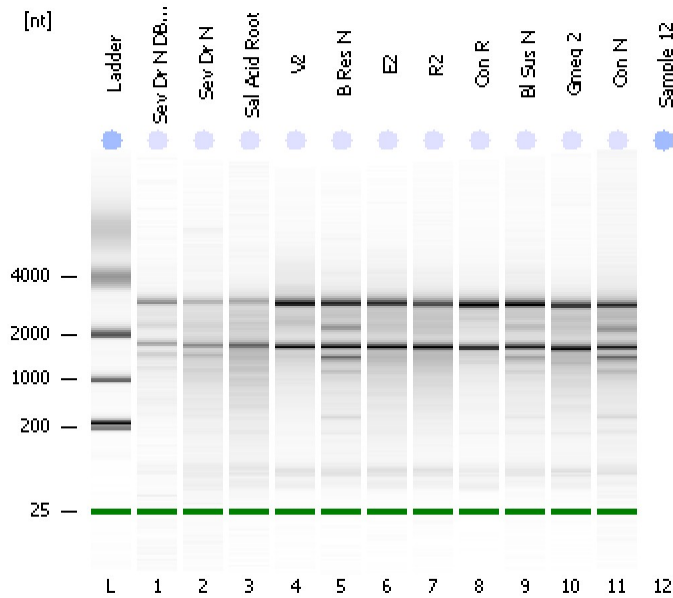


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
Modified: 7/24/2014 12:36:20 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)

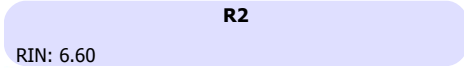
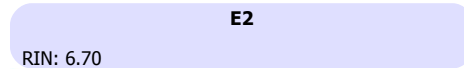
© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
 Modified: 7/24/2014 12:36:20 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sev Dr N DBDR		✓	RIN: 7.40	
Sev Dr N		✓	RIN: 5.70	
Sal Acid Root		✓	RIN: 5.60	
V2		✓	RIN: 7.40	
B Res N		✓	RIN: 6.70	
E2		✓	RIN: 6.70	
R2		✓	RIN: 6.60	
Con R		✓	RIN:8	
Bl Sus N		✓	RIN: 7.10	
Gmeg 2		✓	RIN: 6.70	
Con N		✓	RIN: 6.50	
Sample 12				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
Modified: 7/24/2014 12:36:20 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

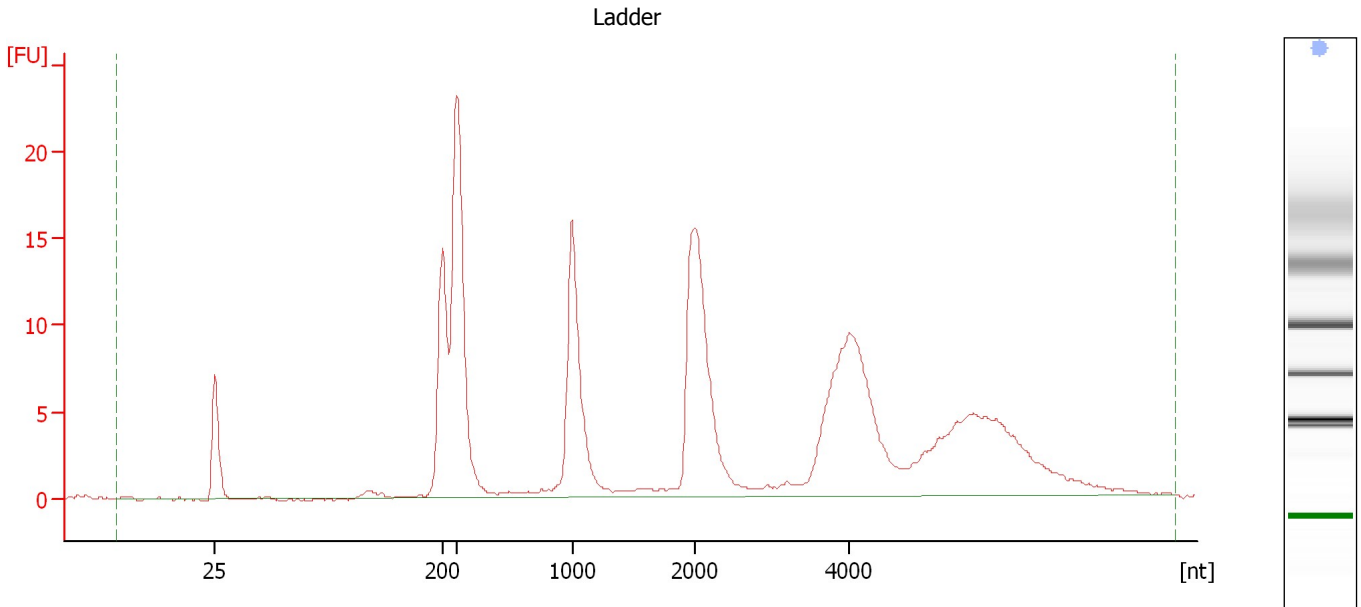
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
Modified: 7/24/2014 12:36:20 PM

