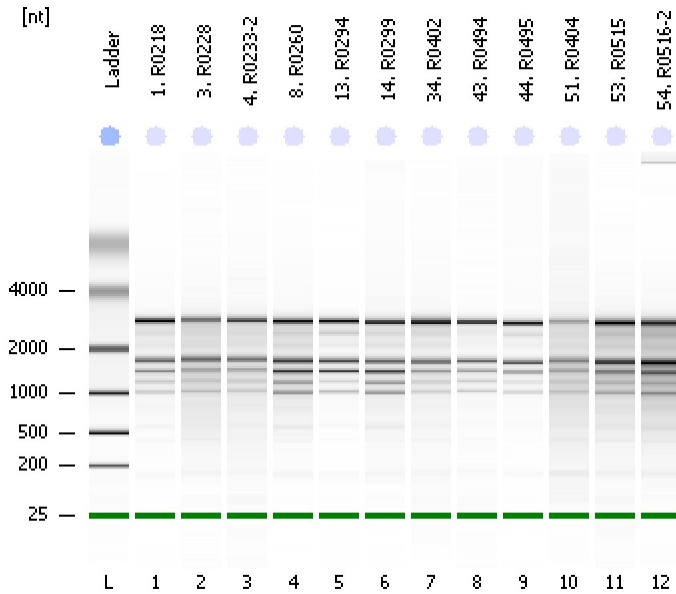


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 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

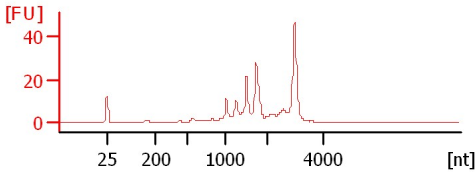
Assay Class: Plant RNA Nano  
Version: 1.3  
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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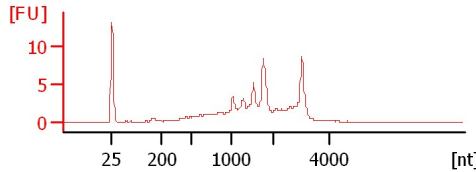
Chip Information:

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

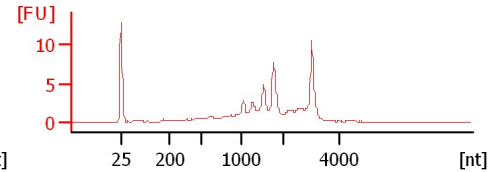
1. R0218  
HiSeq1281 RNA QC  
RIN: 7.70



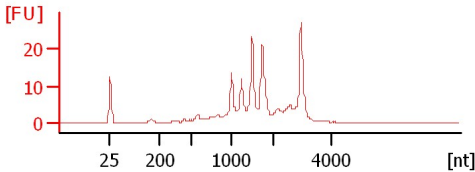
3. R0228  
HiSeq1281 RNA QC  
RIN: 6.80



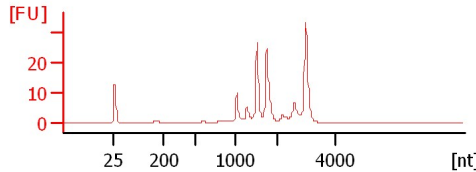
4. R0233-2  
HiSeq1281 RNA QC  
RIN: 7.20



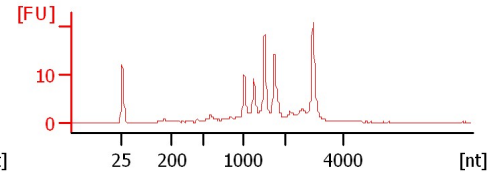
8. R0260  
HiSeq1281 RNA QC  
RIN: 6.70



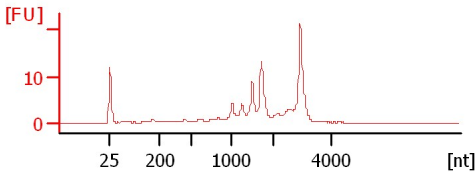
13. R0294  
HiSeq1281 RNA QC  
RIN: 7.40



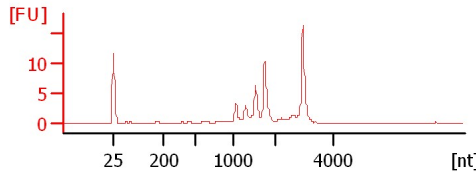
14. R0299  
HiSeq1281 RNA QC  
RIN: 7



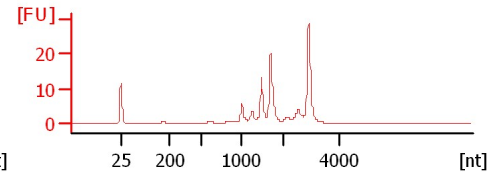
34. R0402  
HiSeq1281 RNA QC  
RIN: 7.70



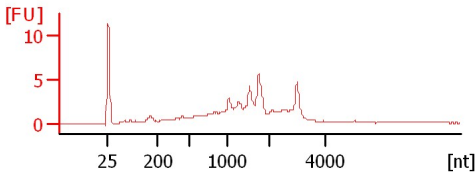
43. R0494  
HiSeq1281 RNA QC  
RIN: 7.80



