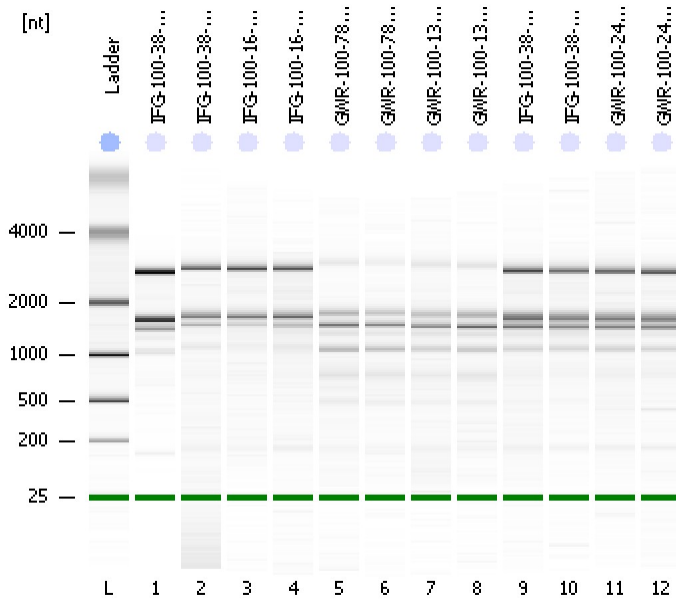


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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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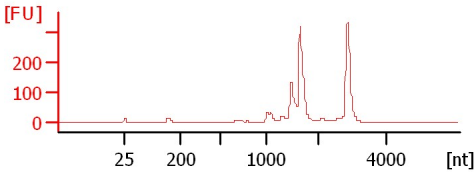
Chip Information:

Chip Lot #:

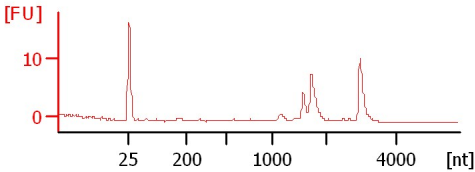
Reagent Kit Lot #:

Chip Comments:

