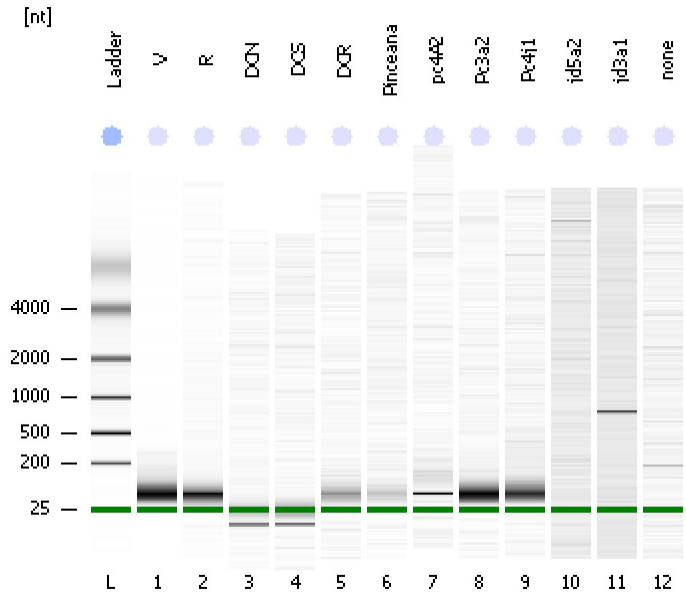


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

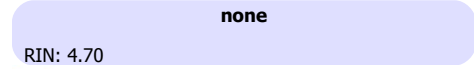
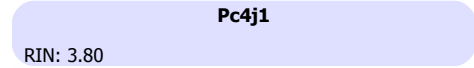
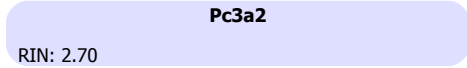
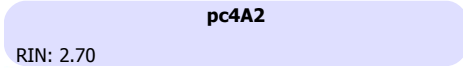
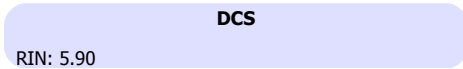
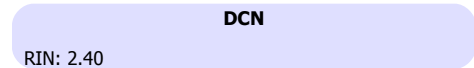
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

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:



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
 Modified: 4/4/2014 11:27:04 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
V		✓	RIN: 2.60	
R		✓	RIN: 2.60	
DCN		✓	RIN: 2.40	
DCS		✓	RIN: 5.90	
DCR		✓	RIN: 2.80	
Pinceana		✓	RIN: 2.60	
pc4A2		✓	RIN: 2.70	
Pc3a2		✓	RIN: 2.70	
Pc4j1		✓	RIN: 3.80	
jd5a2		✓	RIN: 4.70	
jd3a1		✓	RIN: 2.80	
none		✓	RIN: 4.70	
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_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 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

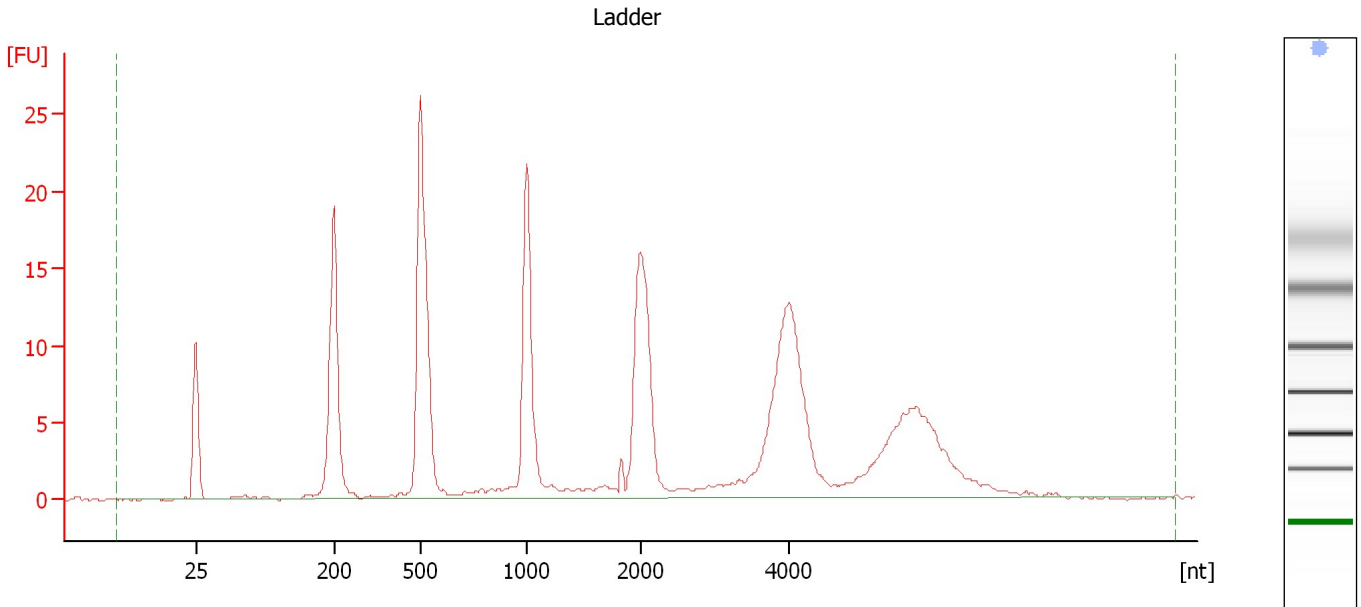
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 AM

