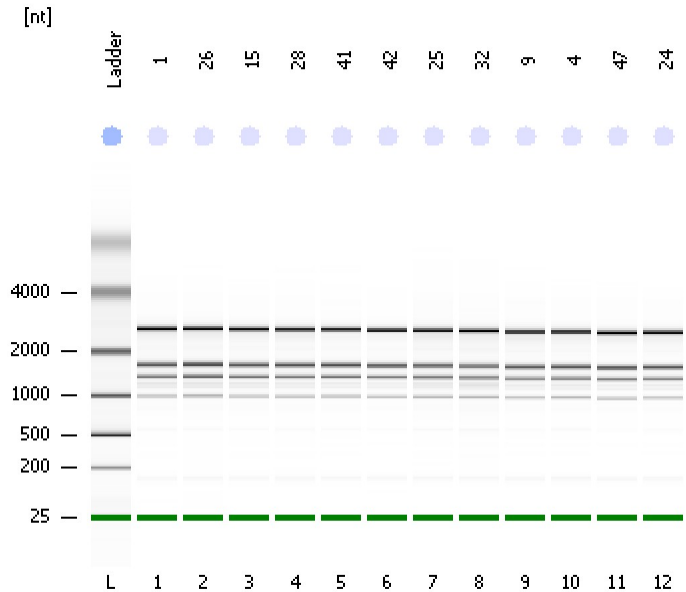


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
Modified: 6/19/2018 12:46:34 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:



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
 Modified: 6/19/2018 12:46:34 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
1		✓	RIN: 7.80	
26		✓	RIN: 7.40	
15		✓	RIN: 7.80	
28		✓	RIN: 7.70	
41		✓	RIN: 7.70	
42		✓	RIN: 7.90	
25		✓	RIN: 7.70	
32		✓	RIN: 7.70	
9		✓	RIN: 7.90	
4		✓	RIN: 7.70	
47		✓	RIN: 7.80	
24		✓	RIN: 7.80	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
Modified: 6/19/2018 12:46:34 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

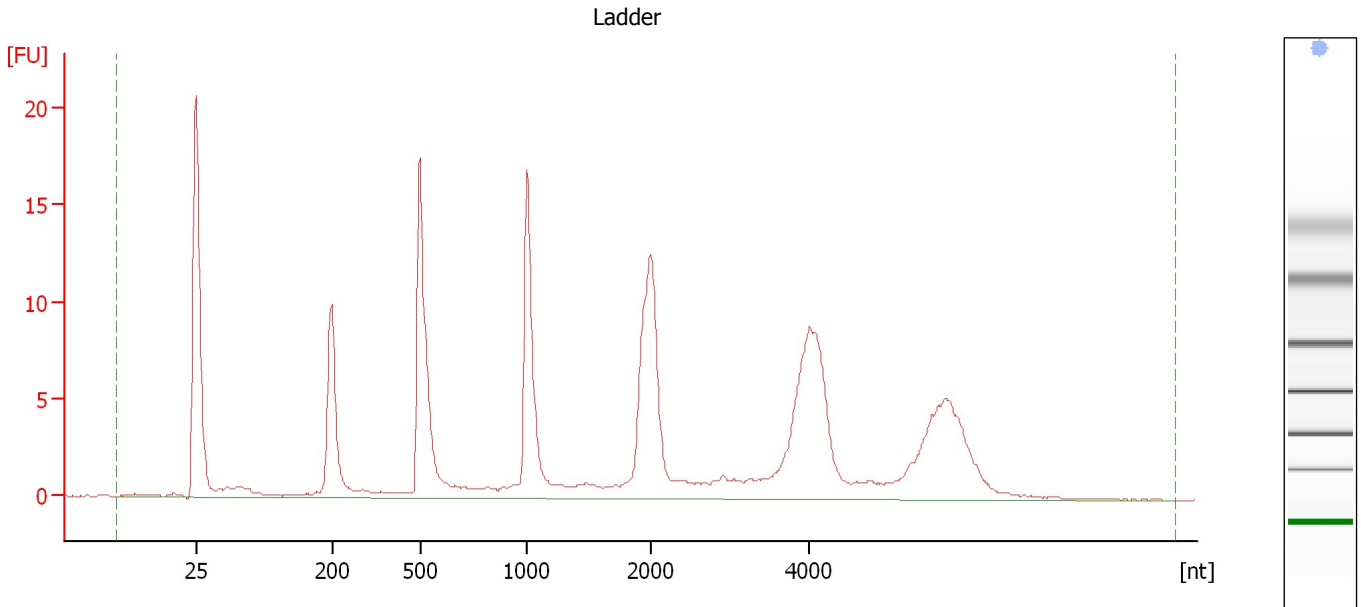
### Ladder

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\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
Modified: 6/19/2018 12:46:34 PM

