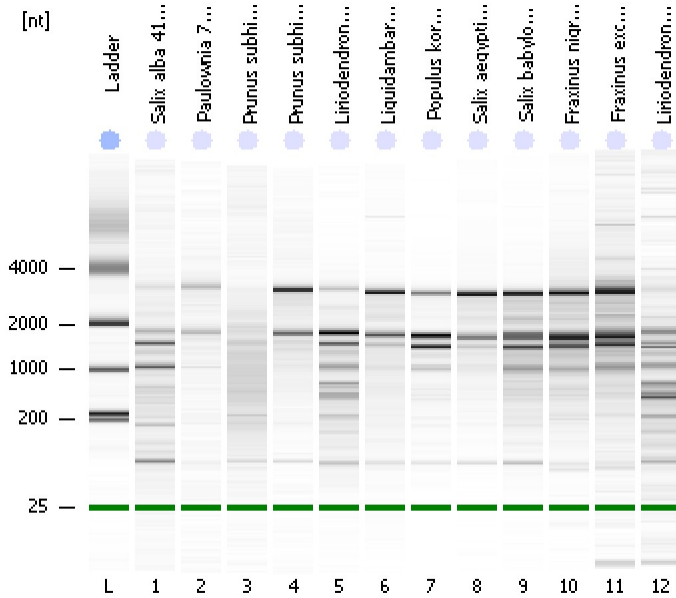


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
Modified: 12/2/2014 2:57:12 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

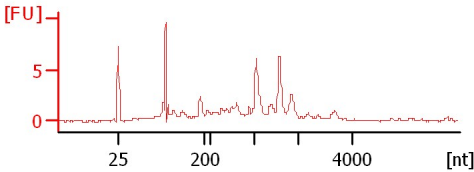
Assay Class: Plant RNA Nano
Version: 1.3
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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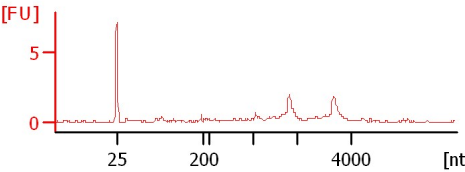
Chip Information:

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

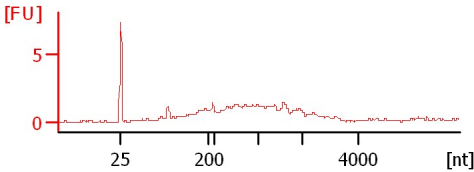
Salix alba 411-66-a
RIN: 3.60



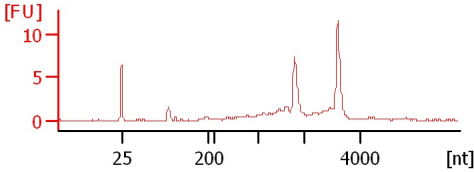
Paulownia 730-77-d
RIN: 7.50



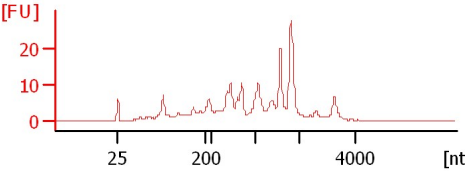
Prunus subhirtella x yedoensis 293-88b
RIN: 3.70



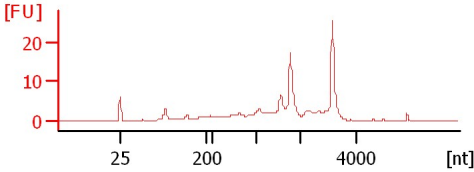
Prunus subhirtella var pedula 412-62A
RIN: 7.90



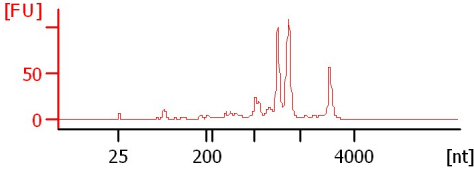
Liriodendron chinense 234-2004a
RIN: 5.30