Electropherogram Summary



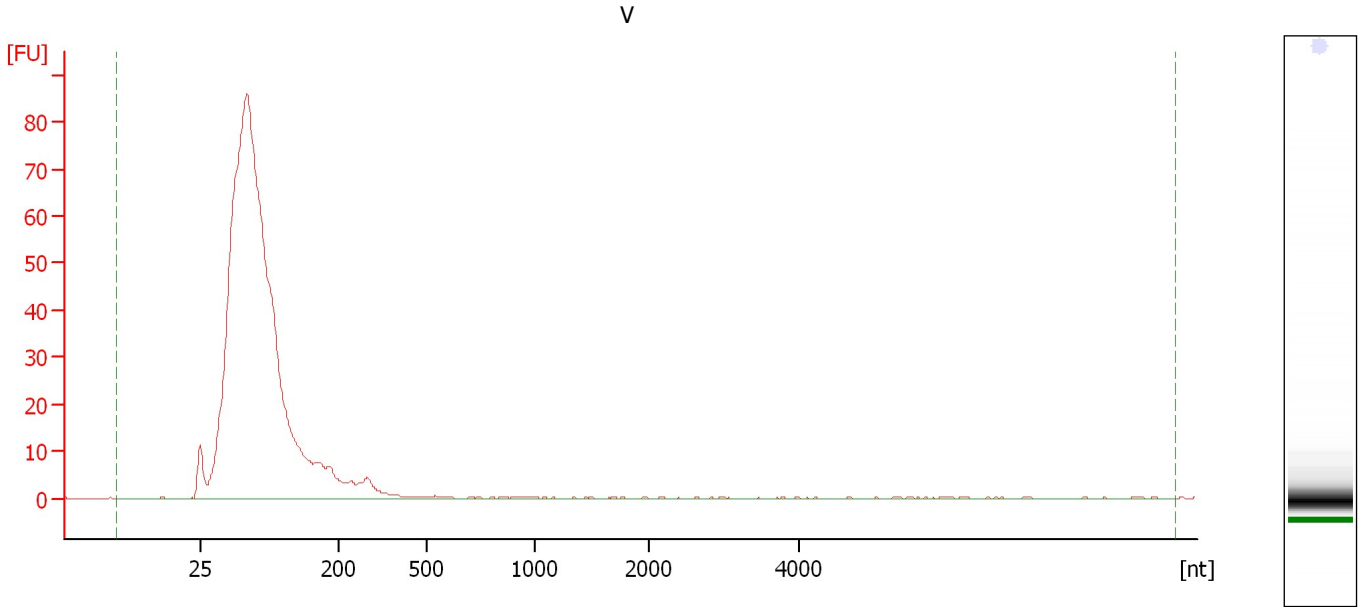
Overall Results for Ladder

RNA Area:	226.8	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 AM

Electropherogram Summary Continued ...



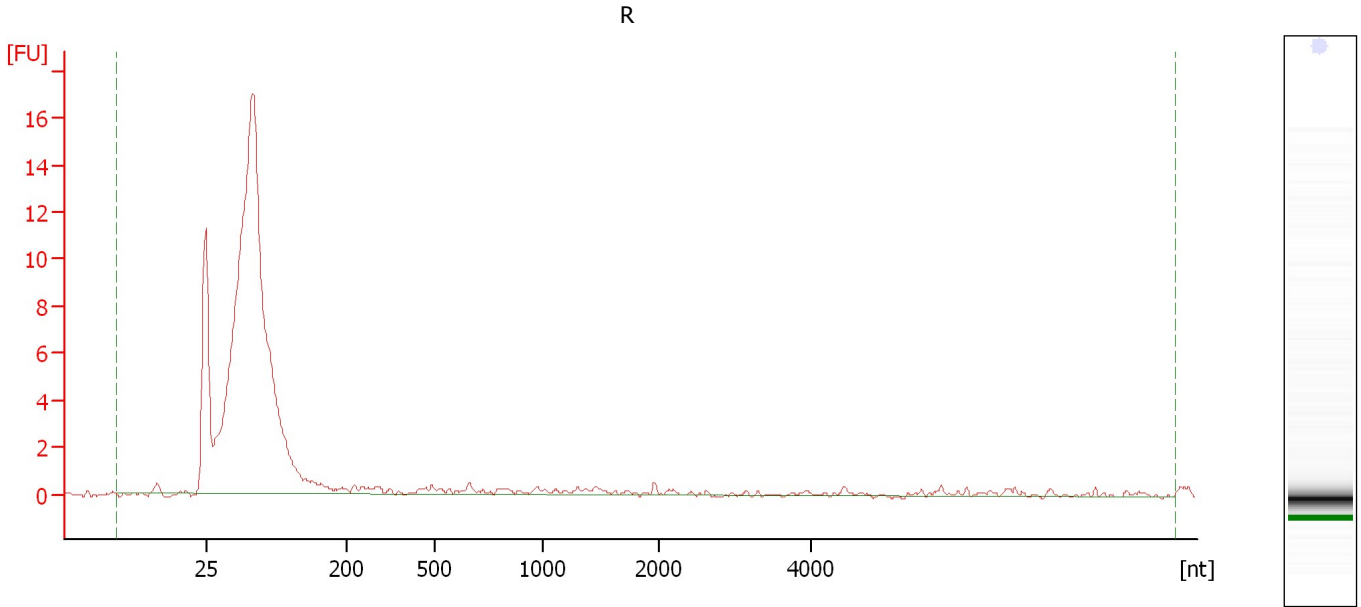
Overall Results for sample 1 : V

RNA Area:	771.5	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	510 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_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 AM

Electropherogram Summary Continued ...



