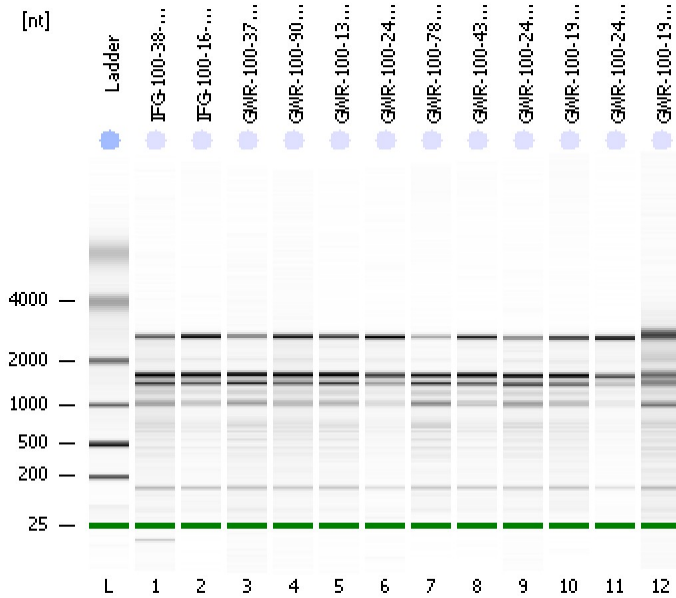


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 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

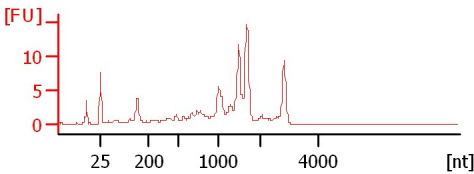
Assay Class: Plant RNA Nano  
Version: 1.3  
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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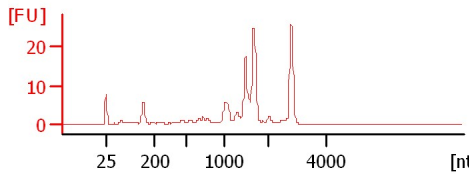
Chip Information:

