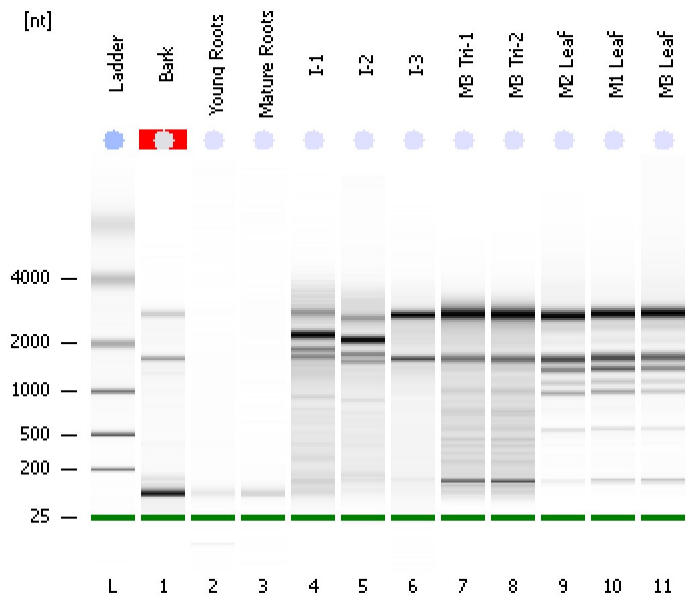


Assay Class: Plant RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

Created: 6/16/2015 10:54:47 AM
 Modified: 6/16/2015 11:17:42 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

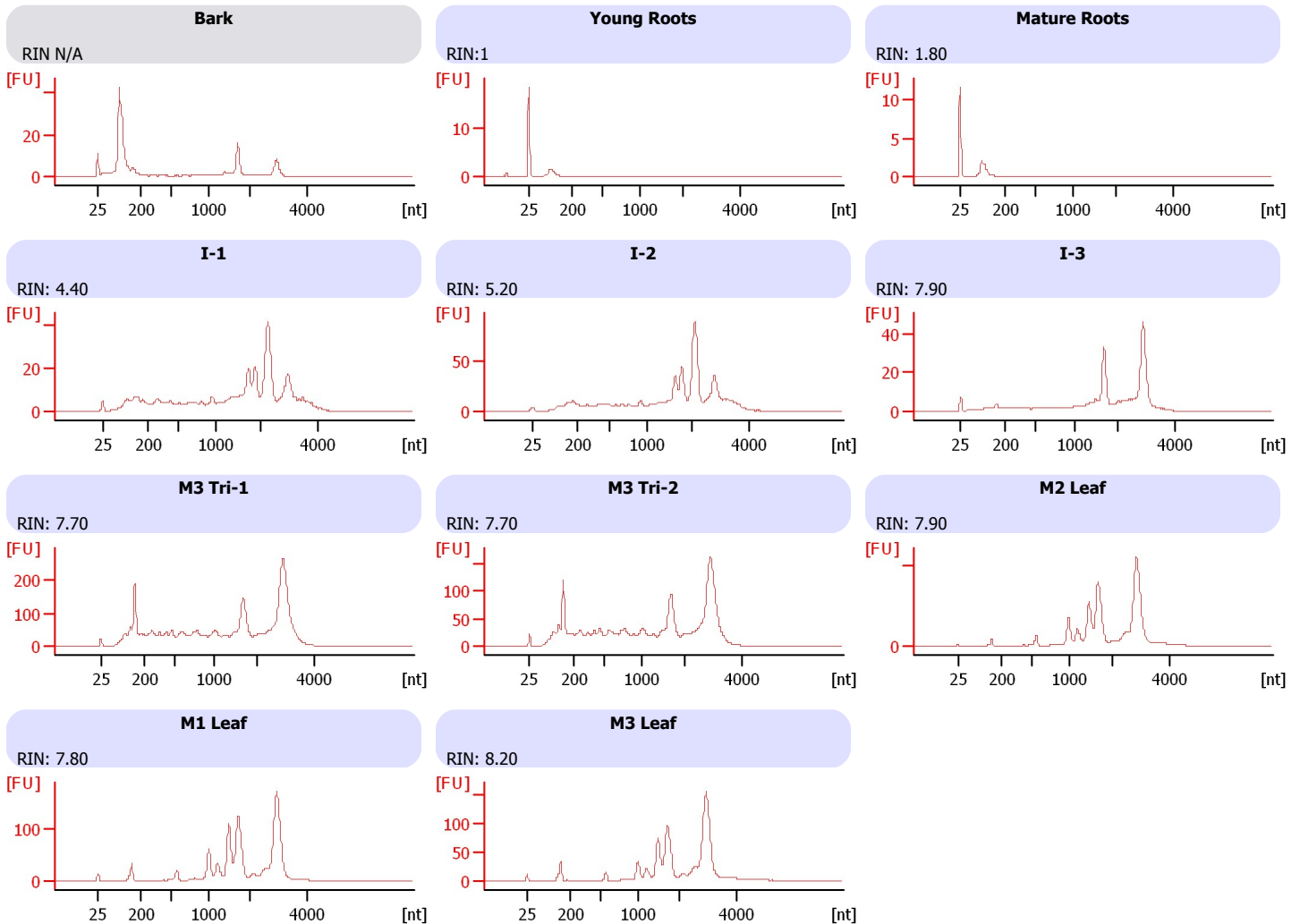
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Pico.xsy

