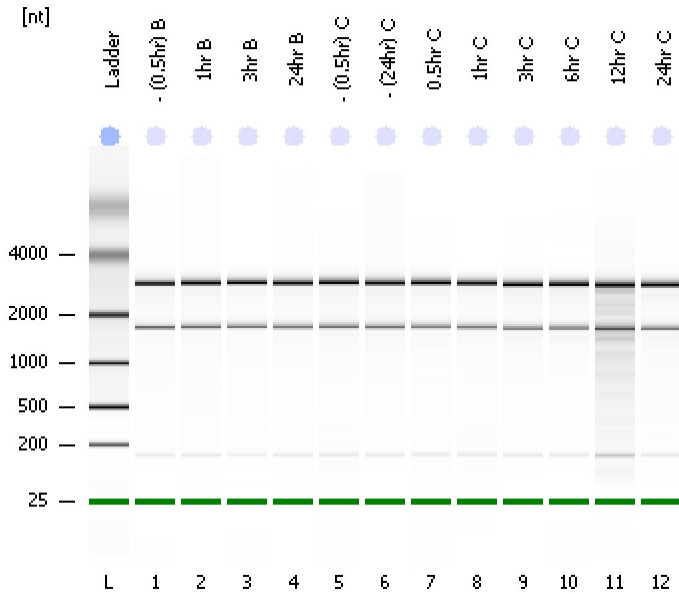


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

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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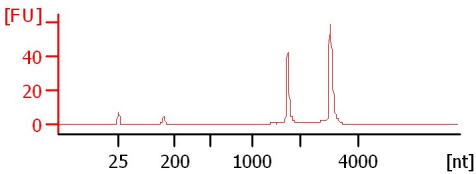
Chip Information:

Chip Lot #:

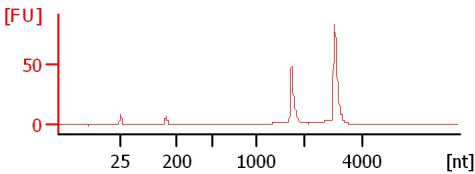
Reagent Kit Lot #:

Chip Comments:

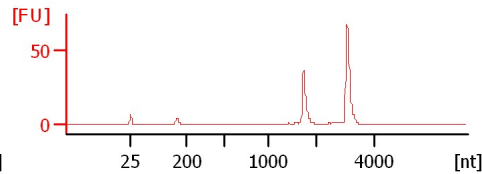
**-(0.5hr) B**  
RIN: 9.60



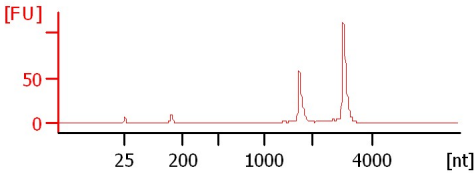
**1hr B**  
RIN: 9.60



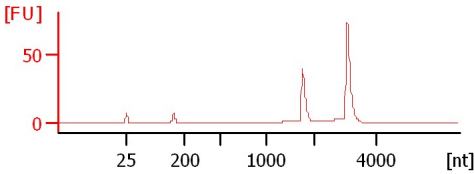
**3hr B**  
RIN: 9.50



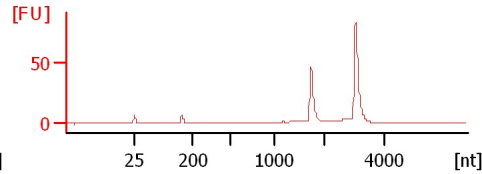
**24hr B**  
RIN: 9.60



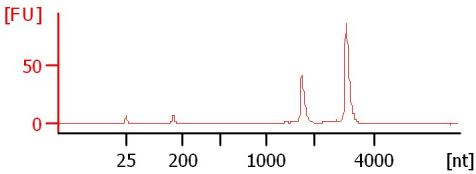
**-(0.5hr) C**  
RIN: 9.60



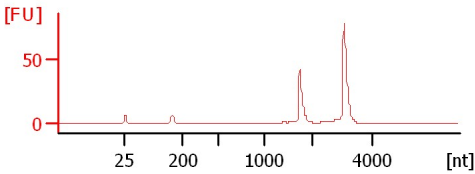
**-(24hr) C**  
RIN: 9.90



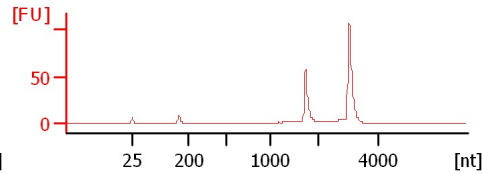
**0.5hr C**  
RIN: 9.50



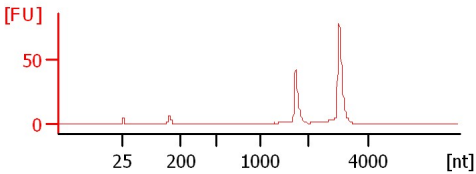
**1hr C**  
RIN: 9.50



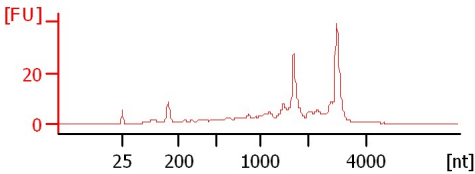
**3hr C**  
RIN: 9.20



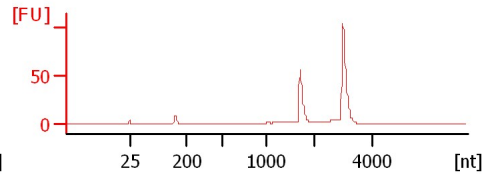
**6hr C**  
RIN: 9.60



**12hr C**  
RIN: 7.50



**24hr C**  
RIN: 9.10



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
 Modified: 3/23/2017 10:41:46 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
- (0.5hr) B		✓	RIN: 9.60	
1hr B		✓	RIN: 9.60	
3hr B		✓	RIN: 9.50	
24hr B		✓	RIN: 9.60	
- (0.5hr) C		✓	RIN: 9.60	
- (24hr) C		✓	RIN: 9.90	
0.5hr C		✓	RIN: 9.50	
1hr C		✓	RIN: 9.50	
3hr C		✓	RIN: 9.20	
6hr C		✓	RIN: 9.60	
12hr C		✓	RIN: 7.50	
24hr C		✓	RIN: 9.10	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