**Electropherogram Summary**



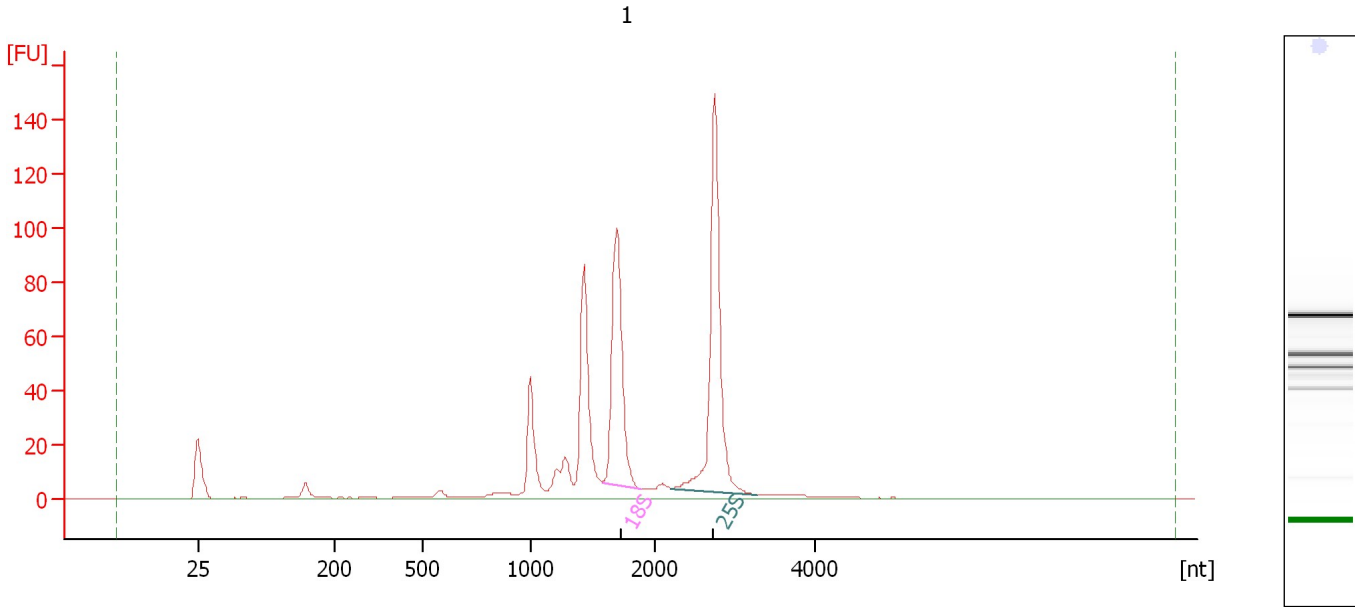
**Overall Results for Ladder**

RNA Area:	172.1	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
Modified: 6/19/2018 12:46:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1**

RNA Area:	562.1	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	490 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]:	1.4	Result Flagging Label:	RIN: 7.80

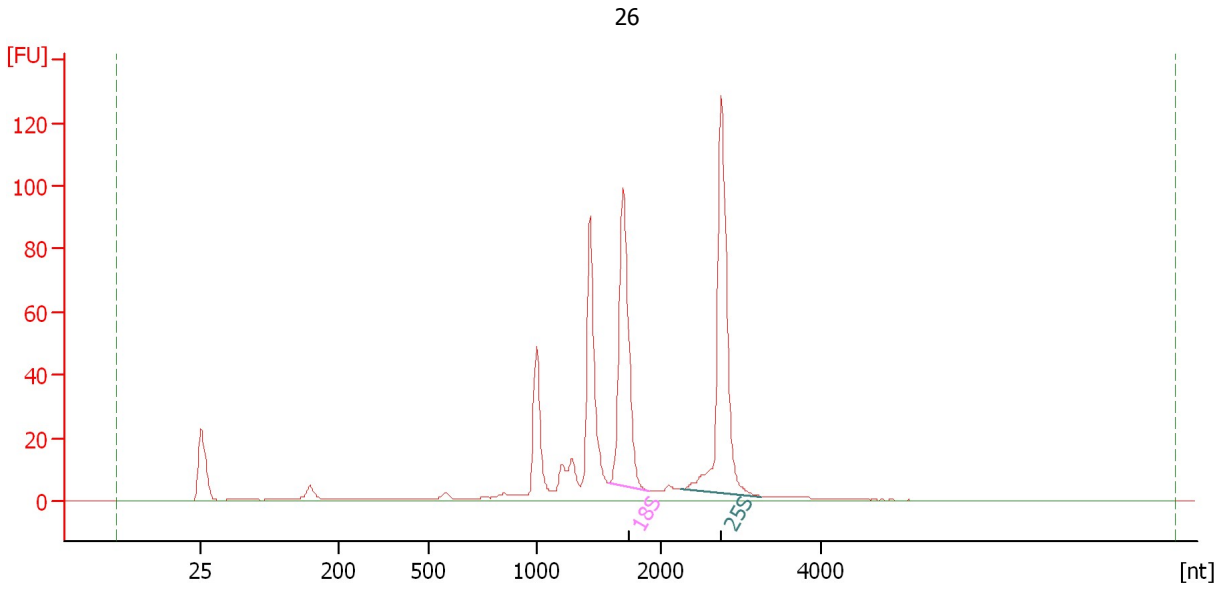
**Fragment table for sample 1 : 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,577	1,888	118.2	21.0
25S	2,216	3,271	165.1	29.4