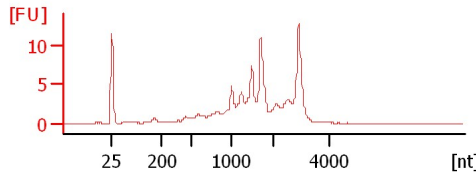
44. R0495  
HiSeq1281 RNA QC  
RIN: 7.80



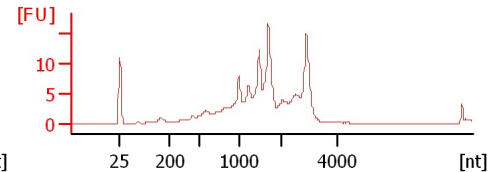
51. R0404  
HiSeq1281 RNA QC  
RIN: 6



53. R0515  
HiSeq1281 RNA QC  
RIN: 6.80



54. R0516-2  
HiSeq1281 RNA QC  
RIN: 6.20



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
1. R0218	HiSeq1281 RNA QC	✓	RIN: 7.70	
3. R0228	HiSeq1281 RNA QC	✓	RIN: 6.80	
4. R0233-2	HiSeq1281 RNA QC	✓	RIN: 7.20	
8. R0260	HiSeq1281 RNA QC	✓	RIN: 6.70	
13. R0294	HiSeq1281 RNA QC	✓	RIN: 7.40	
14. R0299	HiSeq1281 RNA QC	✓	RIN:7	
34. R0402	HiSeq1281 RNA QC	✓	RIN: 7.70	
43. R0494	HiSeq1281 RNA QC	✓	RIN: 7.80	
44. R0495	HiSeq1281 RNA QC	✓	RIN: 7.80	
51. R0404	HiSeq1281 RNA QC	✓	RIN:6	
53. R0515	HiSeq1281 RNA QC	✓	RIN: 6.80	
54. R0516-2	HiSeq1281 RNA QC	✓	RIN: 6.20	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 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

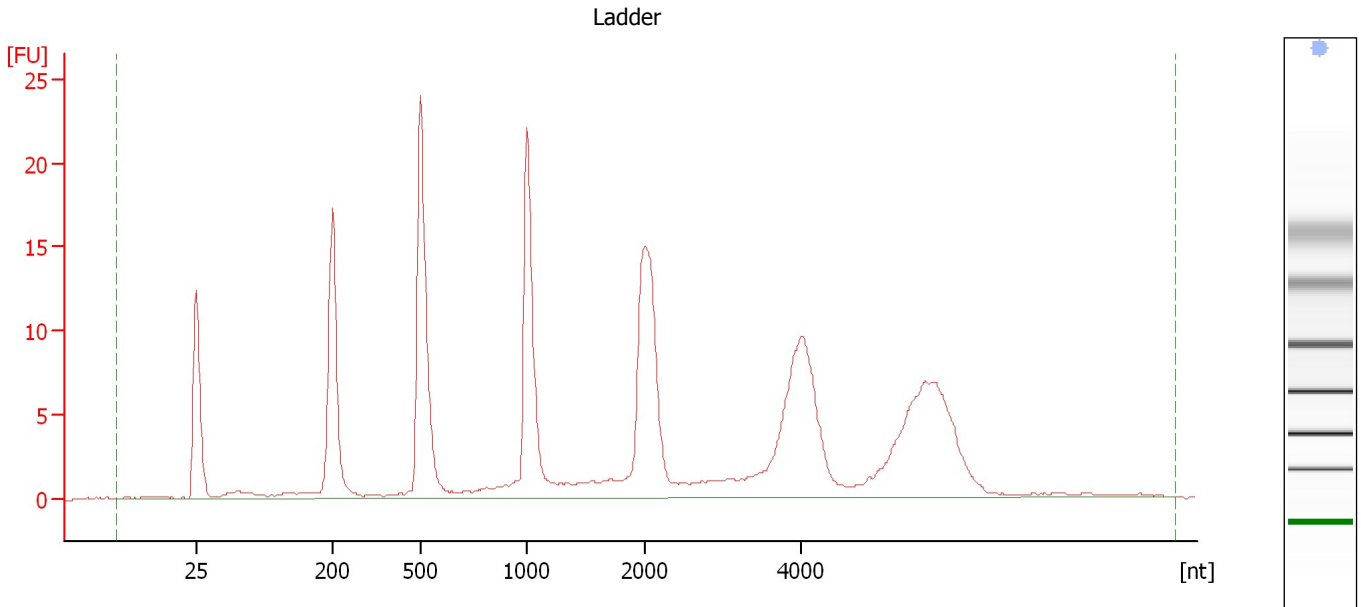
### Ladder

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\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