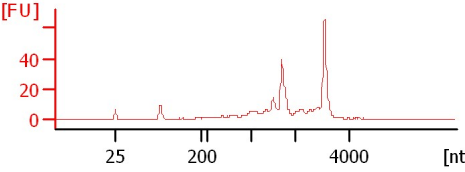
Liquidambar styraciflua 1248-79c
RIN: 7.40



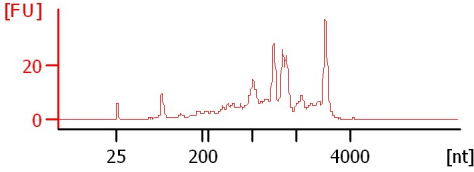
Populus koreana 203-96-a
RIN: 6.10



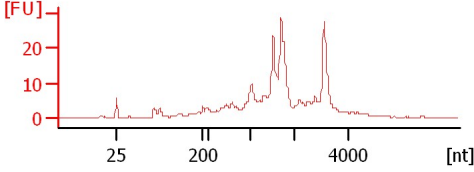
Salix aegyptiaca 101-91a
RIN: 7.80



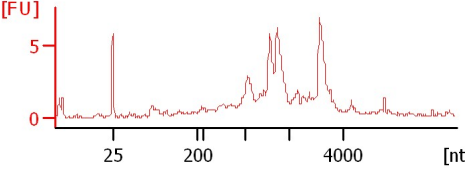
Salix babylonica 131-90a
RIN: 6.50



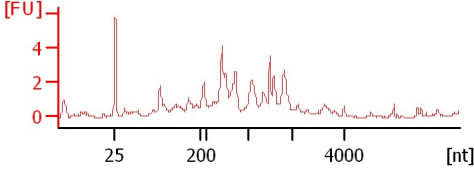
Fraxinus nigra 405-88a
RIN: 6.30



Fraxinus excelsior 1394-80a
RIN: 6.60



Liriodendron tulipifera 14992a
RIN: 2.80



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
 Modified: 12/2/2014 2:57:12 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Salix alba 411-66-a		✓	RIN: 3.60	
Paulownia 730-77-d		✓	RIN: 7.50	
Prunus subhirtella x yedoensis 293-88b		✓	RIN: 3.70	
Prunus subhirtella var pedula 412-62A		✓	RIN: 7.90	
Liriodendron chinense 234-2004a		✓	RIN: 5.30	
Liquidambar styraciflua 1248-79c		✓	RIN: 7.40	
Populus koreana 203-96-a		✓	RIN: 6.10	
Salix aegyptiaca 101-91a		✓	RIN: 7.80	
Salix babylonica 131-90a		✓	RIN: 6.50	
Fraxinus nigra 405-88a		✓	RIN: 6.30	
Fraxinus excelsior 1394-80a		✓	RIN: 6.60	
Liriodendron tulipifera 14992a		✓	RIN: 2.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
Modified: 12/2/2014 2:57:12 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

