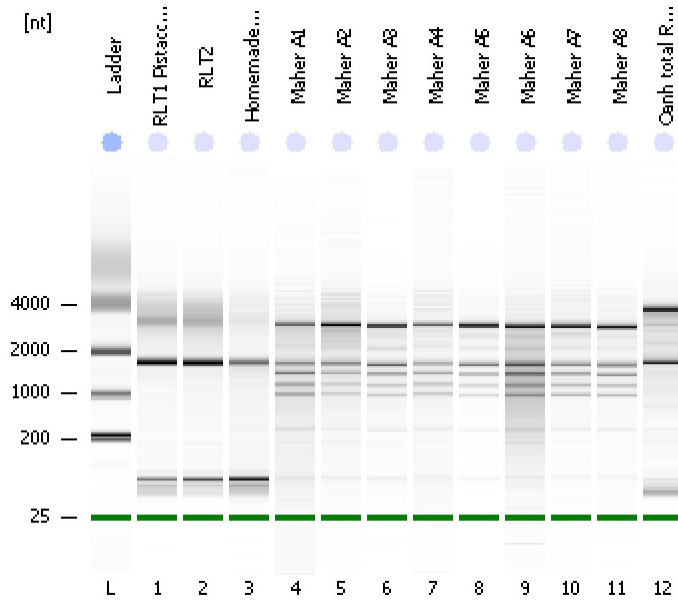


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
Modified: 4/16/2014 2:04:40 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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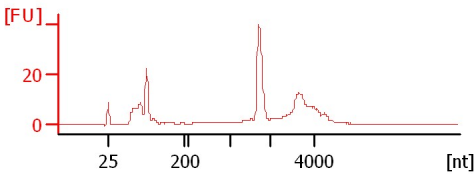
Chip Information:

Chip Lot #:

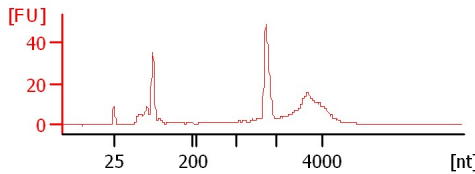
Reagent Kit Lot #:

Chip Comments:

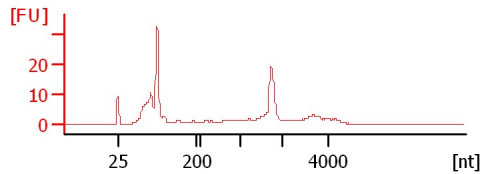
RLT1 Pistacchio
RIN: 8.70



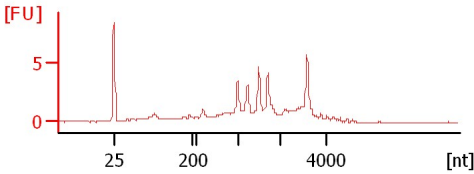
RLT2
RIN: 8.40



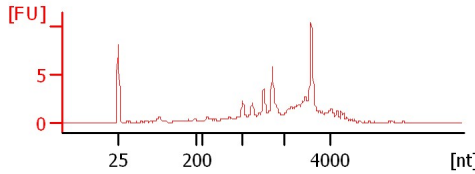
HomemadeThio4
RIN: 6.80



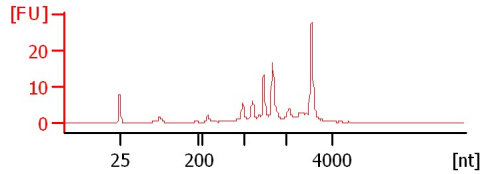
Maher A1
RIN: 6



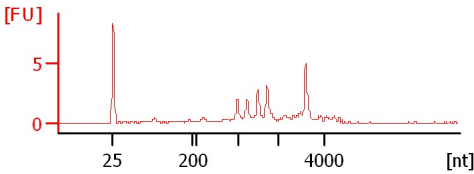
Maher A2
RIN: 7.40



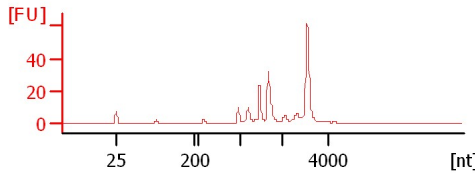
Maher A3
RIN: 7.50



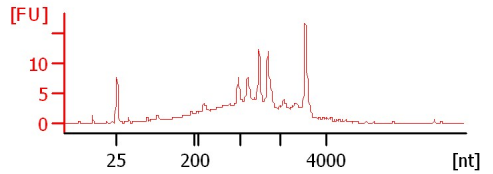
Maher A4
RIN: 7.30



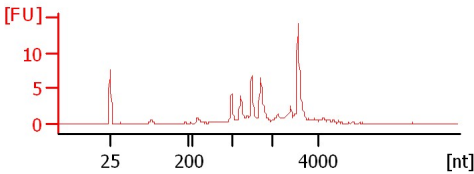
Maher A5
RIN: 8.10



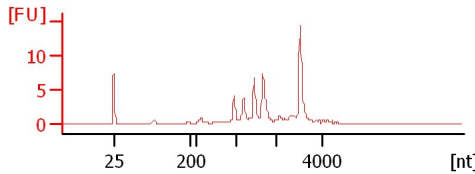
Maher A6
RIN: 5.80



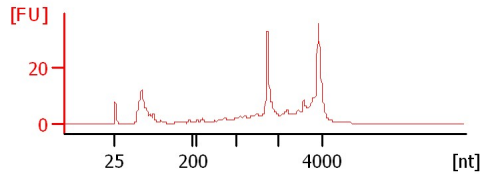
Maher A7
RIN: 7.80



Maher A8
RIN: 7.80



Oanh total RNA pool
RIN: 4.80



Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
Modified: 4/16/2014 2:04:40 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
RLT1 Pistacchio		✓	RIN: 8.70	
RLT2		✓	RIN: 8.40	
HomemadeThio4		✓	RIN: 6.80	
Maher A1		✓	RIN:6	
Maher A2		✓	RIN: 7.40	
Maher A3		✓	RIN: 7.50	
Maher A4		✓	RIN: 7.30	
Maher A5		✓	RIN: 8.10	
Maher A6		✓	RIN: 5.80	
Maher A7		✓	RIN: 7.80	
Maher A8		✓	RIN: 7.80	
Oanh total RNA pool		✓	RIN: 4.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
Modified: 4/16/2014 2:04:40 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

