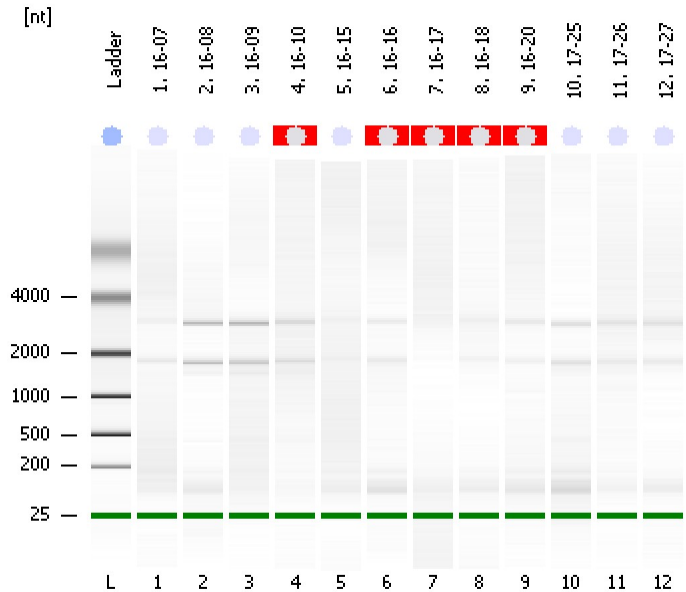


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
Modified: 9/20/2017 3:56:01 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

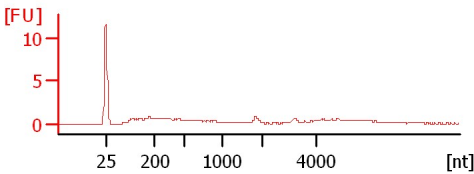
Assay Class: Plant RNA Nano  
Version: 1.3  
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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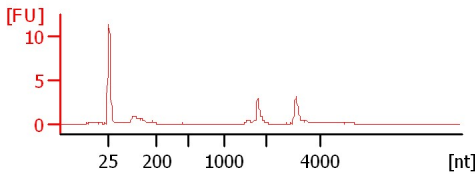
Chip Information:

Chip Lot #:   
Reagent Kit Lot #:   
Chip Comments:

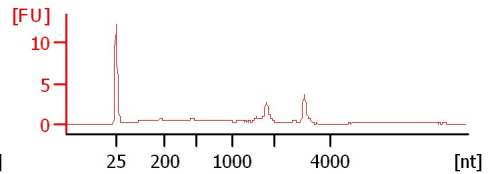
1. 16-07  
HiSeq\_1141  
RIN: 6.40



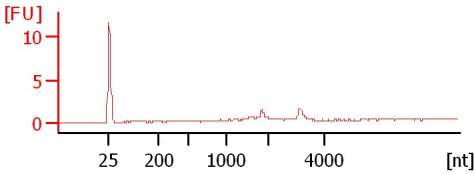
2. 16-08  
HiSeq\_1141  
RIN: 9.20



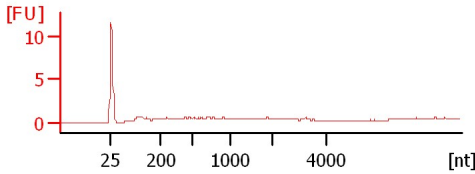
3. 16-09  
HiSeq\_1141  
RIN: 7



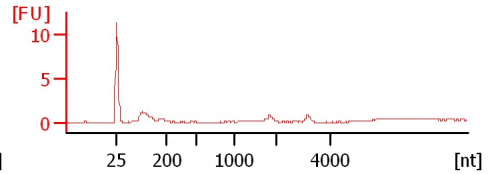
4. 16-10  
HiSeq\_1141  
RIN N/A



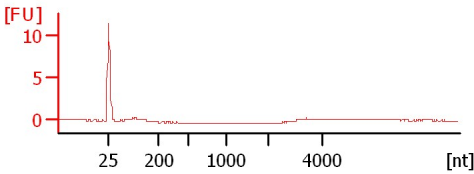
5. 16-15  
HiSeq\_1141  
RIN: 1



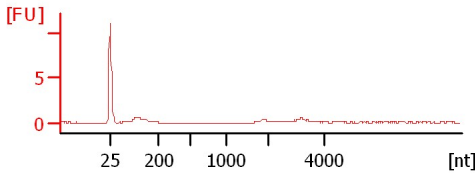
6. 16-16  
HiSeq\_1141  
RIN N/A



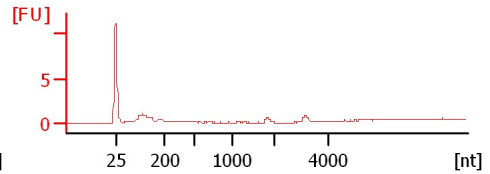
7. 16-17  
HiSeq\_1141  
RIN N/A



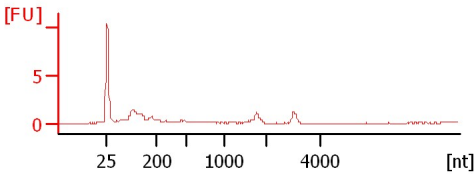
8. 16-18  
HiSeq\_1141  
RIN N/A



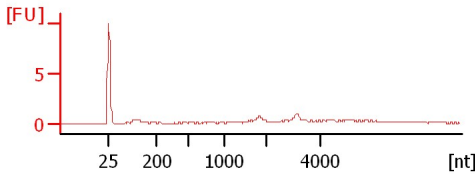
9. 16-20  
HiSeq\_1141  
RIN N/A



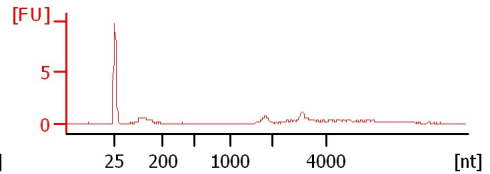
10. 17-25  
HiSeq\_1141  
RIN: 6.50



11. 17-26  
HiSeq\_1141  
RIN: 6.10



12. 17-27  
HiSeq\_1141  
RIN: 5.80



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
 Modified: 9/20/2017 3:56:01 PM

