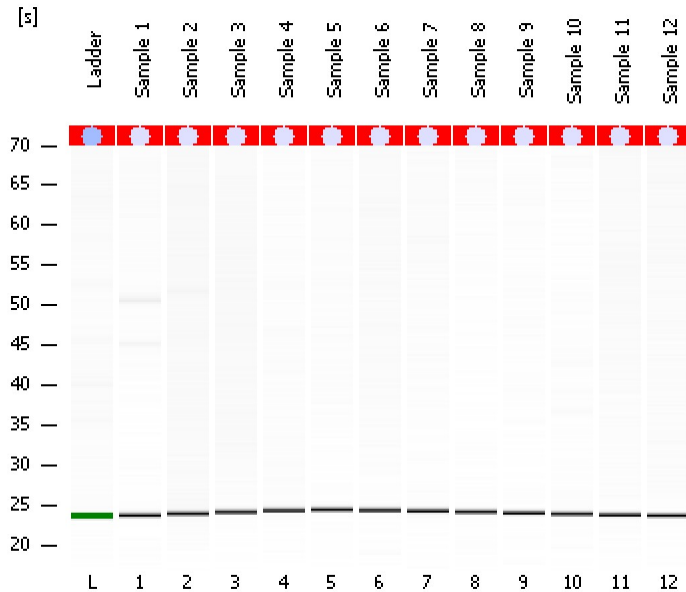


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 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

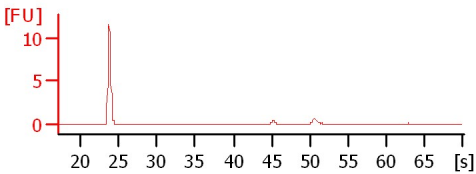
Assay Class: Plant RNA Nano
Version: 1.3
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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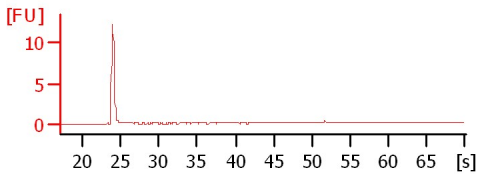
Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

