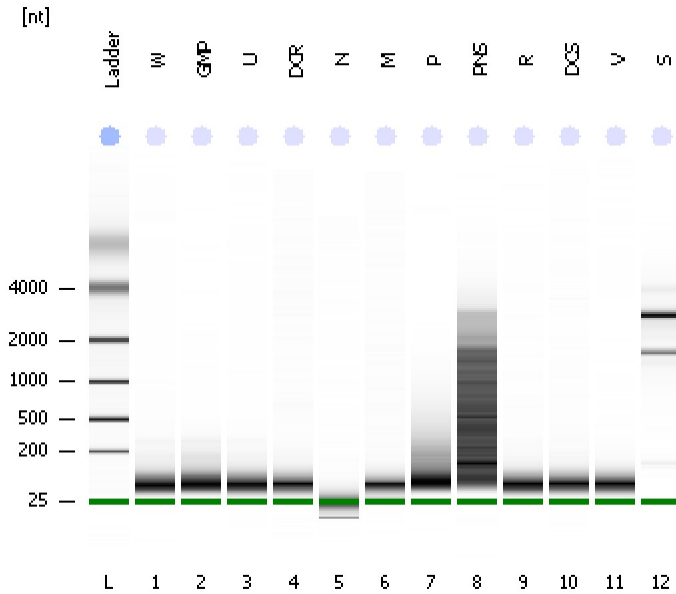


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 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)

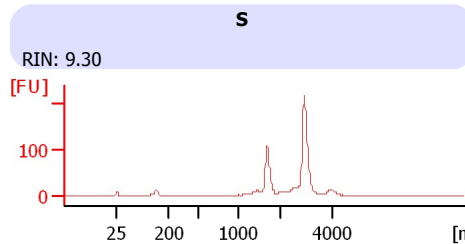
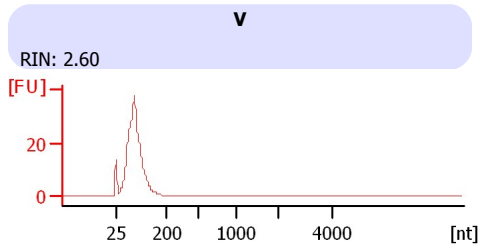
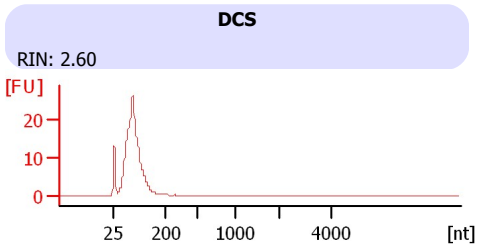
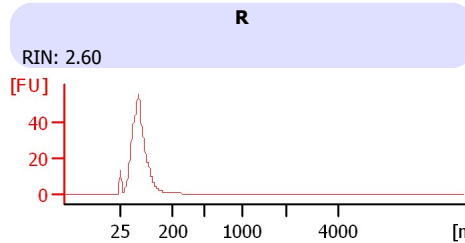
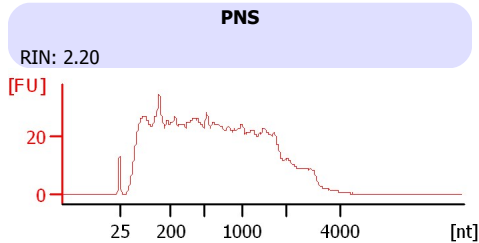
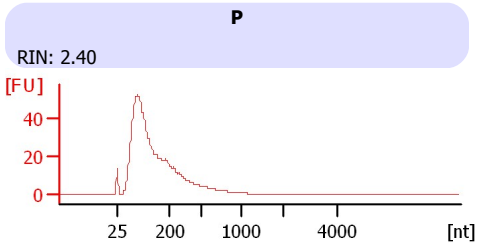
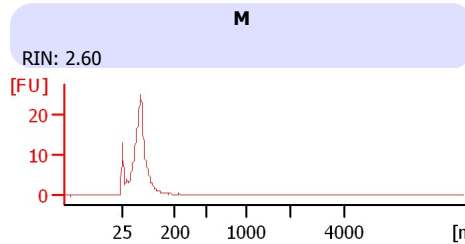
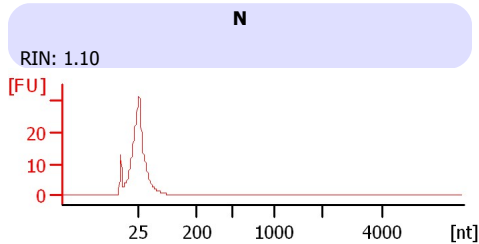
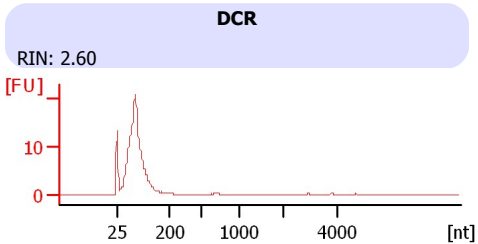
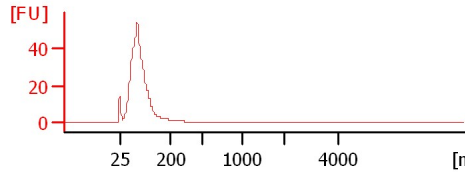
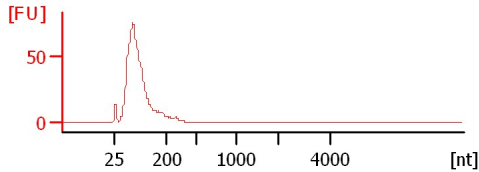
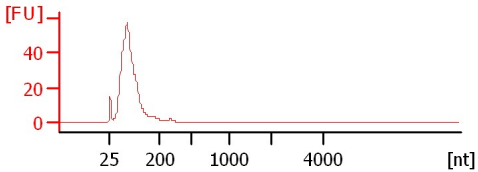
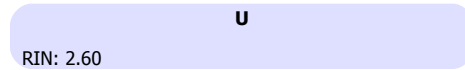
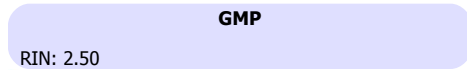
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
 Modified: 4/3/2014 9:33:51 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
W		✓	RIN: 2.60	
GMP		✓	RIN: 2.50	
U		✓	RIN: 2.60	
DCR		✓	RIN: 2.60	
N		✓	RIN: 1.10	
M		✓	RIN: 2.60	
P		✓	RIN: 2.40	
PNS		✓	RIN: 2.20	
R		✓	RIN: 2.60	
DCS		✓	RIN: 2.60	
V		✓	RIN: 2.60	
S		✓	RIN: 9.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 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

