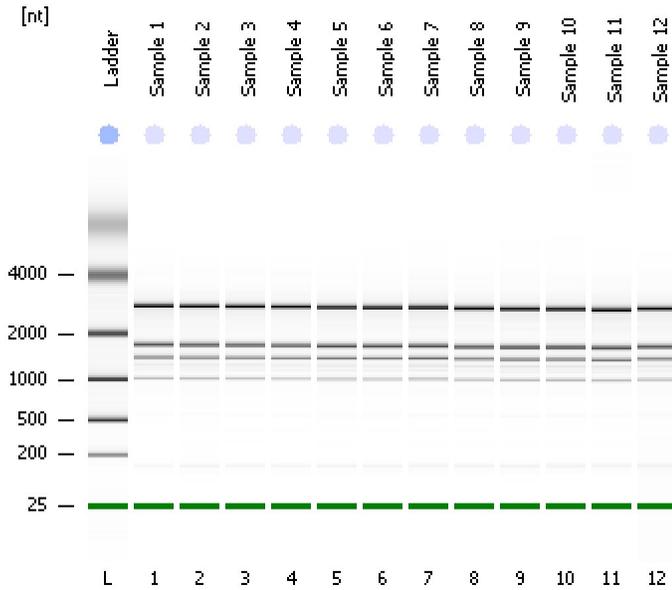


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
Modified: 5/20/2015 12:58:03 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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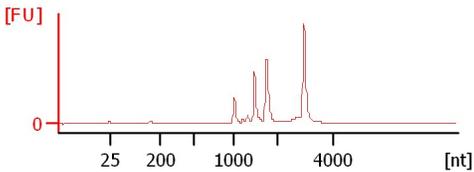
#### Chip Information:

Chip Lot #:

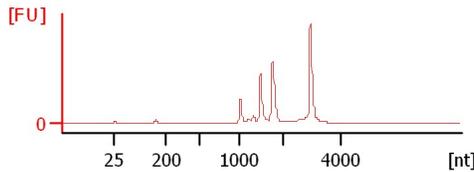
Reagent Kit Lot #:

Chip Comments:

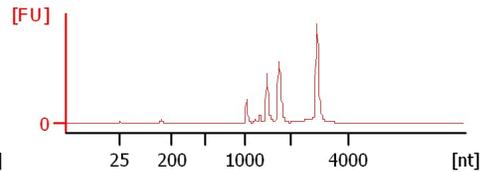
**Sample 1**  
RIN: 7.80



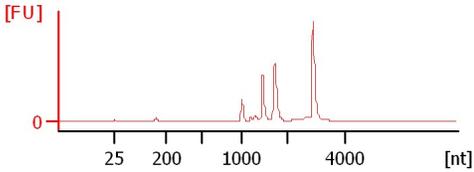
**Sample 2**  
RIN: 7.80



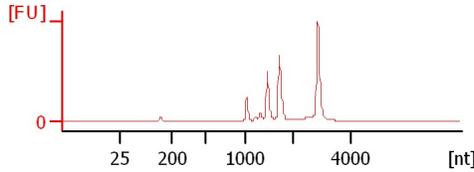
**Sample 3**  
RIN: 7.90



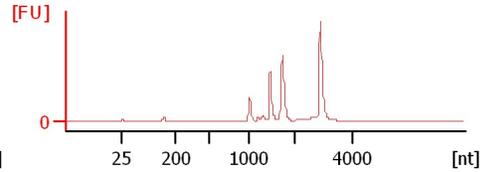
**Sample 4**  
RIN: 8



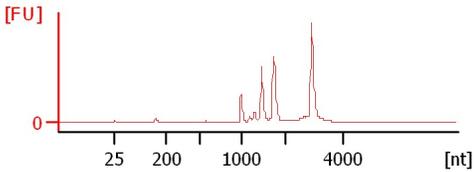
**Sample 5**  
RIN: 7.70



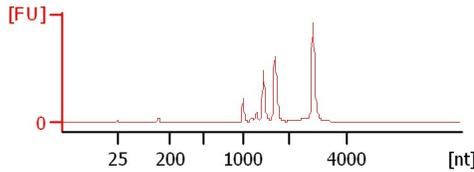
**Sample 6**  
RIN: 7.90



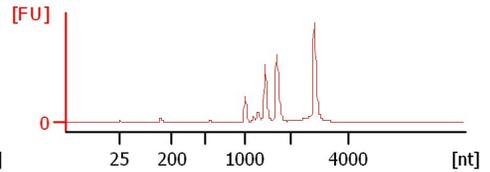
**Sample 7**  
RIN: 7.70



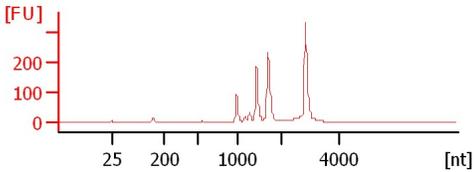
**Sample 8**  
RIN: 7.80



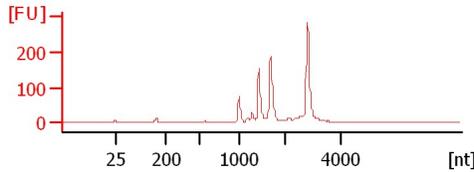
**Sample 9**  
RIN: 7.70



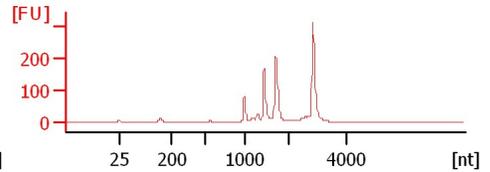
**Sample 10**  
RIN: 7.80



**Sample 11**  
RIN: 7.80



**Sample 12**  
RIN: 7.80



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
 Modified: 5/20/2015 12:58:03 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 7.80	
Sample 2		✓	RIN: 7.80	
Sample 3		✓	RIN: 7.90	
Sample 4		✓	RIN:8	
Sample 5		✓	RIN: 7.70	
Sample 6		✓	RIN: 7.90	
Sample 7		✓	RIN: 7.70	
Sample 8		✓	RIN: 7.80	
Sample 9		✓	RIN: 7.70	
Sample 10		✓	RIN: 7.80	
Sample 11		✓	RIN: 7.80	
Sample 12		✓	RIN: 7.80	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
Modified: 5/20/2015 12:58:03 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/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