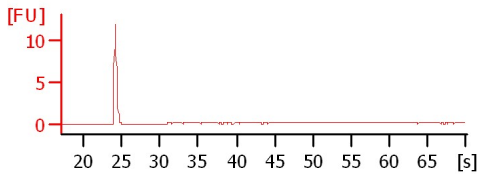
Sample 1
RIN:7



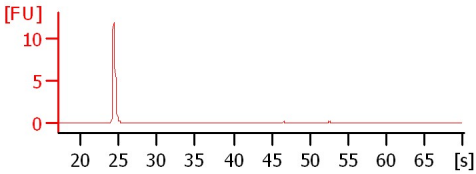
Sample 2
RIN:1



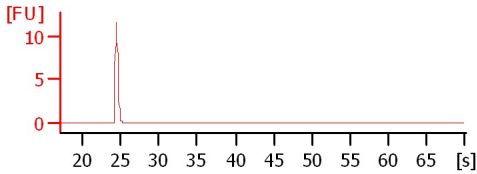
Sample 3
RIN:1



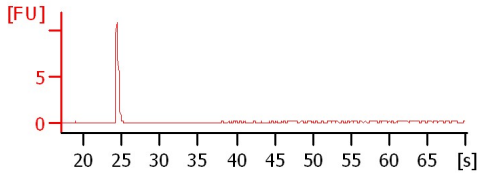
Sample 4
RIN:1



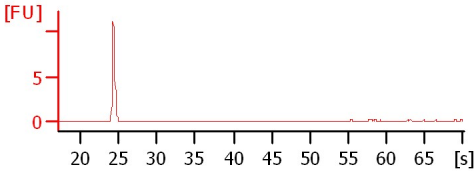
Sample 5
RIN: 1.20



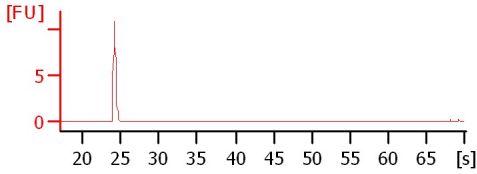
Sample 6
RIN: 1.10



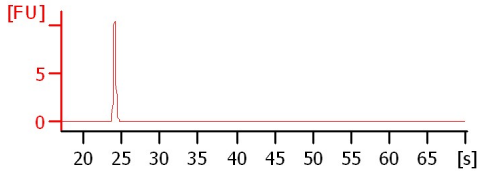
Sample 7
RIN: 1.10



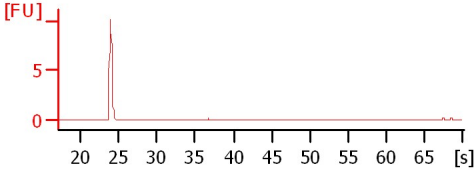
Sample 8
RIN: 1.10



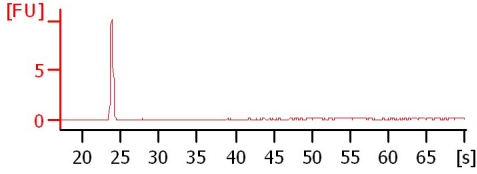
Sample 9
RIN:1



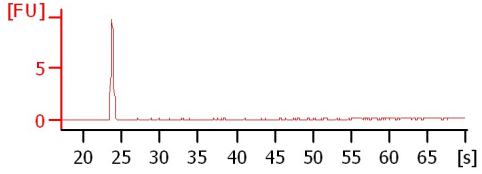
Sample 10
RIN:1



Sample 11
RIN:1



Sample 12
RIN:1



Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN:7	
Sample 2		✓	RIN:1	
Sample 3		✓	RIN:1	
Sample 4		✓	RIN:1	
Sample 5		✓	RIN: 1.20	
Sample 6		✓	RIN: 1.10	
Sample 7		✓	RIN: 1.10	
Sample 8		✓	RIN: 1.10	
Sample 9		✓	RIN:1	
Sample 10		✓	RIN:1	
Sample 11		✓	RIN:1	
Sample 12		✓	RIN:1	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 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/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

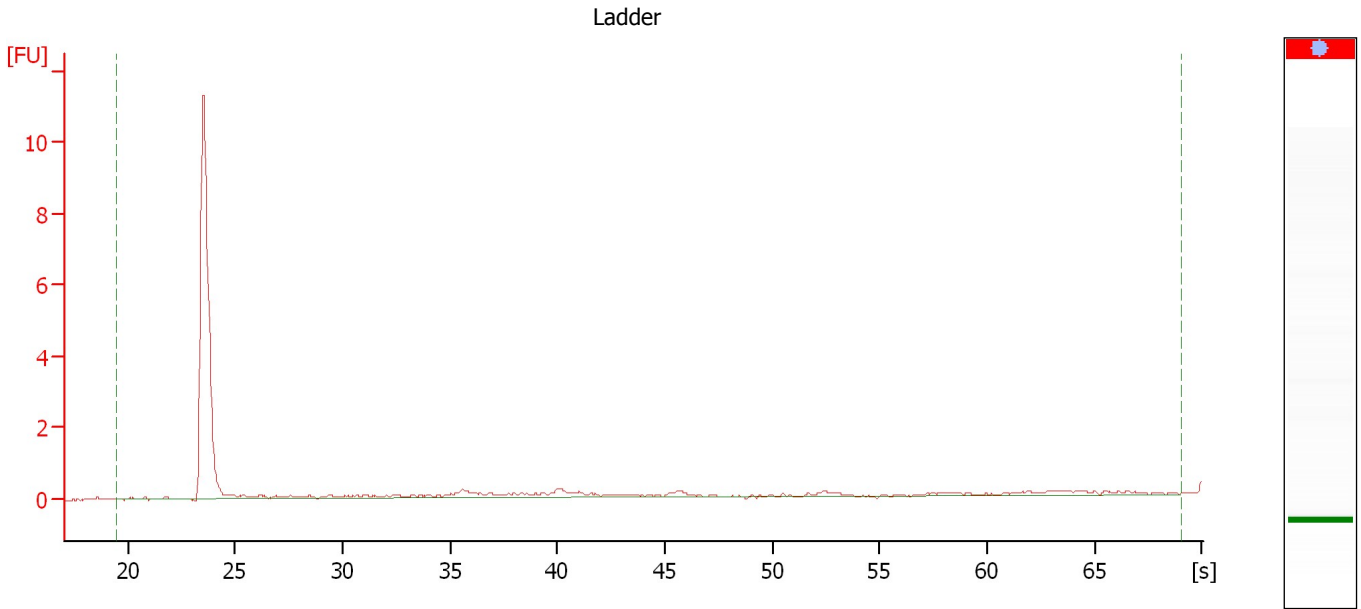
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Electropherogram Summary



Overall Results for Ladder

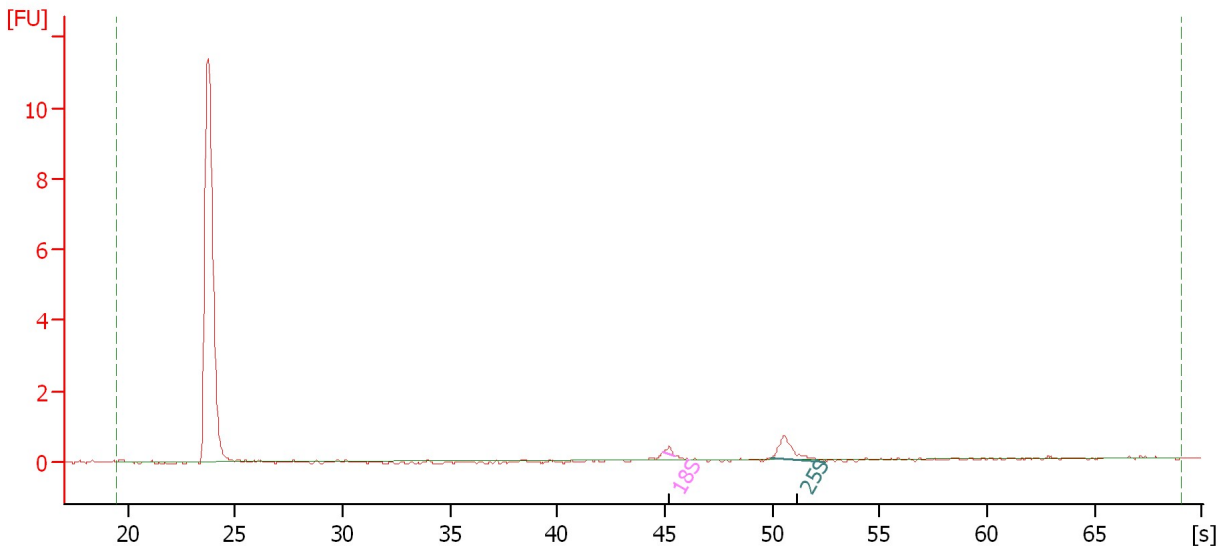
RNA Area:	6.2	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Electropherogram Summary Continued ...