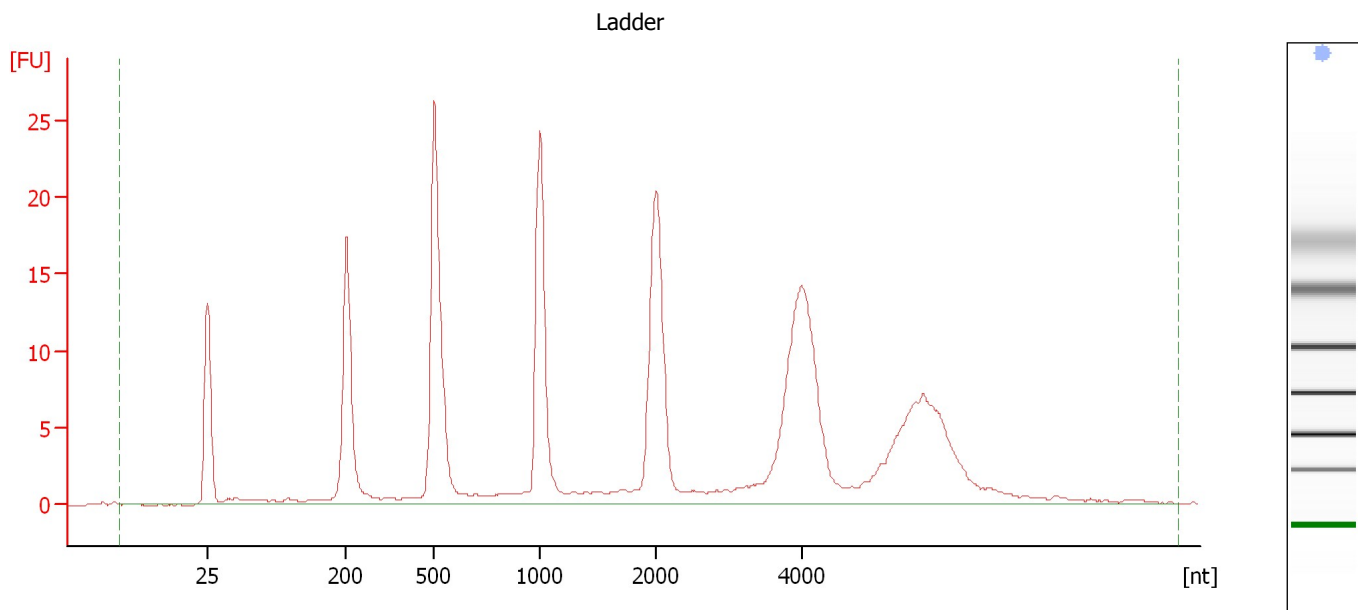
Ladder

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\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Electropherogram Summary



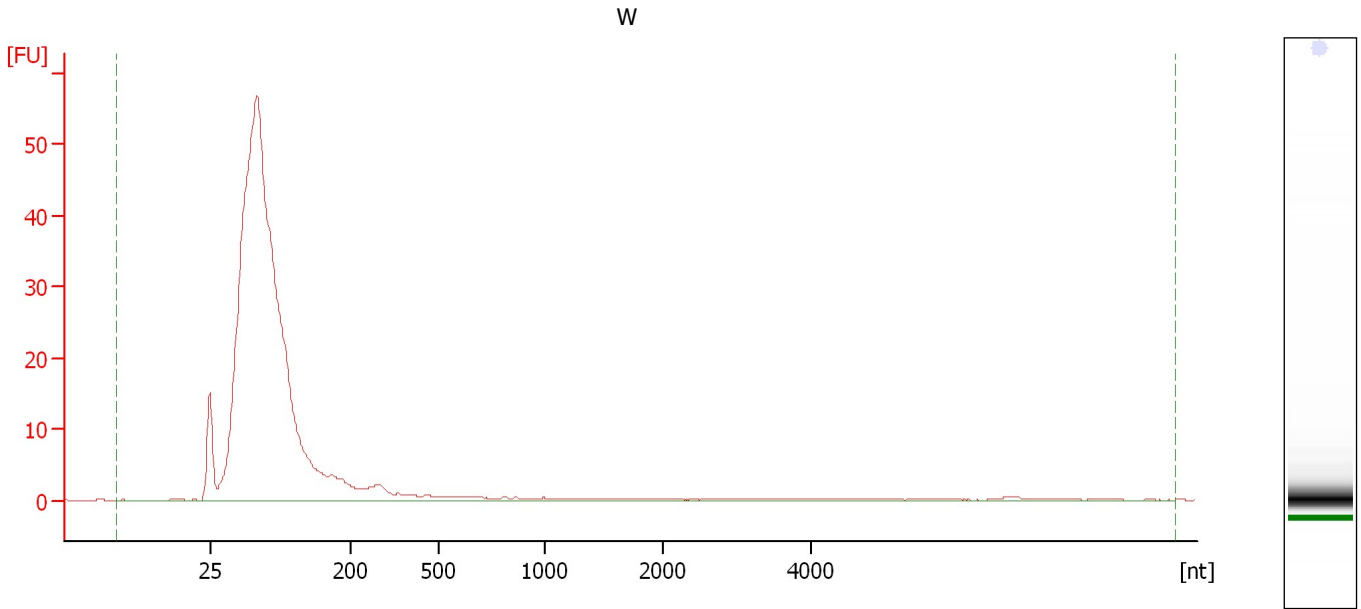
Overall Results for Ladder

RNA Area:	254.2	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\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Electropherogram Summary Continued ...



