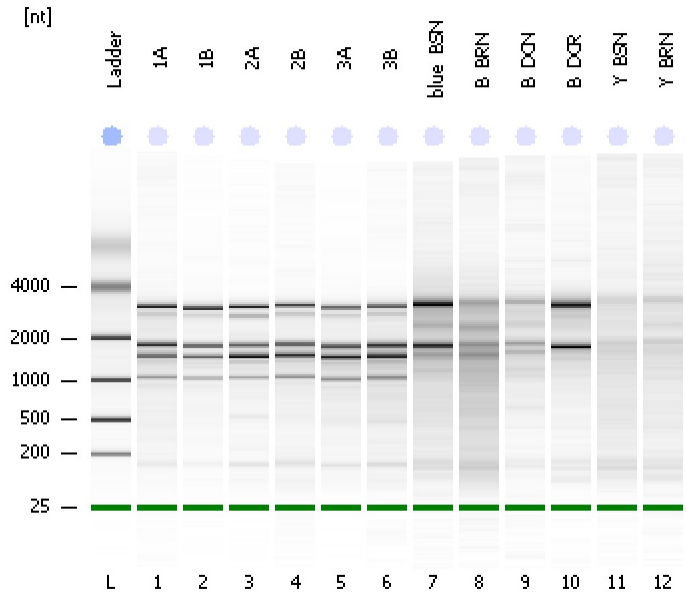


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
Modified: 2/10/2015 4:16:11 PM

### Electrophoresis File Run Summary



#### Instrument Information:

Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### Assay Information:

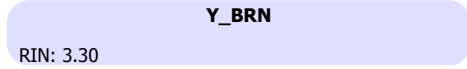
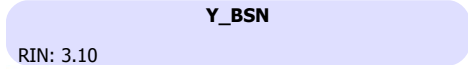
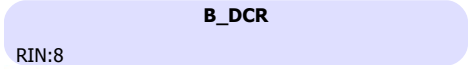
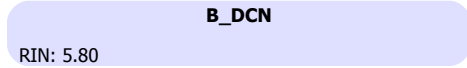
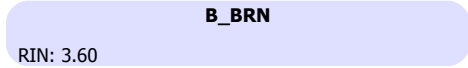
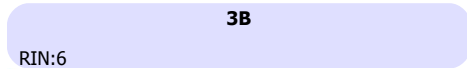
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

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:



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
 Modified: 2/10/2015 4:16:11 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
1A		✓	RIN: 6.80	
1B		✓	RIN: 6.90	
2A		✓	RIN: 6.50	
2B		✓	RIN: 6.50	
3A		✓	RIN: 6.10	
3B		✓	RIN:6	
blue_BSN		✓	RIN: 6.60	
B_BRN		✓	RIN: 3.60	
B_DCN		✓	RIN: 5.80	
B_DCR		✓	RIN:8	
Y_BSN		✓	RIN: 3.10	
Y_BRN		✓	RIN: 3.30	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
Modified: 2/10/2015 4:16:11 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

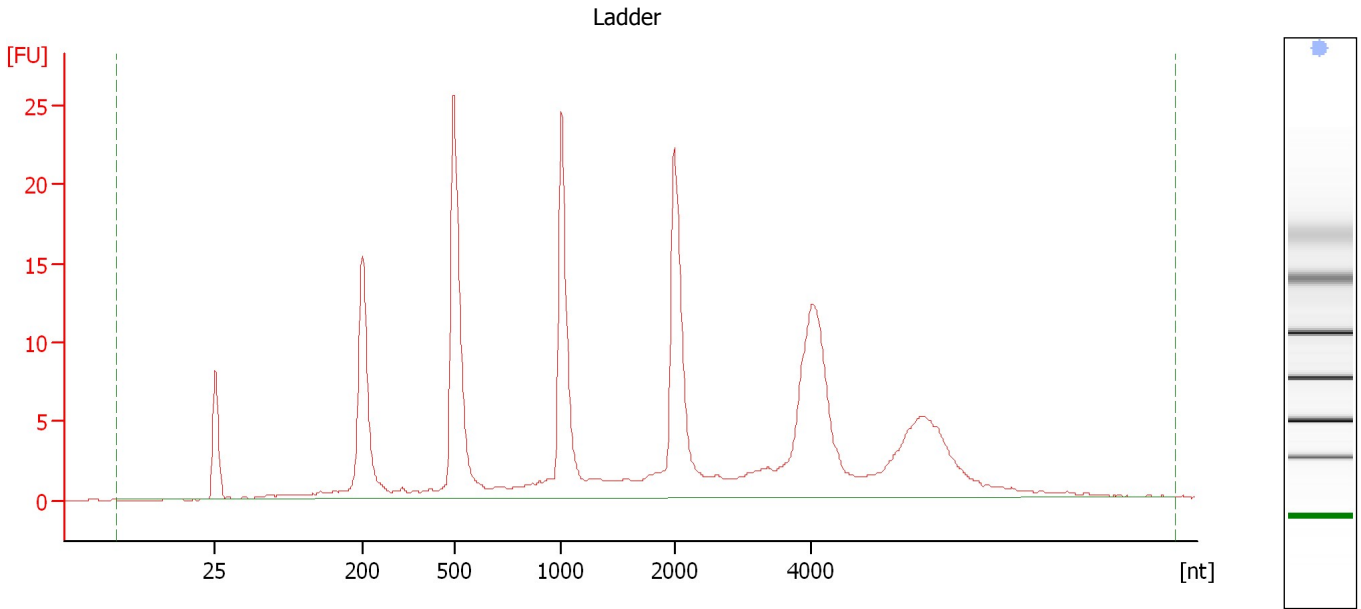
**Ladder**

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\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
Modified: 2/10/2015 4:16:11 PM