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

| Sample Name | Sample Comment | Status | Result Label      | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| 1. 16-07    | HiSeq_1141     | ✓      | RIN: 6.40         |              |
| 2. 16-08    | HiSeq_1141     | ✓      | RIN: 9.20         |              |
| 3. 16-09    | HiSeq_1141     | ✓      | RIN:7             |              |
| 4. 16-10    | HiSeq_1141     | ✓      | RIN N/A           |              |
| 5. 16-15    | HiSeq_1141     | ✓      | RIN:1             |              |
| 6. 16-16    | HiSeq_1141     | ✓      | RIN N/A           |              |
| 7. 16-17    | HiSeq_1141     | ✓      | RIN N/A           |              |
| 8. 16-18    | HiSeq_1141     | ✓      | RIN N/A           |              |
| 9. 16-20    | HiSeq_1141     | ✓      | RIN N/A           |              |
| 10. 17-25   | HiSeq_1141     | ✓      | RIN: 6.50         |              |
| 11. 17-26   | HiSeq_1141     | ✓      | RIN: 6.10         |              |
| 12. 17-27   | HiSeq_1141     | ✓      | RIN: 5.80         |              |
| Ladder      |                | ✓      | All Other Samples |              |

**Chip Lot #**

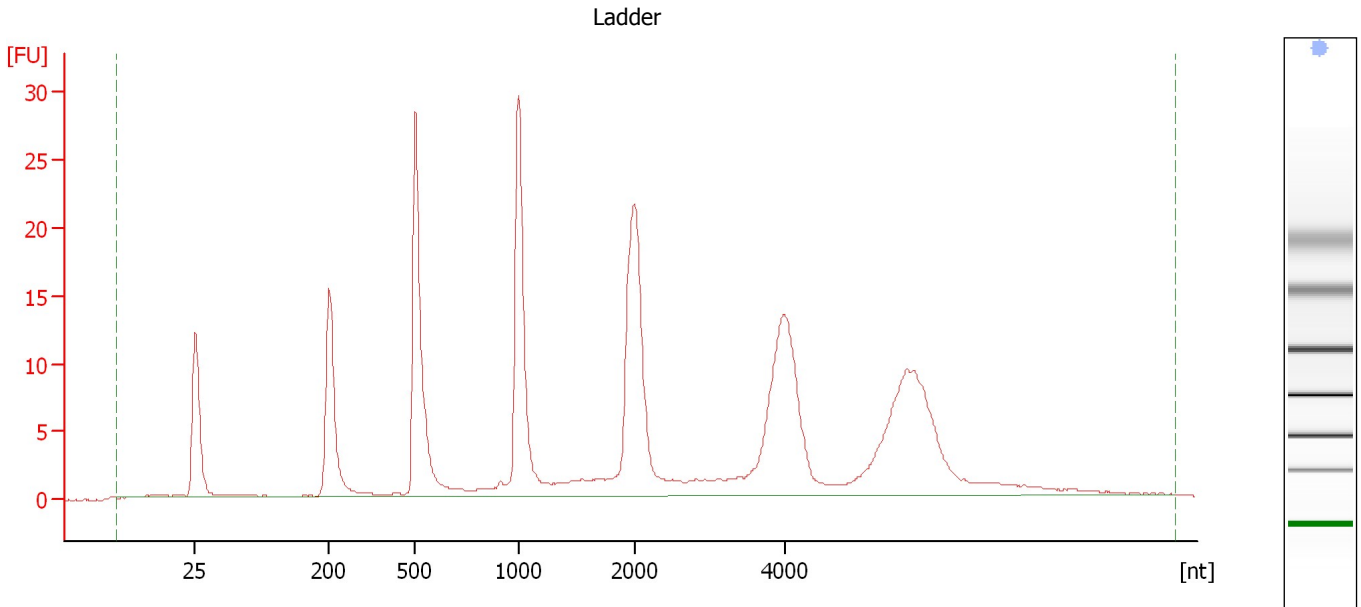
**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
Modified: 9/20/2017 3:56:01 PM