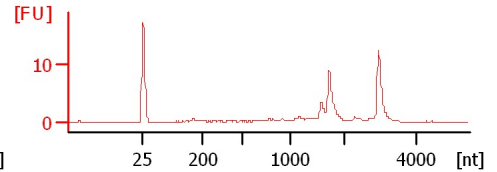
**IFG-100-38-3-TW-A**  
RIN: 2.50



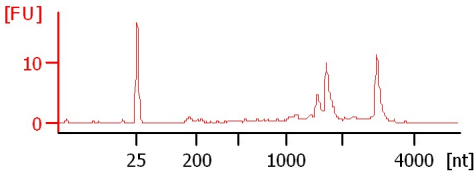
**IFG-100-38-3-TW-B**  
RIN: 4.50



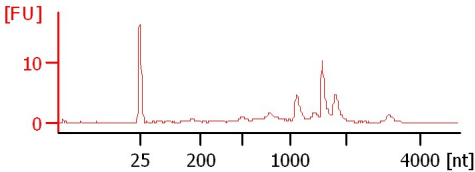
**IFG-100-16-1-TW-B1**  
RIN: 2.50



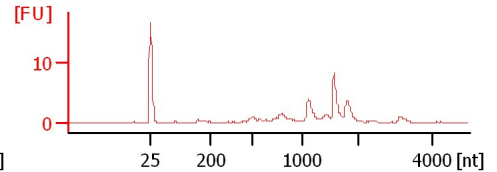
**IFG-100-16-1-TW-B2**  
RIN: 3.60



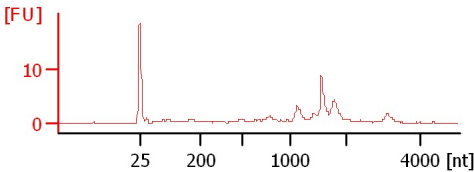
**GWR-100-78-5-NW-C1**  
RIN: 6.80



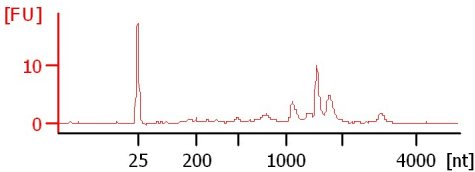
**GWR-100-78-5-NW-C2**  
RIN: 6.70



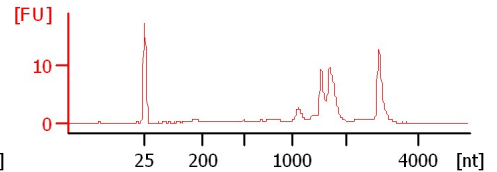
**GWR-100-135-6-NW-D1**  
RIN: 5.50



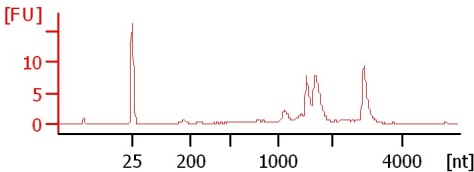
**GWR-100-135-6-NW-D2**  
RIN: 6.50



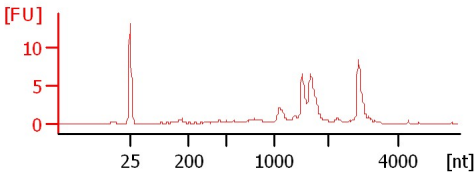
**IFG-100-38-5-NW-E1**  
RIN: 2.60



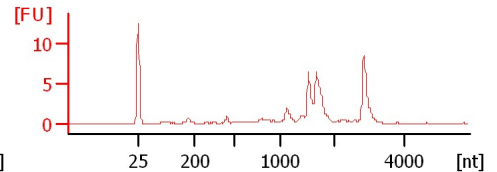
**IFG-100-38-5-NW-E2**  
RIN: 6.60



**GWR-100-245-1-OW-F1**  
RIN: 5.70



**GWR-100-245-1-OW-F2**  
RIN: 2.50



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
IFG-100-38-3-TW-A		✓	RIN: 2.50	
IFG-100-38-3-TW-B		✓	RIN: 4.50	
IFG-100-16-1-TW-B1		✓	RIN: 2.50	
IFG-100-16-1-TW-B2		✓	RIN: 3.60	
GWR-100-78-5-NW-C1		✓	RIN: 6.80	
GWR-100-78-5-NW-C2		✓	RIN: 6.70	
GWR-100-135-6-NW-D1		✓	RIN: 5.50	
GWR-100-135-6-NW-D2		✓	RIN: 6.50	
IFG-100-38-5-NW-E1		✓	RIN: 2.60	
IFG-100-38-5-NW-E2		✓	RIN: 6.60	
GWR-100-245-1-OW-F1		✓	RIN: 5.70	
GWR-100-245-1-OW-F2		✓	RIN: 2.50	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 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

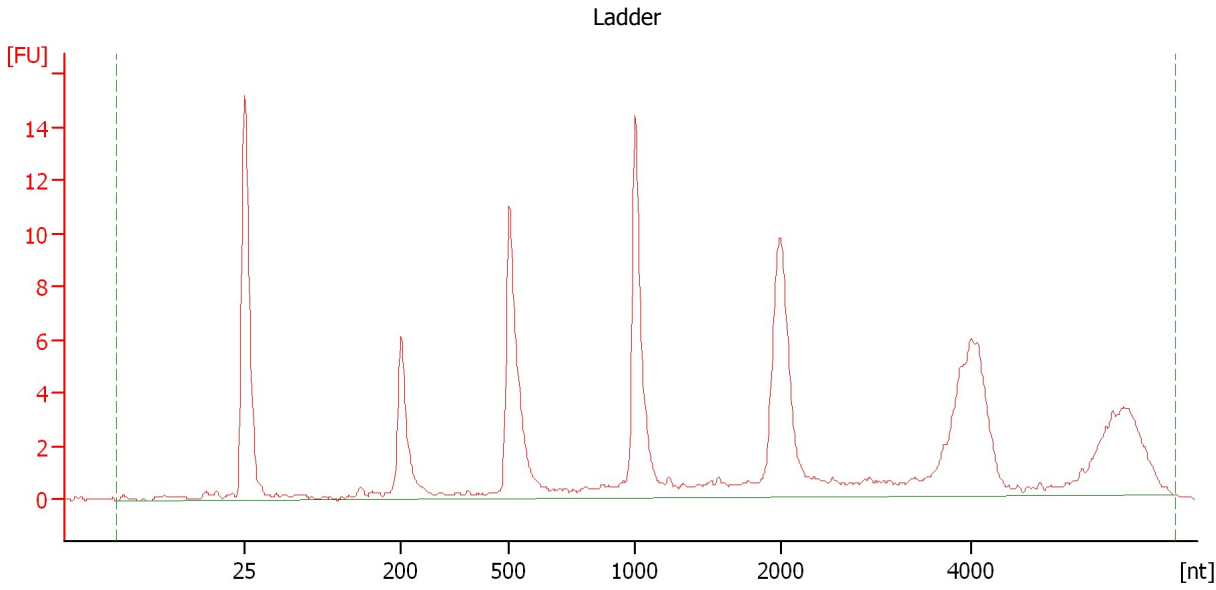
### Ladder

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\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