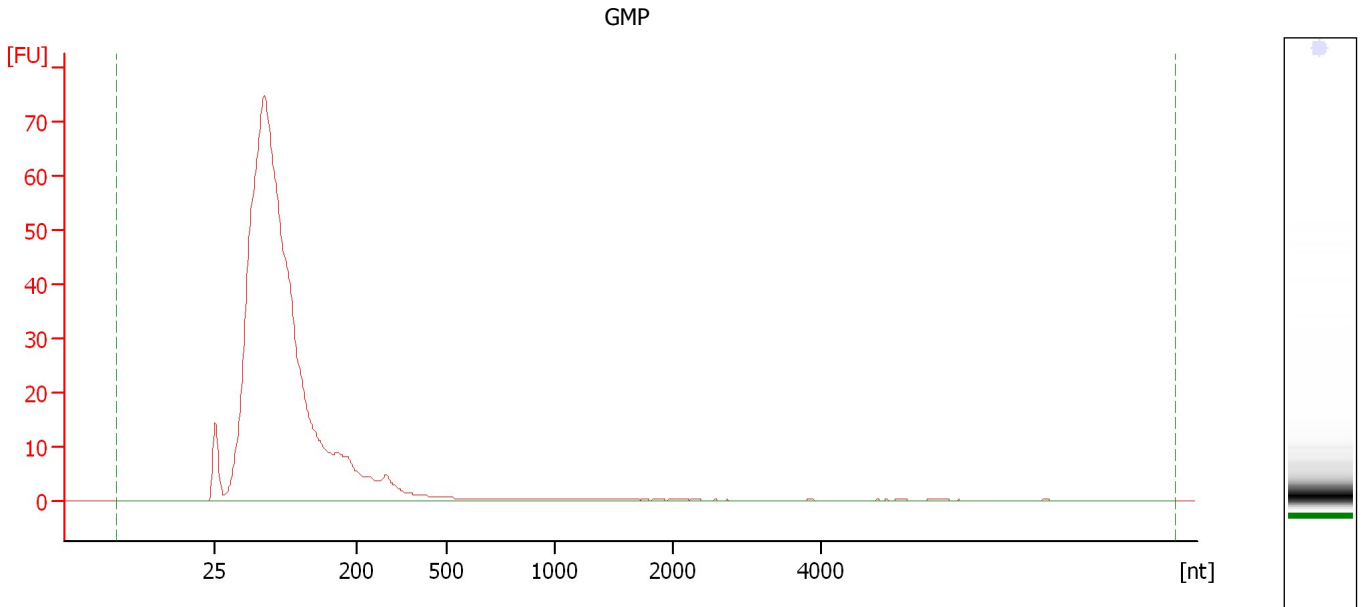
Overall Results for sample 1 : W

RNA Area:	472.8	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	279 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\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Electropherogram Summary Continued ...



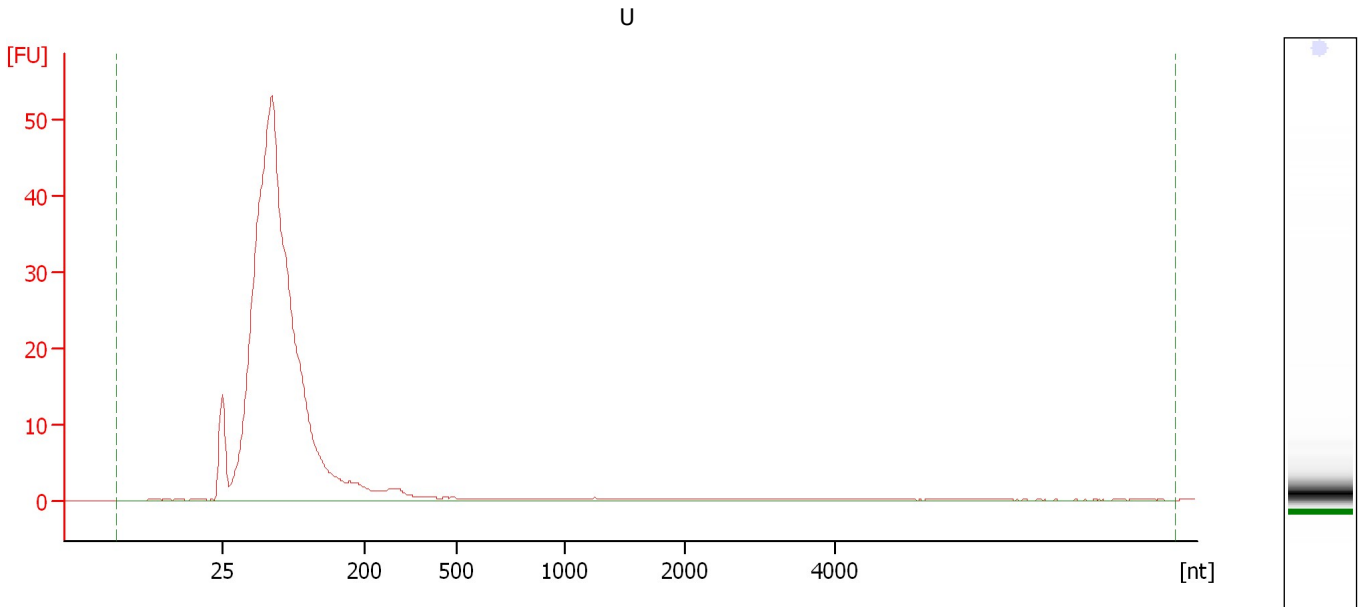
Overall Results for sample 2 : GMP

RNA Area:	692.3	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	409 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Electropherogram Summary Continued ...