**Electropherogram Summary**



**Overall Results for Ladder**

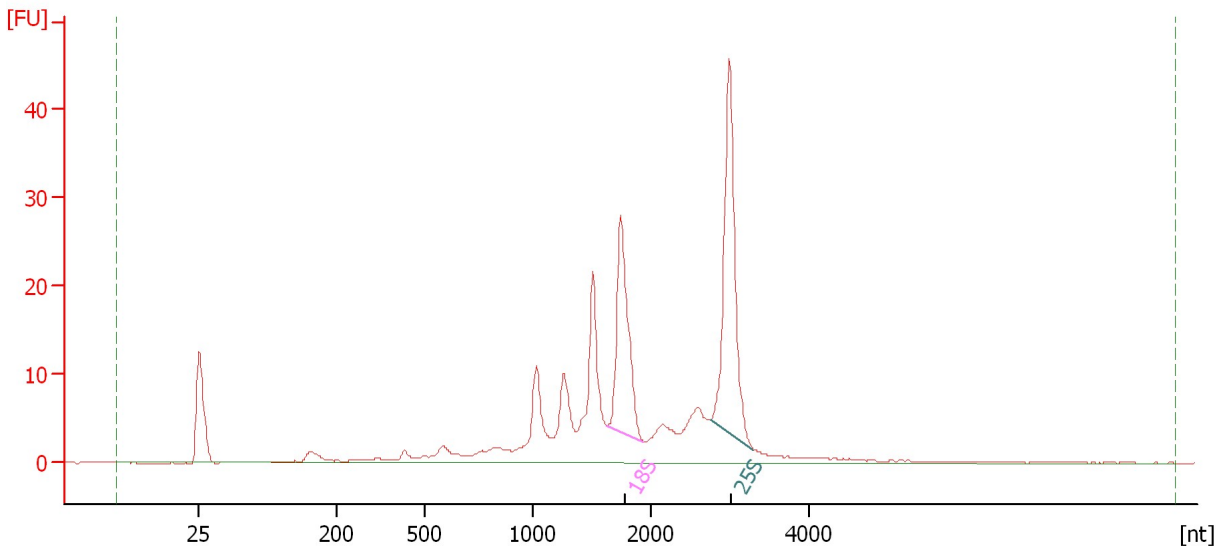
RNA Area:	224.1	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

**Electropherogram Summary Continued ...**

1. R0218 [ HiSeq1281 RNA QC ]



**Overall Results for sample 1 : 1. R0218**

RNA Area: 238.2                      RNA Integrity Number (RIN): 7.7 (B.02.08)  
RNA Concentration: 159 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.5              Result Flagging Label: RIN: 7.70

**Fragment table for sample 1 : 1. R0218**

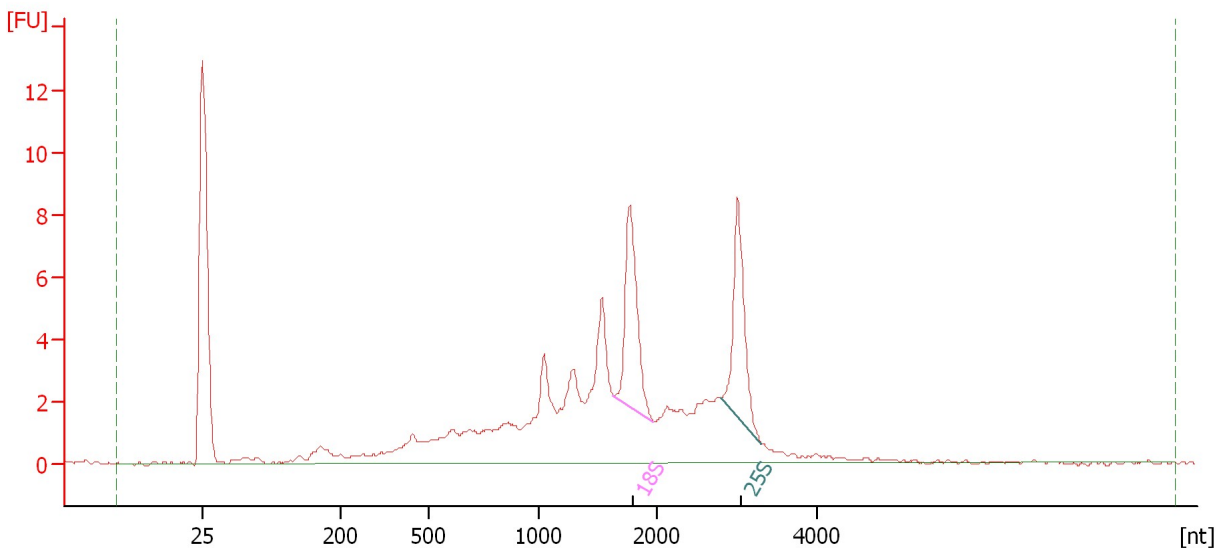
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,632	1,939	33.9	14.2
25S	2,747	3,301	50.9	21.3

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

**Electropherogram Summary Continued ...**

3. R0228 [ HiSeq1281 RNA QC ]



**Overall Results for sample 2 : 3. R0228**

RNA Area: 88.9                      RNA Integrity Number (RIN): 6.8 (B.02.08)  
RNA Concentration: 59 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.9                      Result Flagging Label: RIN: 6.80

