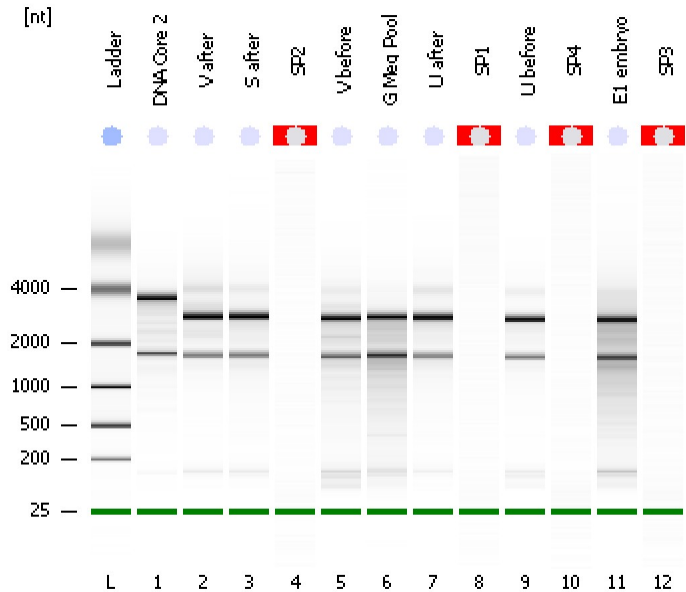


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
Modified: 4/14/2014 11:59:11 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

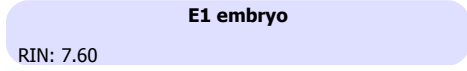
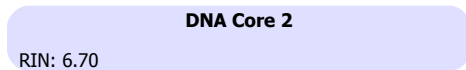
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

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\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
 Modified: 4/14/2014 11:59:11 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
DNA Core 2		✓	RIN: 6.70	
V after		✓	RIN: 9.50	
S after		✓	RIN: 9.10	
SP2		✓	RIN N/A	
V before		✓	RIN: 8.60	
G Meg Pool		✓	RIN: 7.50	
U after		✓	RIN: 9.40	
SP1		✓	RIN N/A	
U before		✓	RIN: 9.60	
SP4		✓	RIN N/A	
E1 embryo		✓	RIN: 7.60	
SP3		✓	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\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
Modified: 4/14/2014 11:59:11 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/ 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

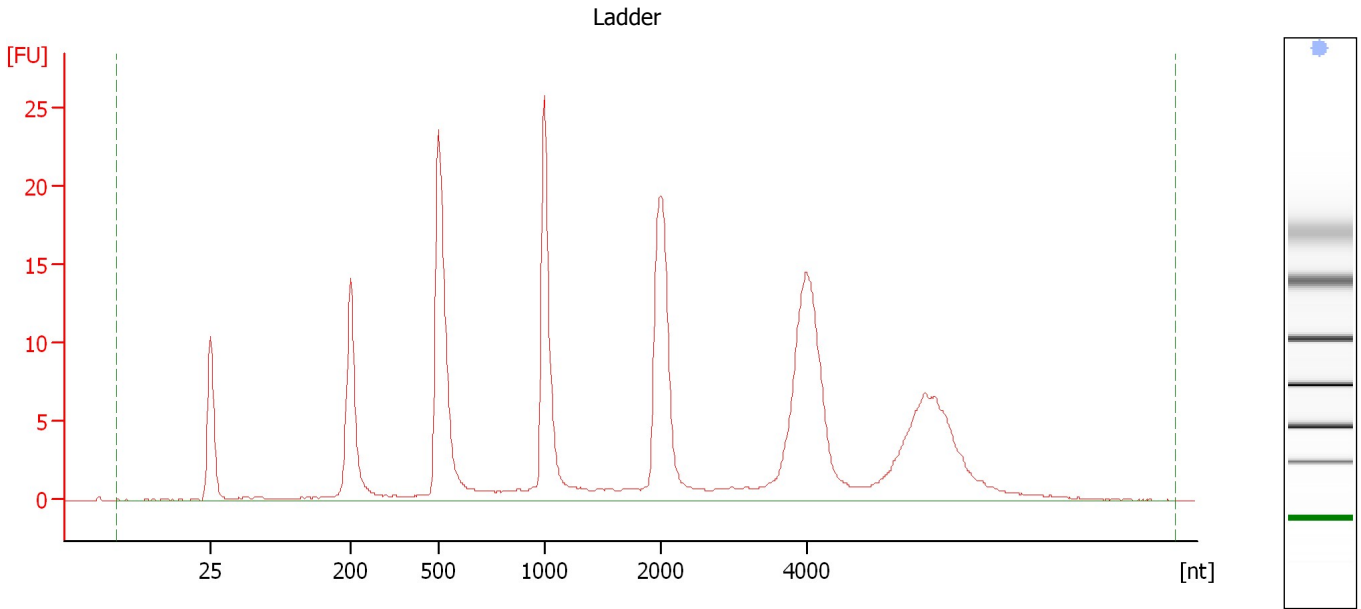
Ladder

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\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
Modified: 4/14/2014 11:59:11 AM