Sample 1



Overall Results for sample 1 : Sample 1

RNA Area: 22.2 RNA Integrity Number (RIN): 7 (B.02.08)
RNA Concentration: 537 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 7.1 Result Flagging Label: RIN:7

Fragment table for sample 1 : Sample 1

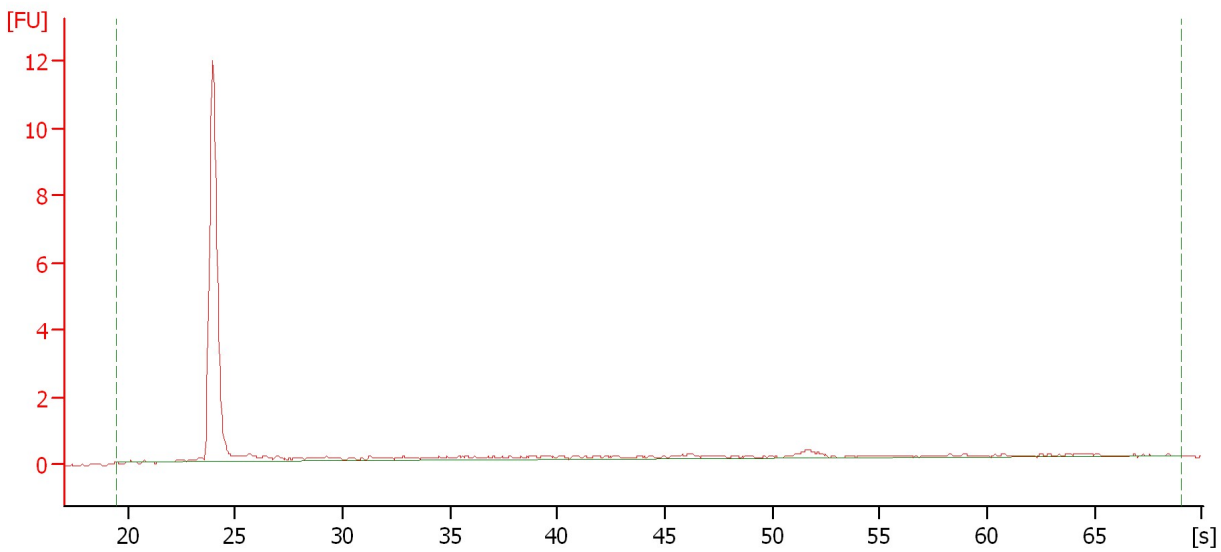
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	0.1	0.6
25S	0	0	1.0	4.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Electropherogram Summary Continued ...

Sample 2



Overall Results for sample 2 : Sample 2

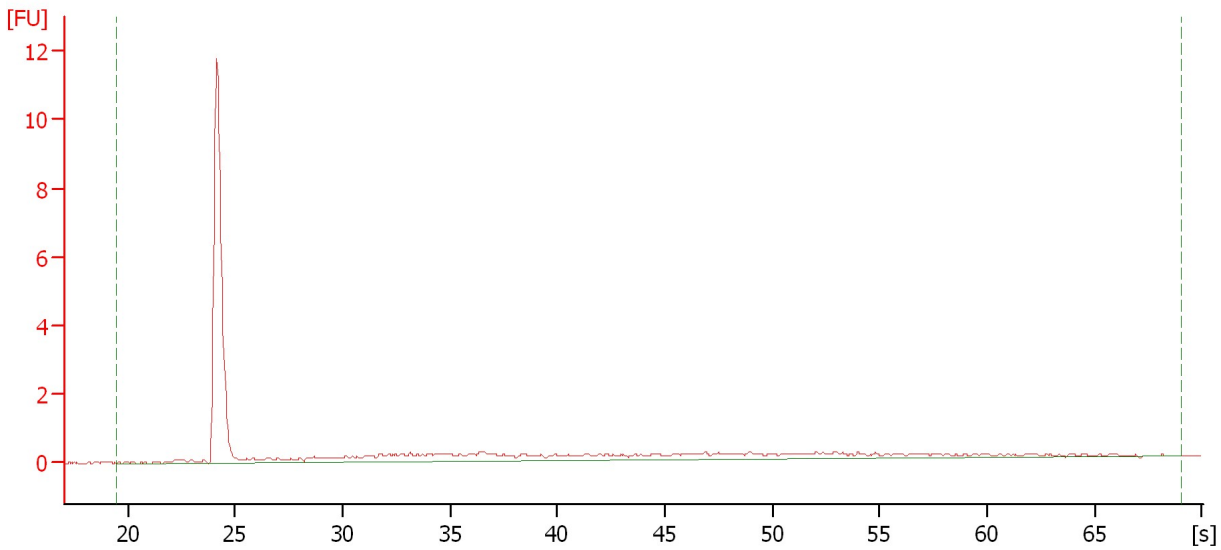
RNA Area:	28.4	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	688 ng/ μ l	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Electropherogram Summary Continued ...