**Fragment table for sample 2 : 3. R0228**

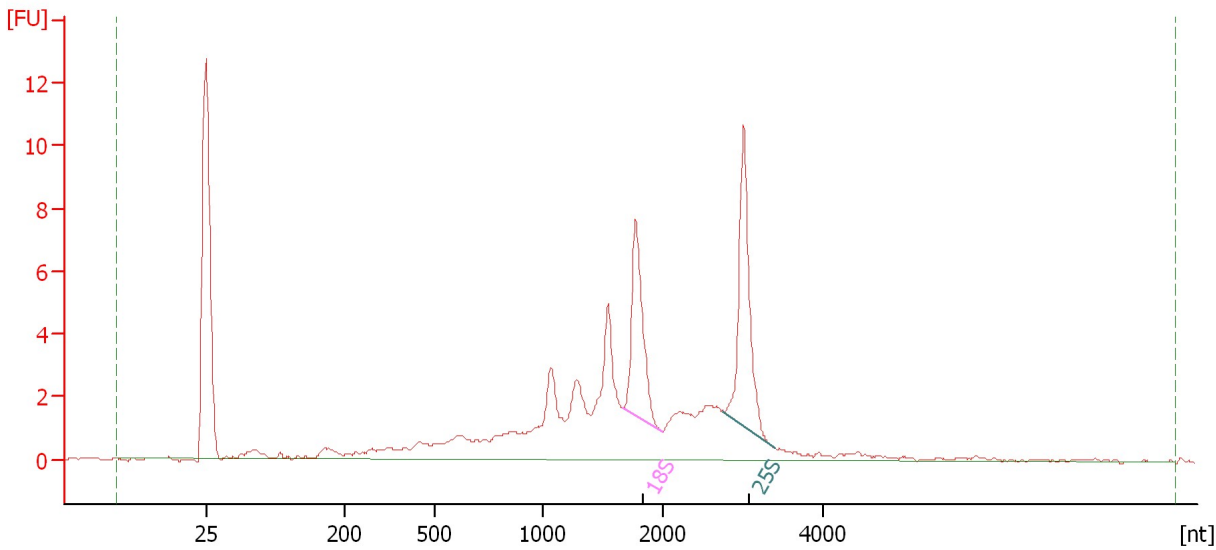
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,637	1,969	9.3	10.4
25S	2,813	3,310	8.3	9.3

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

**Electropherogram Summary Continued ...**

4. R0233-2 [ HiSeq1281 RNA QC ]



**Overall Results for sample 3 : 4. R0233-2**

RNA Area: 79.1 RNA Integrity Number (RIN): 7.2 (B.02.08)  
RNA Concentration: 53 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.3 Result Flagging Label: RIN: 7.20

**Fragment table for sample 3 : 4. R0233-2**

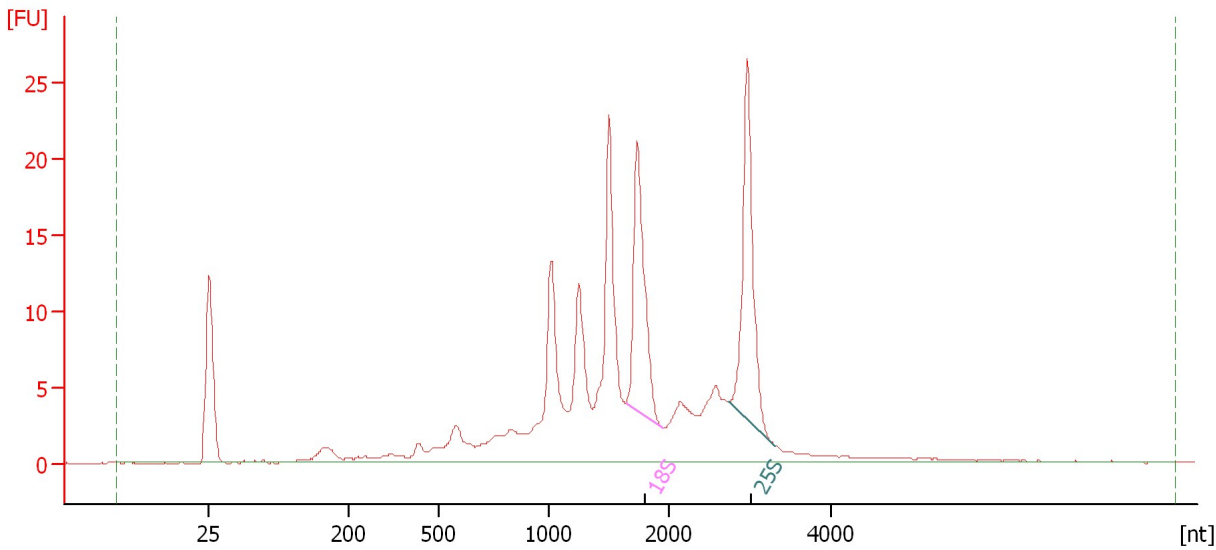
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	1,989	8.5	10.8
25S	2,758	3,386	10.7	13.5

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

**Electropherogram Summary Continued ...**

8. R0260 [ HiSeq1281 RNA QC ]



**Overall Results for sample 4 : 8. R0260**

RNA Area: 205.6                      RNA Integrity Number (RIN): 6.7 (B.02.08)  
RNA Concentration: 138 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.1                      Result Flagging Label: RIN: 6.70