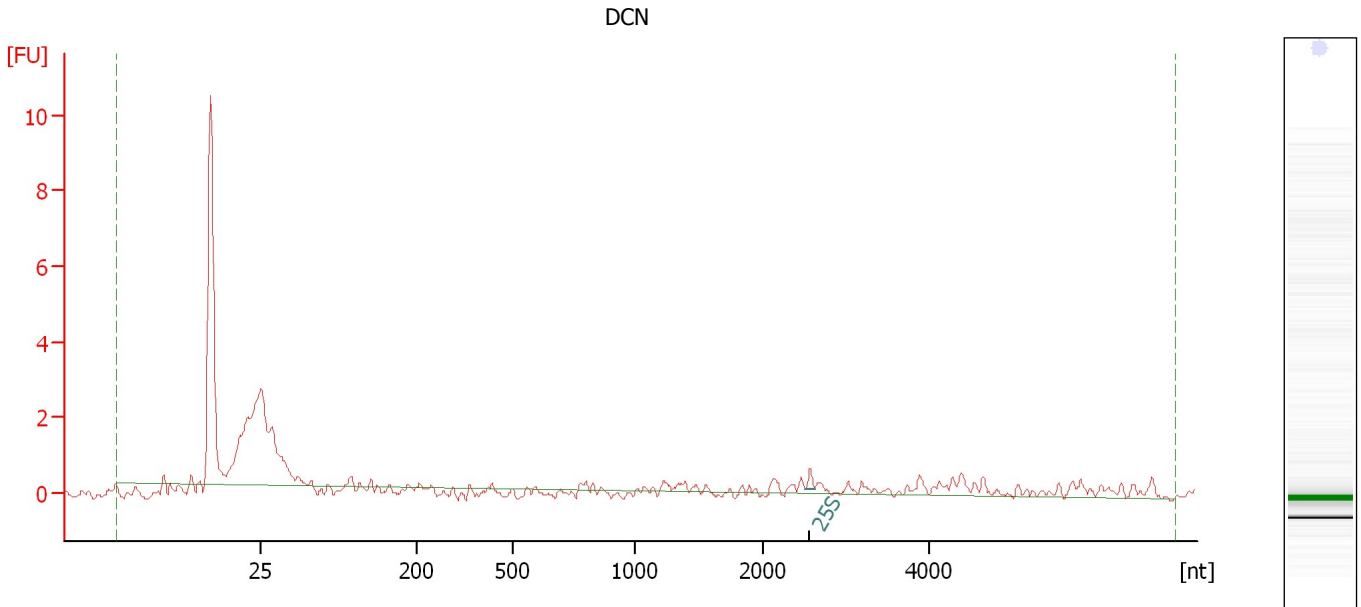
Overall Results for sample 2 : R

RNA Area:	114.1	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	75 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_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : DCN

RNA Area:	22.5	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	15 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

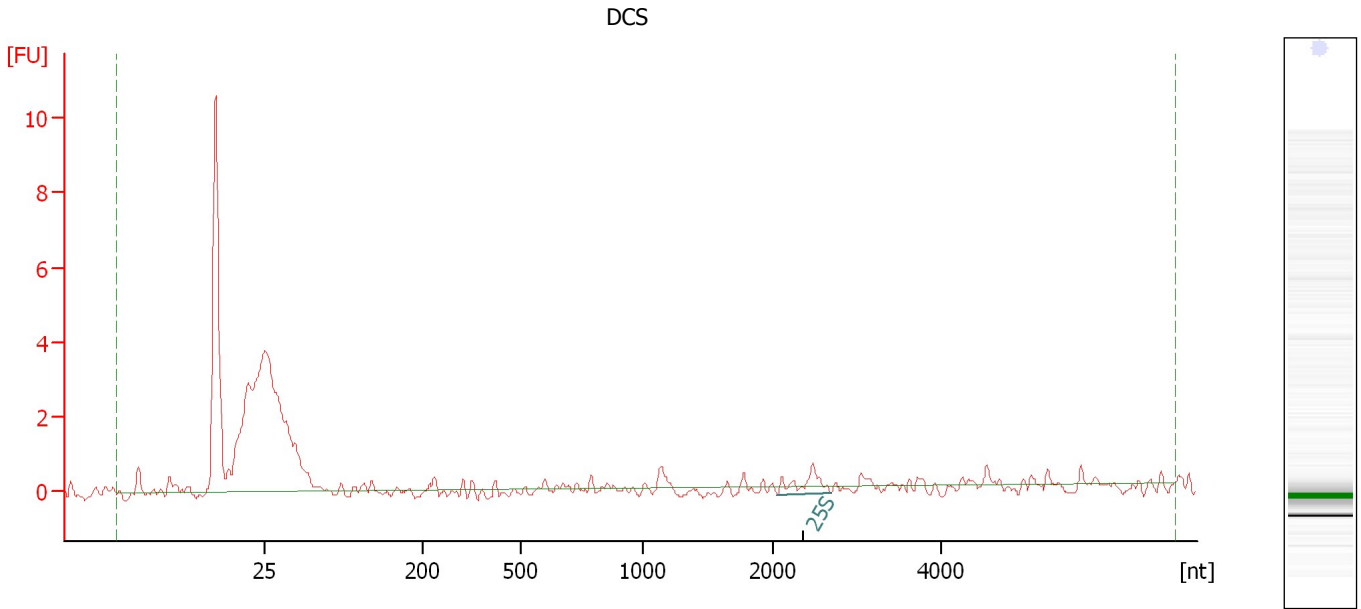
Fragment table for sample 3 : DCN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,512	2,626	0.2	1.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : DCS

RNA Area:	23.0	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	15 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 5.90

