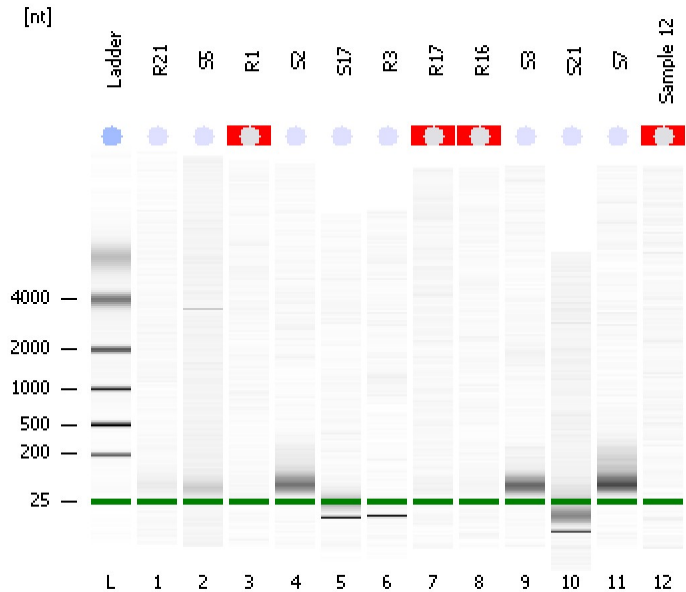


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 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)

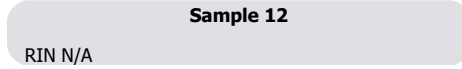
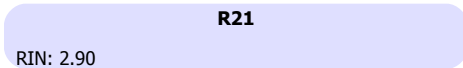
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
 Modified: 4/4/2014 12:12:21 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
R21		✓	RIN: 2.90	
S5		✓	RIN: 2.20	
R1		✓	RIN N/A	
S2		✓	RIN: 2.70	
S17		✓	RIN: 2.20	
R3		✓	RIN: 4.70	
R17		✓	RIN N/A	
R16		✓	RIN N/A	
S3		✓	RIN: 2.60	
S21		✓	RIN: 2.20	
S7		✓	RIN: 2.60	
Sample 12		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ μ l] : 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

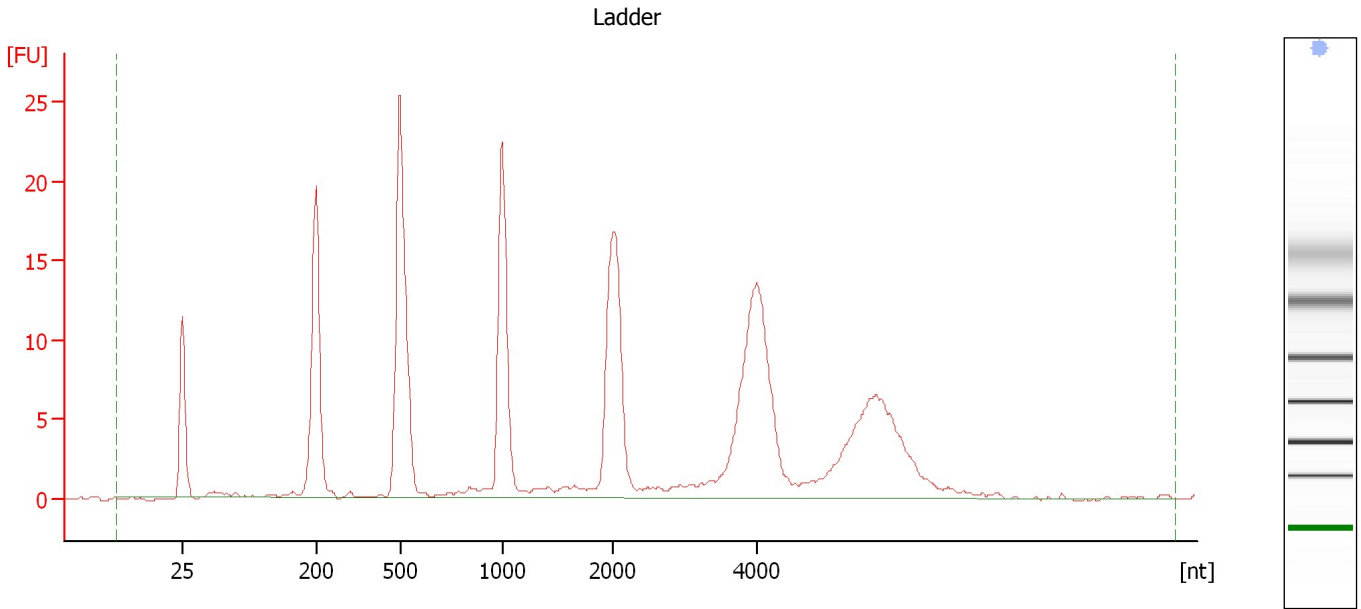
Ladder

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\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 PM