**Electropherogram Summary**



**Overall Results for Ladder**

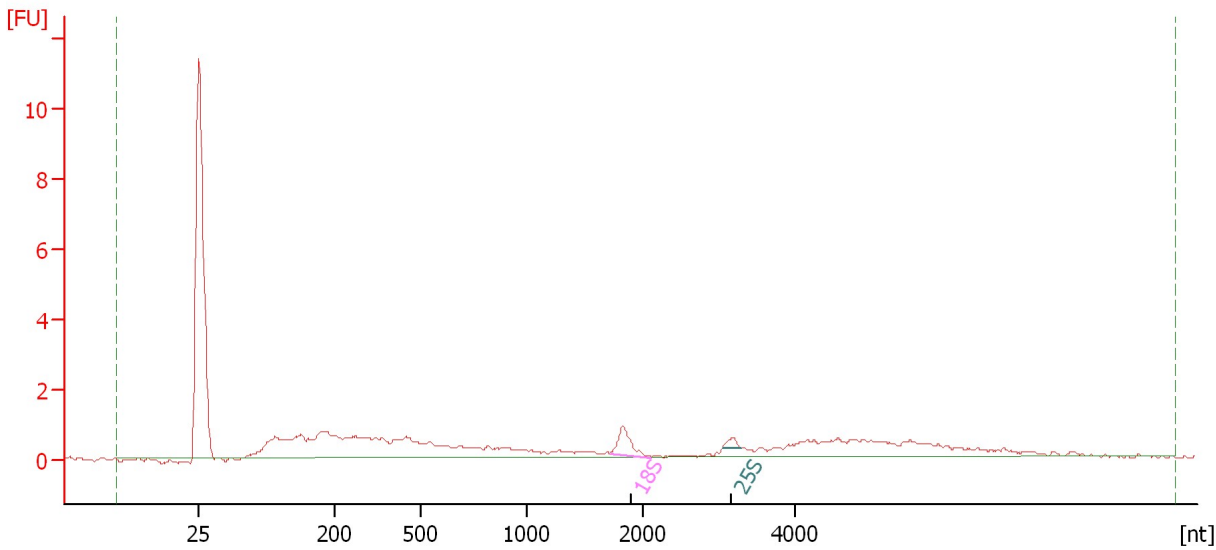
|                    |           |                        |   |
|--------------------|-----------|------------------------|---|
| RNA Area:          | 266.2     | Result Flagging Color: | <span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| RNA Concentration: | 150 ng/μl | Result Flagging Label: | All Other Samples   |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
Modified: 9/20/2017 3:56:01 PM

**Electropherogram Summary Continued ...**

1. 16-07 [ HiSeq\_1141 ]



**Overall Results for sample 1 : 1. 16-07**

RNA Area: 31.0 RNA Integrity Number (RIN): 6.4 (B.02.08)  
RNA Concentration: 17 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.3 Result Flagging Label: RIN: 6.40

**Fragment table for sample 1 : 1. 16-07**

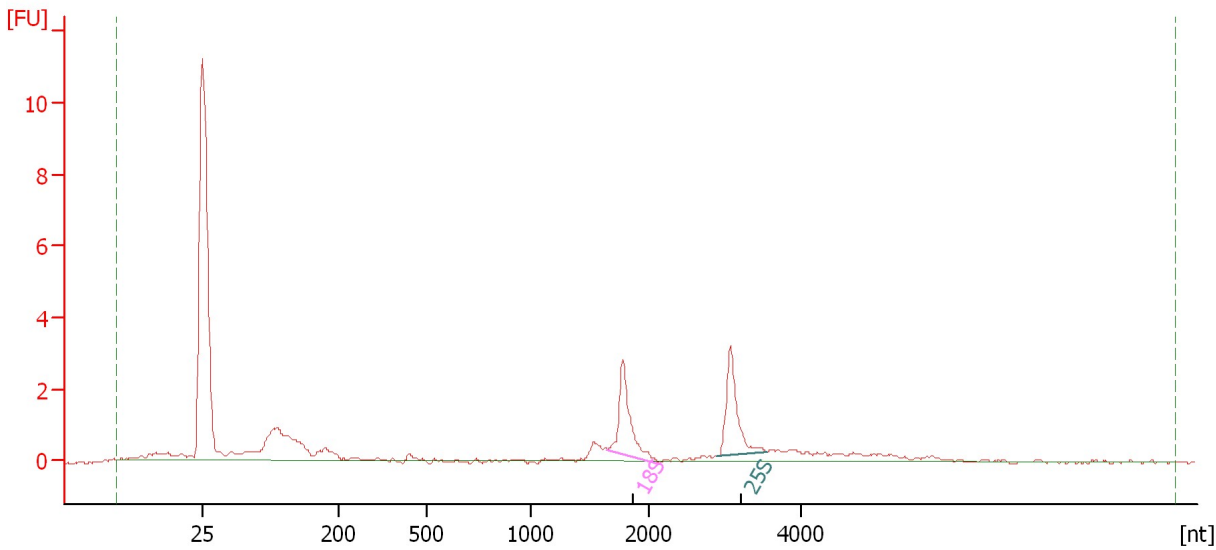
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 1,728           | 2,118         | 1.3  | 4.1             |
| 25S  | 3,061           | 3,300         | 0.3  | 1.1             |

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
 Modified: 9/20/2017 3:56:01 PM

**Electropherogram Summary Continued ...**

2. 16-08 [ HiSeq\_1141 ]



**Overall Results for sample 2 : 2. 16-08**

|                         |          |                             |   |
|-------------------------|----------|-----------------------------|---|
| RNA Area:               | 23.7     | RNA Integrity Number (RIN): | 9.2 (B.02.08)   |
| RNA Concentration:      | 13 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]: | 1.0      | Result Flagging Label:      | RIN: 9.20   |

