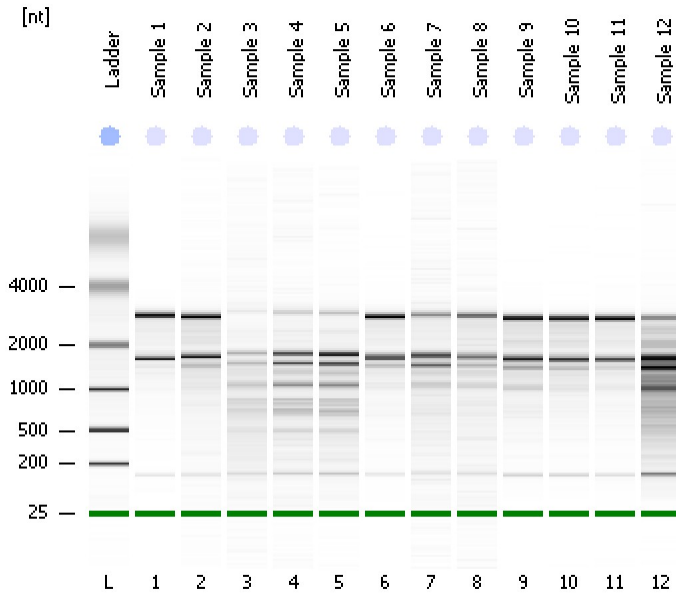


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 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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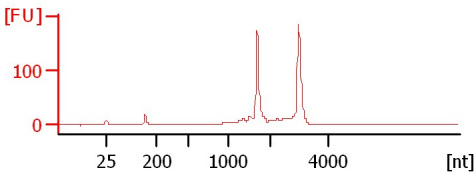
#### Chip Information:

Chip Lot #:

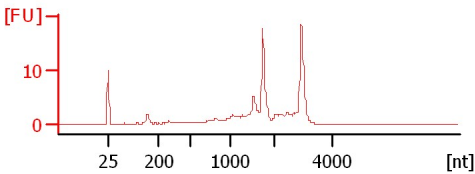
Reagent Kit Lot #:

Chip Comments:

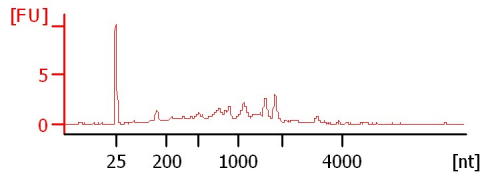
**Sample 1**  
RIN: 8.80



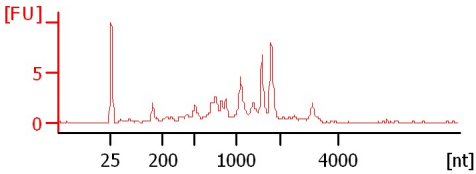
**Sample 2**  
RIN: 7.30



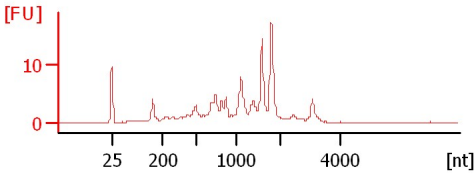
**Sample 3**  
RIN: 6.30



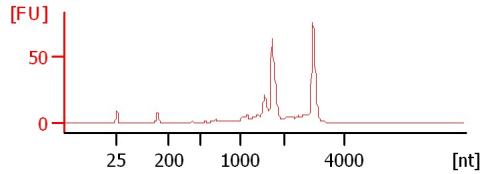
**Sample 4**  
RIN: 6



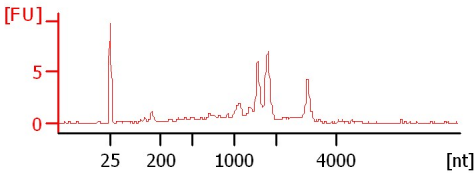
**Sample 5**  
RIN: 5.60



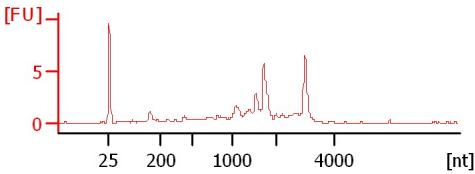
**Sample 6**  
RIN: 7.70



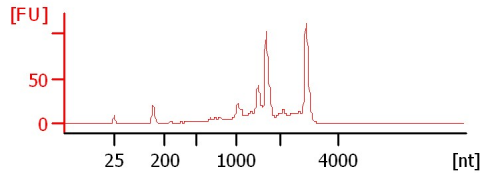
**Sample 7**  
RIN: 6.80



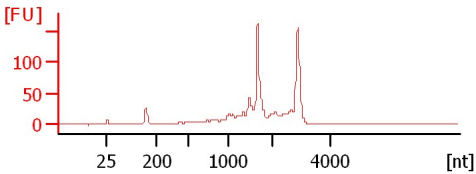
**Sample 8**  
RIN: 7.10



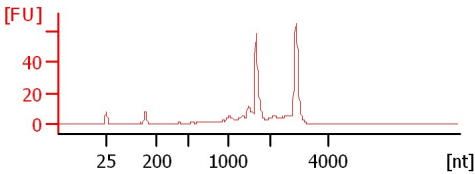
**Sample 9**  
RIN: 6.90



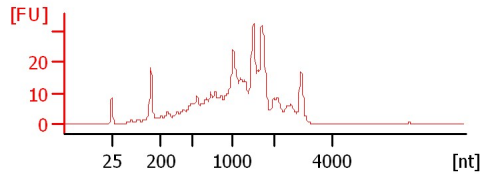
**Sample 10**  
RIN: 7.10



**Sample 11**  
RIN: 7.60



**Sample 12**  
RIN: 4.50



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
 Modified: 1/20/2016 12:14:56 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 8.80	
Sample 2		✓	RIN: 7.30	
Sample 3		✓	RIN: 6.30	
Sample 4		✓	RIN:6	
Sample 5		✓	RIN: 5.60	
Sample 6		✓	RIN: 7.70	
Sample 7		✓	RIN: 6.80	
Sample 8		✓	RIN: 7.10	
Sample 9		✓	RIN: 6.90	
Sample 10		✓	RIN: 7.10	
Sample 11		✓	RIN: 7.60	
Sample 12		✓	RIN: 4.50	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 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

