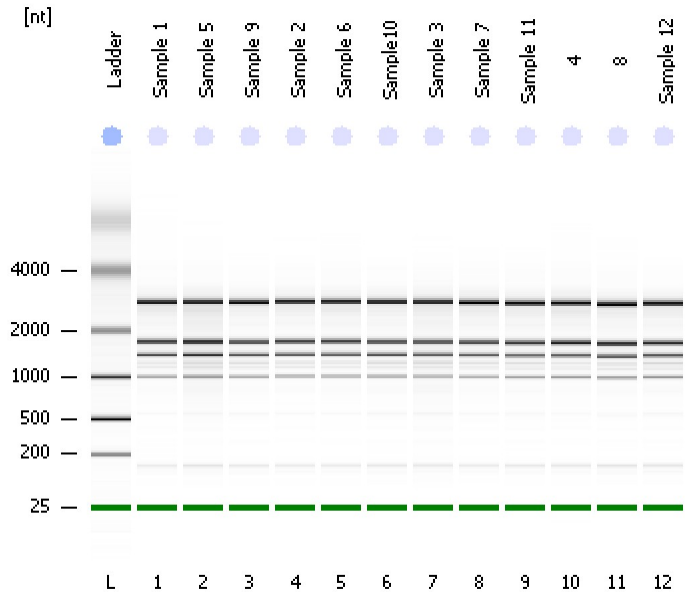


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
Modified: 5/13/2015 2:14:44 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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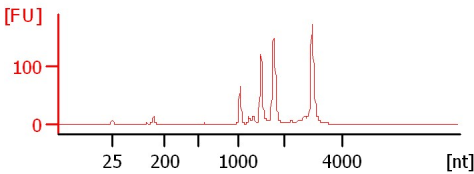
Chip Information:

Chip Lot #:

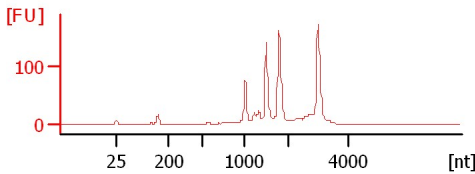
Reagent Kit Lot #:

Chip Comments:

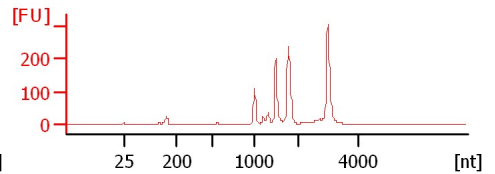
**Sample 1**  
1  
RIN: 7.20



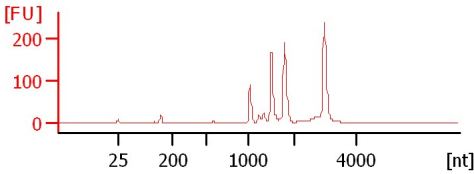
**Sample 5**  
2  
RIN: 6.60



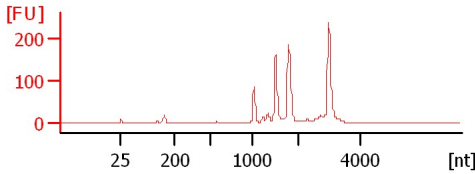
**Sample 9**  
3  
RIN: 7.30



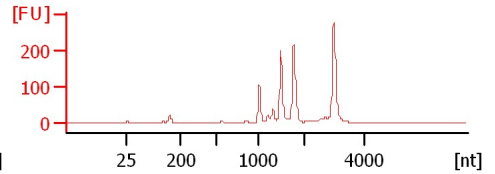
**Sample 2**  
4  
RIN: 7.30



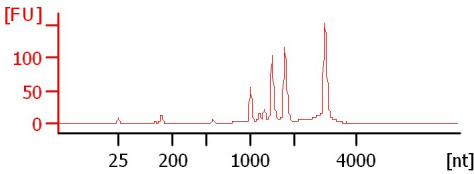
**Sample 6**  
5  
RIN: 7.40



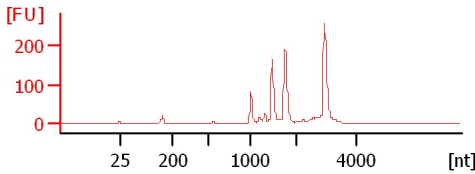
**Sample 10**  
6  
RIN: 7.20



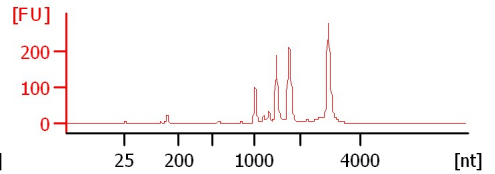
**Sample 3**  
7  
RIN: 7.20



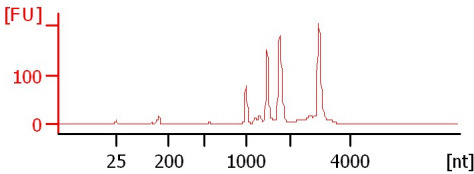
**Sample 7**  
8  
RIN: 7.50



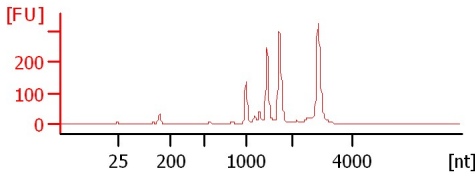
**Sample 11**  
9  
RIN: 7.40



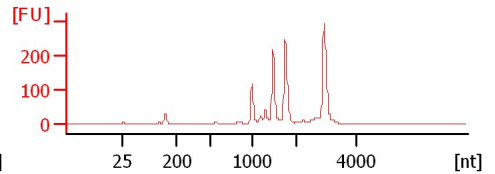
**4**  
10  
RIN: 7.20



**8**  
11  
RIN: 7



**Sample 12**  
RIN: 7.10



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
 Modified: 5/13/2015 2:14:44 PM