Sample 3



Overall Results for sample 3 : Sample 3

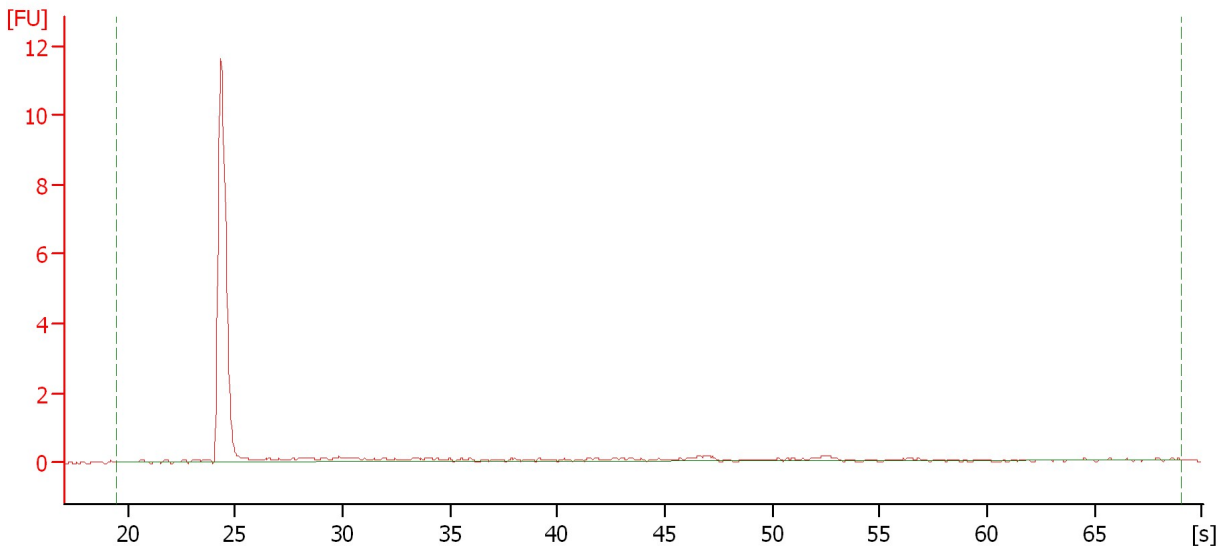
RNA Area:	32.7	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	792 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 4 : Sample 4

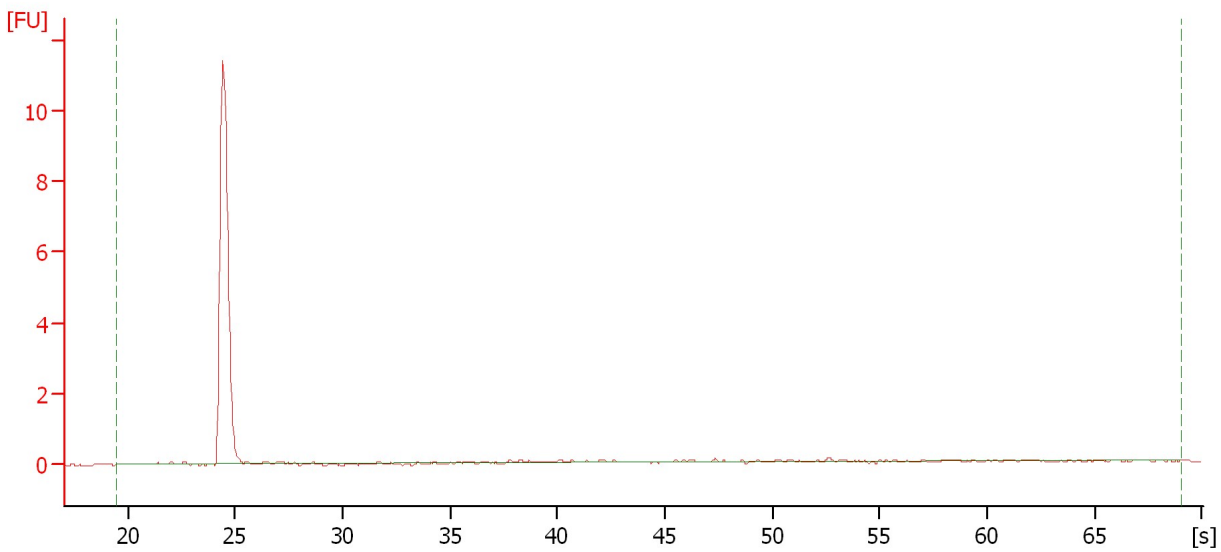
RNA Area:	23.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	560 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Electropherogram Summary Continued ...

