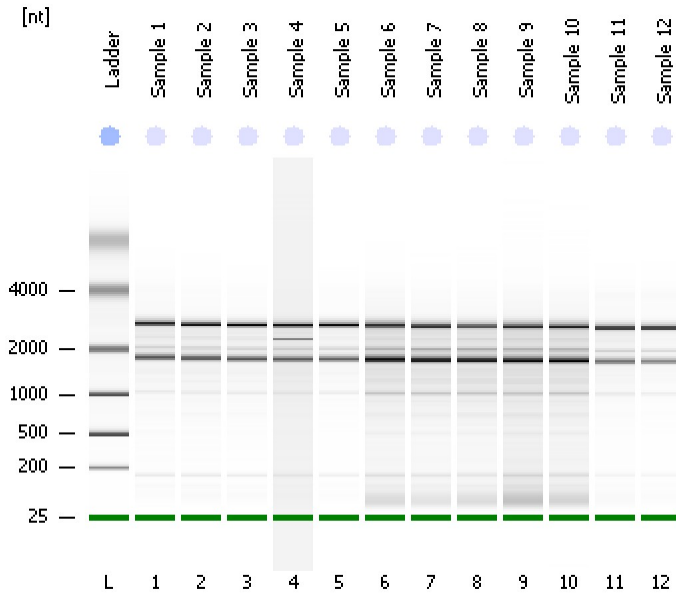


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 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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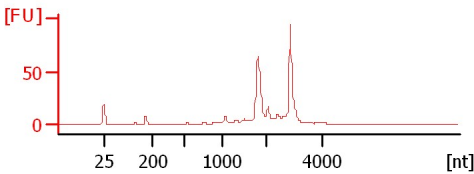
Chip Information:

Chip Lot #:

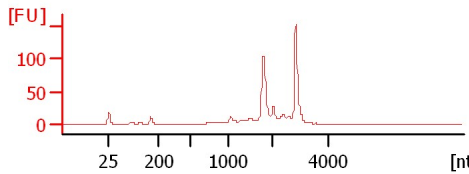
Reagent Kit Lot #:

Chip Comments:

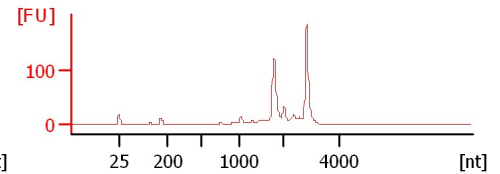
Sample 1  
RIN: 8.60



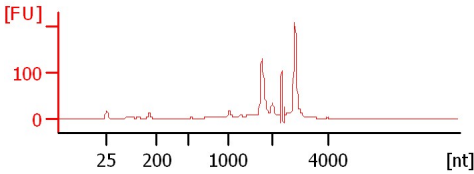
Sample 2  
RIN: 8.30



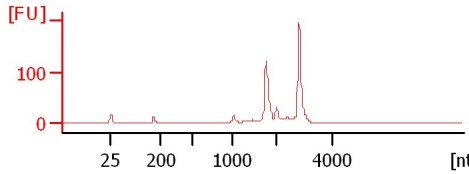
Sample 3  
RIN: 8.60



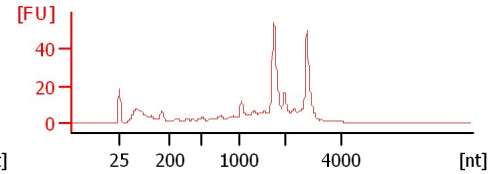
Sample 4  
RIN: 8.80



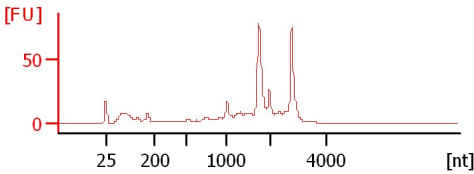
Sample 5  
RIN: 9.10



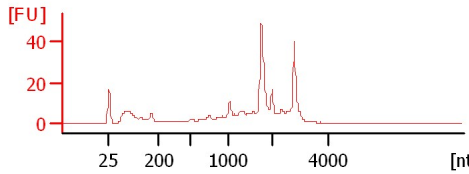
Sample 6  
RIN: 7.20



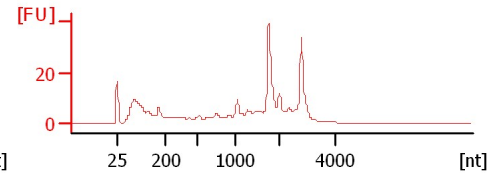
Sample 7  
RIN: 7.20



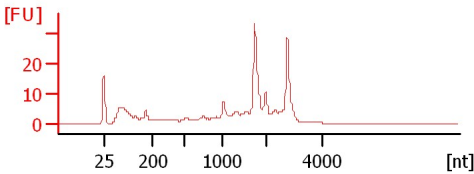
Sample 8  
RIN: 7



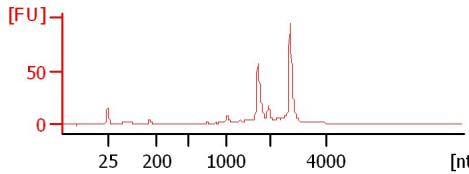
Sample 9  
RIN: 6.90



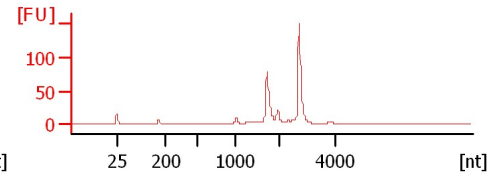
Sample 10  
RIN: 7.10



Sample 11  
RIN: 8.70



Sample 12  
RIN: 9



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 8.60	
Sample 2		✓	RIN: 8.30	
Sample 3		✓	RIN: 8.60	
Sample 4		✓	RIN: 8.80	
Sample 5		✓	RIN: 9.10	
Sample 6		✓	RIN: 7.20	
Sample 7		✓	RIN: 7.20	
Sample 8		✓	RIN:7	
Sample 9		✓	RIN: 6.90	
Sample 10		✓	RIN: 7.10	
Sample 11		✓	RIN: 8.70	
Sample 12		✓	RIN:9	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 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