**Fragment table for sample 2 : 2. 16-08**

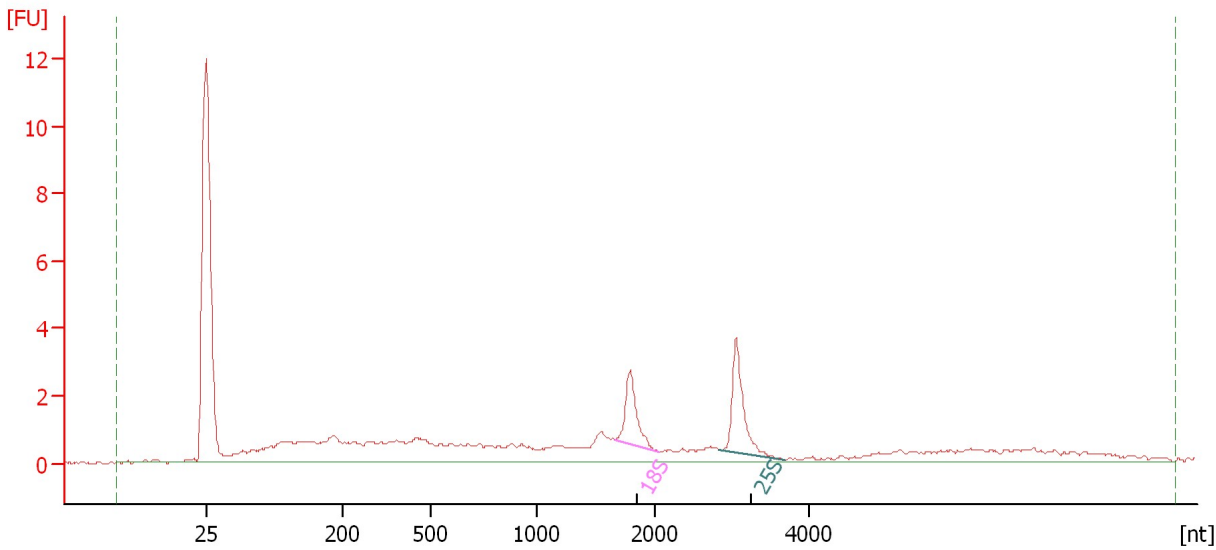
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 1,651           | 2,150         | 3.5  | 14.9            |
| 25S  | 2,905           | 3,562         | 3.7  | 15.6            |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
Modified: 9/20/2017 3:56:01 PM

**Electropherogram Summary Continued ...**

3. 16-09 [ HiSeq\_1141 ]



**Overall Results for sample 3 : 3. 16-09**

RNA Area: 49.3                      RNA Integrity Number (RIN): 7 (B.02.08)  
RNA Concentration: 28 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.4                      Result Flagging Label: RIN:7

**Fragment table for sample 3 : 3. 16-09**

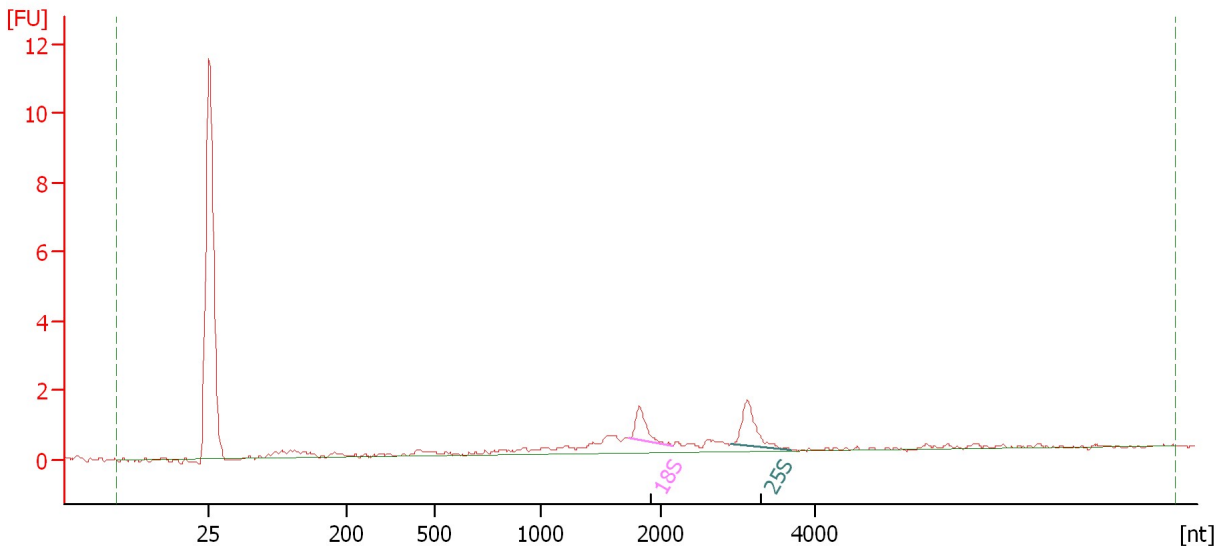
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 1,665           | 2,071         | 3.0  | 6.0             |
| 25S  | 2,848           | 3,695         | 4.2  | 8.5             |

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
 Modified: 9/20/2017 3:56:01 PM

**Electropherogram Summary Continued ...**

4. 16-10 [ HiSeq\_1141 ]



**Overall Results for sample 4 : 4. 16-10**

|                         |         |                             |   |
|-------------------------|---------|-----------------------------|---|
| RNA Area:               | 12.6    | RNA Integrity Number (RIN): | N/A (B.02.08)   |
| RNA Concentration:      | 7 ng/μl | Result Flagging Color:      | <span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [25s / 18s]: | 1.5     | Result Flagging Label:      | RIN N/A   |