**Electropherogram Summary**



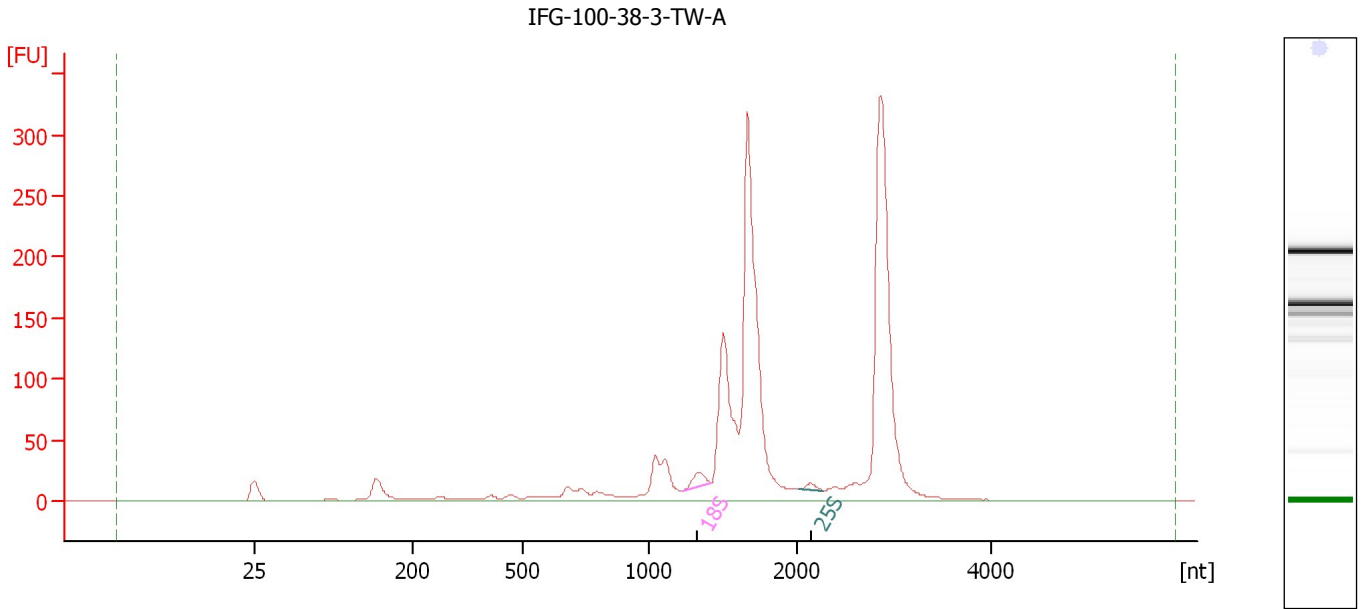
**Overall Results for Ladder**

RNA Area:	115.7	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:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : IFG-100-38-3-TW-A**

RNA Area: 1,473.7      RNA Integrity Number (RIN): 2.5 (B.02.08)  
RNA Concentration: 1,911 ng/μl      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.4      Result Flagging Label: RIN: 2.50

**Fragment table for sample 1 : IFG-100-38-3-TW-A**

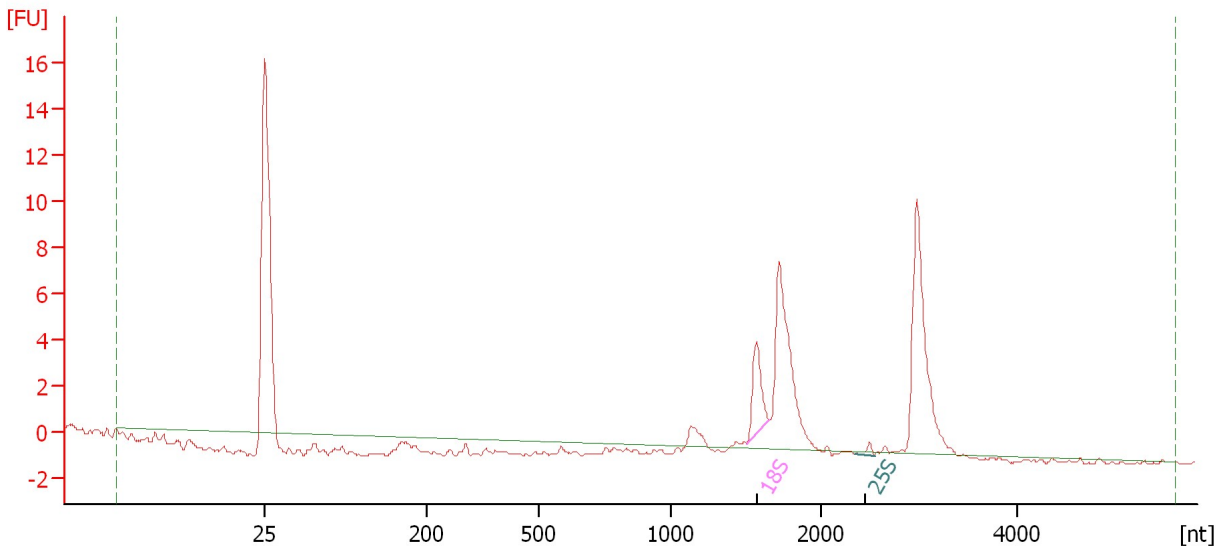
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,226	1,407	15.0	1.0
25S	2,023	2,255	5.4	0.4

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
 Modified: 11/6/2018 5:07:59 PM

**Electropherogram Summary Continued ...**

IFG-100-38-3-TW-B



**Overall Results for sample 2 : IFG-100-38-3-TW-B**

RNA Area: 33.1 RNA Integrity Number (RIN): 4.5 (B.02.08)  
 RNA Concentration: 43 ng/μl Result Flagging Color:   
 rRNA Ratio [25s / 18s]: 0.1 Result Flagging Label: RIN: 4.50