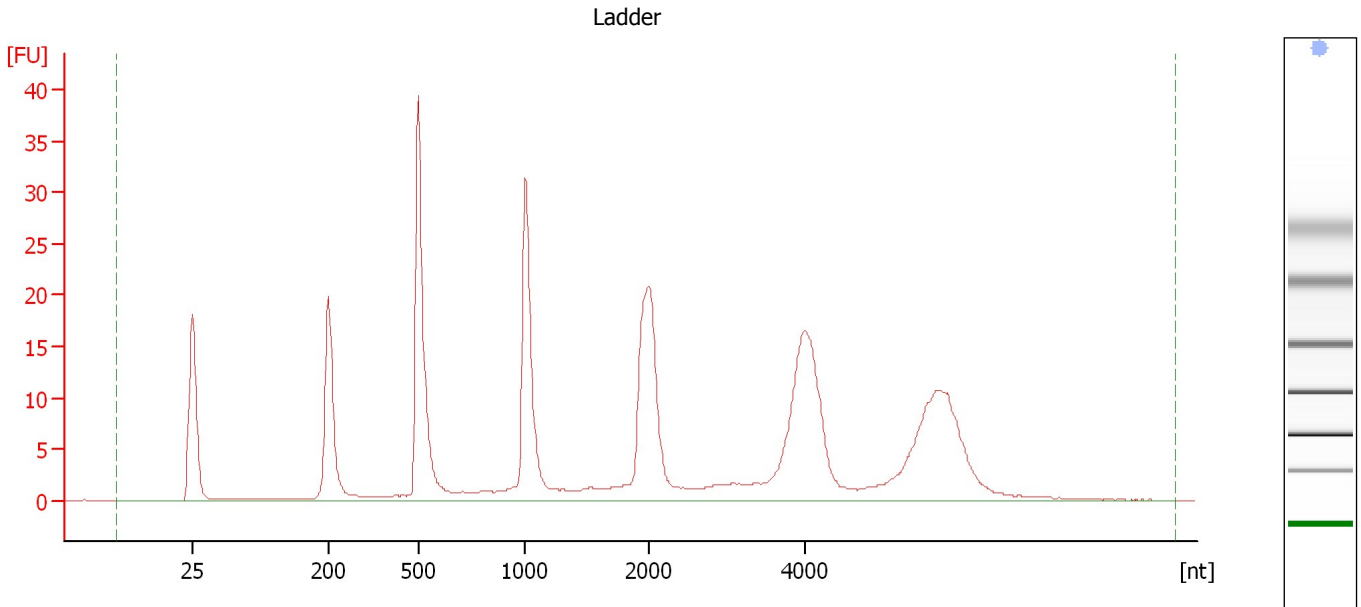
### Ladder

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\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Electropherogram Summary**



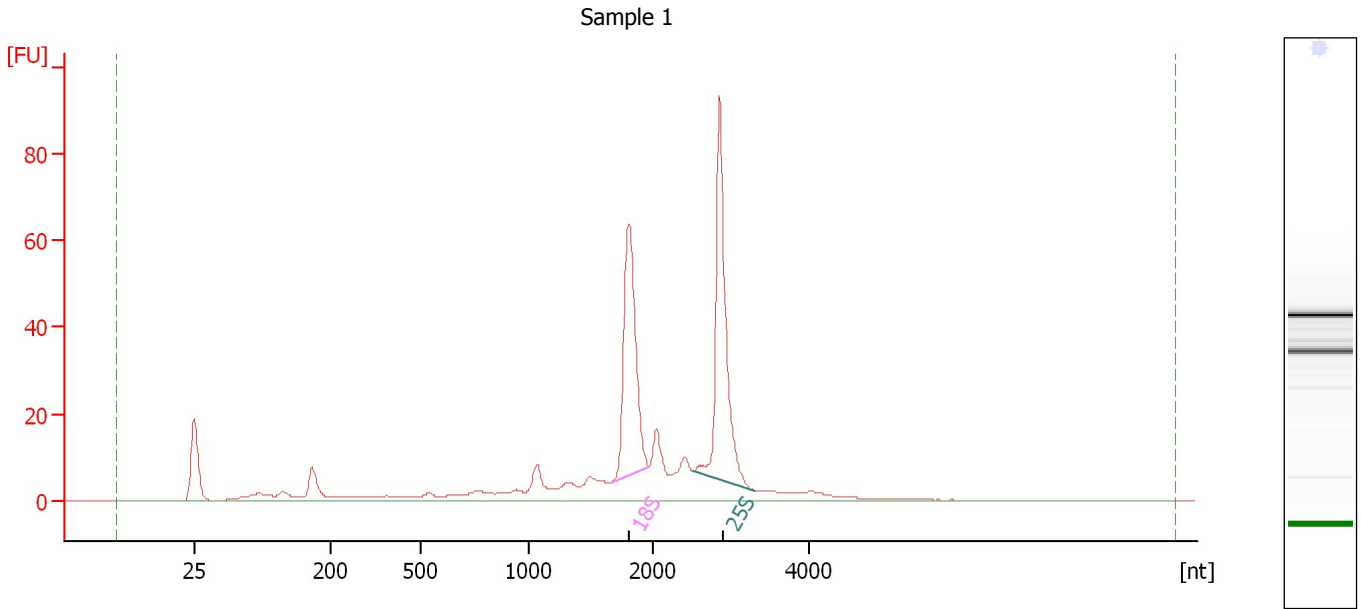
**Overall Results for Ladder**

RNA Area:	316.7	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Sample 1**

RNA Area:	397.1	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	188 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: 8.60