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

| Sample Name | Sample Comment | Status | Result Label      | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| Sample 1    | 1              | ✓      | RIN: 7.20         |              |
| Sample 5    | 2              | ✓      | RIN: 6.60         |              |
| Sample 9    | 3              | ✓      | RIN: 7.30         |              |
| Sample 2    | 4              | ✓      | RIN: 7.30         |              |
| Sample 6    | 5              | ✓      | RIN: 7.40         |              |
| Sample10    | 6              | ✓      | RIN: 7.20         |              |
| Sample 3    | 7              | ✓      | RIN: 7.20         |              |
| Sample 7    | 8              | ✓      | RIN: 7.50         |              |
| Sample 11   | 9              | ✓      | RIN: 7.40         |              |
| 4           | 10             | ✓      | RIN: 7.20         |              |
| 8           | 11             | ✓      | RIN:7             |              |
| Sample 12   |                | ✓      | RIN: 7.10         |              |
| Ladder      |                | ✓      | All Other Samples |              |

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
Modified: 5/13/2015 2:14:44 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

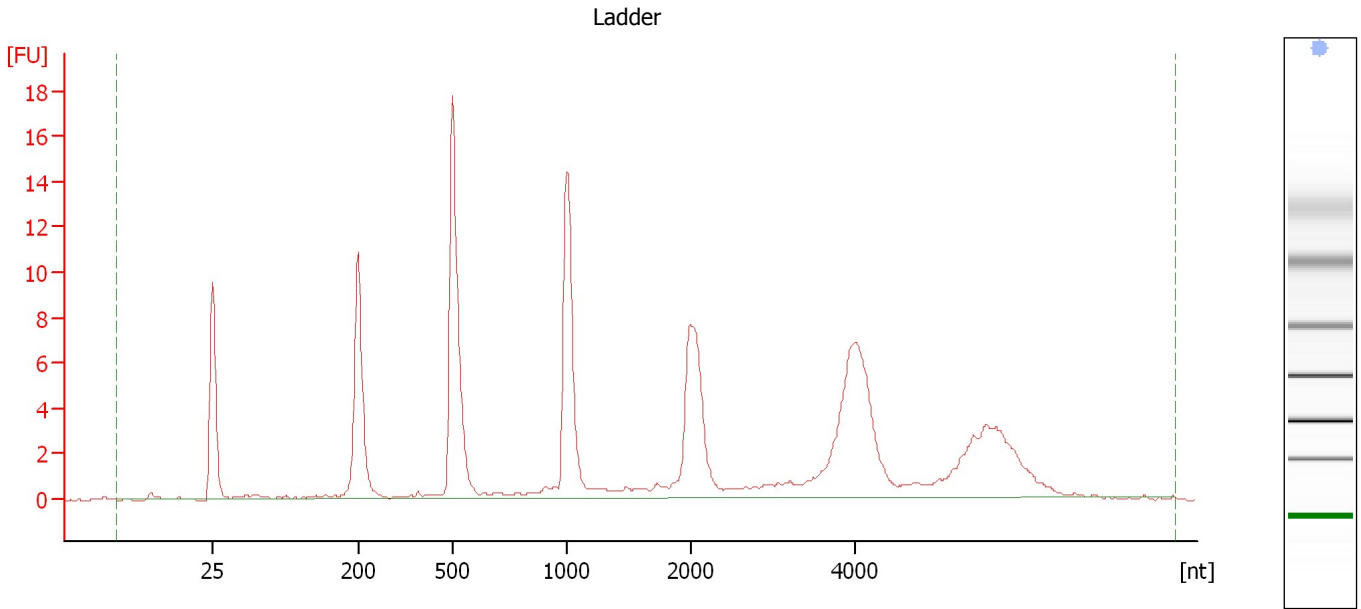
**Ladder**

| 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\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
Modified: 5/13/2015 2:14:44 PM