Electropherogram Summary



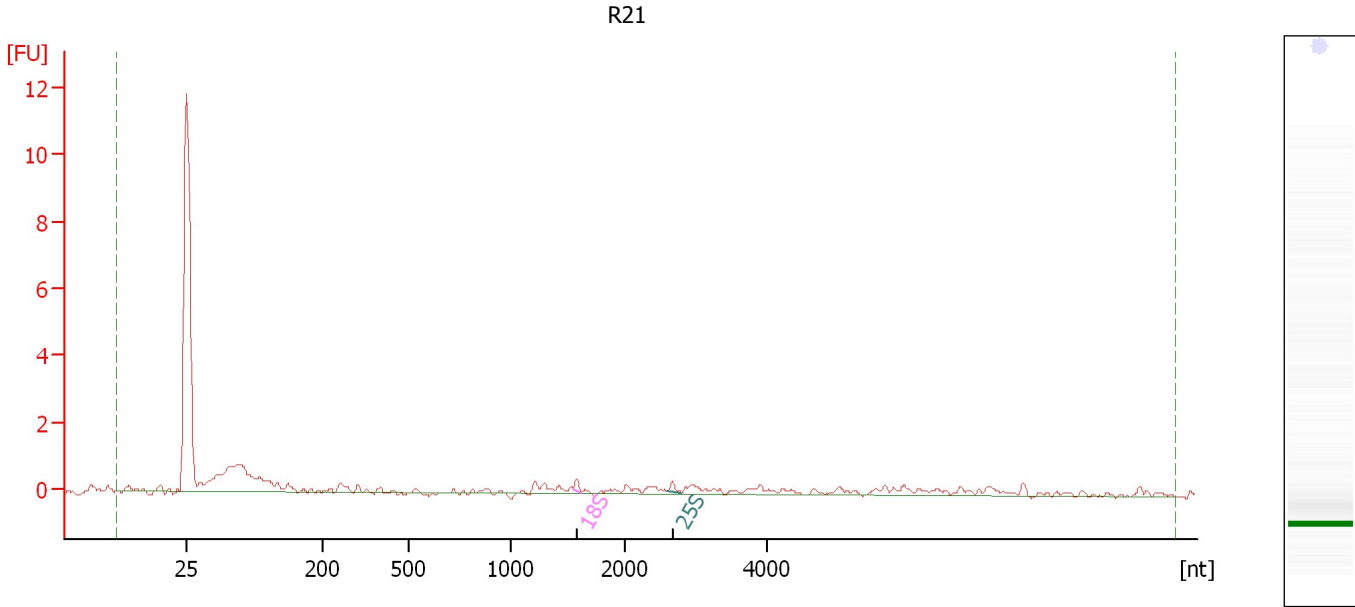
Overall Results for Ladder

RNA Area:	226.1	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : R21

RNA Area: 16.1 RNA Integrity Number (RIN): 2.9 (B.02.08)
RNA Concentration: 11 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.9 Result Flagging Label: RIN: 2.90

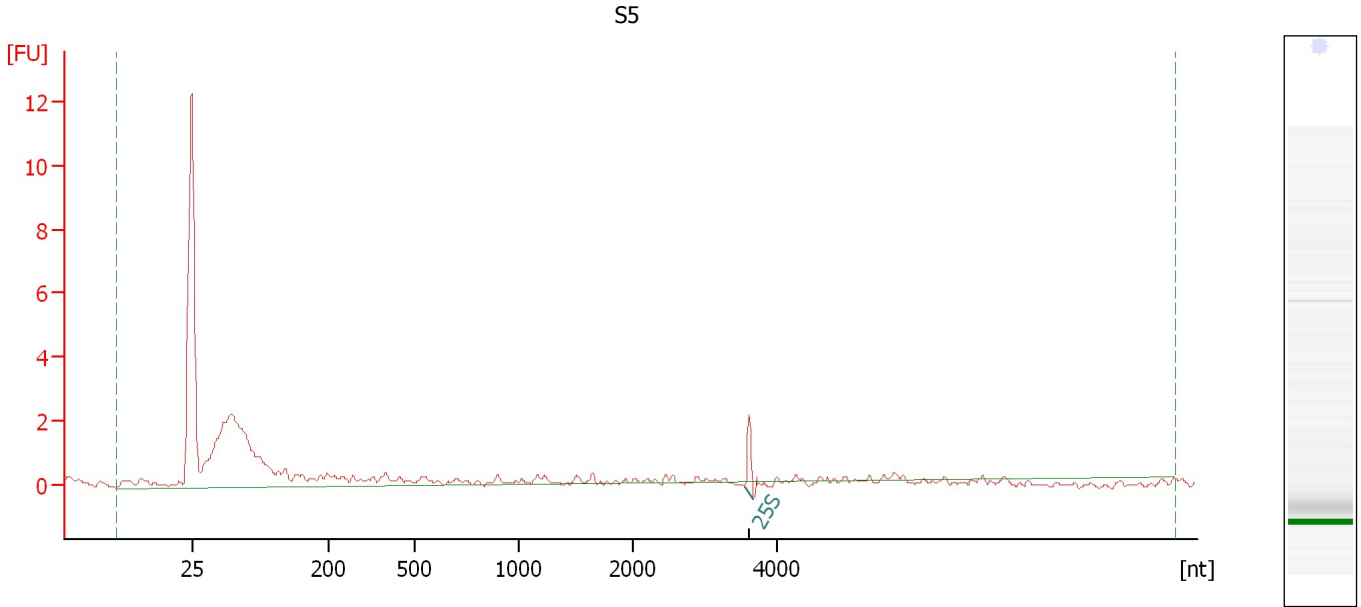
Fragment table for sample 1 : R21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,548	1,624	0.2	1.1
25S	2,602	2,796	0.2	1.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : S5