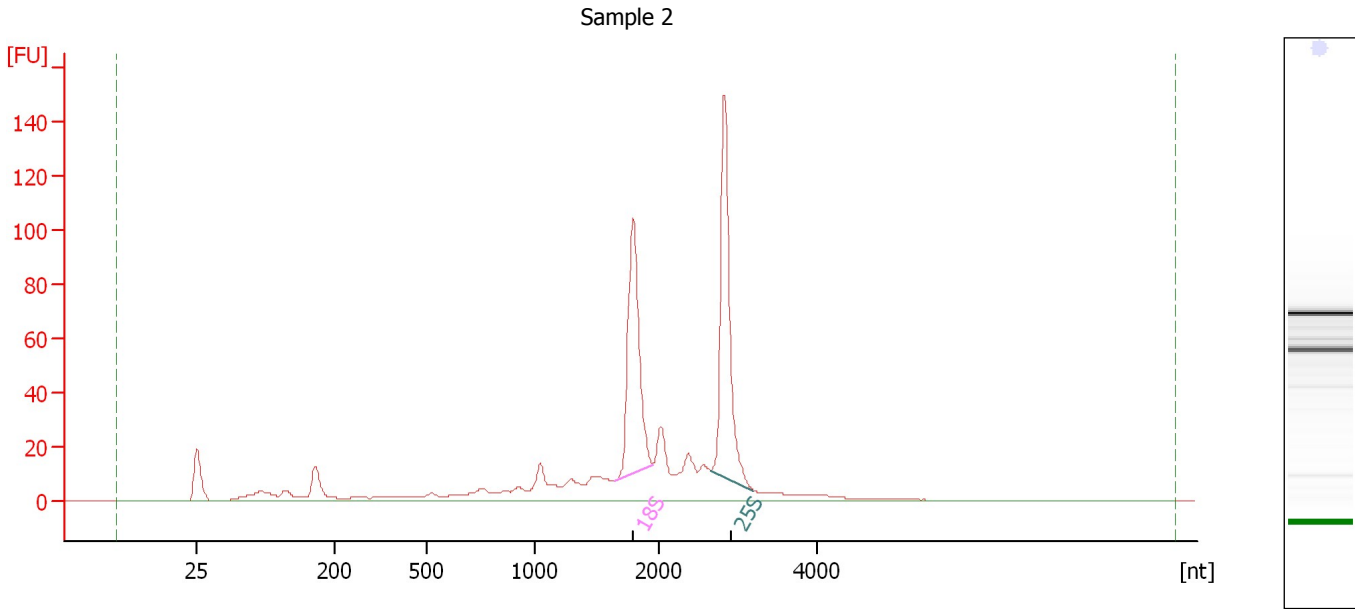
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,672	1,975	83.9	21.1
25S	2,520	3,311	96.1	24.2

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sample 2**

RNA Area:	641.3	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	304 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: 8.30

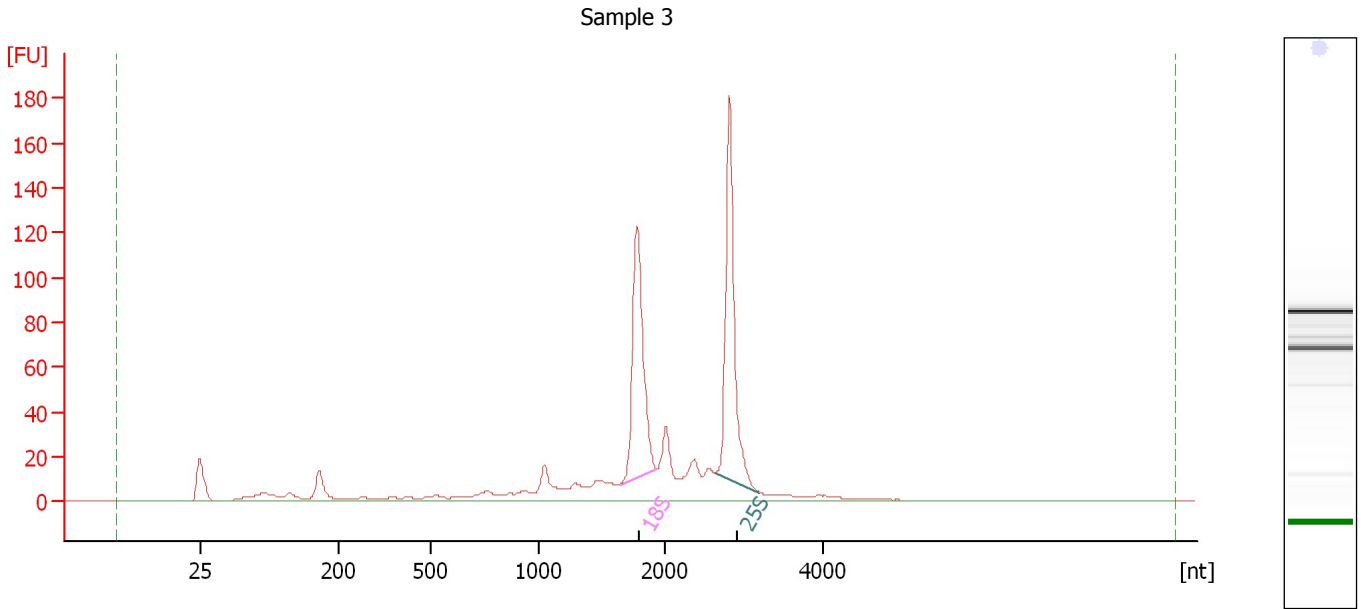
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	1,951	128.8	20.1
25S	2,668	3,210	136.9	21.3

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sample 3**

RNA Area:	688.3	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	326 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: 8.60