**Fragment table for sample 4 : 8. R0260**

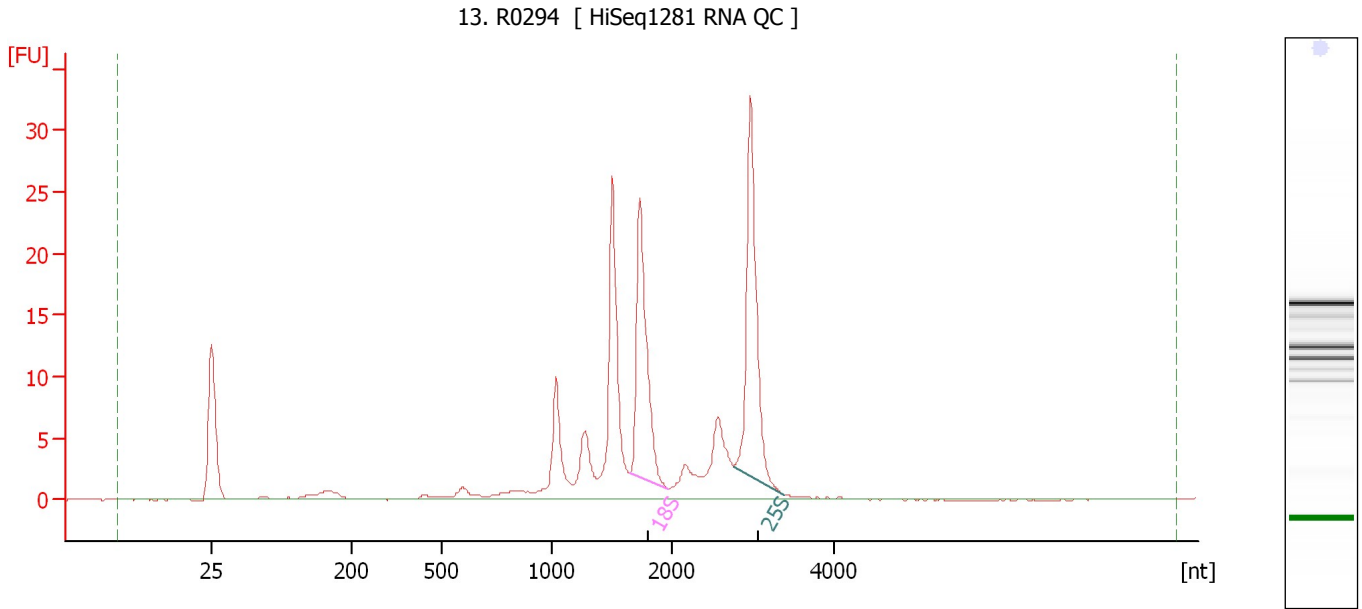
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,939	23.7	11.5
25S	2,731	3,301	26.3	12.8



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 13. R0294**

RNA Area:	148.6	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	99 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: 7.40

**Fragment table for sample 5 : 13. R0294**

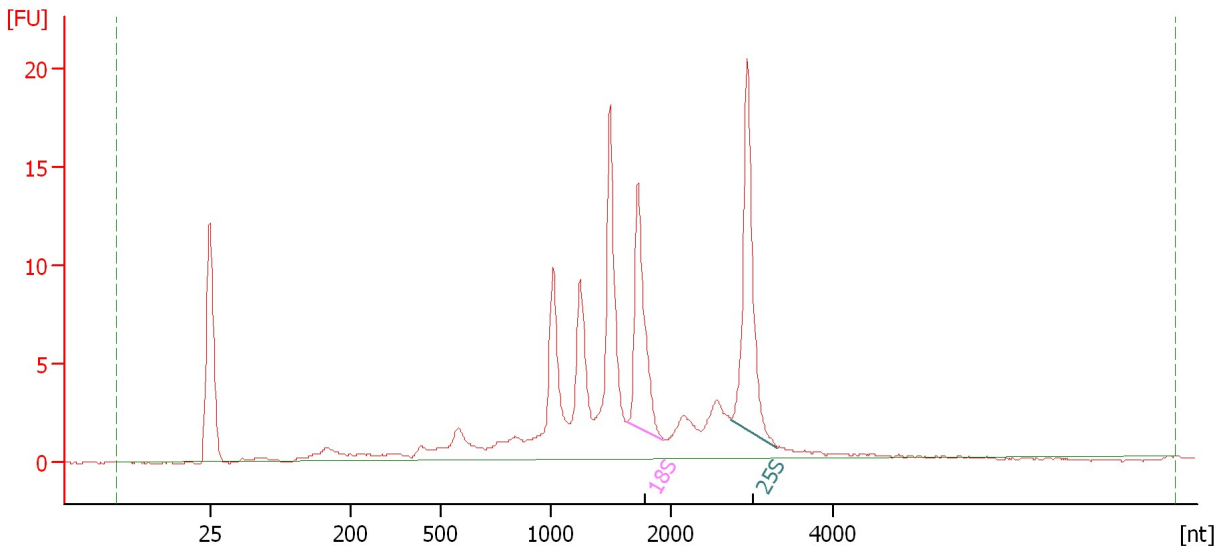
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	1,957	27.8	18.7
25S	2,757	3,392	32.4	21.8

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

**Electropherogram Summary Continued ...**

14. R0299 [ HiSeq1281 RNA QC ]



**Overall Results for sample 6 : 14. R0299**

RNA Area: 130.6                      RNA Integrity Number (RIN): 7 (B.02.08)  
RNA Concentration: 87 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.3                      Result Flagging Label: RIN:7