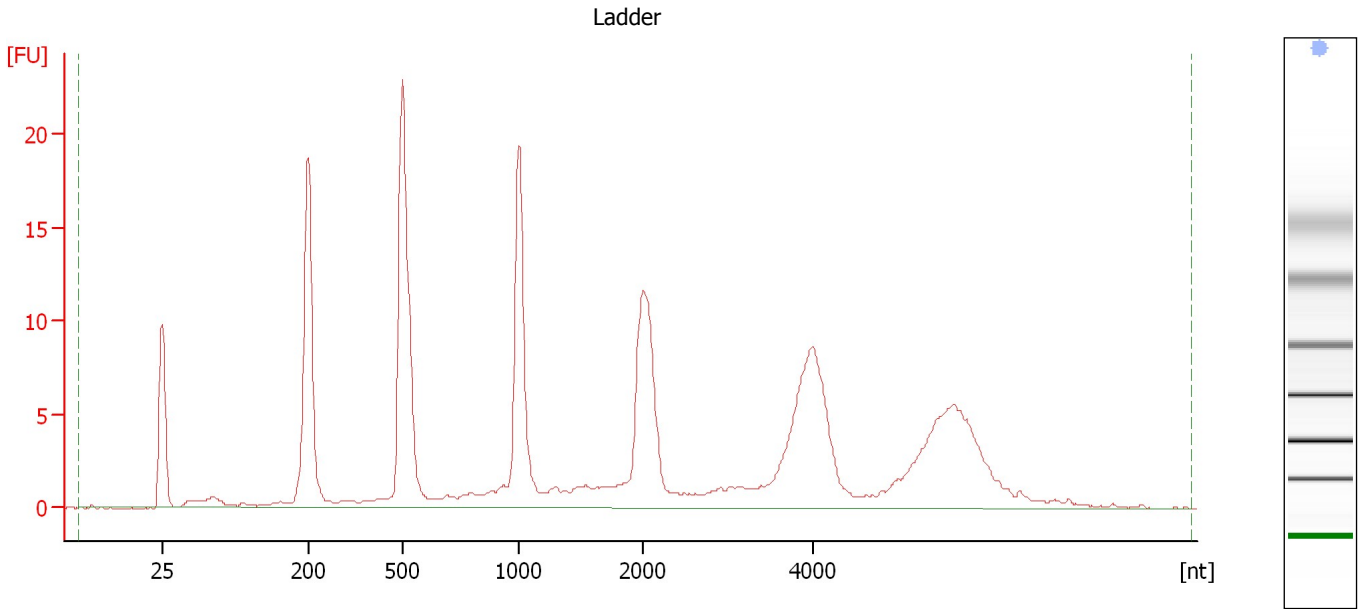
### Ladder

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

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 PM

**Electropherogram Summary**



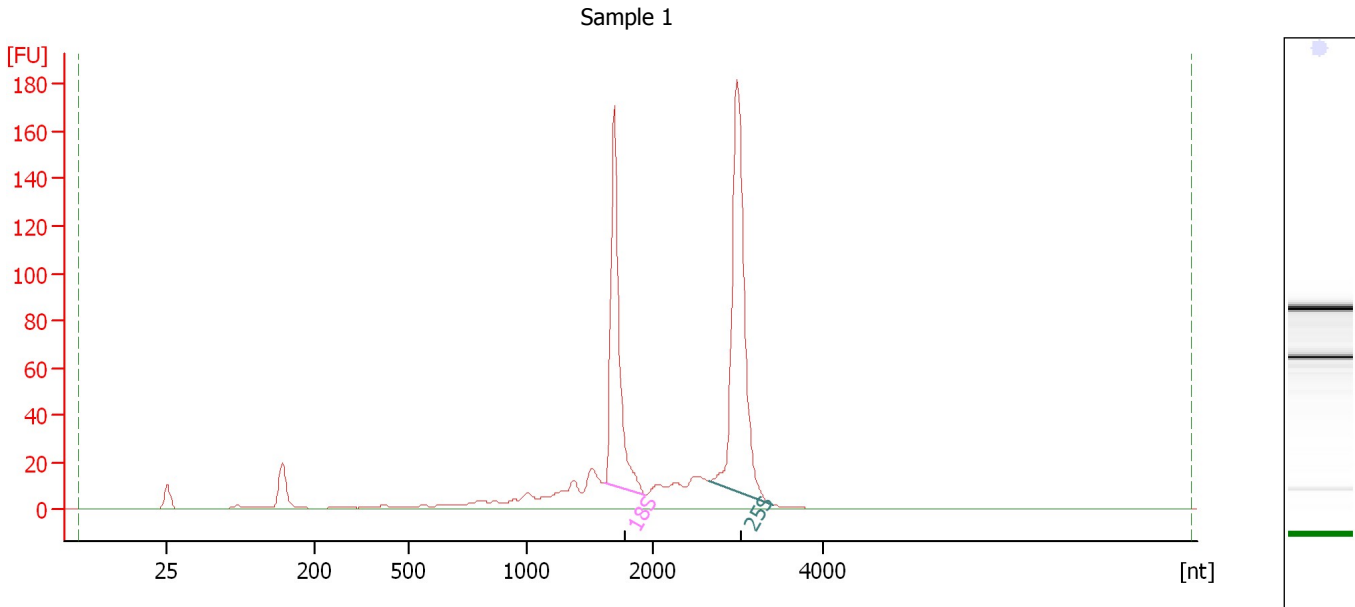
**Overall Results for Ladder**

RNA Area:	208.0	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\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	692.4	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	499 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: 8.80