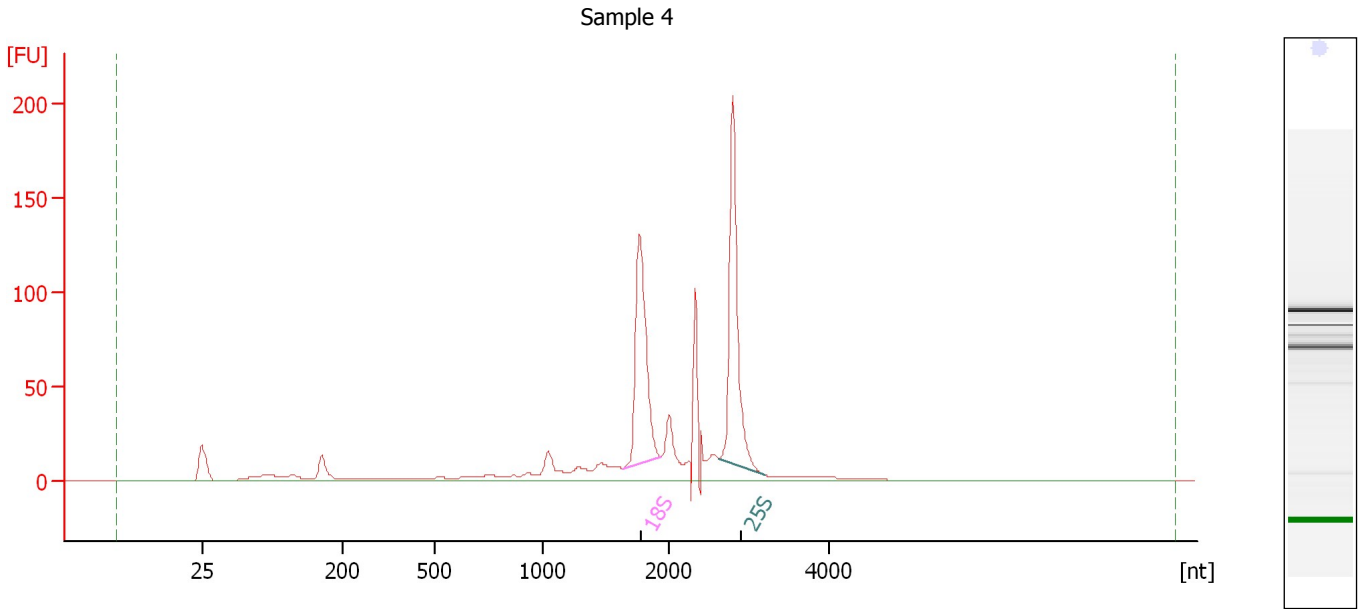
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,645	1,936	150.7	21.9
25S	2,640	3,192	162.1	23.5

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Sample 4**

RNA Area:	715.6	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	339 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: 8.80

**Fragment table for sample 4 : Sample 4**

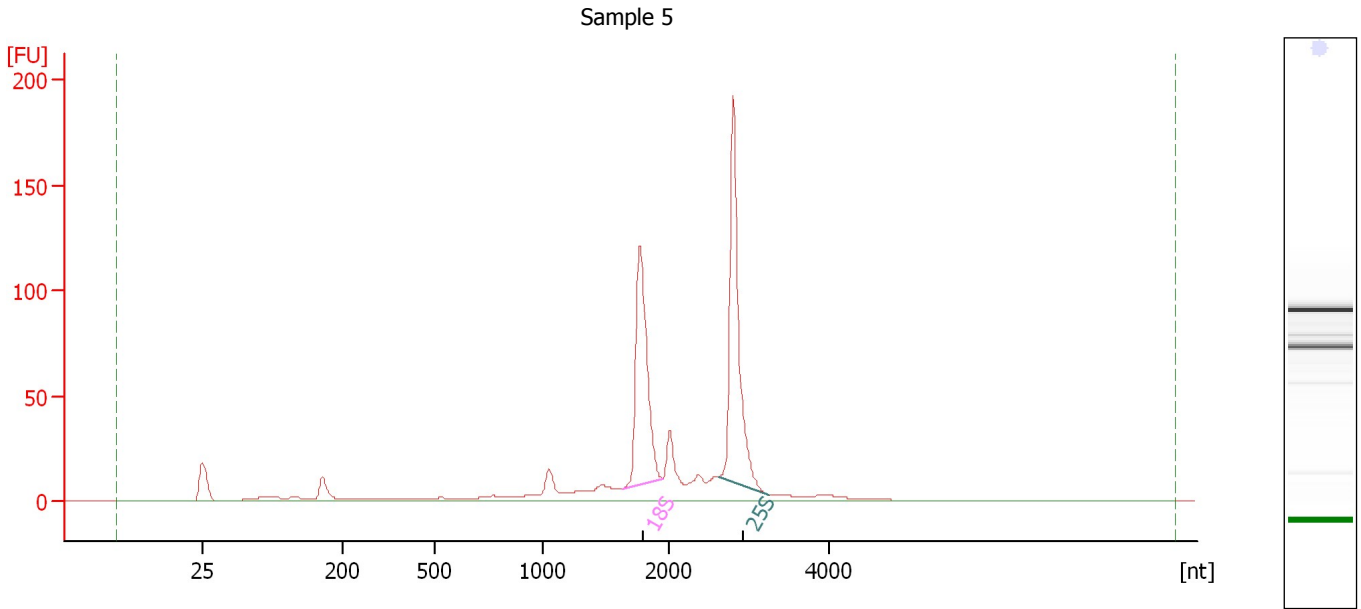
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,640	1,938	157.3	22.0
25S	2,639	3,202	178.1	24.9



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Sample 5**

RNA Area: 647.9                      RNA Integrity Number (RIN): 9.1 (B.02.08)  
RNA Concentration: 307 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2                      Result Flagging Label: RIN: 9.10