Sample 5



Overall Results for sample 5 : Sample 5

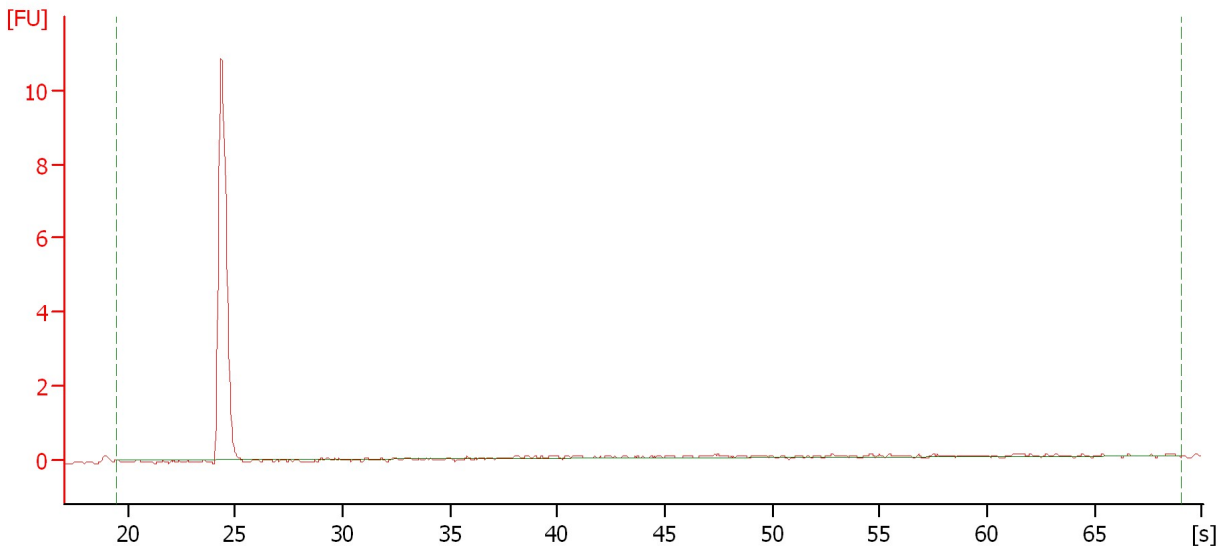
RNA Area:	22.0	RNA Integrity Number (RIN):	1.2 (B.02.08)
RNA Concentration:	532 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.20

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Electropherogram Summary Continued ...

Sample 6



Overall Results for sample 6 : Sample 6

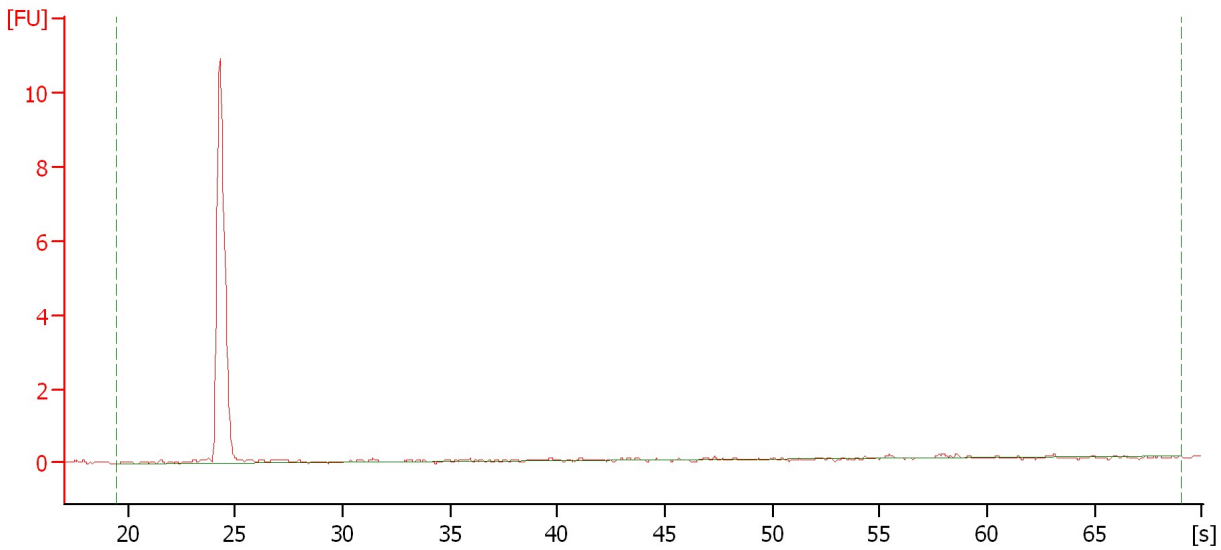
RNA Area:	21.4	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	518 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Electropherogram Summary Continued ...