**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

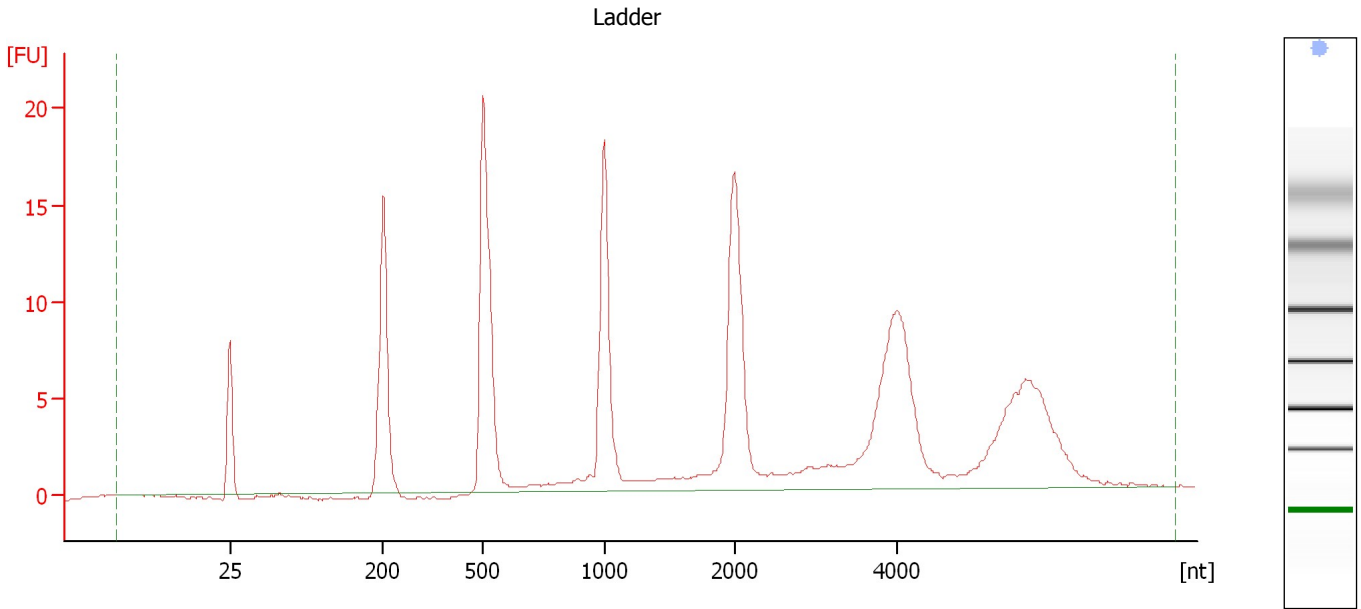
**Ladder**

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\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

**Electropherogram Summary**



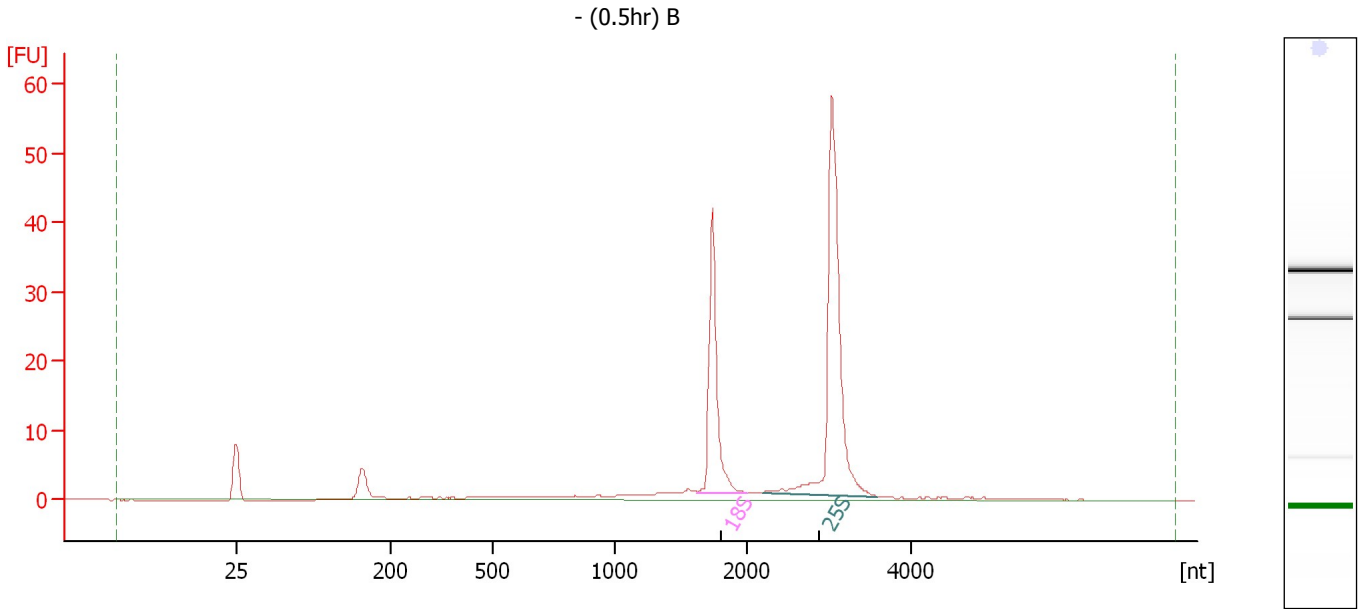
**Overall Results for Ladder**

RNA Area:	176.3	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:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : - (0.5hr) B**

RNA Area:	150.2	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	128 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]:	1.9	Result Flagging Label:	RIN: 9.60

