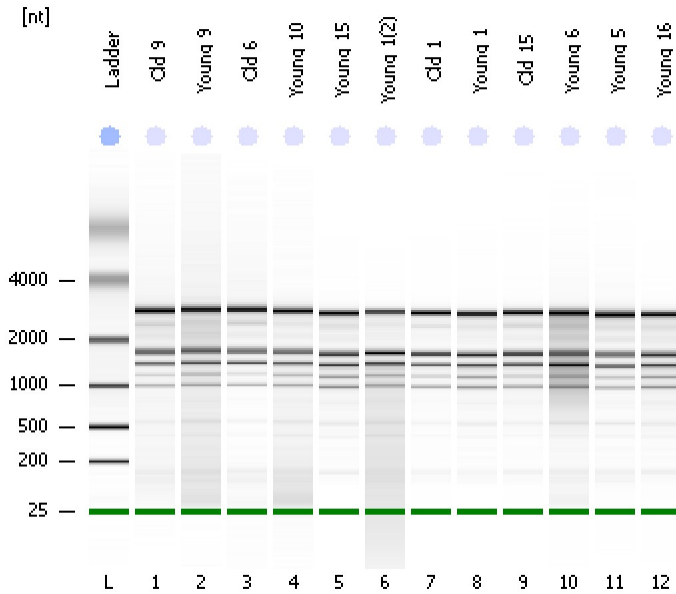


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
Modified: 12/8/2017 1:09:37 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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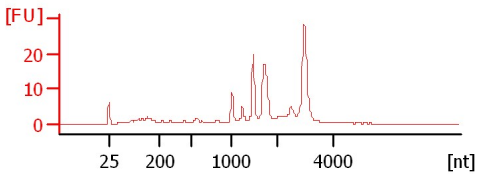
#### Chip Information:

Chip Lot #:

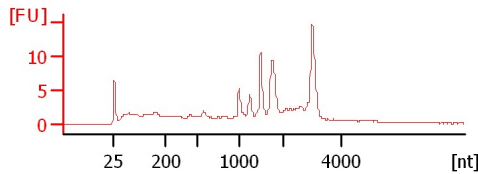
Reagent Kit Lot #:

Chip Comments:

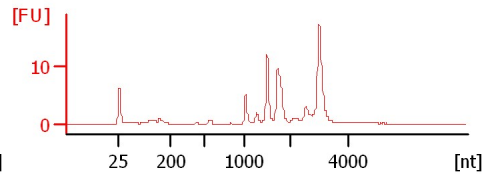
**Old 9**  
RIN: 7.70



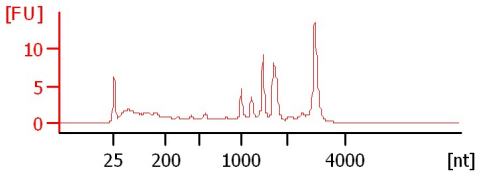
**Young 9**  
RIN: 7



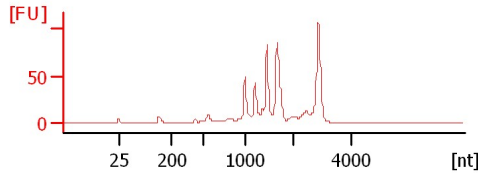
**Old 6**  
RIN: 8.20



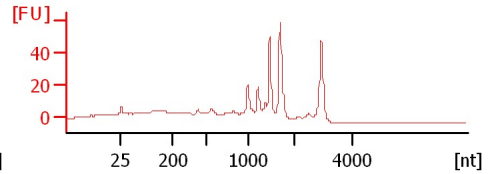
**Young 10**  
RIN: 7.50



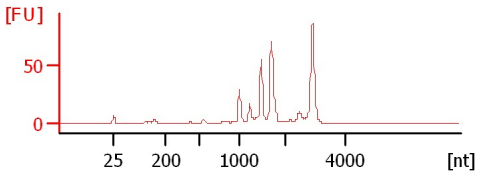
**Young 15**  
RIN: 6.70



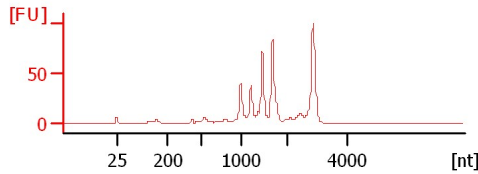
**Young 1(2)**  
RIN: 6



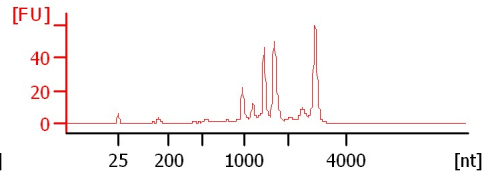
**Old 1**  
RIN: 7.20



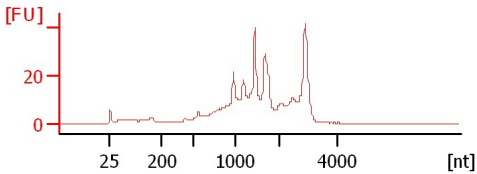
**Young 1**  
RIN: 6.70



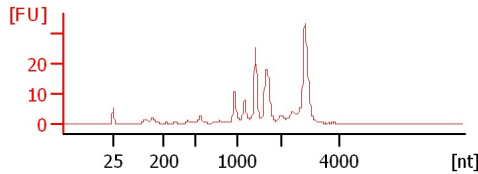
**Old 15**  
RIN: 7



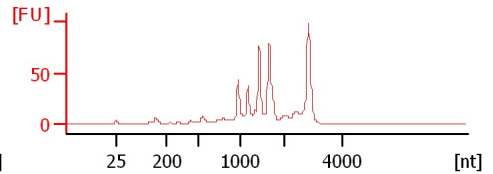
**Young 6**  
RIN: 6.30



**Young 5**  
RIN: 7.80



**Young 16**  
RIN: 6.80



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
 Modified: 12/8/2017 1:09:37 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Old 9		✓	RIN: 7.70	
Young 9		✓	RIN:7	
Old 6		✓	RIN: 8.20	
Young 10		✓	RIN: 7.50	
Young 15		✓	RIN: 6.70	
Young 1(2)		✓	RIN:6	
Old 1		✓	RIN: 7.20	
Young 1		✓	RIN: 6.70	
Old 15		✓	RIN:7	
Young 6		✓	RIN: 6.30	
Young 5		✓	RIN: 7.80	
Young 16		✓	RIN: 6.80	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
Modified: 12/8/2017 1:09:37 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