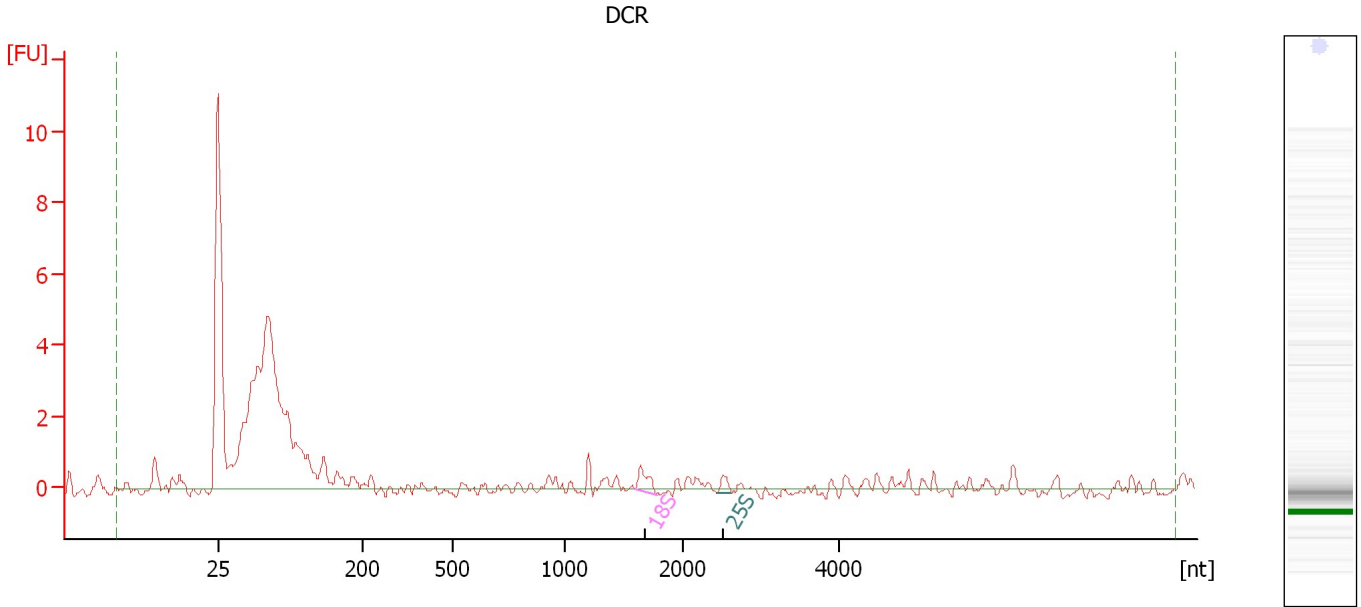
Fragment table for sample 4 : DCS

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,059	2,703	1.5	6.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : DCR

RNA Area:	41.9	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	28 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.4	Result Flagging Label:	RIN: 2.80

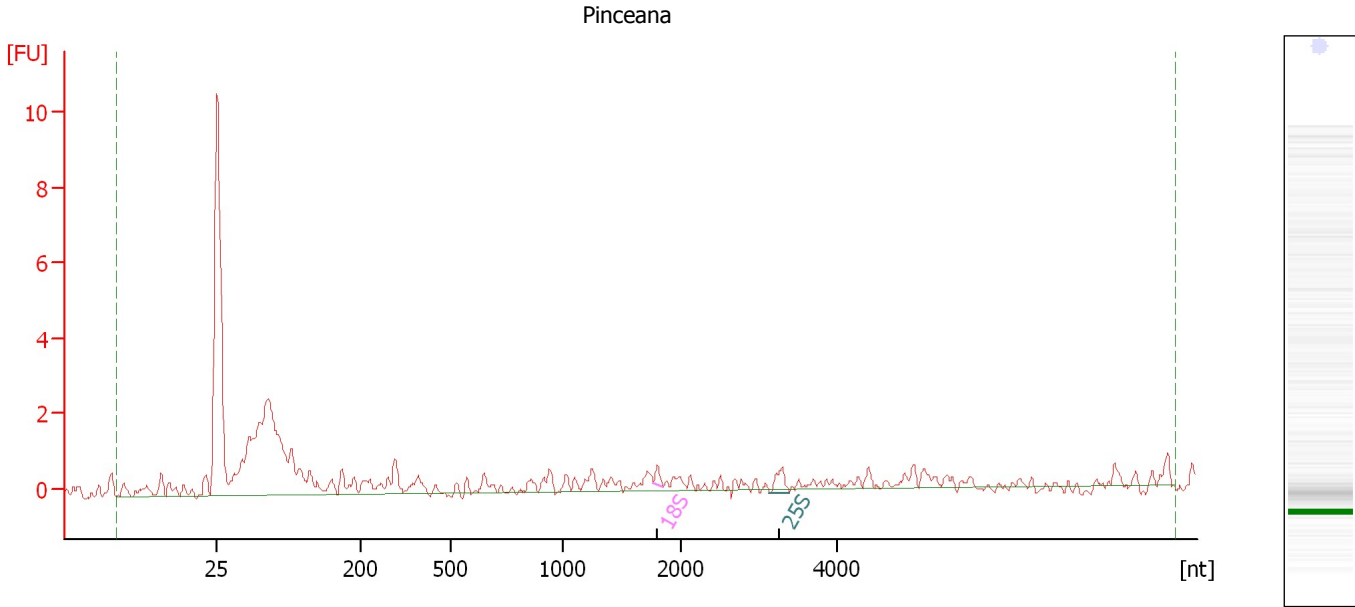
Fragment table for sample 5 : DCR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,595	1,775	0.8	2.0
25S	2,442	2,621	0.4	0.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Pinceana

RNA Area:	37.7	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	25 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.6	Result Flagging Label:	RIN: 2.60