RNA Area:	30.5	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	20 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

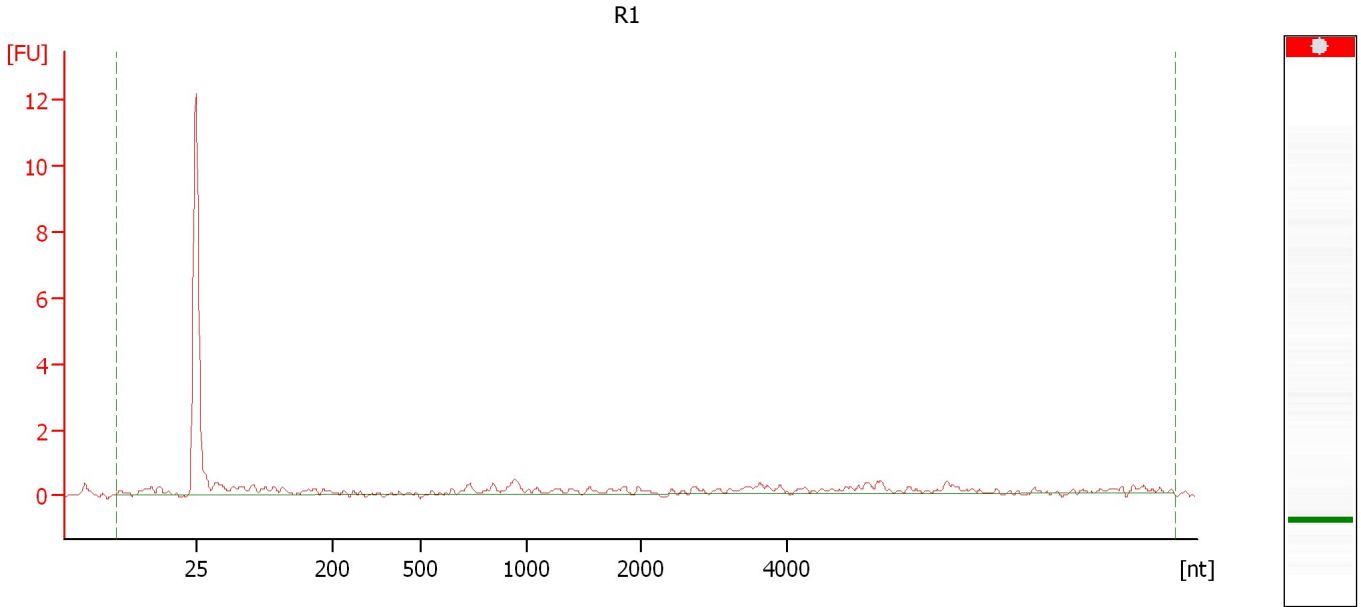
Fragment table for sample 2 : S5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	3,547	3,679	1.1	3.6

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 PM

Electropherogram Summary Continued ...