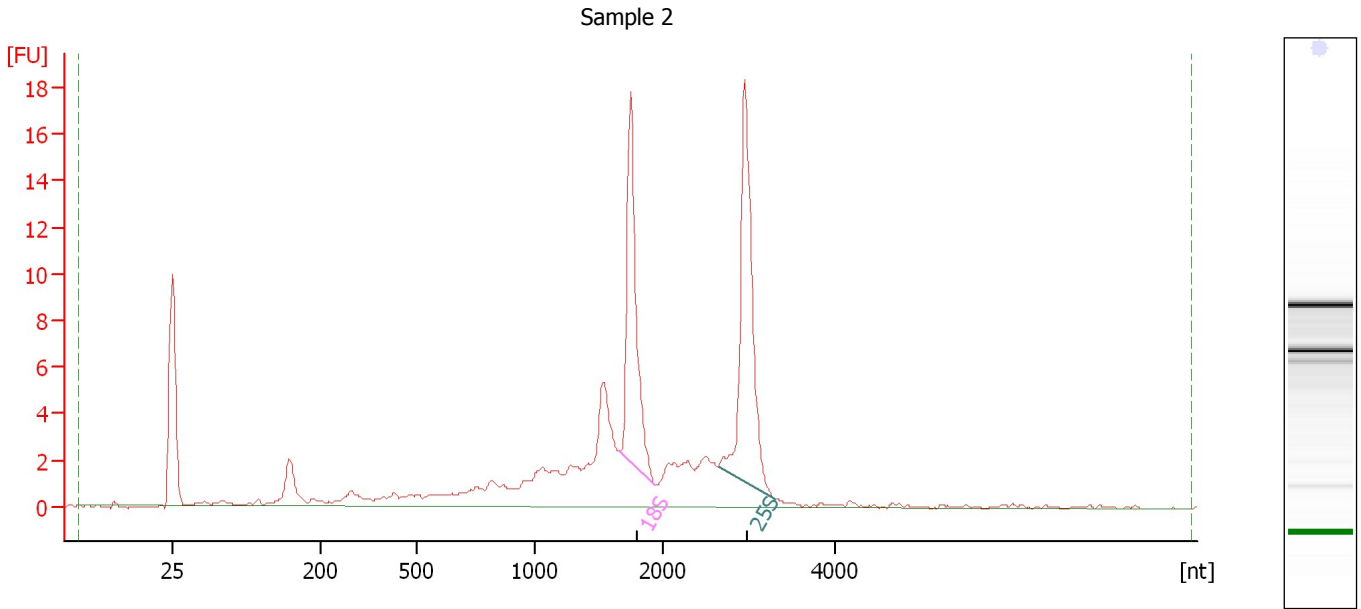
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	1,949	157.4	22.7
25S	2,660	3,409	222.1	32.1

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	104.0	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	75 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: 7.30

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

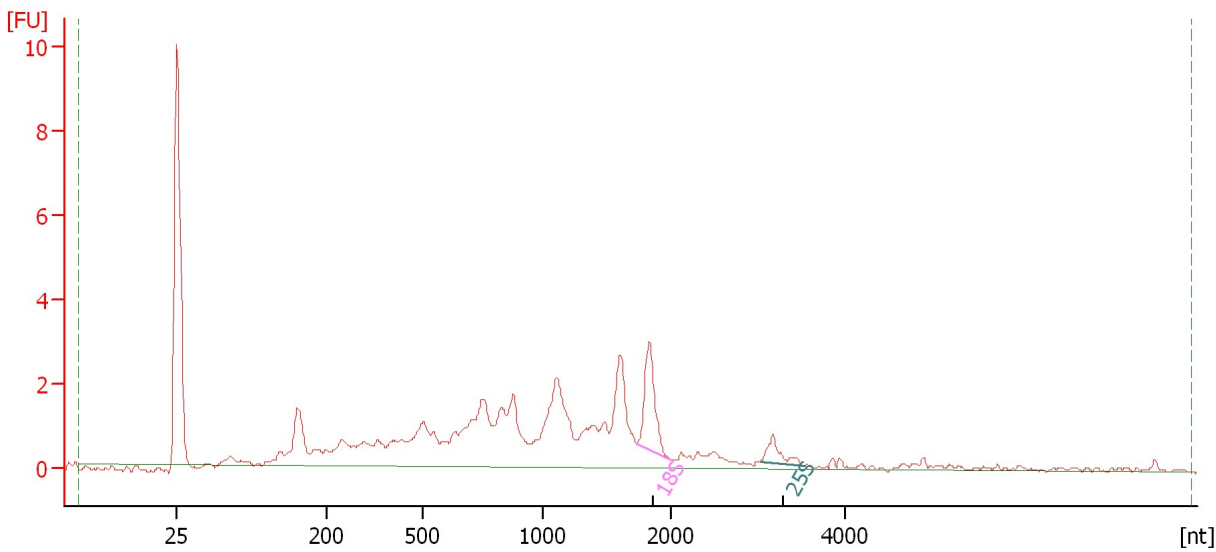
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,652	1,935	16.7	16.1
25S	2,645	3,308	21.1	20.3

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 PM

**Electropherogram Summary Continued ...**

Sample 3



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

RNA Area:	47.1	RNA Integrity Number (RIN):	6.3 (B.02.08)
RNA Concentration:	34 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]:	0.3	Result Flagging Label:	RIN: 6.30