**Electropherogram Summary**



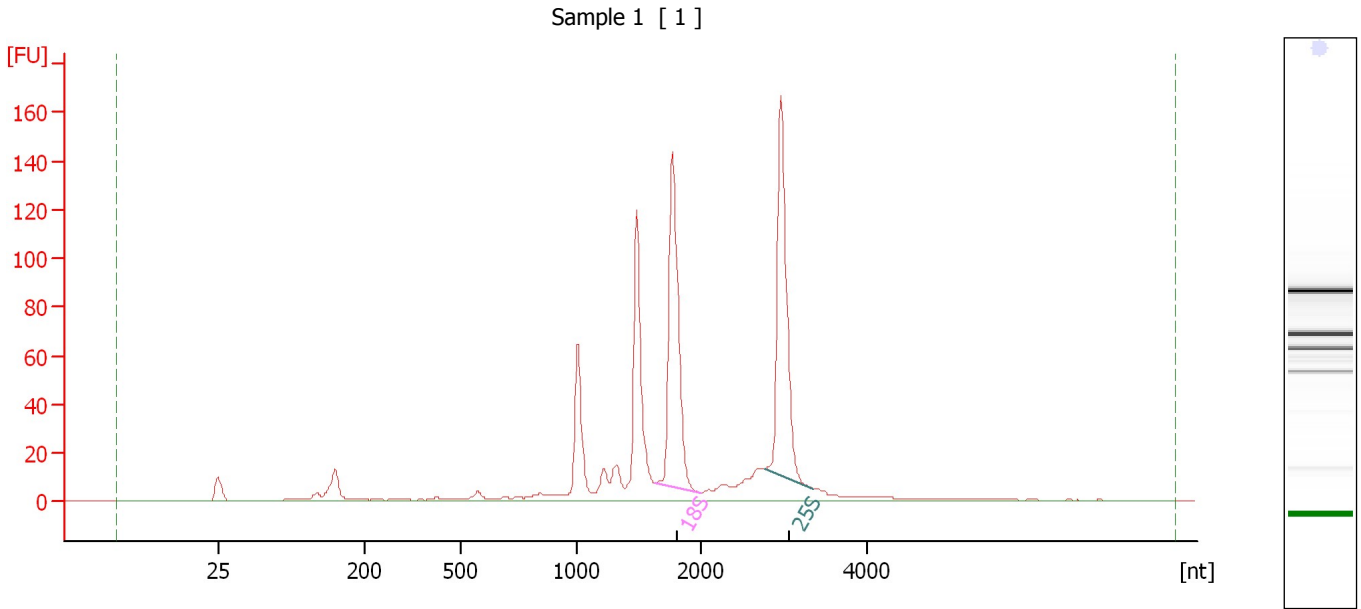
**Overall Results for Ladder**

|                    |           |                        |   |
|--------------------|-----------|------------------------|---|
| RNA Area:          | 127.3     | 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\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
Modified: 5/13/2015 2:14:44 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 707.6                      RNA Integrity Number (RIN): 7.2 (B.02.08)  
RNA Concentration: 834 ng/µl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.0              Result Flagging Label: RIN: 7.20

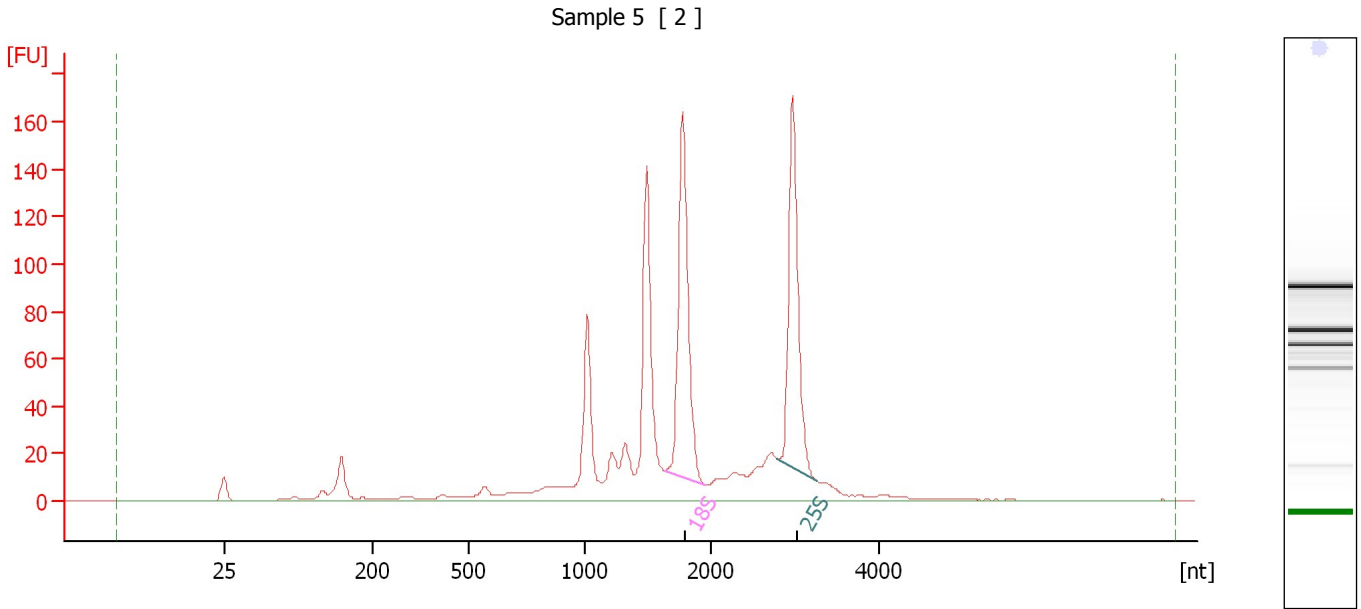
**Fragment table for sample 1 : Sample 1**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 1,636           | 1,994         | 154.7 | 21.9            |
| 25S  | 2,762           | 3,353         | 156.7 | 22.2            |

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
Modified: 5/13/2015 2:14:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sample 5**

|                         |             |                             |   |
|-------------------------|-------------|-----------------------------|---|
| RNA Area:               | 951.4       | RNA Integrity Number (RIN): | 6.6 (B.02.08)   |
| RNA Concentration:      | 1,121 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: 6.60   |

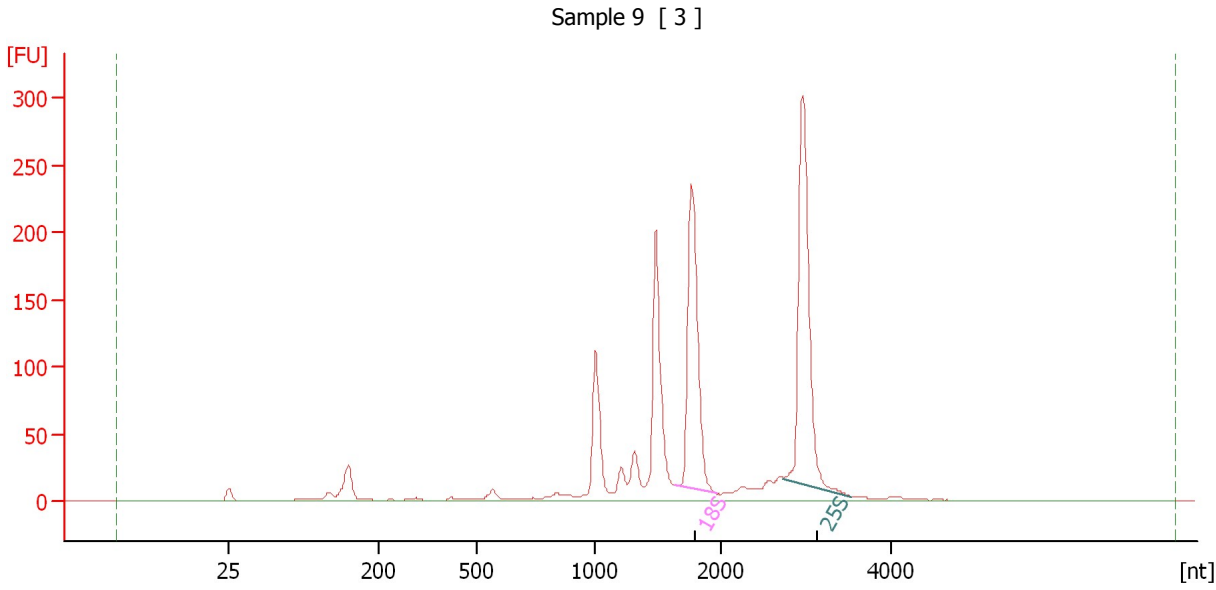
**Fragment table for sample 2 : Sample 5**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 1,634           | 1,955         | 177.5 | 18.7            |
| 25S  | 2,784           | 3,268         | 155.8 | 16.4            |