Electropherogram Summary



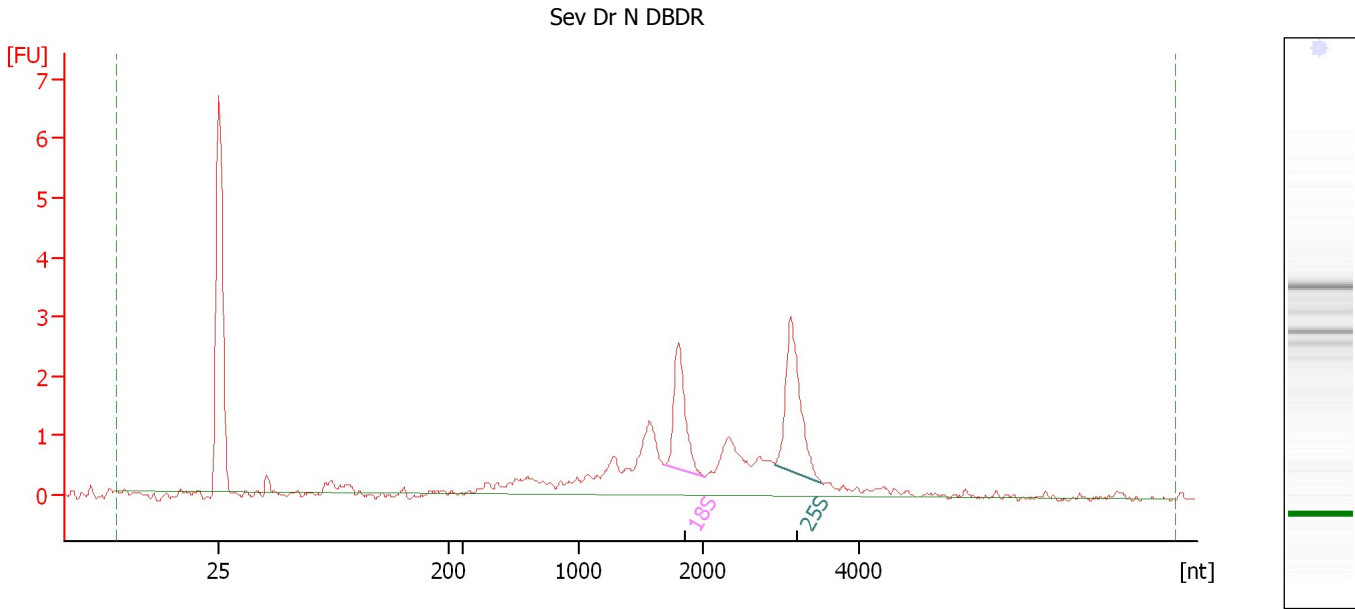
Overall Results for Ladder

RNA Area:	219.6	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
 Modified: 7/24/2014 12:36:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sev Dr N DBDR

RNA Area:	23.2	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	16 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 7.40

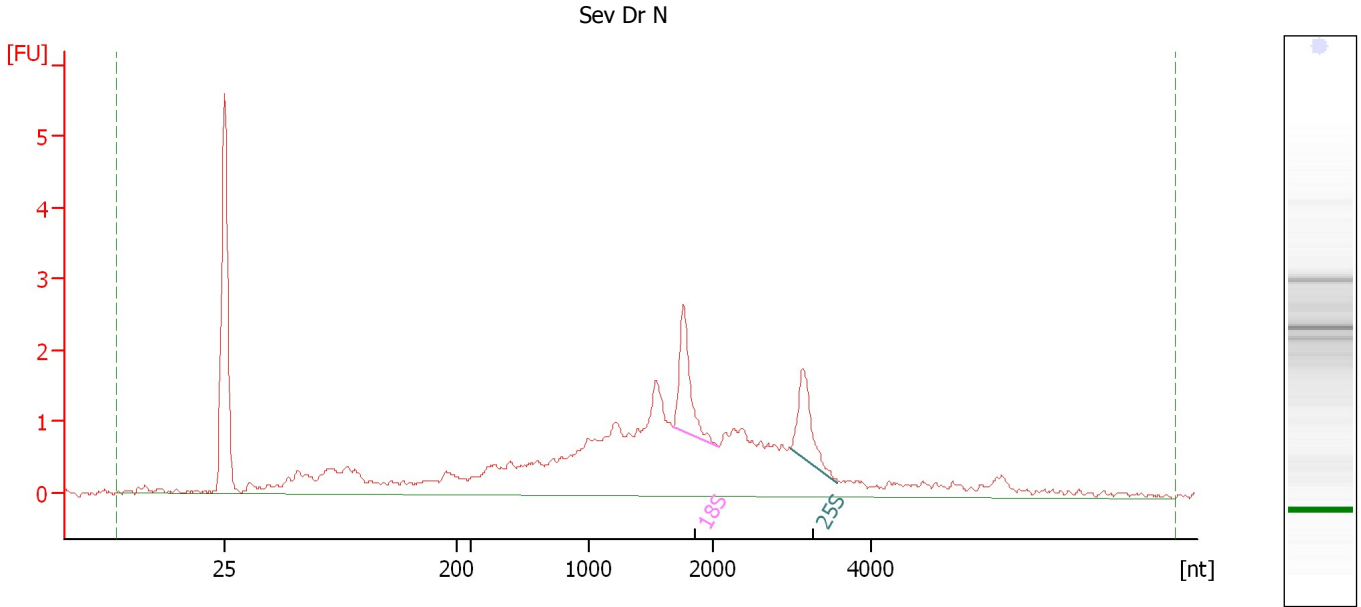
Fragment table for sample 1 : Sev Dr N DBDR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,689	2,044	2.8	11.9
25S	2,927	3,511	3.9	16.9