Electropherogram Summary



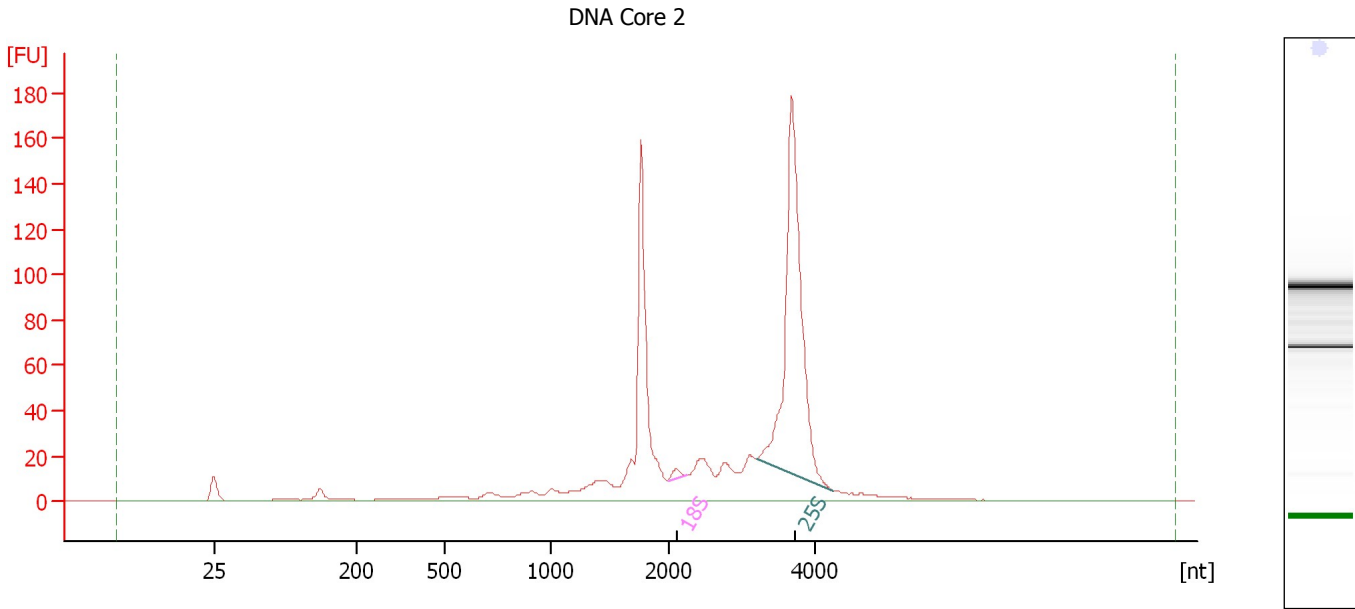
Overall Results for Ladder

RNA Area:	223.4	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\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
Modified: 4/14/2014 11:59:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : DNA Core 2

RNA Area: 794.9 RNA Integrity Number (RIN): 6.7 (B.02.08)
RNA Concentration: 534 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 79.9 Result Flagging Label: RIN: 6.70

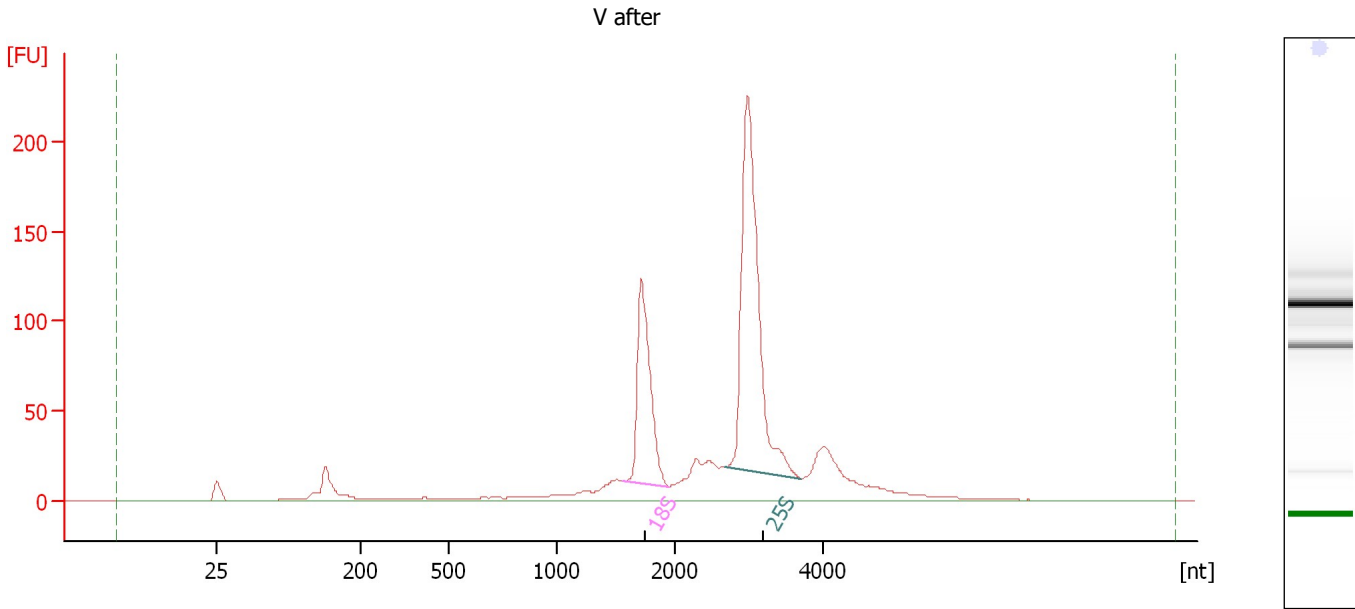
Fragment table for sample 1 : DNA Core 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,995	2,240	3.4	0.4
25S	3,187	4,252	270.3	34.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : V after

RNA Area: 1,100.6 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 739 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.1 Result Flagging Label: RIN: 9.50