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

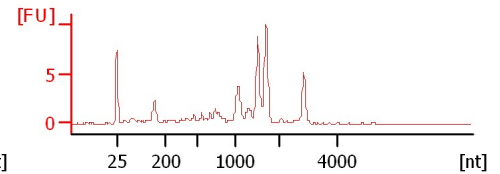
**IFG-100-38-4-NW**  
RIN: 6.30



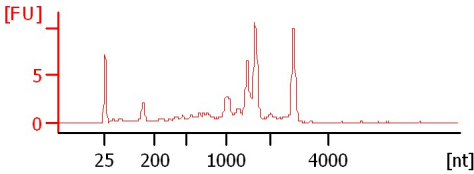
**IFG-100-16-6-NW**  
RIN: 6.80



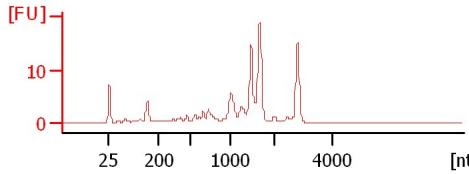
**GWR-100-377-6-NW**  
RIN: 6.40



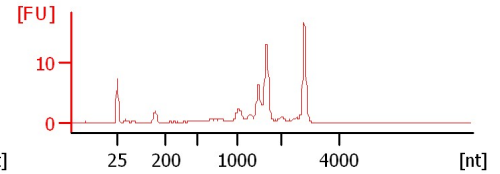
**GWR-100-90-3-OW**  
RIN: 6.70



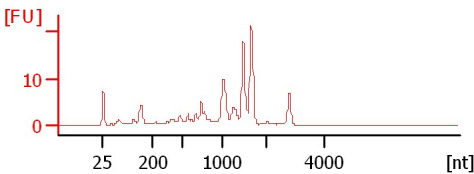
**GWR-100-135-1-TW**  
RIN: 6.40



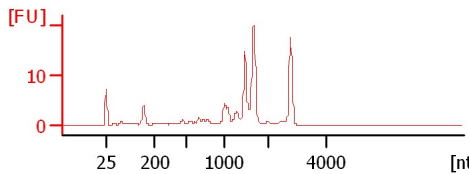
**GWR-100-245-3-OW**  
RIN: 7.50



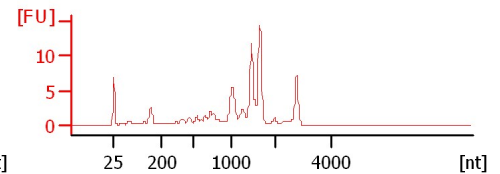
**GWR-100-78-6-NW**  
RIN: 5.70



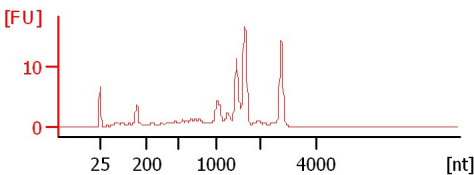
**GWR-100-431-1-TW**  
RIN: 6.70



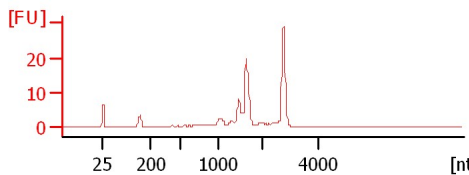
**GWR-100-245-5-NW**  
RIN: 6.20



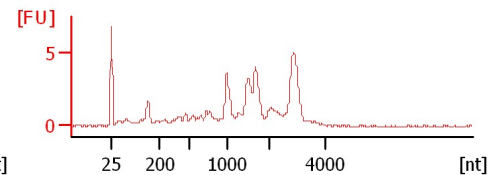
**GWR-100-19-2-TW**  
RIN: 6.50



**GWR-100-245-1-TW**  
RIN: 8



**GWR-100-19-3-OW**  
RIN: 7.20



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
 Modified: 8/17/2018 4:27:03 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
IFG-100-38-4-NW		✓	RIN: 6.30	
IFG-100-16-6-NW		✓	RIN: 6.80	
GWR-100-377-6-NW		✓	RIN: 6.40	
GWR-100-90-3-OW		✓	RIN: 6.70	
GWR-100-135-1-TW		✓	RIN: 6.40	
GWR-100-245-3-OW		✓	RIN: 7.50	
GWR-100-78-6-NW		✓	RIN: 5.70	
GWR-100-431-1-TW		✓	RIN: 6.70	
GWR-100-245-5-NW		✓	RIN: 6.20	
GWR-100-19-2-TW		✓	RIN: 6.50	
GWR-100-245-1-TW		✓	RIN:8	
GWR-100-19-3-OW		✓	RIN: 7.20	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 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

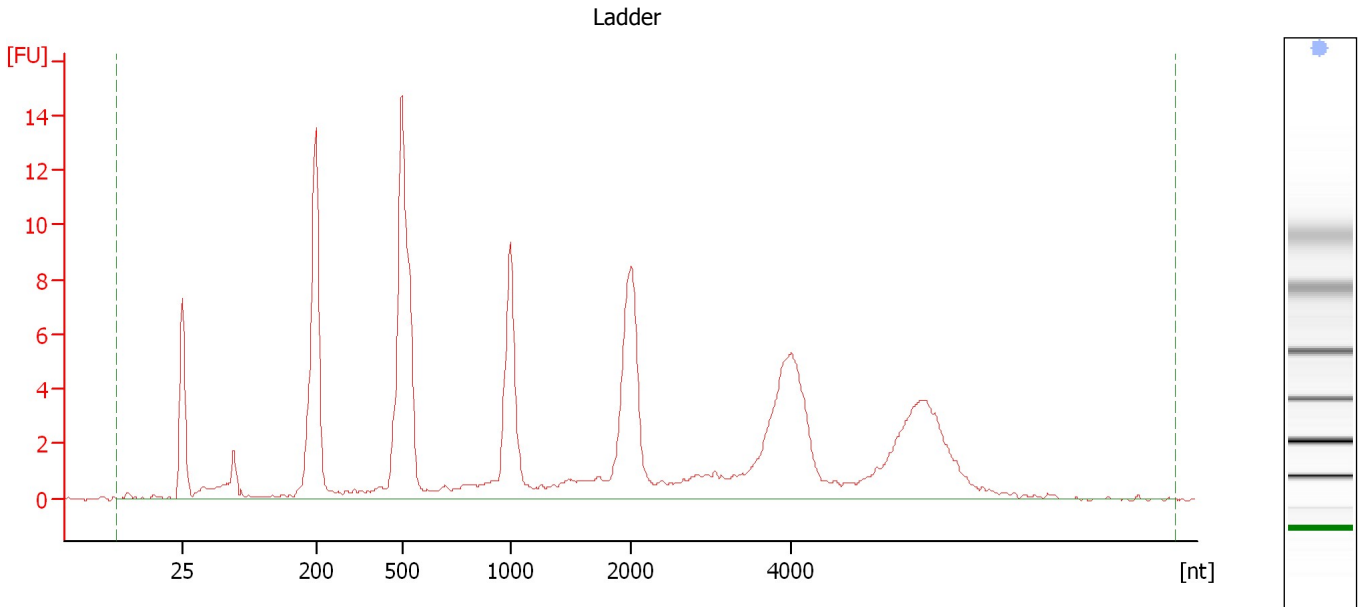
### Ladder

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

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 PM

**Electropherogram Summary**



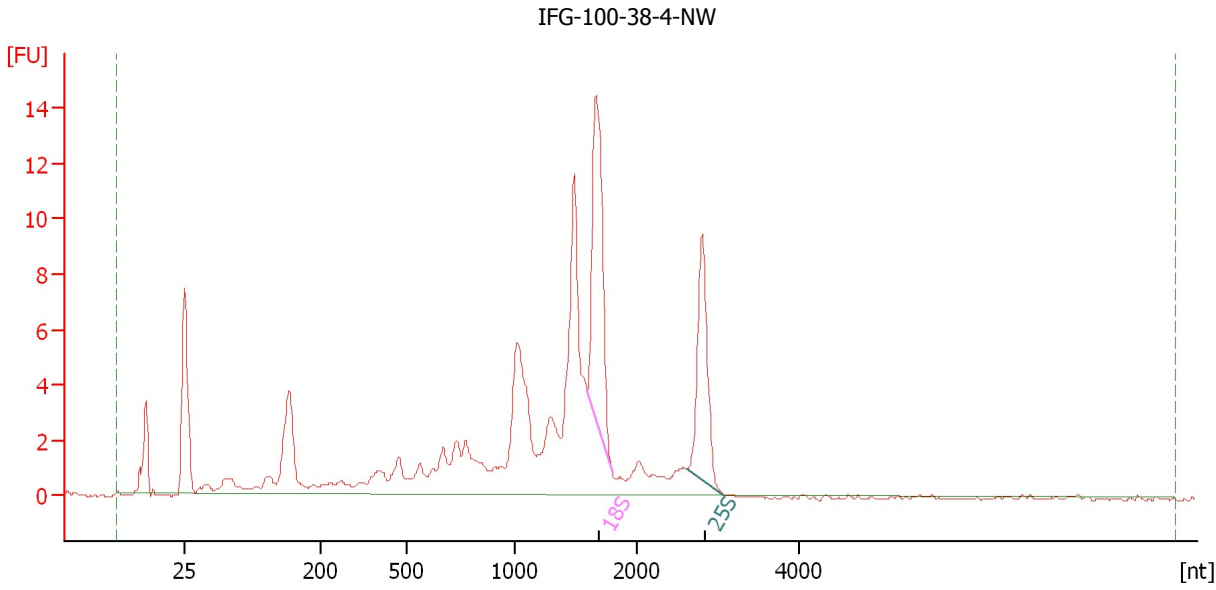
**Overall Results for Ladder**

RNA Area:	143.7	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\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 1 : IFG-100-38-4-NW**