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
 Modified: 7/24/2014 12:36:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sev Dr N

RNA Area:	41.4	RNA Integrity Number (RIN):	5.7 (B.02.08)
RNA Concentration:	28 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.8	Result Flagging Label:	RIN: 5.70

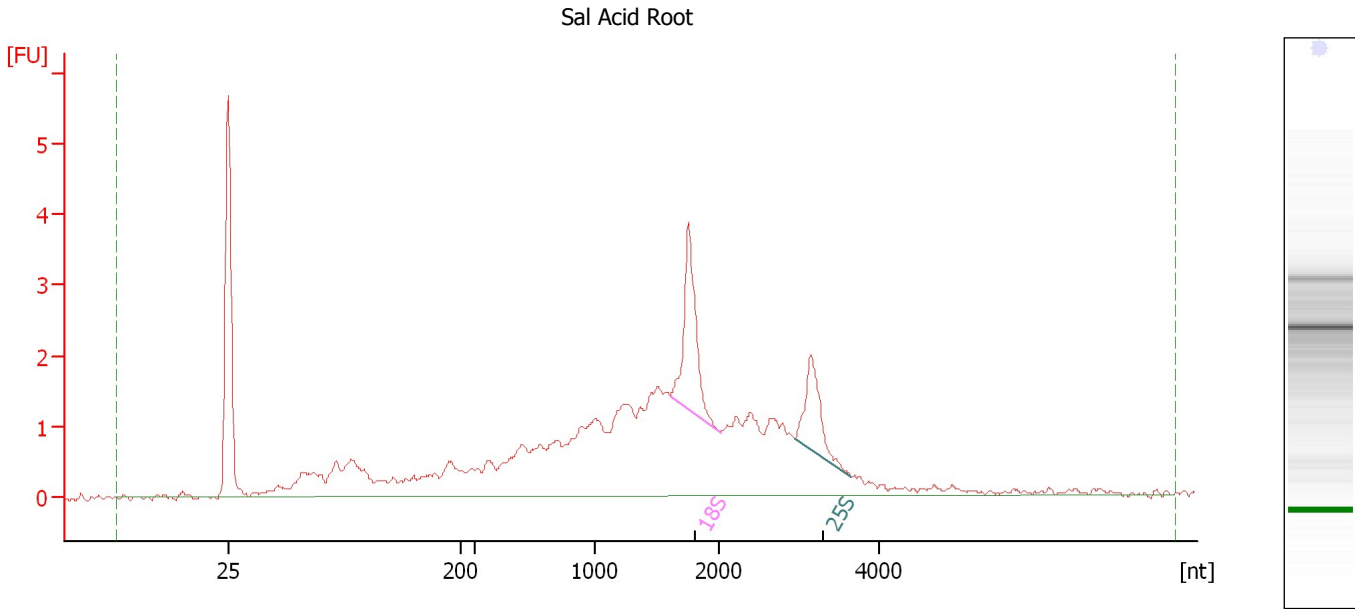
Fragment table for sample 2 : Sev Dr N

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,686	2,089	2.2	5.4
25S	2,976	3,568	1.7	4.1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
Modified: 7/24/2014 12:36:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sal Acid Root

RNA Area: 51.3 RNA Integrity Number (RIN): 5.6 (B.02.08)
RNA Concentration: 35 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.6 Result Flagging Label: RIN: 5.60

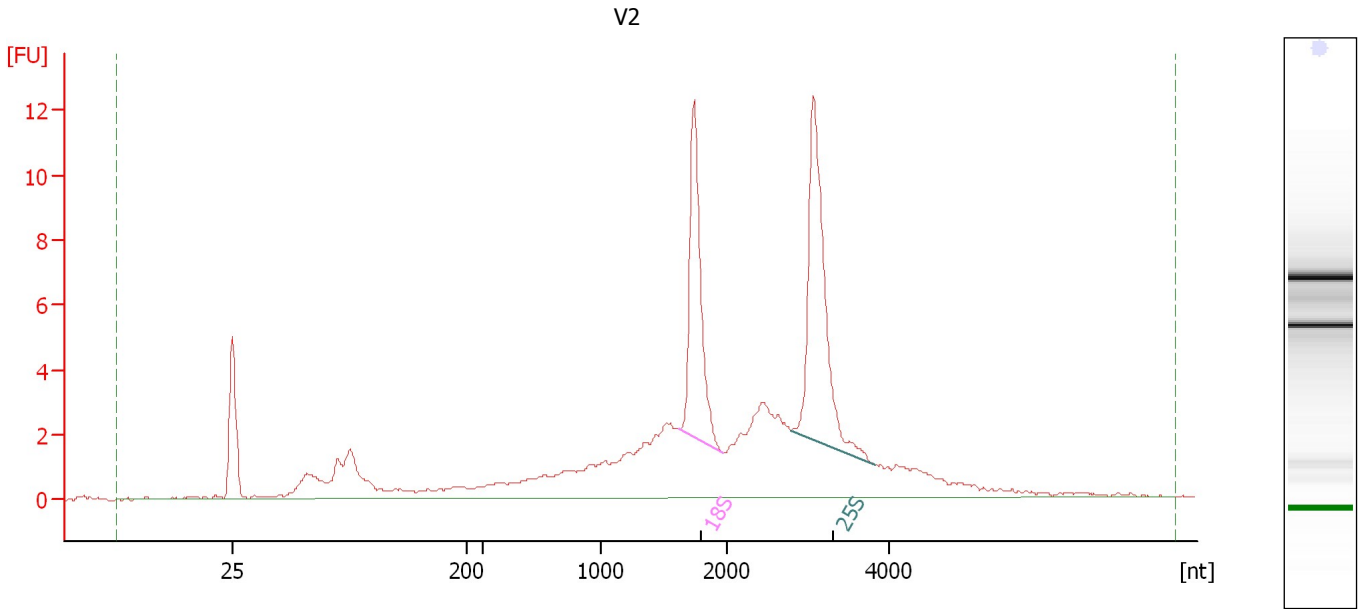
Fragment table for sample 3 : Sal Acid Root