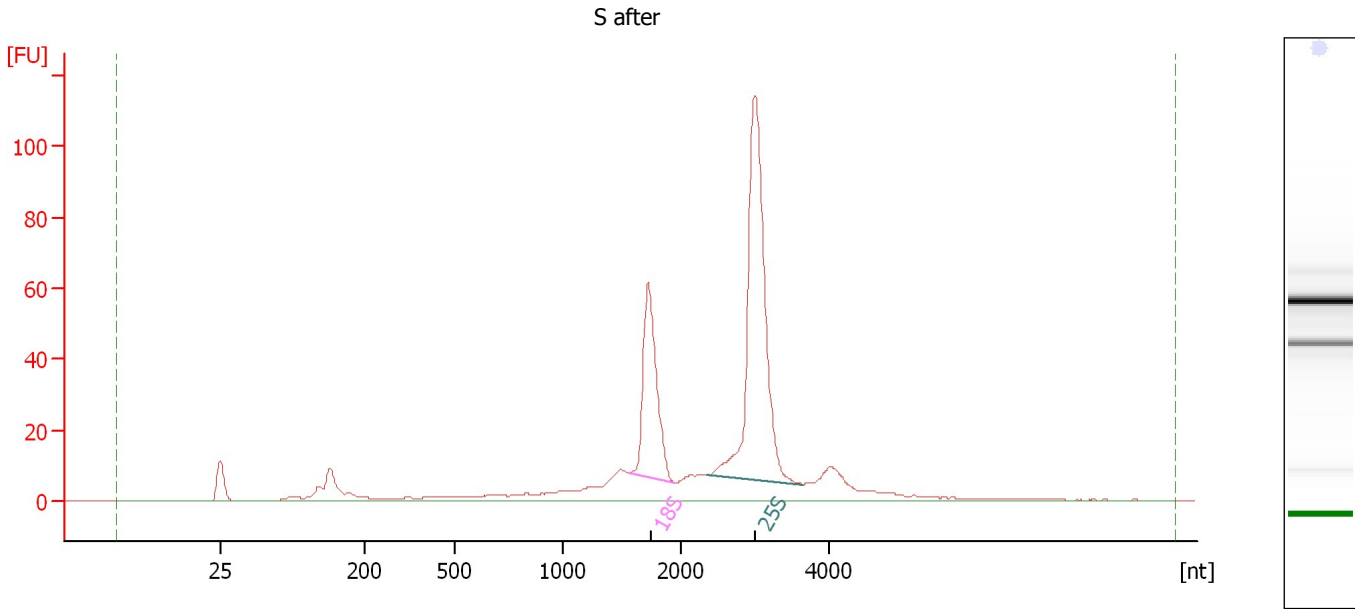
Fragment table for sample 2 : V after

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,555	1,953	175.3	15.9
25S	2,678	3,721	376.4	34.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : S after

RNA Area: 541.7 RNA Integrity Number (RIN): 9.1 (B.02.08)
RNA Concentration: 364 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.3 Result Flagging Label: RIN: 9.10

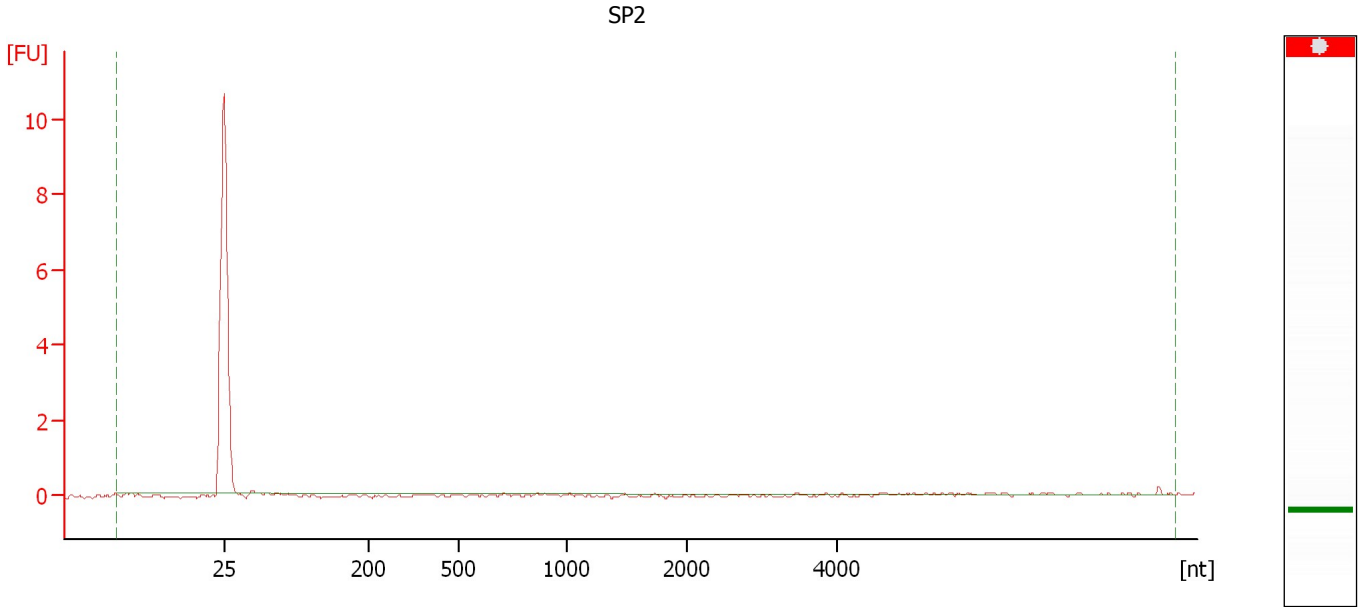
Fragment table for sample 3 : S after

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,561	1,947	87.8	16.2
25S	2,347	3,644	200.7	37.1


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
Modified: 4/14/2014 11:59:11 AM

Electropherogram Summary Continued ...