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 26**

RNA Area:	528.9	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	461 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: 7.40

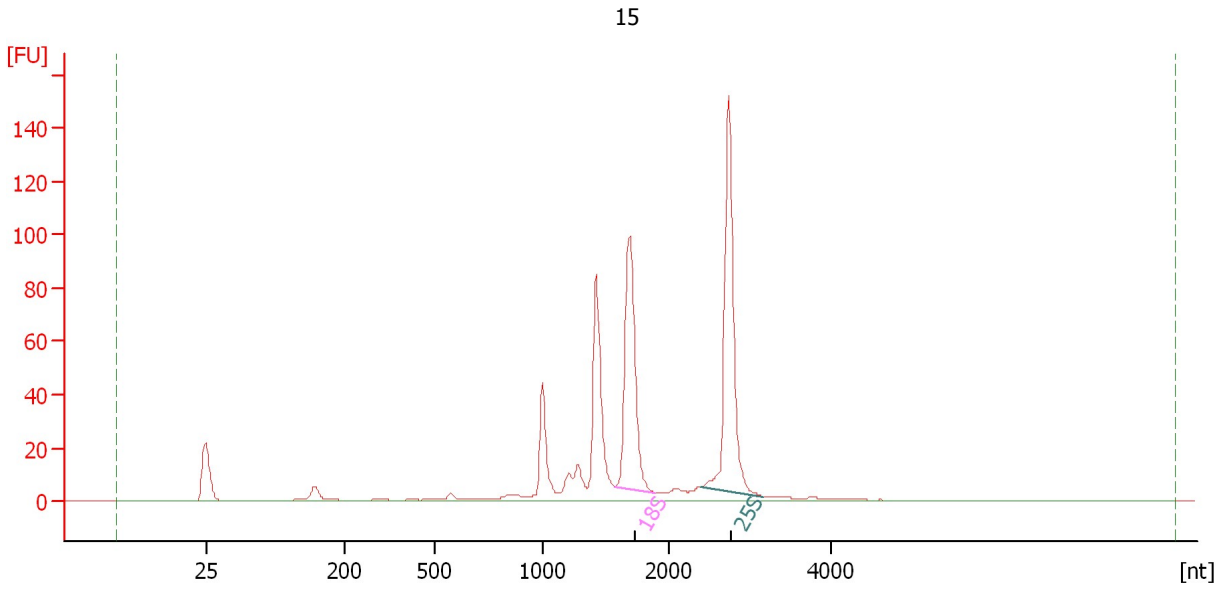
**Fragment table for sample 2 : 26**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,590	1,908	114.4	21.6
25S	2,257	3,253	138.3	26.2

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
Modified: 6/19/2018 12:46:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 15**

RNA Area: 536.8                      RNA Integrity Number (RIN): 7.8 (B.02.08)  
RNA Concentration: 468 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.3                      Result Flagging Label: RIN: 7.80

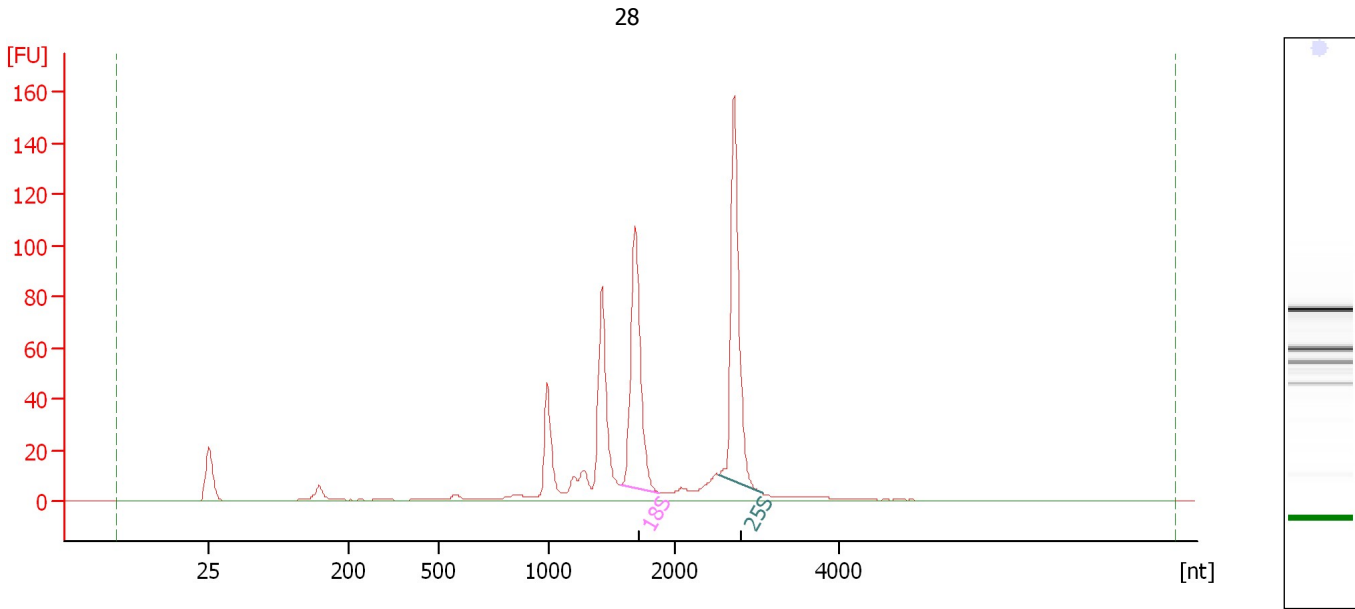
**Fragment table for sample 3 : 15**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	1,895	116.8	21.7
25S	2,404	3,168	146.8	27.3