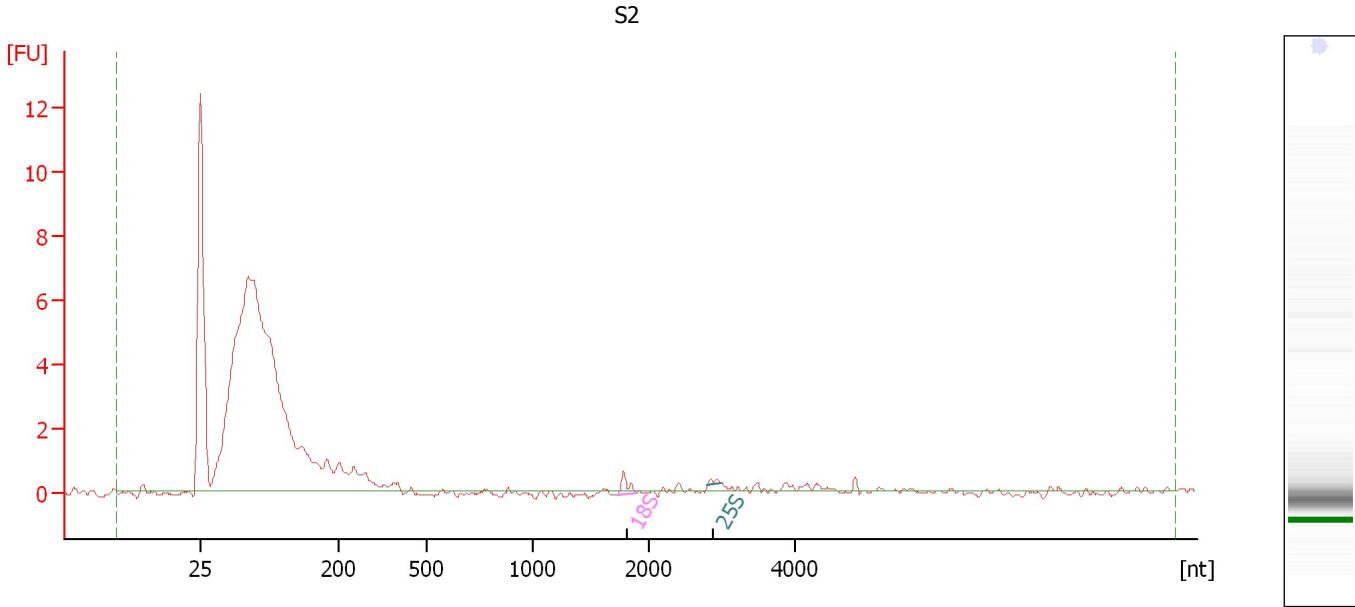
Overall Results for sample 3 : R1

RNA Area:	11.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	7 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : S2

RNA Area:	70.7	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	47 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.2	Result Flagging Label:	RIN: 2.70

Fragment table for sample 4 : S2

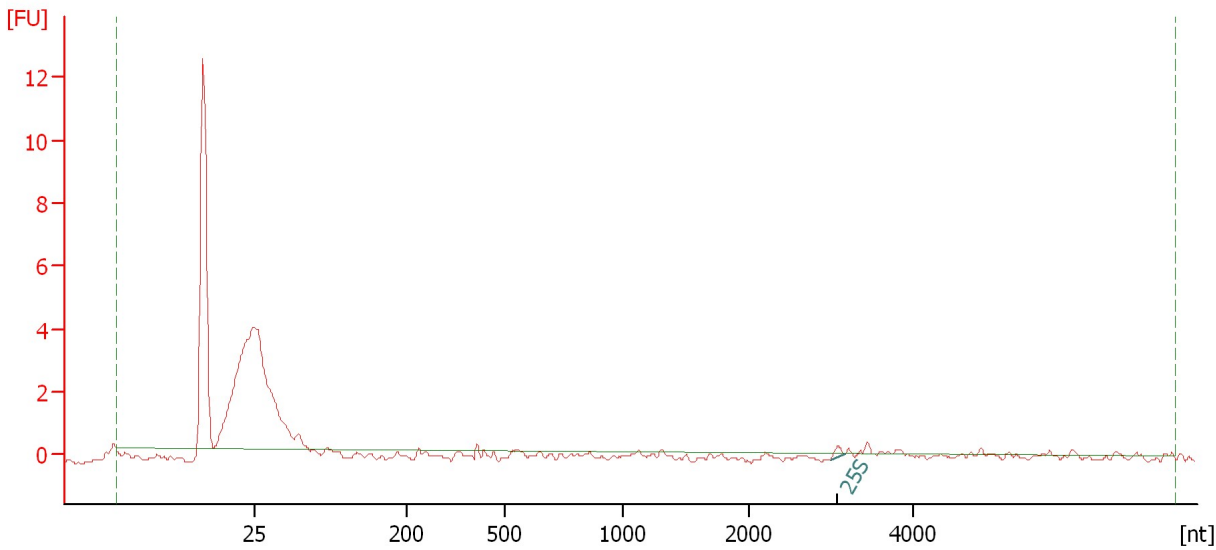
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,729	1,895	0.6	0.8
25S	2,808	2,996	0.1	0.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 PM

Electropherogram Summary Continued ...

S17



Overall Results for sample 5 : S17

RNA Area:	18.0	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	12 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

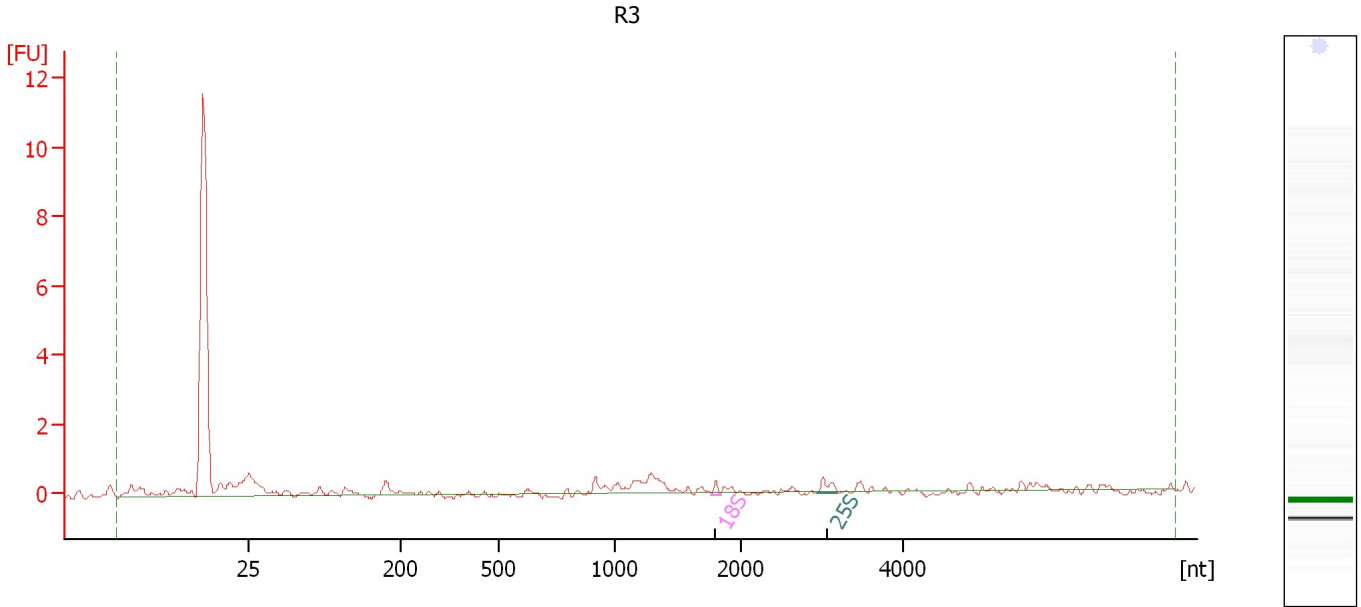
Fragment table for sample 5 : S17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,994	3,165	0.2	1.3