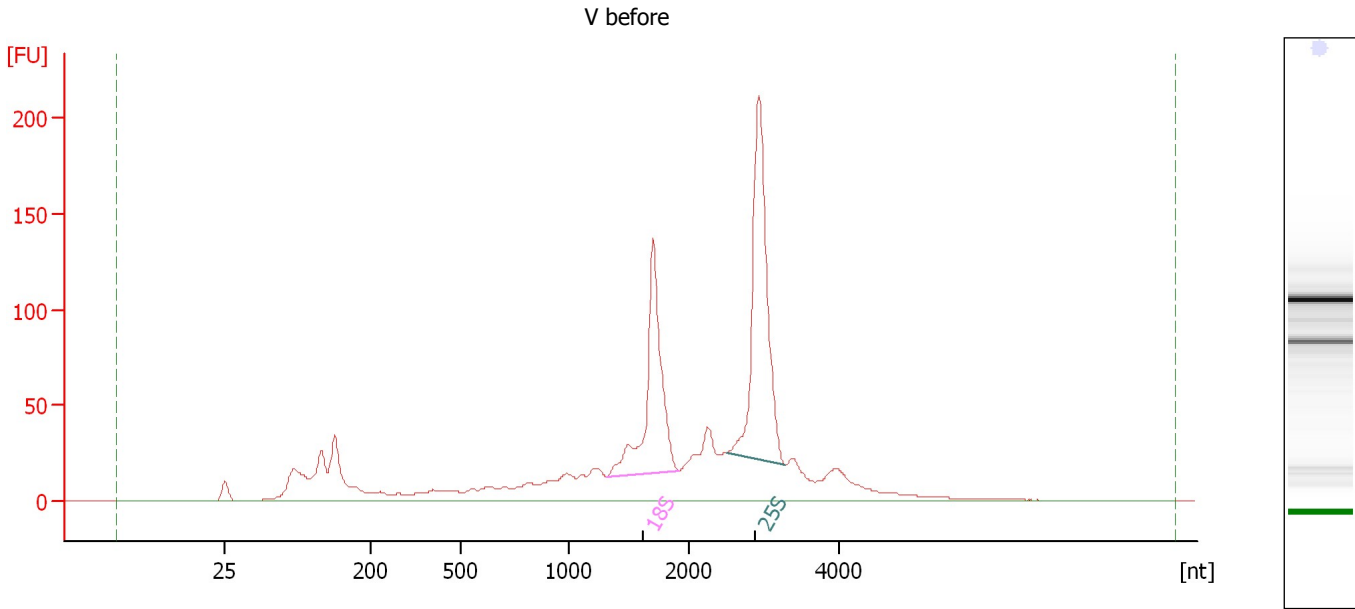
Overall Results for sample 4 : SP2

RNA Area:	0.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	0 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\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
Modified: 4/14/2014 11:59:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : V before

RNA Area: 1,413.5 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 949 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 8.60

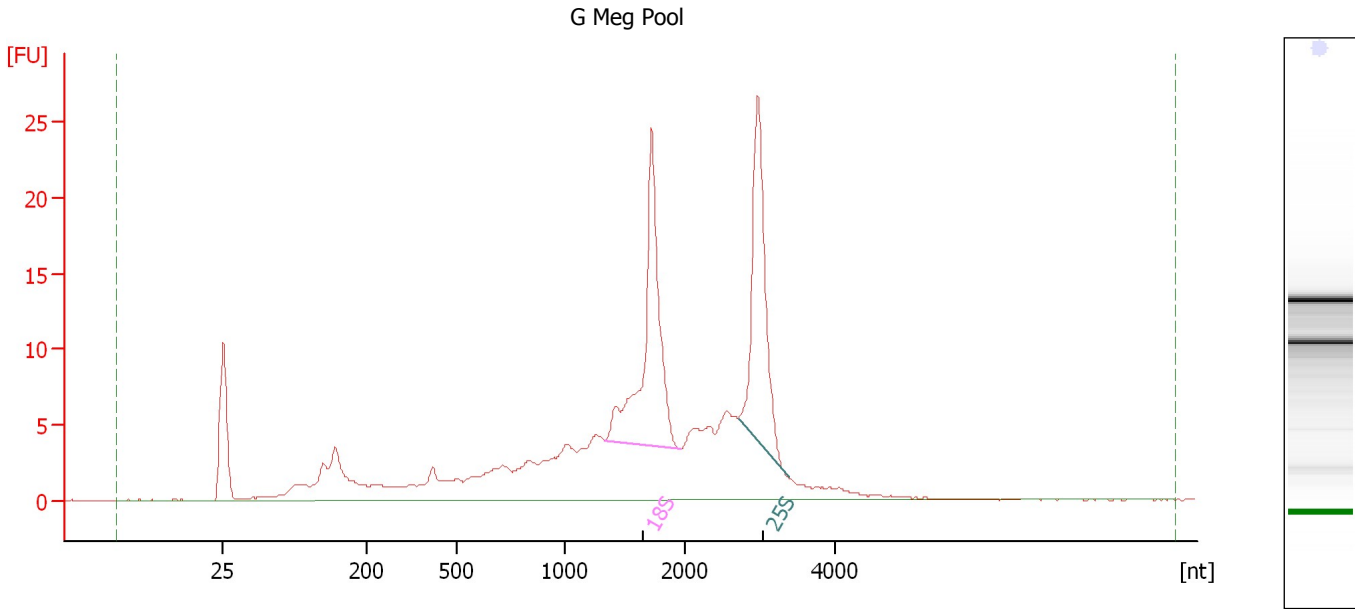
Fragment table for sample 5 : V before

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,319	1,916	214.2	15.1
25S	2,508	3,294	294.1	20.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
Modified: 4/14/2014 11:59:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : G Meg Pool