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,613	2,024	3.6	7.0
25S	2,946	3,655	2.1	4.0

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
 Modified: 7/24/2014 12:36:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : V2

RNA Area:	108.7	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	74 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 7.40

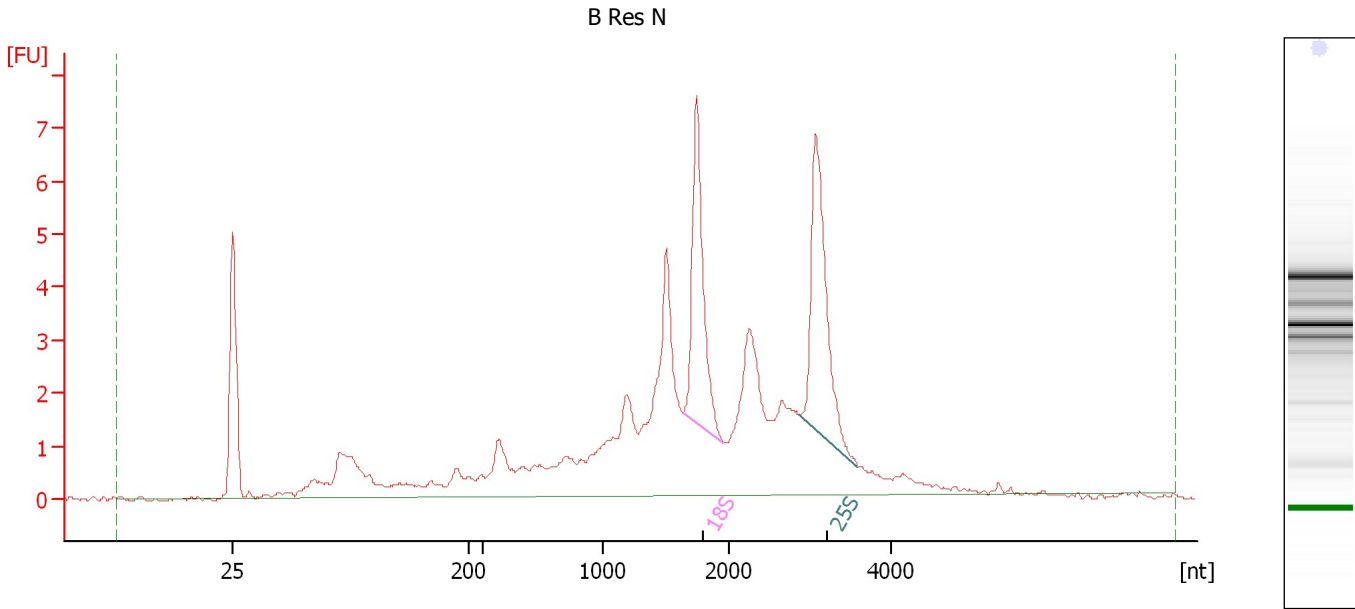
Fragment table for sample 4 : V2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	1,975	12.8	11.8
25S	2,797	3,831	17.6	16.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
Modified: 7/24/2014 12:36:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : B Res N

RNA Area: 75.7 RNA Integrity Number (RIN): 6.7 (B.02.08)
RNA Concentration: 52 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.1 Result Flagging Label: RIN: 6.70