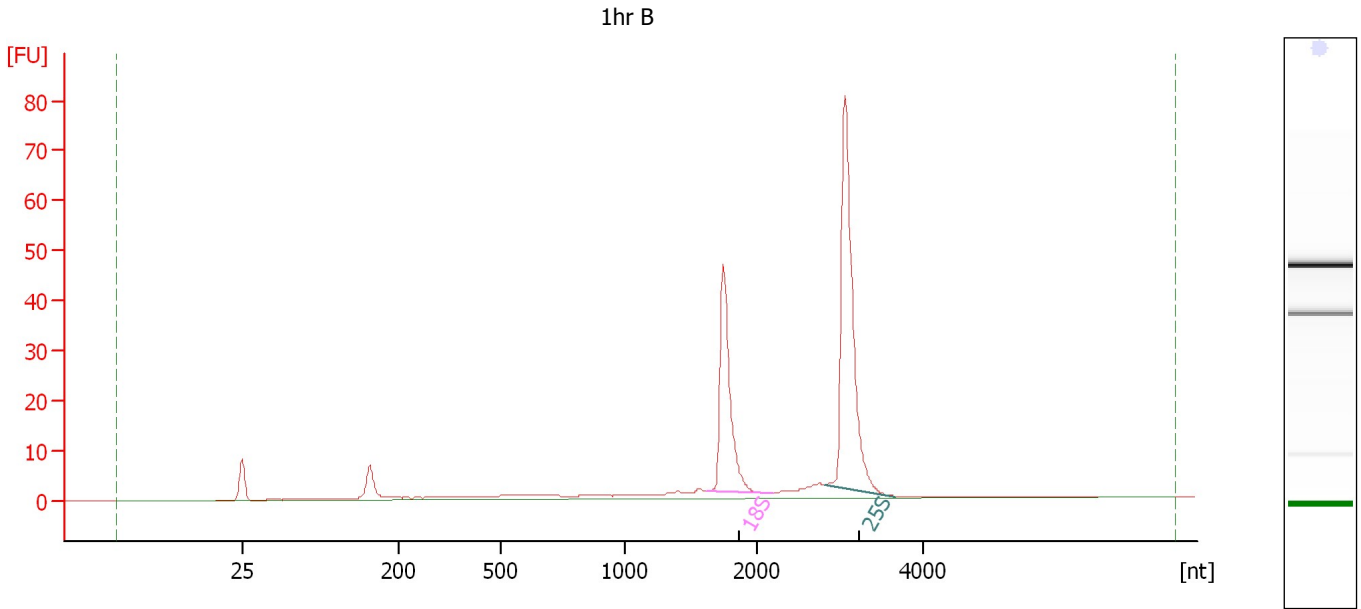
**Fragment table for sample 1 : - (0.5hr) B**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,621	1,994	34.9	23.2
25S	2,185	3,589	66.7	44.4

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 1hr B**

RNA Area: 201.8                      RNA Integrity Number (RIN): 9.6 (B.02.08)  
RNA Concentration: 172 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.8                      Result Flagging Label: RIN: 9.60

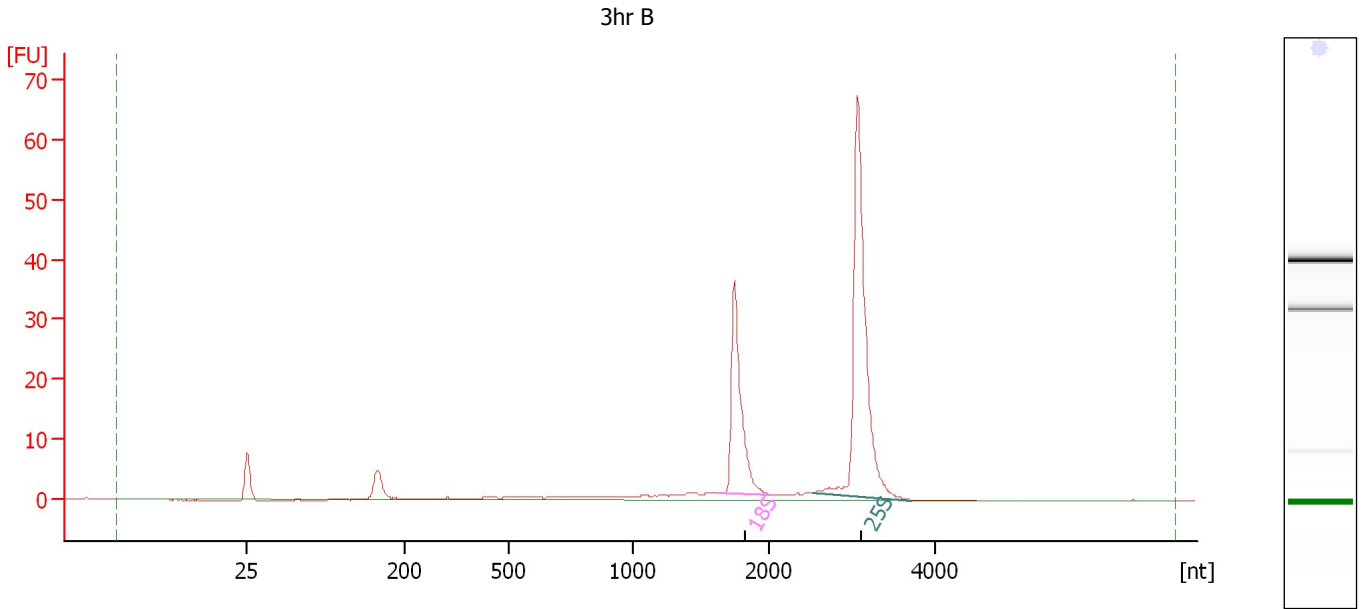
**Fragment table for sample 2 : 1hr B**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	2,174	49.7	24.6
25S	2,804	3,654	89.6	44.4

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 3hr B**

RNA Area: 150.9                      RNA Integrity Number (RIN): 9.5 (B.02.08)  
RNA Concentration: 128 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.0                      Result Flagging Label: RIN: 9.50