RNA Area: 232.4 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 156 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN: 7.50

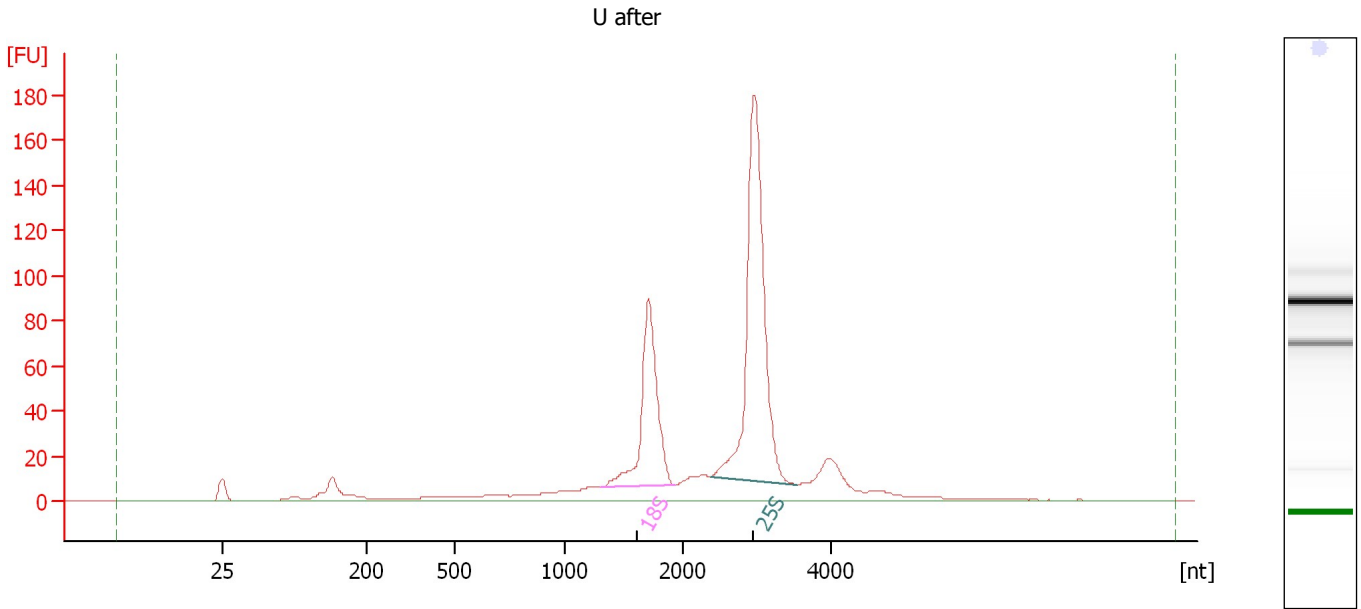
Fragment table for sample 6 : G Meg Pool

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,332	1,958	38.3	16.5
25S	2,722	3,382	31.5	13.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
Modified: 4/14/2014 11:59:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : U after

RNA Area: 838.4 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 563 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.0 Result Flagging Label: RIN: 9.40