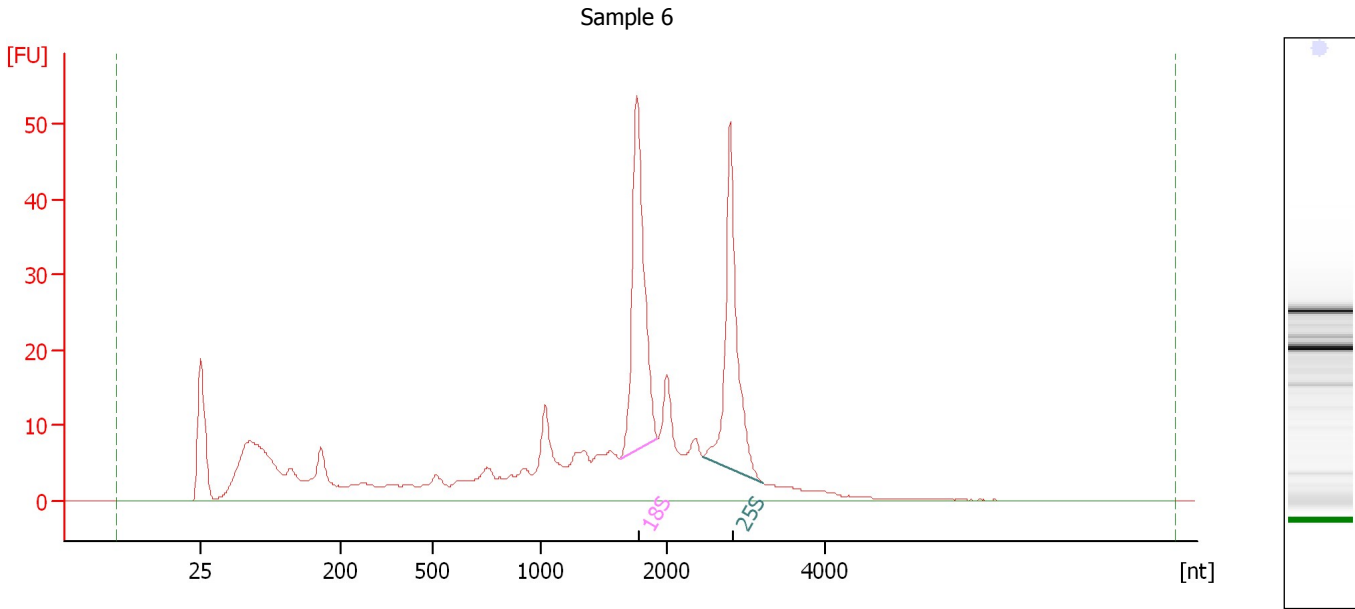
**Fragment table for sample 5 : Sample 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,640	1,946	155.5	24.0
25S	2,626	3,256	183.5	28.3

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Sample 6**

RNA Area: 454.9                      RNA Integrity Number (RIN): 7.2 (B.02.08)  
RNA Concentration: 215 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.8                      Result Flagging Label: RIN: 7.20

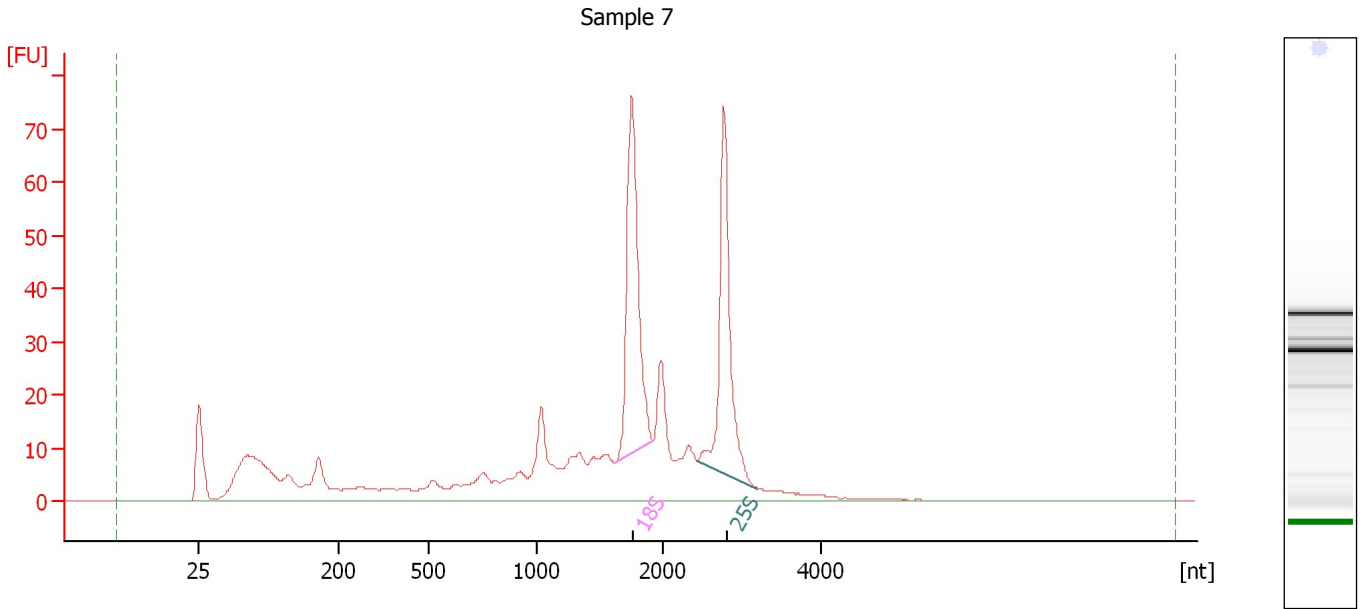
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,630	1,928	69.2	15.2
25S	2,452	3,217	57.6	12.7

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Sample 7**

RNA Area:	567.4	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	269 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]:	0.8	Result Flagging Label:	RIN: 7.20