Assay Class: Plant RNA Pico
 Version: 1.3
 Assay Comments: Total RNA Analysis pg sensitivity (Plant)

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Chip Information:

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



Assay Class: Plant RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

Created: 6/16/2015 10:54:47 AM
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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Bark		✓	RIN N/A	
Young Roots		✓	RIN:1	
Mature Roots		✓	RIN: 1.80	
I-1		✓	RIN: 4.40	
I-2		✓	RIN: 5.20	
I-3		✓	RIN: 7.90	
M3 Tri-1		✓	RIN: 7.70	
M3 Tri-2		✓	RIN: 7.70	
M2 Leaf		✓	RIN: 7.90	
M1 Leaf		✓	RIN: 7.80	
M3 Leaf		✓	RIN: 8.20	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

Created: 6/16/2015 10:54:47 AM
Modified: 6/16/2015 11:17:42 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ 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] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

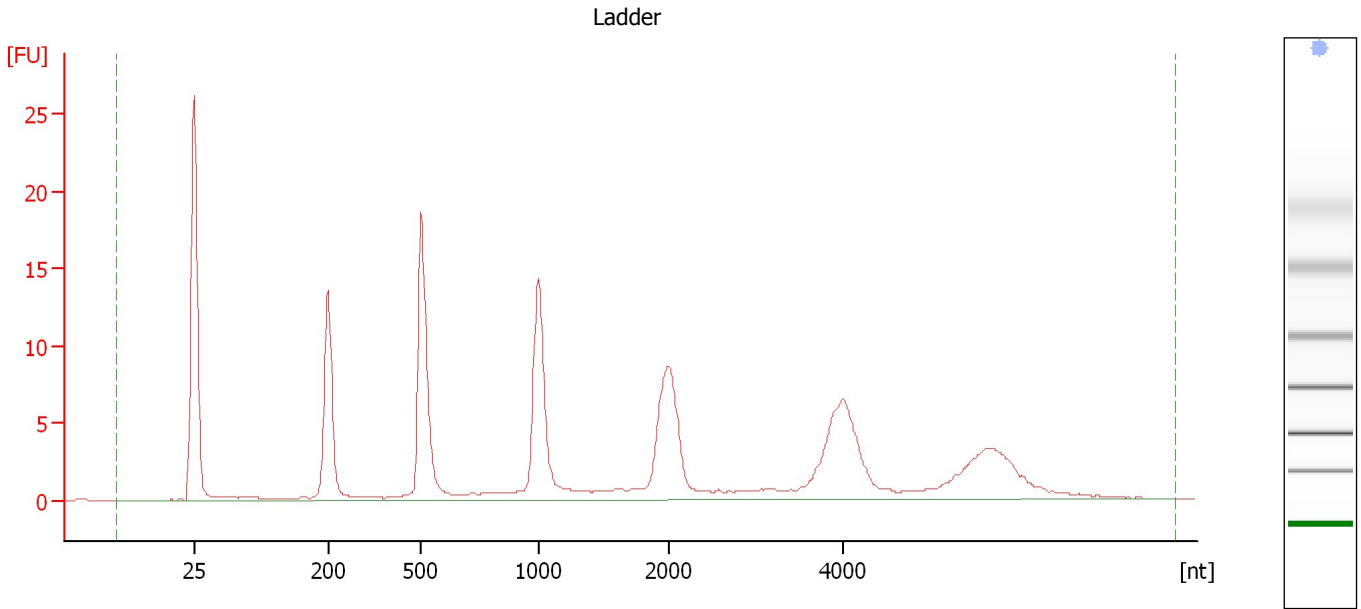