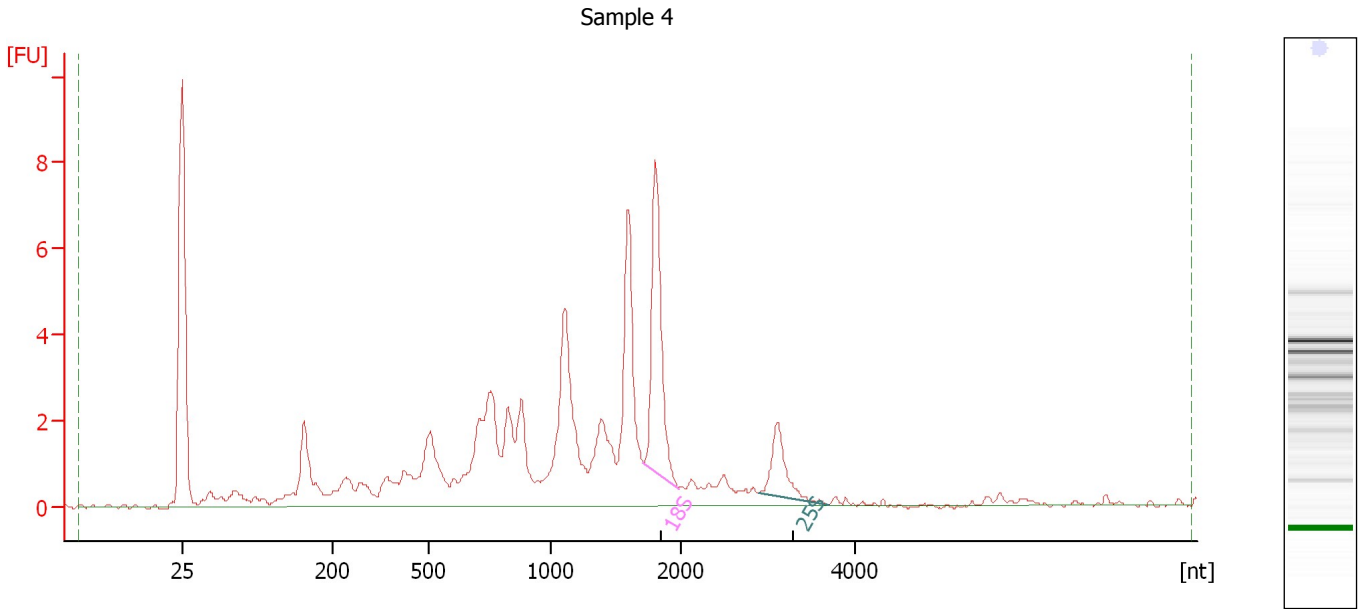
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,728	2,000	3.0	6.3
25S	3,018	3,520	0.9	1.9

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	74.0	RNA Integrity Number (RIN):	6 (B.02.08)
RNA Concentration:	53 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]:	0.3	Result Flagging Label:	RIN:6

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

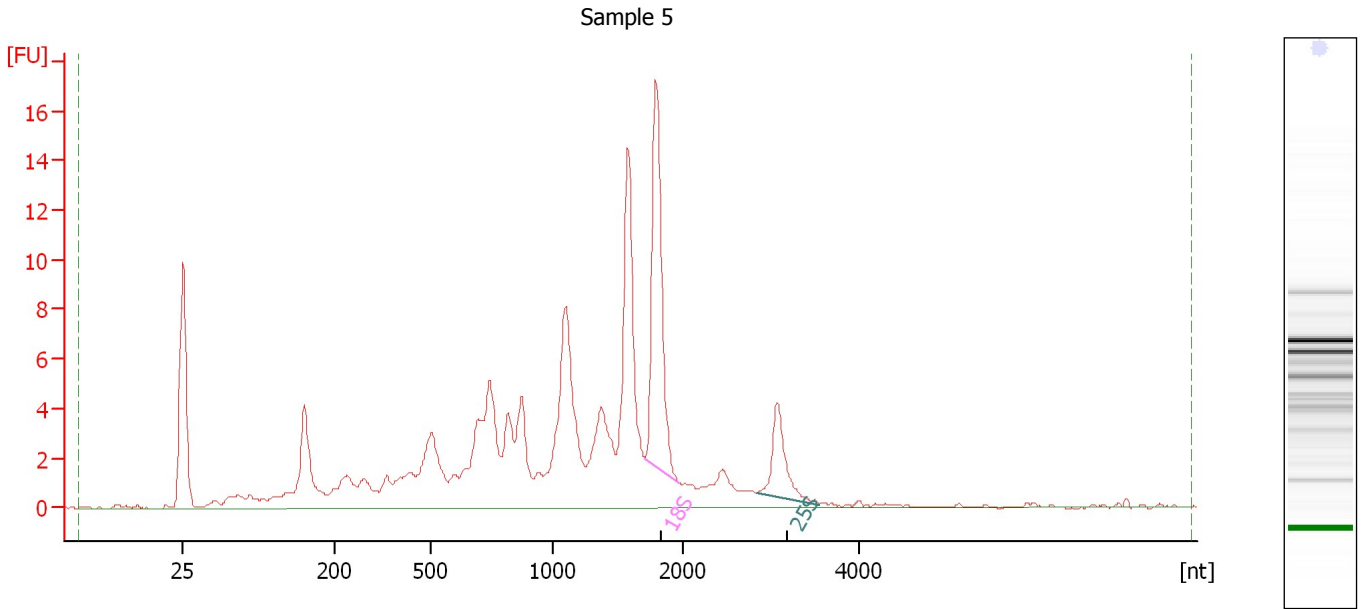
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,716	1,985	7.8	10.6
25S	2,886	3,691	2.4	3.2



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	146.5	RNA Integrity Number (RIN):	5.6 (B.02.08)
RNA Concentration:	106 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]:	0.3	Result Flagging Label:	RIN: 5.60