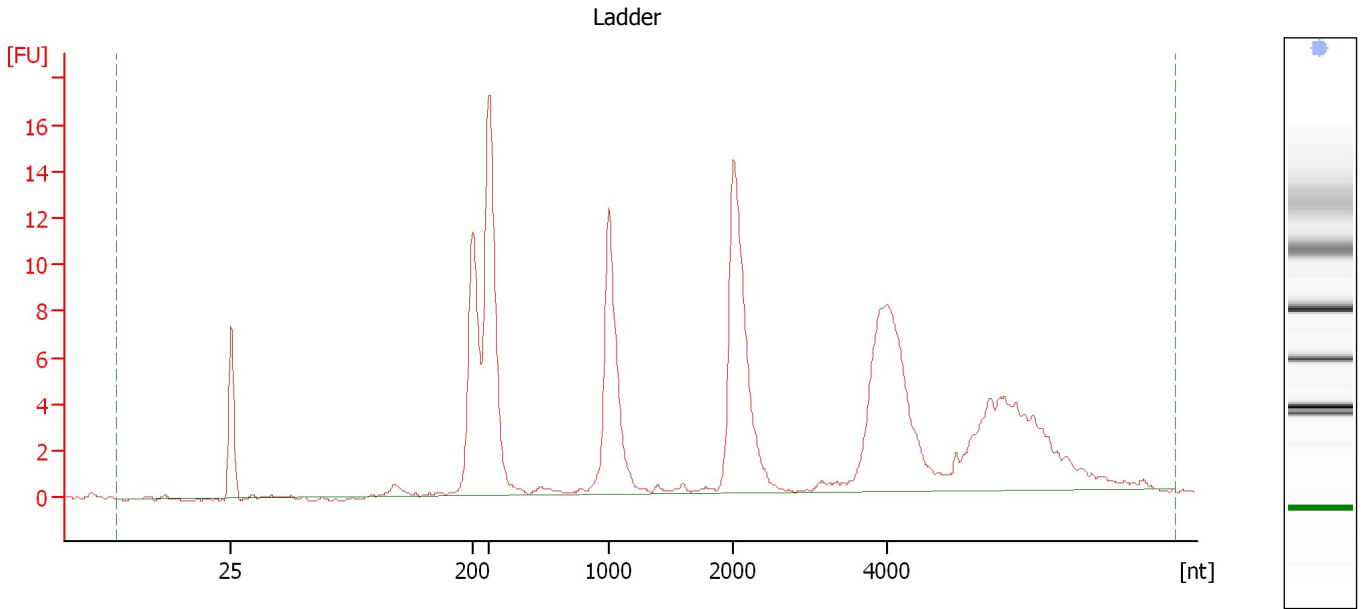
Ladder

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\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
Modified: 12/2/2014 2:57:12 PM

Electropherogram Summary



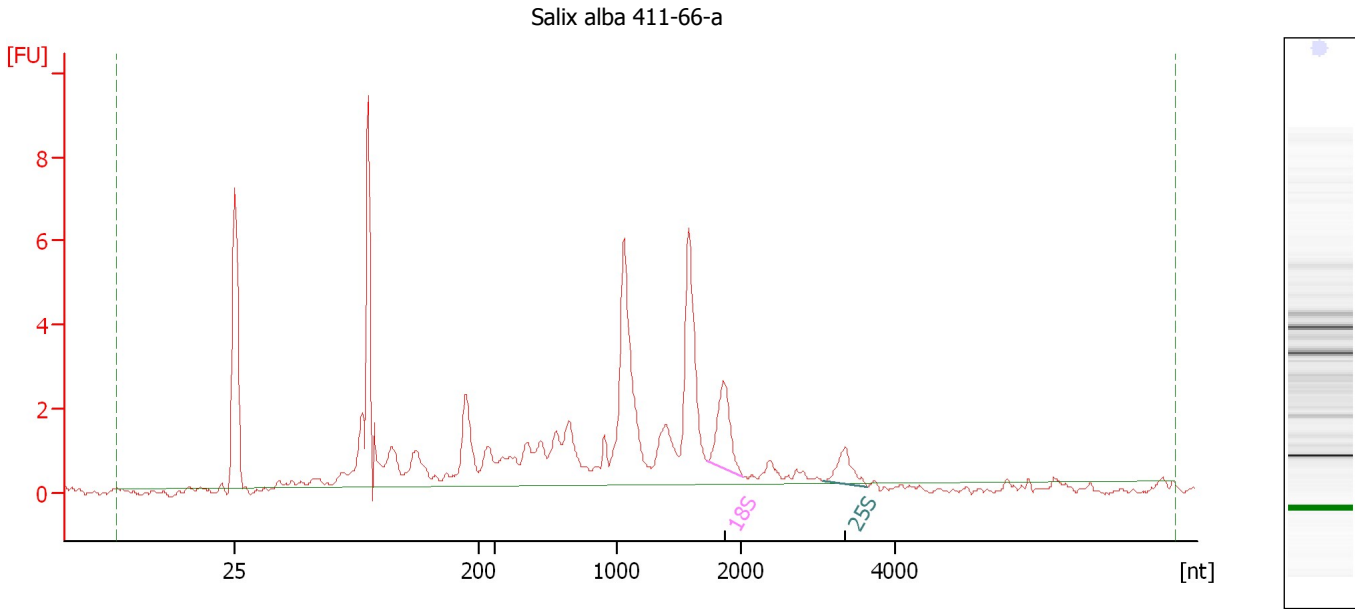
Overall Results for Ladder

RNA Area:	152.8	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\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
Modified: 12/2/2014 2:57:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Salix alba 411-66-a