**Fragment table for sample 2 : IFG-100-38-3-TW-B**

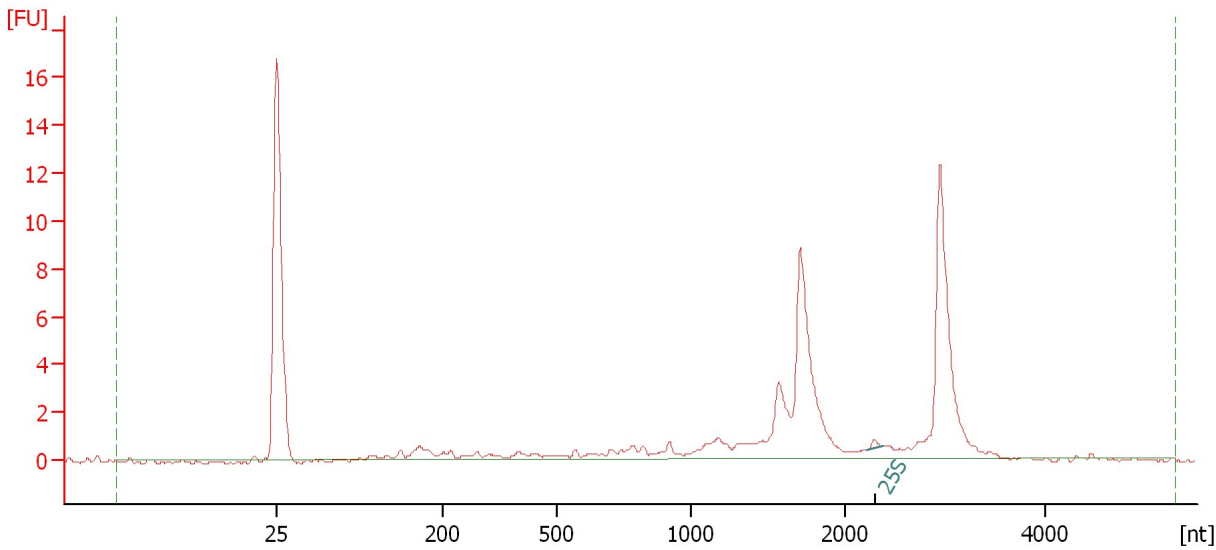
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,506	1,662	3.5	10.6
25S	2,339	2,545	0.3	0.9

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

**Electropherogram Summary Continued ...**

IFG-100-16-1-TW-B1



**Overall Results for sample 3 : IFG-100-16-1-TW-B1**

RNA Area: 49.4                      RNA Integrity Number (RIN): 2.5 (B.02.08)  
RNA Concentration: 64 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.0                      Result Flagging Label: RIN: 2.50

**Fragment table for sample 3 : IFG-100-16-1-TW-B1**

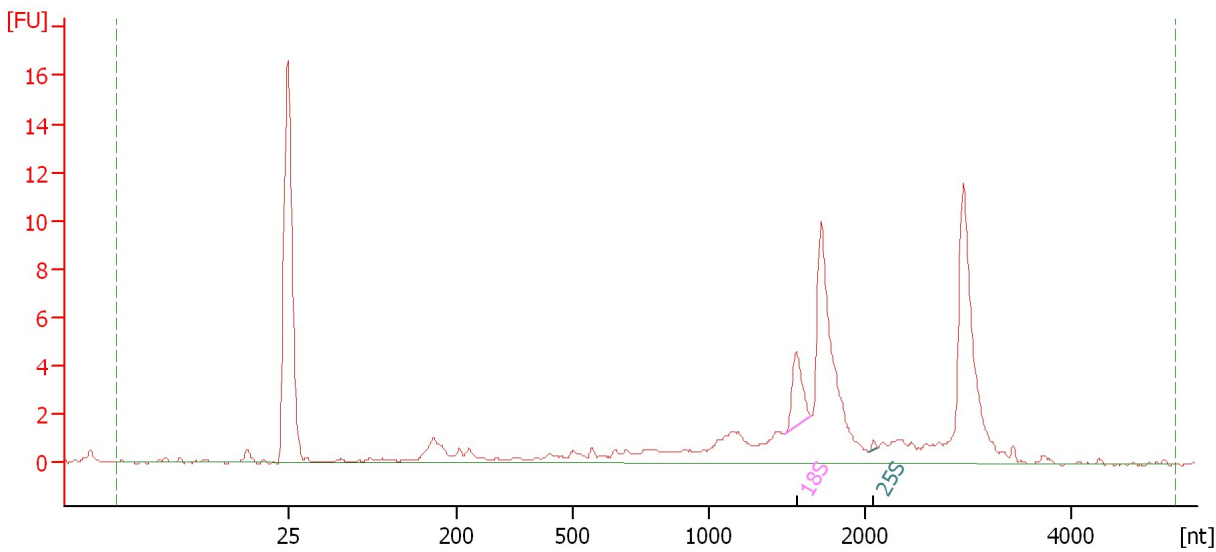
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,228	2,387	0.2	0.5

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

**Electropherogram Summary Continued ...**

IFG-100-16-1-TW-B2



**Overall Results for sample 4 : IFG-100-16-1-TW-B2**

RNA Area: 68.2                      RNA Integrity Number (RIN): 3.6 (B.02.08)  
RNA Concentration: 88 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.0              Result Flagging Label: RIN: 3.60

**Fragment table for sample 4 : IFG-100-16-1-TW-B2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,493	1,657	3.3	4.9
25S	2,028	2,121	0.1	0.2