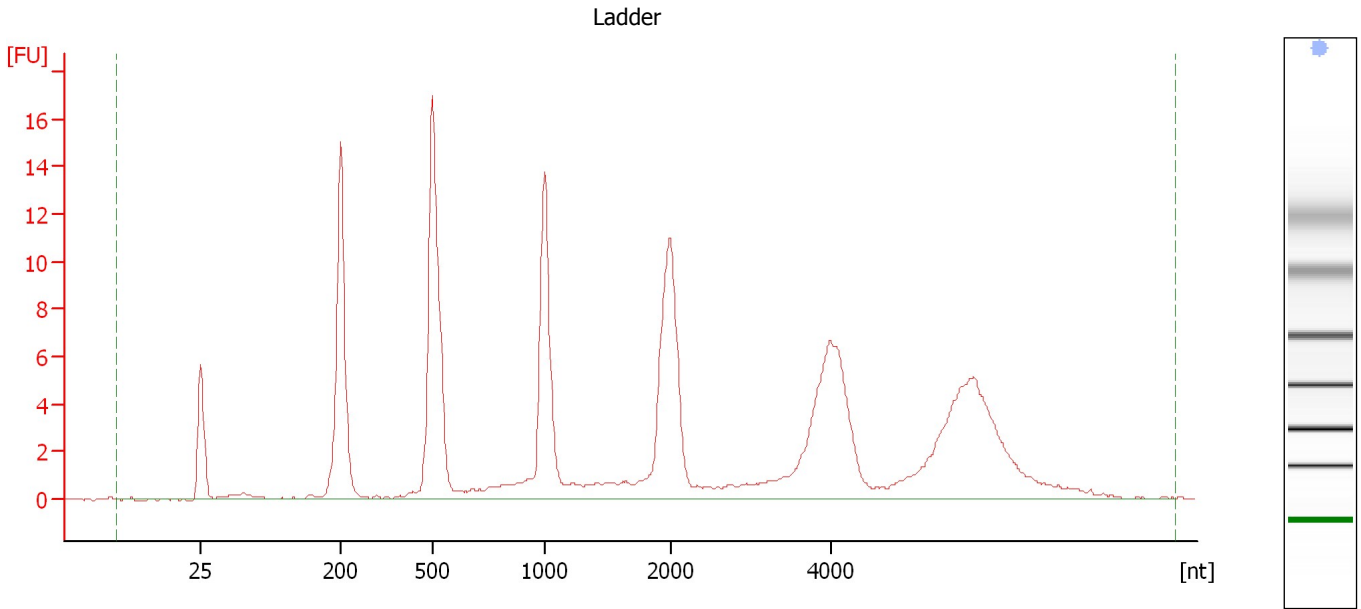
**Ladder**

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\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
Modified: 12/8/2017 1:09:37 PM

**Electropherogram Summary**



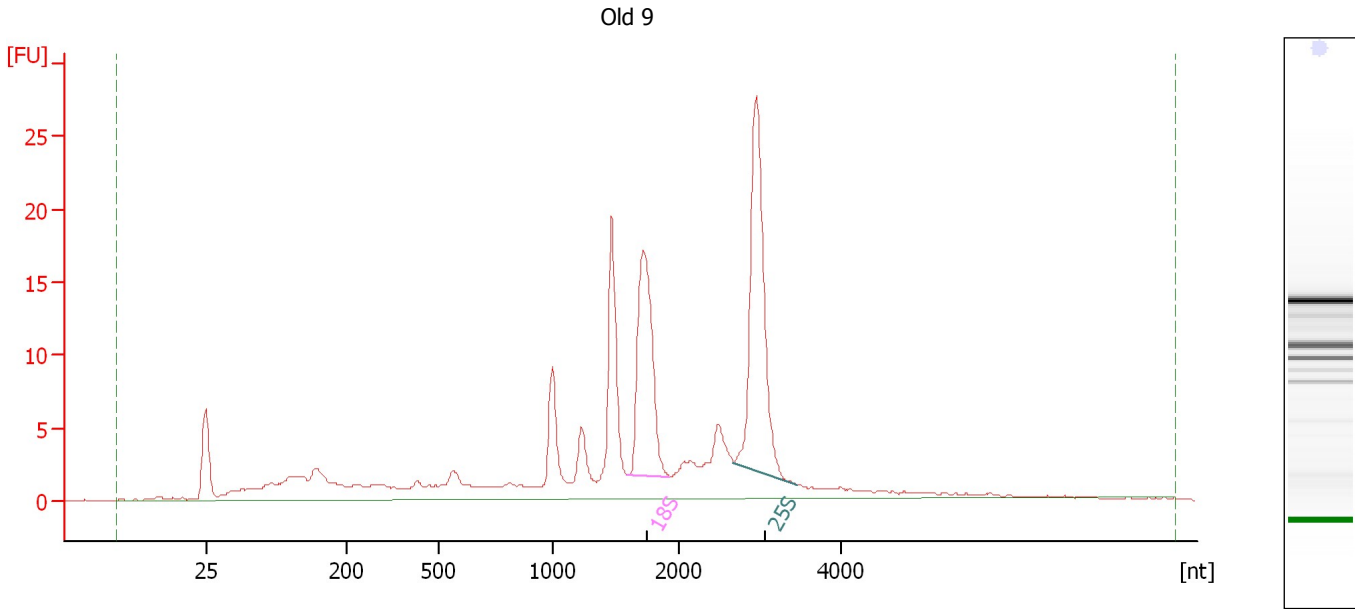
**Overall Results for Ladder**

RNA Area:	166.1	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\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
Modified: 12/8/2017 1:09:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Old 9**