Ladder

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

Assay Class: Plant RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

Created: 6/16/2015 10:54:47 AM
Modified: 6/16/2015 11:17:42 AM

Electropherogram Summary



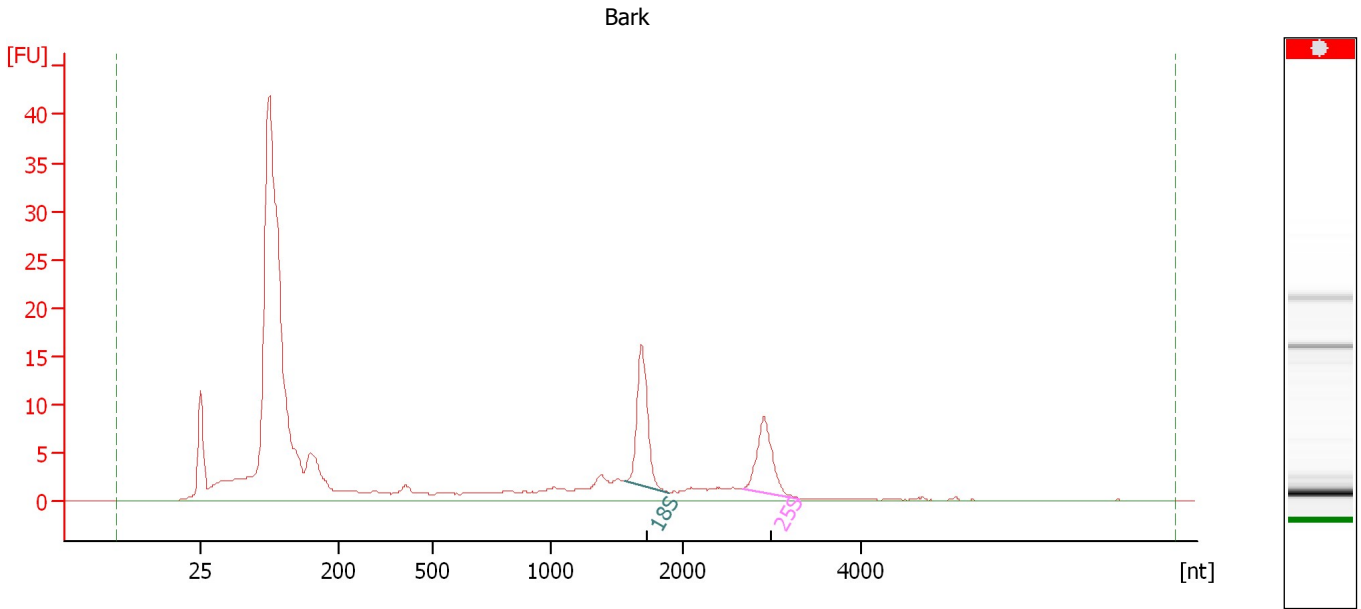
Overall Results for Ladder

RNA Area:	152.1	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

Created: 6/16/2015 10:54:47 AM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : Bark

RNA Area:	262.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,726 µg/µl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.7	Result Flagging Label:	RIN N/A

Fragment table for sample 1 : Bark

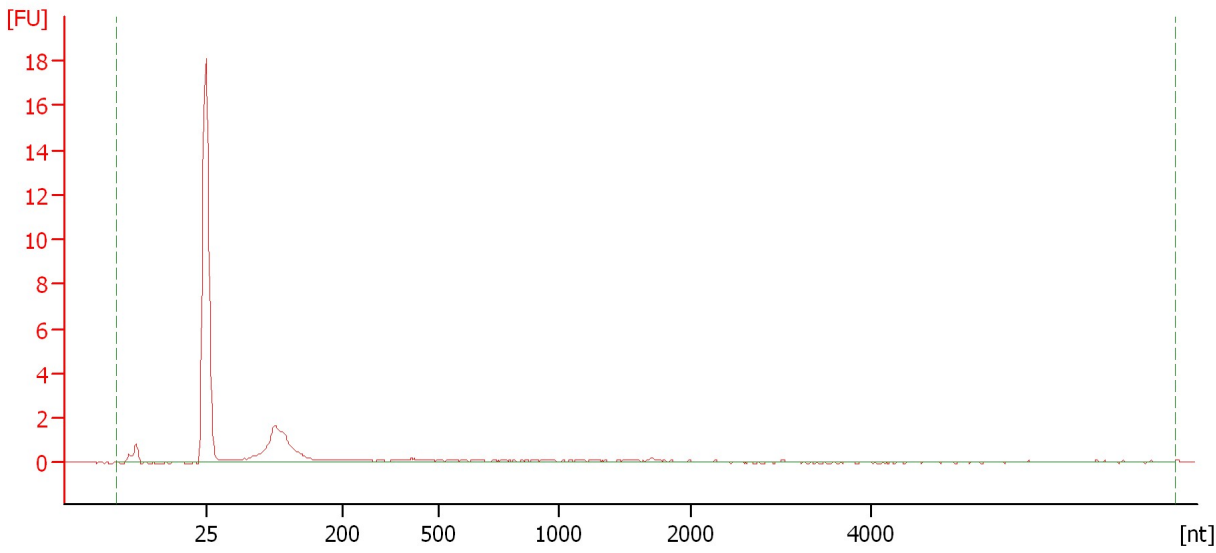
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,566	1,889	18.7	7.1
25S	2,676	3,312	12.9	4.9

Assay Class: Plant RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

Created: 6/16/2015 10:54:47 AM
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Electropherogram Summary Continued ...