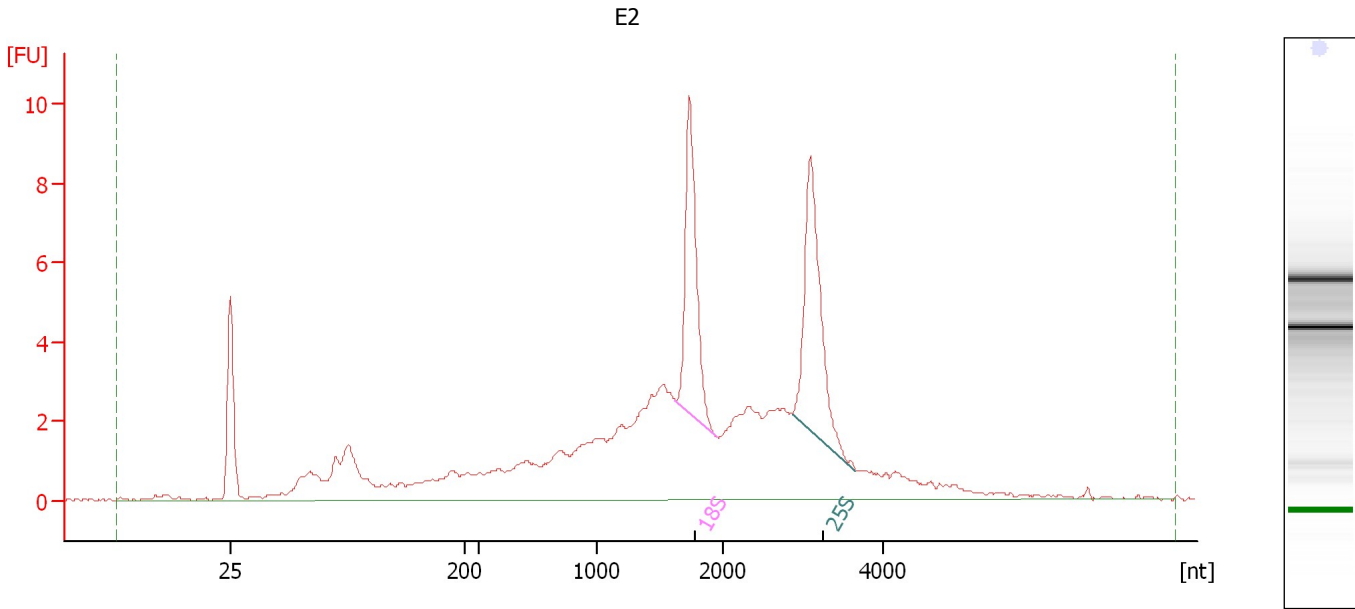
Fragment table for sample 5 : B Res N

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	1,959	7.5	10.0
25S	2,875	3,590	8.6	11.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
Modified: 7/24/2014 12:36:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : E2

RNA Area:	109.5	RNA Integrity Number (RIN):	6.7 (B.02.08)
RNA Concentration:	75 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.1	Result Flagging Label:	RIN: 6.70

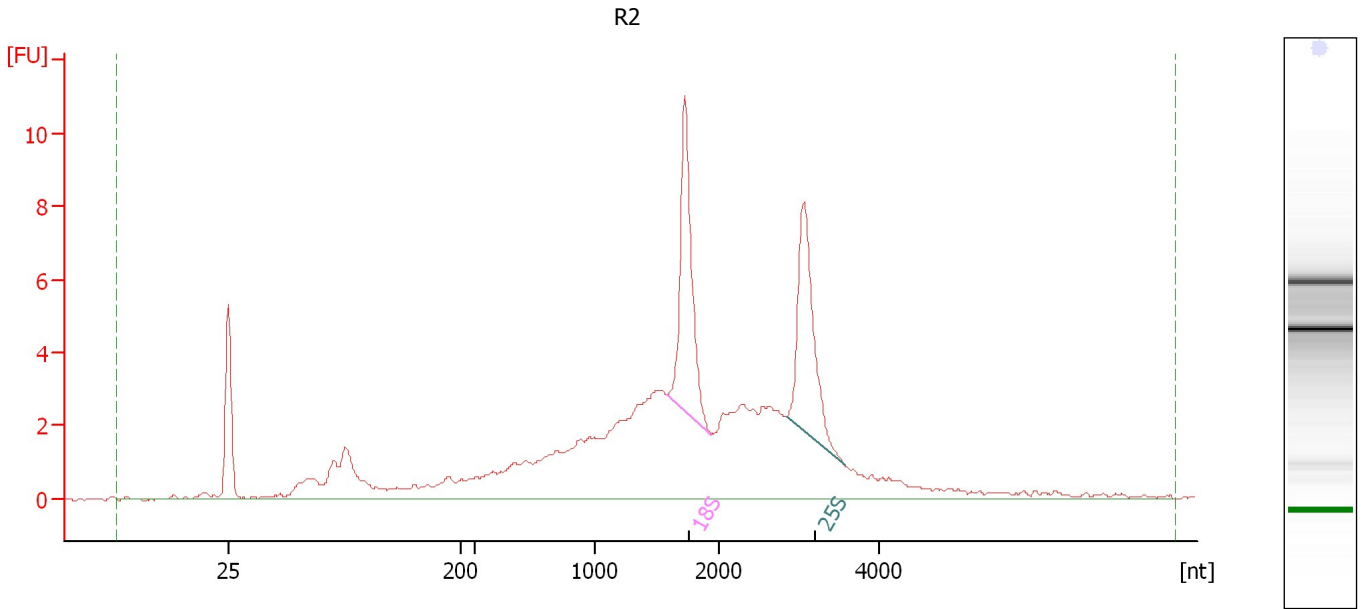
Fragment table for sample 6 : E2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,948	10.1	9.2
25S	2,865	3,650	11.6	10.6

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
Modified: 7/24/2014 12:36:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : R2

RNA Area:	110.1	RNA Integrity Number (RIN):	6.6 (B.02.08)
RNA Concentration:	75 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.9	Result Flagging Label:	RIN: 6.60