RNA Area: 201.2                      RNA Integrity Number (RIN): 7.7 (B.02.08)  
RNA Concentration: 182 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.3                      Result Flagging Label: RIN: 7.70

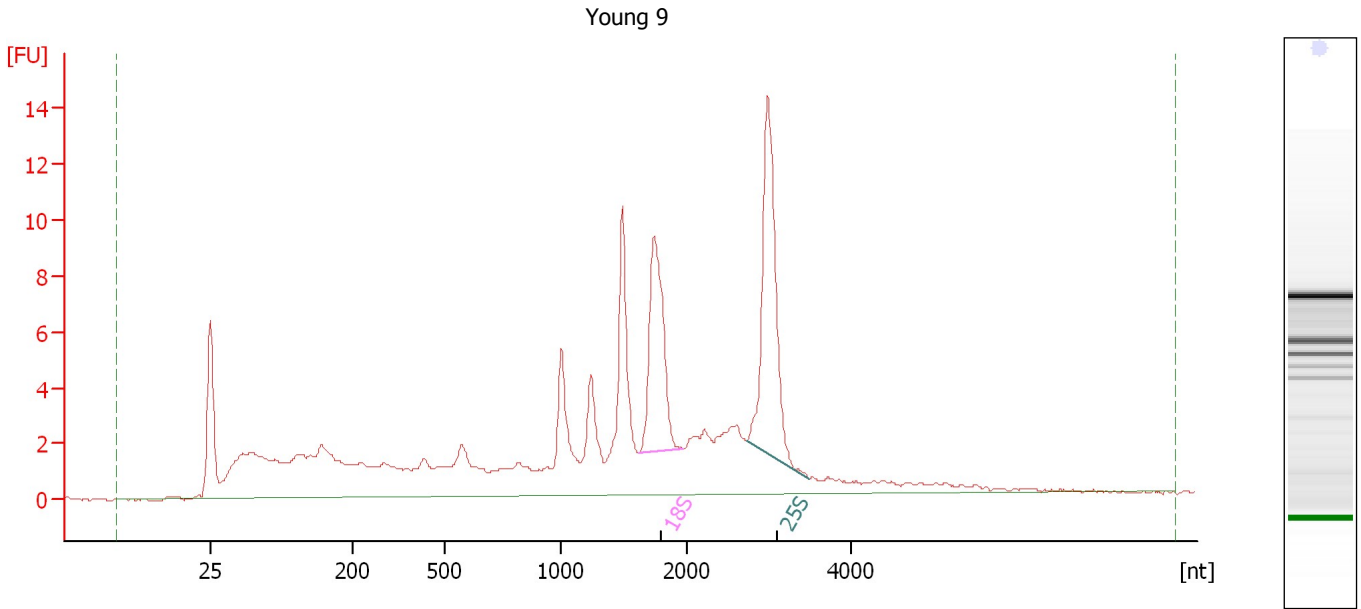
**Fragment table for sample 1 : Old 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,595	1,925	27.7	13.8
25S	2,677	3,457	37.2	18.5

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
 Modified: 12/8/2017 1:09:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Young 9**

RNA Area:	153.2	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	138 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

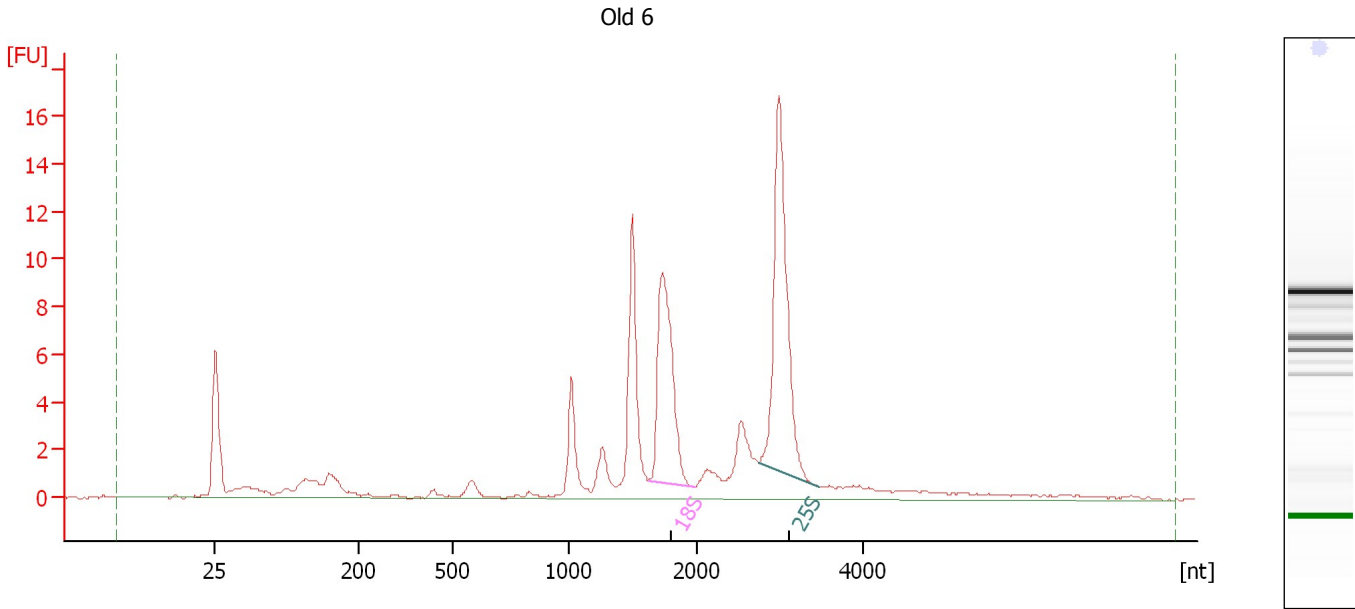
**Fragment table for sample 2 : Young 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,626	1,970	13.1	8.5
25S	2,727	3,488	18.2	11.9