Young Roots



Overall Results for sample 2 : Young Roots

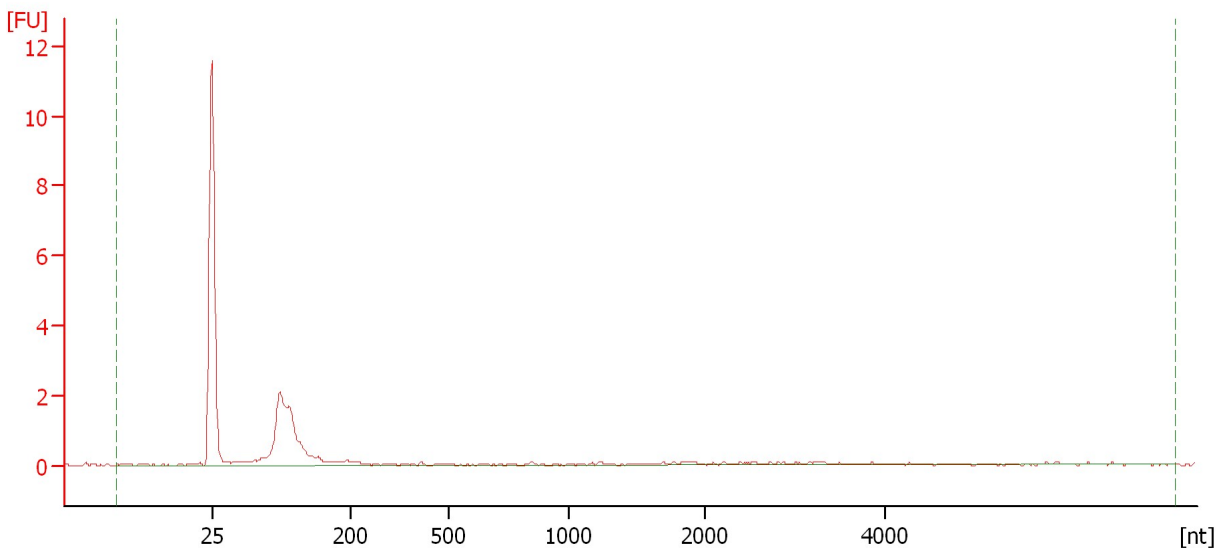
RNA Area:	13.3	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	87 pg/ μ l	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Plant RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

Created: 6/16/2015 10:54:47 AM
Modified: 6/16/2015 11:17:42 AM

Electropherogram Summary Continued ...

Mature Roots



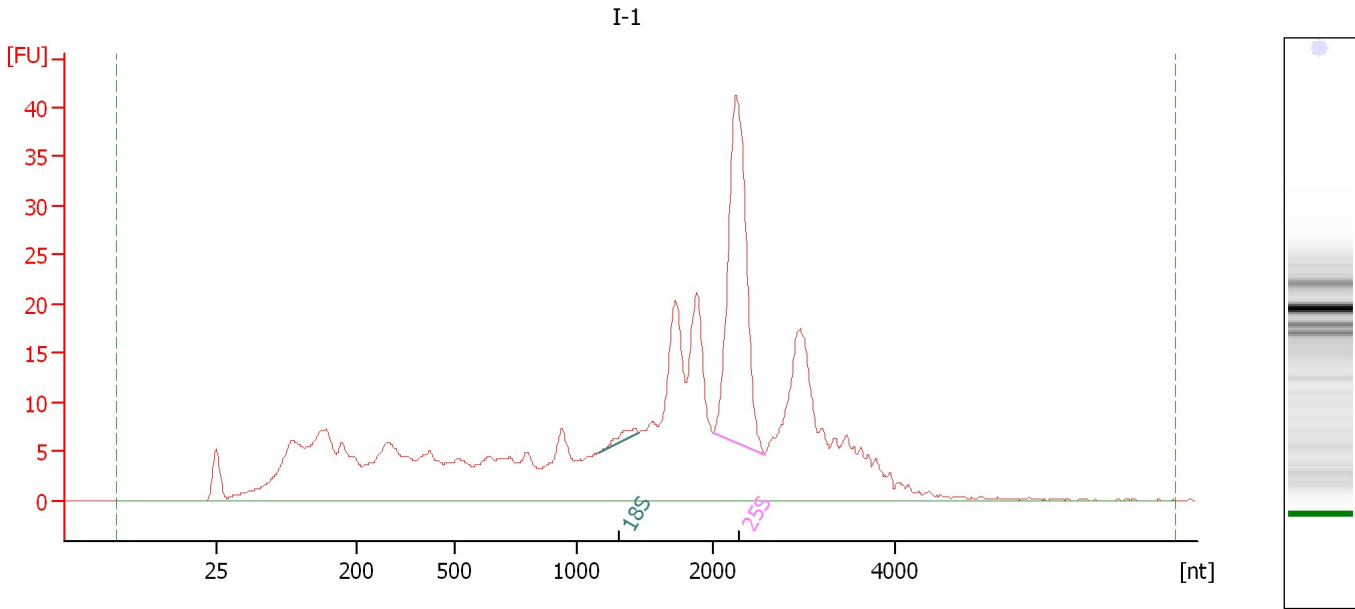
Overall Results for sample 3 : Mature Roots

RNA Area:	11.3	RNA Integrity Number (RIN):	1.8 (B.02.08)
RNA Concentration:	74 pg/ μ l	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.80

Assay Class: Plant RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

Created: 6/16/2015 10:54:47 AM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : I-1

RNA Area:	525.4	RNA Integrity Number (RIN):	4.4 (B.02.08)
RNA Concentration:	3,454 pg/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	33.6	Result Flagging Label:	RIN: 4.40