Sample 7



Overall Results for sample 7 : Sample 7

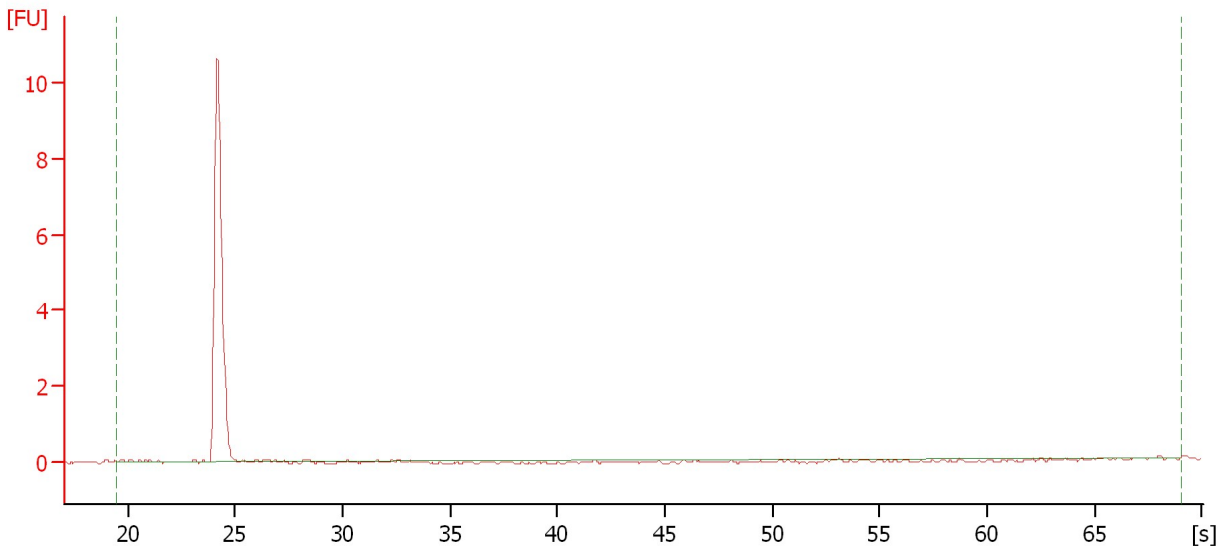
RNA Area:	21.8	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	528 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Electropherogram Summary Continued ...

Sample 8



Overall Results for sample 8 : Sample 8

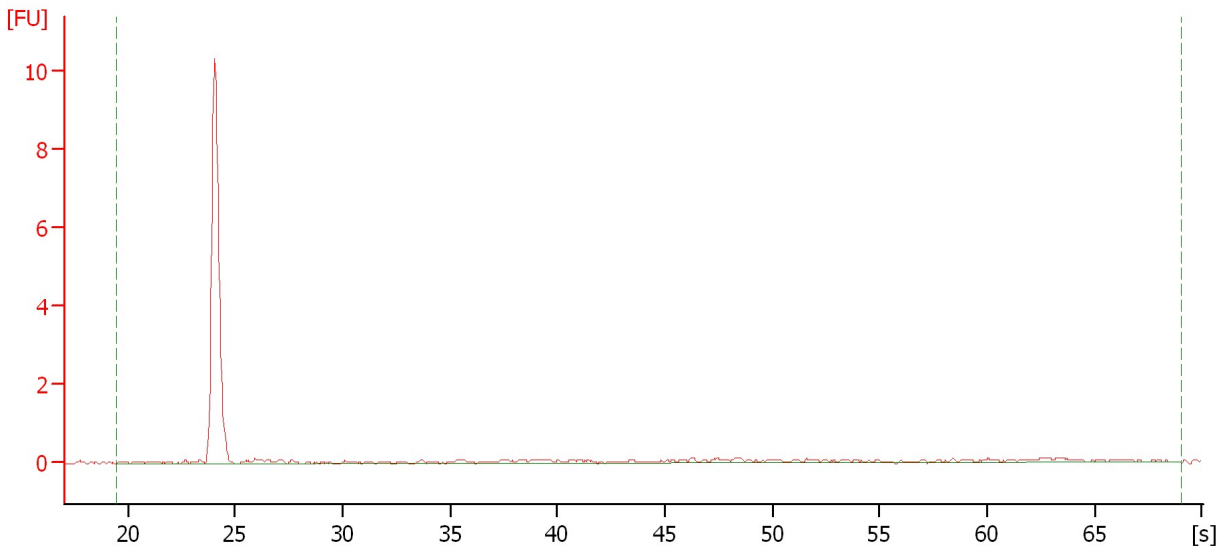
RNA Area:	18.4	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	446 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