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
Modified: 6/19/2018 12:46:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 28**

RNA Area: 564.2                      RNA Integrity Number (RIN): 7.7 (B.02.08)  
RNA Concentration: 492 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.1                      Result Flagging Label: RIN: 7.70

**Fragment table for sample 4 : 28**

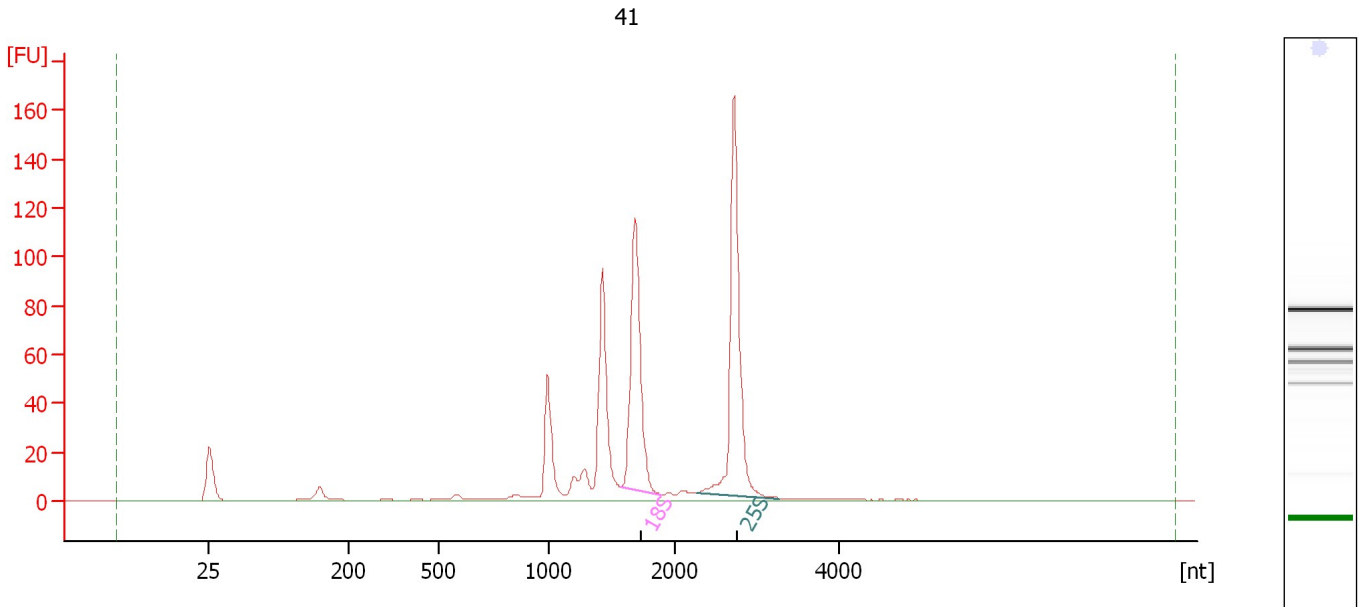
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	1,881	125.6	22.3
25S	2,536	3,073	140.1	24.8



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
Modified: 6/19/2018 12:46:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 41**

RNA Area: 572.4                      RNA Integrity Number (RIN): 7.7 (B.02.08)  
RNA Concentration: 499 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2              Result Flagging Label: RIN: 7.70