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
Modified: 12/8/2017 1:09:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Old 6**

RNA Area:	97.2	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	88 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: 8.20

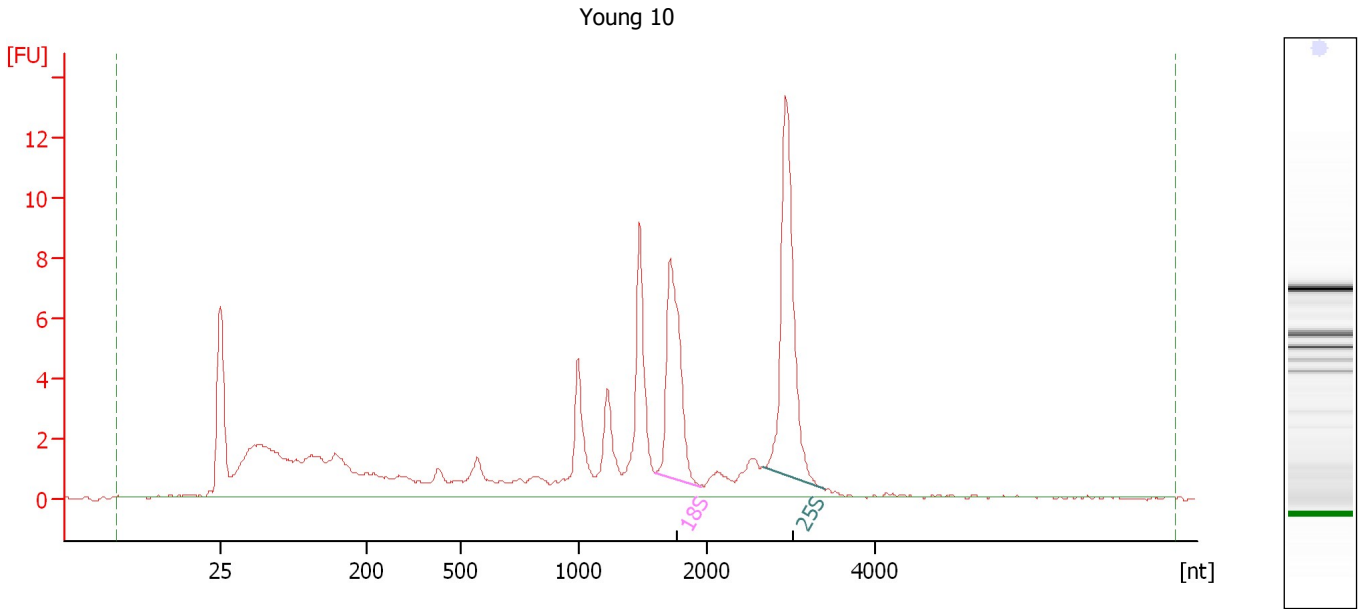
**Fragment table for sample 3 : Old 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,616	1,973	15.4	15.8
25S	2,737	3,476	22.0	22.6

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
Modified: 12/8/2017 1:09:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Young 10**

RNA Area:	105.9	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	96 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: 7.50

**Fragment table for sample 4 : Young 10**

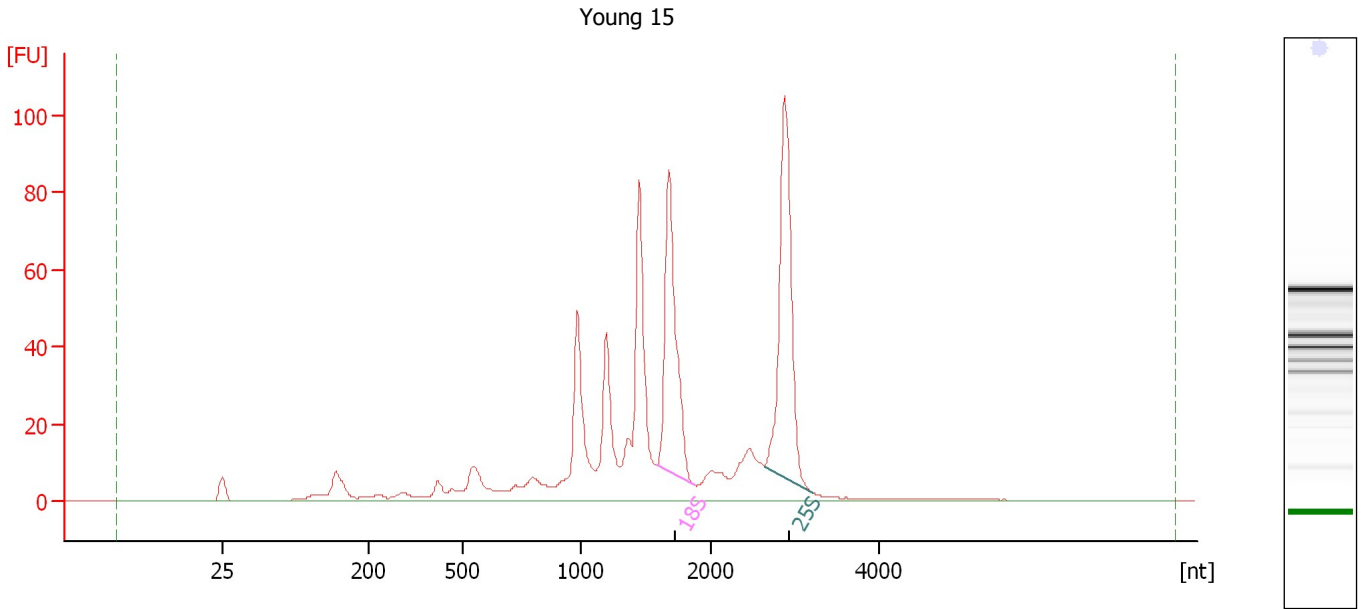
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,589	1,943	11.8	11.1
25S	2,656	3,401	16.5	15.6