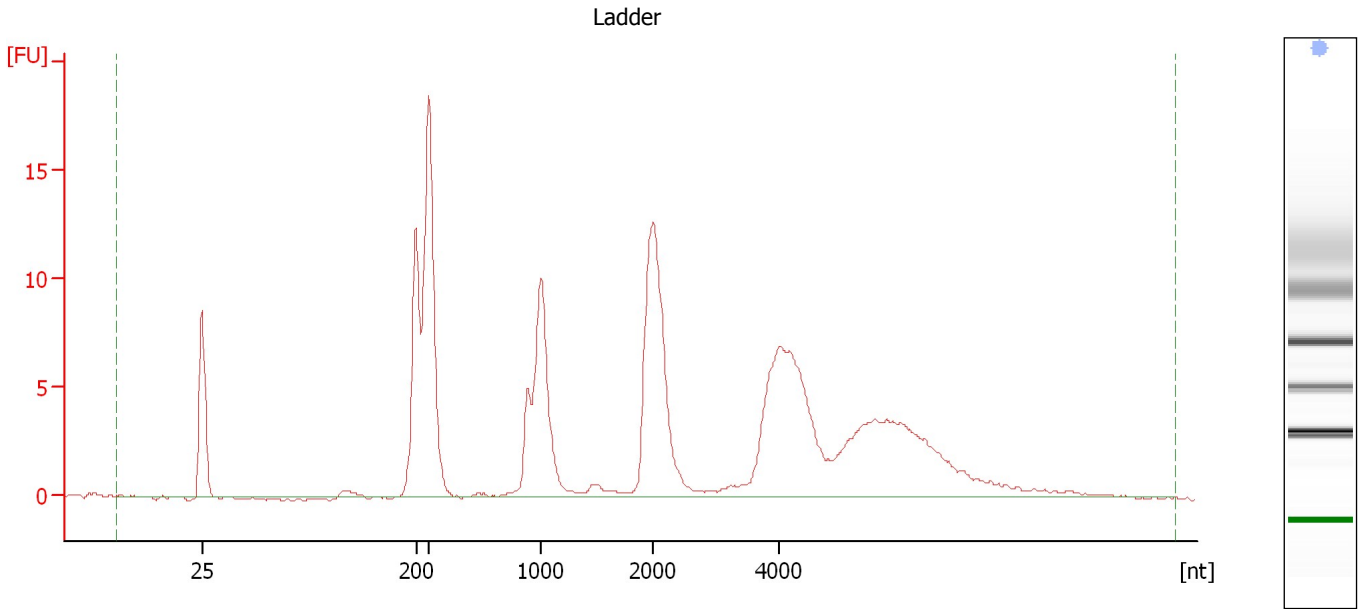
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
Modified: 4/16/2014 2:04:40 PM

Electropherogram Summary



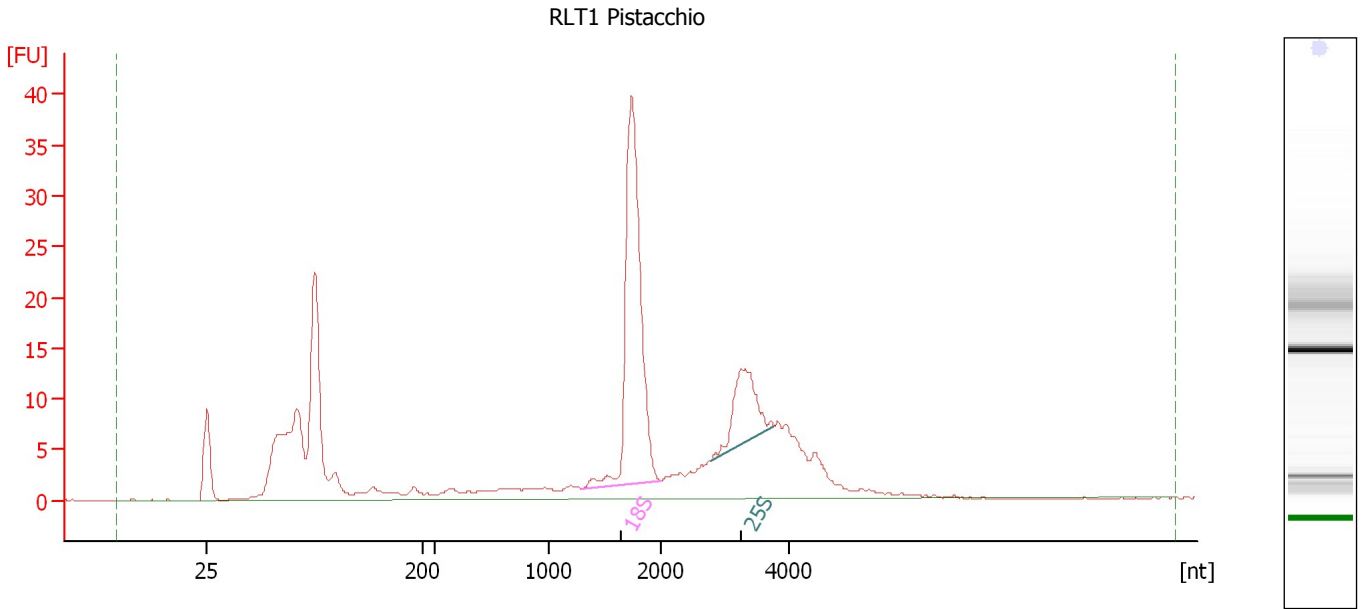
Overall Results for Ladder

RNA Area:	169.3	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\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
Modified: 4/16/2014 2:04:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : RLT1 Pistacchio

RNA Area: 287.1 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 254 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.3 Result Flagging Label: RIN: 8.70