**Electropherogram Summary**



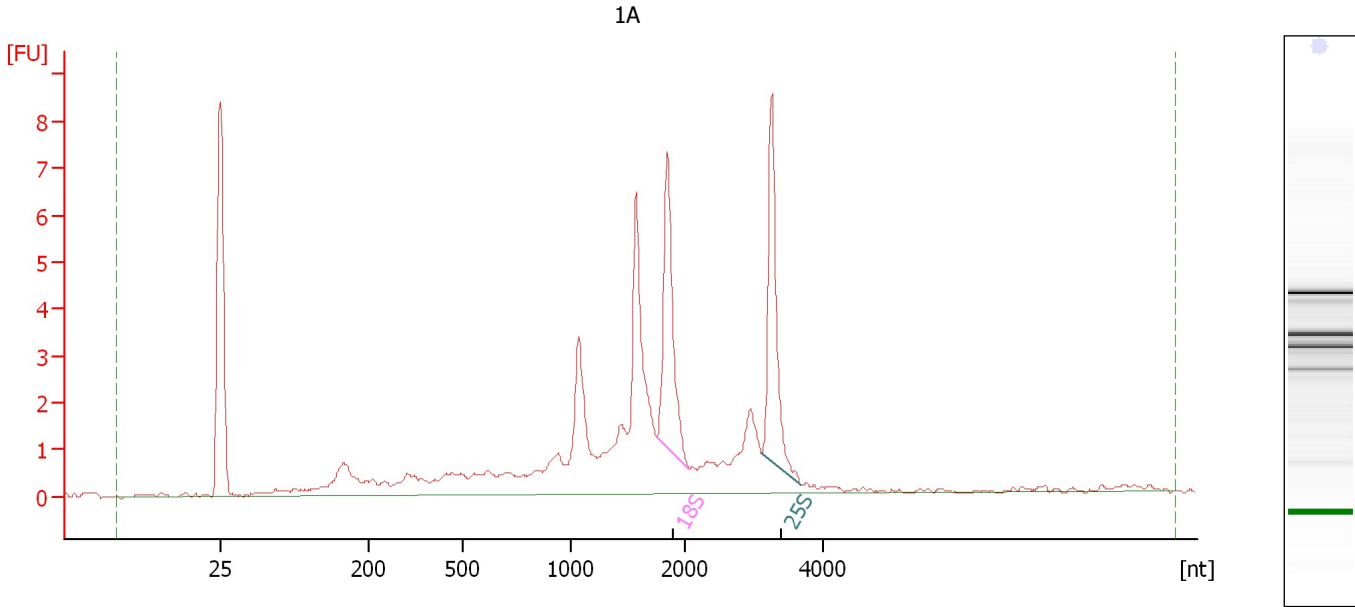
**Overall Results for Ladder**

RNA Area:	229.8	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\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
Modified: 2/10/2015 4:16:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1A**

RNA Area: 57.9                      RNA Integrity Number (RIN): 6.8 (B.02.08)  
RNA Concentration: 38 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.9              Result Flagging Label: RIN: 6.80

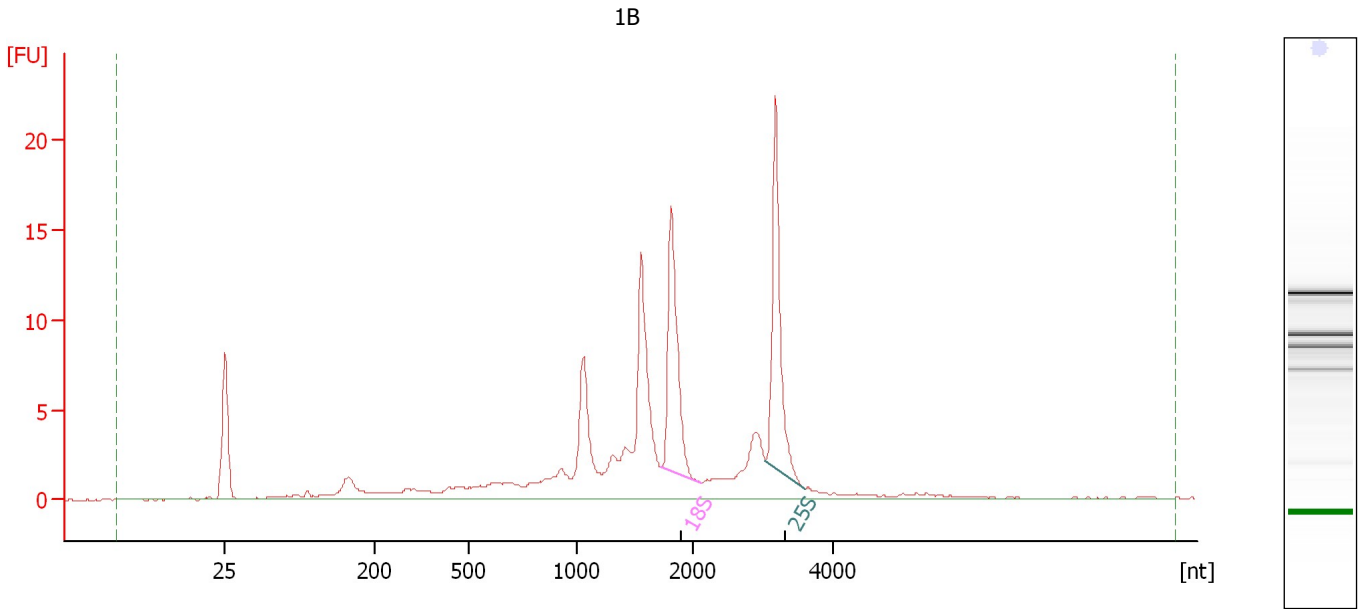
**Fragment table for sample 1 : 1A**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,762	2,070	7.0	12.1
25S	3,106	3,678	6.5	11.2

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
Modified: 2/10/2015 4:16:11 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 118.1                      RNA Integrity Number (RIN): 6.9 (B.02.08)  
RNA Concentration: 77 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.0              Result Flagging Label: RIN: 6.90