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
Modified: 12/8/2017 1:09:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Young 15**

RNA Area: 668.2                      RNA Integrity Number (RIN): 6.7 (B.02.08)  
RNA Concentration: 603 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2                      Result Flagging Label: RIN: 6.70

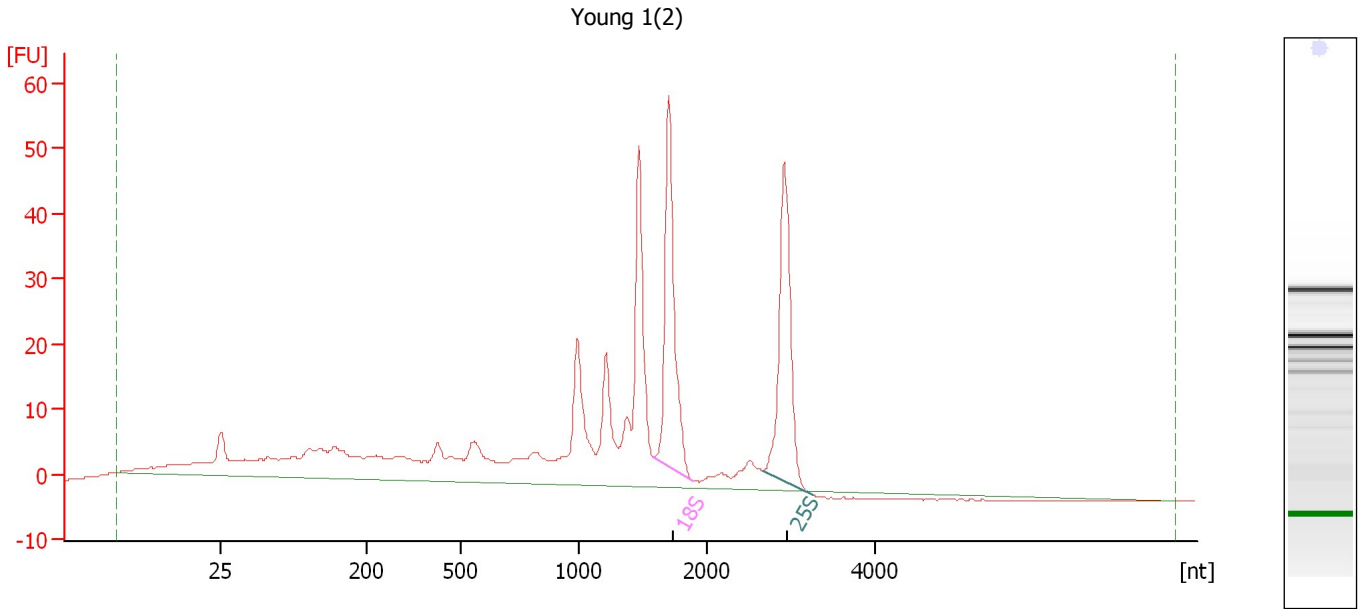
**Fragment table for sample 5 : Young 15**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	1,871	103.6	15.5
25S	2,630	3,205	122.6	18.3

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
 Modified: 12/8/2017 1:09:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Young 1(2)**

RNA Area:	478.6	RNA Integrity Number (RIN):	6 (B.02.08)
RNA Concentration:	432 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