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
Modified: 5/13/2015 2:14:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sample 9**

|                         |             |                             |   |
|-------------------------|-------------|-----------------------------|---|
| RNA Area:               | 1,240.1     | RNA Integrity Number (RIN): | 7.3 (B.02.08)   |
| RNA Concentration:      | 1,461 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: 7.30   |

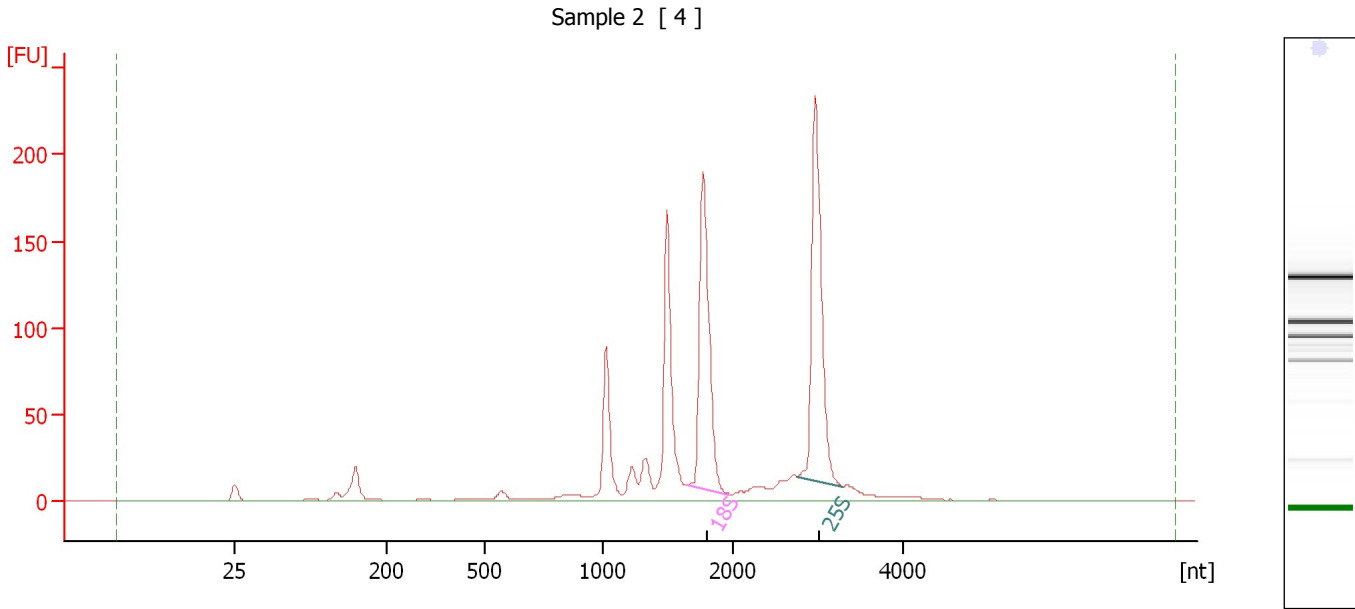
**Fragment table for sample 3 : Sample 9**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 1,640           | 1,958         | 256.3 | 20.7            |
| 25S  | 2,730           | 3,524         | 305.4 | 24.6            |

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
Modified: 5/13/2015 2:14:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Sample 2**

|                         |             |                             |   |
|-------------------------|-------------|-----------------------------|---|
| RNA Area:               | 953.3       | RNA Integrity Number (RIN): | 7.3 (B.02.08)   |
| RNA Concentration:      | 1,123 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: 7.30   |

**Fragment table for sample 4 : Sample 2**

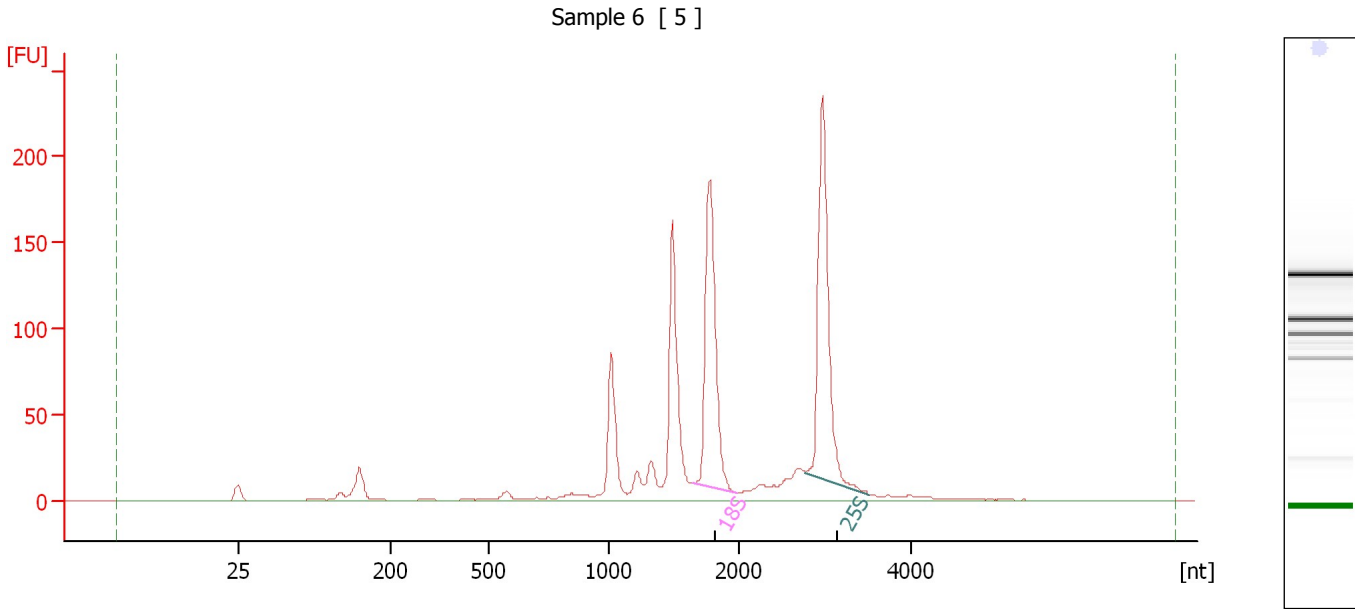
| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 1,647           | 1,978         | 204.6 | 21.5            |
| 25S  | 2,765           | 3,288         | 220.0 | 23.1            |