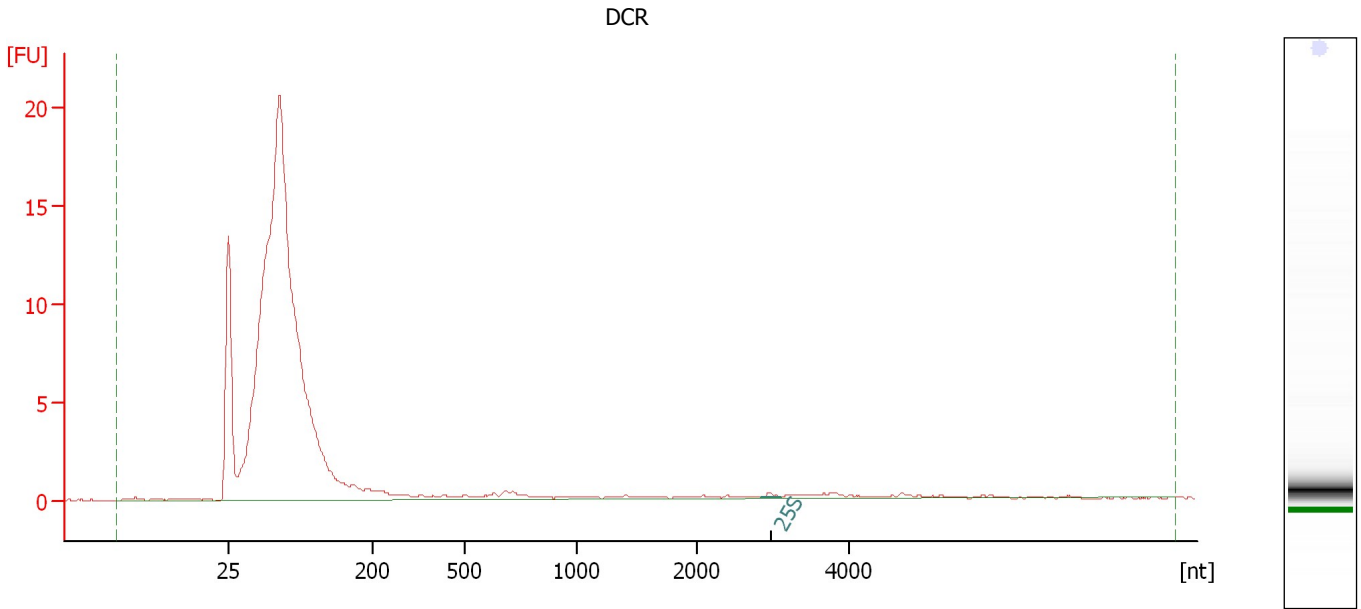
Overall Results for sample 3 : U

RNA Area:	422.3	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	249 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\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : DCR

RNA Area:	143.7	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	85 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

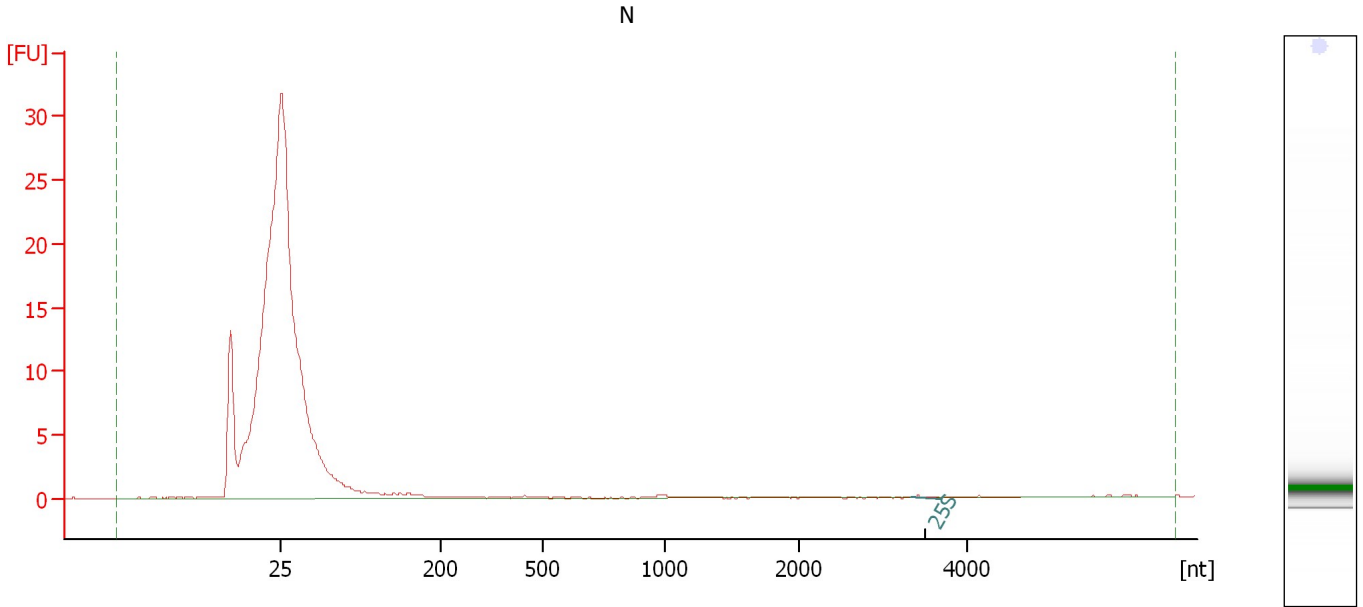
Fragment table for sample 4 : DCR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,834	3,101	0.2	0.1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : N

RNA Area:	25.3	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	15 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

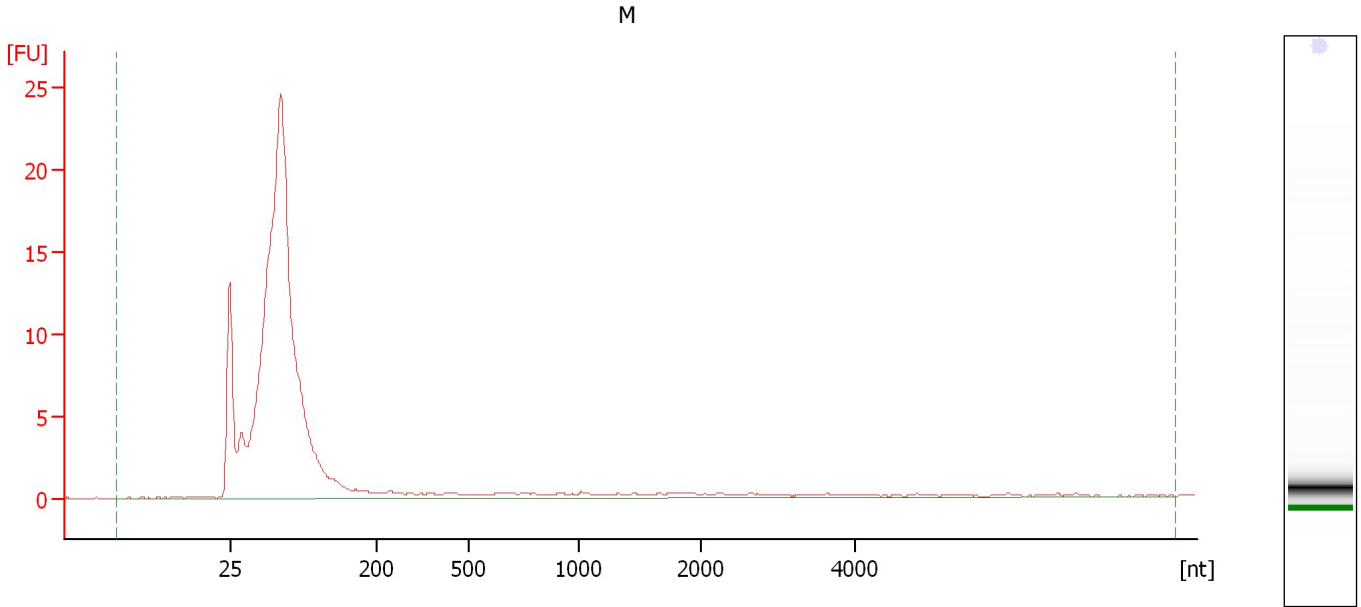
Fragment table for sample 5 : N

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	3,351	3,696	0.1	0.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Electropherogram Summary Continued ...