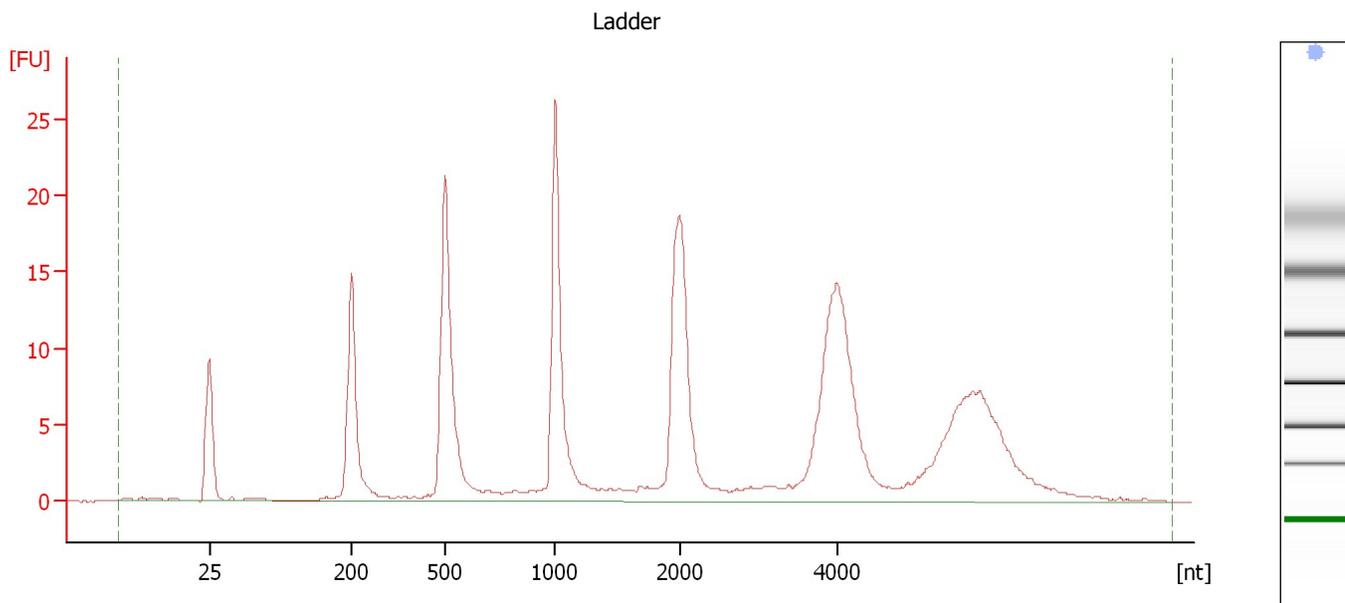
**Ladder**

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

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
Modified: 5/20/2015 12:58:03 PM