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
Modified: 5/13/2015 2:14:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Sample 6**

|                         |             |                             |   |
|-------------------------|-------------|-----------------------------|---|
| RNA Area:               | 980.0       | RNA Integrity Number (RIN): | 7.4 (B.02.08)   |
| RNA Concentration:      | 1,155 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: 7.40   |

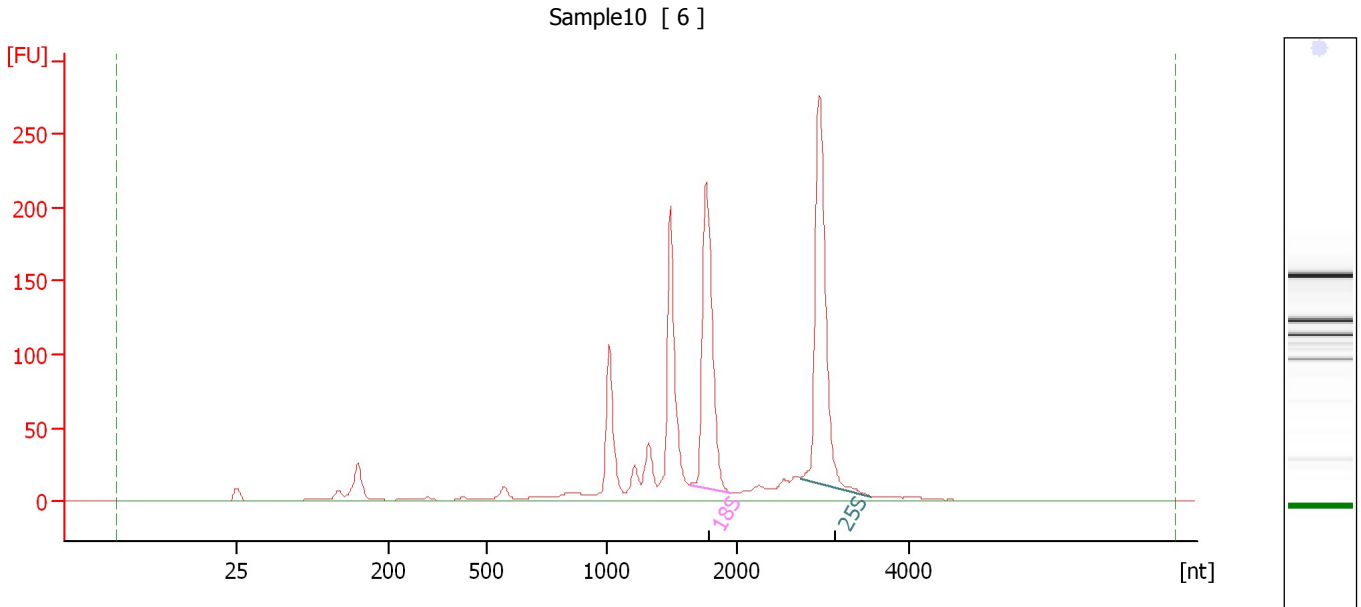
**Fragment table for sample 5 : Sample 6**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 1,651           | 1,996         | 204.3 | 20.8            |
| 25S  | 2,775           | 3,519         | 225.1 | 23.0            |

Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
 Modified: 5/13/2015 2:14:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Sample10**

|                         |             |                             |   |
|-------------------------|-------------|-----------------------------|---|
| RNA Area:               | 1,187.4     | RNA Integrity Number (RIN): | 7.2 (B.02.08)   |
| RNA Concentration:      | 1,399 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: 7.20   |