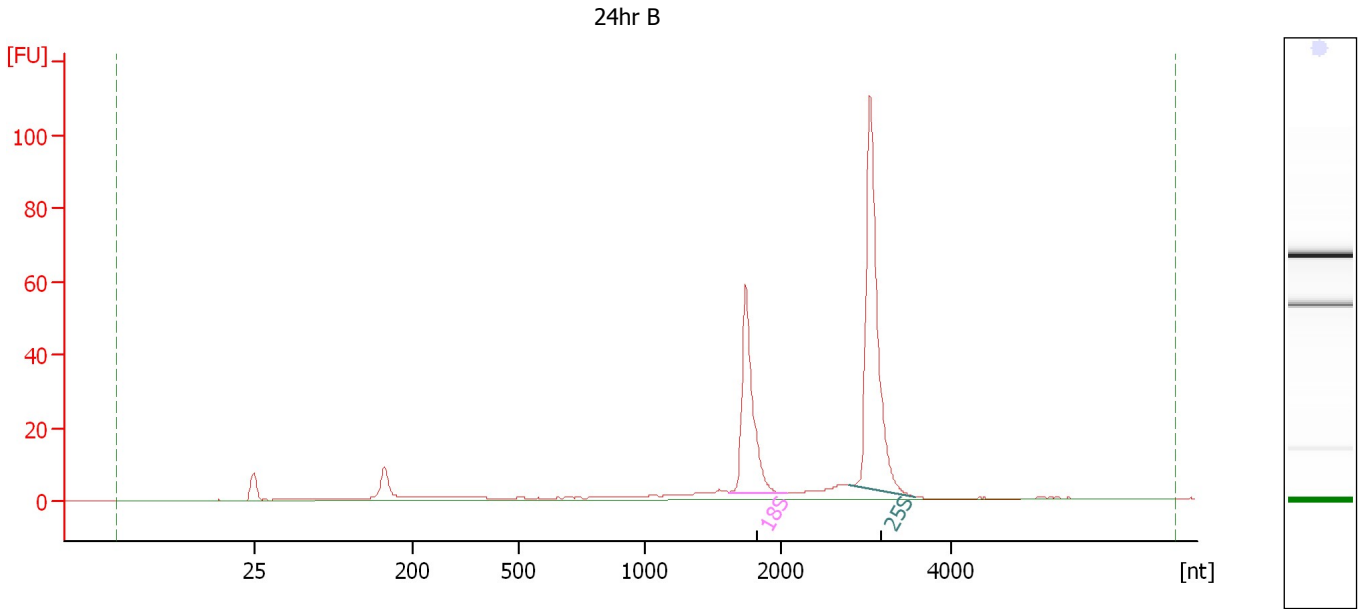
**Fragment table for sample 3 : 3hr B**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,640	2,035	38.4	25.5
25S	2,532	3,705	78.0	51.7

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 24hr B**

RNA Area: 281.6                      RNA Integrity Number (RIN): 9.6 (B.02.08)  
RNA Concentration: 240 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.8                      Result Flagging Label: RIN: 9.60

**Fragment table for sample 4 : 24hr B**

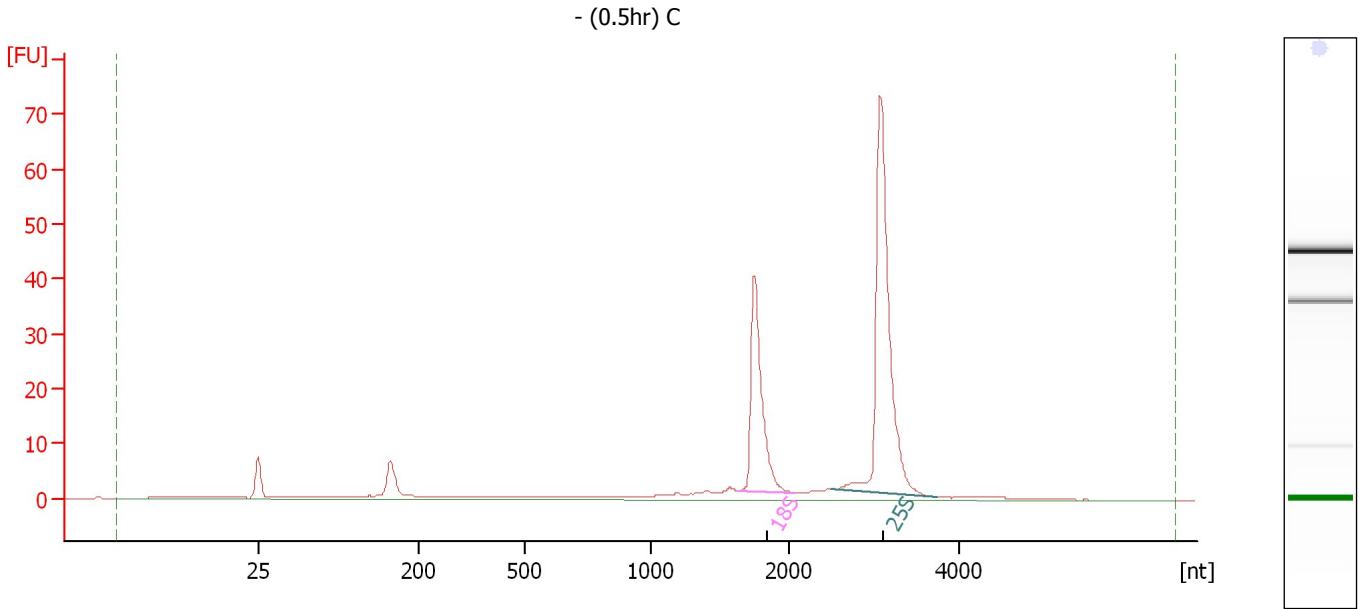
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	2,076	65.4	23.2
25S	2,807	3,588	120.0	42.6



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : - (0.5hr) C**

RNA Area: 206.0                      RNA Integrity Number (RIN): 9.6 (B.02.08)  
RNA Concentration: 175 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.0                      Result Flagging Label: RIN: 9.60