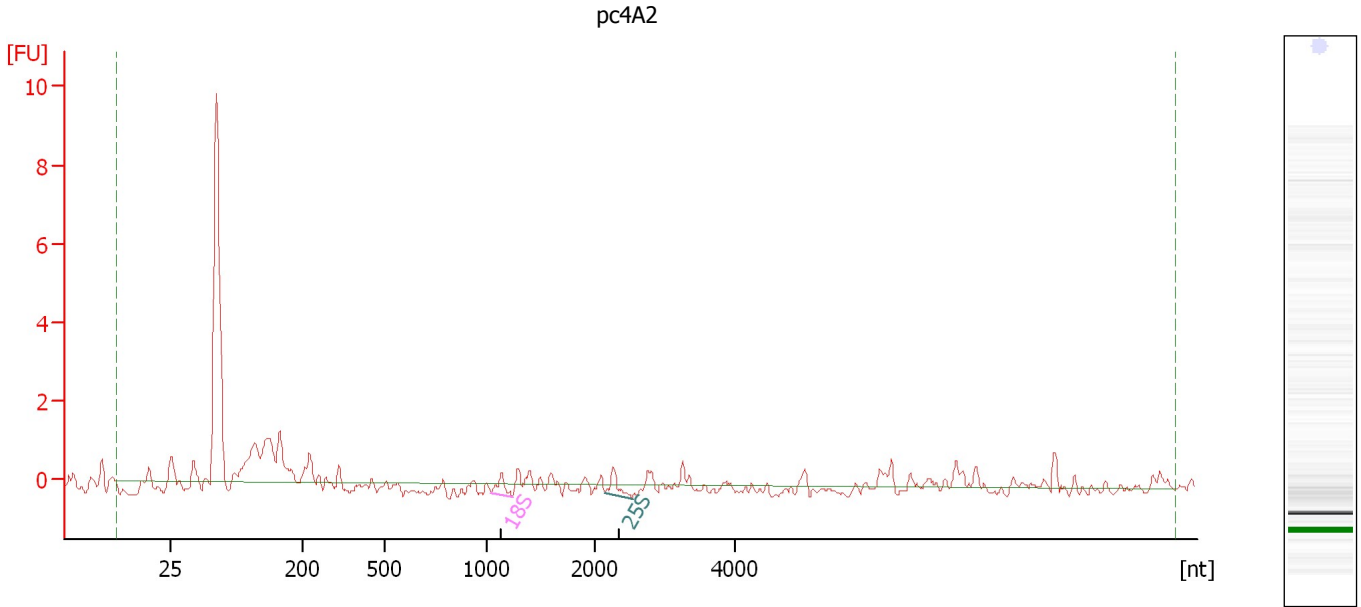
Fragment table for sample 6 : Pinceana

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,765	1,846	0.2	0.7
25S	3,145	3,394	0.6	1.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : pc4A2

RNA Area: 26.9 RNA Integrity Number (RIN): 2.7 (B.02.08)
RNA Concentration: 18 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.9 Result Flagging Label: RIN: 2.70

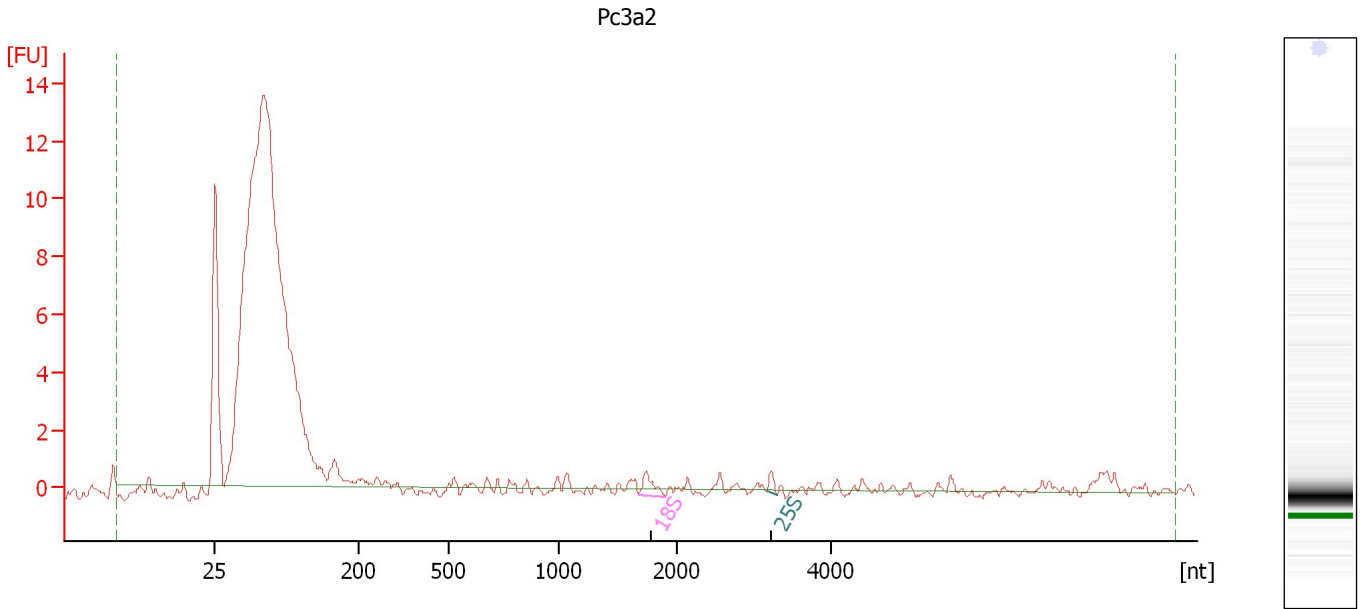
Fragment table for sample 7 : pc4A2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,043	1,241	0.6	2.3
25S	2,160	2,539	0.6	2.1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Pc3a2