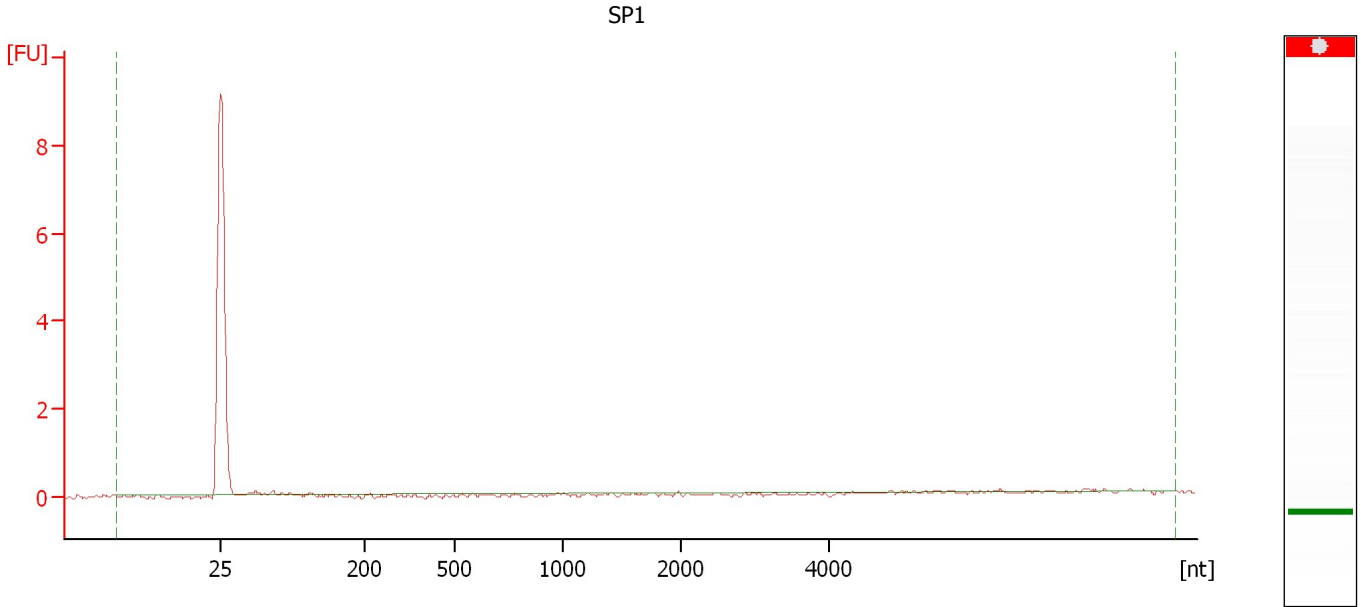
Fragment table for sample 7 : U after

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,302	1,939	155.9	18.6
25S	2,363	3,541	314.1	37.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
Modified: 4/14/2014 11:59:11 AM

Electropherogram Summary Continued ...



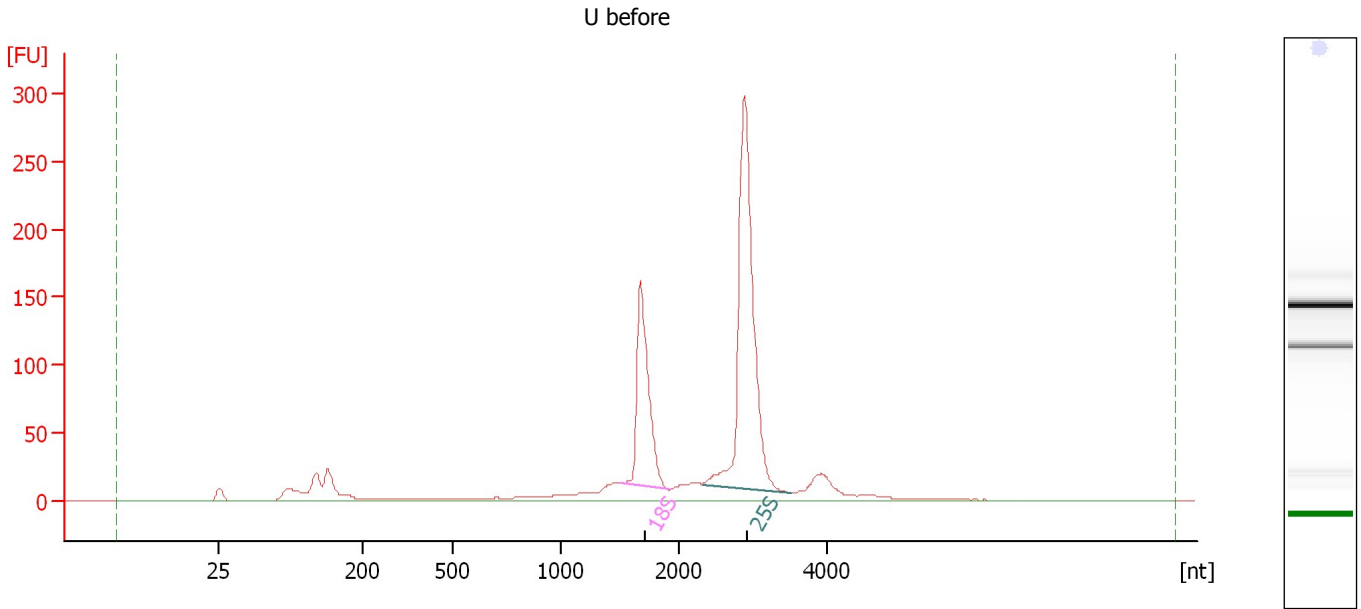
Overall Results for sample 8 : SP1

RNA Area:	0.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	0 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\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
Modified: 4/14/2014 11:59:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : U before

RNA Area: 1,148.5 RNA Integrity Number (RIN): 9.6 (B.02.08)
RNA Concentration: 771 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.2 Result Flagging Label: RIN: 9.60

Fragment table for sample 9 : U before

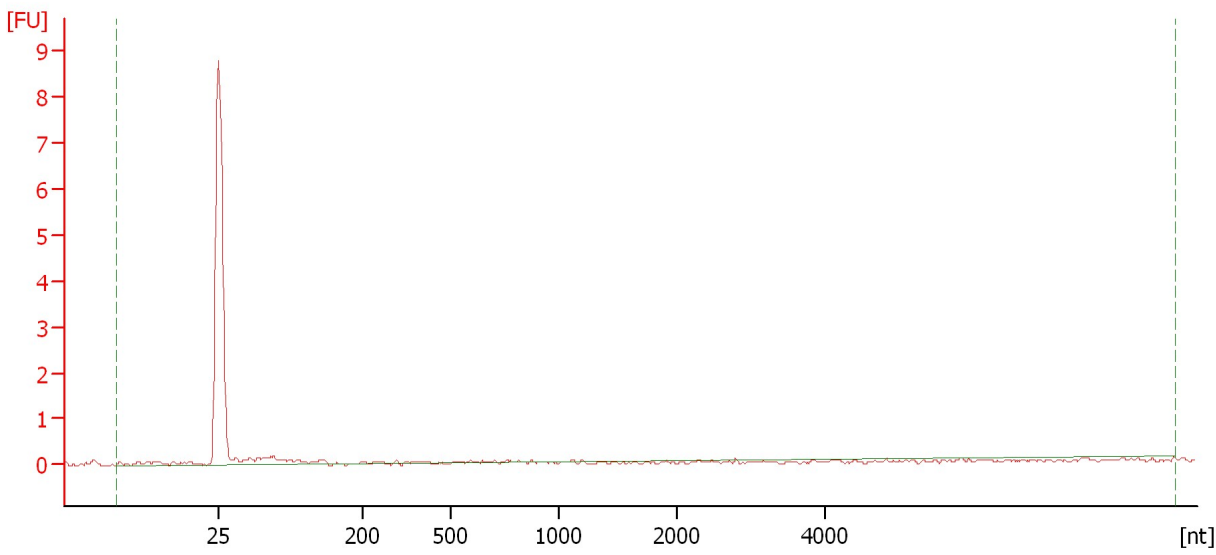
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,505	1,910	210.3	18.3
25S	2,318	3,501	456.2	39.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
Modified: 4/14/2014 11:59:11 AM

Electropherogram Summary Continued ...