**Fragment table for sample 4 : 4. 16-10**

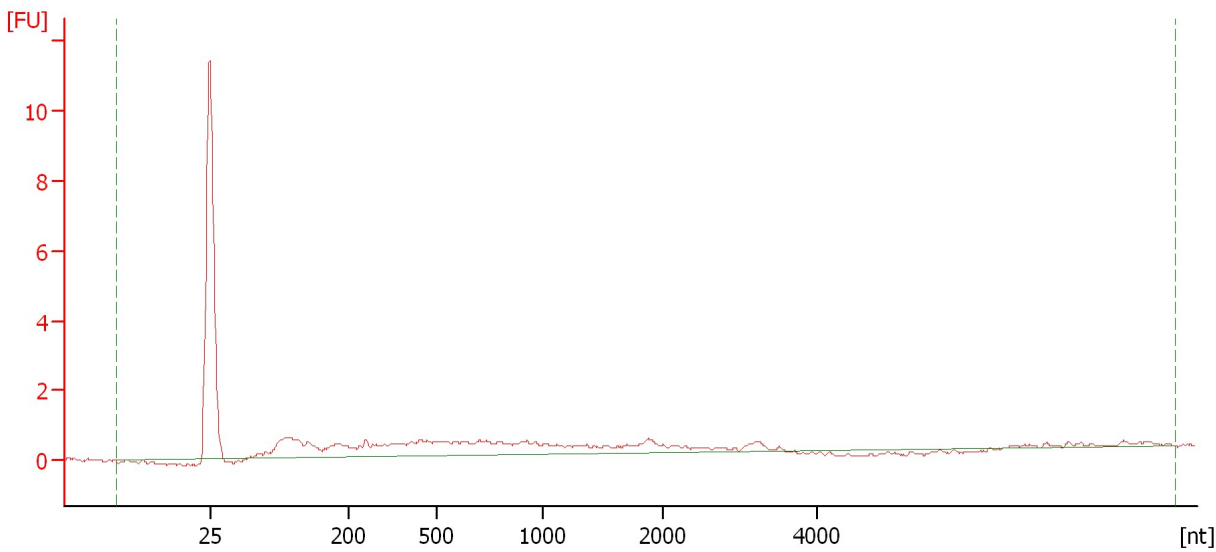
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 1,733           | 2,158         | 1.3  | 10.6            |
| 25S  | 2,916           | 3,689         | 2.0  | 16.3            |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
Modified: 9/20/2017 3:56:01 PM

**Electropherogram Summary Continued ...**

5. 16-15 [ HiSeq\_1141 ]



**Overall Results for sample 5 : 5. 16-15**

|                         |          |                             |   |
|-------------------------|----------|-----------------------------|---|
| RNA Area:               | 20.3     | RNA Integrity Number (RIN): | 1 (B.02.08)   |
| RNA Concentration:      | 11 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]: | 0.0      | Result Flagging Label:      | RIN:1   |

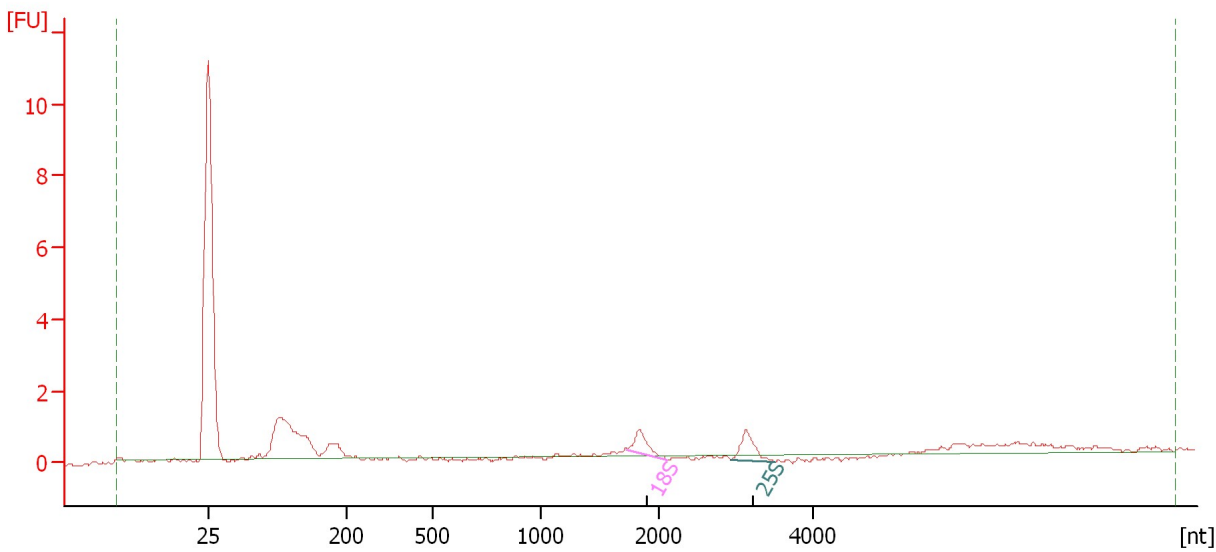


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
Modified: 9/20/2017 3:56:01 PM

**Electropherogram Summary Continued ...**

6. 16-16 [ HiSeq\_1141 ]



**Overall Results for sample 6 : 6. 16-16**

|                         |         |                             |   |
|-------------------------|---------|-----------------------------|---|
| RNA Area:               | 12.3    | RNA Integrity Number (RIN): | N/A (B.02.08)   |
| RNA Concentration:      | 7 ng/μl | Result Flagging Color:      | <span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [25s / 18s]: | 1.4     | Result Flagging Label:      | RIN N/A   |