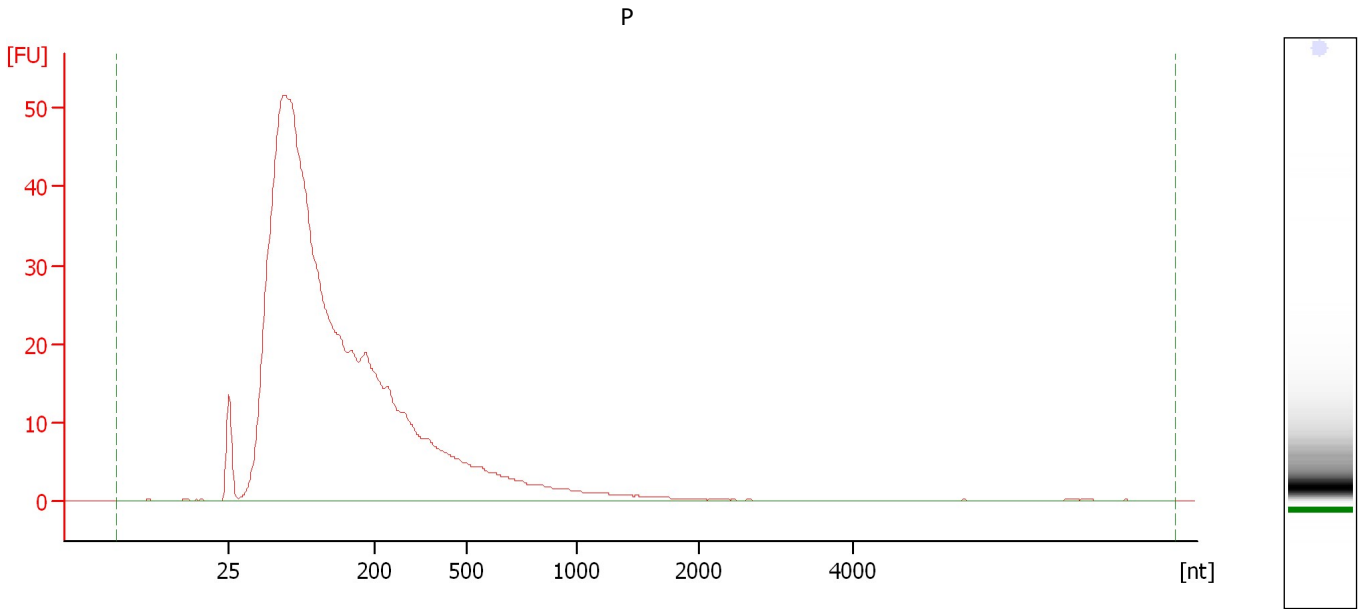
Overall Results for sample 6 : M

RNA Area:	150.5	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	89 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\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Electropherogram Summary Continued ...



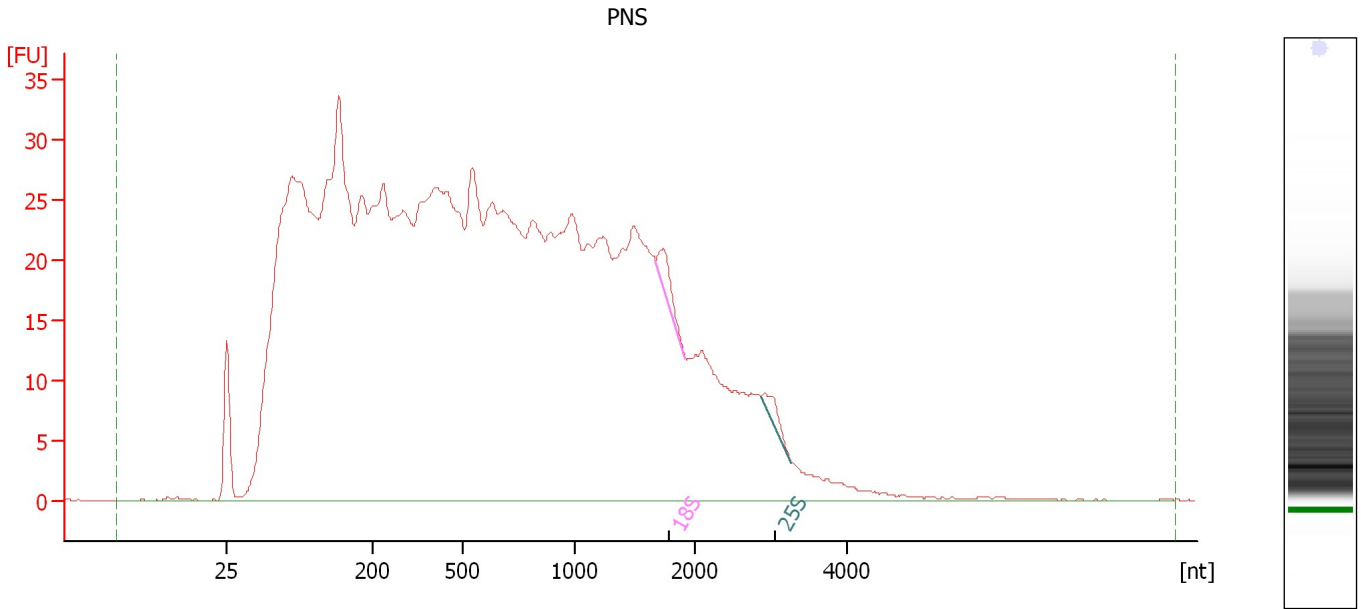
Overall Results for sample 7 : P

RNA Area:	755.4	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	446 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : PNS

RNA Area: 1,417.6 RNA Integrity Number (RIN): 2.2 (B.02.08)
RNA Concentration: 837 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.7 Result Flagging Label: RIN: 2.20