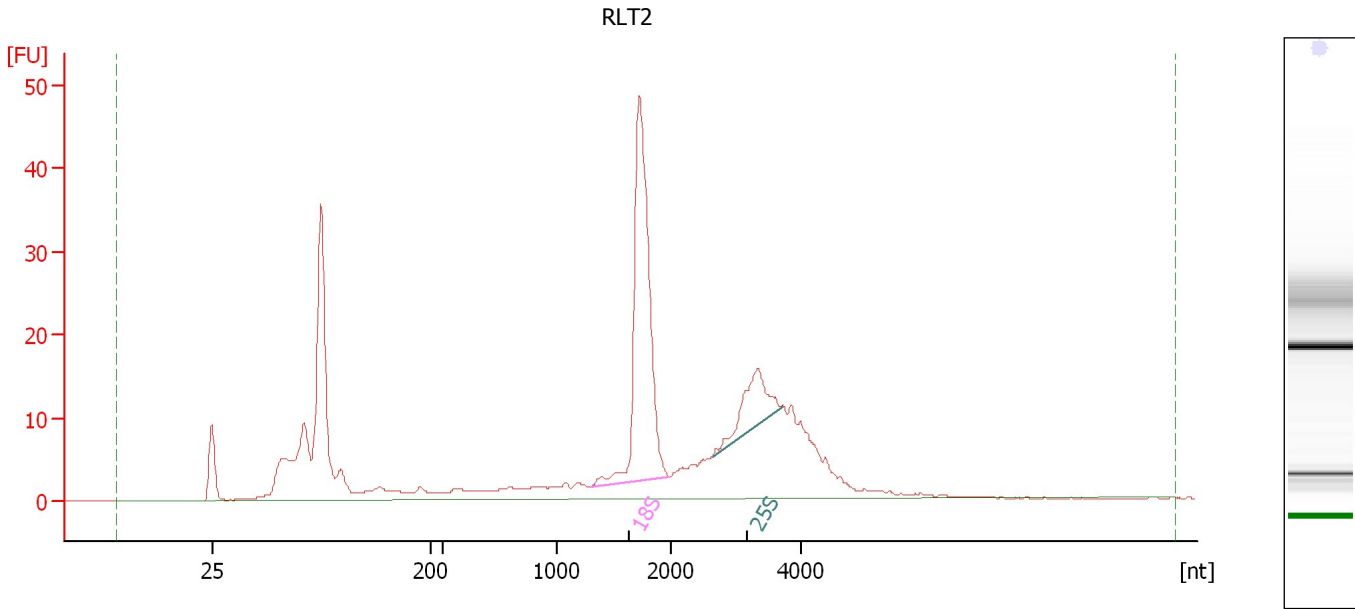
Fragment table for sample 1 : RLT1 Pistacchio

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,295	1,994	68.9	24.0
25S	2,779	3,754	18.3	6.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
Modified: 4/16/2014 2:04:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : RLT2

RNA Area: 370.4 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 328 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.2 Result Flagging Label: RIN: 8.40

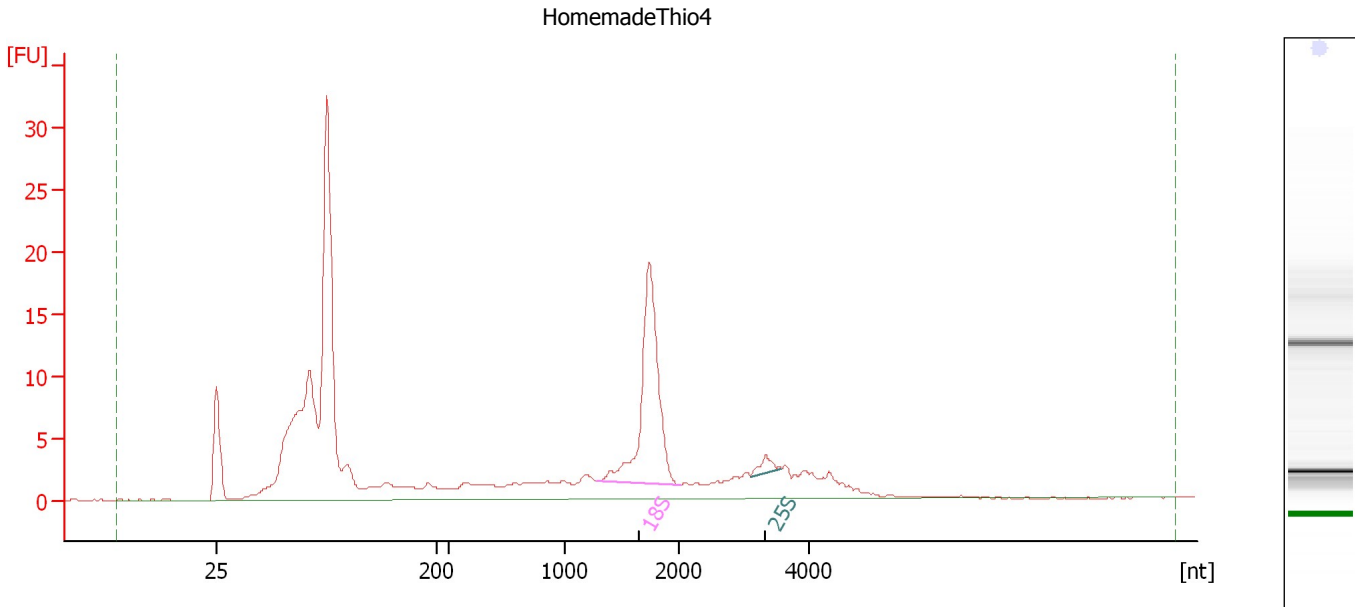
Fragment table for sample 2 : RLT2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,289	1,980	84.3	22.8
25S	2,630	3,744	18.4	5.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
Modified: 4/16/2014 2:04:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : HomemadeThio4

RNA Area: 222.5 RNA Integrity Number (RIN): 6.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 197 ng/μl
rRNA Ratio [25s / 18s]: 0.0
Result Flagging Color:
Result Flagging Label: RIN: 6.80