RNA Area:	56.6	RNA Integrity Number (RIN):	3.6 (B.02.08)
RNA Concentration:	56 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.5	Result Flagging Label:	RIN: 3.60

Fragment table for sample 1 : Salix alba 411-66-a

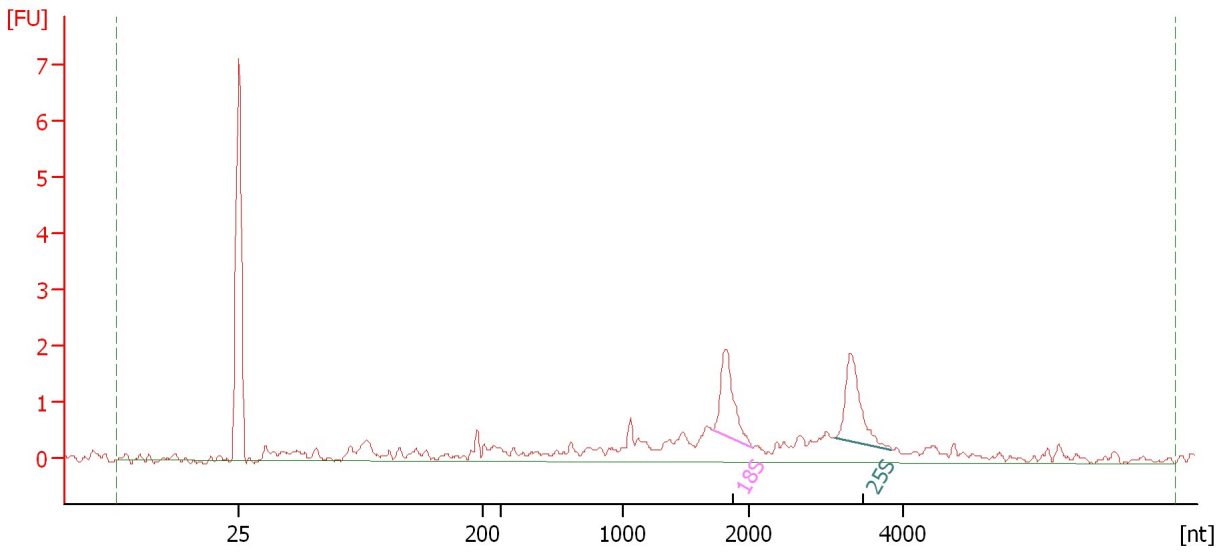
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,728	2,016	2.9	5.2
25S	3,057	3,626	1.4	2.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
Modified: 12/2/2014 2:57:12 PM

Electropherogram Summary Continued ...

Paulownia 730-77-d



Overall Results for sample 2 : Paulownia 730-77-d

RNA Area: 24.6 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 24 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.1 Result Flagging Label: RIN: 7.50

Fragment table for sample 2 : Paulownia 730-77-d

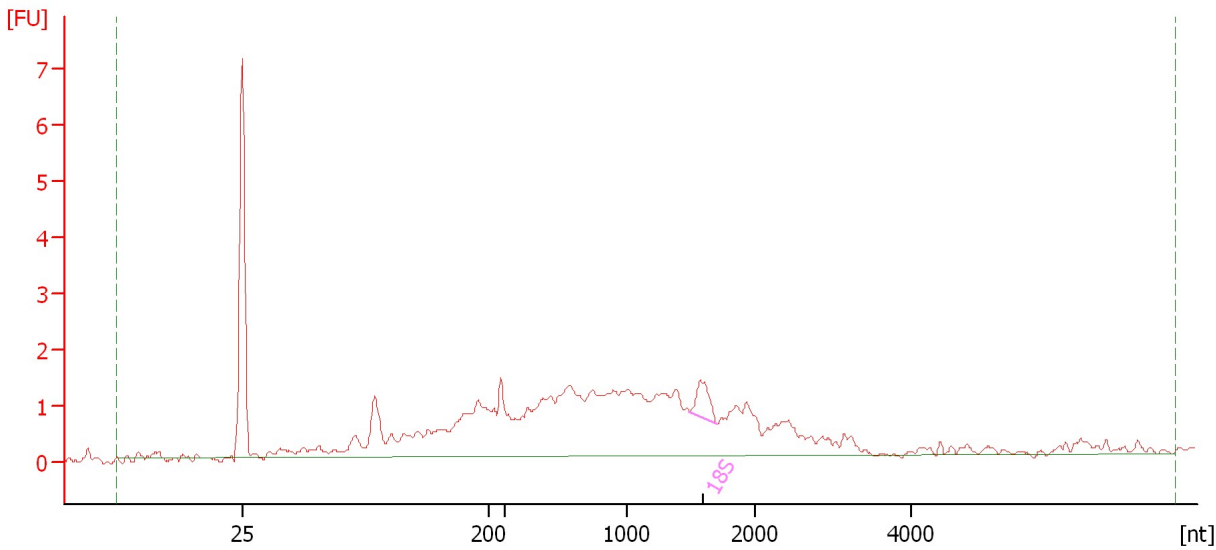
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,722	2,074	2.2	9.0
25S	3,122	3,853	2.4	9.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
Modified: 12/2/2014 2:57:12 PM