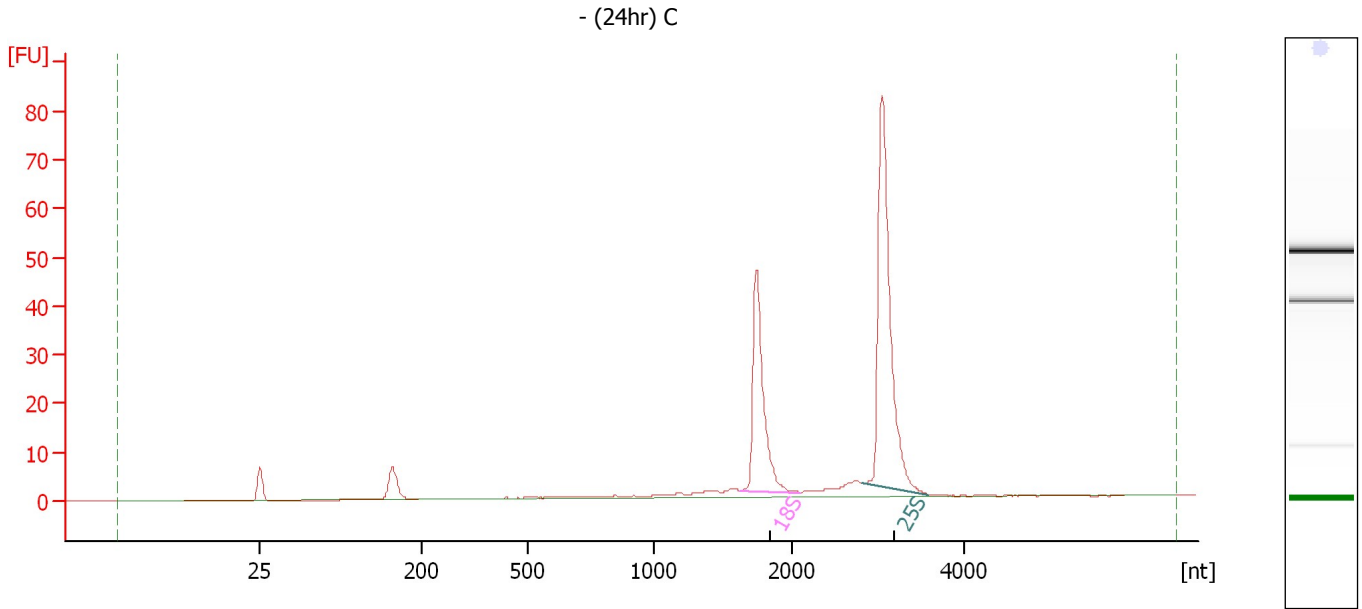
**Fragment table for sample 5 : - (0.5hr) C**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	2,078	44.9	21.8
25S	2,490	3,741	90.7	44.0

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : - (24hr) C**

RNA Area: 197.8 RNA Integrity Number (RIN): 9.9 (B.02.08)  
RNA Concentration: 168 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN: 9.90

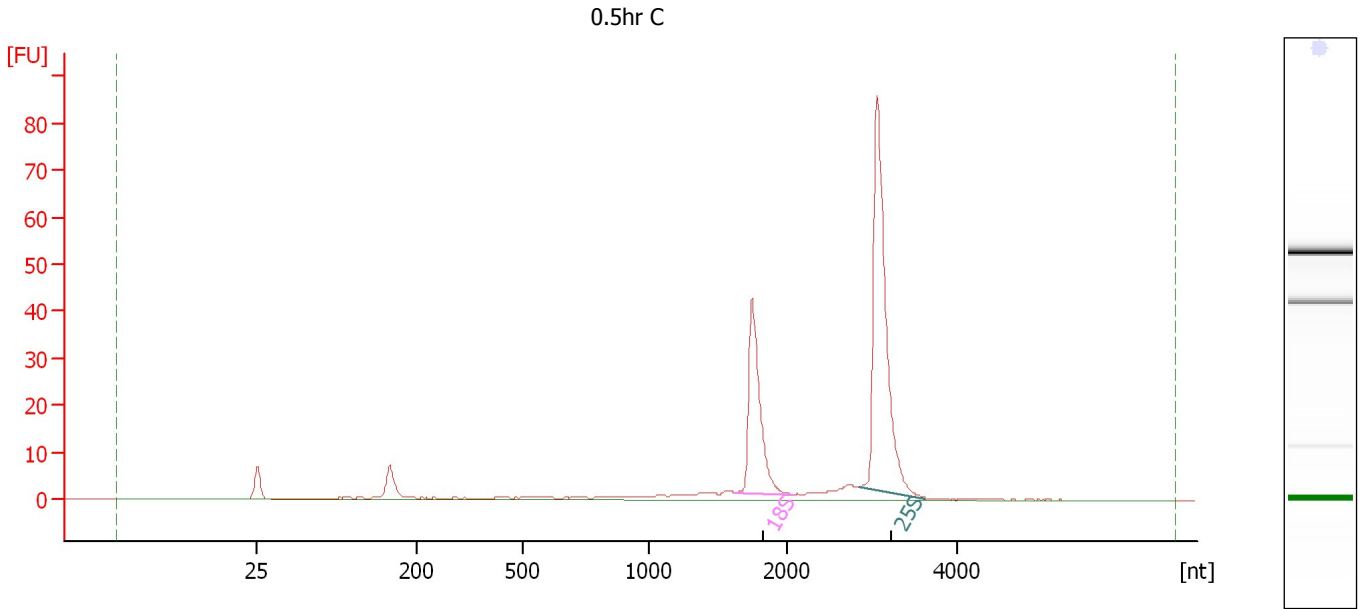
**Fragment table for sample 6 : - (24hr) C**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,621	2,091	49.4	25.0
25S	2,827	3,588	90.2	45.6

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 0.5hr C**

RNA Area: 217.8                      RNA Integrity Number (RIN): 9.5 (B.02.08)  
RNA Concentration: 185 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.0                      Result Flagging Label: RIN: 9.50