**Fragment table for sample 6 : 6. 16-16**

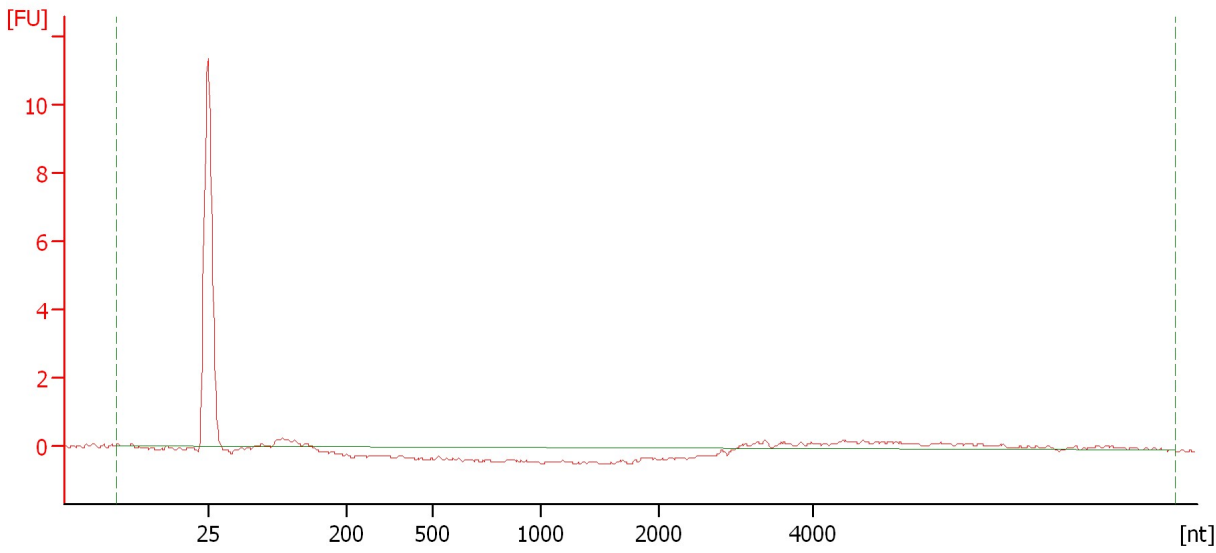
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 1,741           | 2,115         | 1.0  | 7.8             |
| 25S  | 2,931           | 3,498         | 1.3  | 10.6            |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
Modified: 9/20/2017 3:56:01 PM

**Electropherogram Summary Continued ...**

7. 16-17 [ HiSeq\_1141 ]



**Overall Results for sample 7 : 7. 16-17**

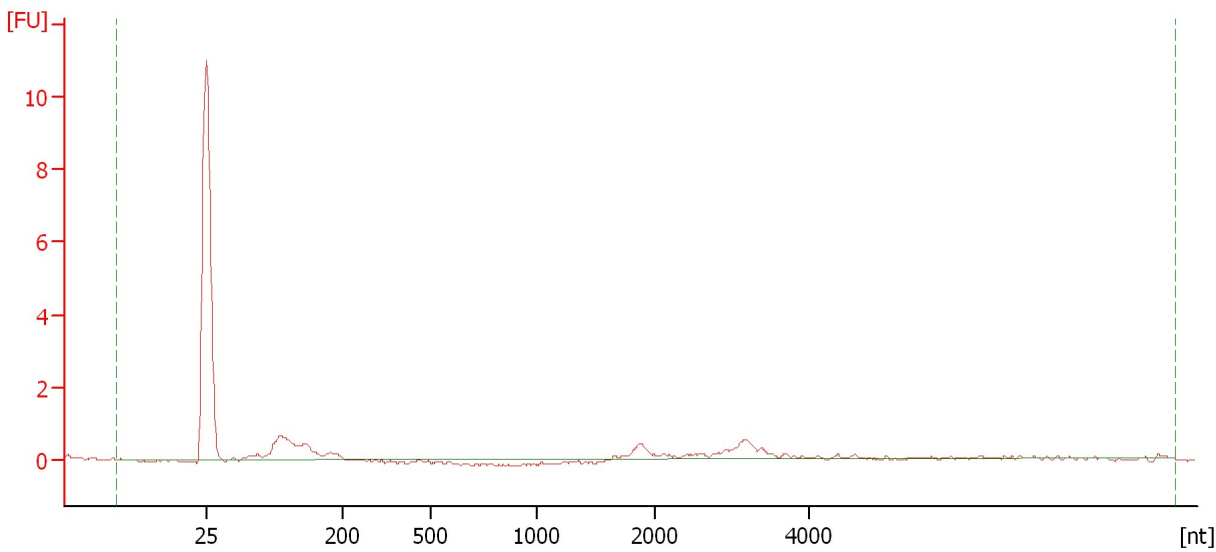
|                         |         |                             |   |
|-------------------------|---------|-----------------------------|---|
| RNA Area:               | 5.4     | RNA Integrity Number (RIN): | N/A (B.02.08)   |
| RNA Concentration:      | 3 ng/μl | Result Flagging Color:      | <span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [25s / 18s]: | 0.0     | Result Flagging Label:      | RIN N/A   |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
Modified: 9/20/2017 3:56:01 PM

**Electropherogram Summary Continued ...**

8. 16-18 [ HiSeq\_1141 ]