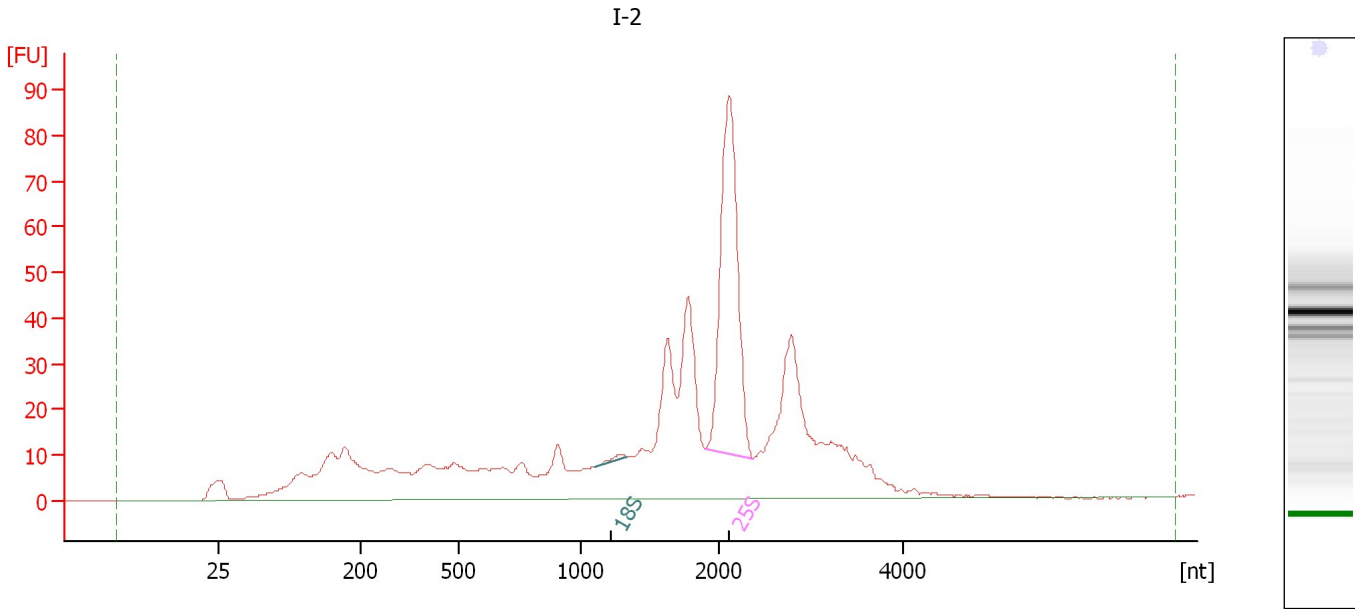
Fragment table for sample 4 : I-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,167	1,465	2.1	0.4
25S	1,998	2,569	71.3	13.6

Assay Class: Plant RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : I-2

RNA Area:	866.9	RNA Integrity Number (RIN):	5.2 (B.02.08)
RNA Concentration:	5,699 pg/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	83.6	Result Flagging Label:	RIN: 5.20

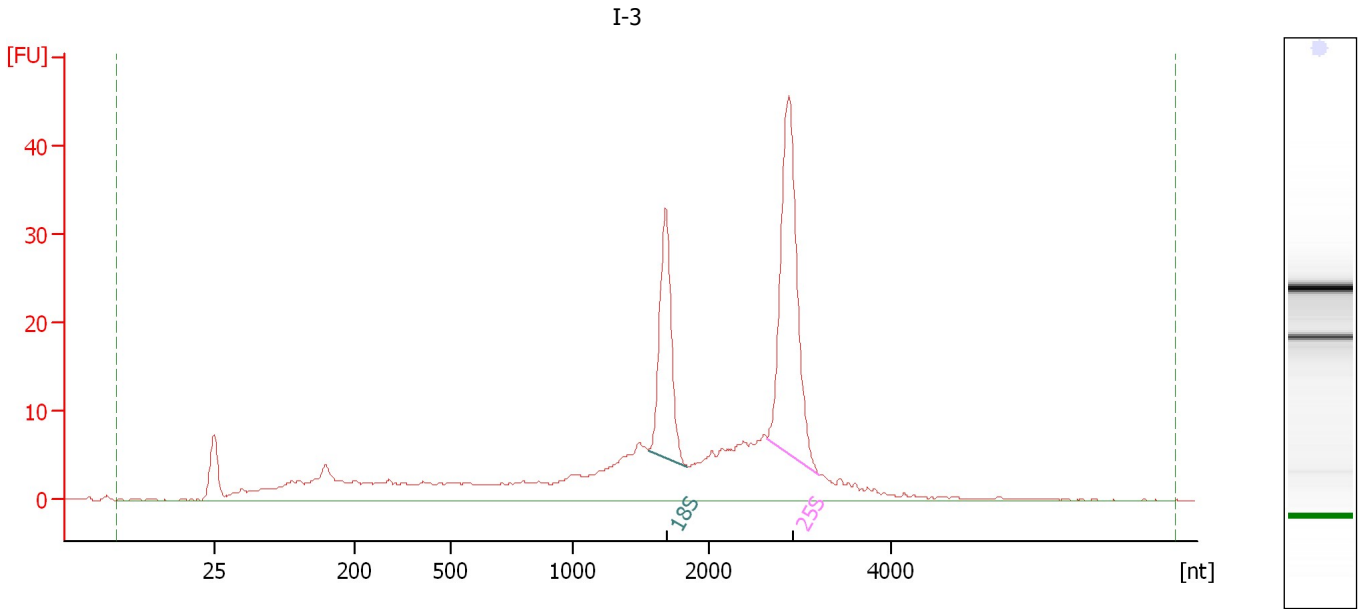
Fragment table for sample 5 : I-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,103	1,337	1.8	0.2
25S	1,905	2,370	148.9	17.2

Assay Class: Plant RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : I-3

RNA Area:	341.3	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	2,244 pg/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN: 7.90