**Fragment table for sample 6 : 14. R0299**

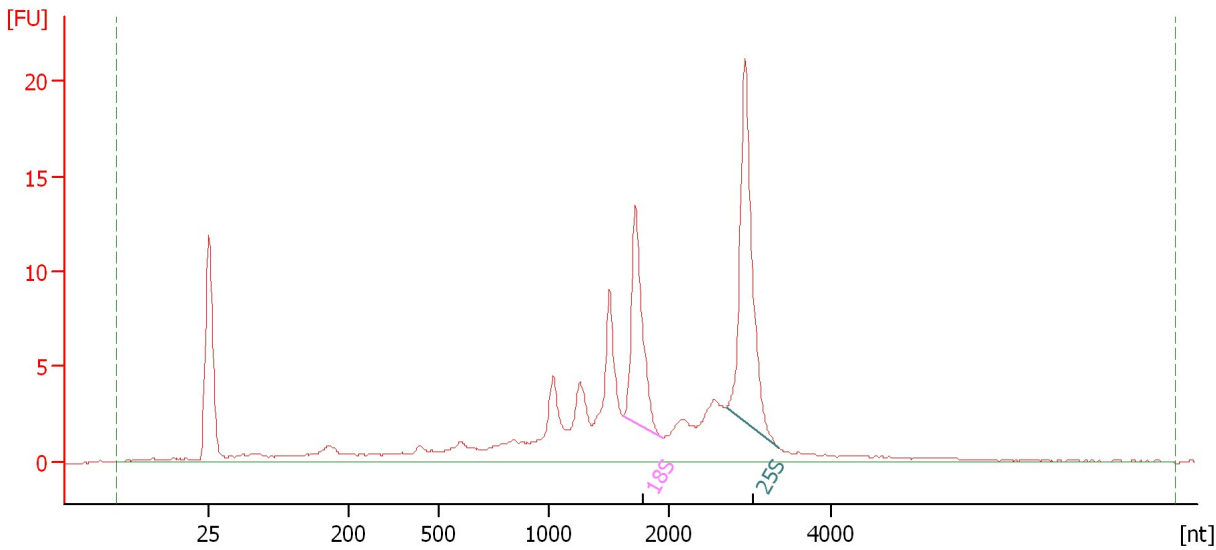
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,630	1,931	14.9	11.4
25S	2,744	3,313	19.6	15.0

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

**Electropherogram Summary Continued ...**

34. R0402 [ HiSeq1281 RNA QC ]



**Overall Results for sample 7 : 34. R0402**

RNA Area:	133.9	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	90 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]:	1.6	Result Flagging Label:	RIN: 7.70

**Fragment table for sample 7 : 34. R0402**

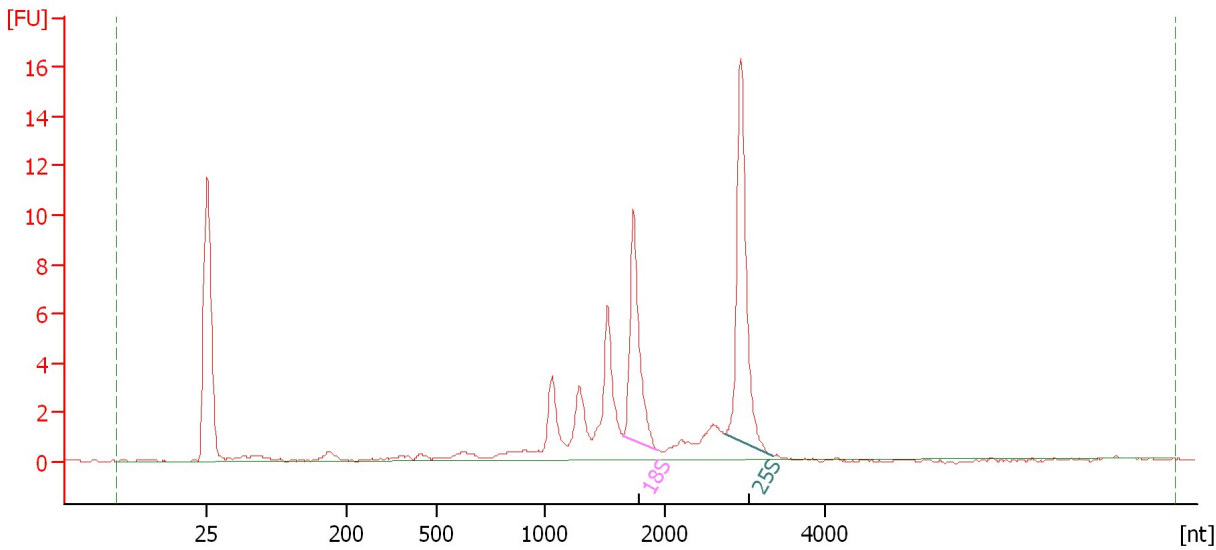
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,620	1,939	15.3	11.4
25S	2,704	3,354	25.0	18.7

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

**Electropherogram Summary Continued ...**

43. R0494 [ HiSeq1281 RNA QC ]



**Overall Results for sample 8 : 43. R0494**

RNA Area: 62.5                      RNA Integrity Number (RIN): 7.8 (B.02.08)  
RNA Concentration: 42 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.5              Result Flagging Label: RIN: 7.80