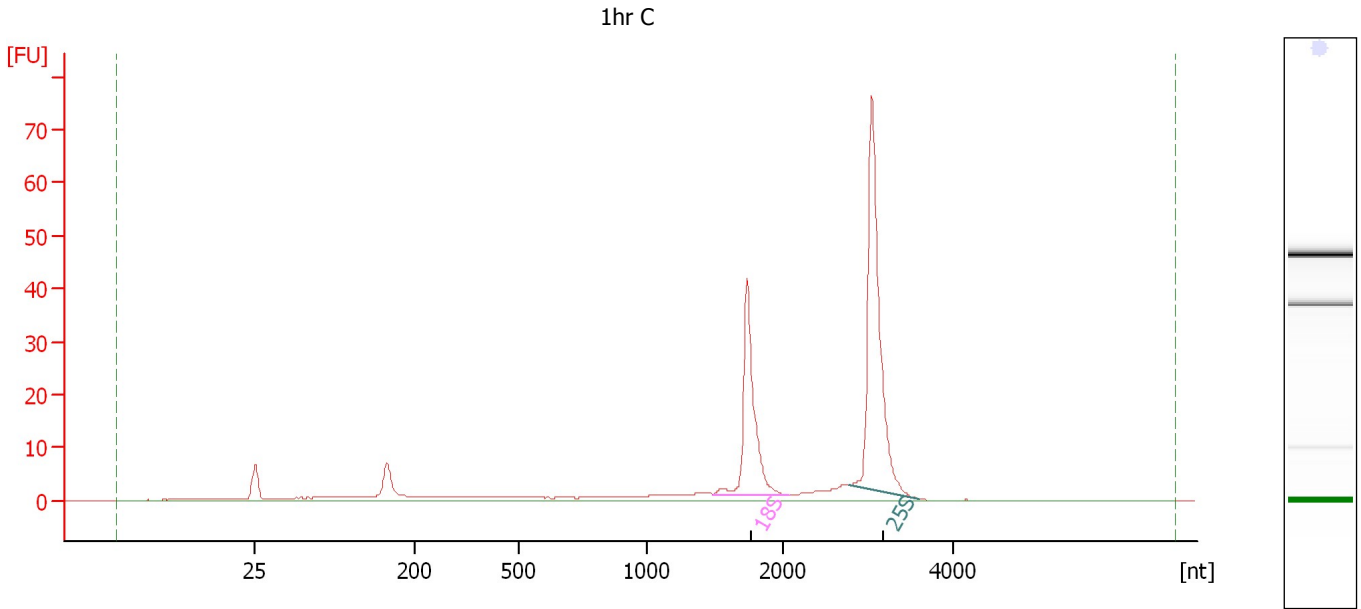
**Fragment table for sample 7 : 0.5hr C**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	2,077	49.4	22.7
25S	2,841	3,631	99.3	45.6

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 1hr C**

RNA Area:	210.7	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	179 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]:	1.8	Result Flagging Label:	RIN: 9.50

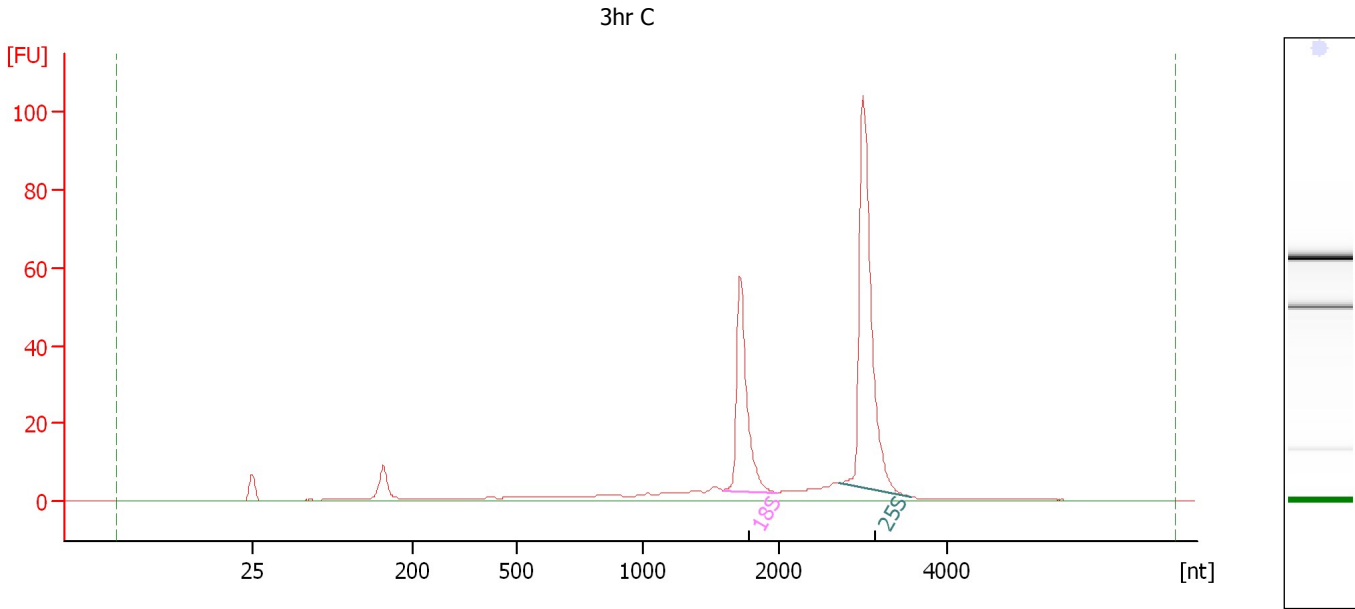
**Fragment table for sample 8 : 1hr C**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,491	2,064	46.4	22.0
25S	2,781	3,610	84.3	40.0

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 3hr C**

RNA Area:	289.8	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	247 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]:	2.0	Result Flagging Label:	RIN: 9.20