RNA Area: 112.9 RNA Integrity Number (RIN): 2.7 (B.02.08)
RNA Concentration: 75 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.4 Result Flagging Label: RIN: 2.70

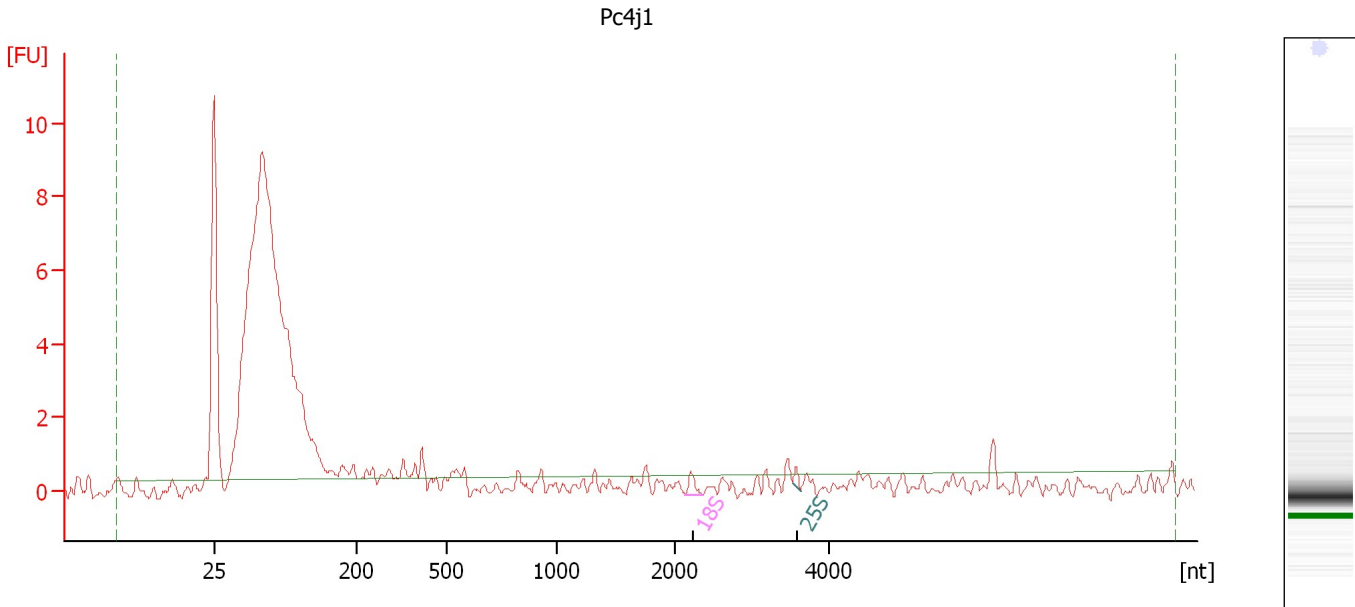
Fragment table for sample 8 : Pc3a2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,671	1,898	1.0	0.9
25S	3,161	3,286	0.4	0.3

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
 Modified: 4/4/2014 11:27:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Pc4j1

RNA Area:	67.9	RNA Integrity Number (RIN):	3.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	45 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.6	Result Flagging Label:	RIN: 3.80

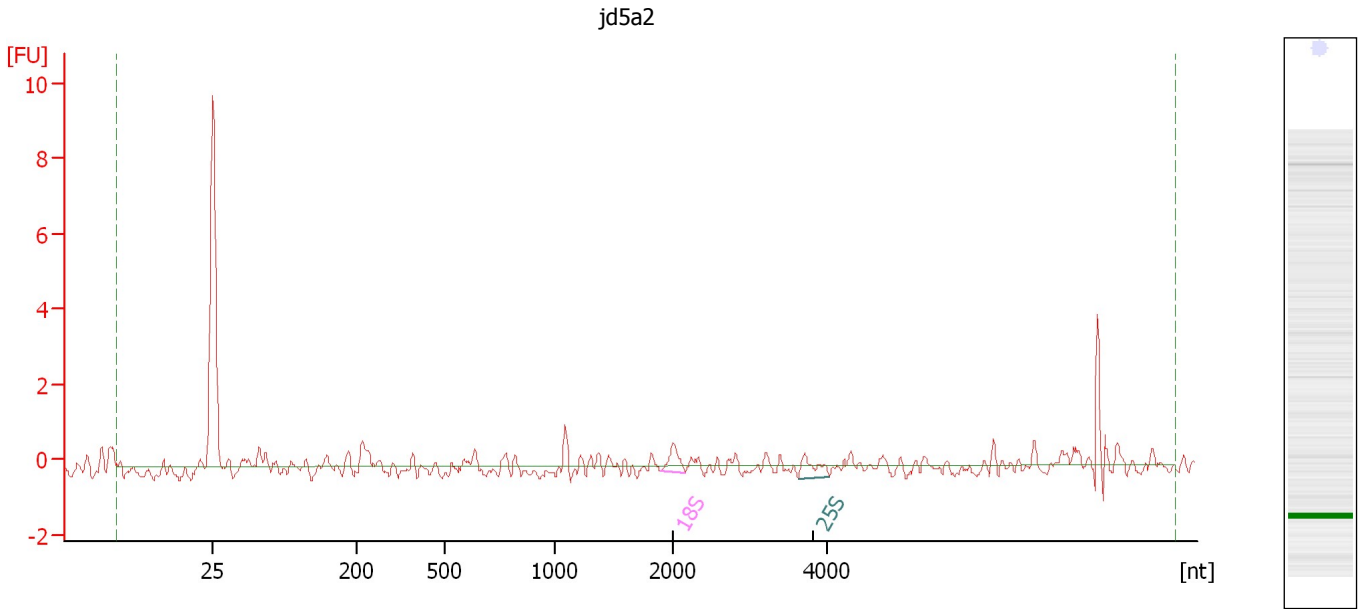
Fragment table for sample 9 : Pc4j1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,135	2,371	0.4	0.6
25S	3,523	3,634	0.2	0.3