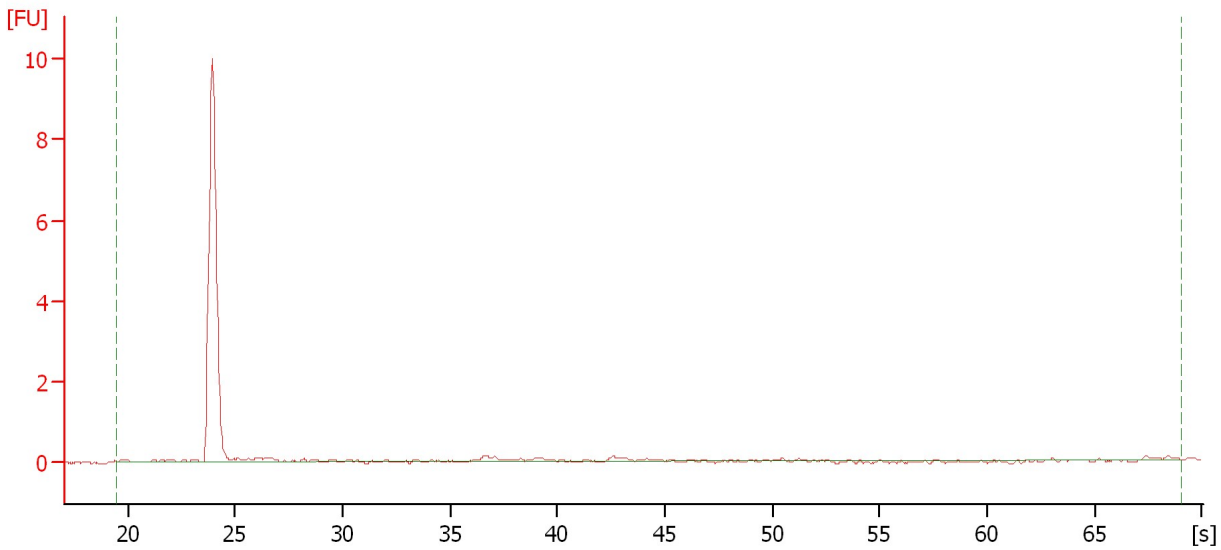
RNA Area:	21.5	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	520 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Electropherogram Summary Continued ...

Sample 10



Overall Results for sample 10 : Sample 10

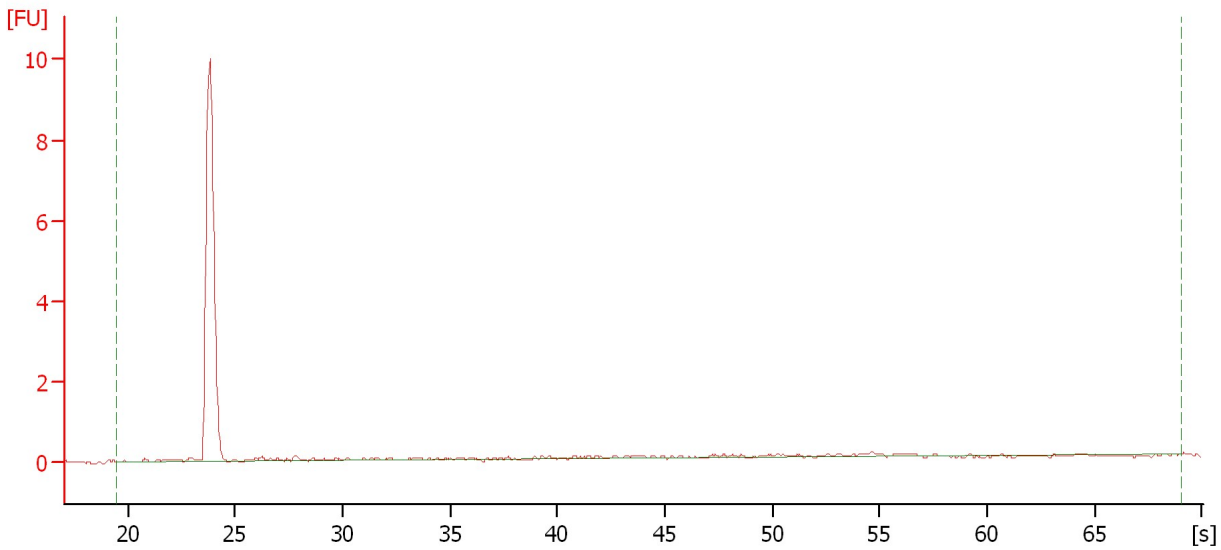
RNA Area:	18.3	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	442 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Electropherogram Summary Continued ...

Sample 11



Overall Results for sample 11 : Sample 11

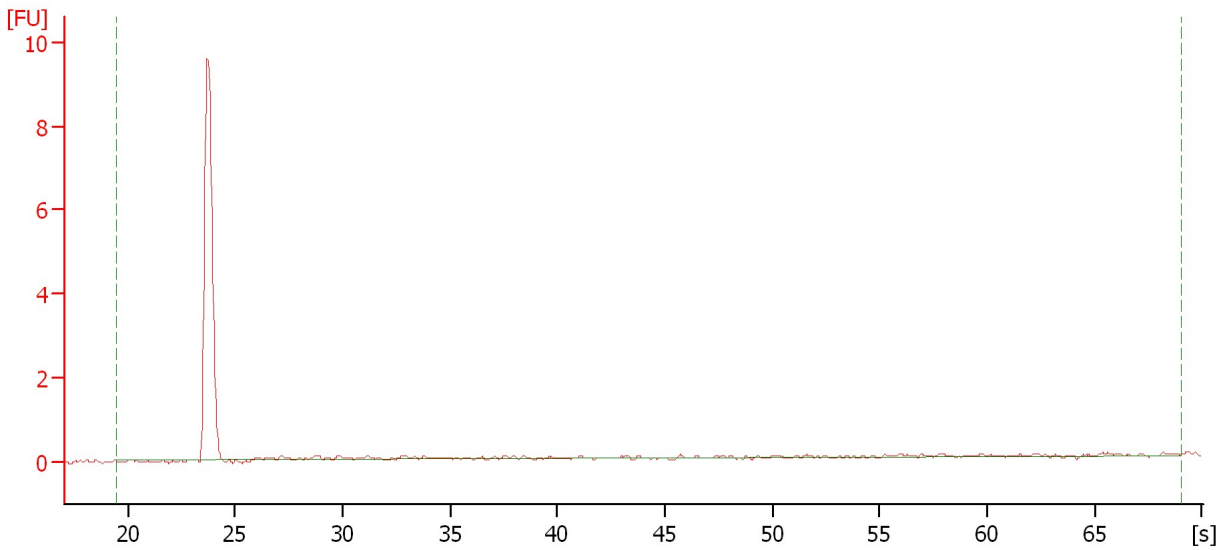
RNA Area:	19.3	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	467 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Electropherogram Summary Continued ...