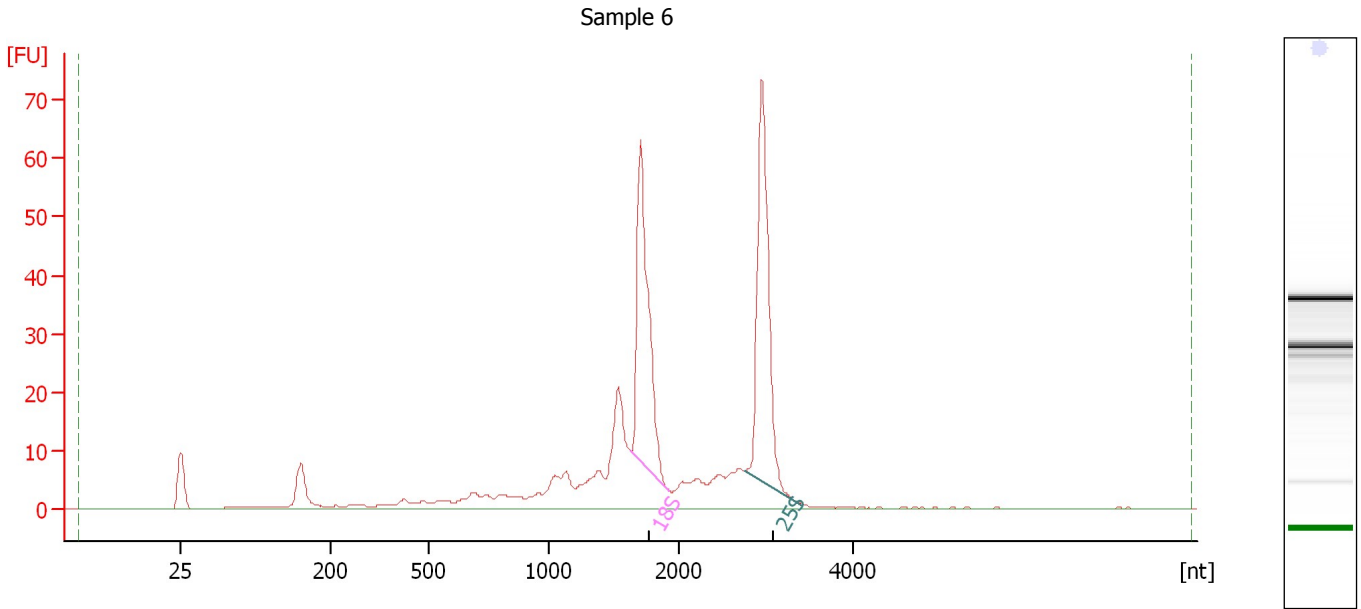
**Fragment table for sample 5 : Sample 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,717	1,977	17.3	11.8
25S	2,847	3,561	5.0	3.4

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	352.3	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	254 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: 7.70

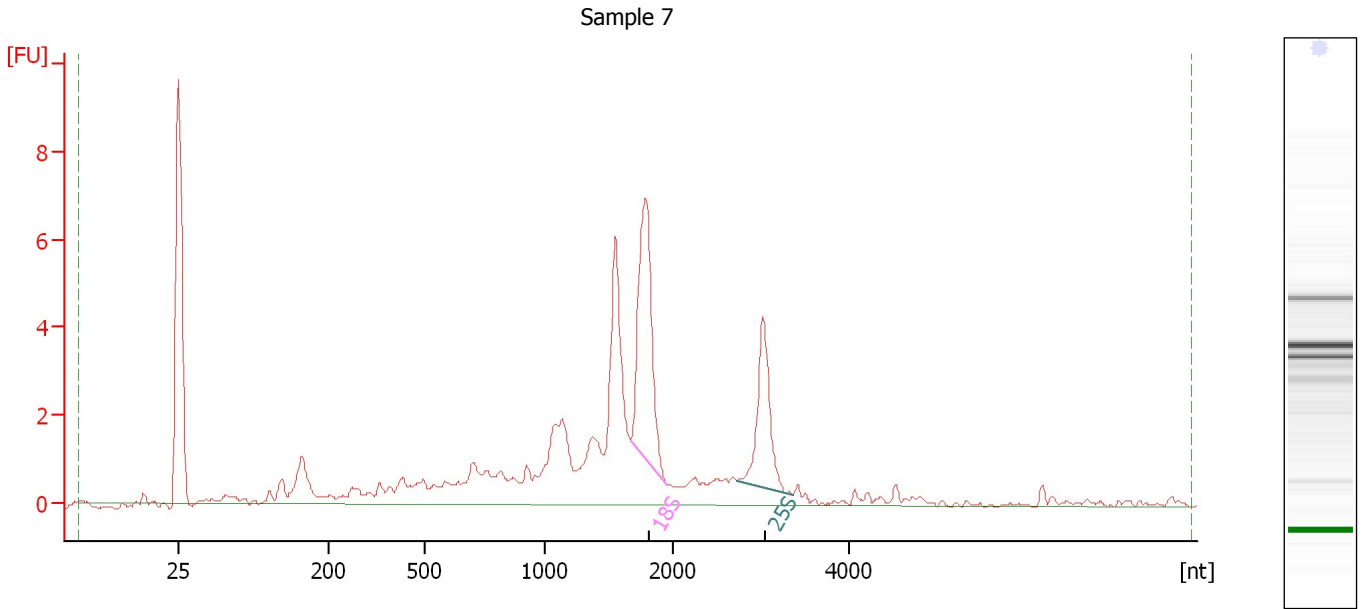
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	1,932	69.9	19.8
25S	2,771	3,411	78.2	22.2

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	58.3	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	42 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]:	0.5	Result Flagging Label:	RIN: 6.80