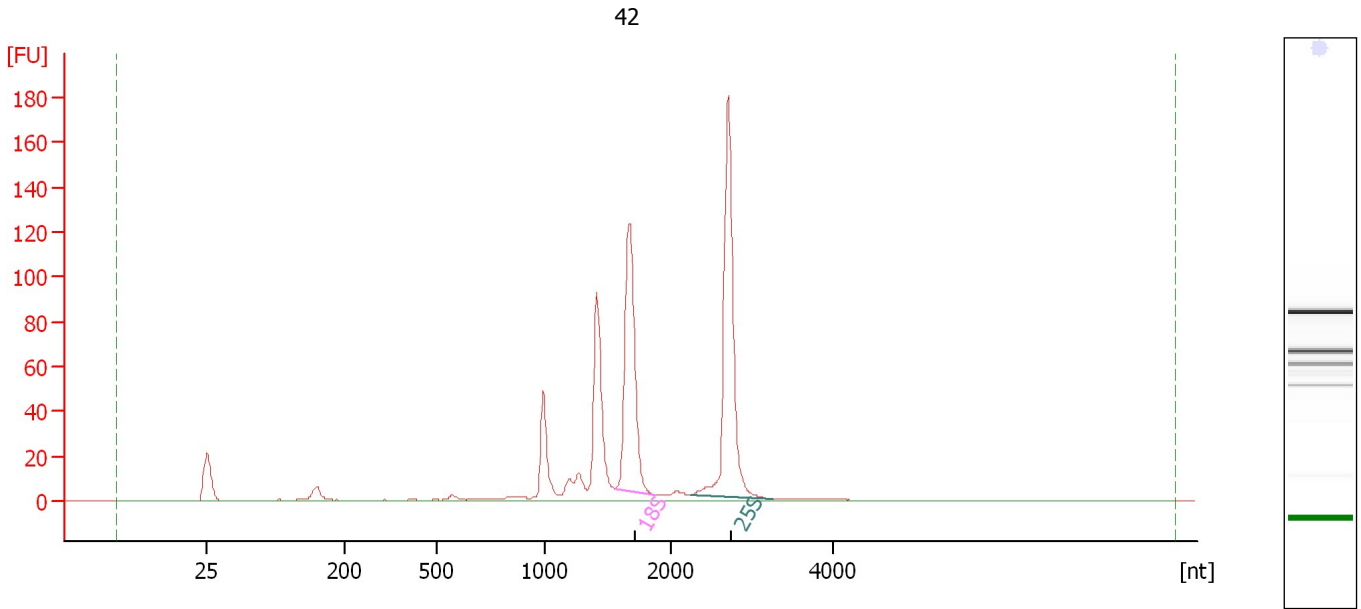
**Fragment table for sample 5 : 41**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	1,889	135.2	23.6
25S	2,261	3,282	166.3	29.0

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
Modified: 6/19/2018 12:46:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 42**

RNA Area: 589.0                      RNA Integrity Number (RIN): 7.9 (B.02.08)  
RNA Concentration: 513 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.3                      Result Flagging Label: RIN: 7.90

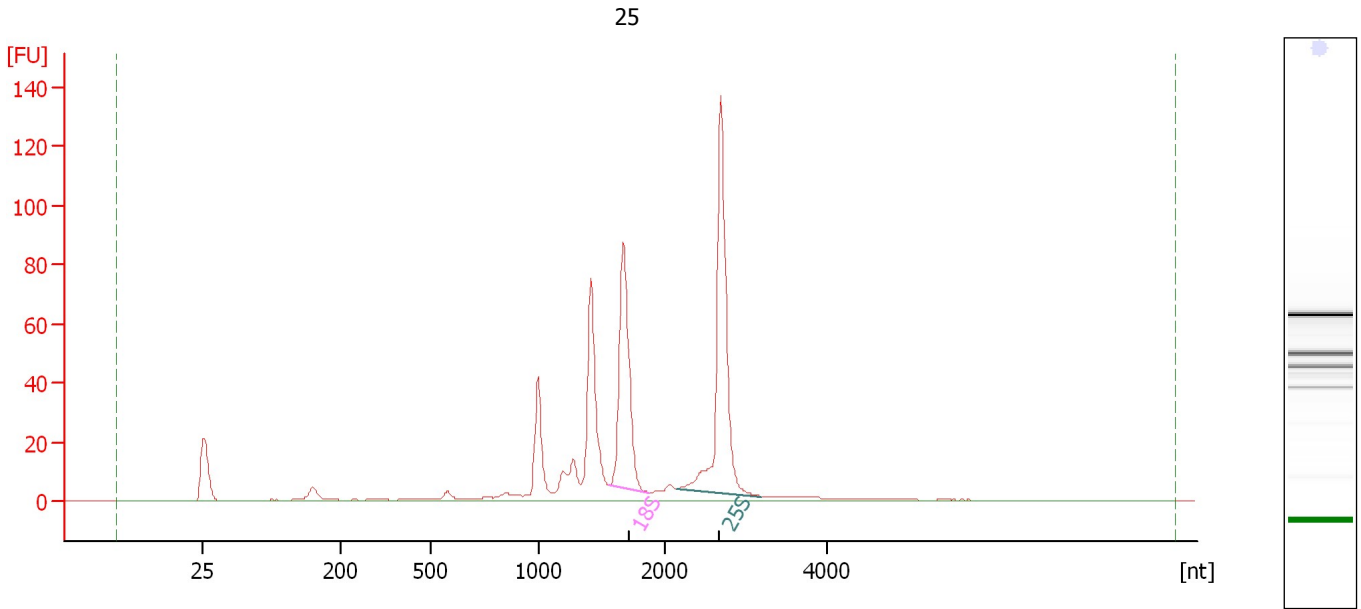
**Fragment table for sample 6 : 42**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,556	1,870	142.8	24.2
25S	2,260	3,259	183.3	31.1