**Overall Results for sample 8 : 8. 16-18**

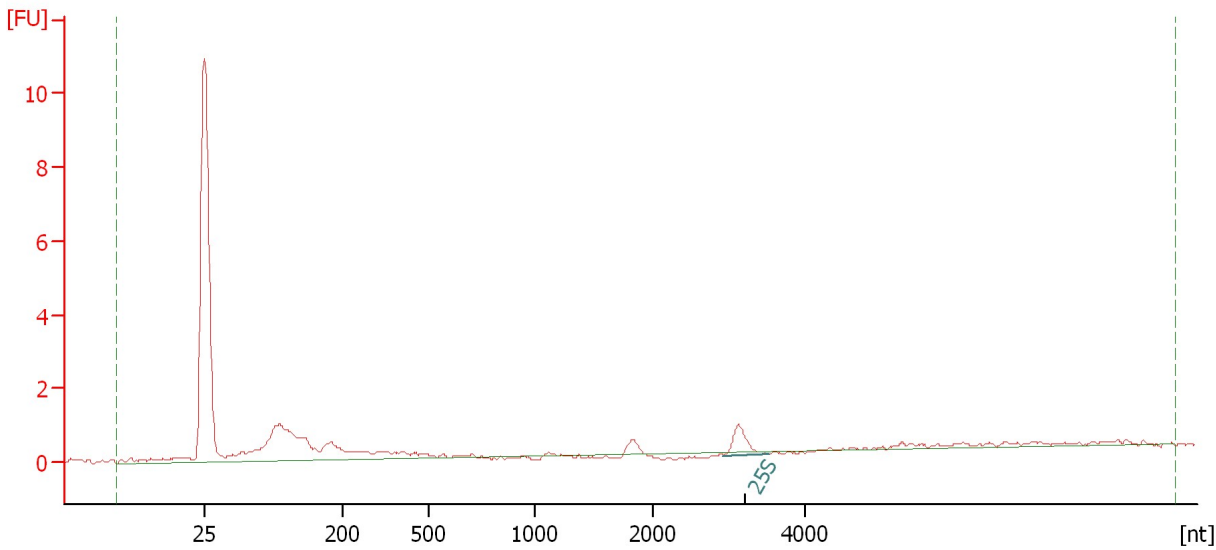
|                         |         |                             |   |
|-------------------------|---------|-----------------------------|---|
| RNA Area:               | 9.4     | RNA Integrity Number (RIN): | N/A (B.02.08)   |
| RNA Concentration:      | 5 ng/μl | Result Flagging Color:      | <span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [25s / 18s]: | 0.0     | Result Flagging Label:      | RIN N/A   |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
Modified: 9/20/2017 3:56:01 PM

**Electropherogram Summary Continued ...**

9. 16-20 [ HiSeq\_1141 ]



**Overall Results for sample 9 : 9. 16-20**

|                         |         |                             |   |
|-------------------------|---------|-----------------------------|---|
| RNA Area:               | 16.7    | RNA Integrity Number (RIN): | N/A (B.02.08)   |
| RNA Concentration:      | 9 ng/μl | Result Flagging Color:      | <span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [25s / 18s]: | 0.0     | Result Flagging Label:      | RIN N/A   |

**Fragment table for sample 9 : 9. 16-20**

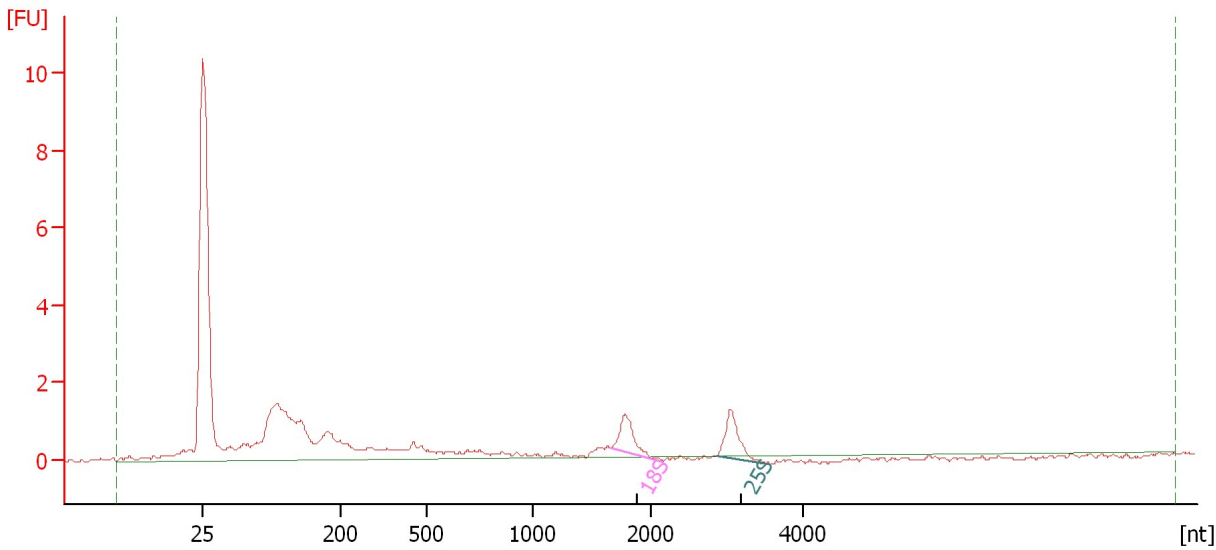
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 25S  | 2,932           | 3,530         | 1.2  | 7.3             |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
Modified: 9/20/2017 3:56:01 PM

**Electropherogram Summary Continued ...**

10. 17-25 [ HiSeq\_1141 ]



**Overall Results for sample 10 : 10. 17-25**

RNA Area: 27.7                      RNA Integrity Number (RIN): 6.5 (B.02.08)  
RNA Concentration: 16 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2              Result Flagging Label: RIN: 6.50