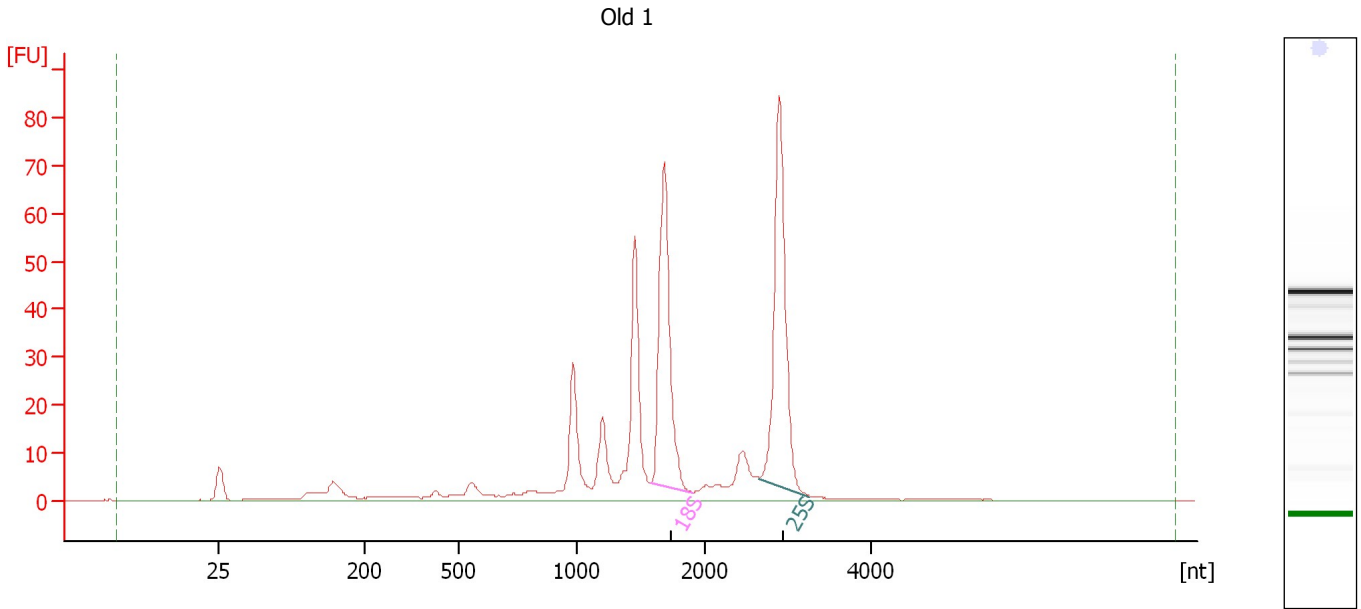
**Fragment table for sample 6 : Young 1(2)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,581	1,886	63.9	13.3
25S	2,669	3,273	58.1	12.1

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
Modified: 12/8/2017 1:09:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Old 1**

RNA Area: 414.9                      RNA Integrity Number (RIN): 7.2 (B.02.08)  
RNA Concentration: 375 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.1                      Result Flagging Label: RIN: 7.20

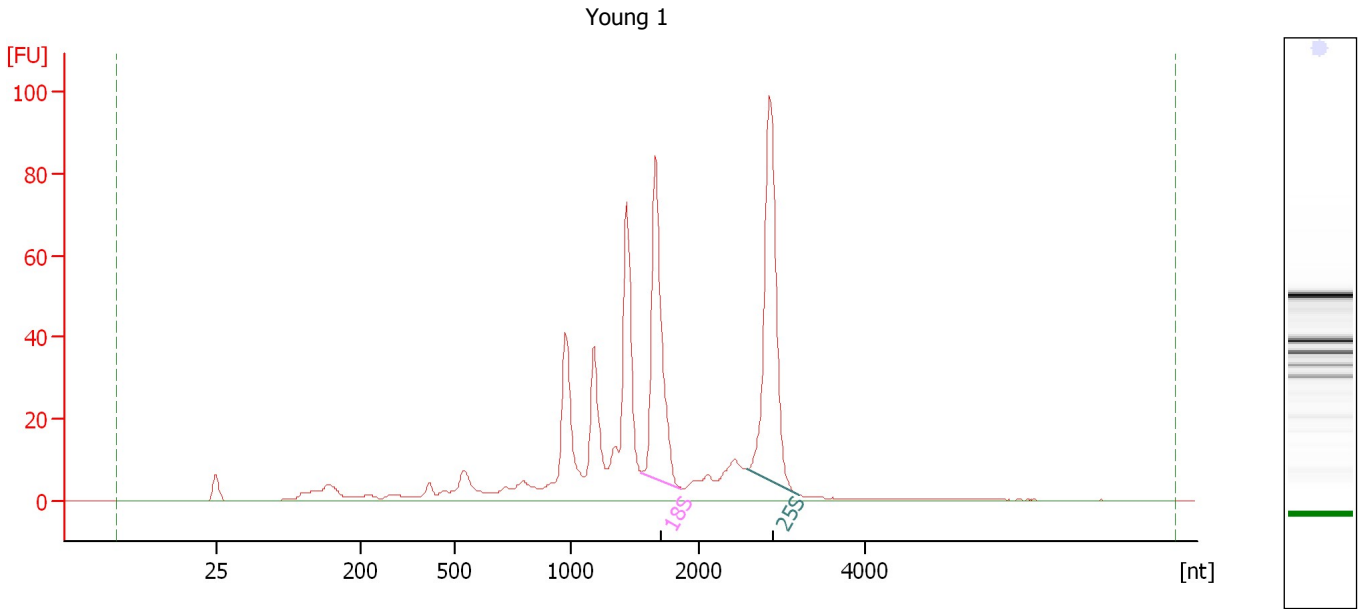
**Fragment table for sample 7 : Old 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	1,901	84.5	20.4
25S	2,644	3,249	96.9	23.3

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
Modified: 12/8/2017 1:09:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Young 1**

RNA Area: 580.0                      RNA Integrity Number (RIN): 6.7 (B.02.08)  
RNA Concentration: 524 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2                      Result Flagging Label: RIN: 6.70