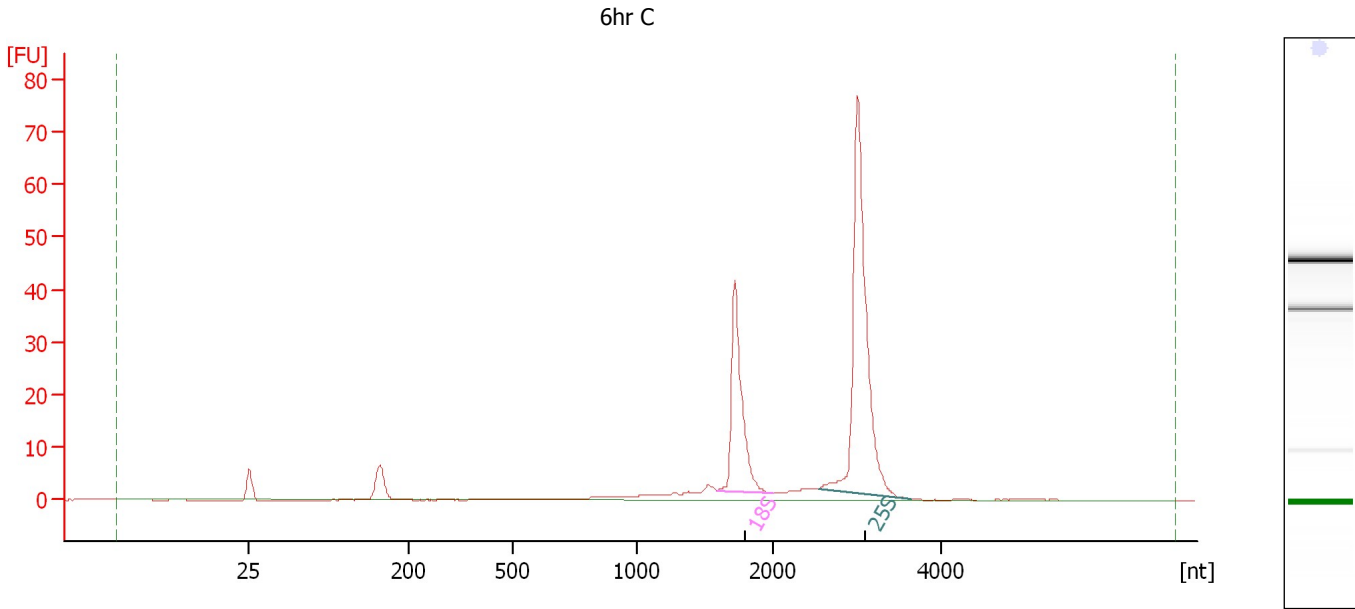
**Fragment table for sample 9 : 3hr C**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,591	1,984	60.0	20.7
25S	2,707	3,578	118.3	40.8

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
 Modified: 3/23/2017 10:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 6hr C**

RNA Area:	200.0	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	170 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]:	2.1	Result Flagging Label:	RIN: 9.60

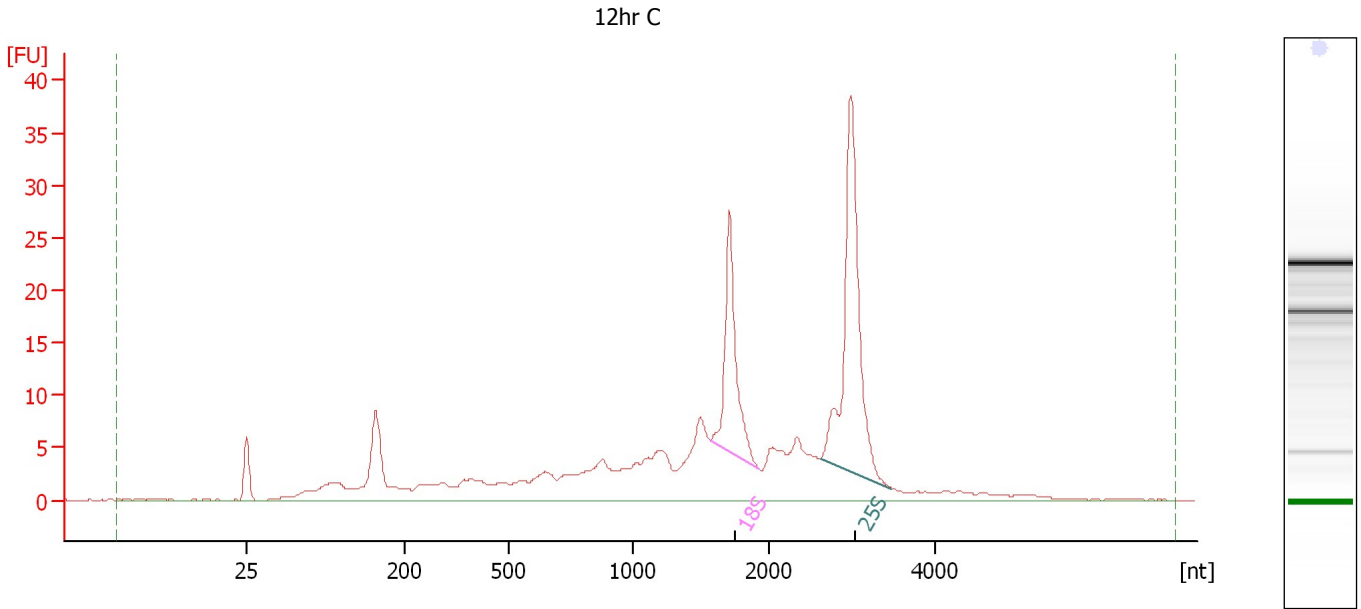
**Fragment table for sample 10 : 6hr C**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,595	1,998	45.8	22.9
25S	2,557	3,661	96.2	48.1

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 12hr C**

RNA Area: 272.9                      RNA Integrity Number (RIN): 7.5 (B.02.08)  
RNA Concentration: 232 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.9                      Result Flagging Label: RIN: 7.50