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : R3

RNA Area: 27.0 RNA Integrity Number (RIN): 4.7 (B.02.08)
RNA Concentration: 18 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.5 Result Flagging Label: RIN: 4.70

Fragment table for sample 6 : R3

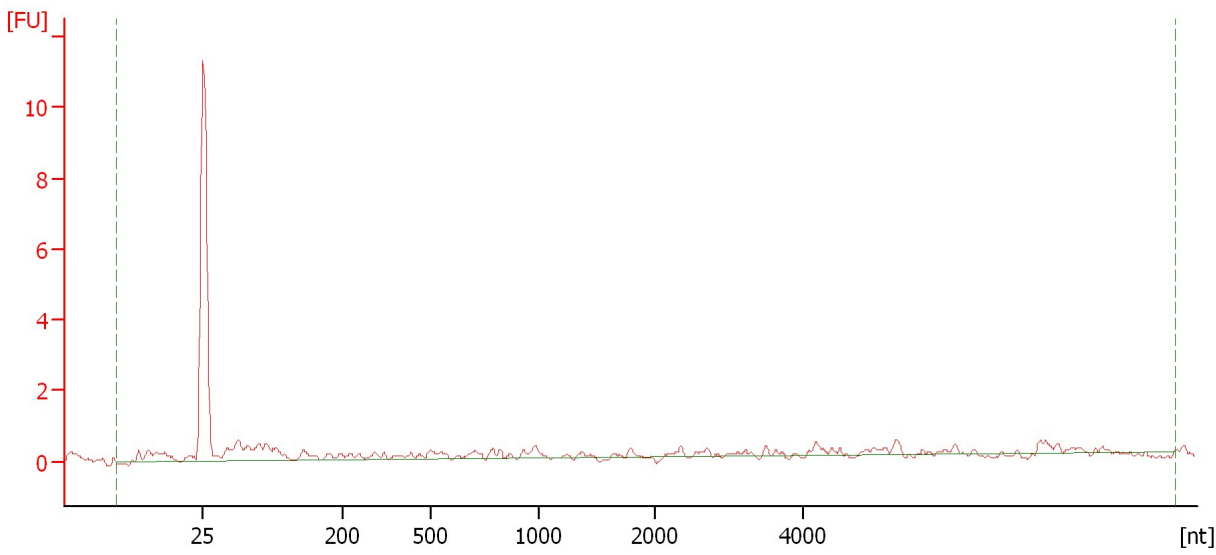
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,760	1,836	0.2	0.6
25S	2,931	3,181	0.4	1.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 PM

Electropherogram Summary Continued ...

R17



Overall Results for sample 7 : R17

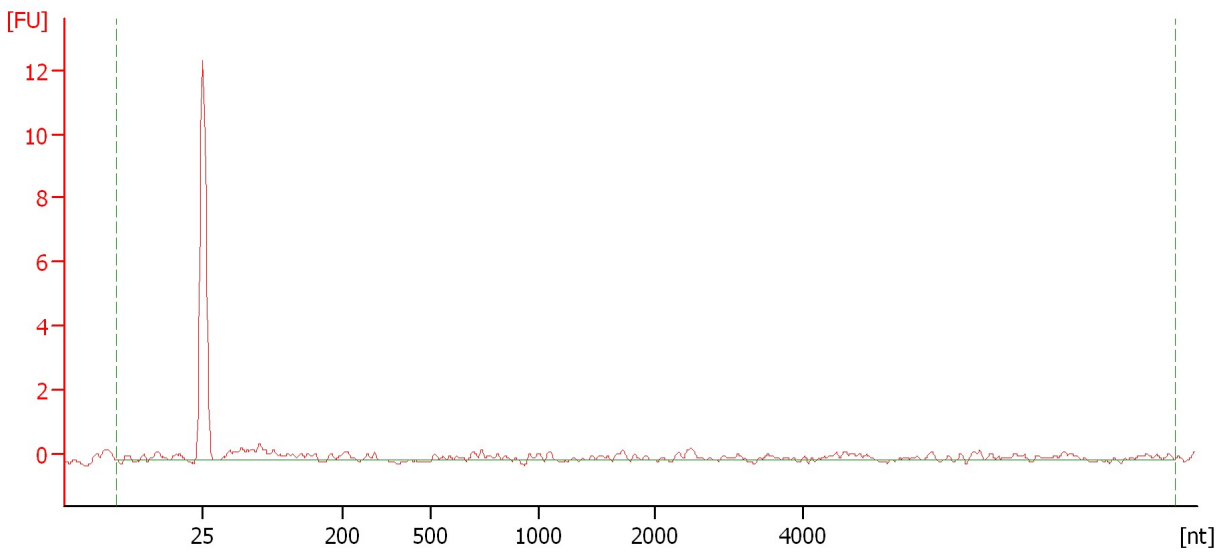
RNA Area:	12.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	9 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 PM