**Fragment table for sample 8 : 43. R0494**

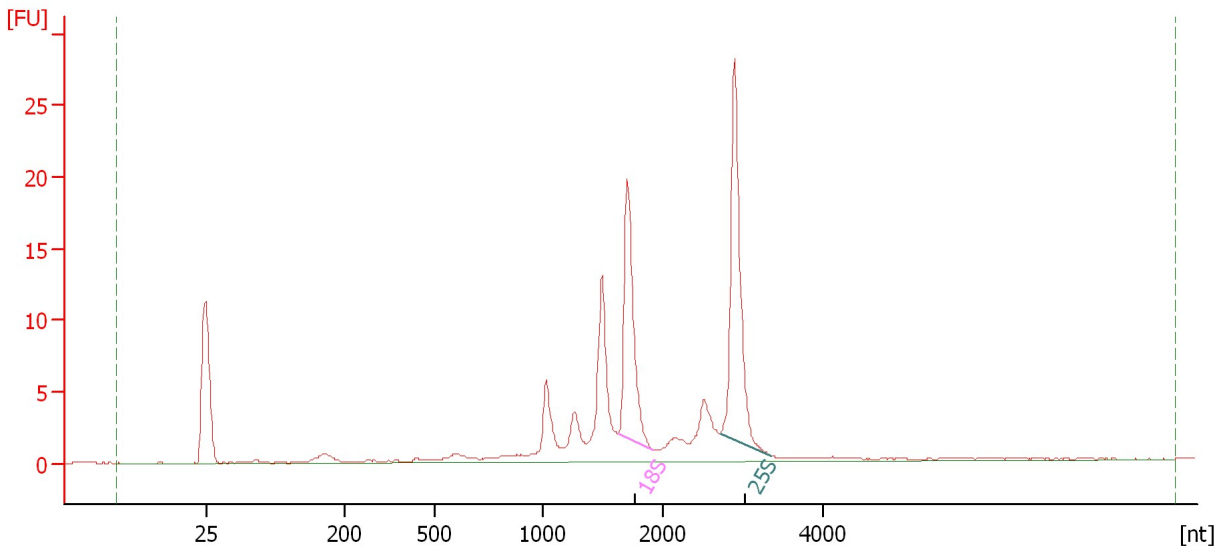
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,652	1,937	10.5	16.8
25S	2,745	3,331	15.6	24.9

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

**Electropherogram Summary Continued ...**

44. R0495 [ HiSeq1281 RNA QC ]



**Overall Results for sample 9 : 44. R0495**

RNA Area:	113.0	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	76 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 9 : 44. R0495**

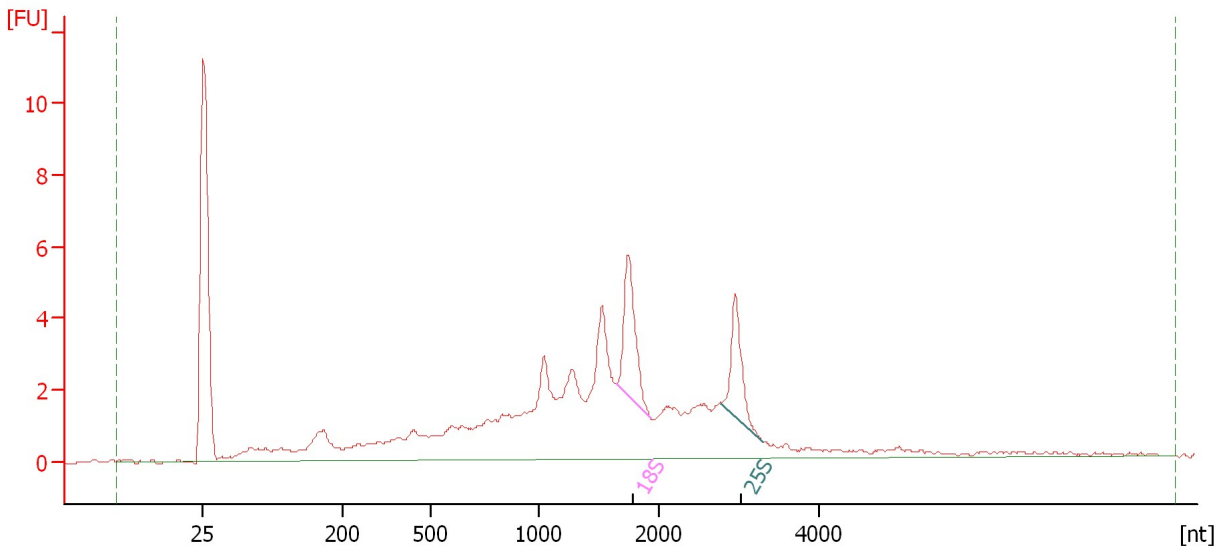
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,918	20.2	17.8
25S	2,718	3,346	27.5	24.4

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

**Electropherogram Summary Continued ...**

51. R0404 [ HiSeq1281 RNA QC ]



**Overall Results for sample 10 : 51. R0404**

RNA Area:	81.6	RNA Integrity Number (RIN):	6 (B.02.08)
RNA Concentration:	55 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:6