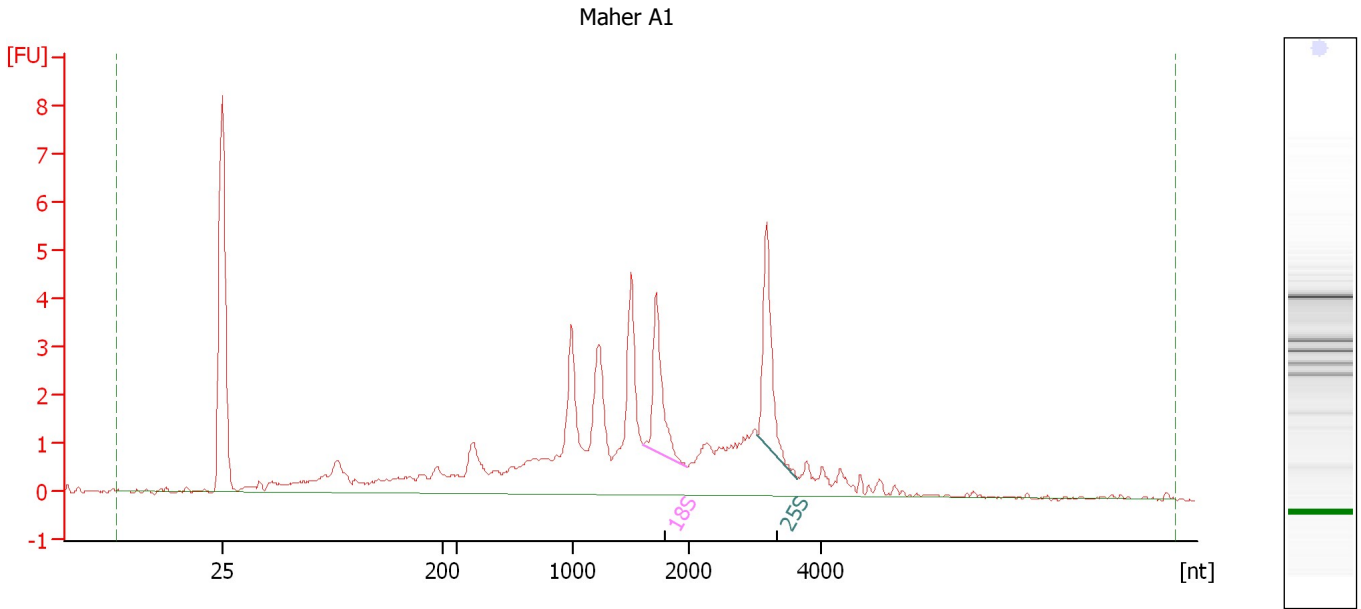
Fragment table for sample 3 : HomemadeThio4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,289	2,005	36.0	16.2
25S	3,093	3,572	1.7	0.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
Modified: 4/16/2014 2:04:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Maher A1

RNA Area:	57.5	RNA Integrity Number (RIN):	6 (B.02.08)
RNA Concentration:	51 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.2	Result Flagging Label:	RIN:6

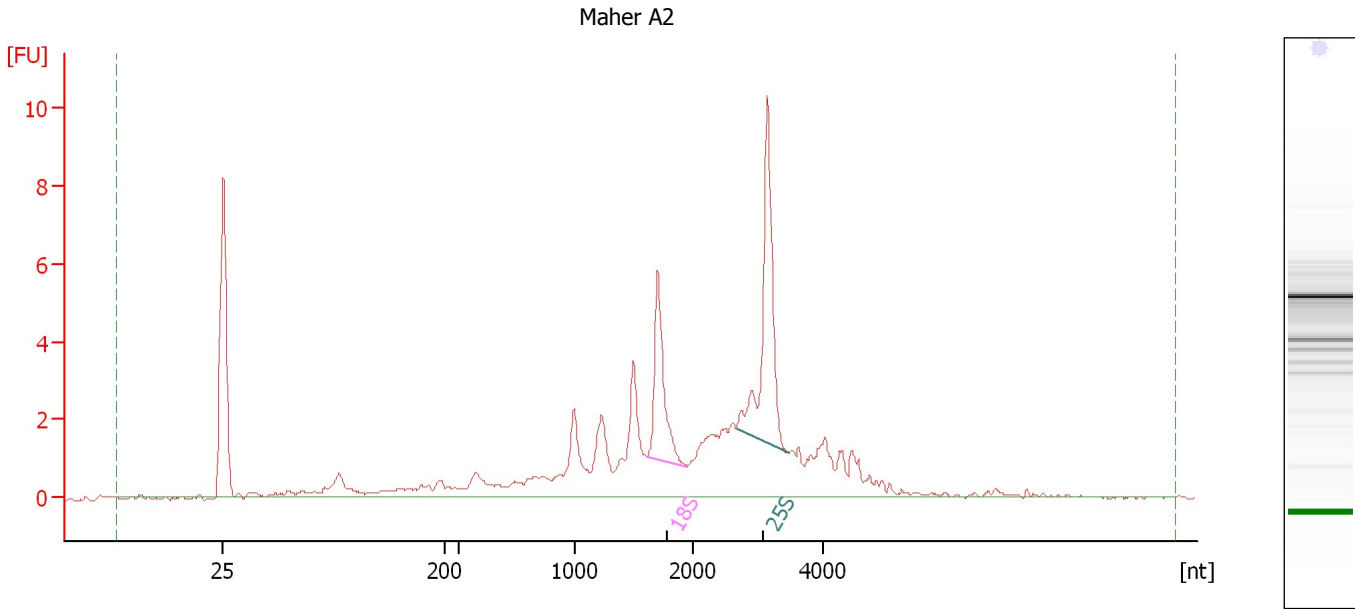
Fragment table for sample 4 : Maher A1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,604	1,970	3.6	6.3
25S	3,025	3,646	4.2	7.3

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
Modified: 4/16/2014 2:04:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Maher A2

RNA Area:	65.0	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	58 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN: 7.40