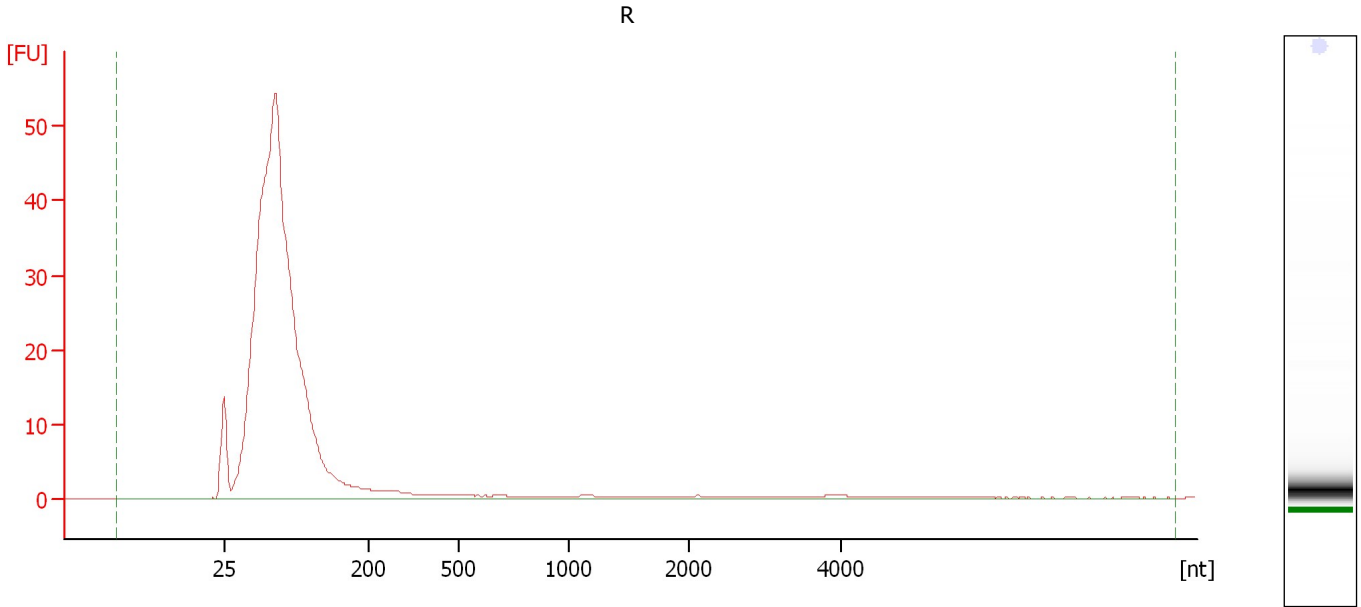
Fragment table for sample 8 : PNS

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,668	1,914	4.5	0.3
25S	2,849	3,257	3.2	0.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Electropherogram Summary Continued ...



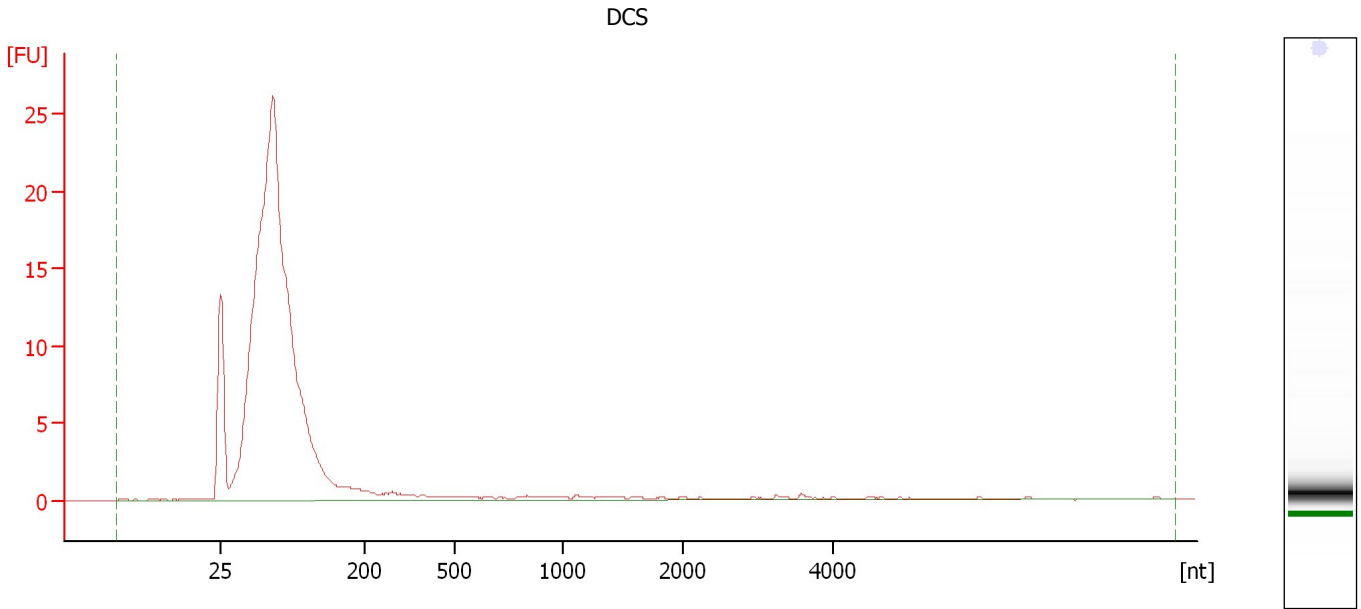
Overall Results for sample 9 : R

RNA Area:	425.5	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	251 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\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Electropherogram Summary Continued ...