Height Threshold [FU] : 6

**Overall Results for sample 1 : IFG-100-38-4-NW**

RNA Area: 114.1                      RNA Integrity Number (RIN): 6.3 (B.02.08)  
RNA Concentration: 119 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.7              Result Flagging Label: RIN: 6.30

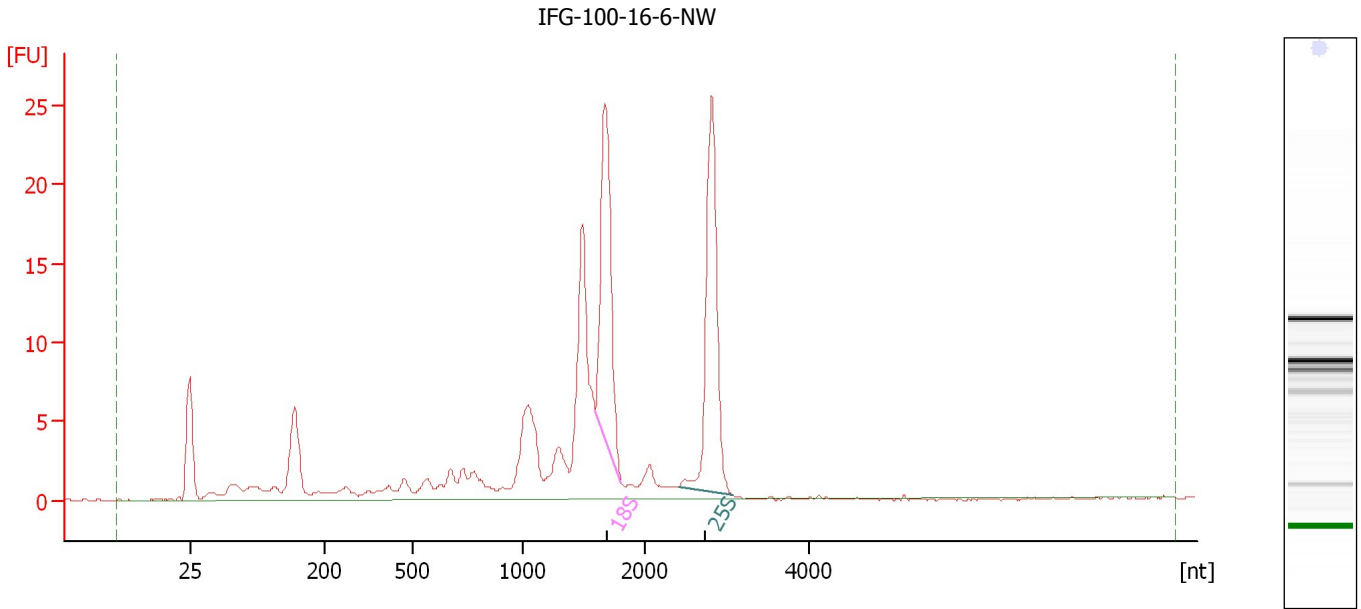
**Fragment table for sample 1 : IFG-100-38-4-NW**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,588	1,799	15.2	13.3
25S	2,625	3,075	10.1	8.8

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : IFG-100-16-6-NW**

RNA Area: 165.1 RNA Integrity Number (RIN): 6.8 (B.02.08)  
RNA Concentration: 172 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.1 Result Flagging Label: RIN: 6.80

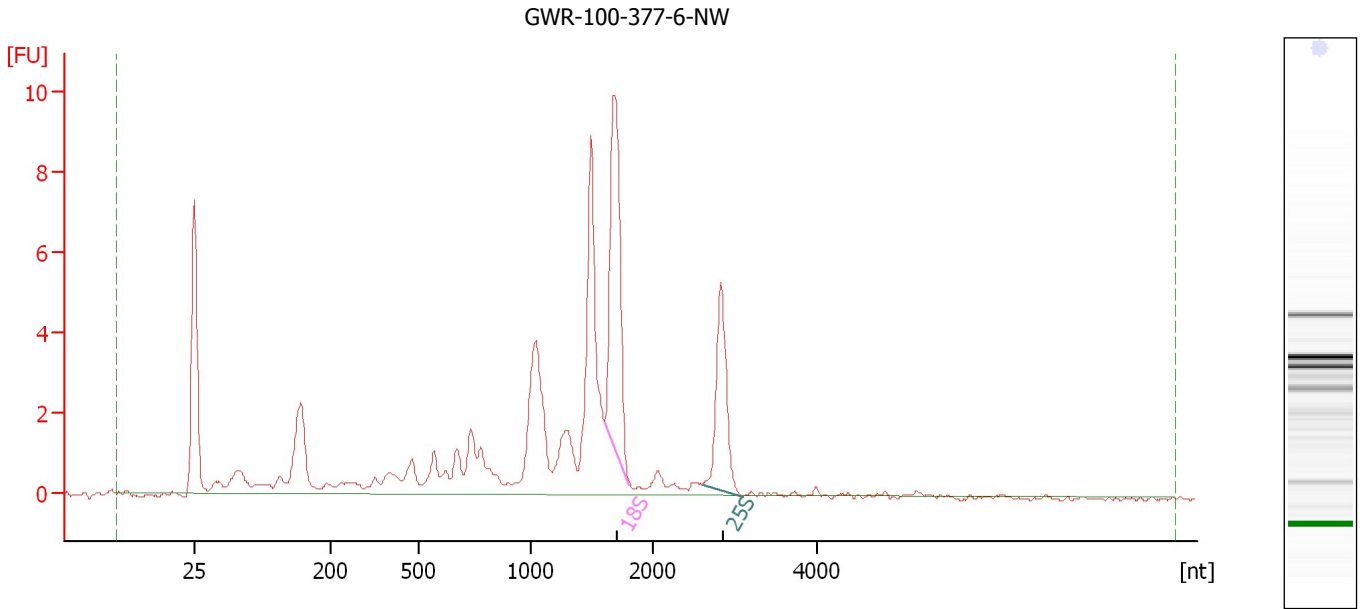
**Fragment table for sample 2 : IFG-100-16-6-NW**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,594	1,803	28.1	17.1
25S	2,413	3,082	30.2	18.3