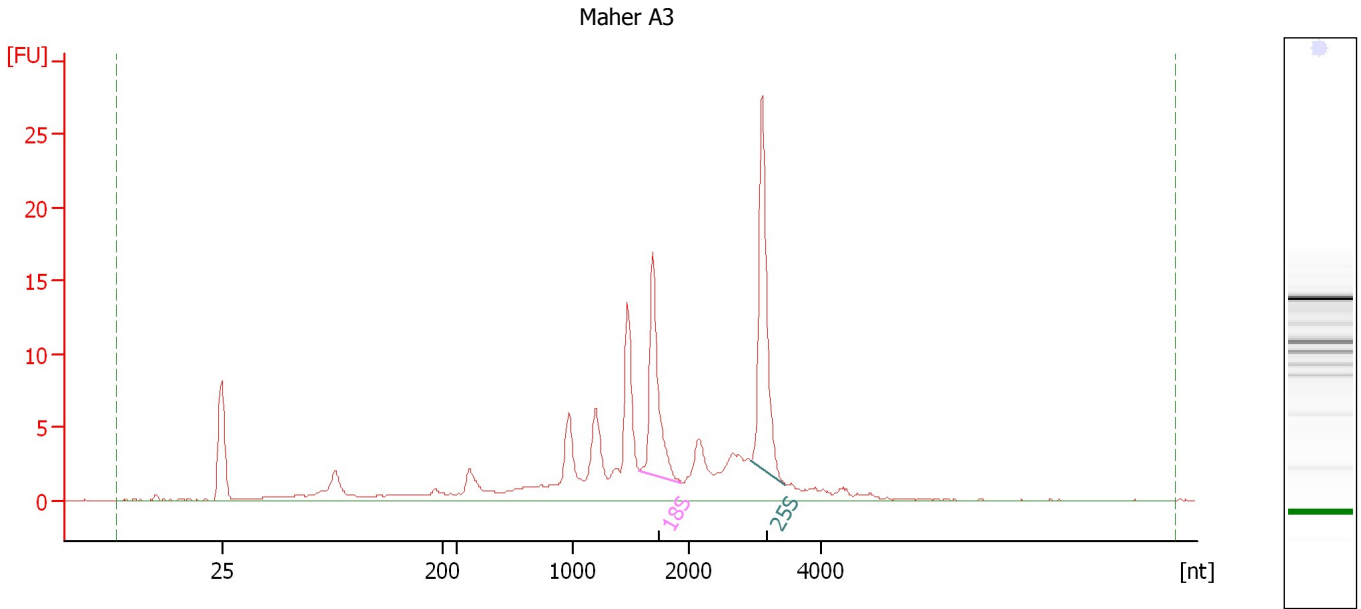
Fragment table for sample 5 : Maher A2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,962	5.2	7.9
25S	2,683	3,465	9.4	14.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
Modified: 4/16/2014 2:04:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Maher A3

RNA Area:	133.8	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	119 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 7.50

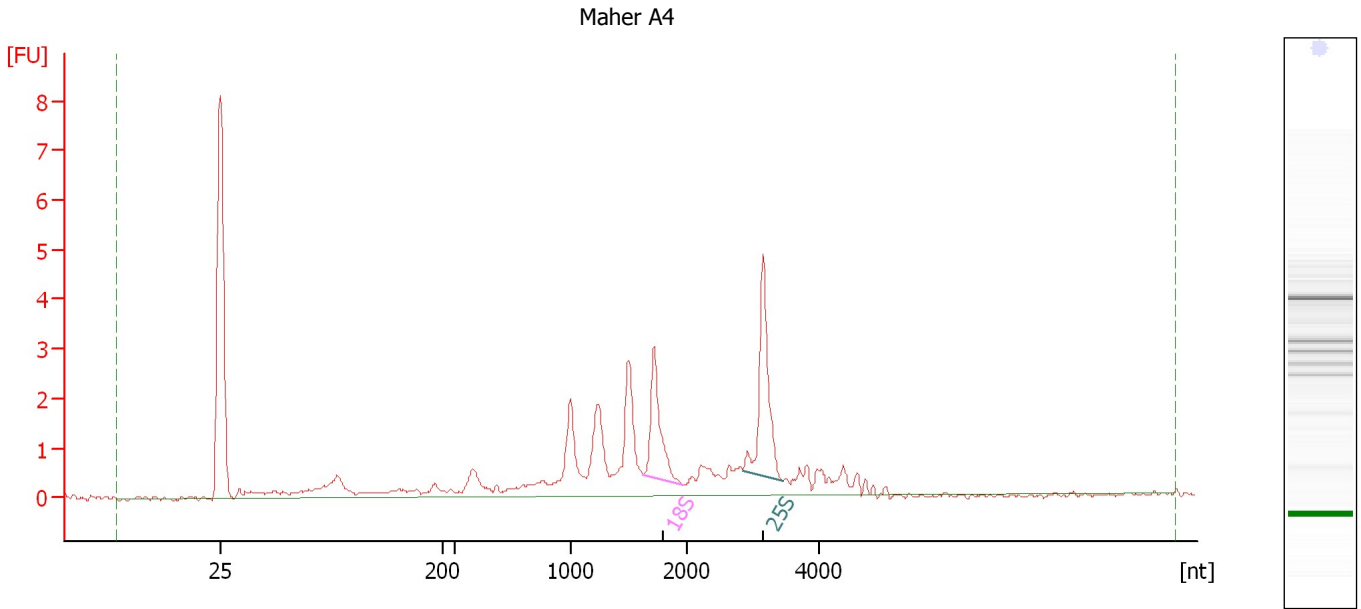
Fragment table for sample 6 : Maher A3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	1,925	15.8	11.8
25S	2,944	3,466	22.5	16.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
Modified: 4/16/2014 2:04:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Maher A4

RNA Area:	32.7	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	29 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.5	Result Flagging Label:	RIN: 7.30