SP4



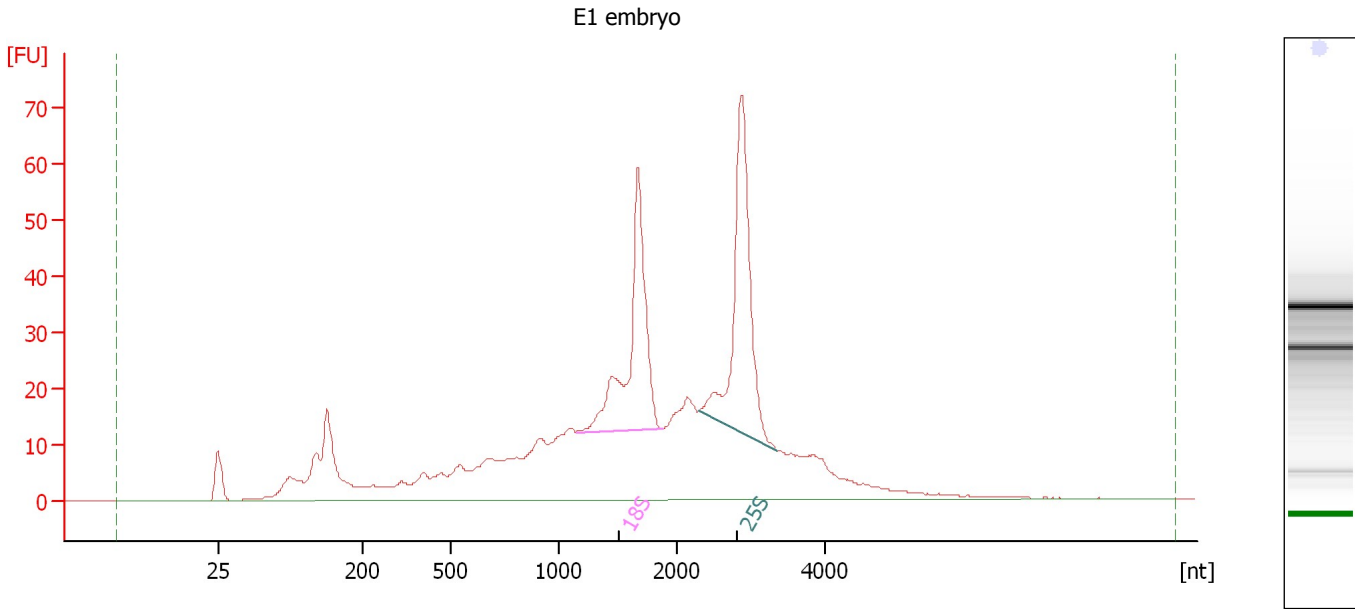
Overall Results for sample 10 : SP4

RNA Area:	2.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2 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\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
Modified: 4/14/2014 11:59:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : E1 embryo

RNA Area: 776.0 RNA Integrity Number (RIN): 7.6 (B.02.08)
RNA Concentration: 521 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.1 Result Flagging Label: RIN: 7.60

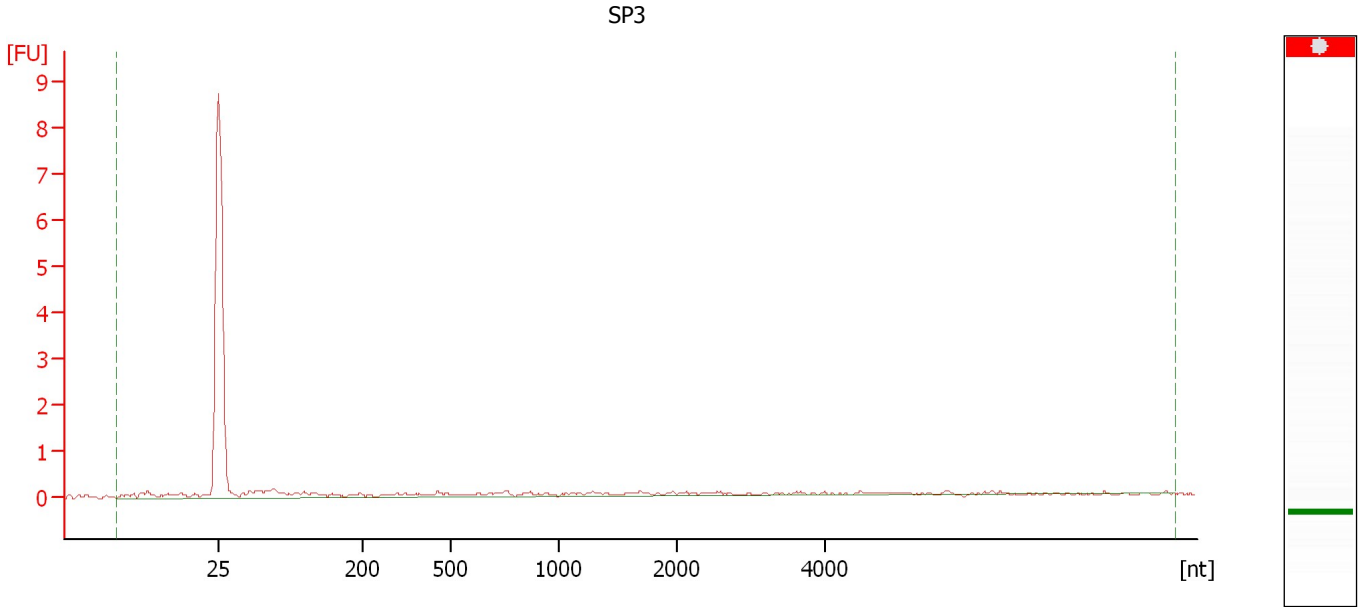
Fragment table for sample 11 : E1 embryo