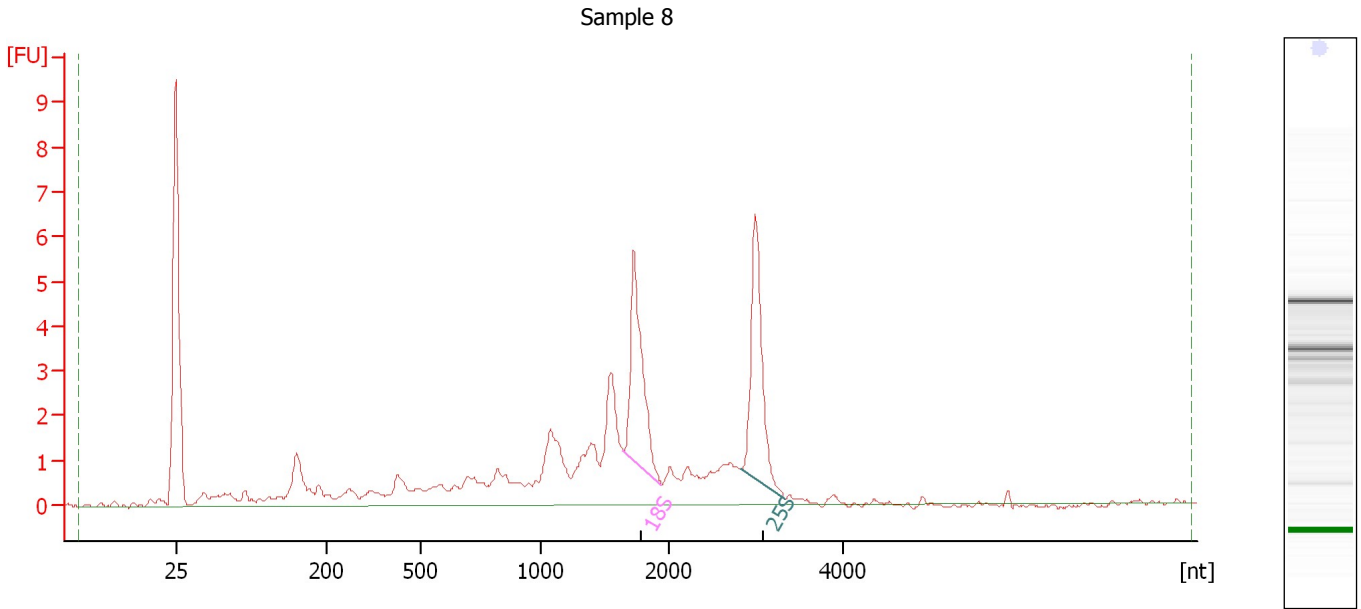
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	1,948	9.0	15.4
25S	2,721	3,364	4.9	8.5

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	54.9	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	40 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: 7.10

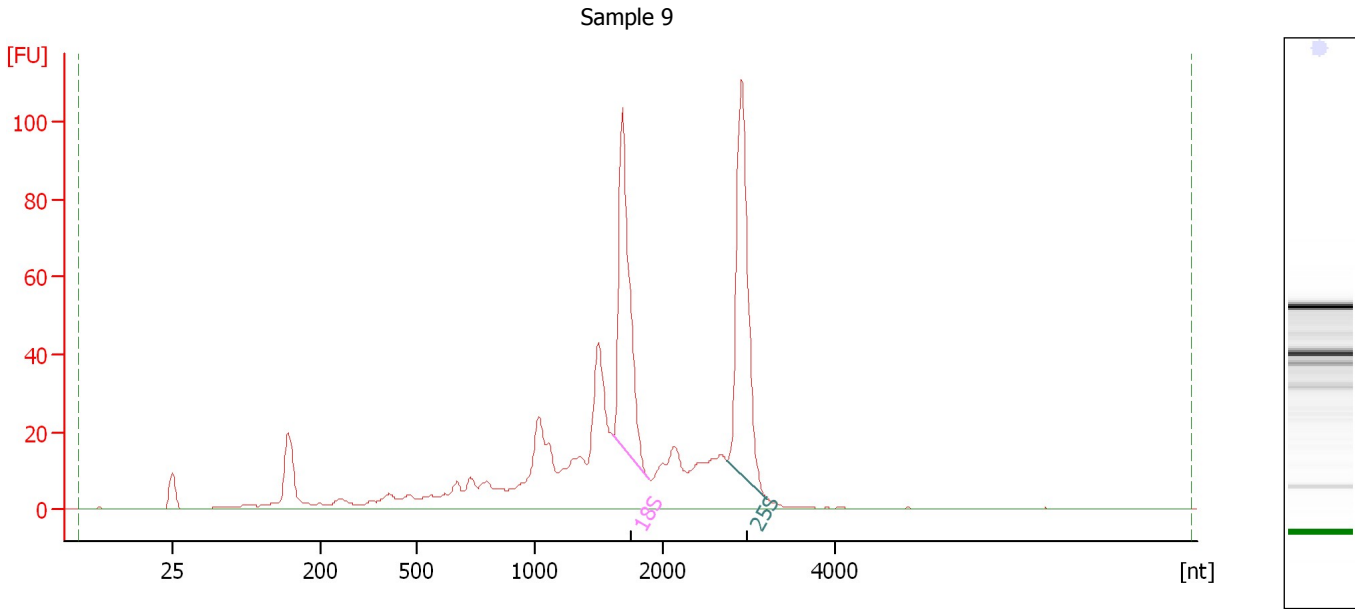
**Fragment table for sample 8 : Sample 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	1,938	6.3	11.5
25S	2,825	3,329	6.6	11.9

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	708.8	RNA Integrity Number (RIN):	6.9 (B.02.08)
RNA Concentration:	511 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: 6.90