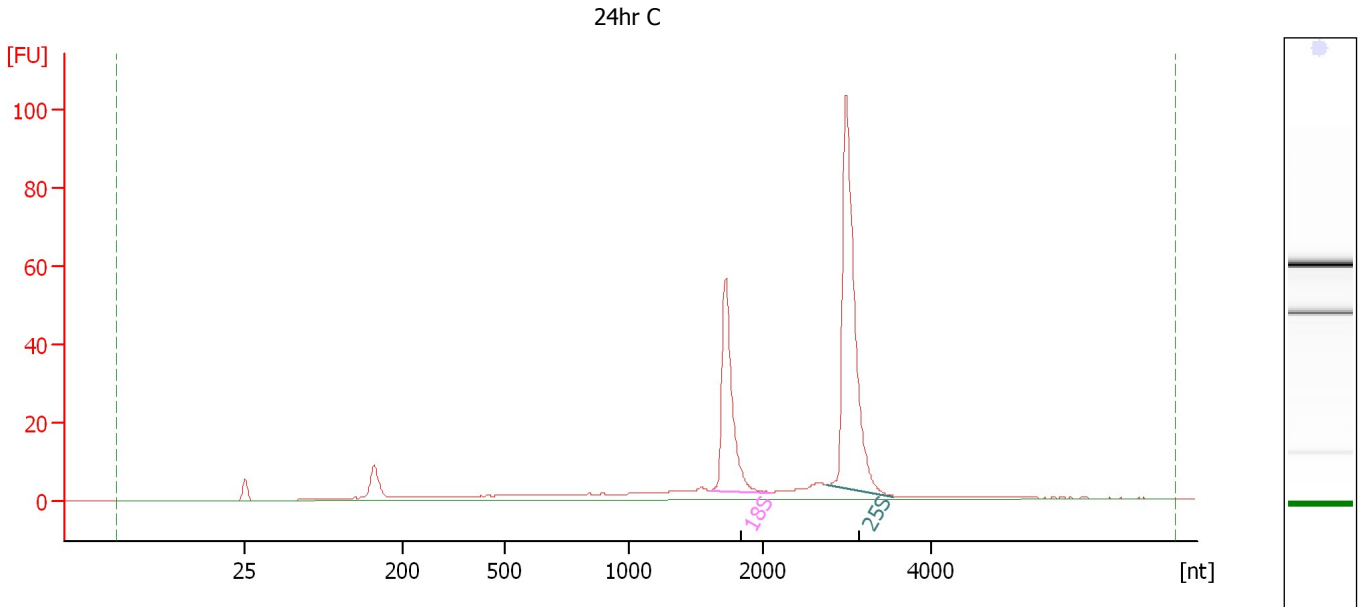
**Fragment table for sample 11 : 12hr C**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,569	1,934	27.3	10.0
25S	2,621	3,475	51.5	18.9

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 24hr C**

RNA Area: 288.8                      RNA Integrity Number (RIN): 9.1 (B.02.08)  
RNA Concentration: 246 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.0                      Result Flagging Label: RIN: 9.10

**Fragment table for sample 12 : 24hr C**

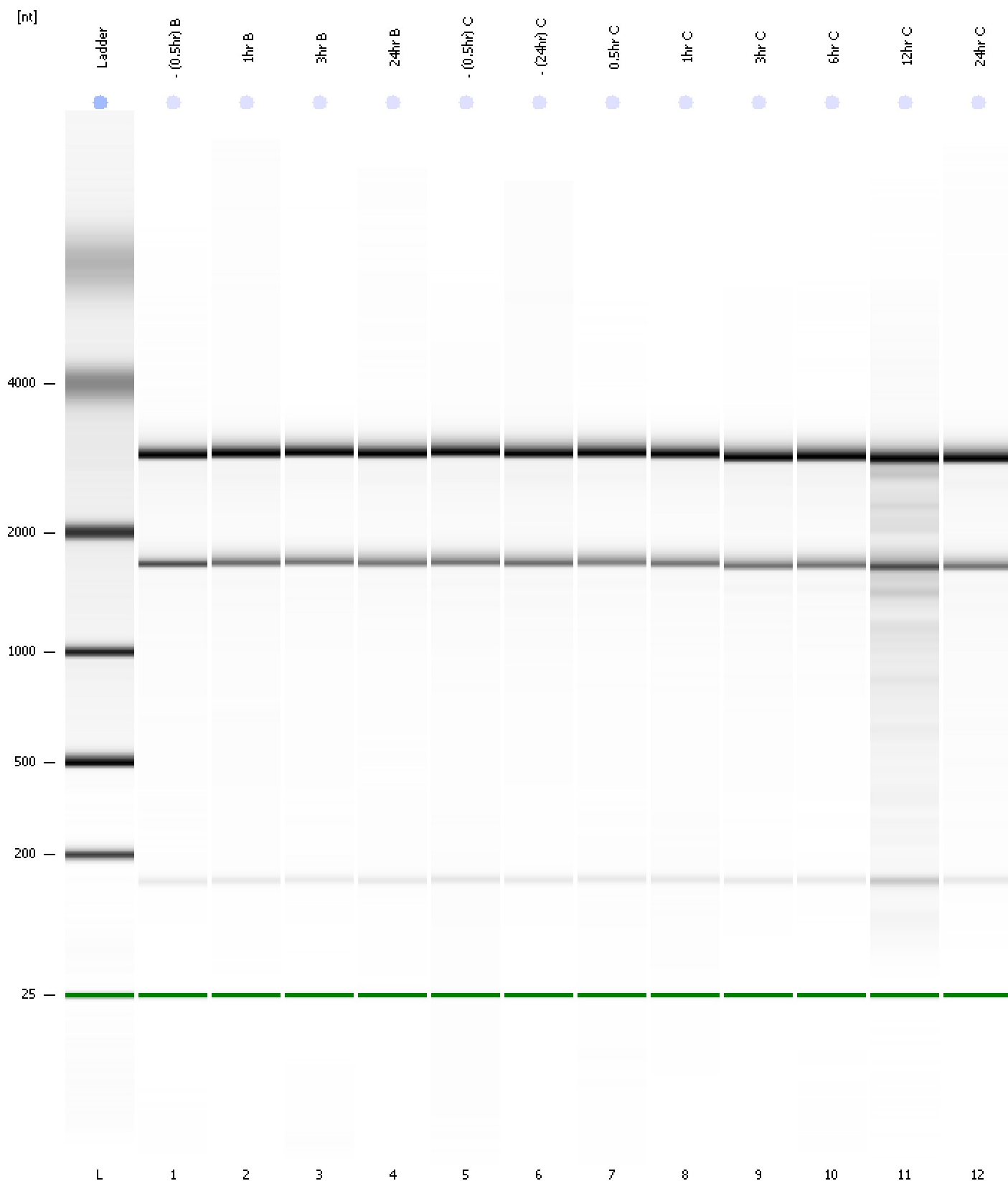
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,598	2,085	60.3	20.9
25S	2,763	3,557	119.9	41.5



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
Modified: 3/23/2017 10:41:46 AM

**Gel Image**



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-23\2017-03-23\_001.xad

Created: 3/23/2017 10:17:58 AM  
 Modified: 3/23/2017 10:41:46 AM

**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		3/23/2017 10:41:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-03-23\2017-03-23_001.xad)		Instrument	Run		3/23/2017 10:18:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/23/2017 10:18:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/23/2017 10:18:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/23/2017 10:18:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/23/2017 10:18:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/23/2017 10:18:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/23/2017 10:18:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1