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : GWR-100-377-6-NW**

RNA Area: 68.1 RNA Integrity Number (RIN): 6.4 (B.02.08)  
RNA Concentration: 71 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.5 Result Flagging Label: RIN: 6.40

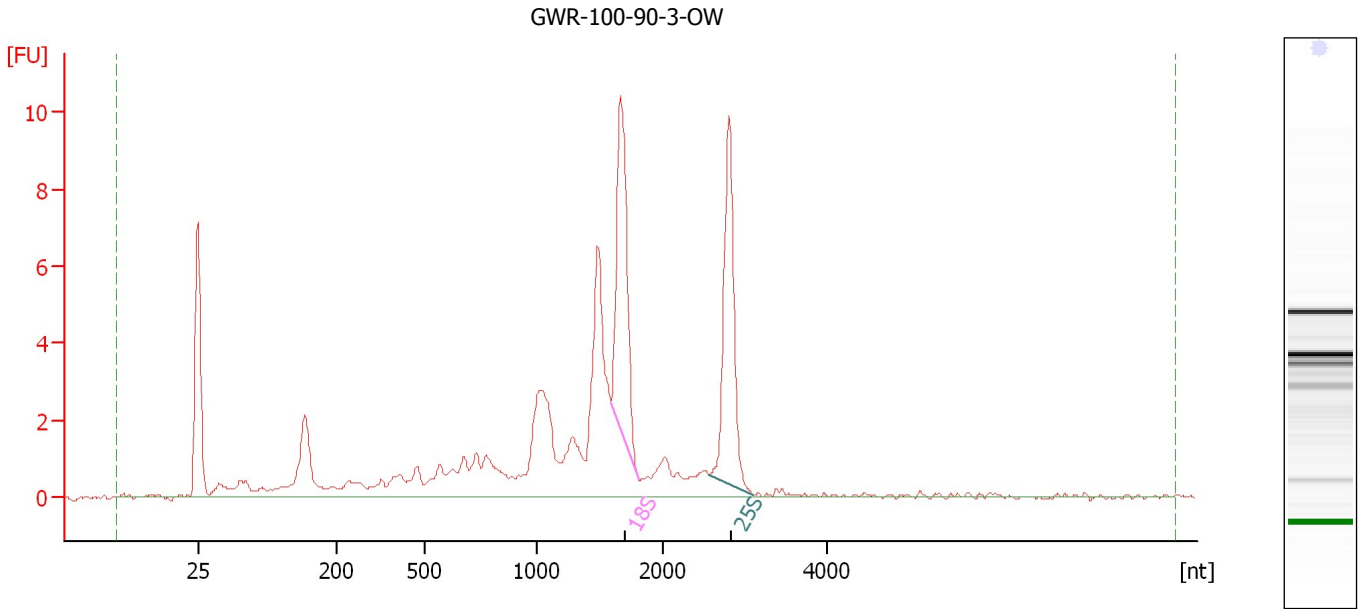
**Fragment table for sample 3 : GWR-100-377-6-NW**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,600	1,807	10.9	16.0
25S	2,595	3,077	5.9	8.7

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : GWR-100-90-3-OW**

RNA Area: 77.0 RNA Integrity Number (RIN): 6.7 (B.02.08)  
RNA Concentration: 80 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.0 Result Flagging Label: RIN: 6.70

**Fragment table for sample 4 : GWR-100-90-3-OW**

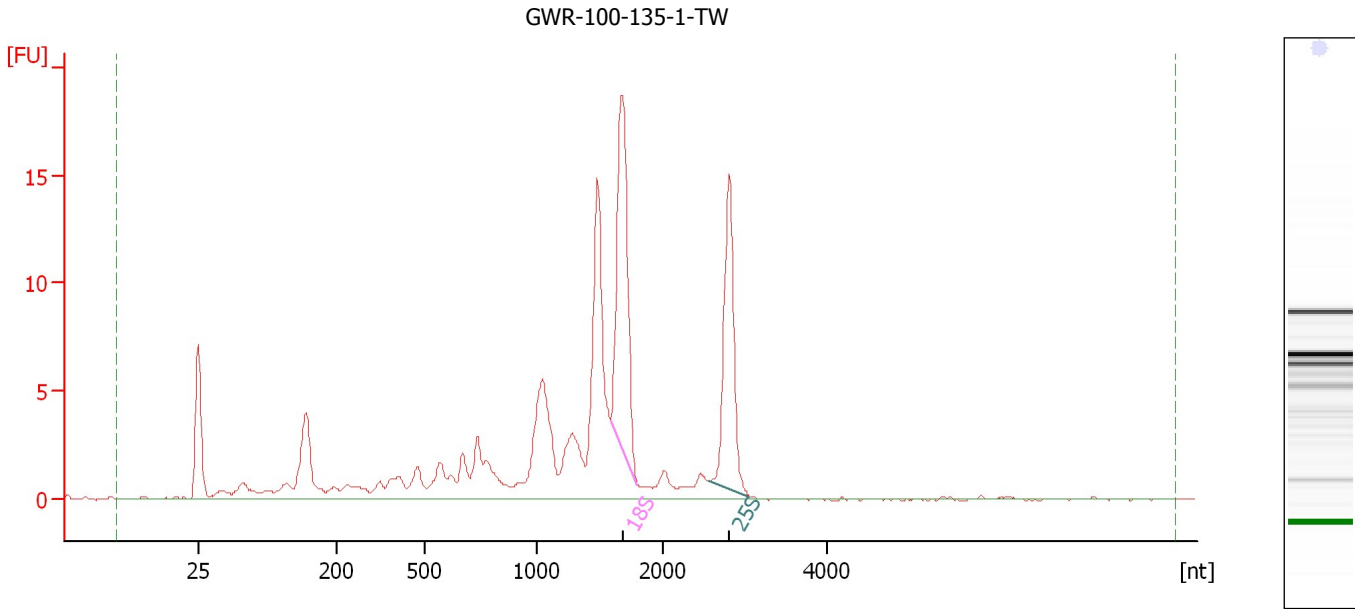
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,597	1,811	11.2	14.5
25S	2,568	3,097	10.6	13.8