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
Modified: 6/19/2018 12:46:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 25**

RNA Area: 498.3                      RNA Integrity Number (RIN): 7.7 (B.02.08)  
RNA Concentration: 434 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.4              Result Flagging Label: RIN: 7.70

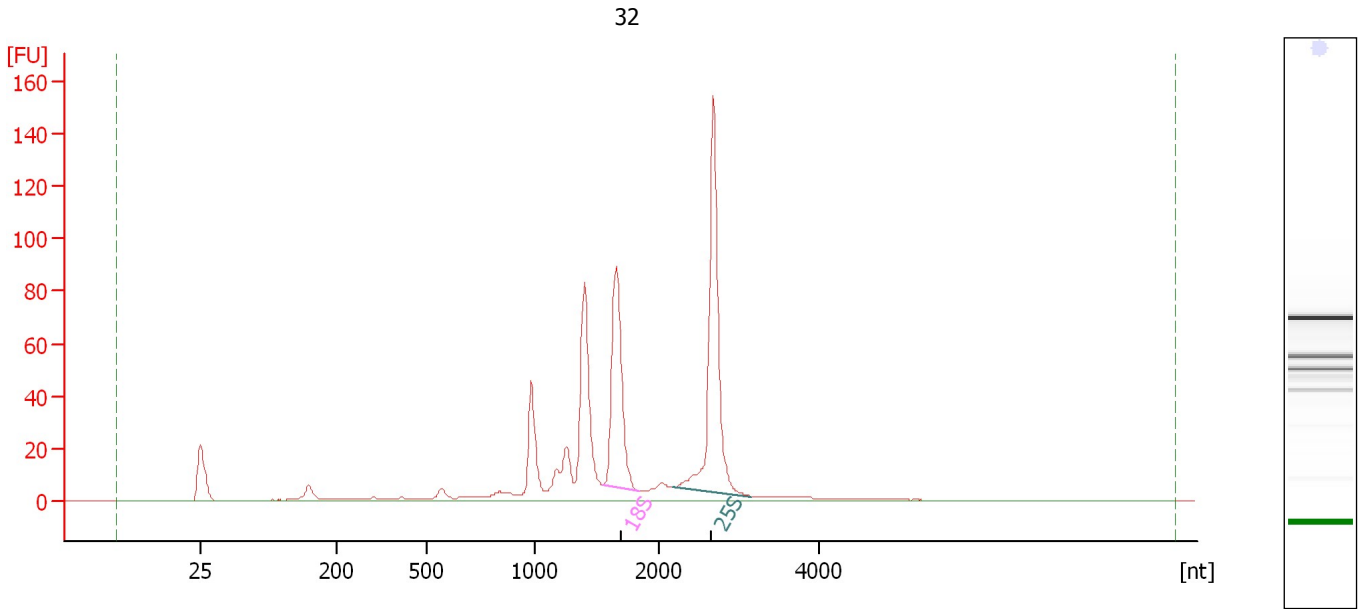
**Fragment table for sample 7 : 25**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,559	1,876	101.1	20.3
25S	2,153	3,184	142.2	28.5

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
Modified: 6/19/2018 12:46:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 32**

RNA Area:	568.1	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	495 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]:	1.5	Result Flagging Label:	RIN: 7.70

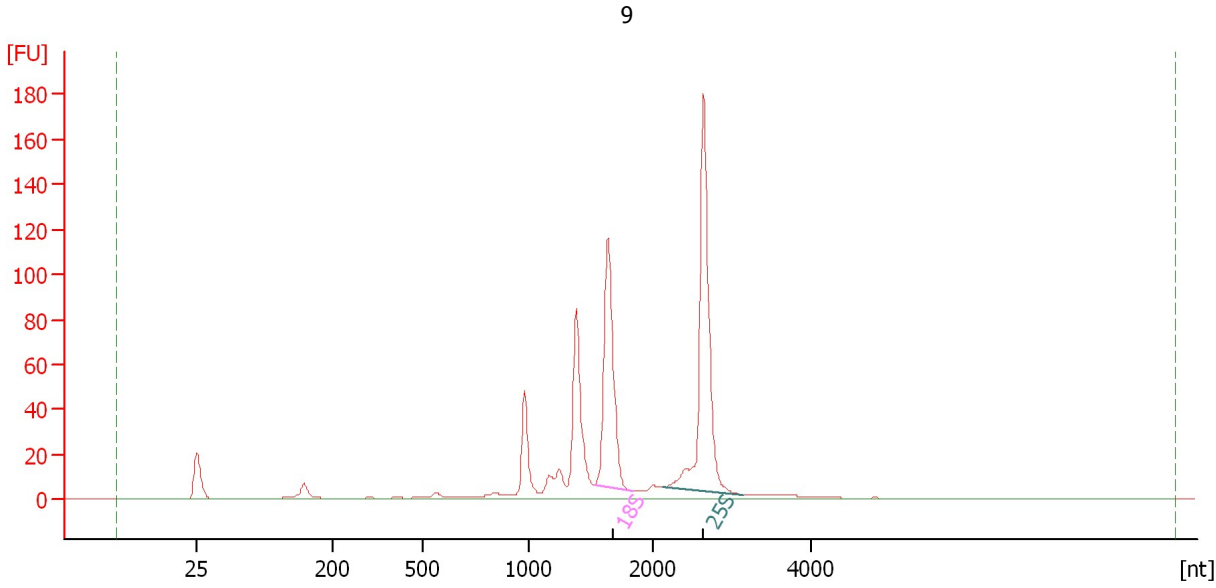
**Fragment table for sample 8 : 32**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,554	1,847	103.2	18.2
25S	2,190	3,148	157.7	27.8