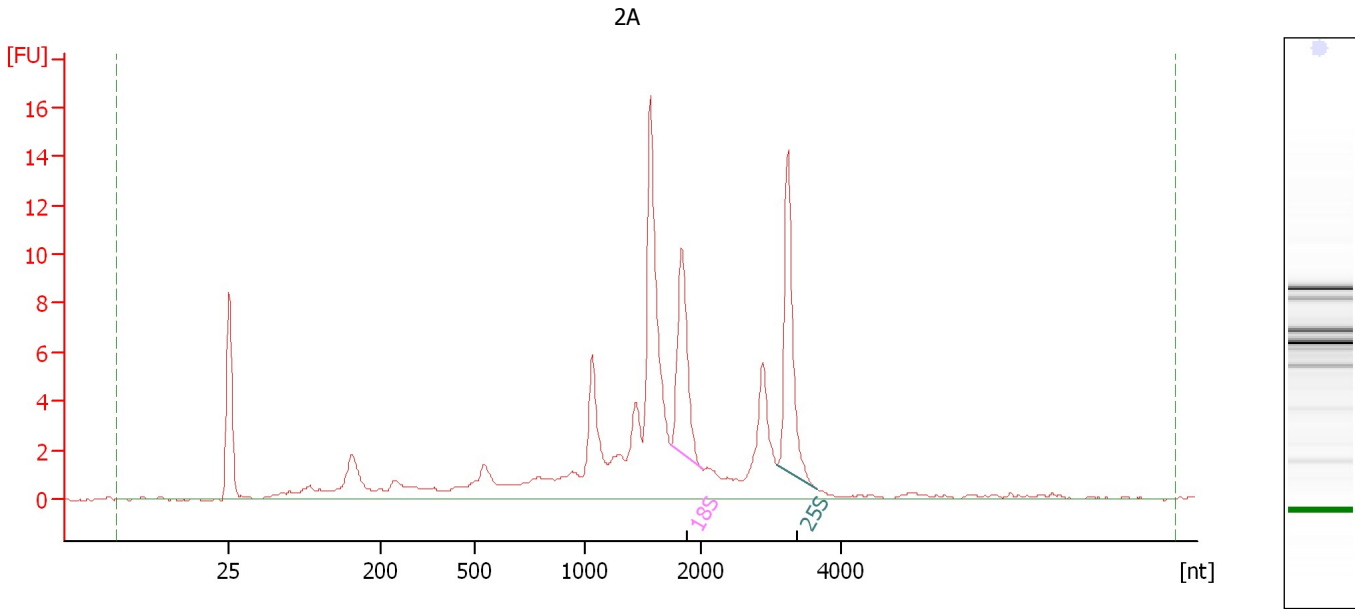
**Fragment table for sample 2 : 1B**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,721	2,106	16.2	13.7
25S	3,042	3,594	17.0	14.4

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
Modified: 2/10/2015 4:16:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 2A**

RNA Area: 109.0                      RNA Integrity Number (RIN): 6.5 (B.02.08)  
RNA Concentration: 71 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.1                      Result Flagging Label: RIN: 6.50

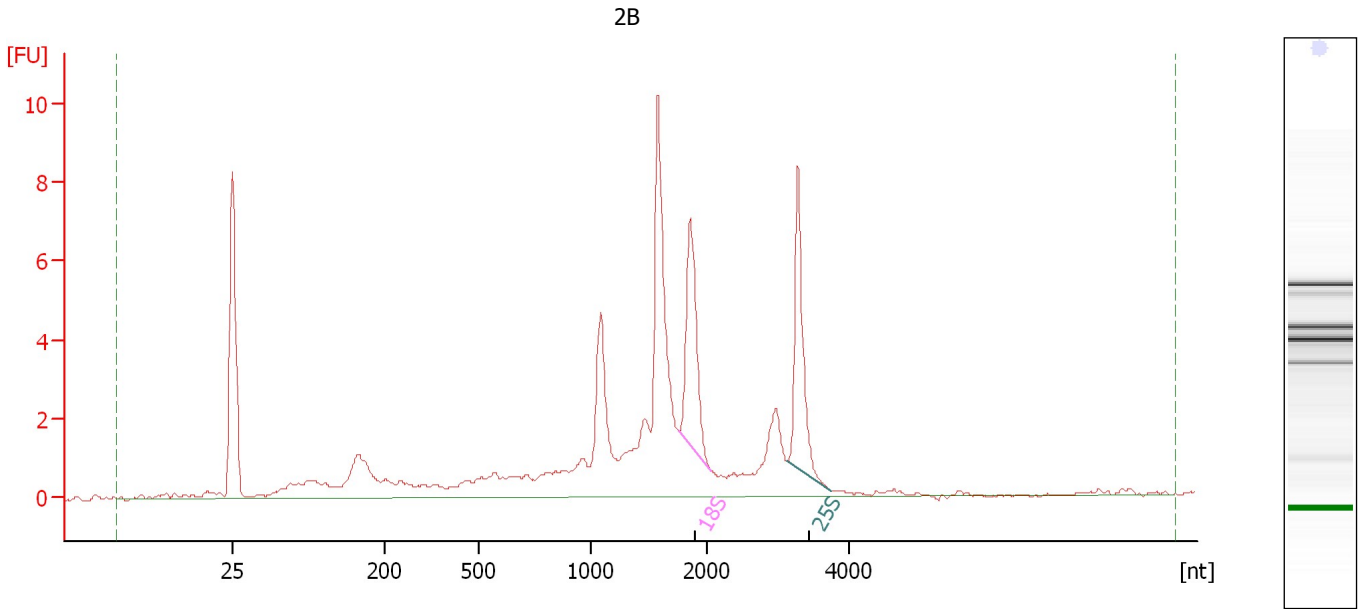
**Fragment table for sample 3 : 2A**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,746	2,021	9.8	9.0
25S	3,071	3,649	11.0	10.1