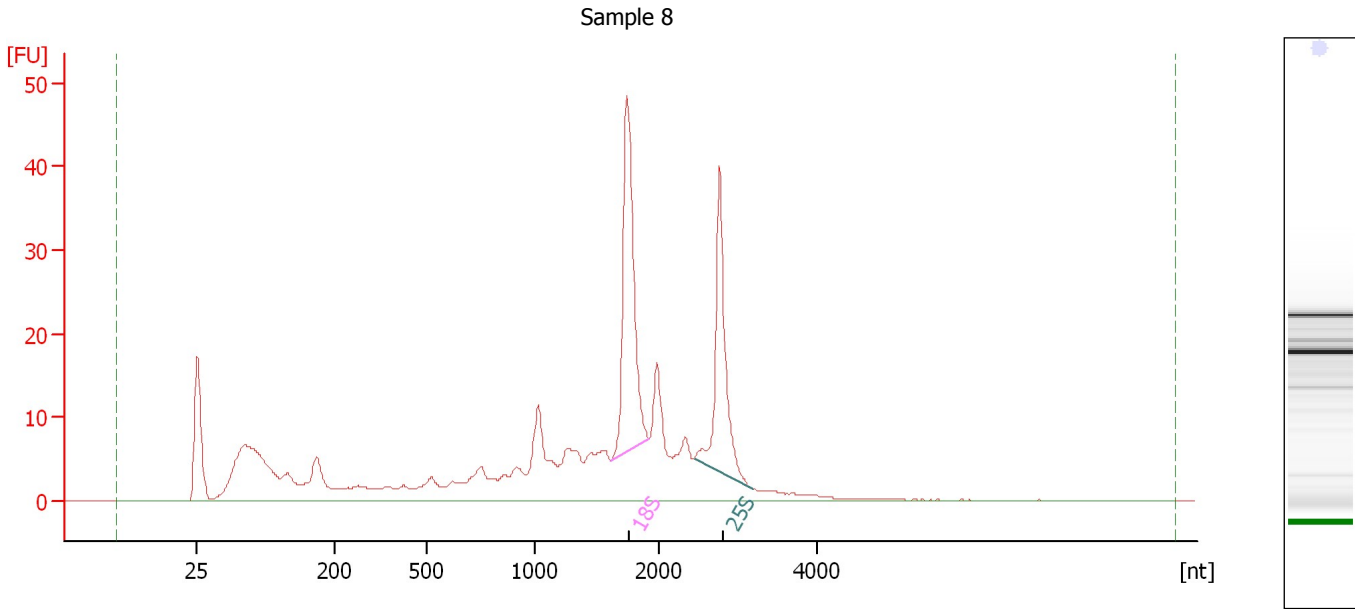
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	1,918	91.8	16.2
25S	2,438	3,194	76.9	13.6

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Sample 8**

RNA Area:	372.0	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	176 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]:	0.7	Result Flagging Label:	RIN:7

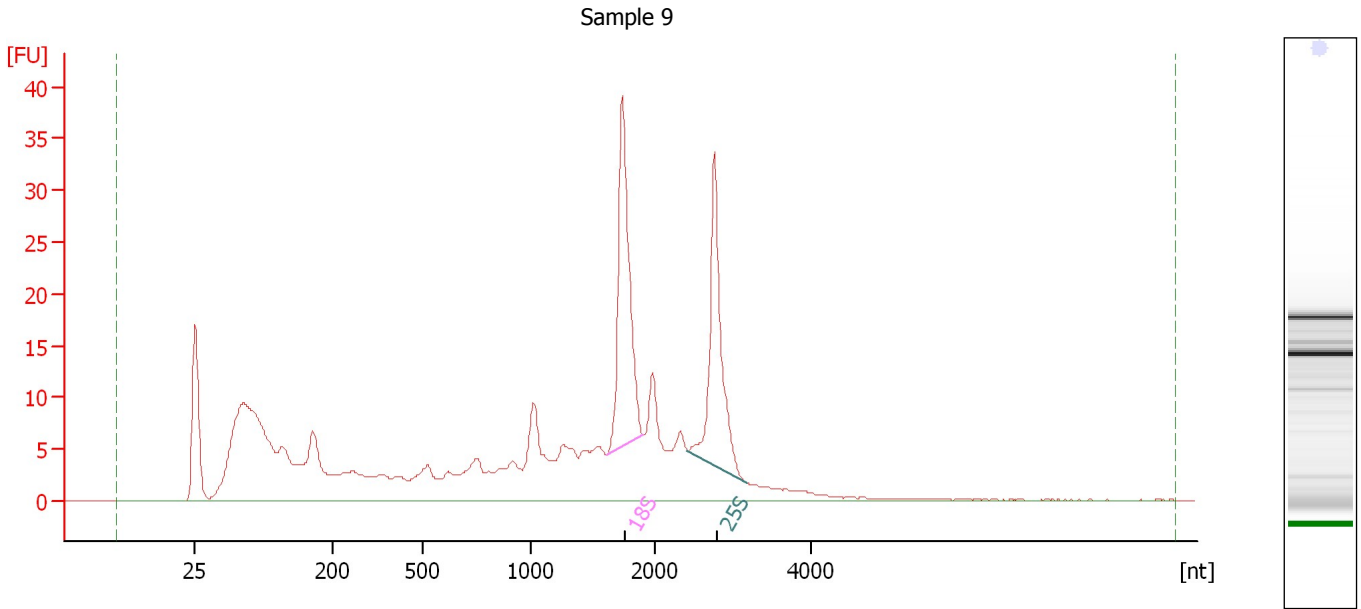
**Fragment table for sample 8 : Sample 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,925	55.0	14.8
25S	2,452	3,197	39.9	10.7

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Sample 9**

RNA Area: 391.4                      RNA Integrity Number (RIN): 6.9 (B.02.08)  
RNA Concentration: 185 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.8                      Result Flagging Label: RIN: 6.90