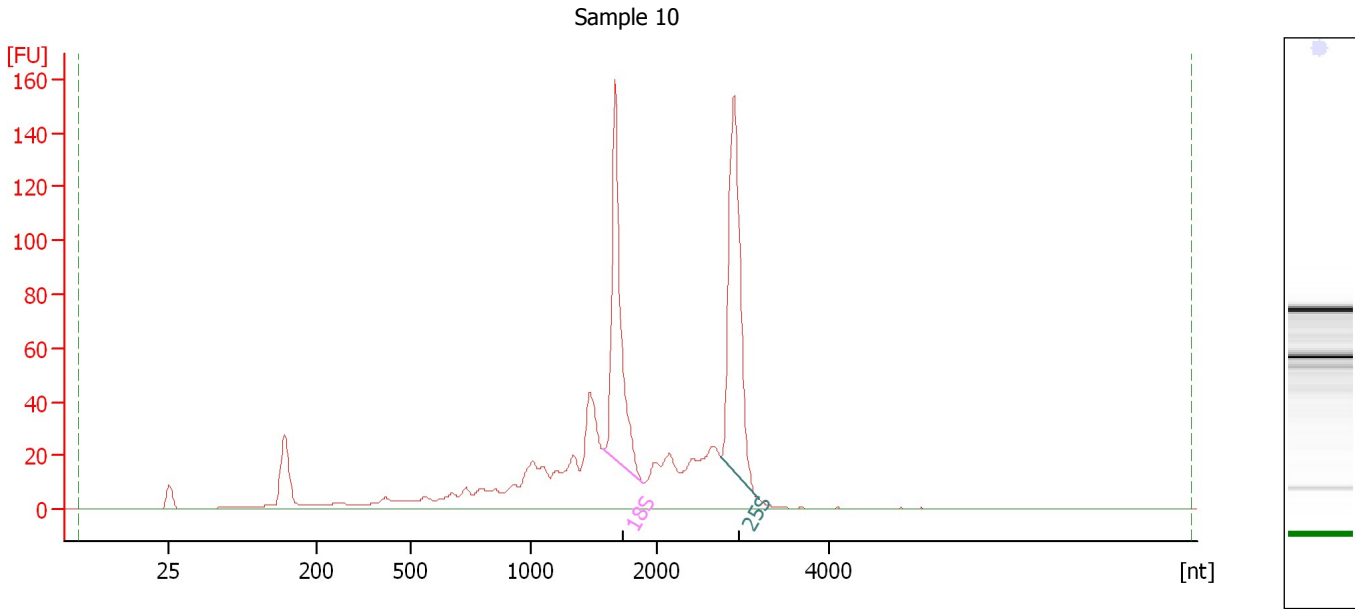
**Fragment table for sample 9 : Sample 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,608	1,891	105.8	14.9
25S	2,749	3,204	120.9	17.1

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	890.6	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	642 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

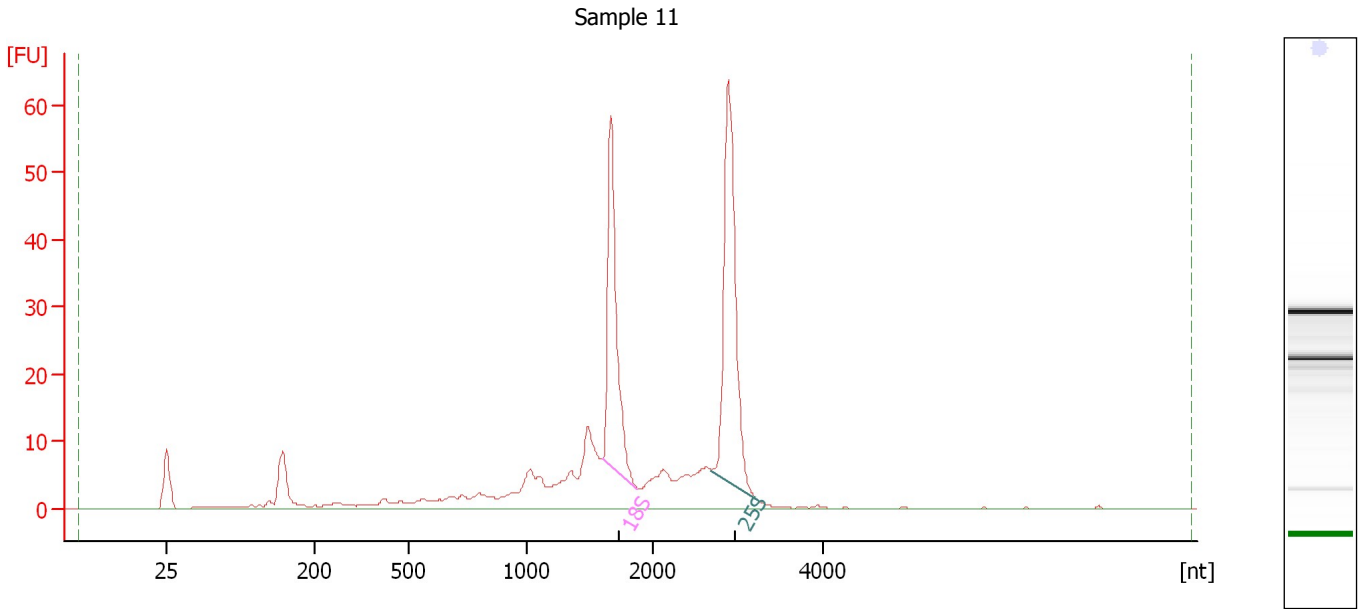
**Fragment table for sample 10 : Sample 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,577	1,888	144.1	16.2
25S	2,751	3,183	167.3	18.8

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	299.4	RNA Integrity Number (RIN):	7.6 (B.02.08)
RNA Concentration:	216 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: 7.60

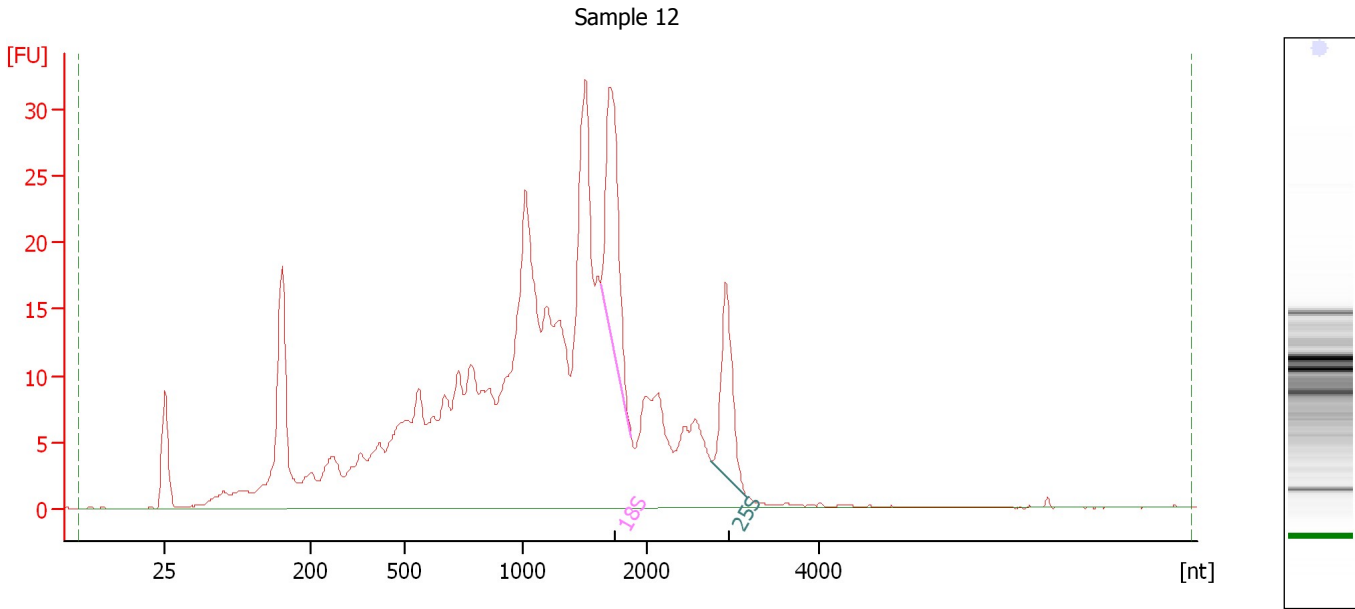
**Fragment table for sample 11 : Sample 11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,609	1,886	52.0	17.4
25S	2,700	3,238	72.3	24.1