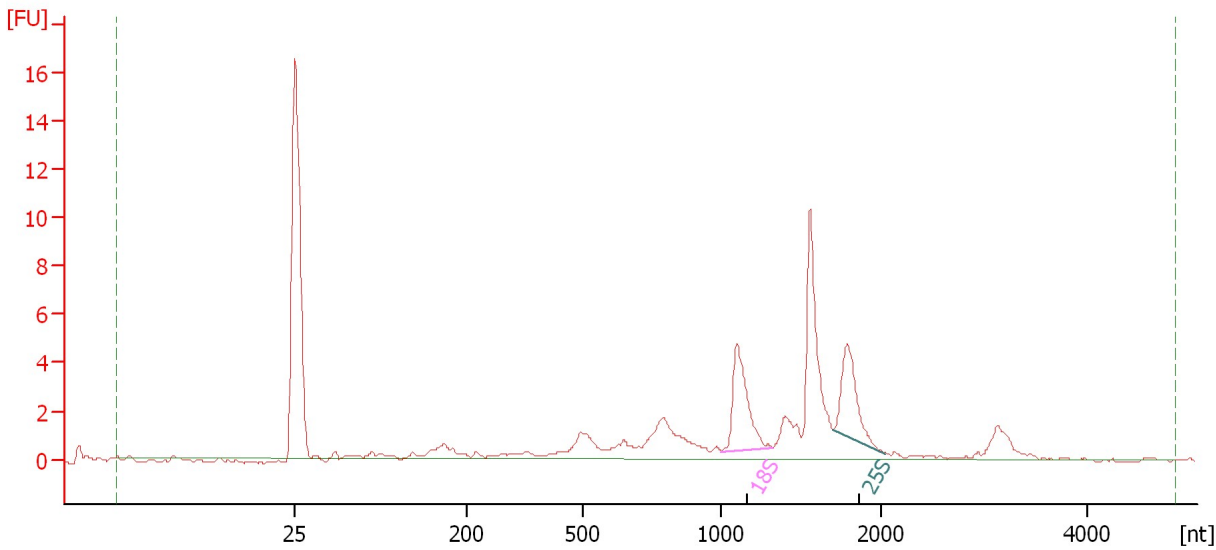


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

**Electropherogram Summary Continued ...**

GWR-100-78-5-NW-C1



**Overall Results for sample 5 : GWR-100-78-5-NW-C1**

RNA Area: 54.6 RNA Integrity Number (RIN): 6.8 (B.02.08)  
RNA Concentration: 71 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN: 6.80

**Fragment table for sample 5 : GWR-100-78-5-NW-C1**

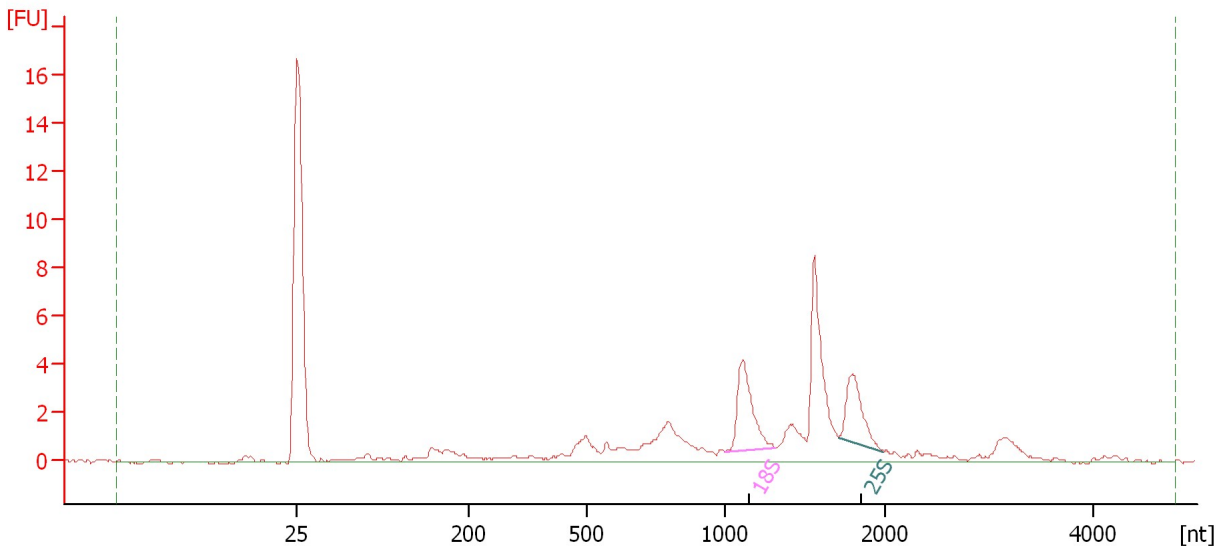
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,002	1,325	6.9	12.7
25S	1,702	2,039	5.8	10.5

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

**Electropherogram Summary Continued ...**

GWR-100-78-5-NW-C2



**Overall Results for sample 6 : GWR-100-78-5-NW-C2**

RNA Area: 54.7 RNA Integrity Number (RIN): 6.7 (B.02.08)  
RNA Concentration: 71 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.7 Result Flagging Label: RIN: 6.70