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
Modified: 2/10/2015 4:16:11 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	72.5	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	47 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: 6.50

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

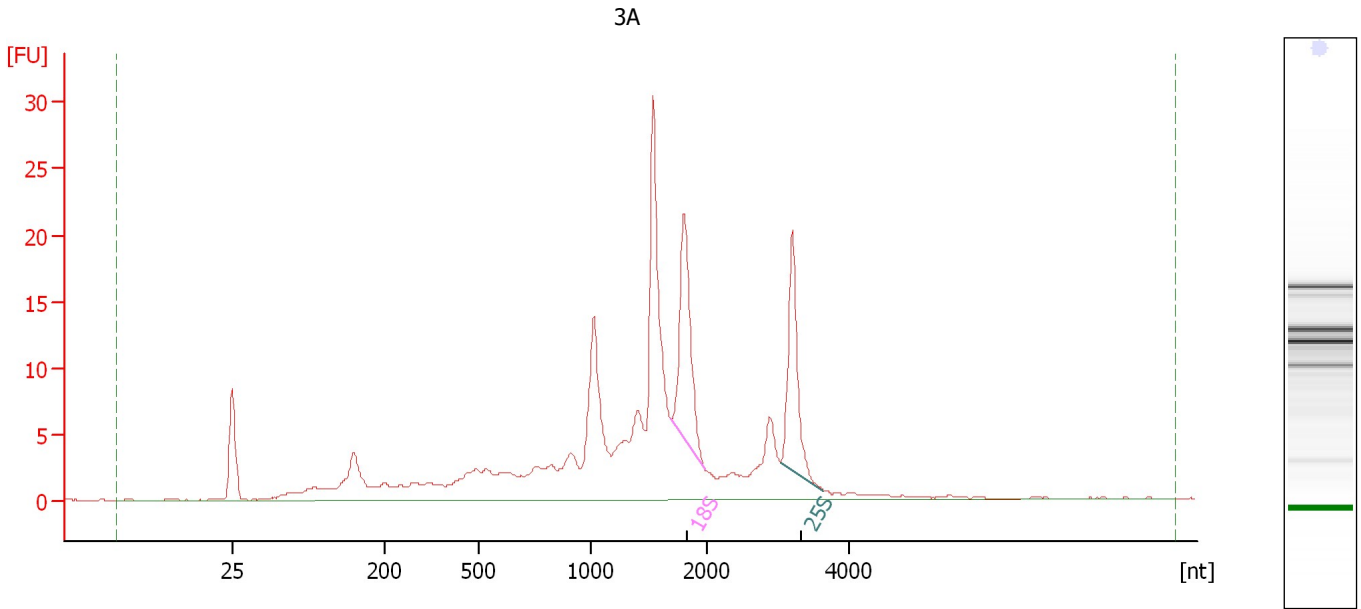
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,760	2,041	6.7	9.3
25S	3,130	3,750	6.4	8.8



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
Modified: 2/10/2015 4:16:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 3A**

RNA Area: 228.1                      RNA Integrity Number (RIN): 6.1 (B.02.08)  
RNA Concentration: 149 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.8              Result Flagging Label: RIN: 6.10

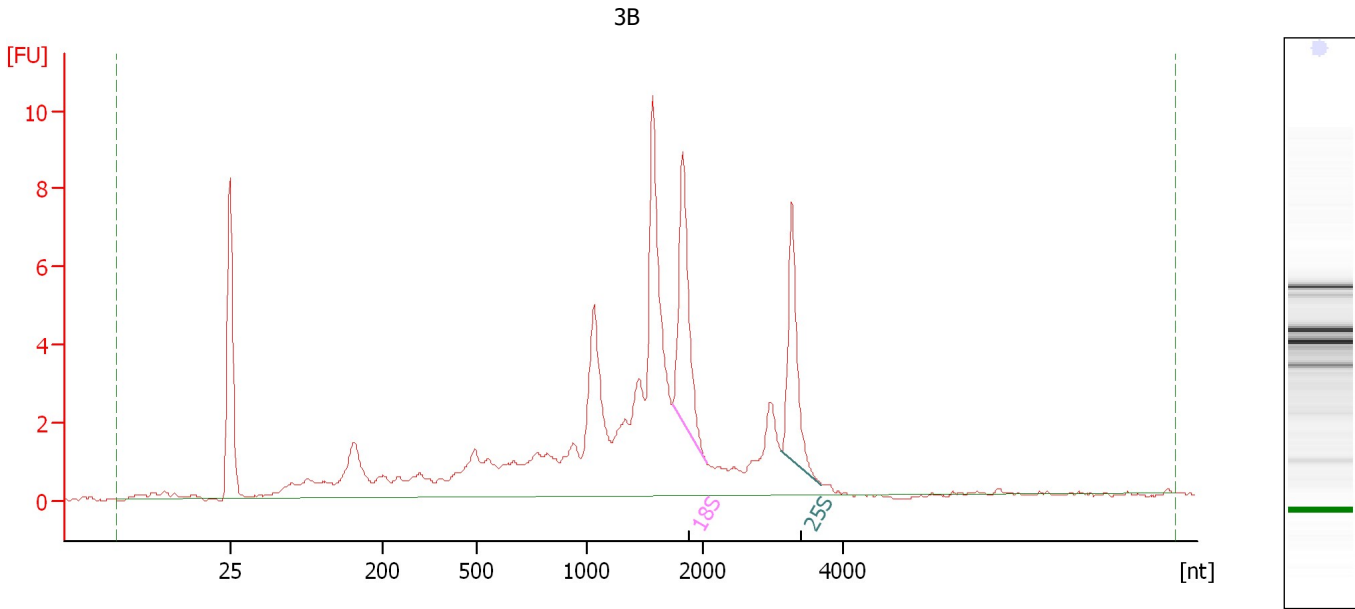
**Fragment table for sample 5 : 3A**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	1,979	21.6	9.5
25S	3,039	3,644	17.3	7.6