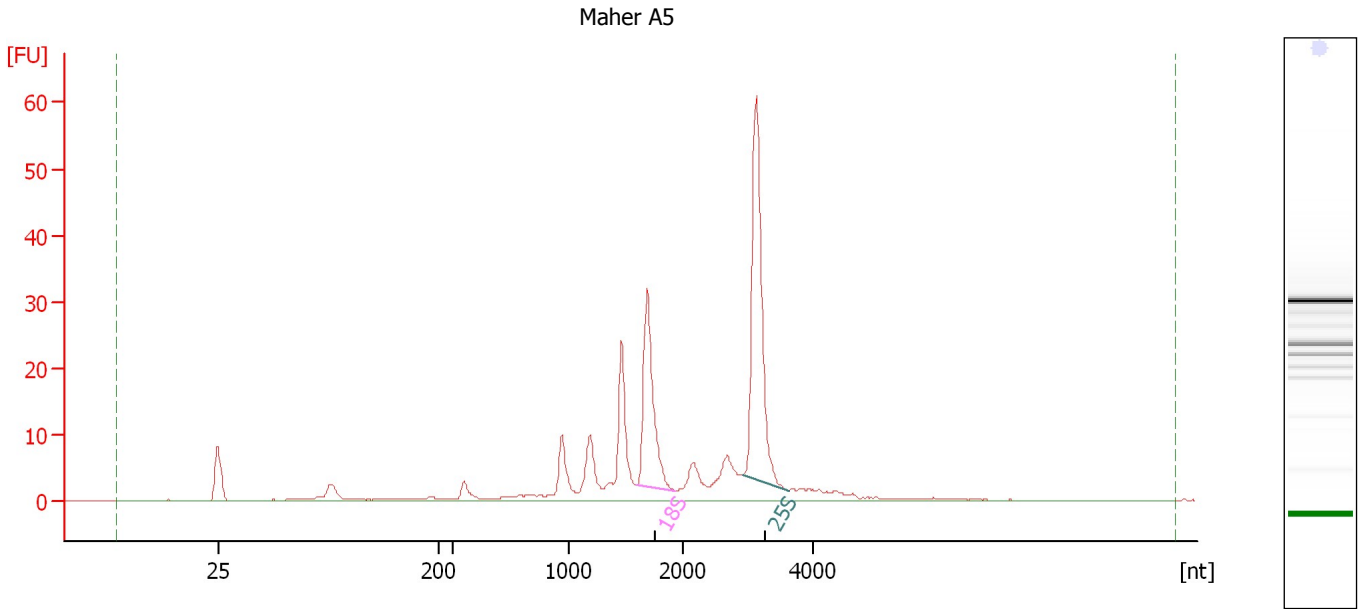
Fragment table for sample 7 : Maher A4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,620	1,960	3.1	9.3
25S	2,829	3,451	4.4	13.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
Modified: 4/16/2014 2:04:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Maher A5

RNA Area:	220.0	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	195 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN: 8.10

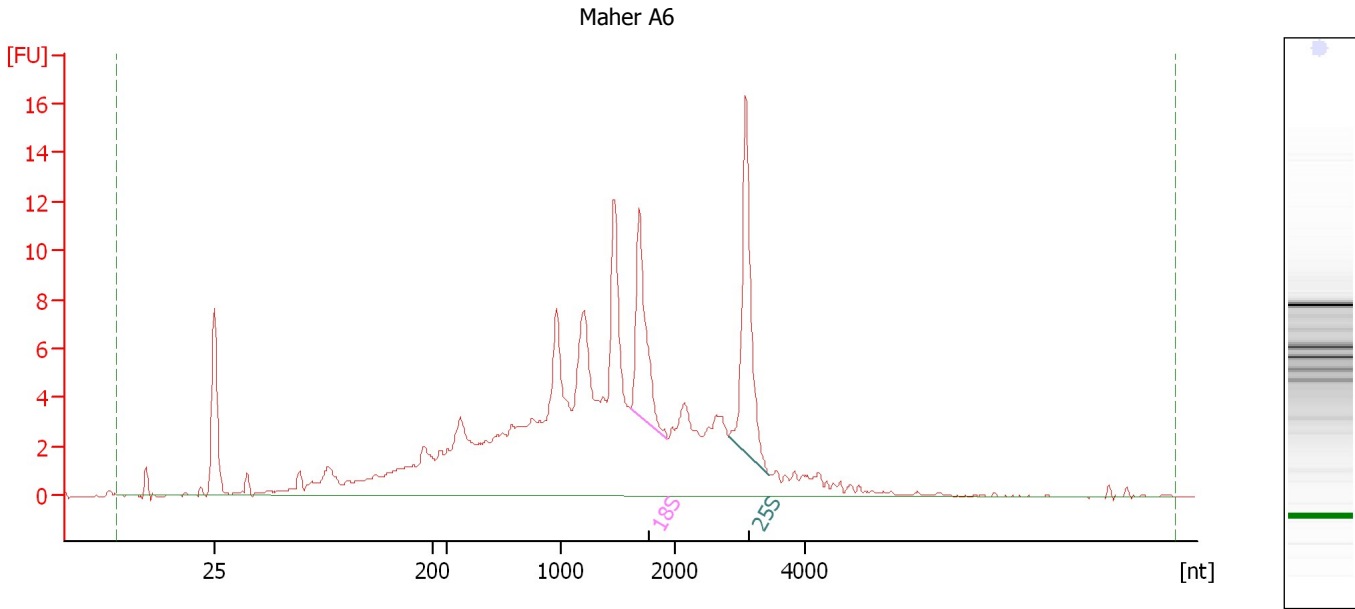
Fragment table for sample 8 : Maher A5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,589	1,921	33.9	15.4
25S	2,895	3,601	59.6	27.1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
Modified: 4/16/2014 2:04:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Maher A6

RNA Area: 170.8 RNA Integrity Number (RIN): 5.8 (B.02.08)
RNA Concentration: 151 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 5.80