**Fragment table for sample 10 : 10. 17-25**

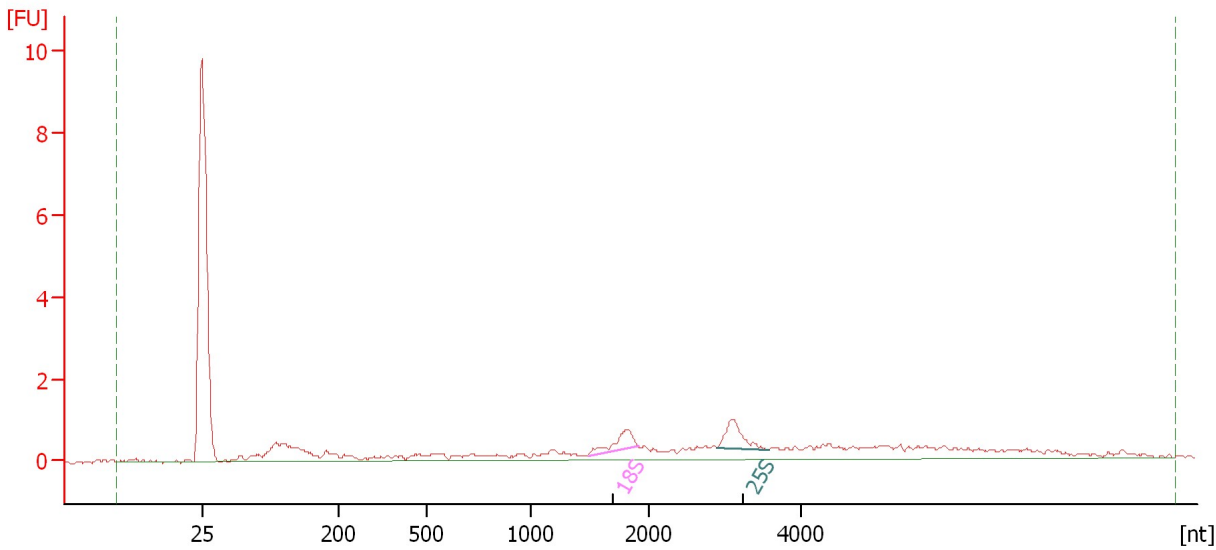
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 1,662           | 2,165         | 1.6  | 5.9             |
| 25S  | 2,863           | 3,518         | 2.0  | 7.0             |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
Modified: 9/20/2017 3:56:01 PM

**Electropherogram Summary Continued ...**

11. 17-26 [ HiSeq\_1141 ]



**Overall Results for sample 11 : 11. 17-26**

RNA Area: 22.5                      RNA Integrity Number (RIN): 6.1 (B.02.08)  
RNA Concentration: 13 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2              Result Flagging Label: RIN: 6.10

**Fragment table for sample 11 : 11. 17-26**

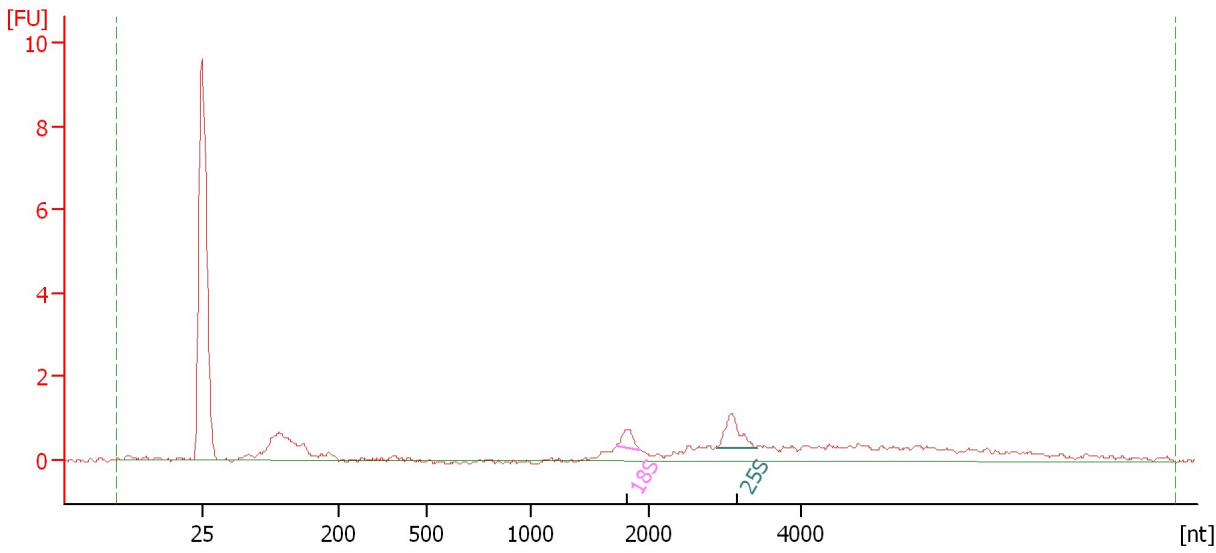
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 1,487           | 1,915         | 1.1  | 4.8             |
| 25S  | 2,905           | 3,575         | 1.3  | 5.7             |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
Modified: 9/20/2017 3:56:01 PM

**Electropherogram Summary Continued ...**

12. 17-27 [ HiSeq\_1141 ]



**Overall Results for sample 12 : 12. 17-27**

RNA Area: 18.8                      RNA Integrity Number (RIN): 5.8 (B.02.08)  
RNA Concentration: 11 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.3              Result Flagging Label: RIN: 5.80

**Fragment table for sample 12 : 12. 17-27**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 1,724           | 1,925         | 0.6  | 3.0             |
| 25S  | 2,905           | 3,408         | 1.3  | 6.9             |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-20\2017-09-20\_002.xad

Created: 9/20/2017 3:32:12 PM  
Modified: 9/20/2017 3:56:01 PM

**Gel Image**