**Electropherogram Summary**



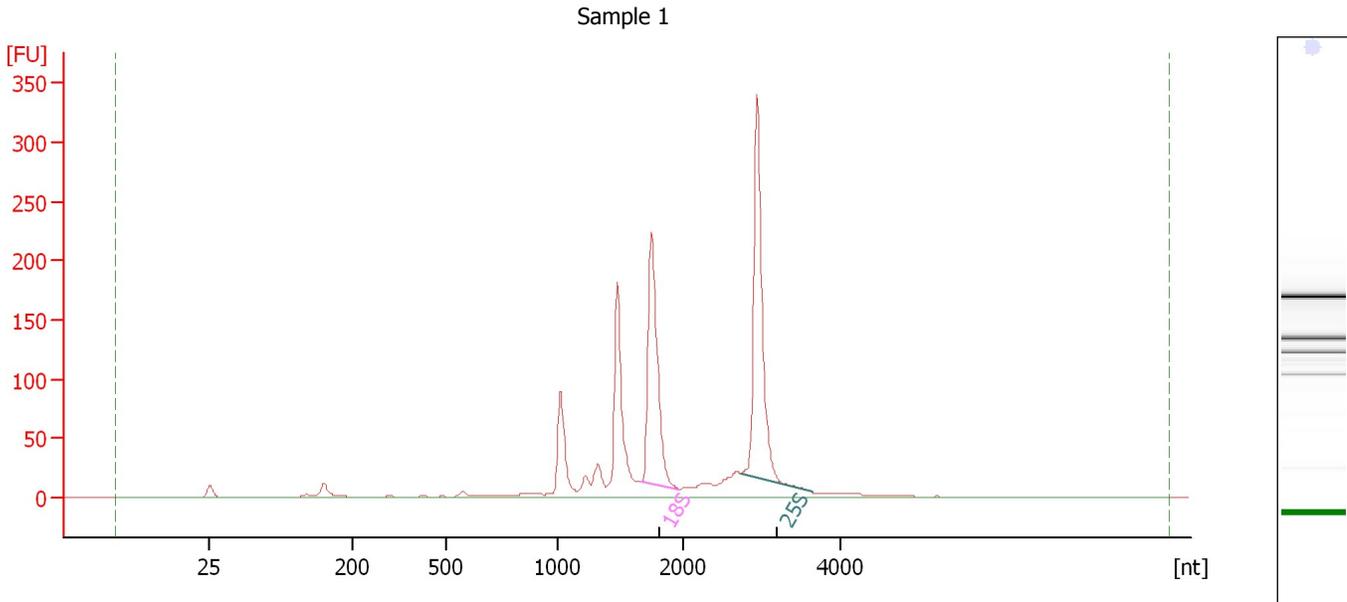
**Overall Results for Ladder**

RNA Area:	246.6	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:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
Modified: 5/20/2015 12:58:03 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,183.4	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	720 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

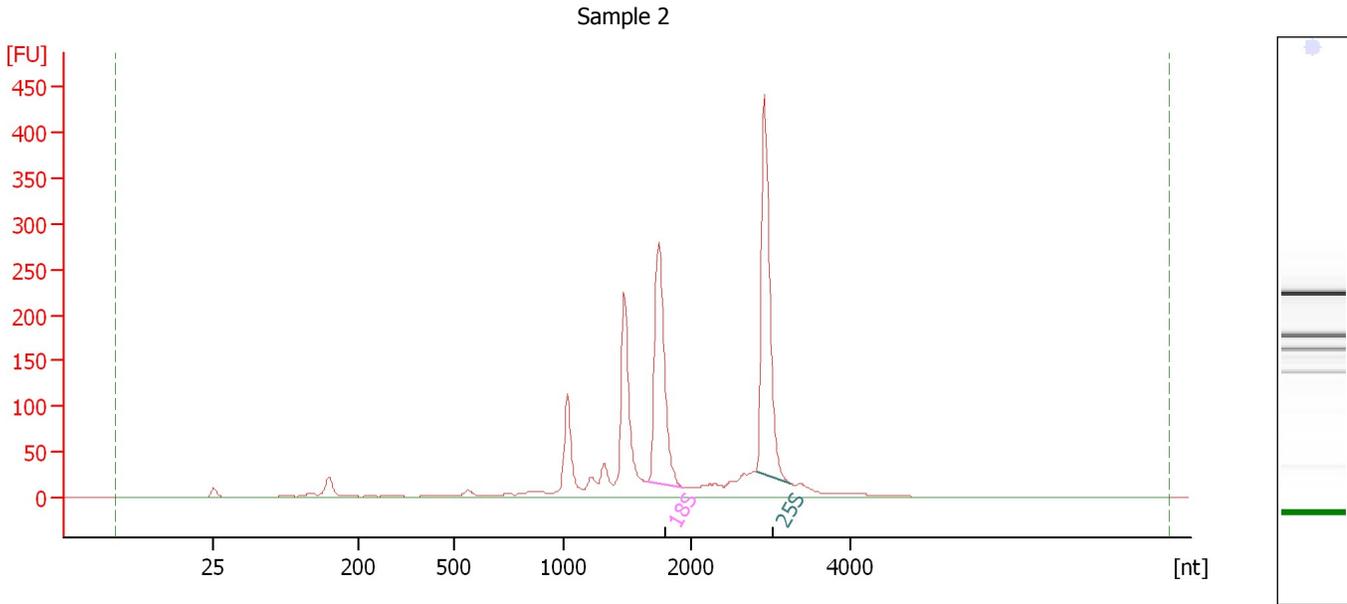
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,670	1,967	243.5	20.6
25S	2,741	3,641	302.4	25.6

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
Modified: 5/20/2015 12:58:03 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,554.8	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	946 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

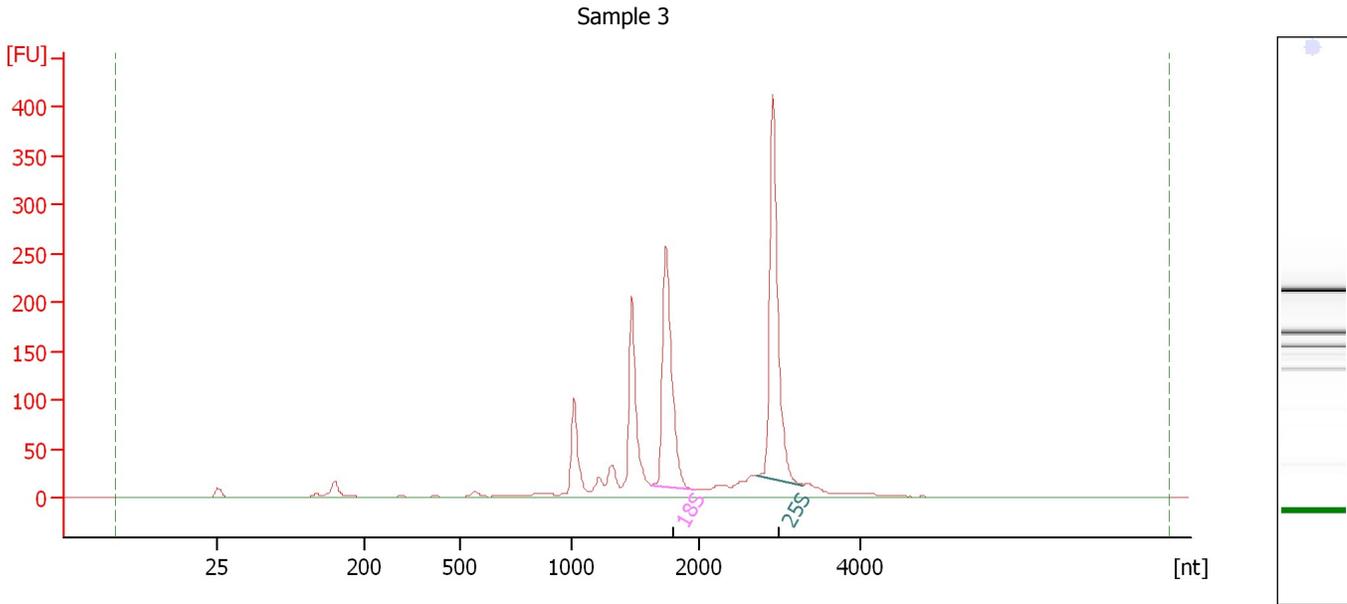
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	1,945	307.6	19.8
25S	2,818	3,258	366.5	23.6

Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
 Modified: 5/20/2015 12:58:03 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,357.3	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	826 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]:	1.3	Result Flagging Label:	RIN: 7.90

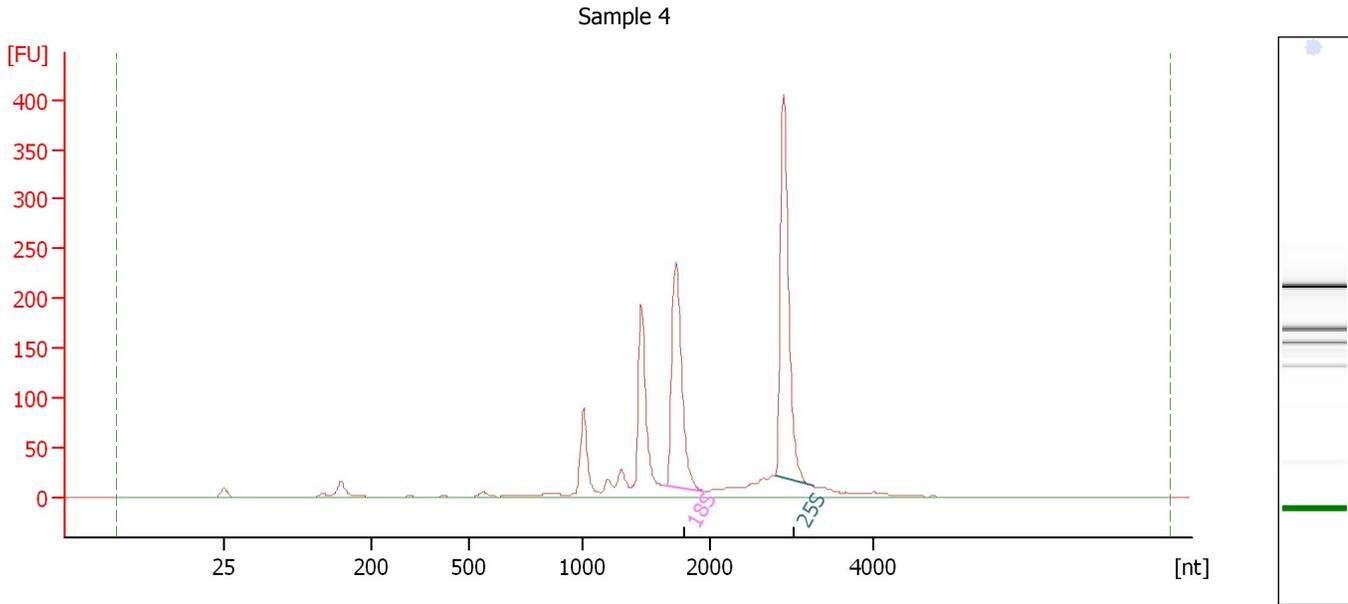
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,630	1,972	282.0	20.8
25S	2,723	3,291	356.0	26.2

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
Modified: 5/20/2015 12:58:03 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,240.3	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	755 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]:	1.3	Result Flagging Label:	RIN:8

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

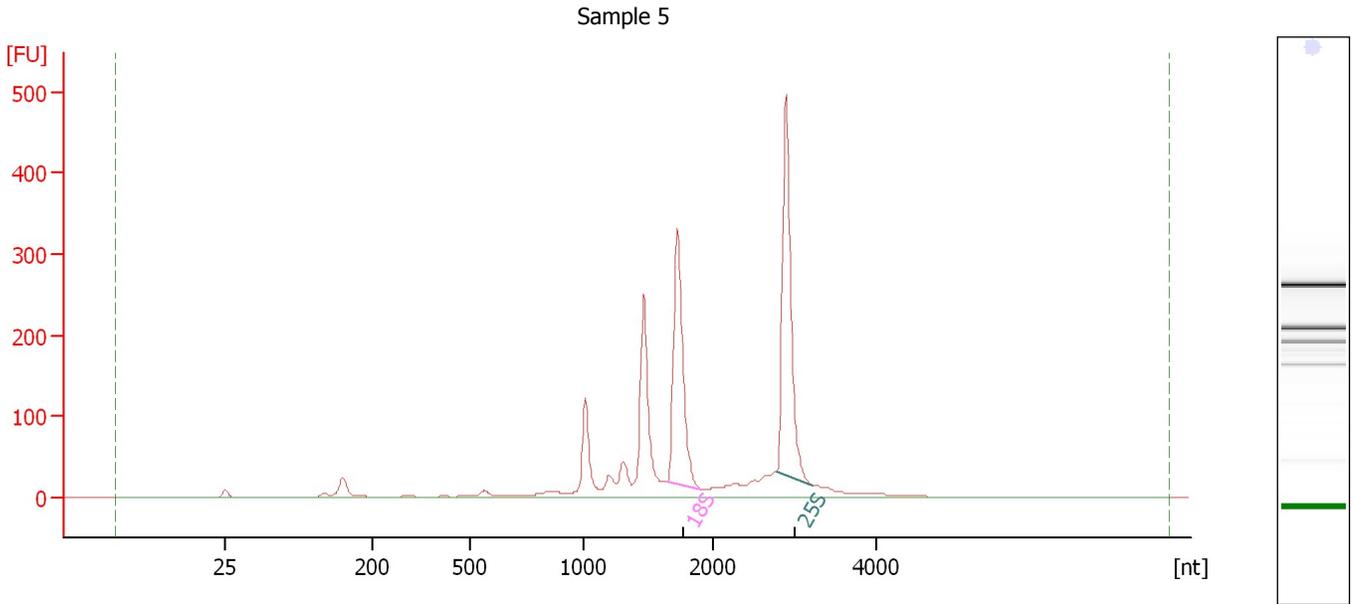
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,653	1,959	260.9	21.0
25S	2,798	3,269	328.0	26.4