**Fragment table for sample 6 : GWR-100-78-5-NW-C2**

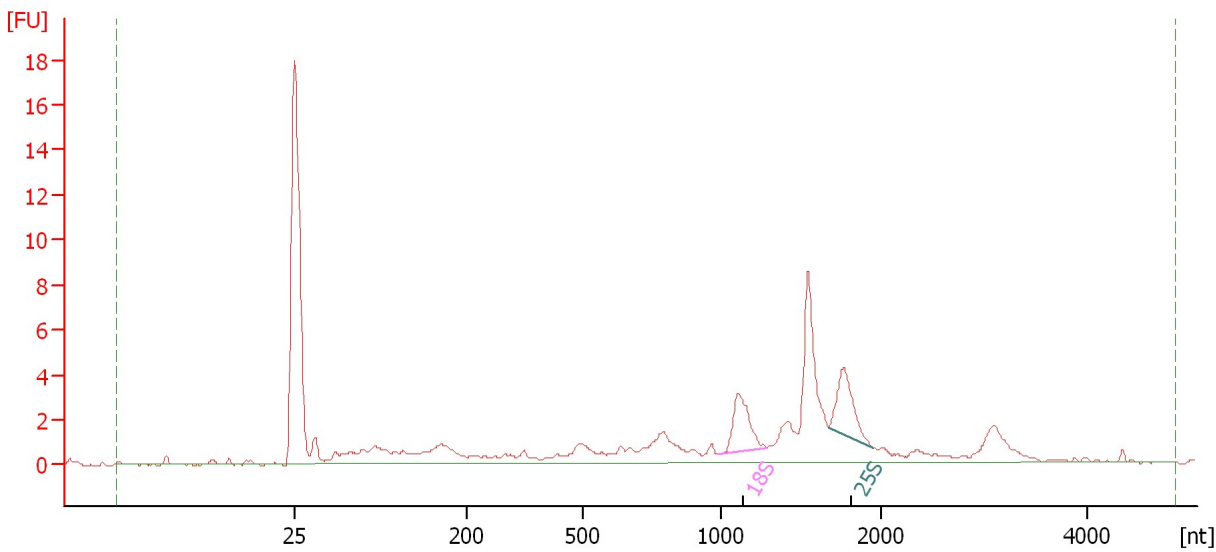
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	999	1,314	5.9	10.9
25S	1,710	1,992	4.4	8.1

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

**Electropherogram Summary Continued ...**

GWR-100-135-6-NW-D1



**Overall Results for sample 7 : GWR-100-135-6-NW-D1**

RNA Area: 65.3 RNA Integrity Number (RIN): 5.5 (B.02.08)  
RNA Concentration: 85 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.1 Result Flagging Label: RIN: 5.50

**Fragment table for sample 7 : GWR-100-135-6-NW-D1**

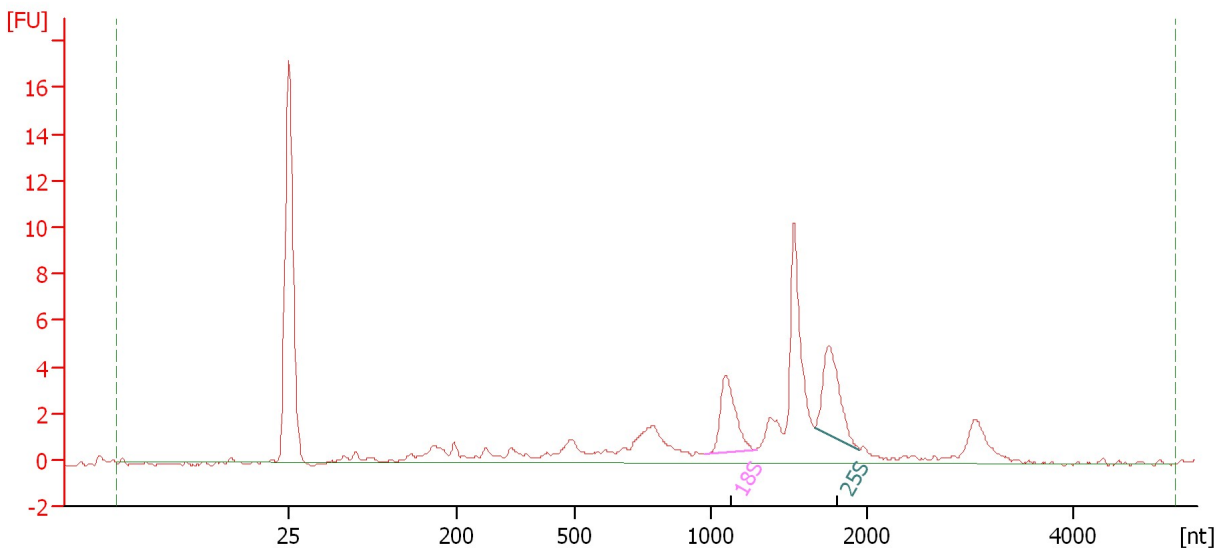
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	993	1,285	4.5	6.9
25S	1,675	1,951	4.8	7.3

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

**Electropherogram Summary Continued ...**

GWR-100-135-6-NW-D2



**Overall Results for sample 8 : GWR-100-135-6-NW-D2**

RNA Area:	61.7	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	80 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]:	1.2	Result Flagging Label:	RIN: 6.50