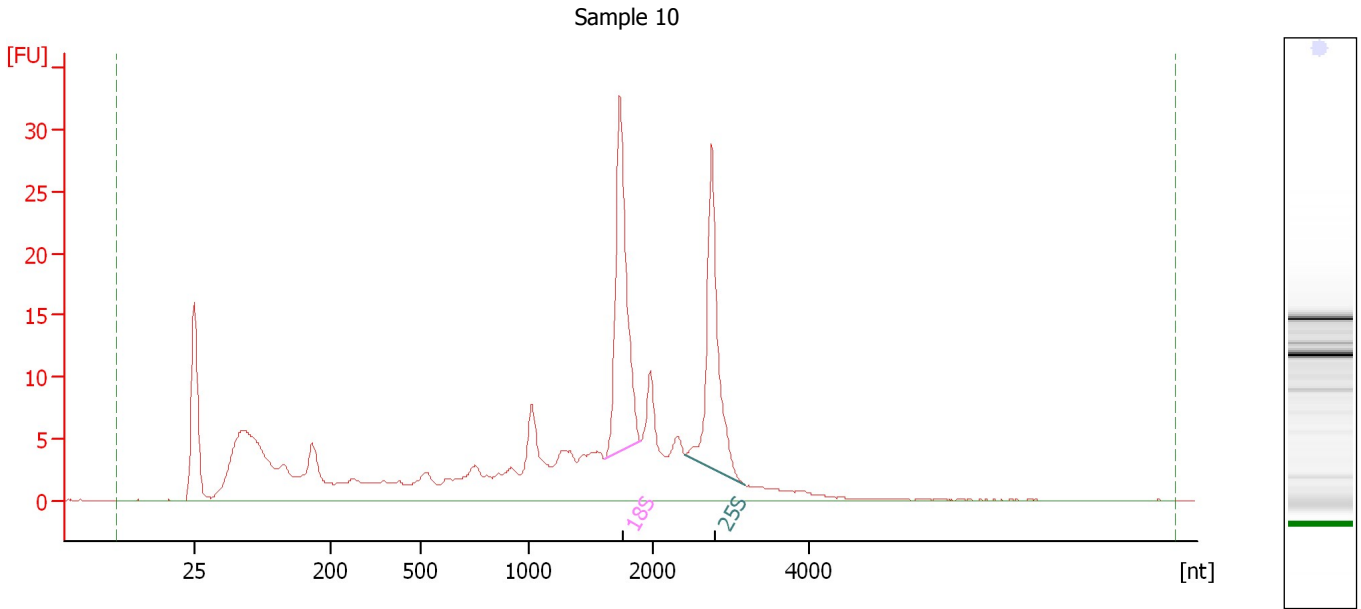
**Fragment table for sample 9 : Sample 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,613	1,906	46.0	11.8
25S	2,424	3,173	37.9	9.7

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Sample 10**

RNA Area:	280.1	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	133 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]:	0.8	Result Flagging Label:	RIN: 7.10

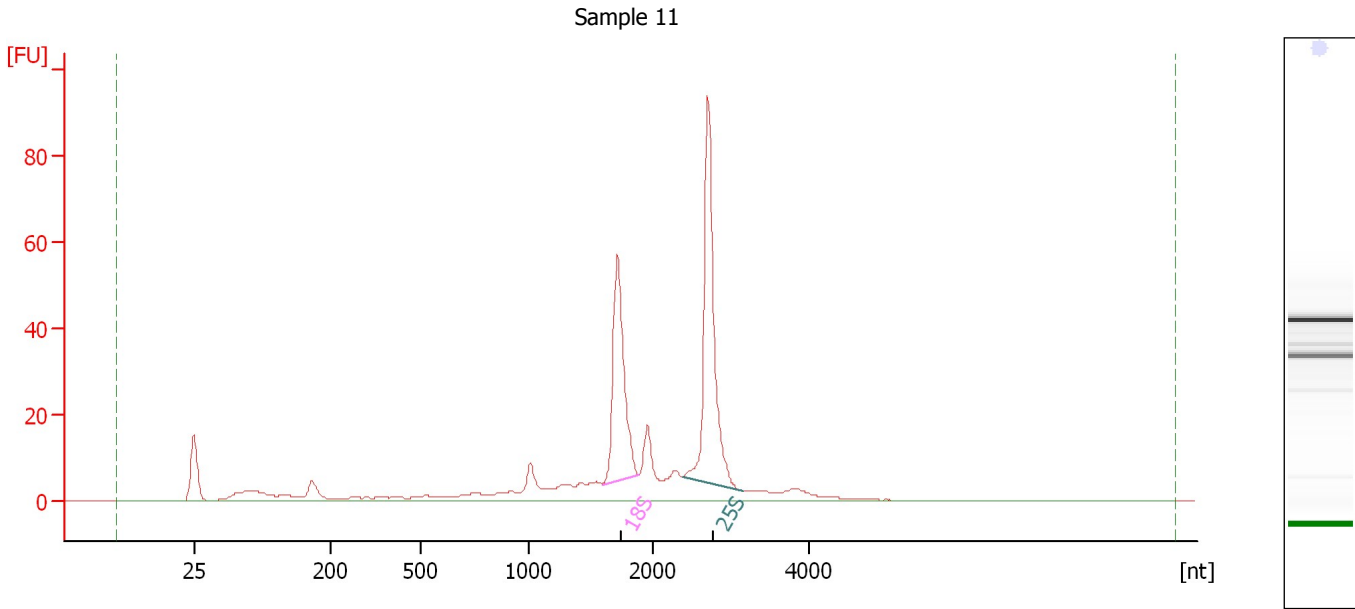
**Fragment table for sample 10 : Sample 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,620	1,906	38.7	13.8
25S	2,424	3,174	31.7	11.3

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Sample 11**

RNA Area:	364.7	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	173 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: 8.70