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
Modified: 5/20/2015 12:58:03 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,690.8	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	1,029 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: 7.70

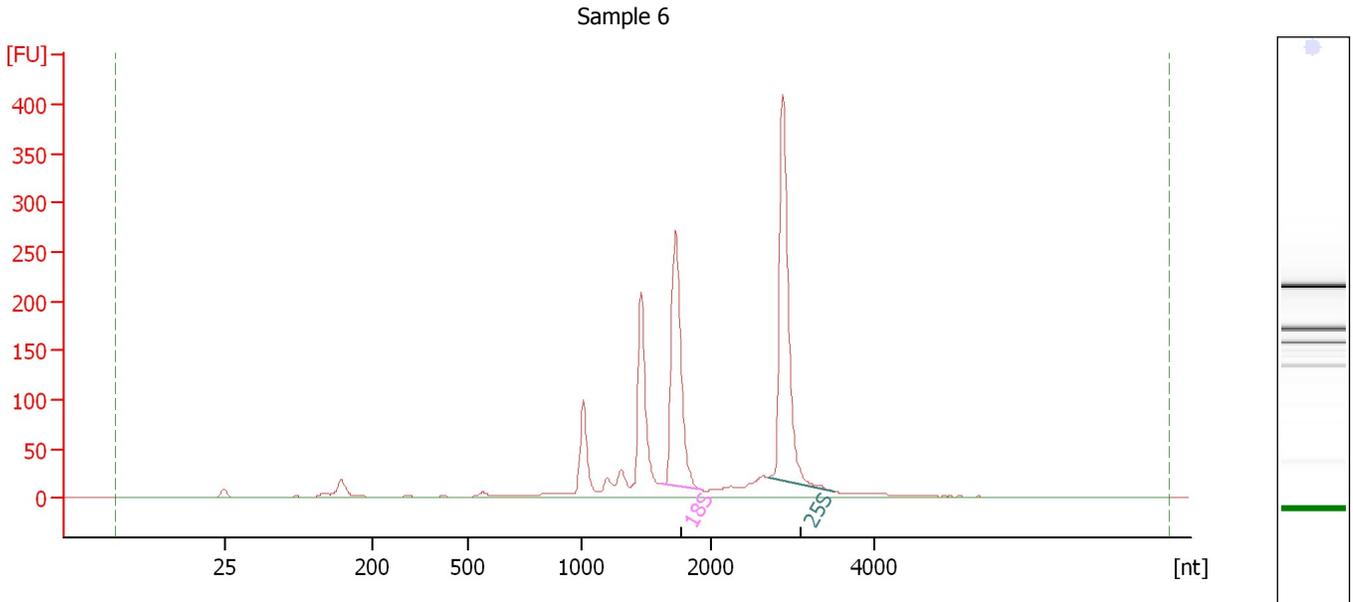
**Fragment table for sample 5 : Sample 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	1,911	345.8	20.5
25S	2,784	3,227	411.2	24.3

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
Modified: 5/20/2015 12:58:03 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,350.2	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	821 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: 7.90