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : GWR-100-135-1-TW**

RNA Area: 127.6 RNA Integrity Number (RIN): 6.4 (B.02.08)  
RNA Concentration: 133 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.7 Result Flagging Label: RIN: 6.40

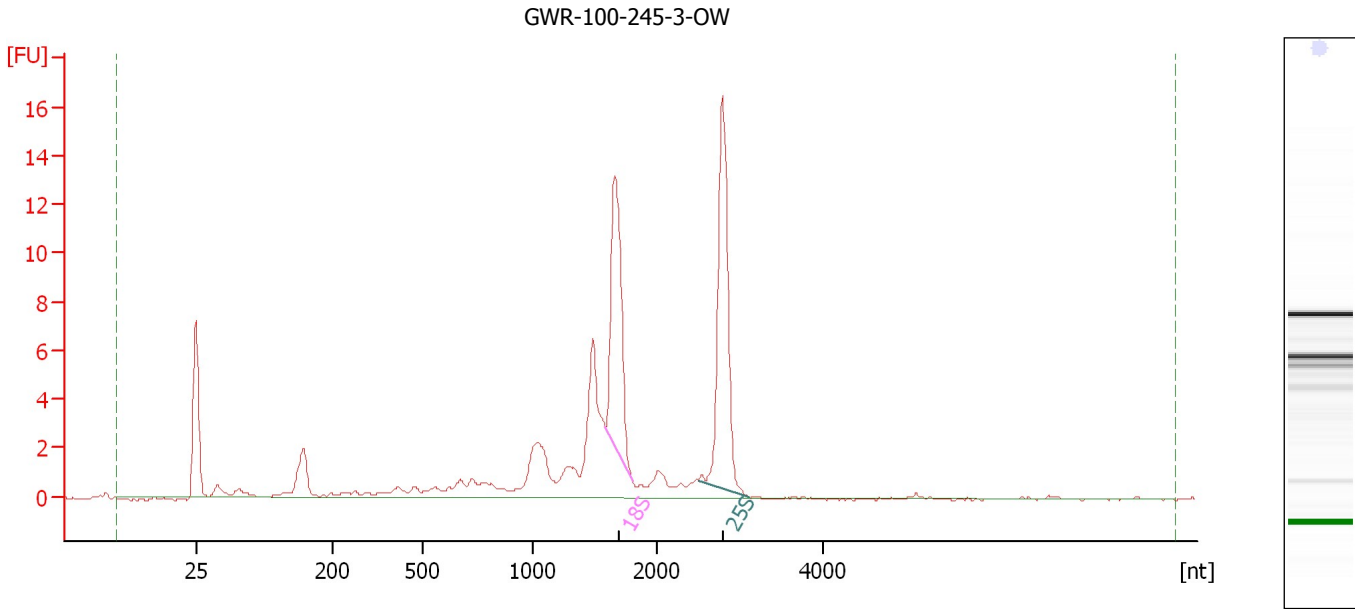
**Fragment table for sample 5 : GWR-100-135-1-TW**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,589	1,803	21.7	17.0
25S	2,568	3,058	16.0	12.6

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : GWR-100-245-3-OW**

RNA Area: 80.1 RNA Integrity Number (RIN): 7.5 (B.02.08)  
RNA Concentration: 84 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN: 7.50