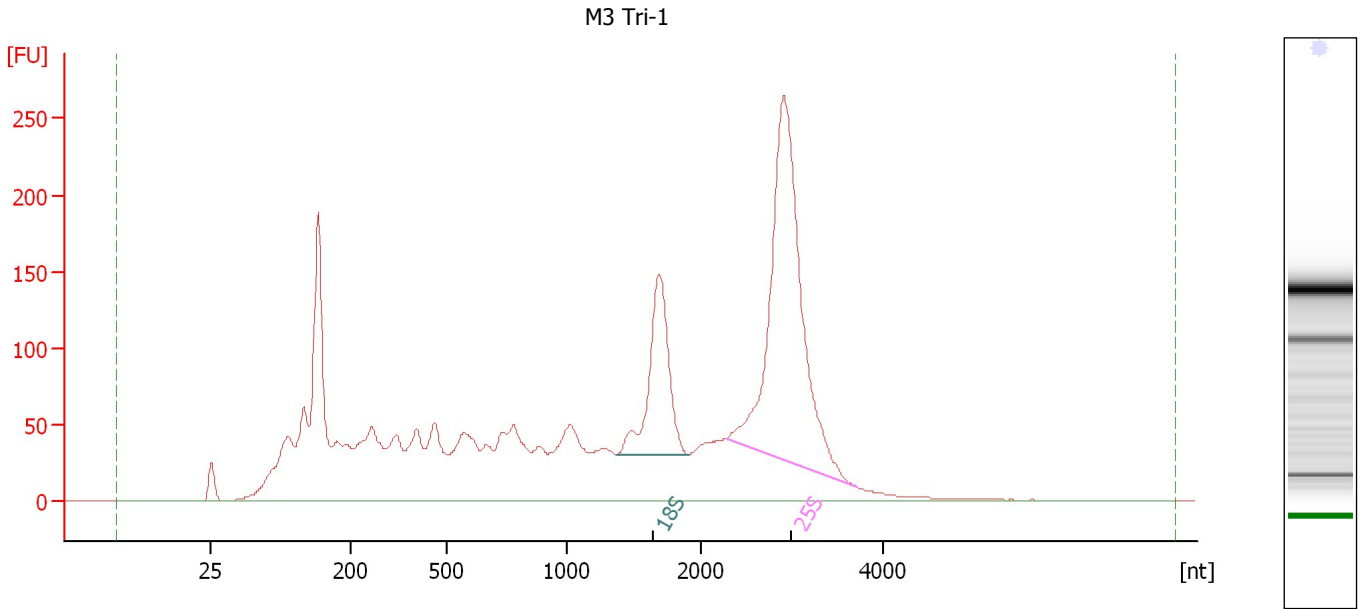
Fragment table for sample 6 : I-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,557	1,848	39.1	11.5
25S	2,652	3,215	69.9	20.5

Assay Class: Plant RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

Created: 6/16/2015 10:54:47 AM
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Electropherogram Summary Continued ...



Overall Results for sample 7 : M3 Tri-1

RNA Area:	3,808.2	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	25,034 pg/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.8	Result Flagging Label:	RIN: 7.70

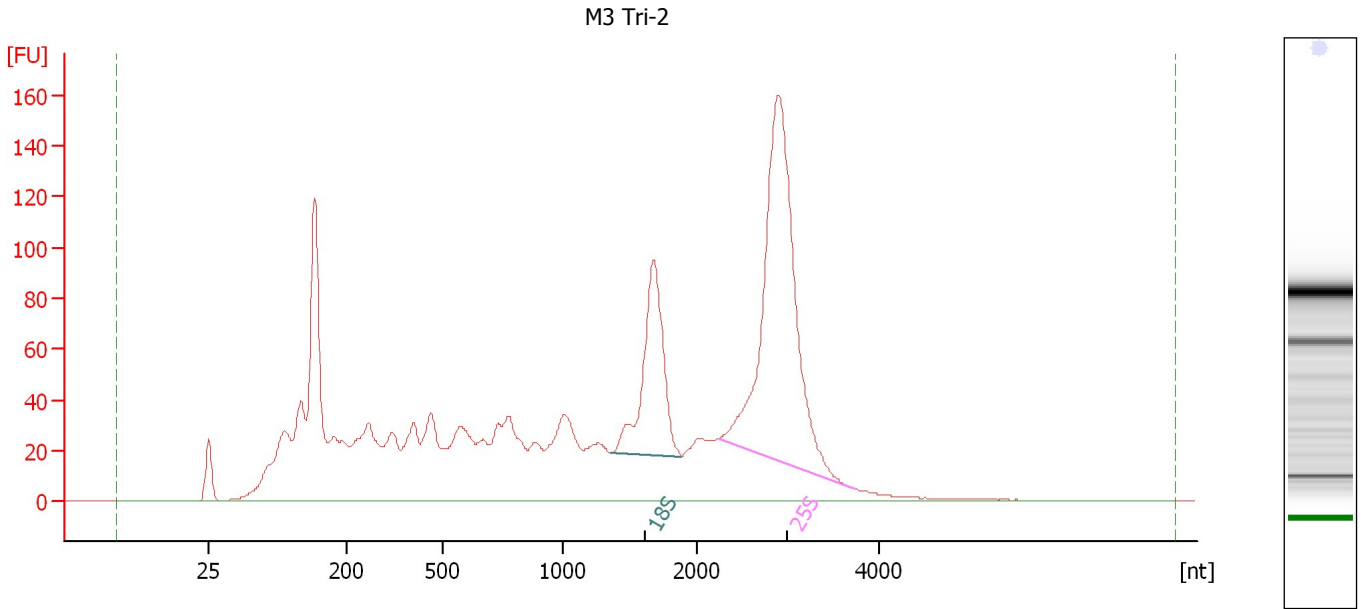
Fragment table for sample 7 : M3 Tri-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,363	1,901	280.8	7.4
25S	2,278	3,716	772.5	20.3