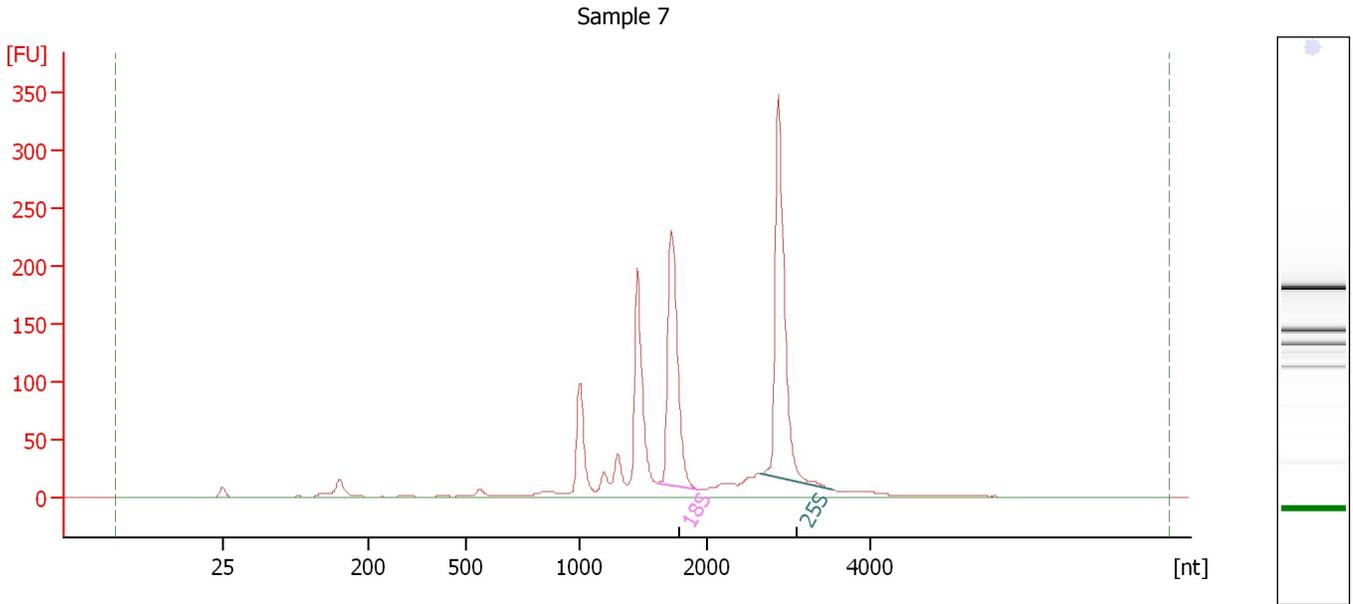
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,935	295.0	21.8
25S	2,693	3,502	363.9	27.0

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
Modified: 5/20/2015 12:58:03 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,284.0	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	781 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]:	1.3	Result Flagging Label:	RIN: 7.70

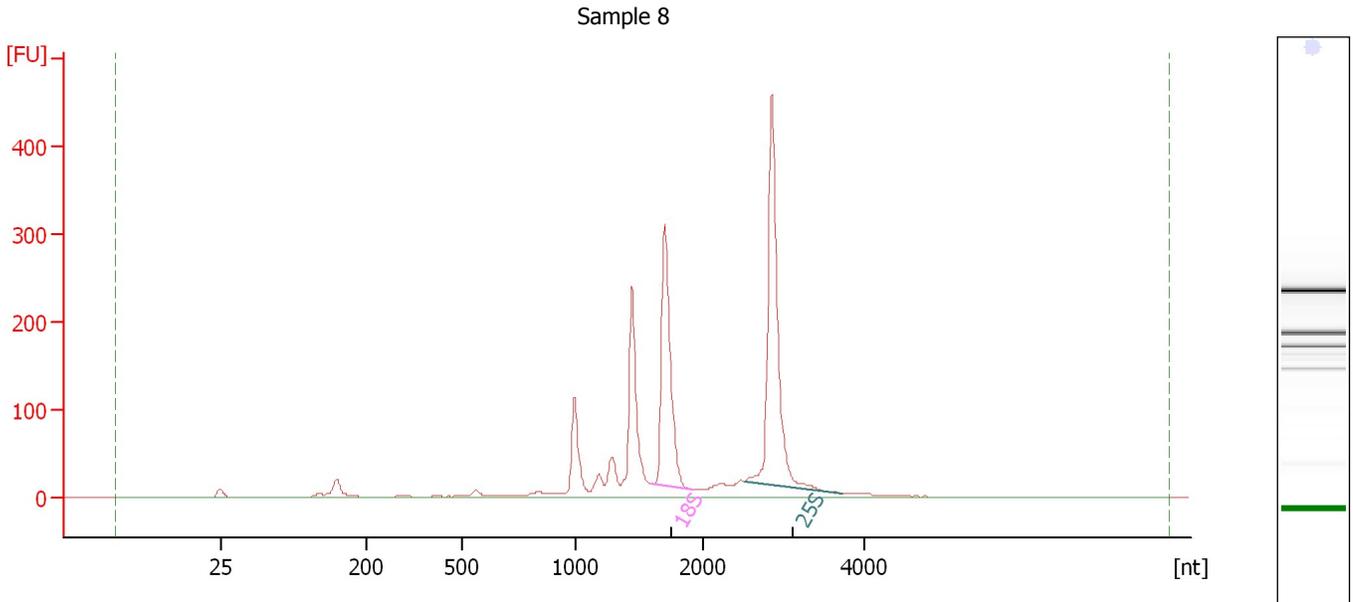
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	1,942	251.7	19.6
25S	2,668	3,533	327.8	25.5

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
Modified: 5/20/2015 12:58:03 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,599.2	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	973 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