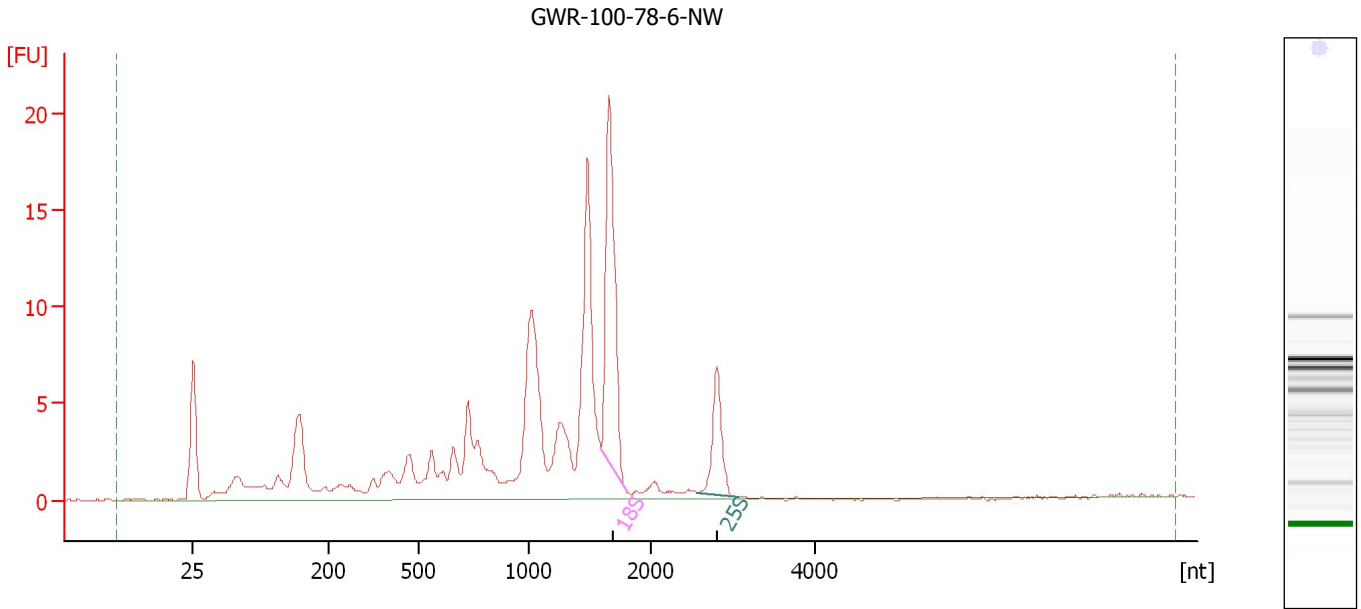
**Fragment table for sample 6 : GWR-100-245-3-OW**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,577	1,792	14.3	17.8
25S	2,491	3,113	17.8	22.2

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : GWR-100-78-6-NW**

RNA Area: 143.2 RNA Integrity Number (RIN): 5.7 (B.02.08)  
RNA Concentration: 149 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.3 Result Flagging Label: RIN: 5.70

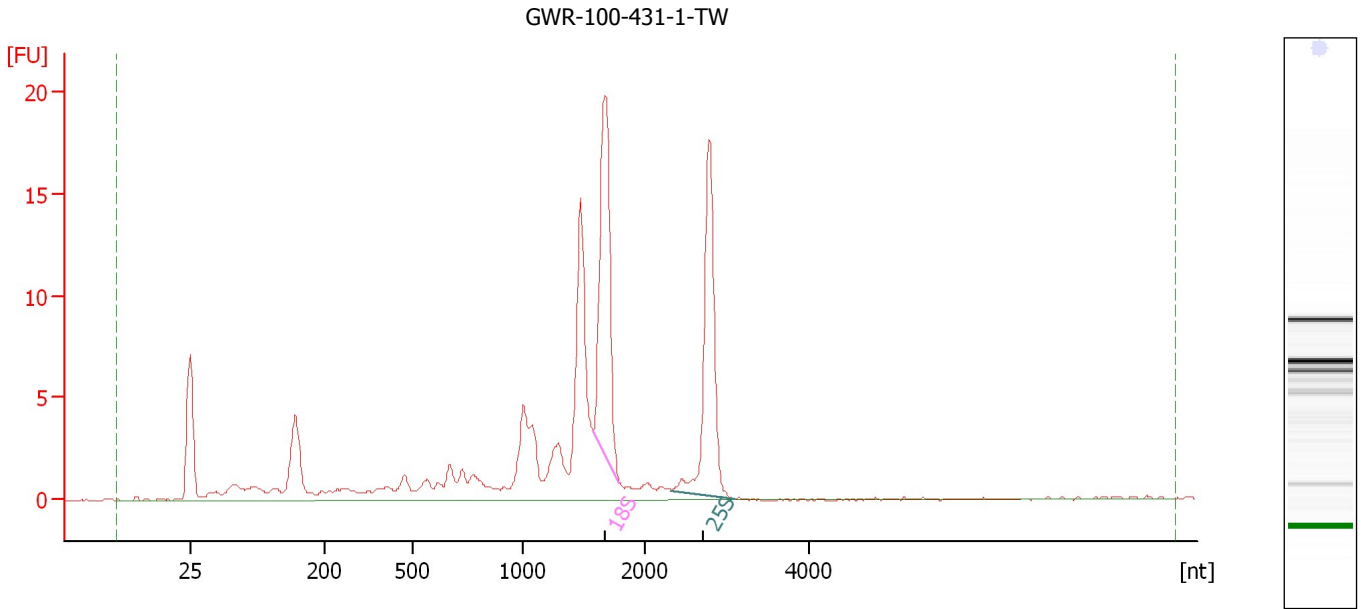
**Fragment table for sample 7 : GWR-100-78-6-NW**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,590	1,798	21.3	14.9
25S	2,556	3,065	7.1	5.0

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : GWR-100-431-1-TW**

RNA Area: 120.4 RNA Integrity Number (RIN): 6.7 (B.02.08)  
RNA Concentration: 126 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN: 6.70