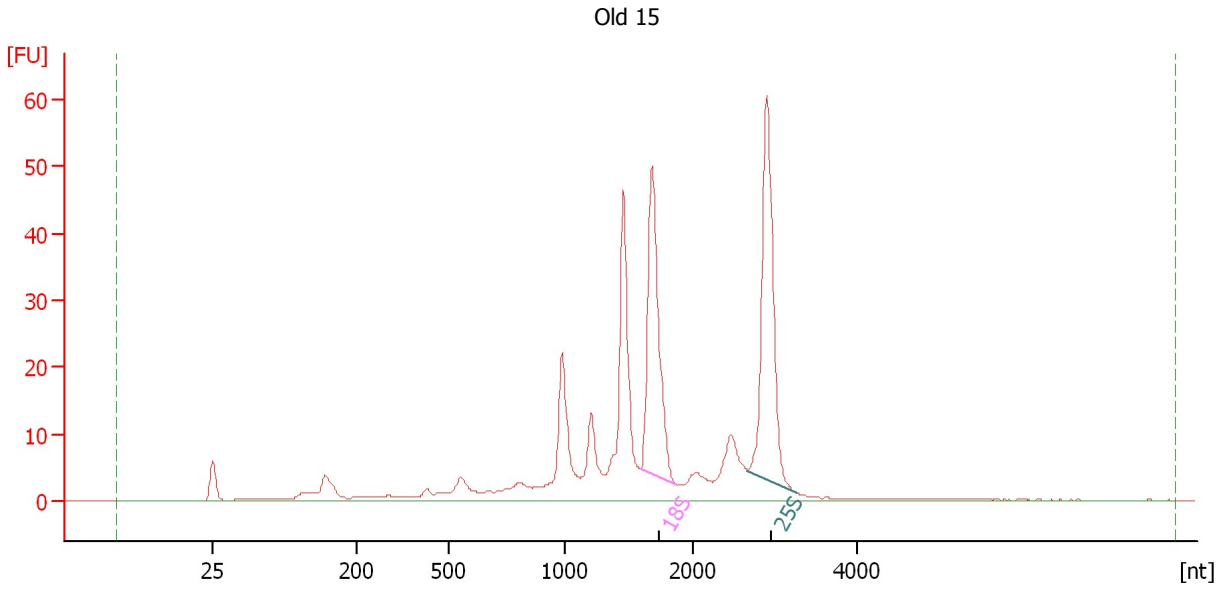
**Fragment table for sample 8 : Young 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,550	1,858	94.4	16.3
25S	2,581	3,215	117.4	20.2

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
Modified: 12/8/2017 1:09:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Old 15**

RNA Area:	355.4	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	321 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

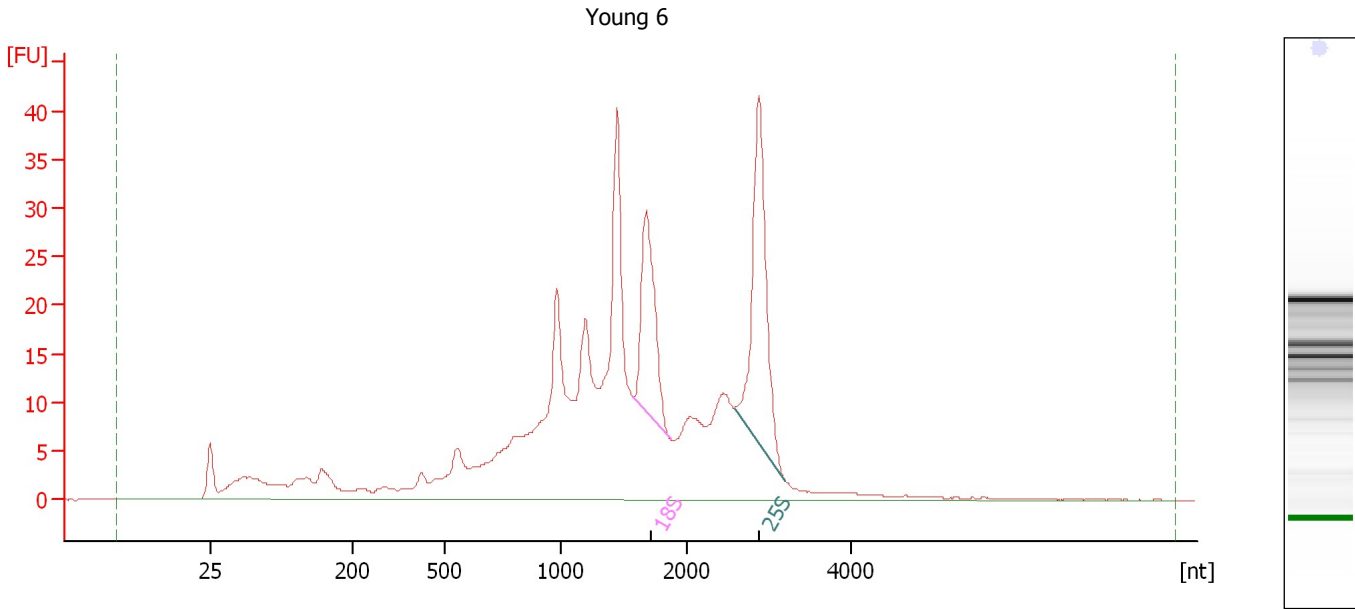
**Fragment table for sample 9 : Old 15**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,588	1,872	62.3	17.5
25S	2,660	3,272	69.1	19.4

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
Modified: 12/8/2017 1:09:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Young 6**

RNA Area: 486.5                      RNA Integrity Number (RIN): 6.3 (B.02.08)  
RNA Concentration: 439 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.6                      Result Flagging Label: RIN: 6.30