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
Modified: 6/19/2018 12:46:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 9**

RNA Area: 621.5                      RNA Integrity Number (RIN): 7.9 (B.02.08)  
RNA Concentration: 542 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.4              Result Flagging Label: RIN: 7.90

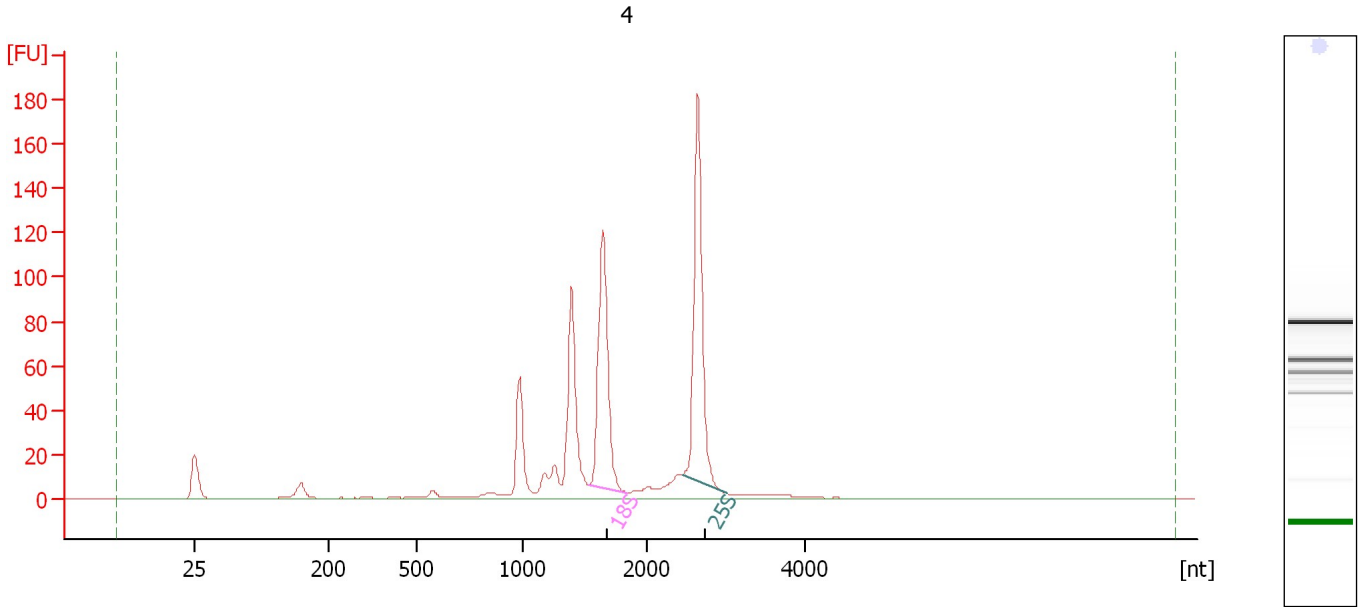
**Fragment table for sample 9 : 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,532	1,835	134.3	21.6
25S	2,135	3,139	190.6	30.7

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
Modified: 6/19/2018 12:46:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 4**

RNA Area: 637.5                      RNA Integrity Number (RIN): 7.7 (B.02.08)  
RNA Concentration: 556 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2              Result Flagging Label: RIN: 7.70