Assay Class: Plant RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : M3 Tri-2

RNA Area:	2,425.9	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	15,947 pg/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.6	Result Flagging Label:	RIN: 7.70

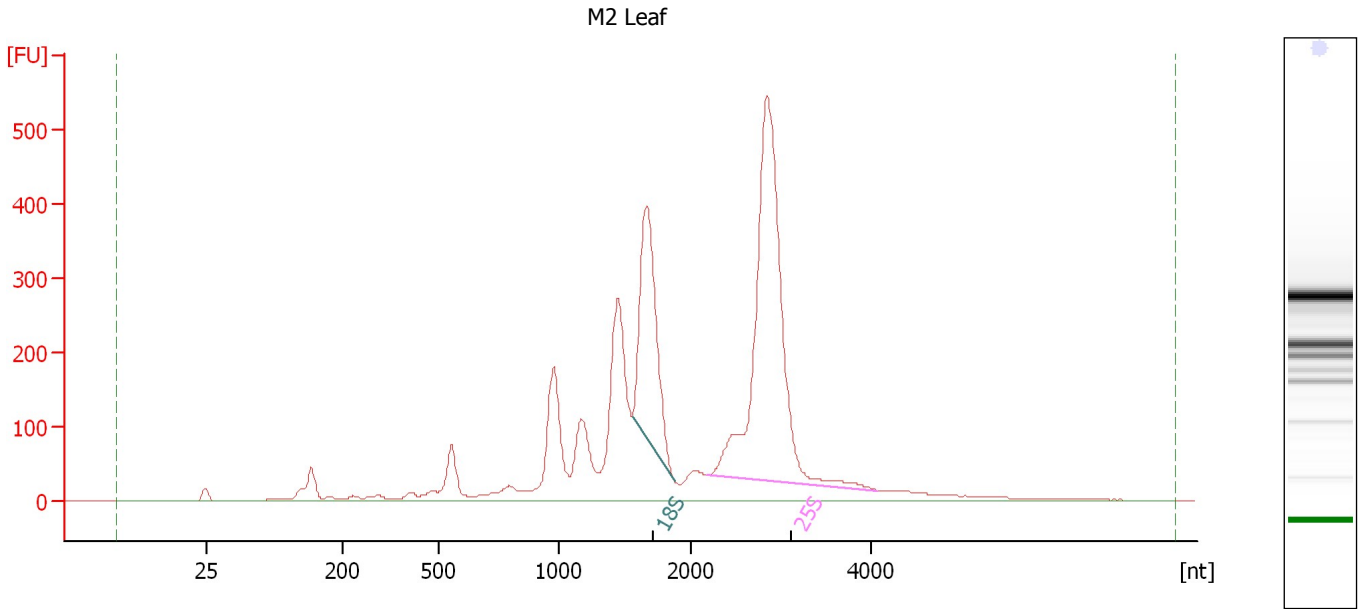
Fragment table for sample 8 : M3 Tri-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,359	1,877	187.3	7.7
25S	2,243	3,746	479.1	19.7

Assay Class: Plant RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : M2 Leaf

RNA Area: 4,500.0 RNA Integrity Number (RIN): 7.9 (B.02.08)
RNA Concentration: 29,582 pg/ μ l Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.3 Result Flagging Label: RIN: 7.90