**Fragment table for sample 8 : GWR-100-135-6-NW-D2**

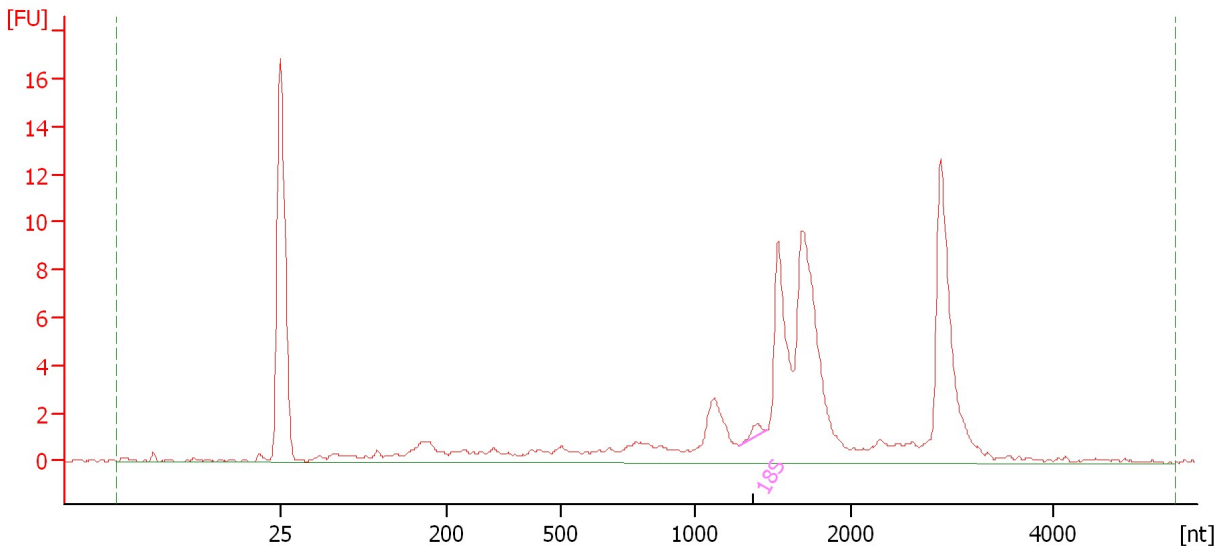
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	982	1,290	5.6	9.1
25S	1,664	1,950	6.5	10.5

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

**Electropherogram Summary Continued ...**

IFG-100-38-5-NW-E1



**Overall Results for sample 9 : IFG-100-38-5-NW-E1**

RNA Area: 92.4                      RNA Integrity Number (RIN): 2.6 (B.02.08)  
RNA Concentration: 120 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.0              Result Flagging Label: RIN: 2.60

**Fragment table for sample 9 : IFG-100-38-5-NW-E1**

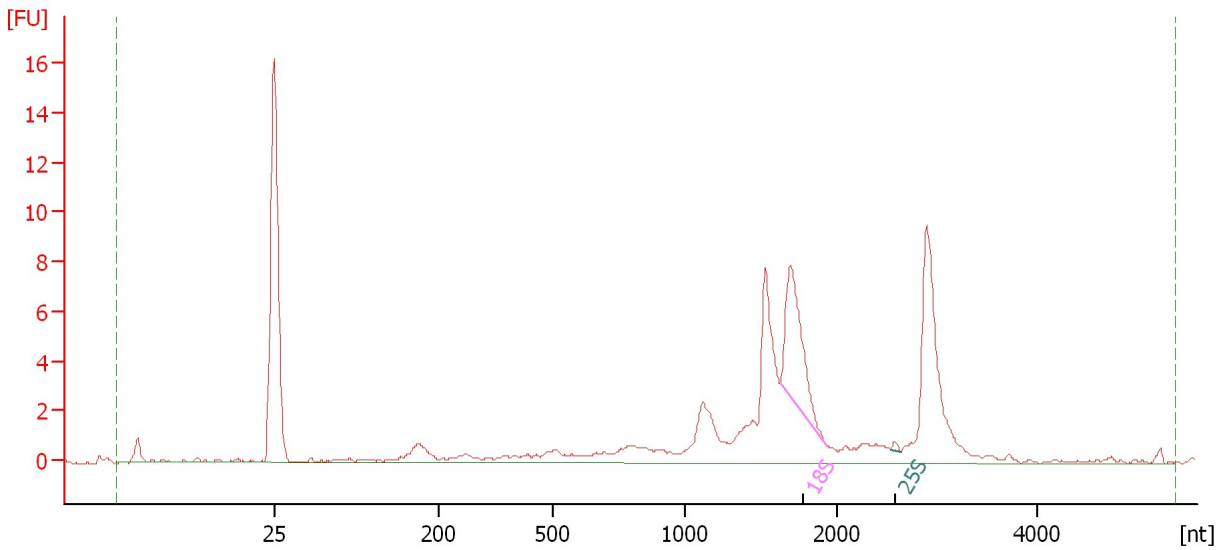
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,285	1,458	0.5	0.6

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

**Electropherogram Summary Continued ...**

IFG-100-38-5-NW-E2



**Overall Results for sample 10 : IFG-100-38-5-NW-E2**

RNA Area: 74.6 RNA Integrity Number (RIN): 6.6 (B.02.08)  
RNA Concentration: 97 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 6.60