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	510.1	RNA Integrity Number (RIN):	4.5 (B.02.08)
RNA Concentration:	368 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]:	0.6	Result Flagging Label:	RIN: 4.50

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

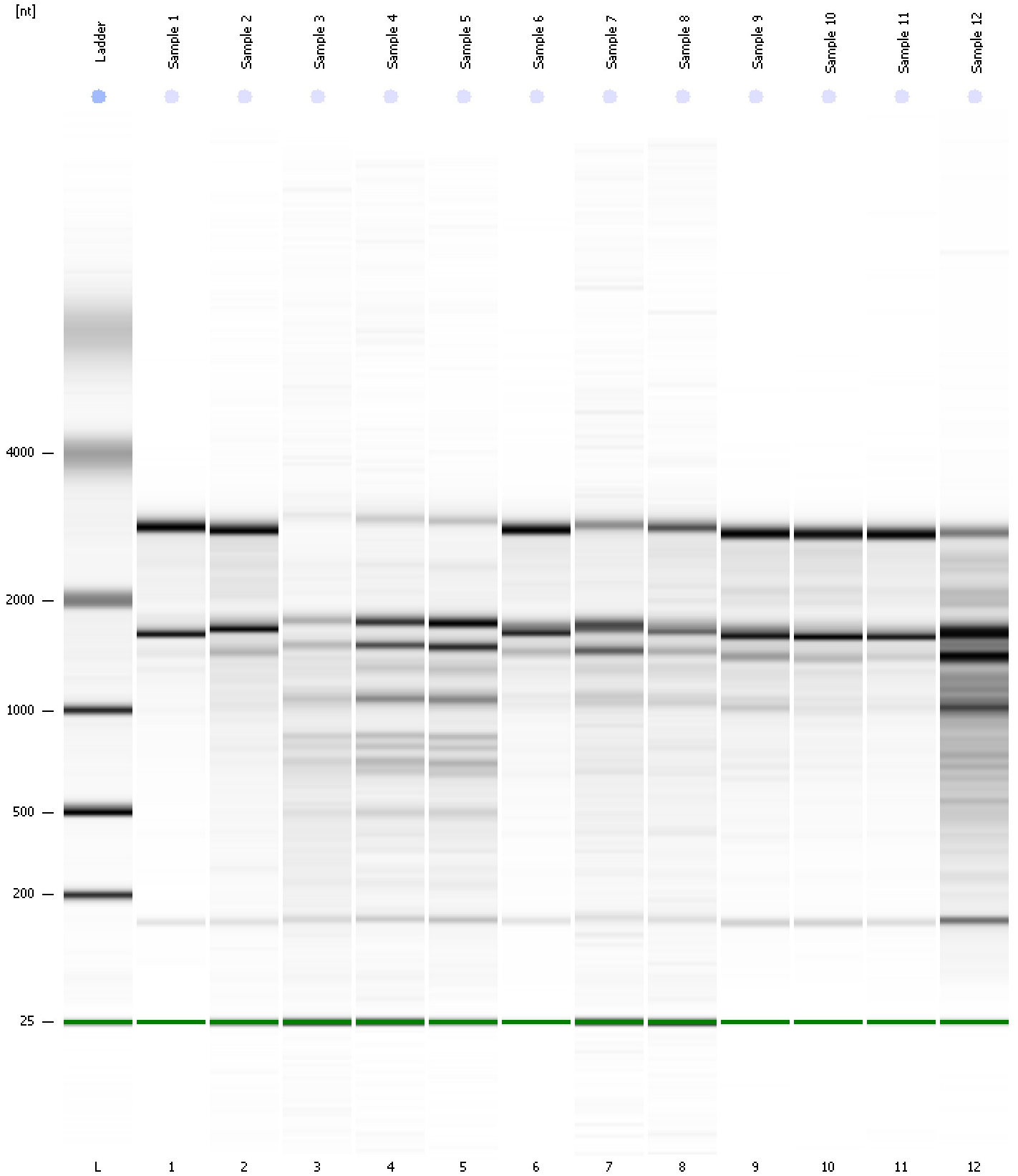
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,866	28.3	5.6
25S	2,753	3,162	17.0	3.3



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
Modified: 1/20/2016 12:14:56 PM

**Gel Image**



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-20\2016-01-20\_002.xad

Created: 1/20/2016 11:51:04 AM  
 Modified: 1/20/2016 12:14:56 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		1/20/2016 12:14:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-01-20\2016-01-20_002.xad)		Instrument	Run		1/20/2016 11:51:10 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/20/2016 11:51:10 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/20/2016 11:51:10 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/20/2016 11:51:10 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/20/2016 11:51:10 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/20/2016 11:51:10 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/20/2016 11:51:10 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1