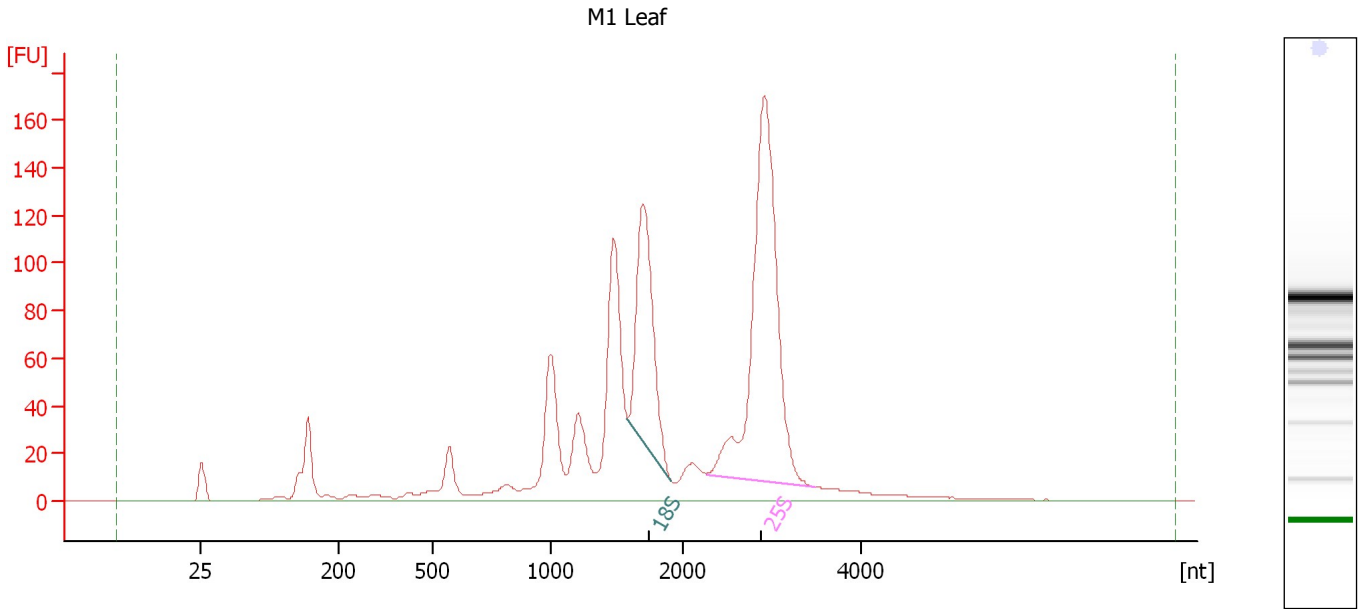
Fragment table for sample 9 : M2 Leaf

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,555	1,875	620.4	13.8
25S	2,183	4,077	1,434.7	31.9

Assay Class: Plant RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

Created: 6/16/2015 10:54:47 AM
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Electropherogram Summary Continued ...



Overall Results for sample 10 : M1 Leaf

RNA Area: 1,463.5 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 9,620 pg/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.1 Result Flagging Label: RIN: 7.80

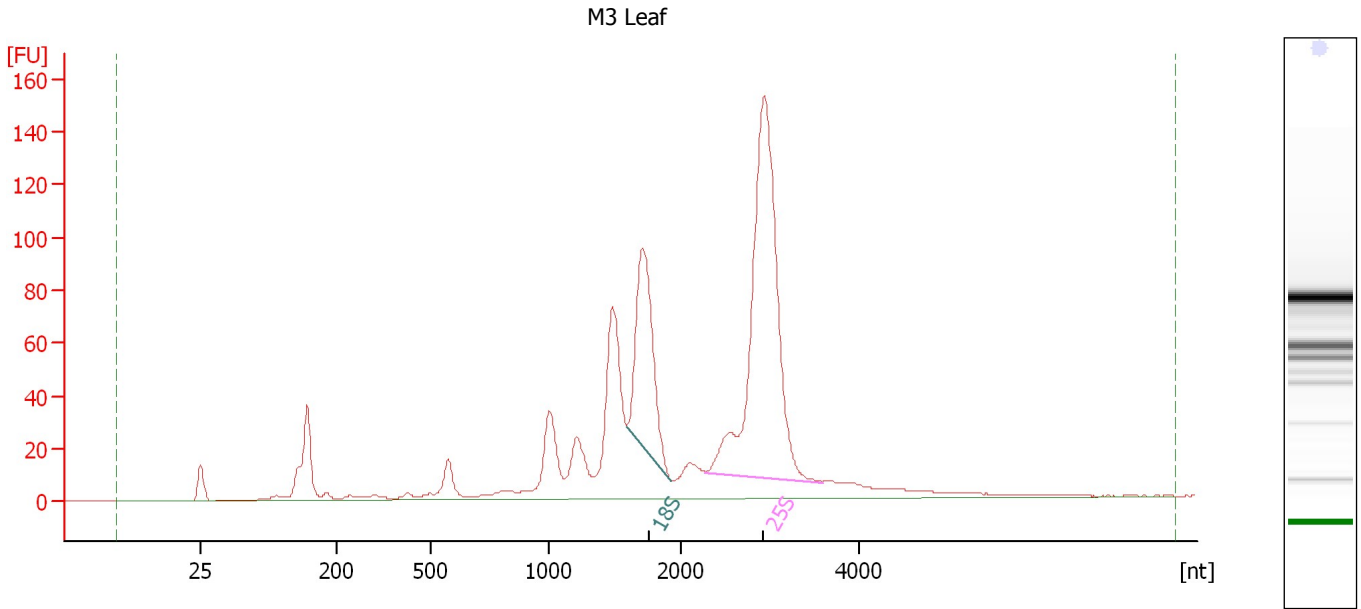
Fragment table for sample 10 : M1 Leaf

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,582	1,913	199.3	13.6
25S	2,267	3,492	424.8	29.0

Assay Class: Plant RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

Created: 6/16/2015 10:54:47 AM
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Electropherogram Summary Continued ...



Overall Results for sample 11 : M3 Leaf

RNA Area: 1,191.9 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 7,835 pg/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.6 Result Flagging Label: RIN: 8.20

Fragment table for sample 11 : M3 Leaf

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,589	1,920	154.8	13.0
25S	2,279	3,591	395.7	33.2

Assay Class: Plant RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-16\2015-06-16_001.xad

Created: 6/16/2015 10:54:47 AM
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Gel Image