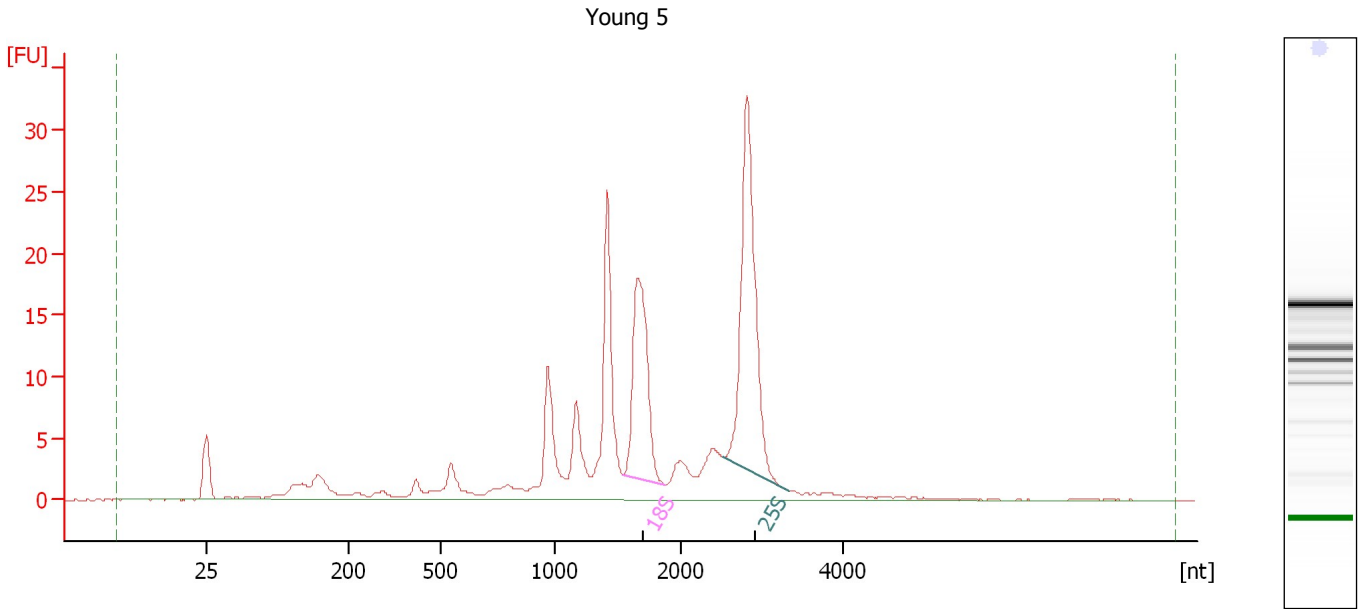
**Fragment table for sample 10 : Young 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,575	1,869	33.6	6.9
25S	2,583	3,212	52.3	10.8

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
Modified: 12/8/2017 1:09:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Young 5**

RNA Area: 204.0                      RNA Integrity Number (RIN): 7.8 (B.02.08)  
RNA Concentration: 184 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.6                      Result Flagging Label: RIN: 7.80

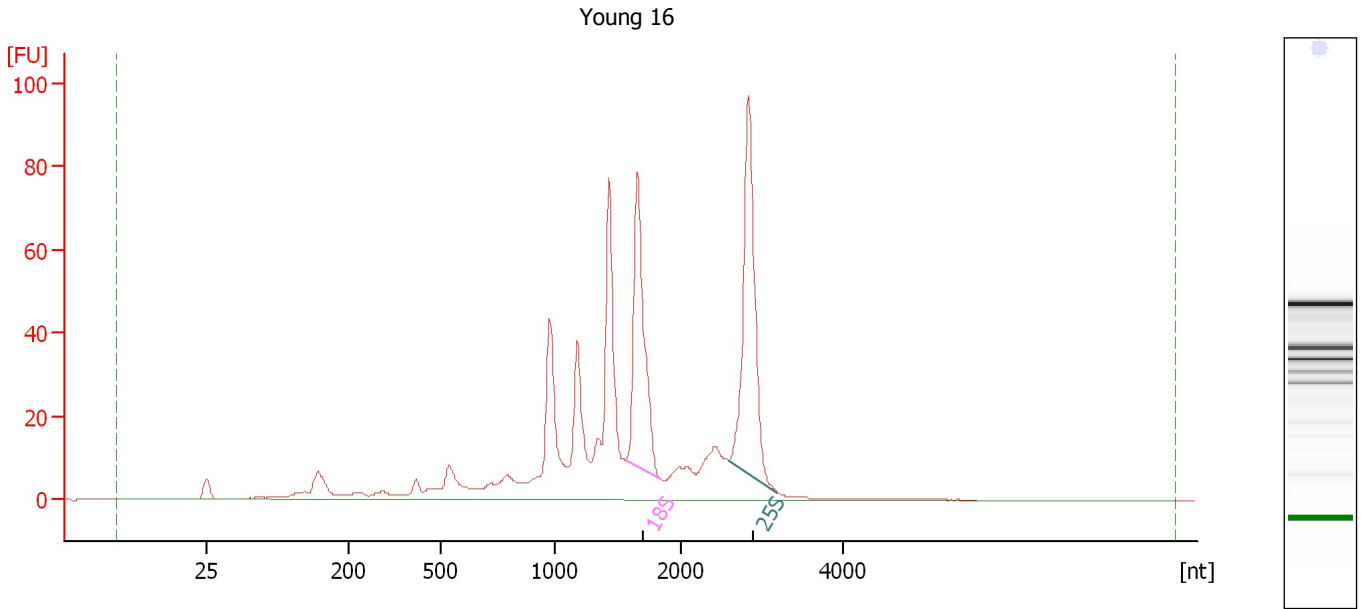
**Fragment table for sample 11 : Young 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,546	1,875	29.4	14.4
25S	2,531	3,323	46.0	22.5

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
Modified: 12/8/2017 1:09:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : Young 16**

RNA Area: 644.8                      RNA Integrity Number (RIN): 6.8 (B.02.08)  
RNA Concentration: 582 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2                      Result Flagging Label: RIN: 6.80

**Fragment table for sample 12 : Young 16**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	1,842	91.4	14.2
25S	2,597	3,191	112.8	17.5



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-08\2017-12-08\_002.xad

Created: 12/8/2017 12:45:47 PM  
Modified: 12/8/2017 1:09:37 PM

**Gel Image**