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
Modified: 2/10/2015 4:16:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 3B**

RNA Area: 92.1                      RNA Integrity Number (RIN): 6 (B.02.08)  
RNA Concentration: 60 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.8              Result Flagging Label: RIN:6

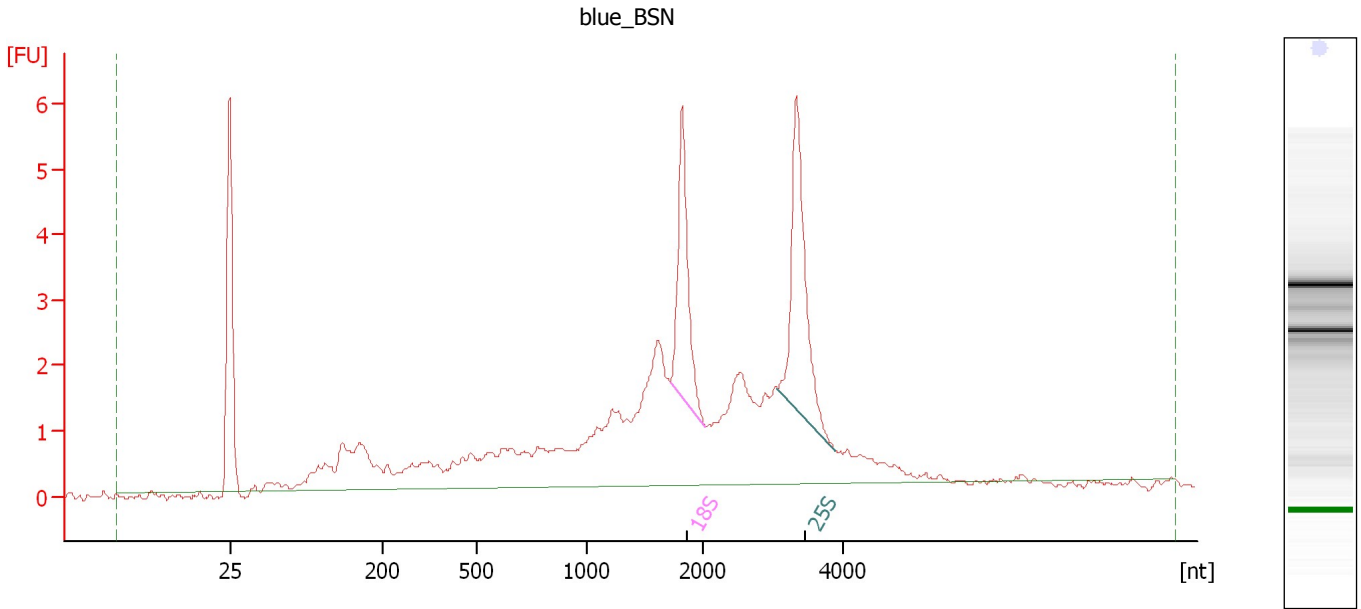
**Fragment table for sample 6 : 3B**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,738	2,053	8.1	8.8
25S	3,116	3,677	6.2	6.7

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
Modified: 2/10/2015 4:16:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : blue\_BSN**

RNA Area:	62.3	RNA Integrity Number (RIN):	6.6 (B.02.08)
RNA Concentration:	41 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: 6.60

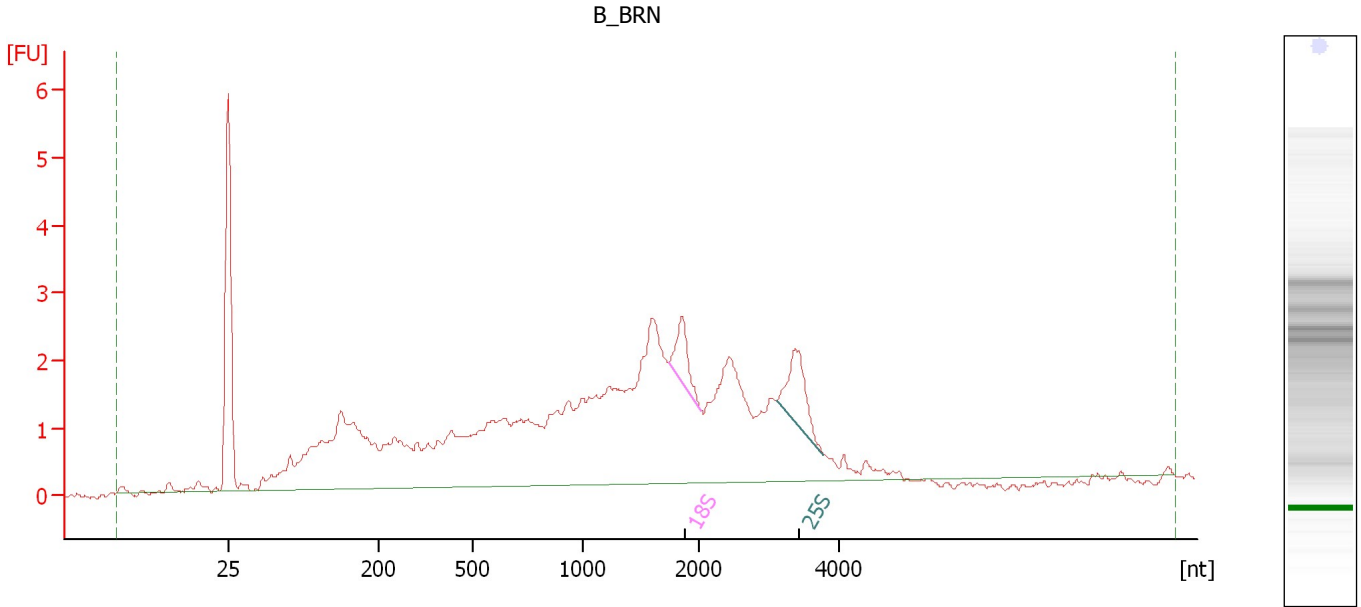
**Fragment table for sample 7 : blue\_BSN**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,720	2,038	5.1	8.2
25S	3,055	3,875	6.9	11.1