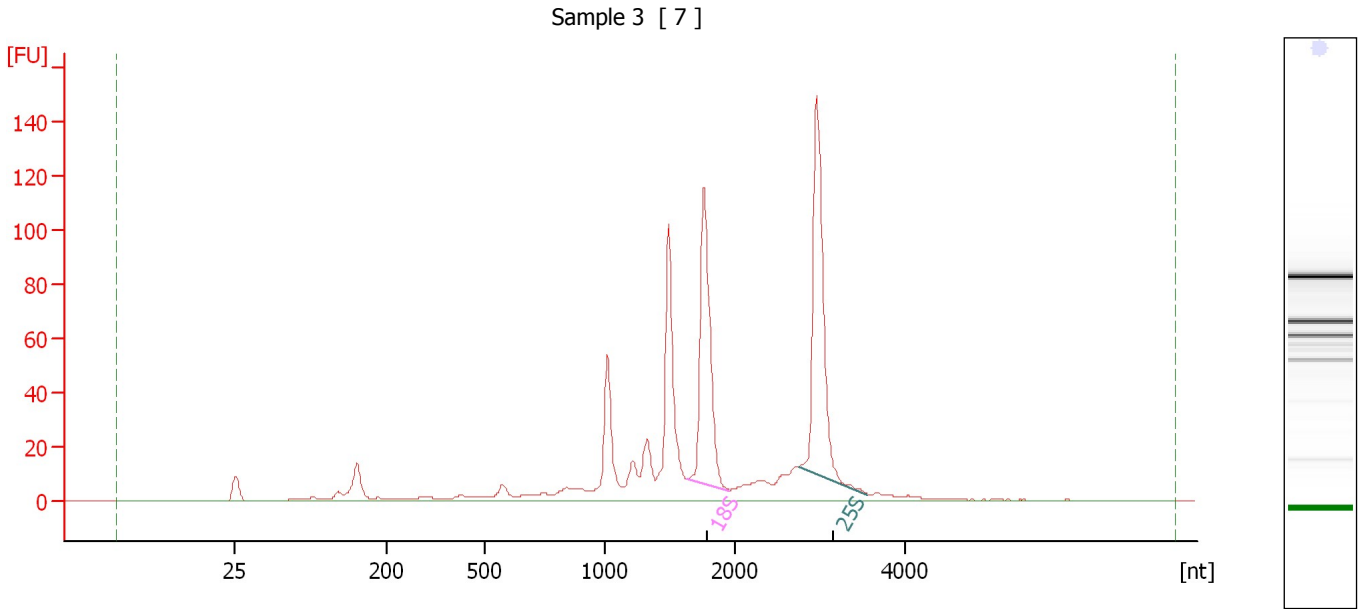
**Fragment table for sample 6 : Sample10**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 1,641           | 1,954         | 235.8 | 19.9            |
| 25S  | 2,751           | 3,558         | 277.2 | 23.3            |

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
Modified: 5/13/2015 2:14:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Sample 3**

|                         |           |                             |   |
|-------------------------|-----------|-----------------------------|---|
| RNA Area:               | 692.6     | RNA Integrity Number (RIN): | 7.2 (B.02.08)   |
| RNA Concentration:      | 816 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: 7.20   |

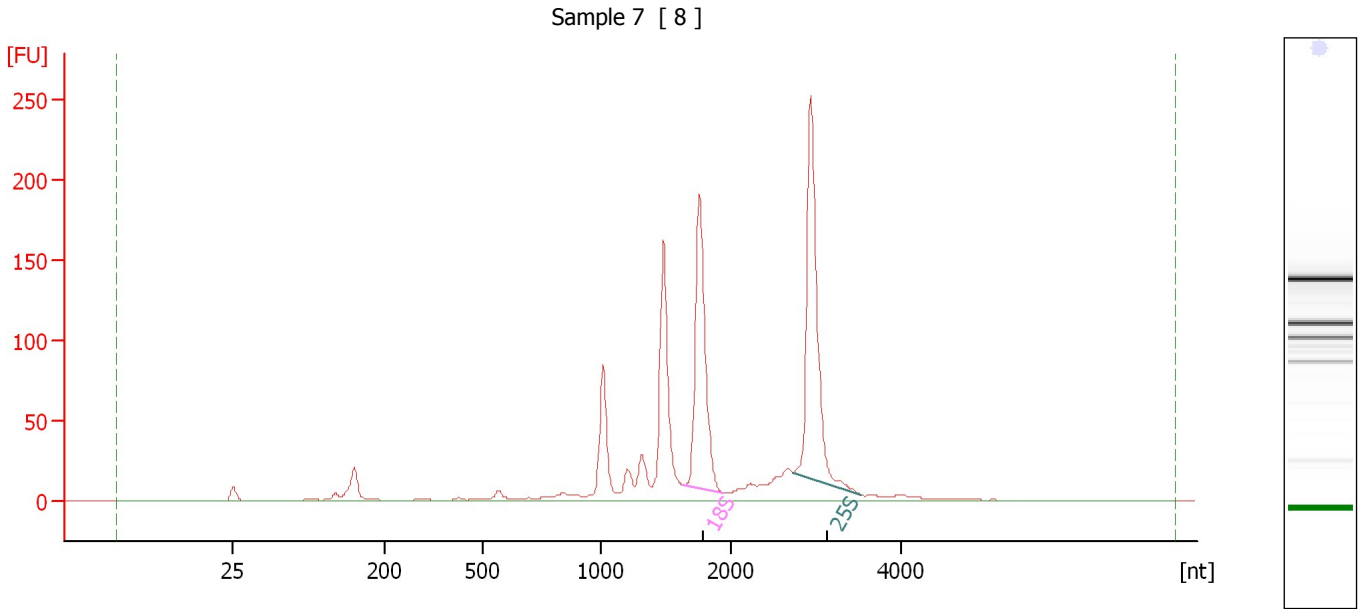
**Fragment table for sample 7 : Sample 3**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 1,640           | 1,962         | 122.5 | 17.7            |
| 25S  | 2,752           | 3,548         | 143.0 | 20.7            |

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
Modified: 5/13/2015 2:14:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Sample 7**

RNA Area: 1,056.9 RNA Integrity Number (RIN): 7.5 (B.02.08)  
RNA Concentration: 1,245 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN: 7.50