**Fragment table for sample 10 : 51. R0404**

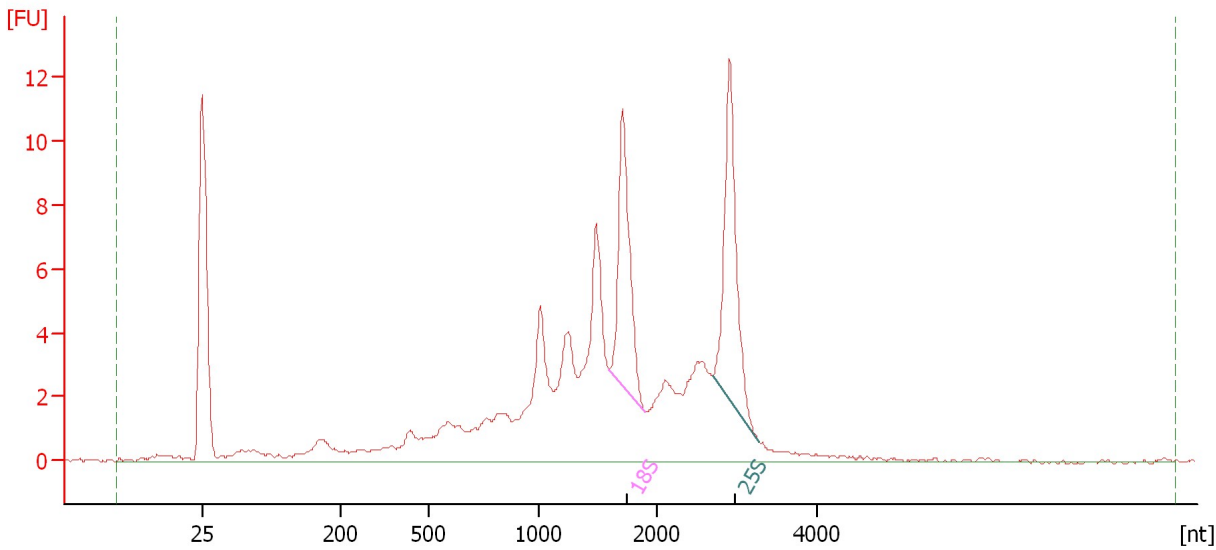
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	1,925	5.4	6.6
25S	2,786	3,295	3.9	4.7

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

**Electropherogram Summary Continued ...**

53. R0515 [ HiSeq1281 RNA QC ]



**Overall Results for sample 11 : 53. R0515**

RNA Area: 122.8      RNA Integrity Number (RIN): 6.8 (B.02.08)  
RNA Concentration: 82 ng/μl      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.2      Result Flagging Label: RIN: 6.80

**Fragment table for sample 11 : 53. R0515**

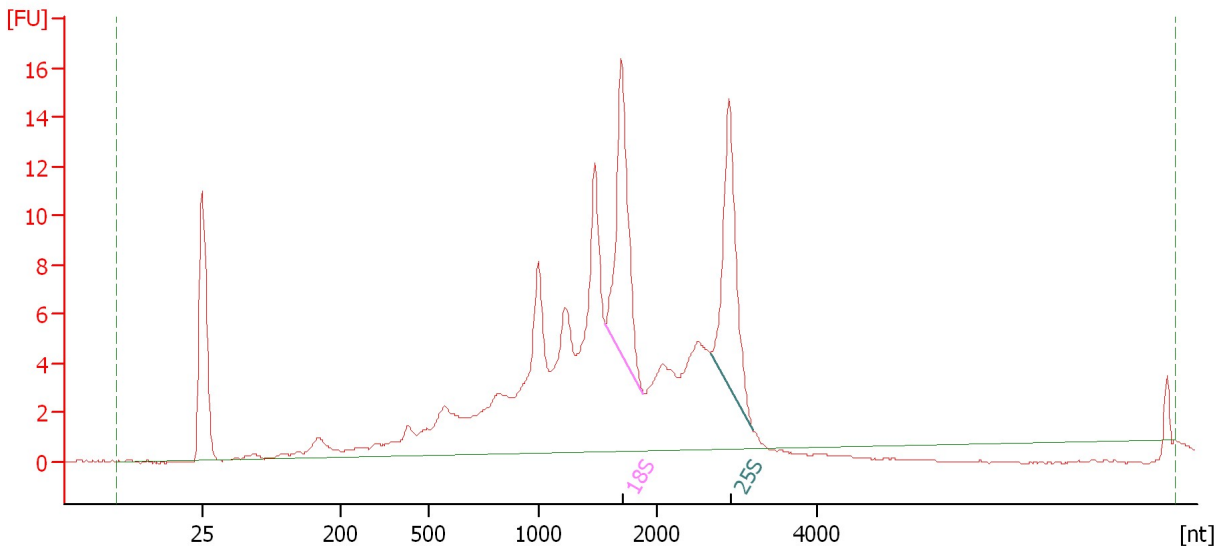
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,601	1,897	11.9	9.7
25S	2,692	3,283	14.1	11.4

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

**Electropherogram Summary Continued ...**

54. R0516-2 [ HiSeq1281 RNA QC ]



**Overall Results for sample 12 : 54. R0516-2**

RNA Area: 169.9 RNA Integrity Number (RIN): 6.2 (B.02.08)  
RNA Concentration: 114 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.0 Result Flagging Label: RIN: 6.20

**Fragment table for sample 12 : 54. R0516-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,565	1,888	17.4	10.3
25S	2,665	3,203	16.7	9.8



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-29\2017-11-29\_003.xad

Created: 11/29/2017 2:41:35 PM  
Modified: 11/29/2017 3:13:56 PM

**Gel Image**