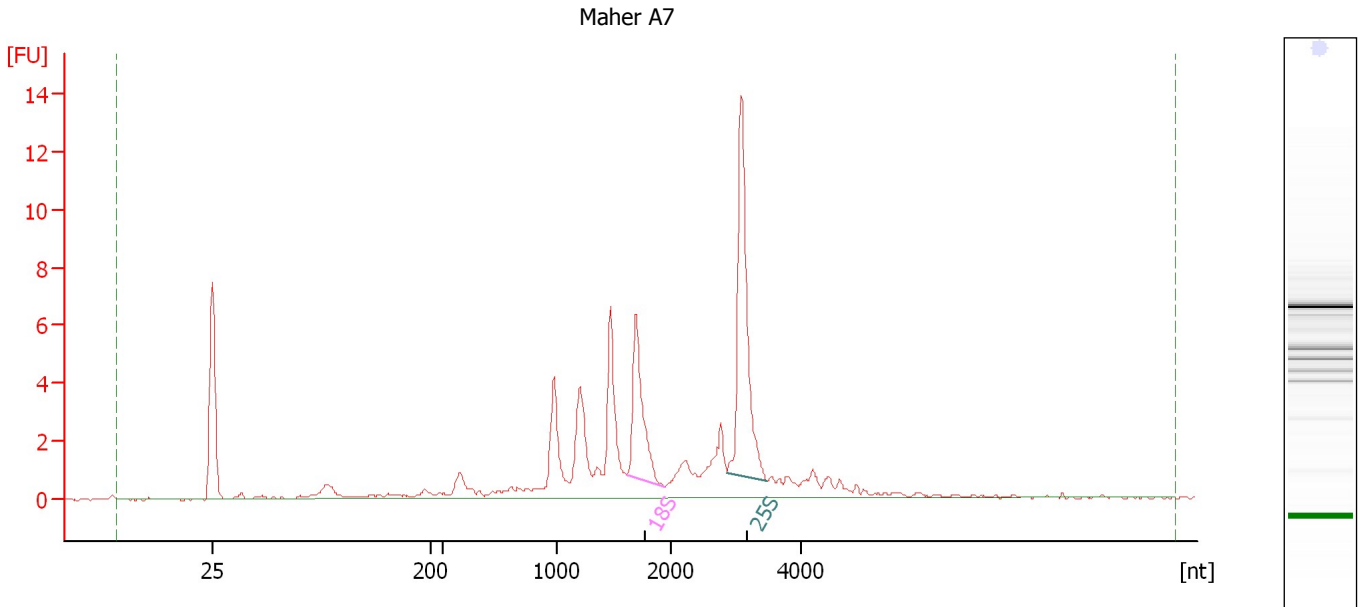
Fragment table for sample 9 : Maher A6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,610	1,926	10.1	5.9
25S	2,813	3,442	14.2	8.3

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
 Modified: 4/16/2014 2:04:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Maher A7

RNA Area:	61.5	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	54 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.9	Result Flagging Label:	RIN: 7.80

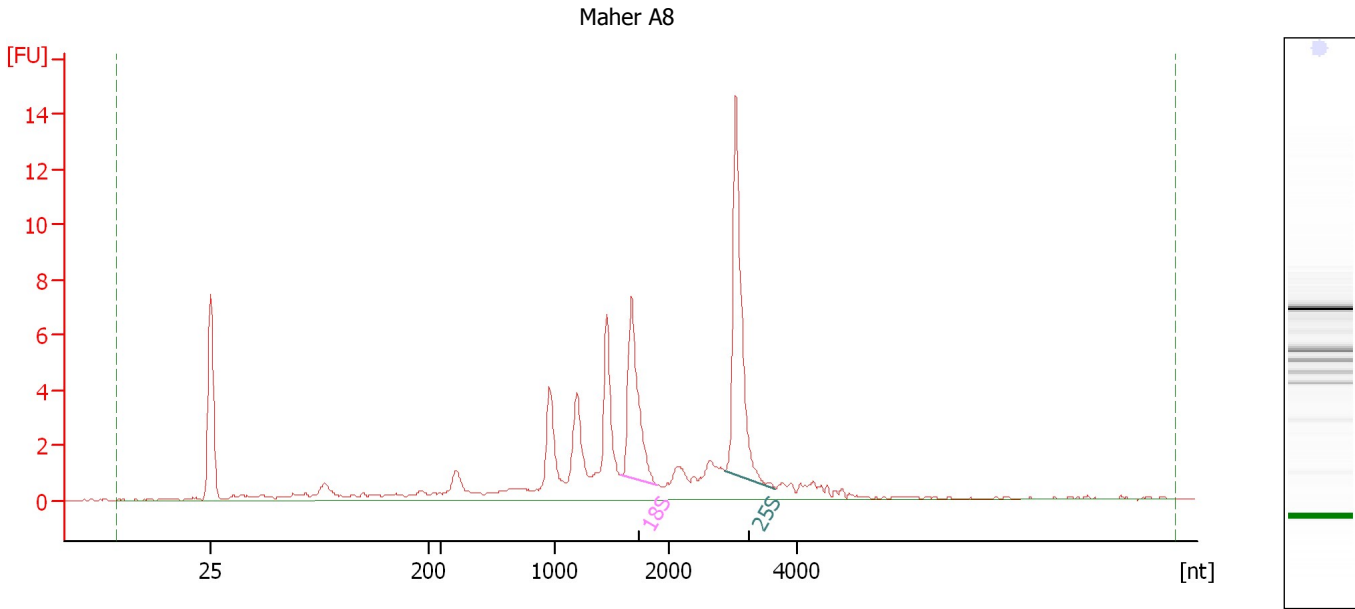
Fragment table for sample 10 : Maher A7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,616	1,943	6.9	11.2
25S	2,863	3,478	12.9	21.0

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
 Modified: 4/16/2014 2:04:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Maher A8

RNA Area:	68.9	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	61 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.6	Result Flagging Label:	RIN: 7.80