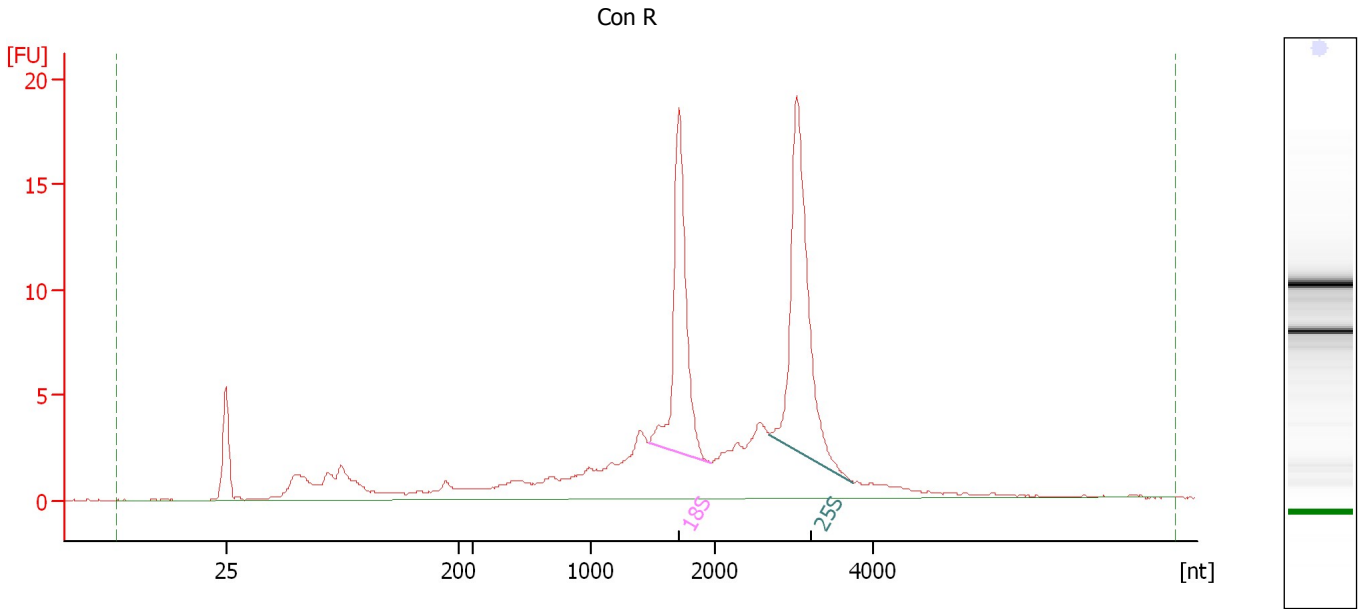
Fragment table for sample 7 : R2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,579	1,938	11.5	10.4
25S	2,853	3,575	10.1	9.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
Modified: 7/24/2014 12:36:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Con R

RNA Area: 145.5 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 99 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.3 Result Flagging Label: RIN:8

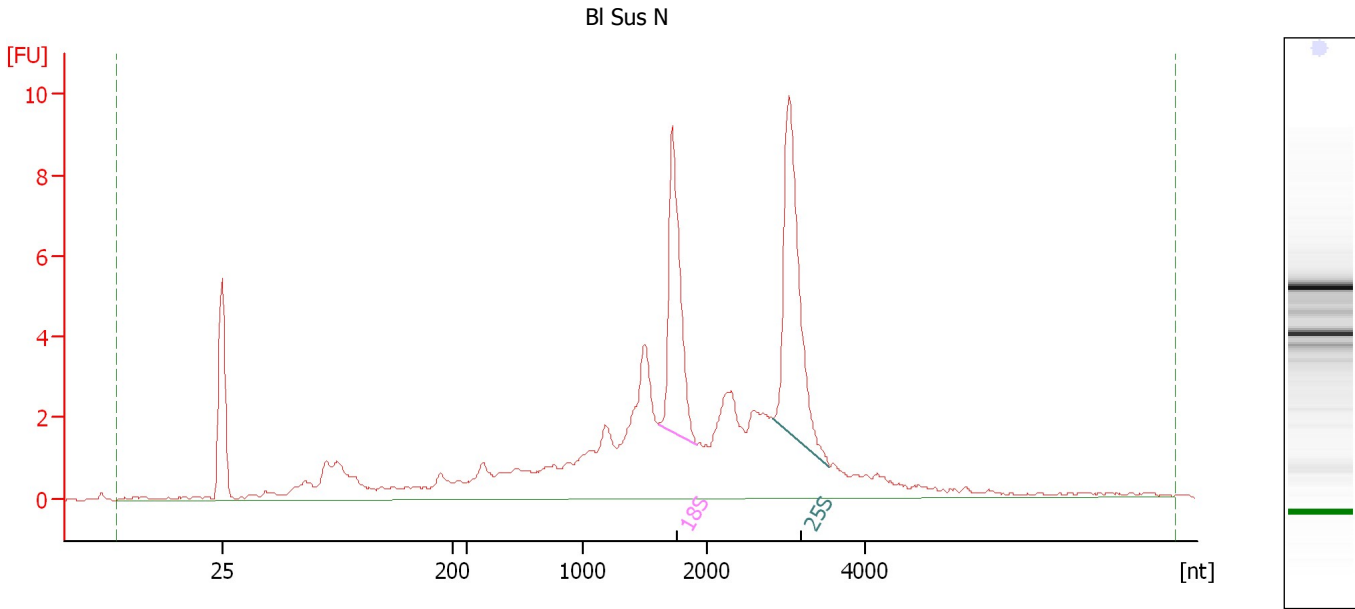
Fragment table for sample 8 : Con R

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,464	1,971	23.2	15.9
25S	2,693	3,740	29.7	20.4

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
 Modified: 7/24/2014 12:36:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : BI Sus N

RNA Area:	94.1	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	64 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.3	Result Flagging Label:	RIN: 7.10