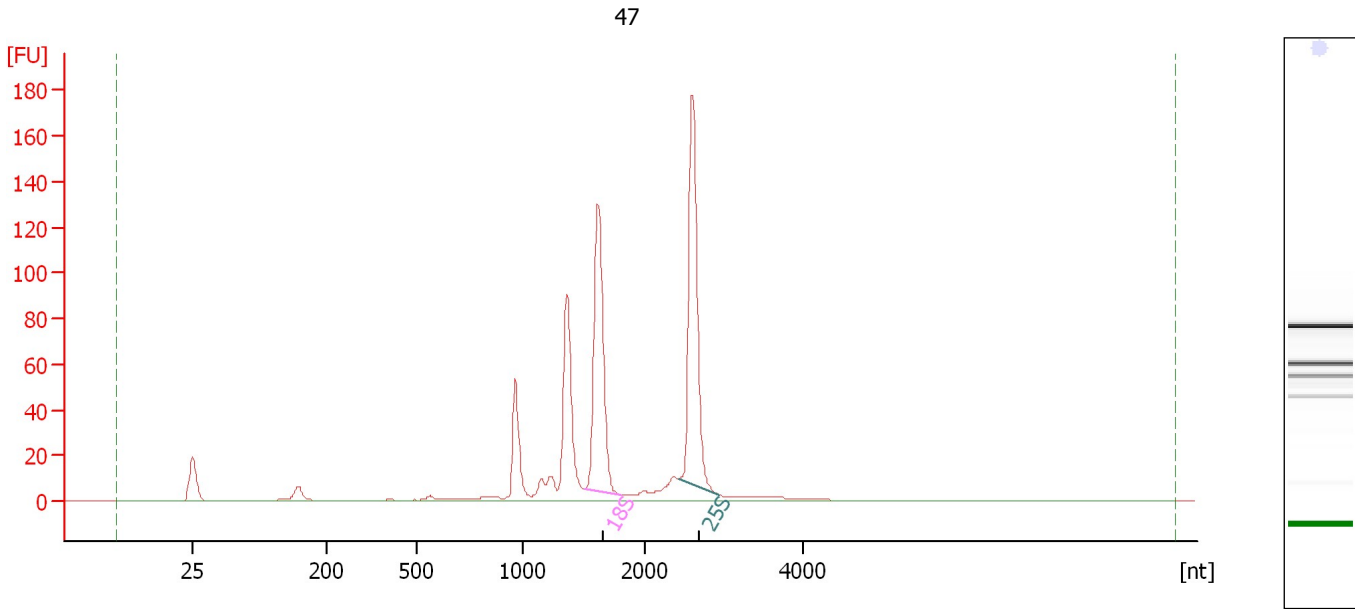
**Fragment table for sample 10 : 4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,535	1,850	140.5	22.0
25S	2,456	3,008	167.5	26.3

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
 Modified: 6/19/2018 12:46:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 47**

RNA Area:	603.0	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	526 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: 7.80

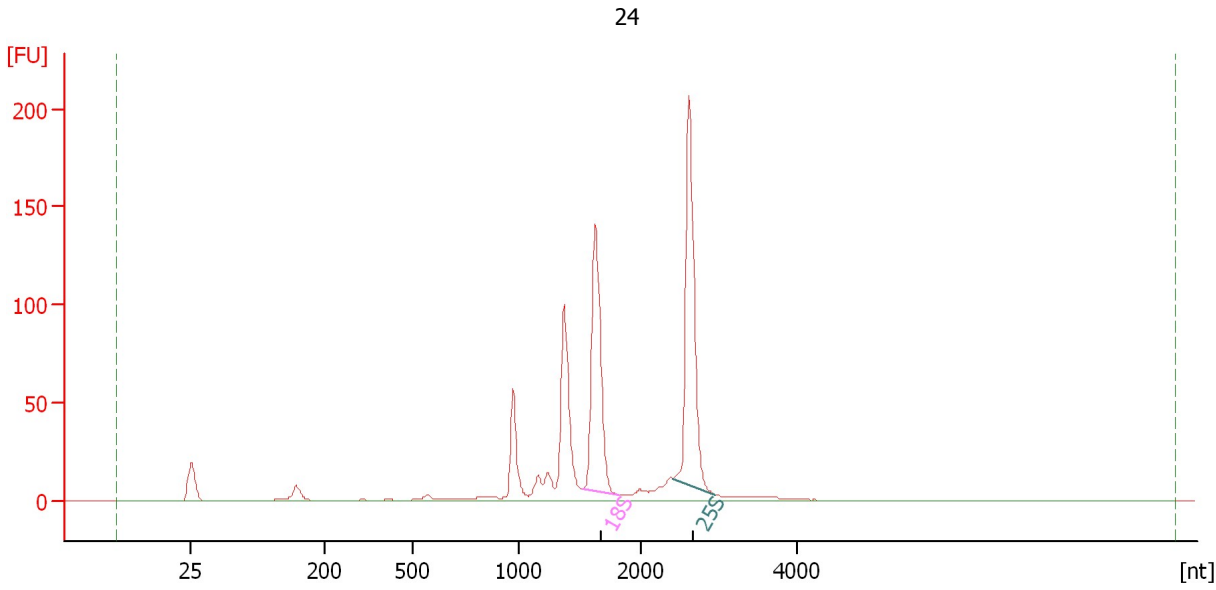
**Fragment table for sample 11 : 47**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,507	1,805	146.1	24.2
25S	2,428	2,942	163.4	27.1

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
 Modified: 6/19/2018 12:46:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 24**

RNA Area:	684.7	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	597 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: 7.80

**Fragment table for sample 12 : 24**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,530	1,829	157.2	23.0
25S	2,428	2,944	189.9	27.7



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-19\2018-06-19\_002.xad

Created: 6/19/2018 12:23:26 PM  
Modified: 6/19/2018 12:46:34 PM

**Gel Image**