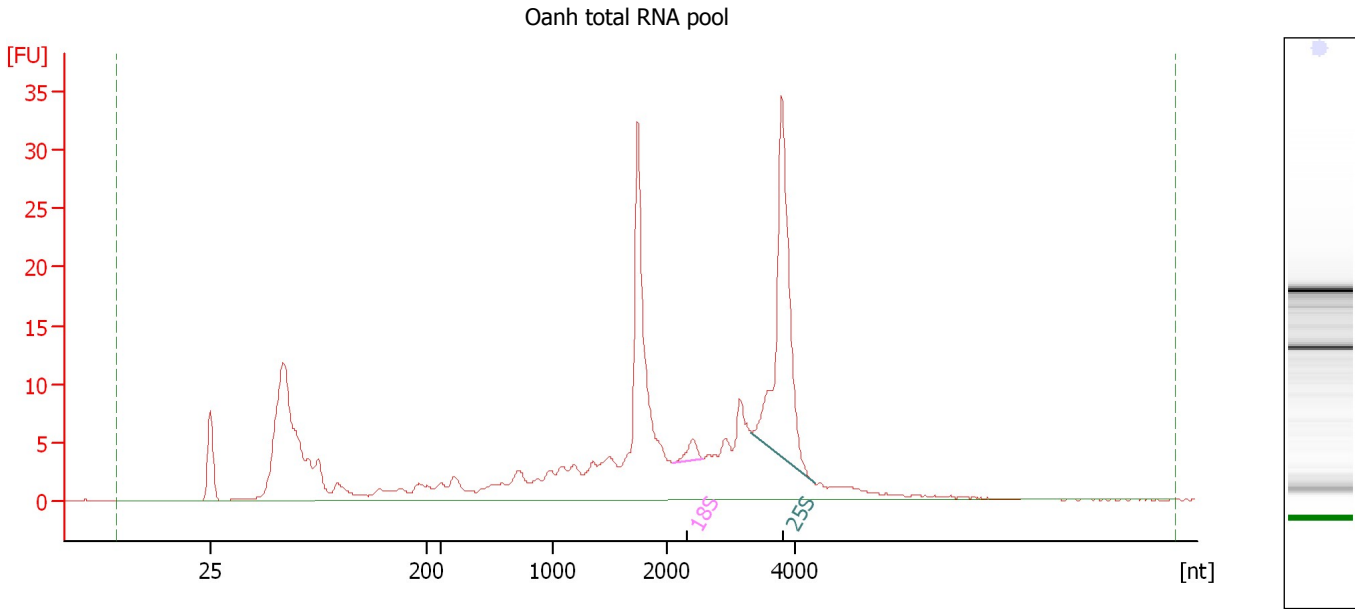
Fragment table for sample 11 : Maher A8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,576	1,895	8.0	11.6
25S	2,863	3,646	12.8	18.6

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
 Modified: 4/16/2014 2:04:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Oanh total RNA pool

RNA Area:	269.8	RNA Integrity Number (RIN):	4.8 (B.02.08)
RNA Concentration:	239 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	21.2	Result Flagging Label:	RIN: 4.80

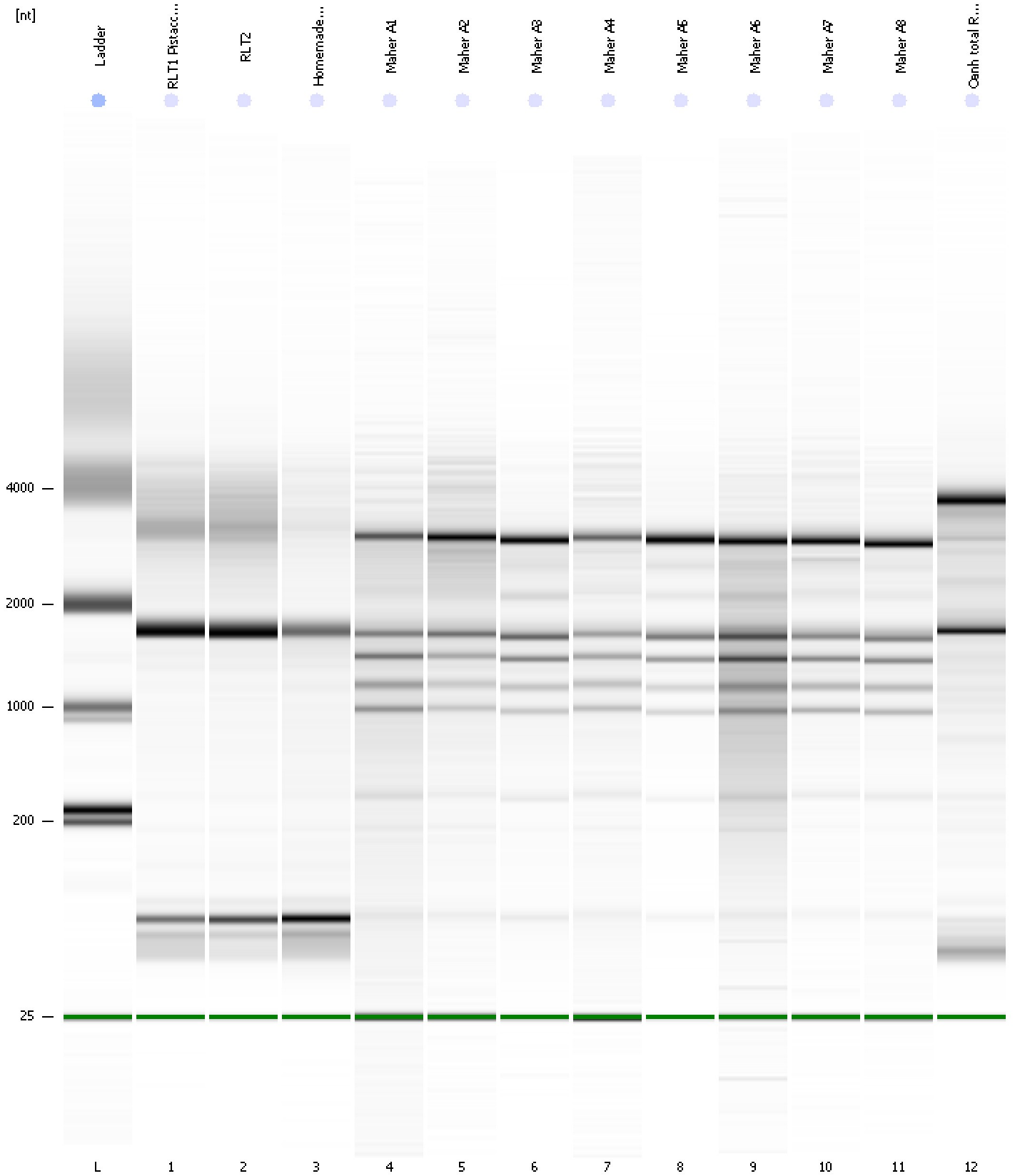
Fragment table for sample 12 : Oanh total RNA pool

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,095	2,546	2.0	0.7
25S	3,314	4,299	42.6	15.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
Modified: 4/16/2014 2:04:40 PM

Gel Image



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad

Created: 4/16/2014 12:49:56 PM
 Modified: 4/16/2014 2:04:40 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		4/16/2014 1:13:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-16\2014-04-16_001.xad)		Instrument	Run		4/16/2014 12:50:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/16/2014 12:50:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/16/2014 12:50:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/16/2014 12:50:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/16/2014 12:50:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/16/2014 12:50:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/16/2014 12:50:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1