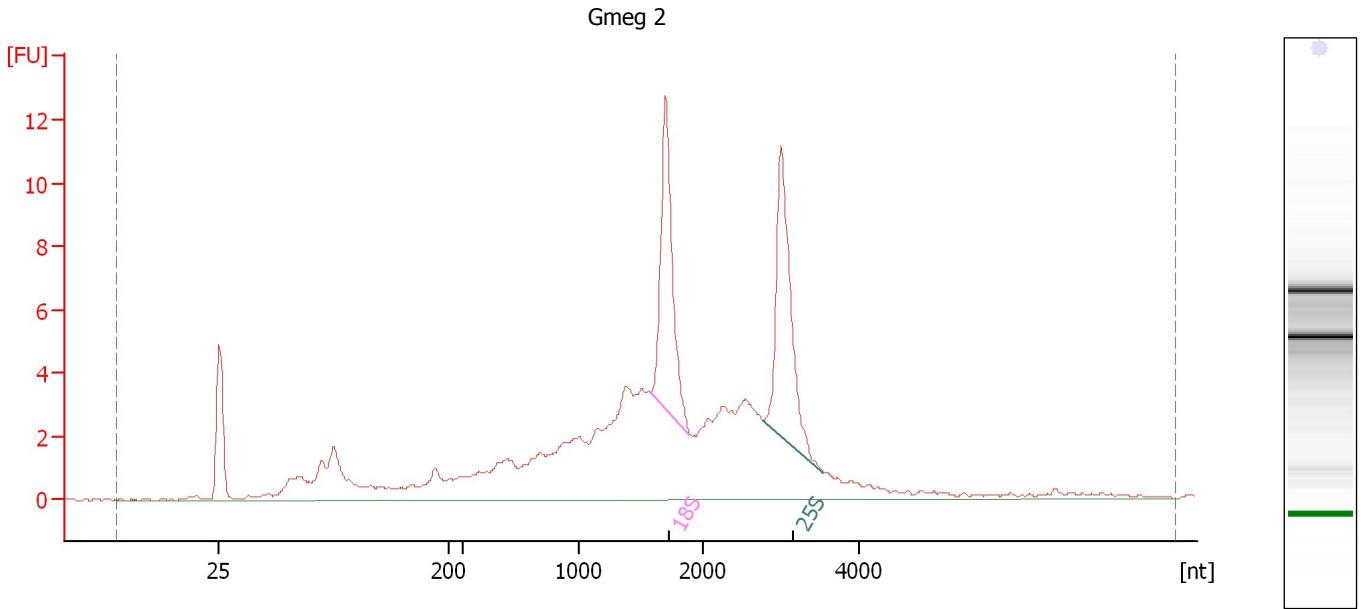
Fragment table for sample 9 : BI Sus N

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,613	1,917	9.9	10.5
25S	2,844	3,561	13.2	14.0

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
Modified: 7/24/2014 12:36:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Gmeg 2

RNA Area:	129.6	RNA Integrity Number (RIN):	6.7 (B.02.08)
RNA Concentration:	89 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.0	Result Flagging Label:	RIN: 6.70

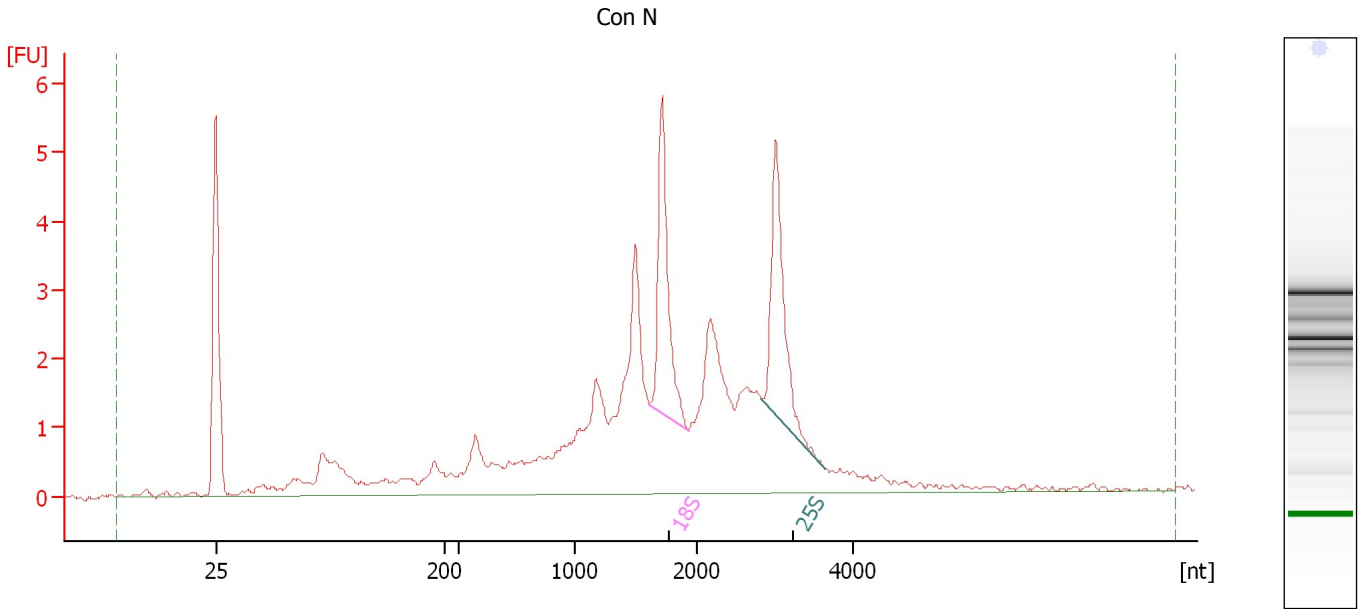
Fragment table for sample 10 : Gmeg 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	1,898	13.4	10.3
25S	2,778	3,539	14.1	10.8