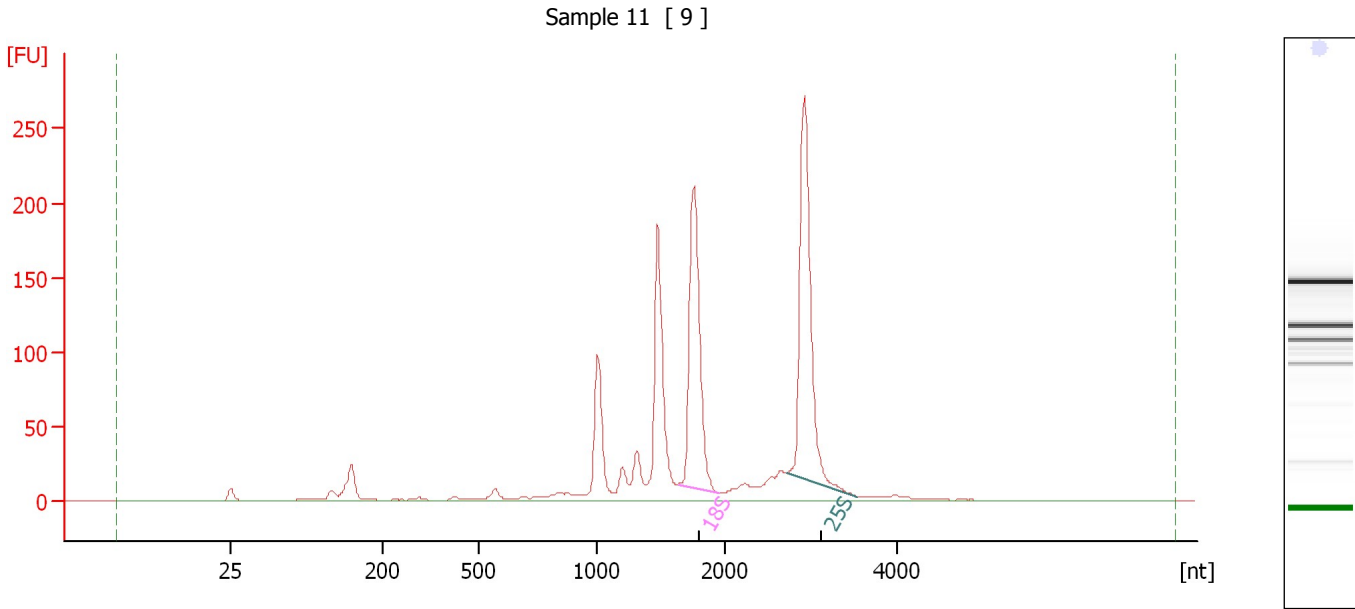
**Fragment table for sample 8 : Sample 7**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 1,637           | 1,952         | 211.0 | 20.0            |
| 25S  | 2,740           | 3,540         | 257.6 | 24.4            |

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
Modified: 5/13/2015 2:14:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Sample 11**

RNA Area: 1,192.1 RNA Integrity Number (RIN): 7.4 (B.02.08)  
RNA Concentration: 1,405 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN: 7.40

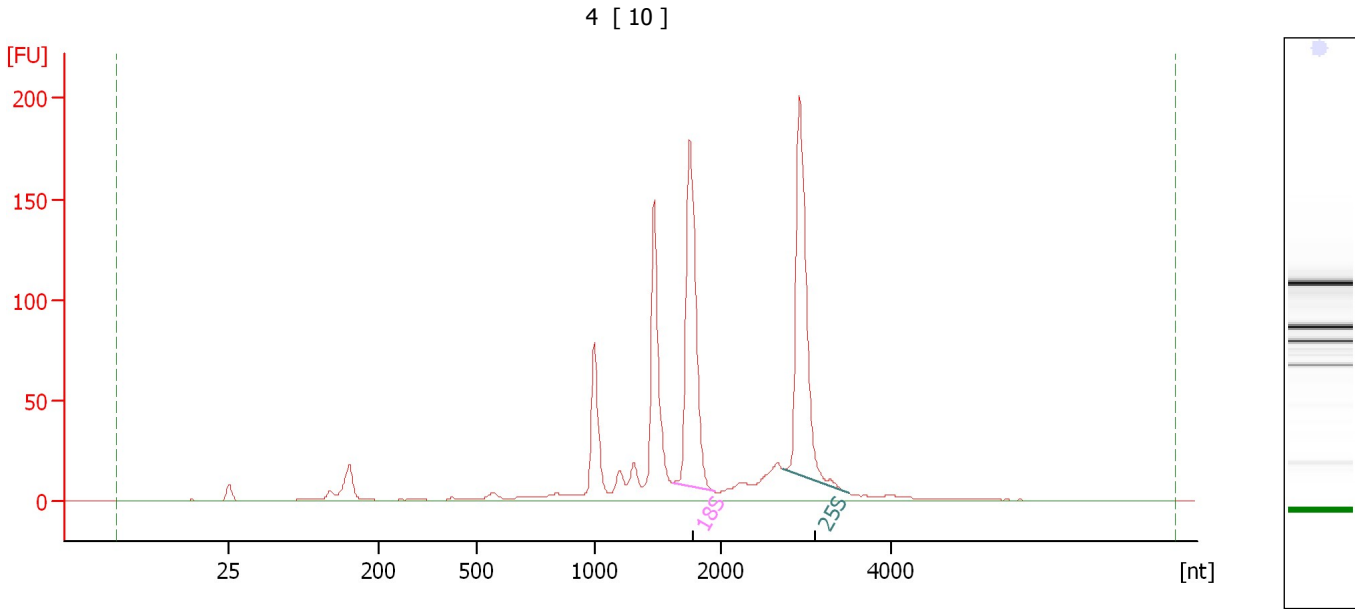
**Fragment table for sample 9 : Sample 11**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 1,626           | 1,943         | 237.0 | 19.9            |
| 25S  | 2,717           | 3,532         | 282.2 | 23.7            |

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
Modified: 5/13/2015 2:14:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 4**

RNA Area: 917.7                      RNA Integrity Number (RIN): 7.2 (B.02.08)  
RNA Concentration: 1,081 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.0                      Result Flagging Label: RIN: 7.20