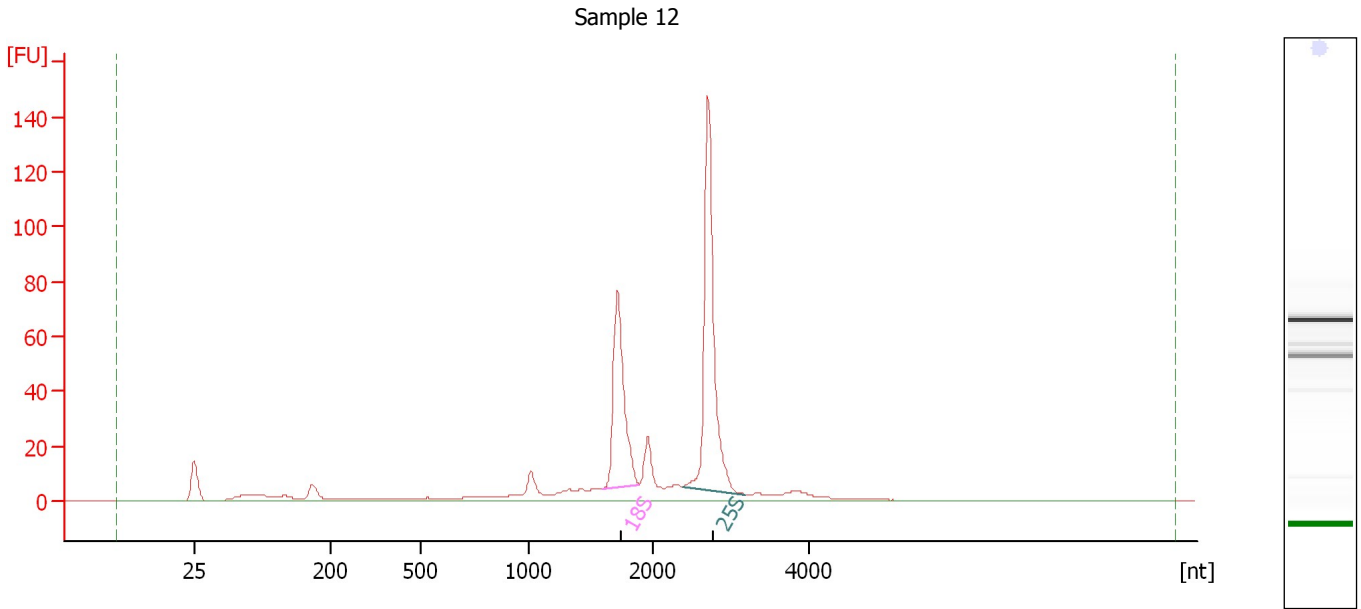
**Fragment table for sample 11 : Sample 11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,594	1,888	69.2	19.0
25S	2,383	3,161	97.4	26.7

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : Sample 12**

RNA Area: 445.7      RNA Integrity Number (RIN): 9 (B.02.08)  
RNA Concentration: 211 ng/μl      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.6      Result Flagging Label: RIN:9

**Fragment table for sample 12 : Sample 12**

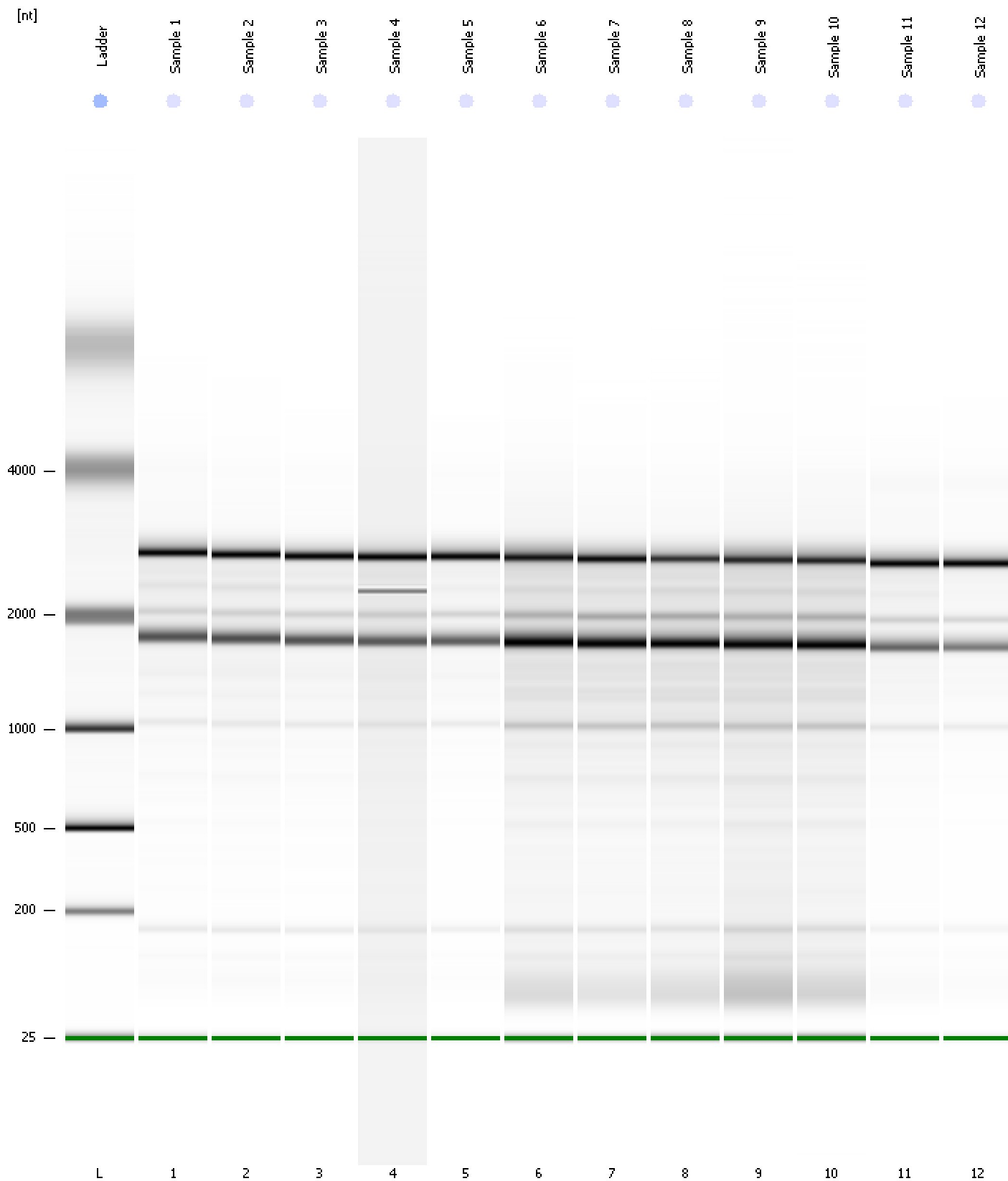
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,594	1,897	93.6	21.0
25S	2,397	3,174	147.6	33.1



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Gel Image**



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-26\2018-04-26\_004.xad

Created: 4/26/2018 3:36:59 PM  
Modified: 4/26/2018 4:00:49 PM

**Curves**

**Standard Curve**