Electropherogram Summary Continued ...

R16



Overall Results for sample 8 : R16

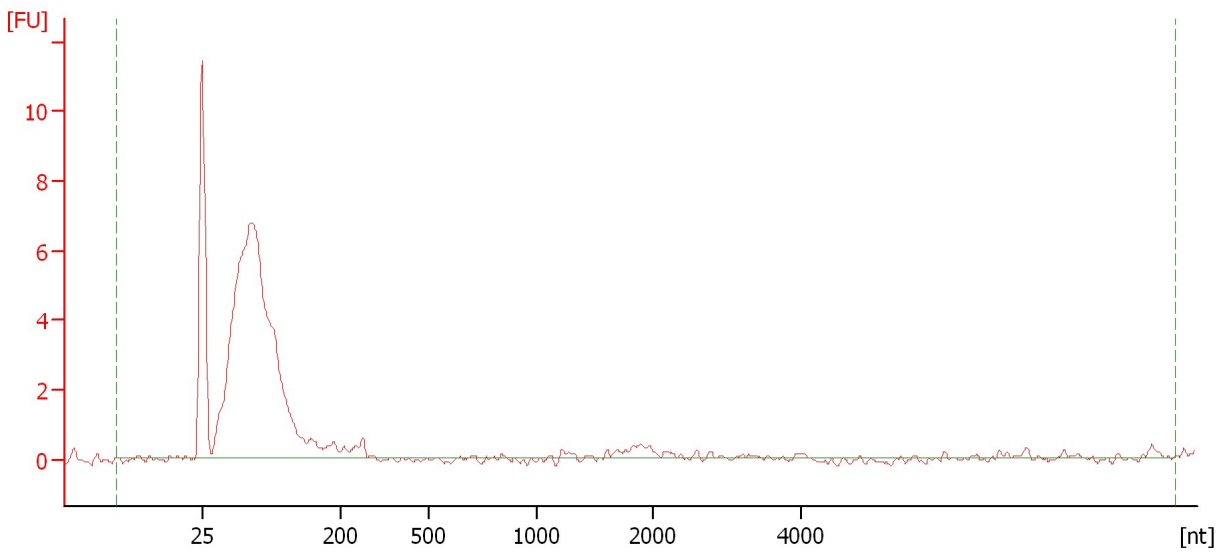
RNA Area:	9.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 PM

Electropherogram Summary Continued ...

S3



Overall Results for sample 9 : S3

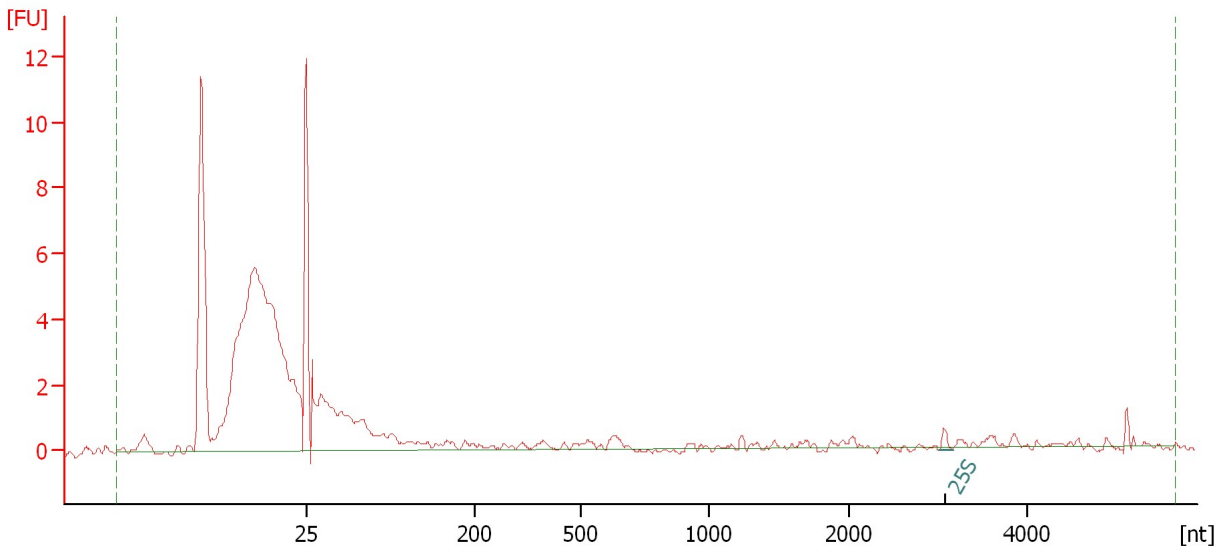
RNA Area:	61.0	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	40 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 PM

Electropherogram Summary Continued ...