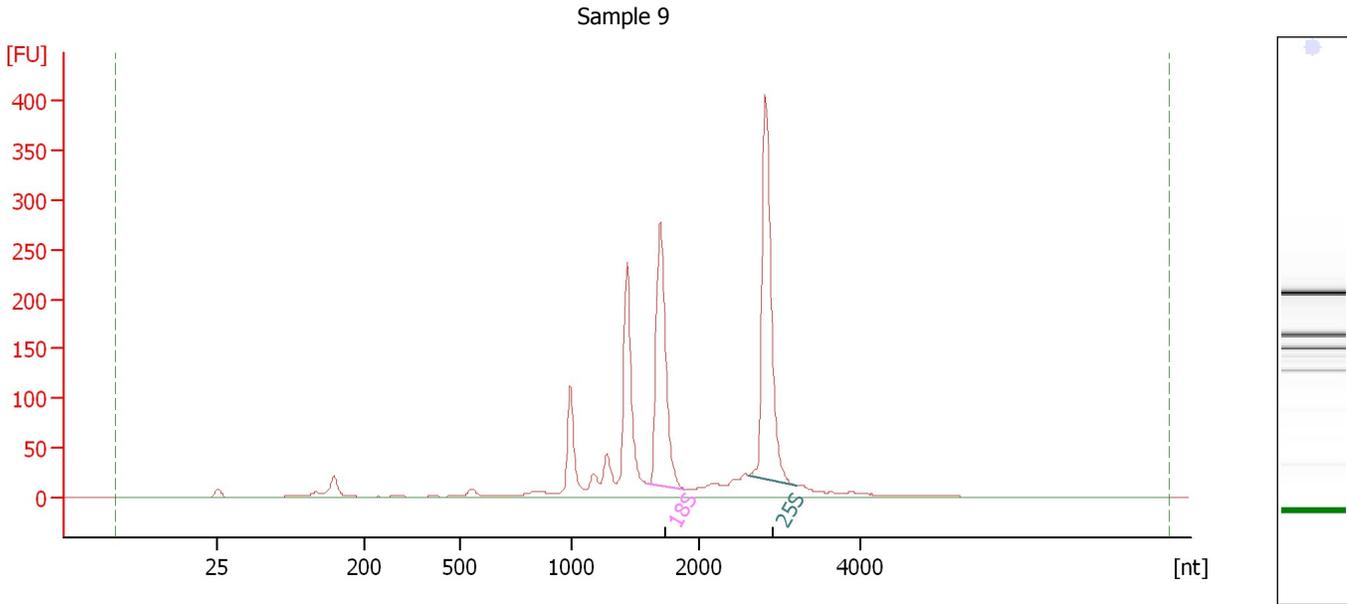
**Fragment table for sample 8 : Sample 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,599	1,924	326.7	20.4
25S	2,511	3,721	461.9	28.9

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
Modified: 5/20/2015 12:58:03 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,490.2	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	907 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: 7.70

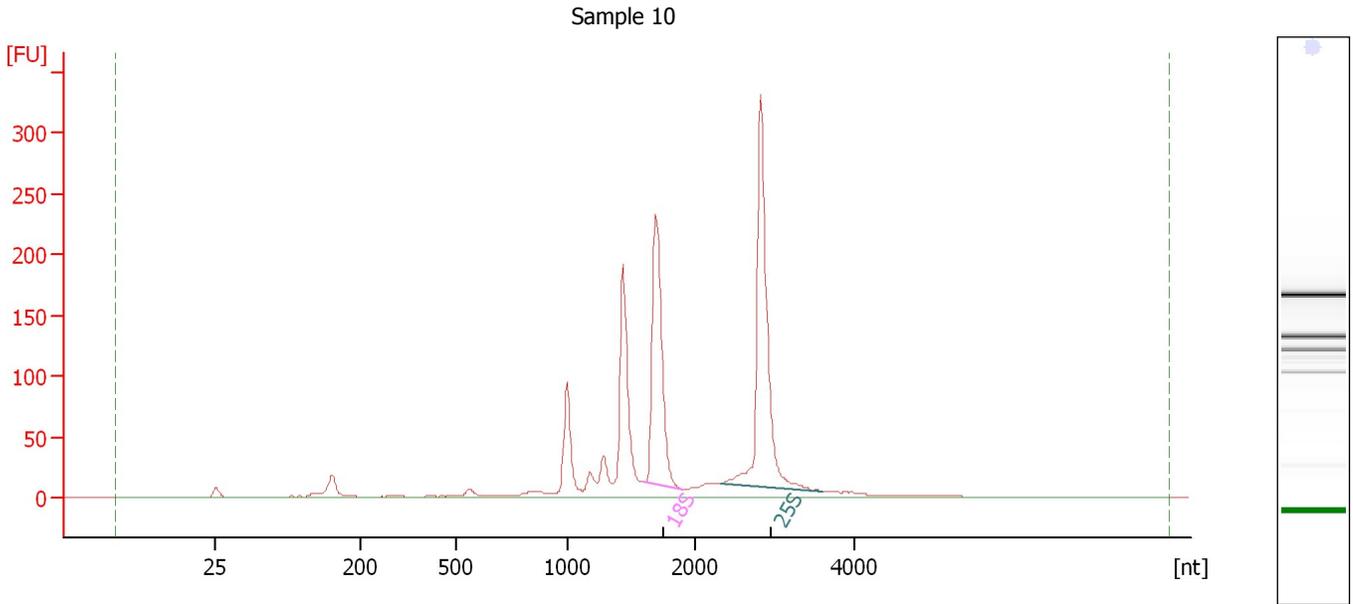
**Fragment table for sample 9 : Sample 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,597	1,897	302.2	20.3
25S	2,617	3,225	372.5	25.0

Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
 Modified: 5/20/2015 12:58:03 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,245.7	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	758 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