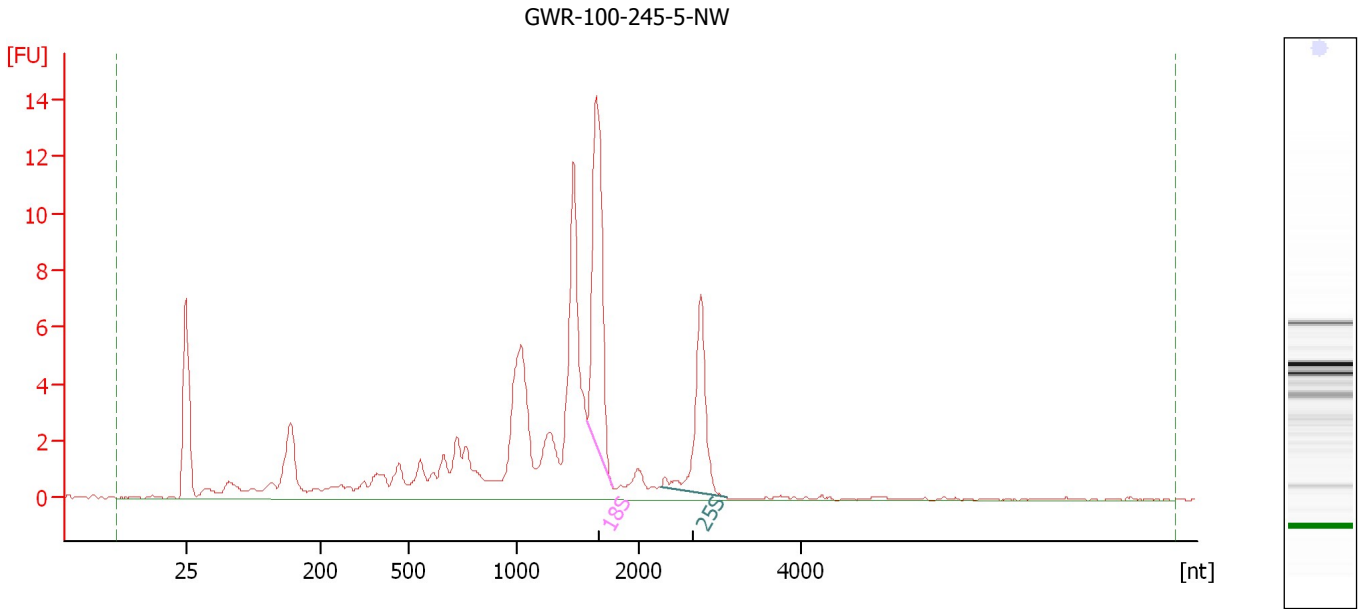
**Fragment table for sample 8 : GWR-100-431-1-TW**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,577	1,786	23.1	19.2
25S	2,321	3,109	19.6	16.3

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : GWR-100-245-5-NW**

RNA Area:	99.5	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	104 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]:	0.6	Result Flagging Label:	RIN: 6.20

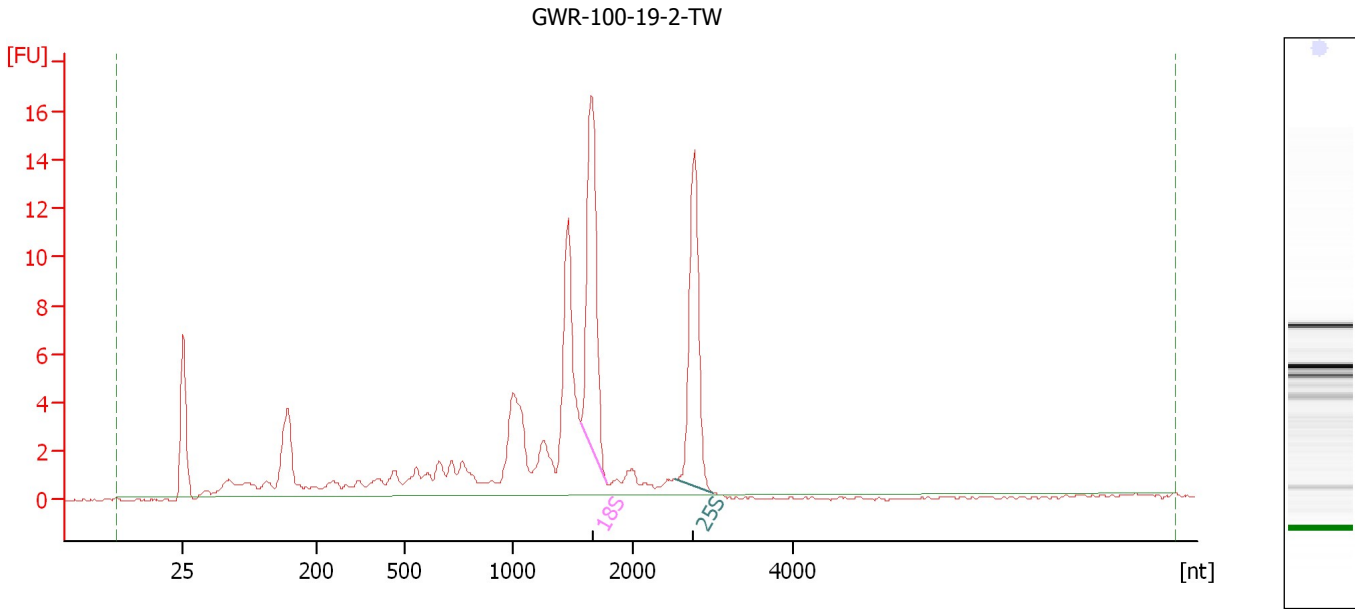
**Fragment table for sample 9 : GWR-100-245-5-NW**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,572	1,783	15.0	15.1
25S	2,267	3,074	8.8	8.8

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : GWR-100-19-2-TW**

RNA Area: 107.0 RNA Integrity Number (RIN): 6.5 (B.02.08)  
RNA Concentration: 112 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN: 6.50