S21



Overall Results for sample 10 : S21

RNA Area:	89.3	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	59 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

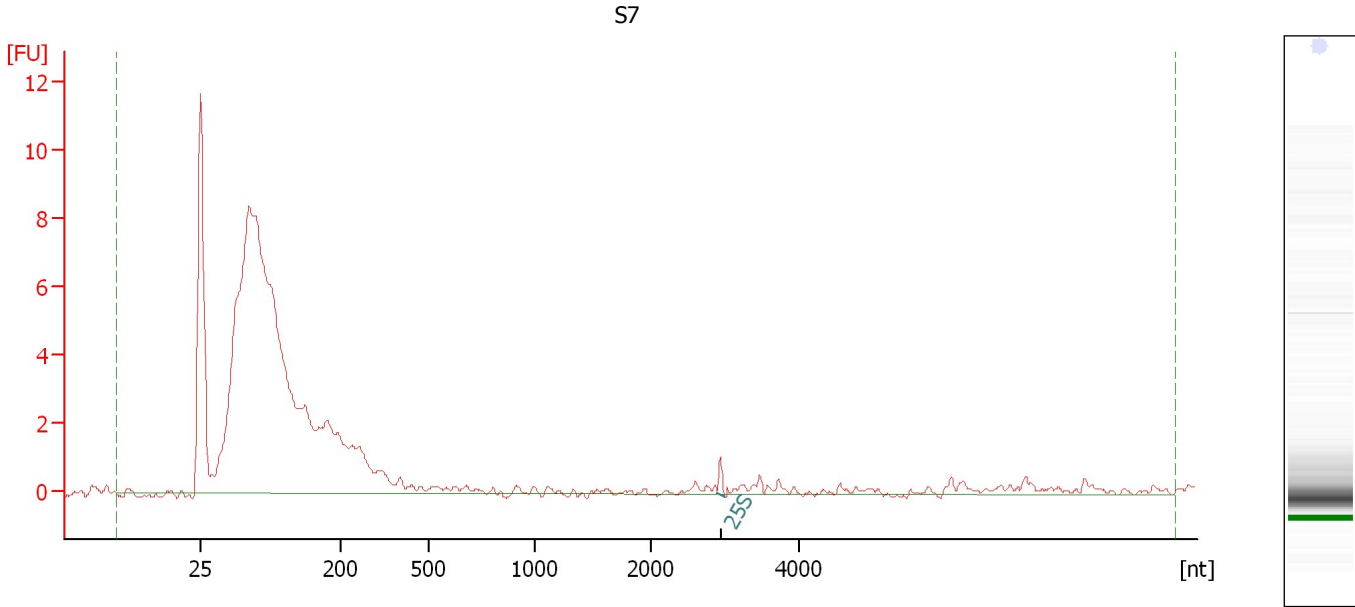
Fragment table for sample 10 : S21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	3,017	3,161	0.3	0.3

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : S7

RNA Area:	101.6	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	67 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Fragment table for sample 11 : S7

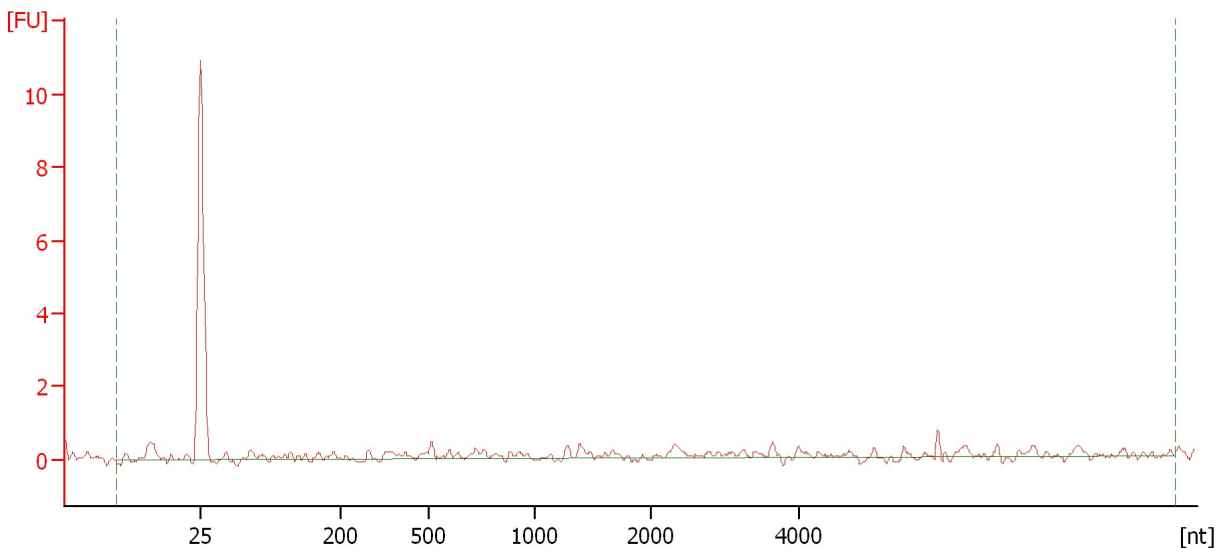
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,909	3,010	0.5	0.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 PM

Electropherogram Summary Continued ...