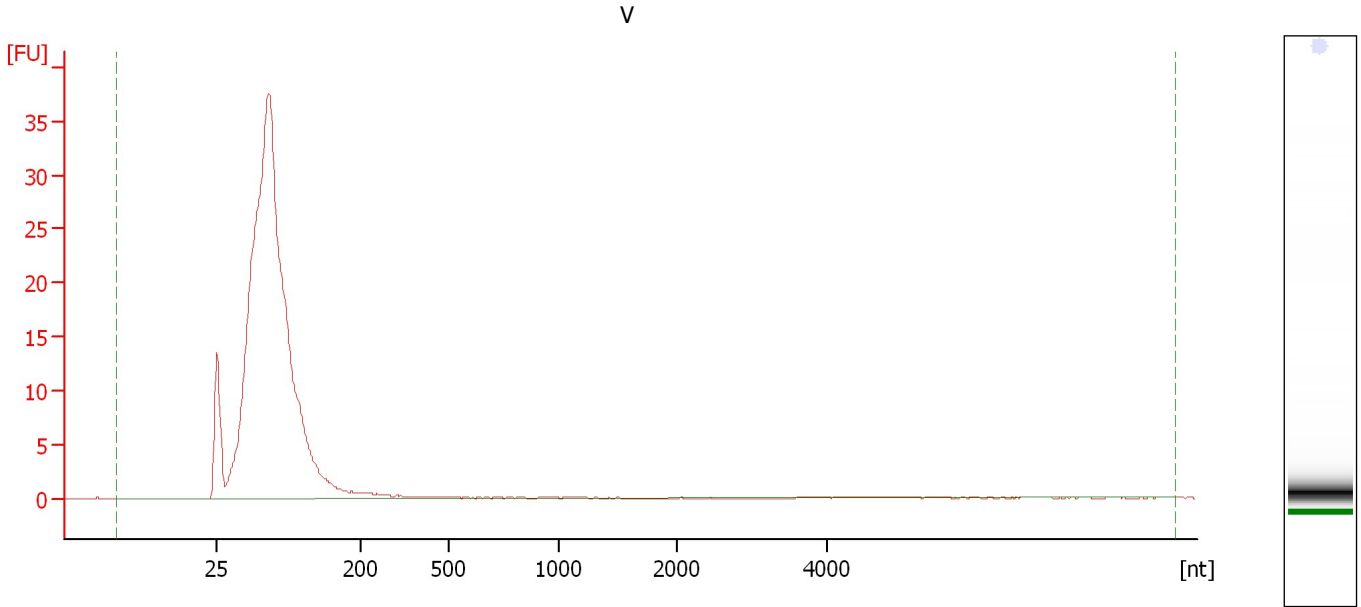
Overall Results for sample 10 : DCS

RNA Area:	189.5	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	112 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\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Electropherogram Summary Continued ...



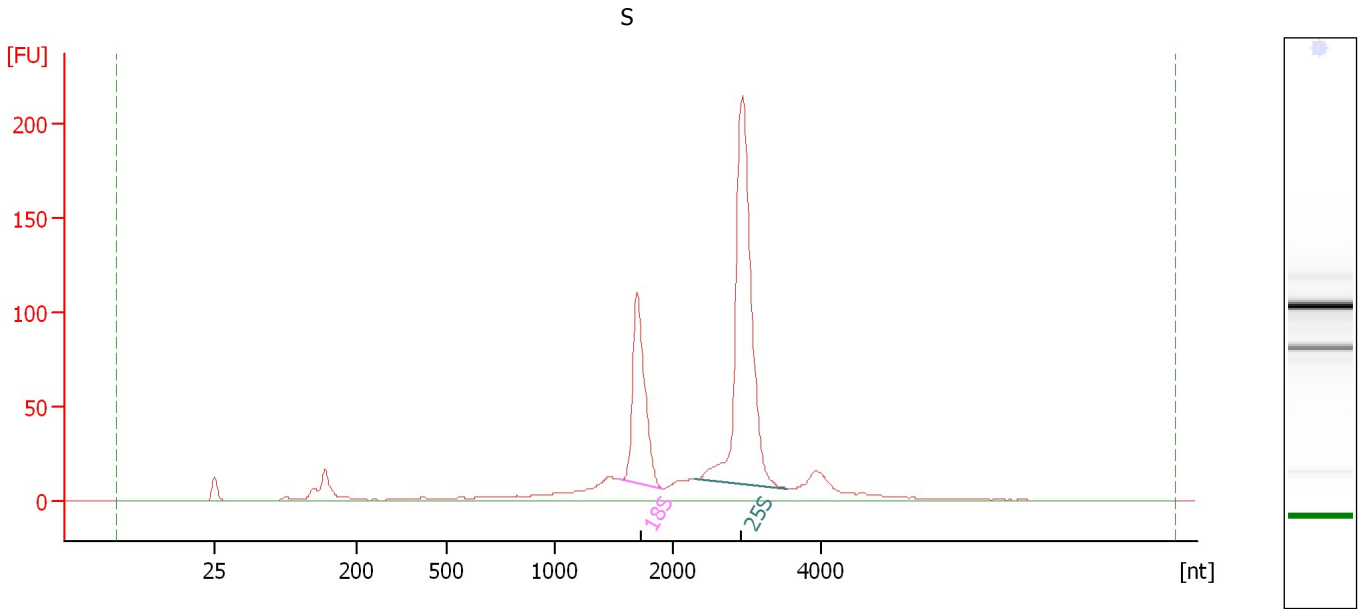
Overall Results for sample 11 : V

RNA Area:	263.8	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	156 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\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : S

RNA Area:	873.6	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	516 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.3	Result Flagging Label:	RIN: 9.30