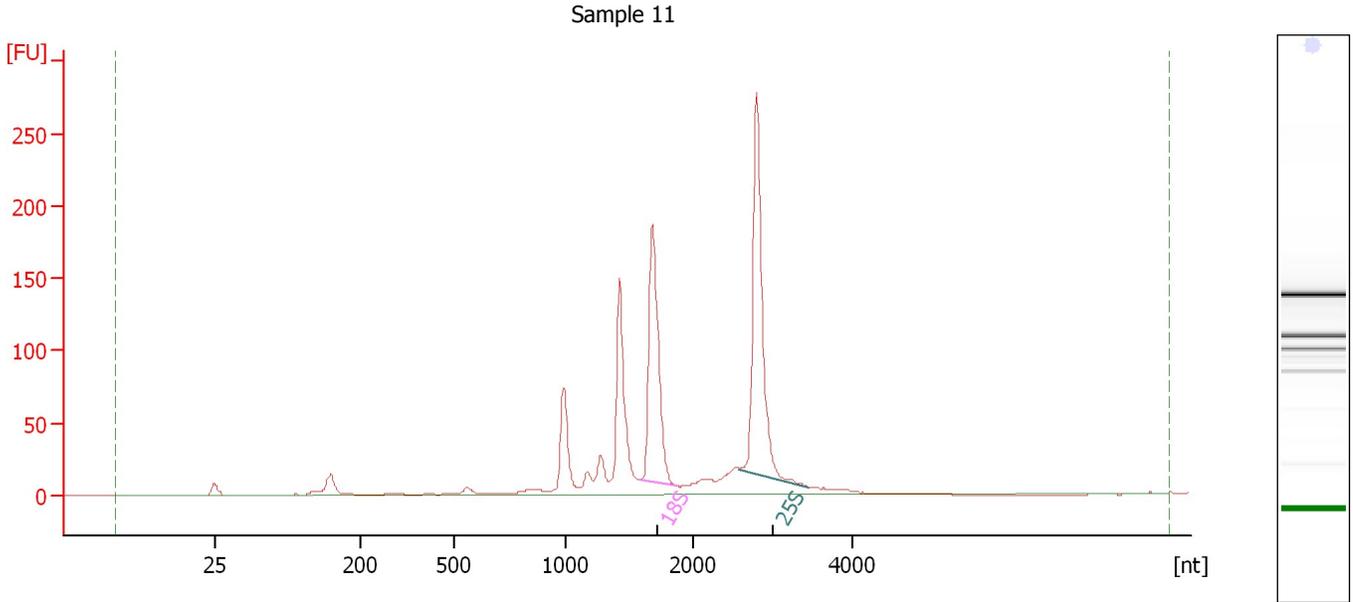
**Fragment table for sample 10 : Sample 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,585	1,912	253.7	20.4
25S	2,326	3,599	363.6	29.2

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
Modified: 5/20/2015 12:58:03 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	968.1	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	589 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]:	1.3	Result Flagging Label:	RIN: 7.80

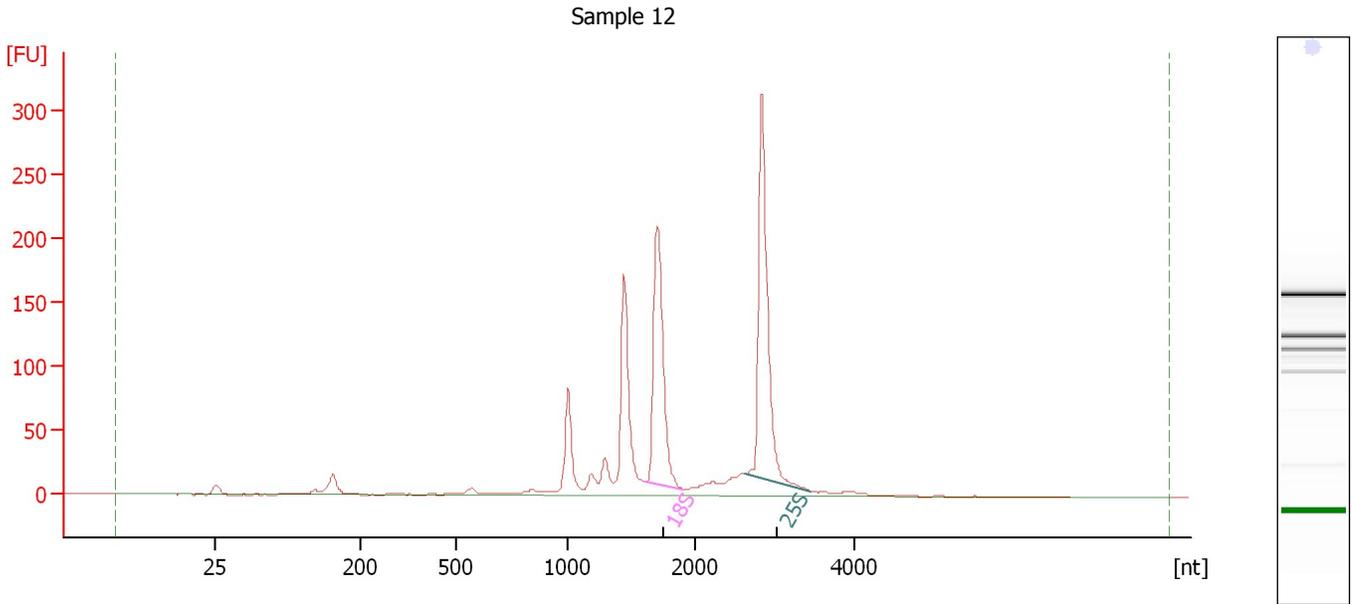
**Fragment table for sample 11 : Sample 11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,575	1,878	207.9	21.5
25S	2,578	3,442	270.7	28.0

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
Modified: 5/20/2015 12:58:03 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 1,064.6      RNA Integrity Number (RIN): 7.8 (B.02.08)  
RNA Concentration: 648 ng/μl      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.3      Result Flagging Label: RIN: 7.80

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,602	1,912	229.1	21.5
25S	2,631	3,453	288.6	27.1



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-20\2015-05-20\_003.xad

Created: 5/20/2015 12:34:12 PM  
Modified: 5/20/2015 12:58:03 PM

**Gel Image**