Sample 12



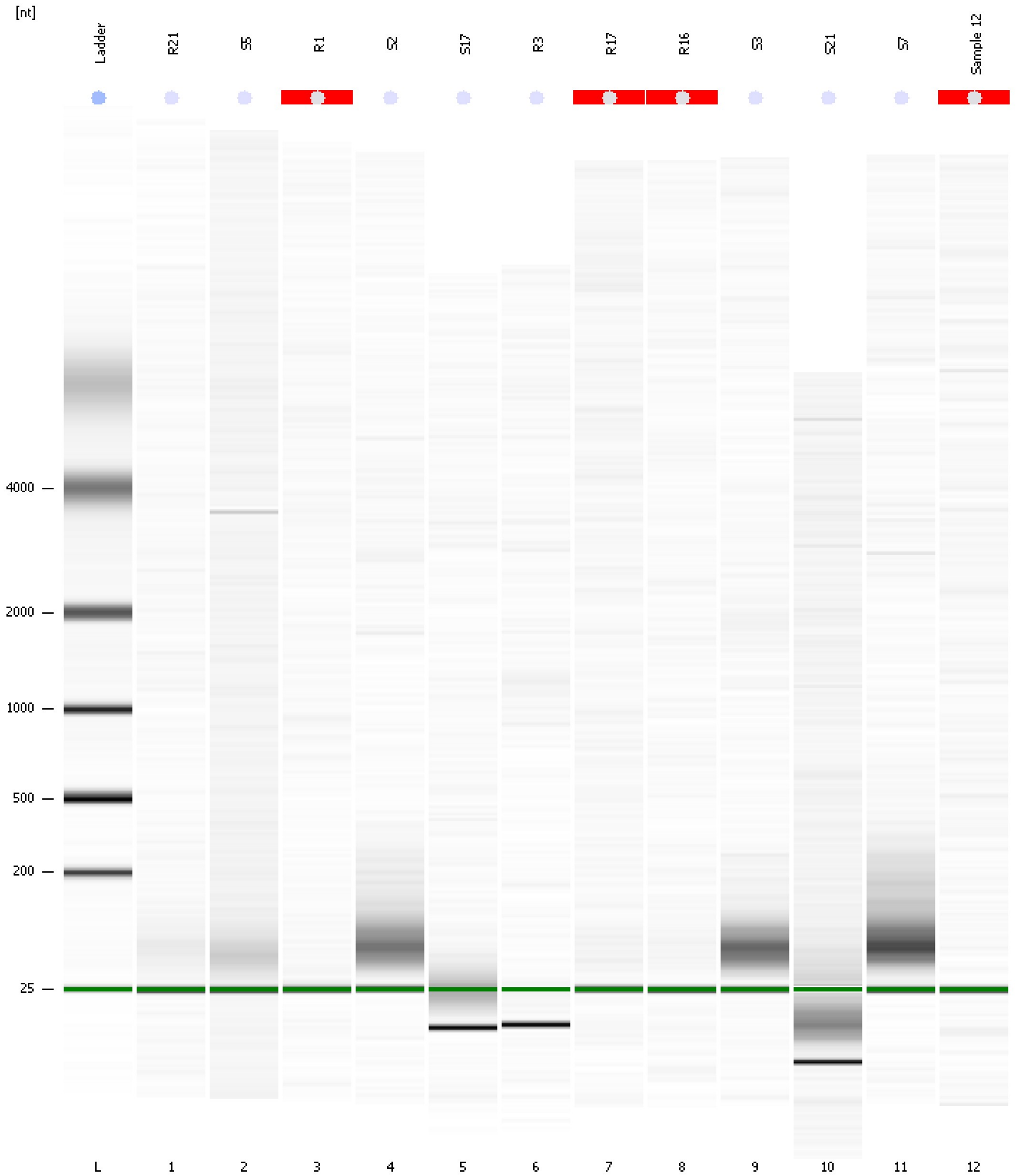
Overall Results for sample 12 : Sample 12

RNA Area:	11.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
Modified: 4/4/2014 12:12:21 PM

Gel Image



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad

Created: 4/4/2014 11:49:16 AM
 Modified: 4/4/2014 12:12:21 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		4/4/2014 12:12:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-04\2014-04-04_003.xad)		Instrument	Run		4/4/2014 11:49:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/4/2014 11:49:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/4/2014 11:49:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/4/2014 11:49:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/4/2014 11:49:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/4/2014 11:49:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/4/2014 11:49:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1