Sample 12



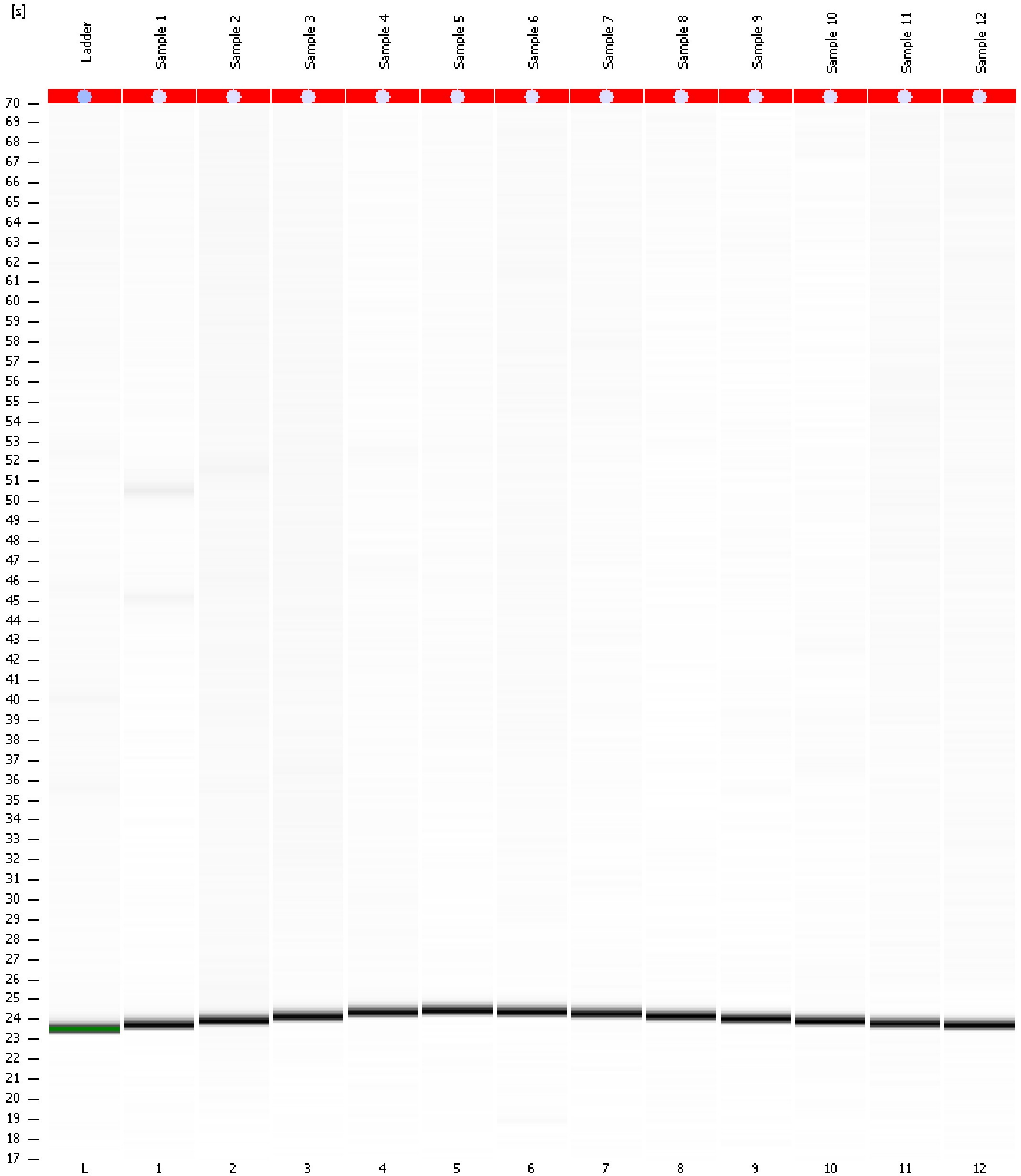
Overall Results for sample 12 : Sample 12

RNA Area:	17.7	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	427 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad

Created: 3/9/2016 3:44:58 PM
Modified: 3/9/2016 4:08:46 PM

Gel Image



Assay Class: Plant RNA Nano Created: 3/9/2016 3:44:58 PM
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad Modified: 3/9/2016 4:08:46 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		3/9/2016 4:08:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-03-09\2016-03-09_002.xad)		Instrument	Run		3/9/2016 3:45:04 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/9/2016 3:45:04 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/9/2016 3:45:04 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/9/2016 3:45:04 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/9/2016 3:45:04 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/9/2016 3:45:04 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/9/2016 3:45:04 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1