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : jd5a2

RNA Area:	8.9	RNA Integrity Number (RIN):	4.7 (B.02.08)
RNA Concentration:	6 ng/ μ l	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.0	Result Flagging Label:	RIN: 4.70

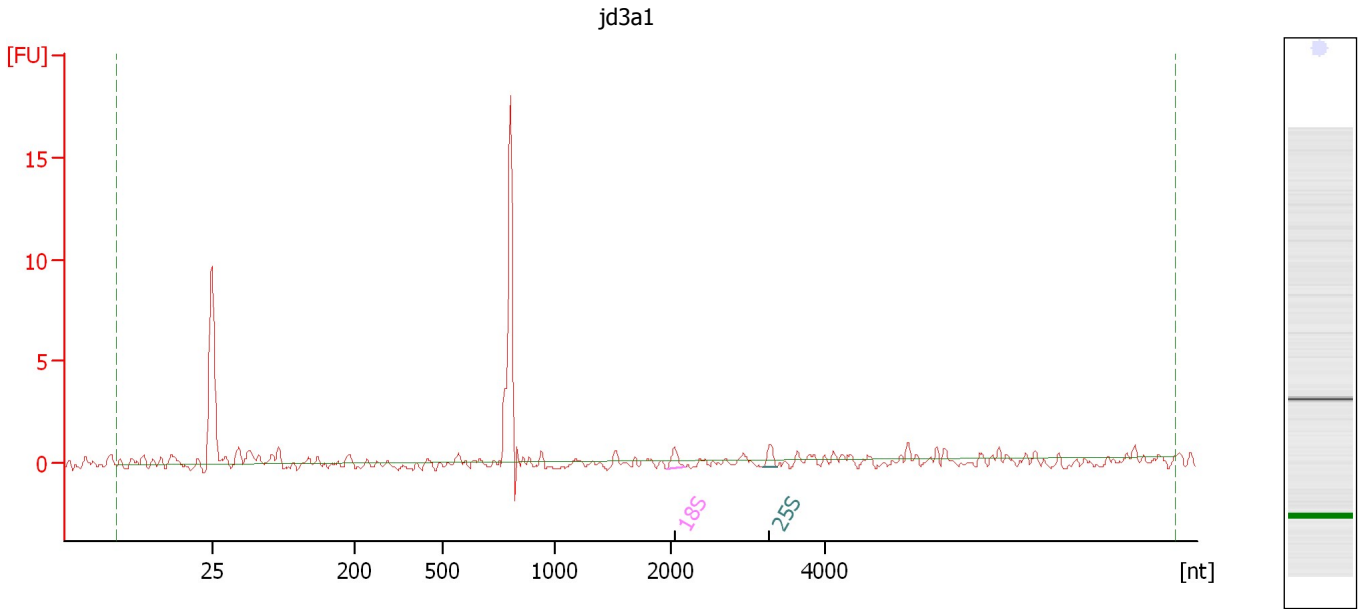
Fragment table for sample 10 : jd5a2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,896	2,162	0.9	9.6
25S	3,636	4,039	0.9	10.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : jd3a1

RNA Area: 24.5 RNA Integrity Number (RIN): 2.8 (B.02.08)
RNA Concentration: 16 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN: 2.80

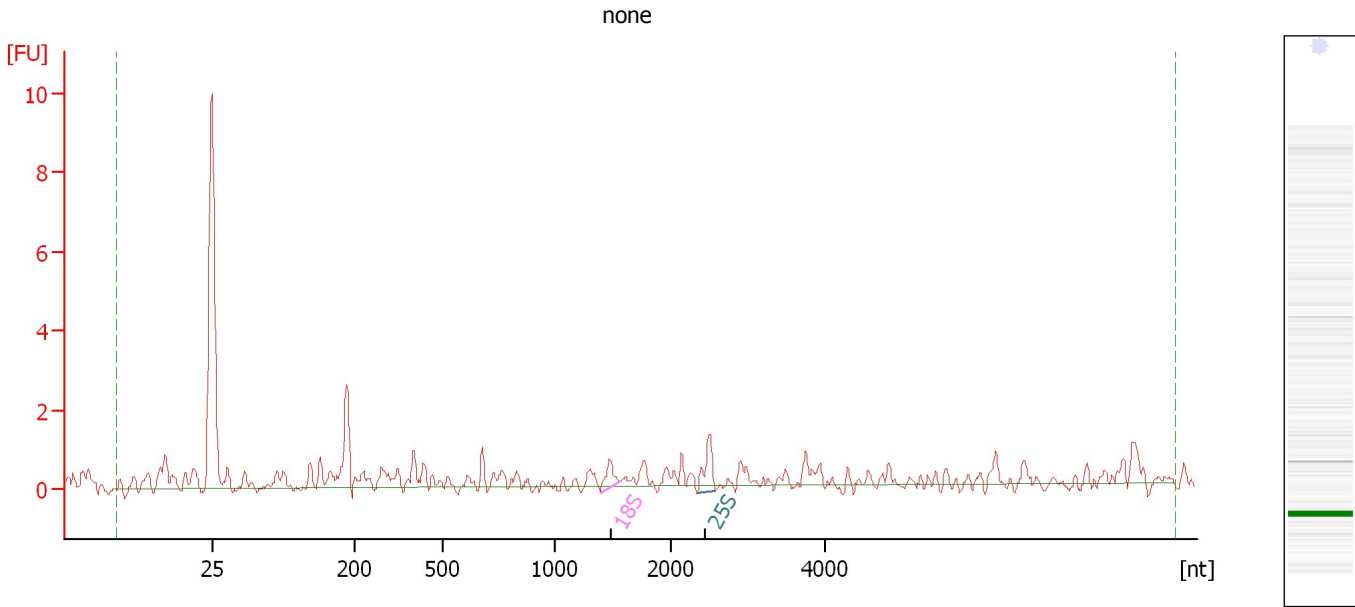
Fragment table for sample 11 : jd3a1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,959	2,188	0.8	3.4
25S	3,206	3,373	0.6	2.6