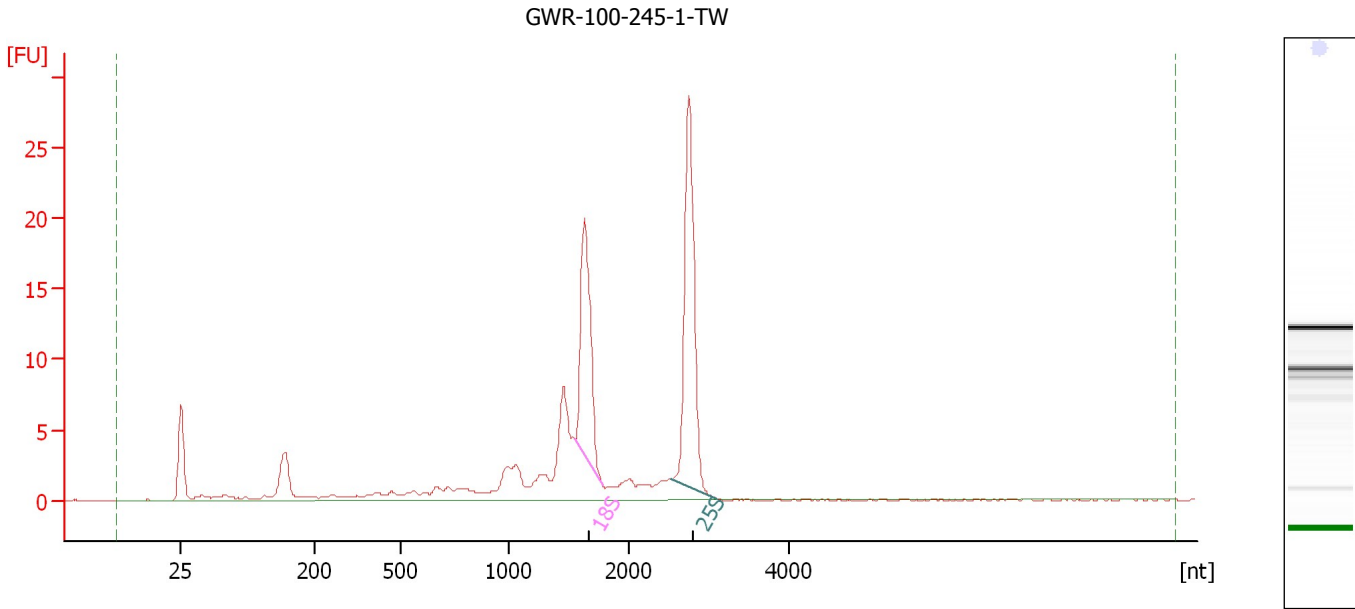
**Fragment table for sample 10 : GWR-100-19-2-TW**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	1,779	18.5	17.3
25S	2,519	2,998	14.8	13.8

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 117.8 RNA Integrity Number (RIN): 8 (B.02.08)  
RNA Concentration: 123 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.5 Result Flagging Label: RIN:8

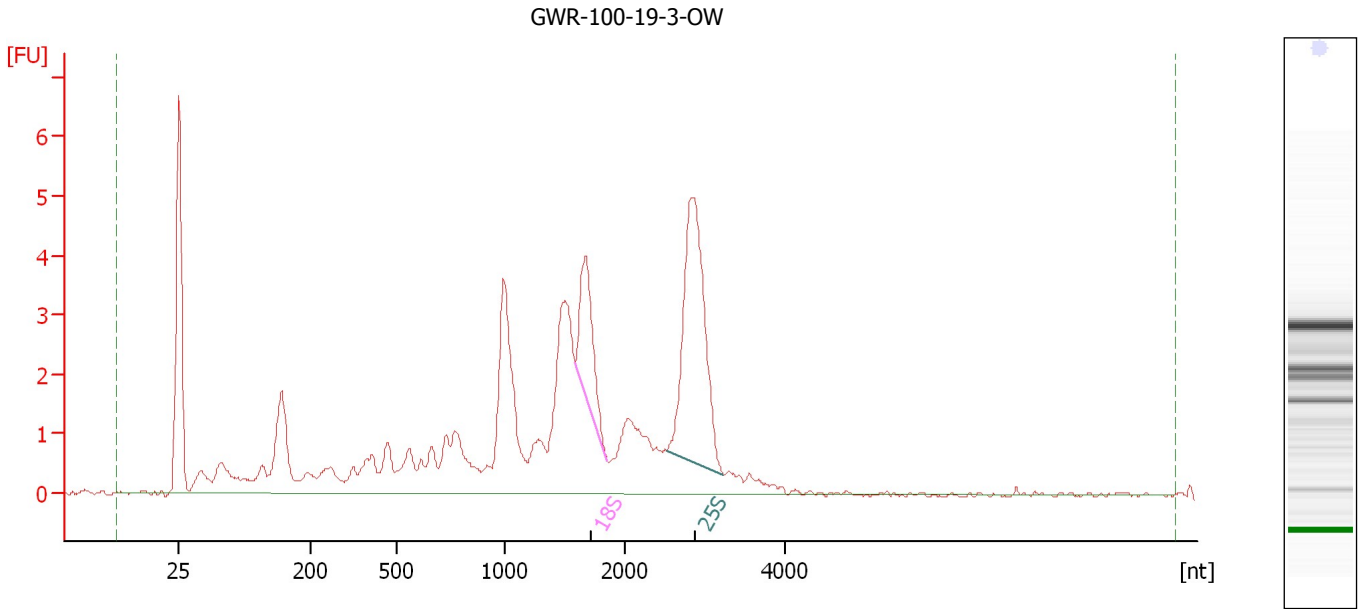
**Fragment table for sample 11 : GWR-100-245-1-TW**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,555	1,777	21.1	17.9
25S	2,533	3,094	30.9	26.2

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : GWR-100-19-3-OW**

RNA Area: 68.9 RNA Integrity Number (RIN): 7.2 (B.02.08)  
RNA Concentration: 72 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.9 Result Flagging Label: RIN: 7.20

**Fragment table for sample 12 : GWR-100-19-3-OW**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,588	1,855	3.8	5.5
25S	2,520	3,245	11.0	16.0



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-17\2018-08-17\_001.xad

Created: 8/17/2018 4:03:10 PM  
Modified: 8/17/2018 4:27:03 PM

**Gel Image**