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
Modified: 2/10/2015 4:16:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : B\_BRN**

RNA Area: 71.1                      RNA Integrity Number (RIN): 3.6 (B.02.08)  
RNA Concentration: 46 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.6              Result Flagging Label: RIN: 3.60

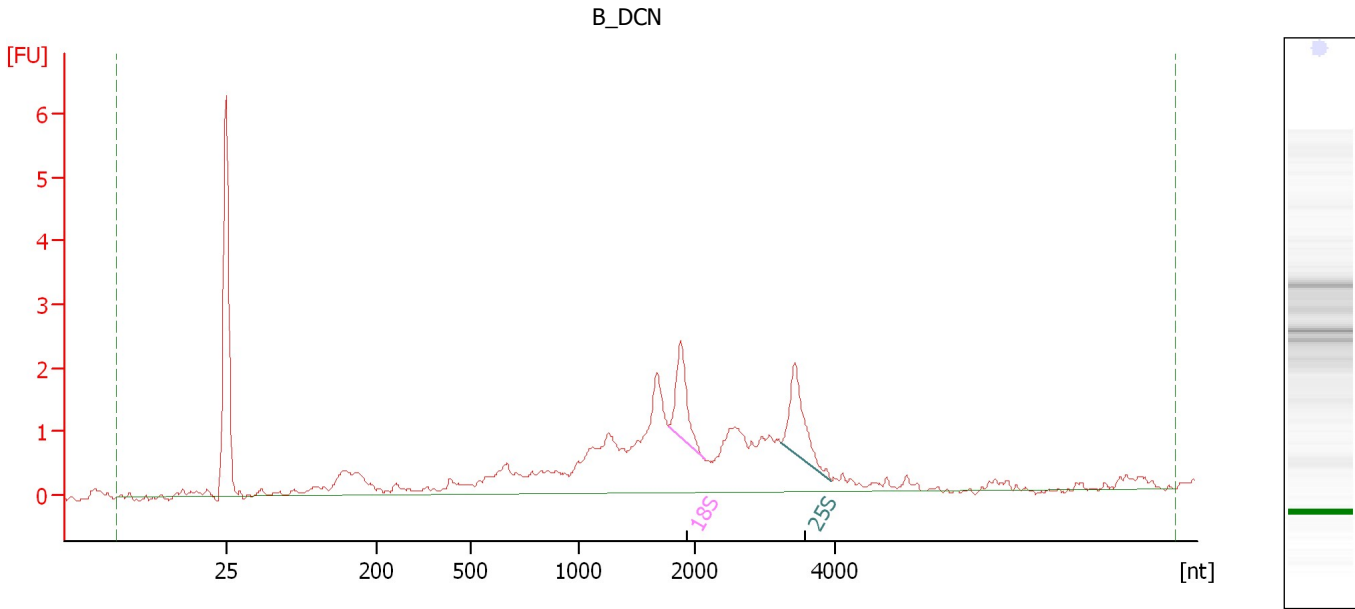
**Fragment table for sample 8 : B\_BRN**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,744	2,019	1.3	1.9
25S	3,102	3,772	2.1	2.9

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
Modified: 2/10/2015 4:16:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : B\_DCN**

RNA Area: 35.4                      RNA Integrity Number (RIN): 5.8 (B.02.08)  
RNA Concentration: 23 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.1              Result Flagging Label: RIN: 5.80

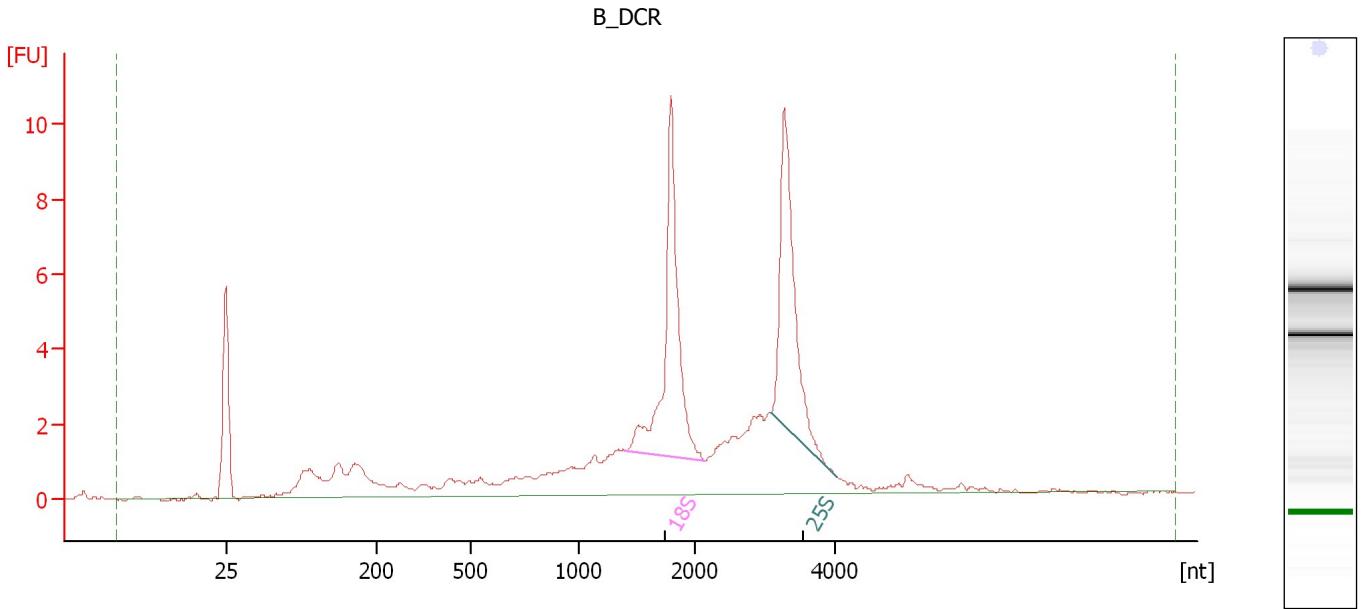
**Fragment table for sample 9 : B\_DCN**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,769	2,138	1.9	5.4
25S	3,241	3,960	2.1	6.0