**Fragment table for sample 10 : IFG-100-38-5-NW-E2**

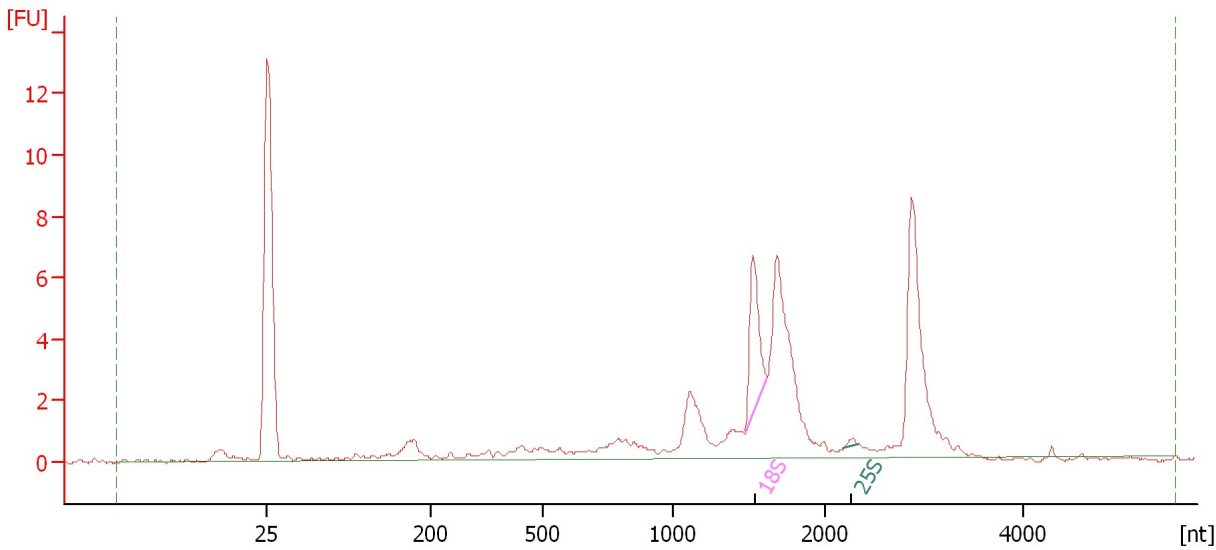
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,626	1,926	9.2	12.3
25S	2,527	2,624	0.1	0.2

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

**Electropherogram Summary Continued ...**

GWR-100-245-1-OW-F1



**Overall Results for sample 11 : GWR-100-245-1-OW-F1**

RNA Area: 58.6 RNA Integrity Number (RIN): 5.7 (B.02.08)  
RNA Concentration: 76 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 5.70

**Fragment table for sample 11 : GWR-100-245-1-OW-F1**

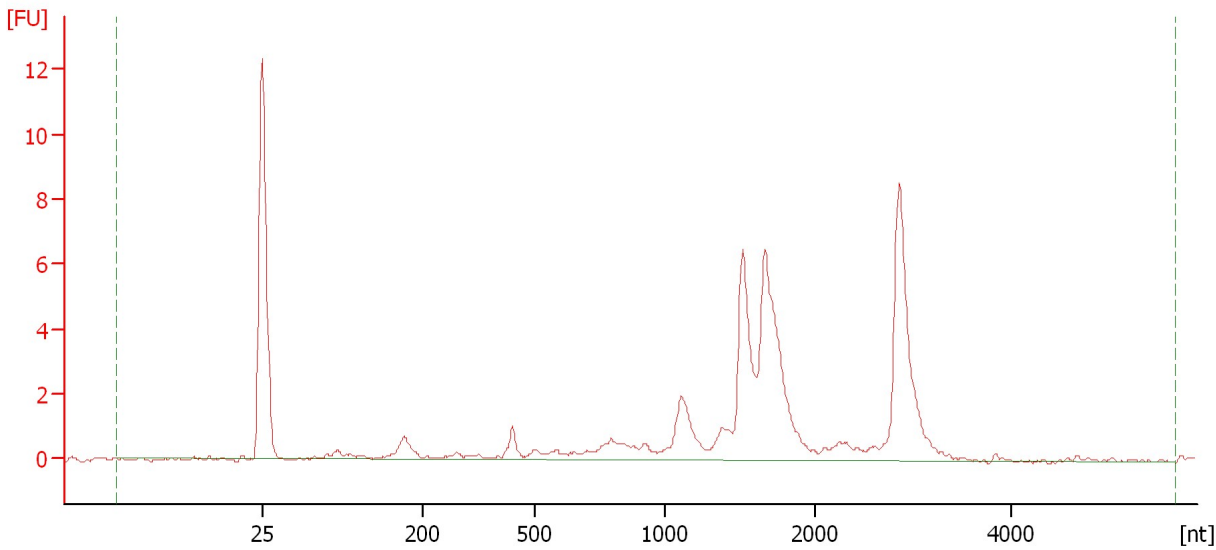
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,465	1,621	4.8	8.2
25S	2,187	2,349	0.2	0.3

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

**Electropherogram Summary Continued ...**

GWR-100-245-1-OW-F2



**Overall Results for sample 12 : GWR-100-245-1-OW-F2**

RNA Area:	53.2	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	69 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:\... bioanalyzer\2100 expert\data\2018-11-06\2018-11-06\_002.xad

Created: 11/6/2018 4:44:14 PM  
Modified: 11/6/2018 5:07:59 PM

**Gel Image**