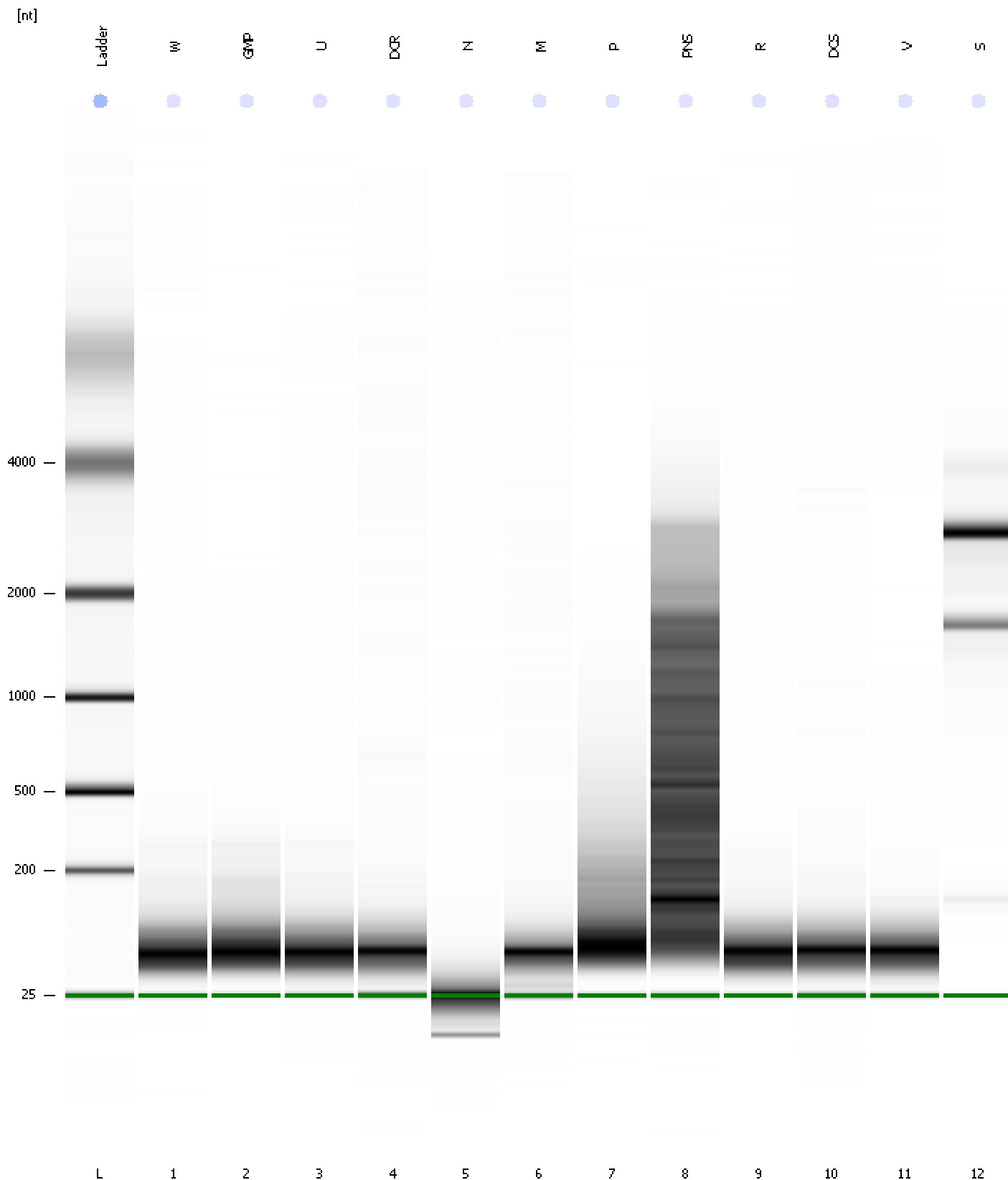
Fragment table for sample 12 : S

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,542	1,902	151.4	17.3
25S	2,289	3,527	350.8	40.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Gel Image

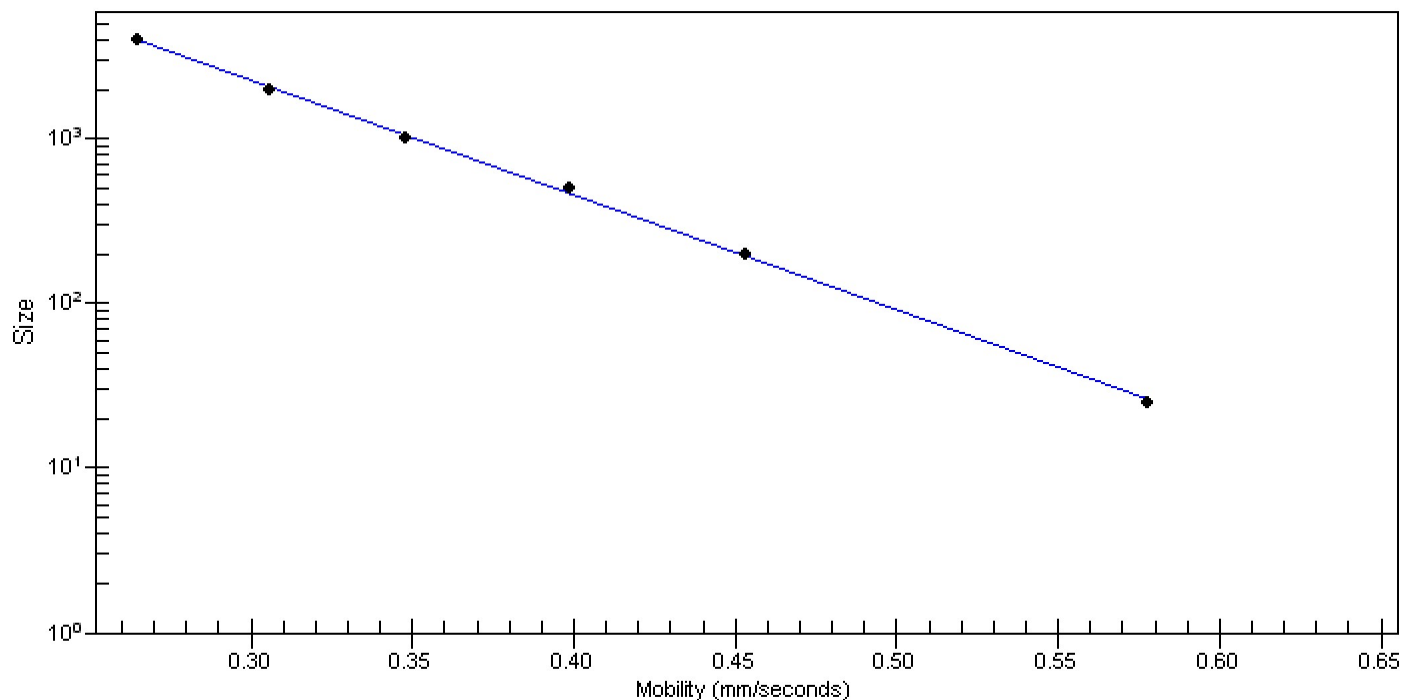


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_001.xad

Created: 4/3/2014 9:10:01 AM
Modified: 4/3/2014 9:33:51 AM

Curves

Standard Curve



Assay Class: Plant RNA Nano Created: 4/3/2014 9:10:01 AM
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-03\2014-04-03_001.xad Modified: 4/3/2014 9:33:51 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		4/3/2014 9:33:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-03\2014-04-03_001.xad)		Instrument	Run		4/3/2014 9:10:06 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/3/2014 9:10:06 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/3/2014 9:10:06 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/3/2014 9:10:06 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/3/2014 9:10:06 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/3/2014 9:10:06 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/3/2014 9:10:06 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1