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
Modified: 2/10/2015 4:16:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : B\_DCR**

RNA Area: 82.7                      RNA Integrity Number (RIN): 8 (B.02.08)  
RNA Concentration: 54 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.8              Result Flagging Label: RIN:8

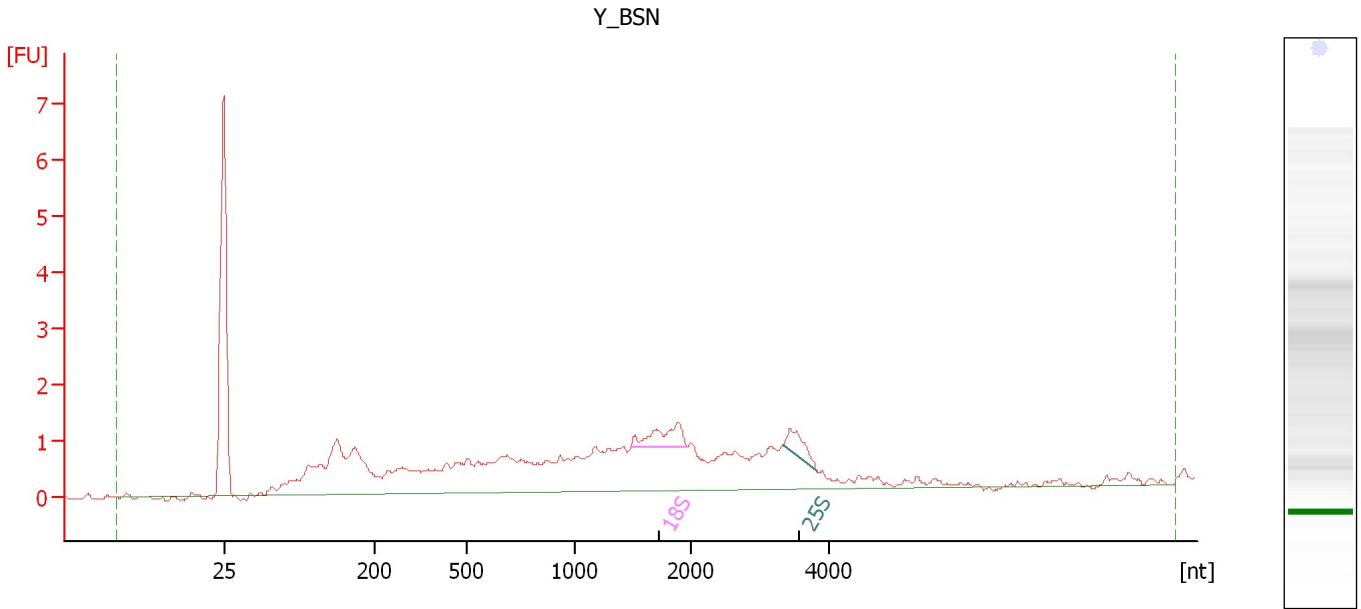
**Fragment table for sample 10 : B\_DCR**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,399	2,138	14.9	18.1
25S	3,088	4,021	12.5	15.2

Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
 Modified: 2/10/2015 4:16:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Y\_BSN**

RNA Area:	41.7	RNA Integrity Number (RIN):	3.1 (B.02.08)
RNA Concentration:	27 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: 3.10

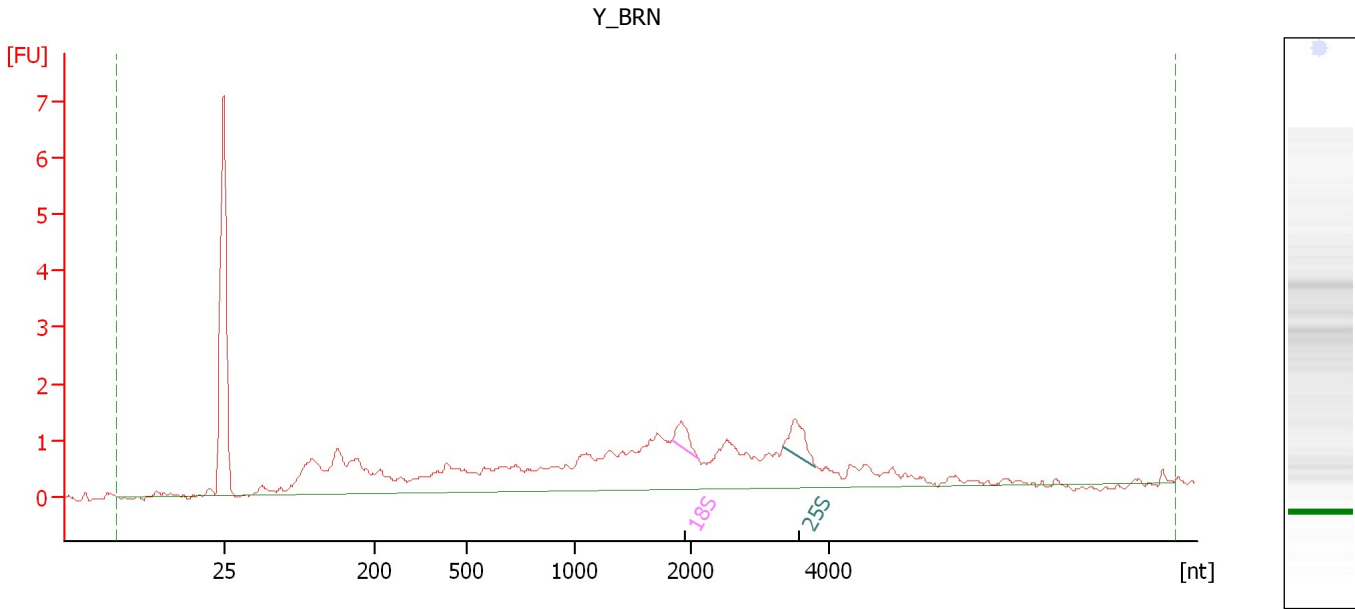
**Fragment table for sample 11 : Y\_BSN**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,479	1,961	1.2	2.9
25S	3,319	3,811	0.8	1.9

Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
 Modified: 2/10/2015 4:16:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : Y\_BRN**

RNA Area:	37.1	RNA Integrity Number (RIN):	3.3 (B.02.08)
RNA Concentration:	24 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]:	1.5	Result Flagging Label:	RIN: 3.30

**Fragment table for sample 12 : Y\_BRN**

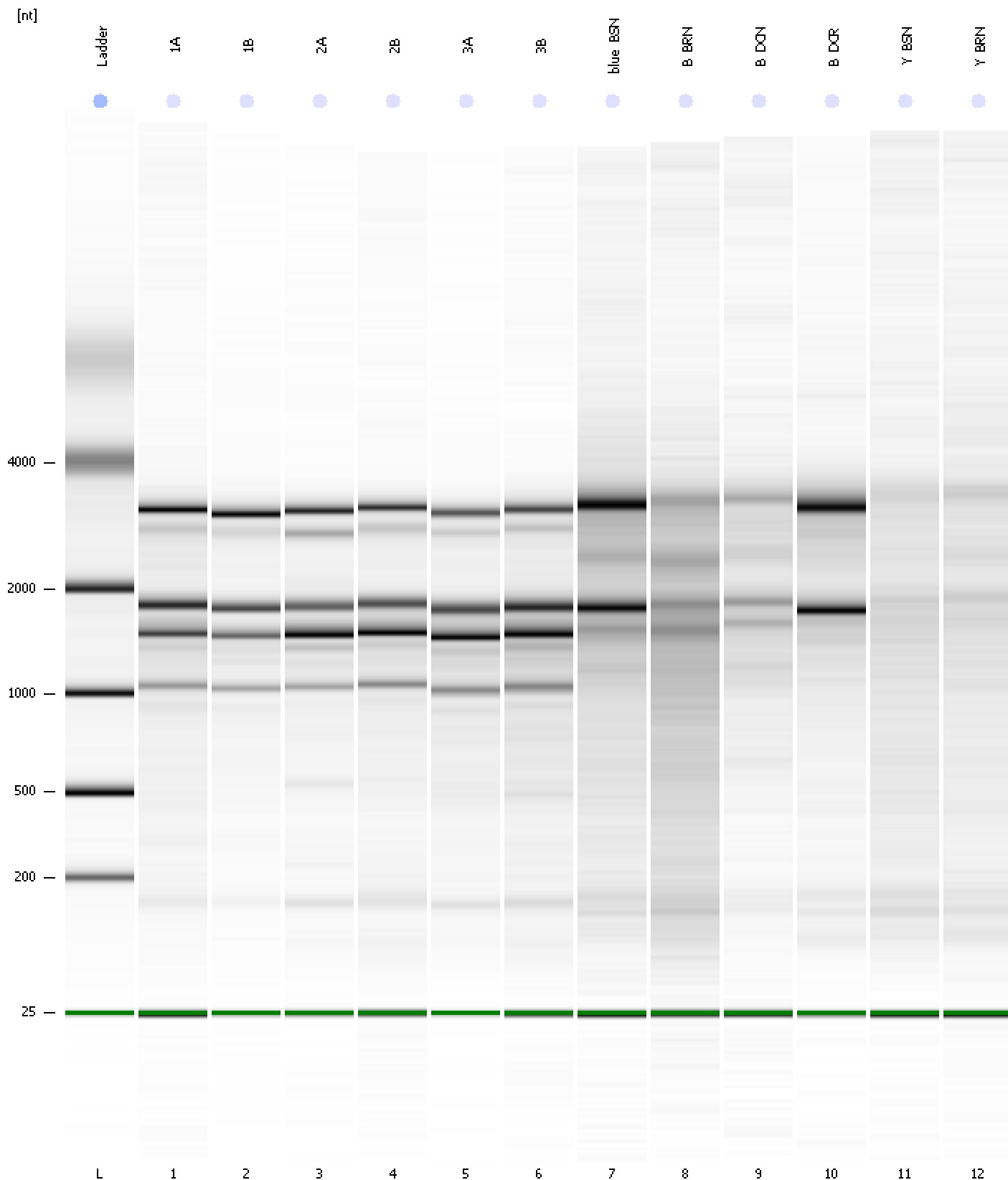
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,840	2,105	0.7	1.8
25S	3,319	3,796	1.0	2.8



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
Modified: 2/10/2015 4:16:11 PM

**Gel Image**



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10\_005.xad

Created: 2/10/2015 3:52:20 PM  
 Modified: 2/10/2015 4:16:11 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		2/10/2015 4:16:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-10\2015-02-10_005.xad)		Instrument	Run		2/10/2015 3:52:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/10/2015 3:52:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/10/2015 3:52:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/10/2015 3:52:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/10/2015 3:52:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/10/2015 3:52:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/10/2015 3:52:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1