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,151	1,872	93.7	12.1
25S	2,288	3,343	104.4	13.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
Modified: 4/14/2014 11:59:11 AM

Electropherogram Summary Continued ...



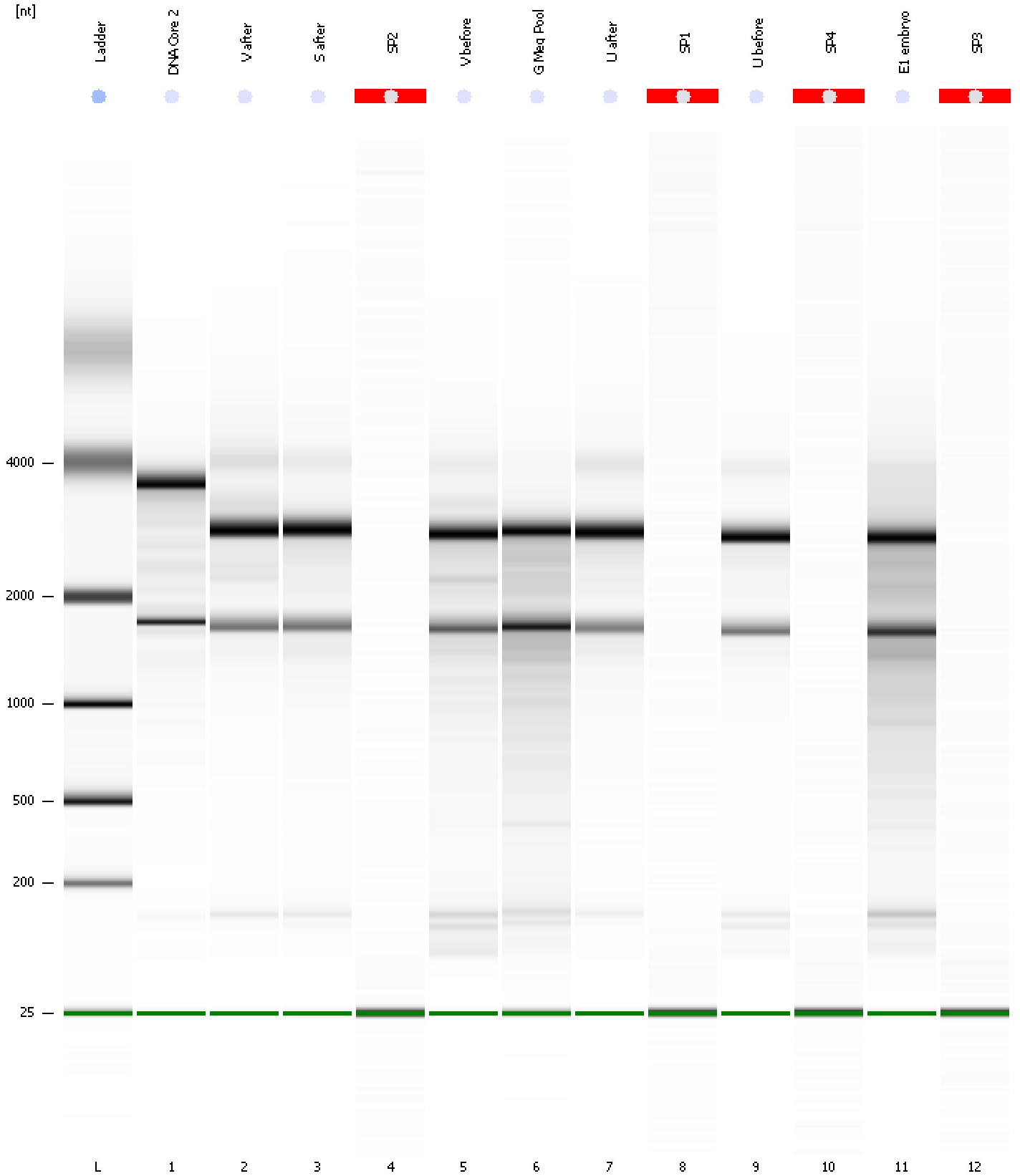
Overall Results for sample 12 : SP3

RNA Area:	5.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	4 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\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
Modified: 4/14/2014 11:59:11 AM

Gel Image



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14_002.xad

Created: 4/14/2014 11:35:21 AM
 Modified: 4/14/2014 11:59:11 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		4/14/2014 11:59:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-14\2014-04-14_002.xad)		Instrument	Run		4/14/2014 11:35:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/14/2014 11:35:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/14/2014 11:35:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/14/2014 11:35:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/14/2014 11:35:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/14/2014 11:35:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/14/2014 11:35:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1