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : none

RNA Area: 25.0 RNA Integrity Number (RIN): 4.7 (B.02.08)
RNA Concentration: 17 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.6 Result Flagging Label: RIN: 4.70

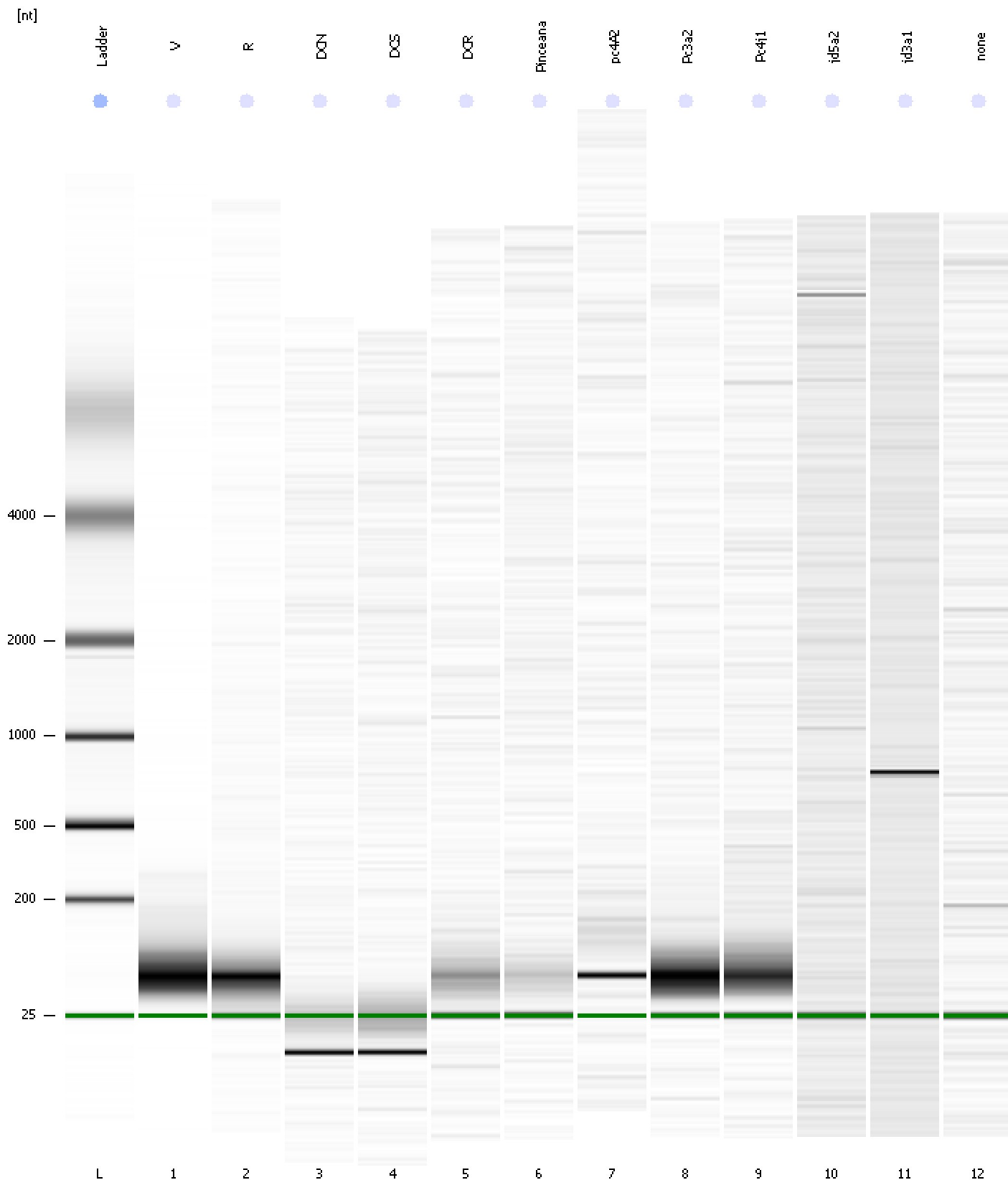
Fragment table for sample 12 : none

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,392	1,575	0.7	2.9
25S	2,342	2,579	1.2	4.6

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
Modified: 4/4/2014 11:27:04 AM

Gel Image



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_002.xad

Created: 4/4/2014 11:03:14 AM
 Modified: 4/4/2014 11:27:04 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		4/4/2014 11:27:01 AM	(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_002.xad)		Instrument	Run		4/4/2014 11:03:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/4/2014 11:03:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/4/2014 11:03:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/4/2014 11:03:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/4/2014 11:03:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/4/2014 11:03:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/4/2014 11:03:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1