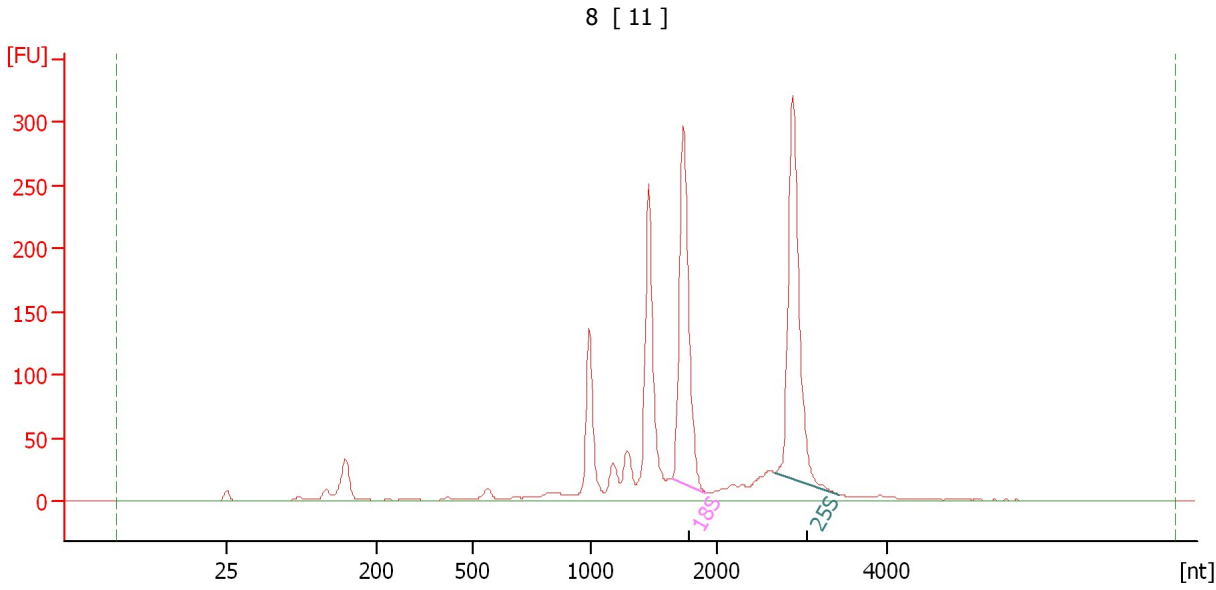
**Fragment table for sample 10 : 4**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 1,615           | 1,941         | 197.0 | 21.5            |
| 25S  | 2,730           | 3,511         | 202.4 | 22.1            |

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
Modified: 5/13/2015 2:14:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 8**

RNA Area: 1,537.8                      RNA Integrity Number (RIN): 7 (B.02.08)  
RNA Concentration: 1,812 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.1                      Result Flagging Label: RIN:7

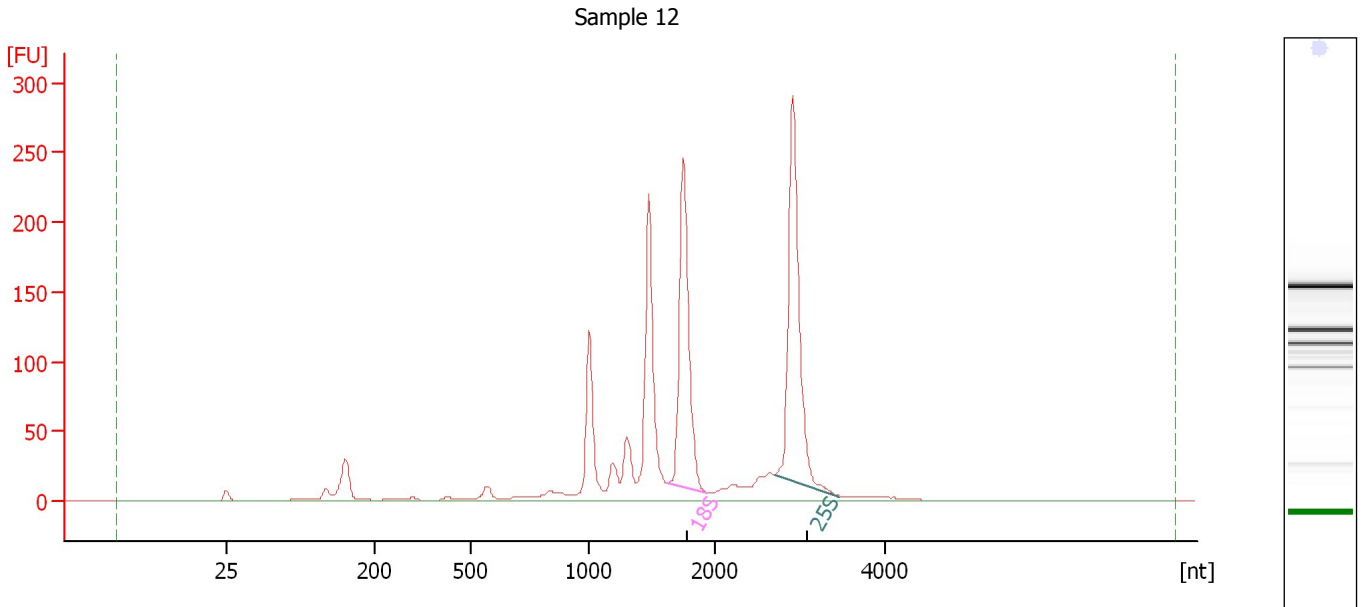
**Fragment table for sample 11 : 8**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 1,646           | 1,906         | 317.6 | 20.7            |
| 25S  | 2,681           | 3,440         | 351.5 | 22.9            |

Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
 Modified: 5/13/2015 2:14:44 PM

**Electropherogram Summary Continued ...**



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

|                         |             |                             |   |
|-------------------------|-------------|-----------------------------|---|
| RNA Area:               | 1,339.1     | RNA Integrity Number (RIN): | 7.1 (B.02.08)   |
| RNA Concentration:      | 1,578 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: 7.10   |

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

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 1,620           | 1,931         | 265.8 | 19.8            |
| 25S  | 2,694           | 3,467         | 309.6 | 23.1            |



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-13\2015-05-13\_003.xad

Created: 5/13/2015 1:50:48 PM  
Modified: 5/13/2015 2:14:44 PM

**Gel Image**