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
Modified: 7/24/2014 12:36:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Con N

RNA Area: 62.4 RNA Integrity Number (RIN): 6.5 (B.02.08)
RNA Concentration: 43 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.0 Result Flagging Label: RIN: 6.50

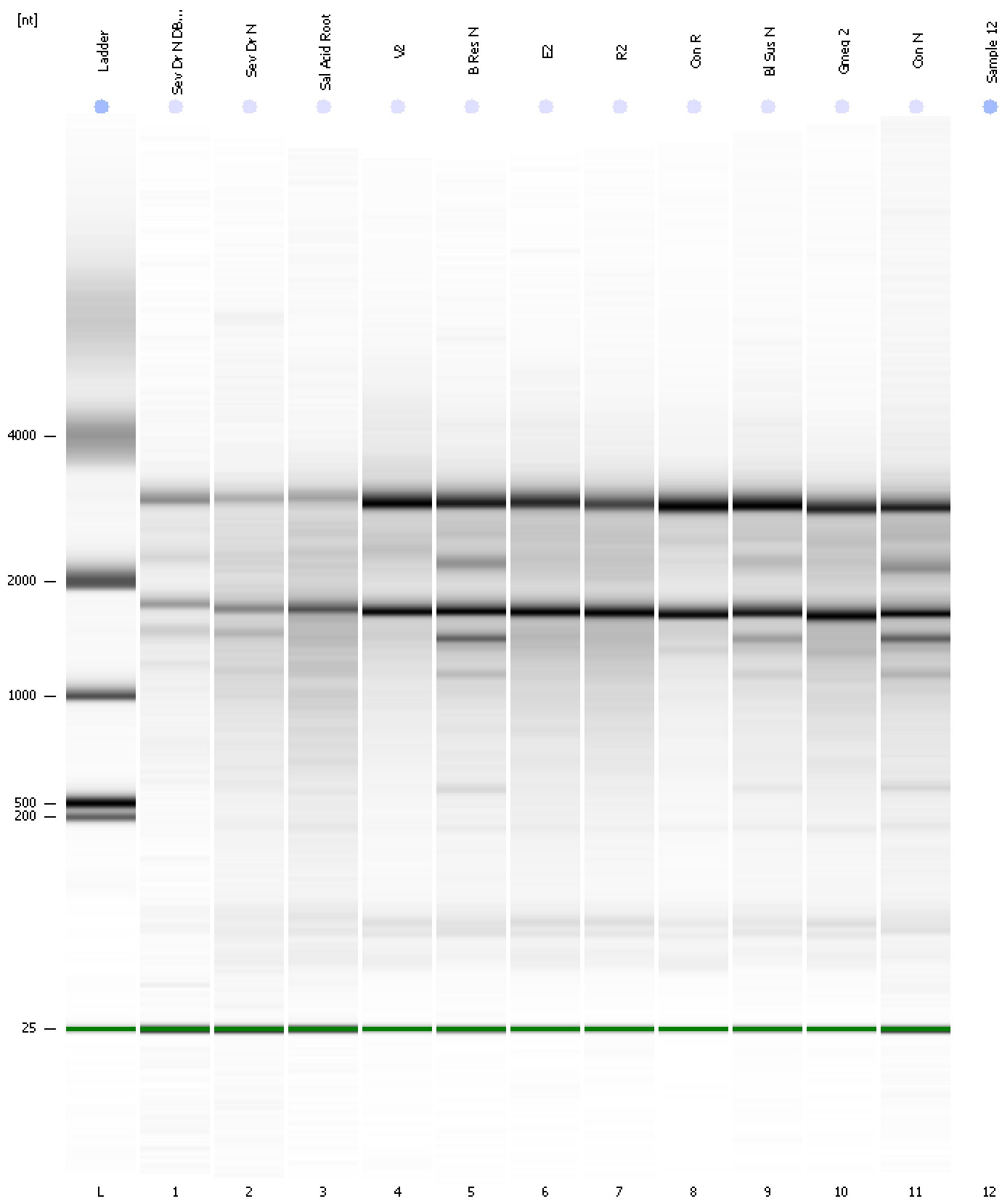
Fragment table for sample 11 : Con N

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	1,939	5.2	8.3
25S	2,834	3,641	5.3	8.5

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
Modified: 7/24/2014 12:36:20 PM

Gel Image



Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
Modified: 7/24/2014 12:36:20 PM

Invalid Samples

Sample 12 has not been run, no results available.

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad

Created: 7/24/2014 12:13:49 PM
 Modified: 7/24/2014 12:36:20 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		7/24/2014 12:36:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_002.xad)		Instrument	Run		7/24/2014 12:13:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/24/2014 12:13:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/24/2014 12:13:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/24/2014 12:13:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/24/2014 12:13:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/24/2014 12:13:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/24/2014 12:13:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1