Electropherogram Summary Continued ...

Prunus subhirtella x yedoensis 293-88b



Overall Results for sample 3 : Prunus subhirtella x yedoensis 293-88b

RNA Area:	45.4	RNA Integrity Number (RIN):	3.7 (B.02.08)
RNA Concentration:	45 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 3.70

Fragment table for sample 3 : Prunus subhirtella x yedoensis 293-88b

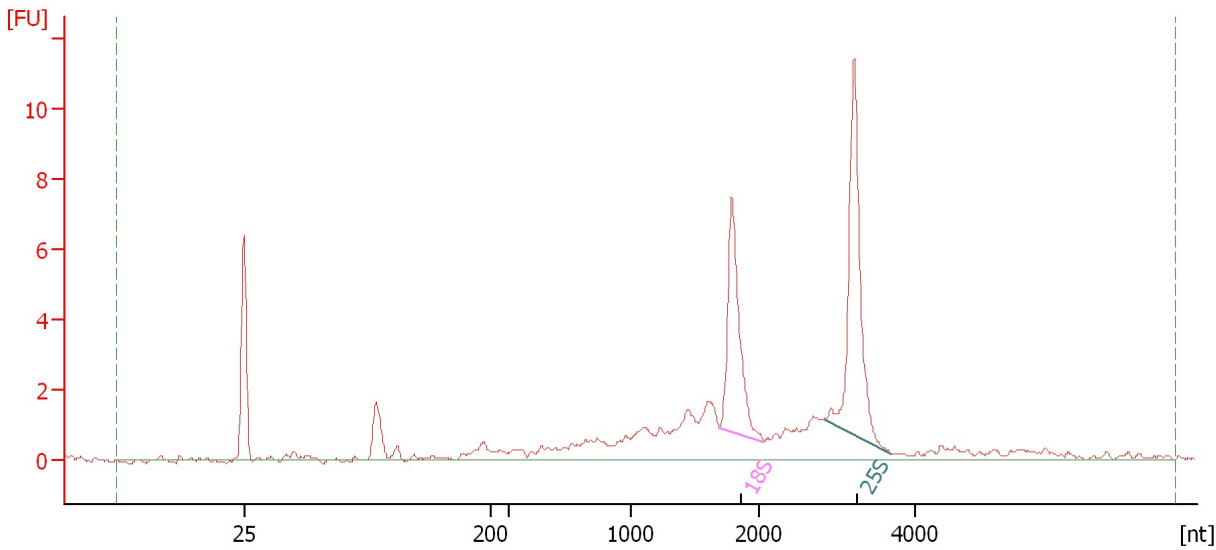
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,489	1,708	1.0	2.1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
Modified: 12/2/2014 2:57:12 PM

Electropherogram Summary Continued ...

Prunus subhirtella var pedula 412-62A



Overall Results for sample 4 : Prunus subhirtella var pedula 412-62A

RNA Area: 56.4 RNA Integrity Number (RIN): 7.9 (B.02.08)
RNA Concentration: 55 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 7.90

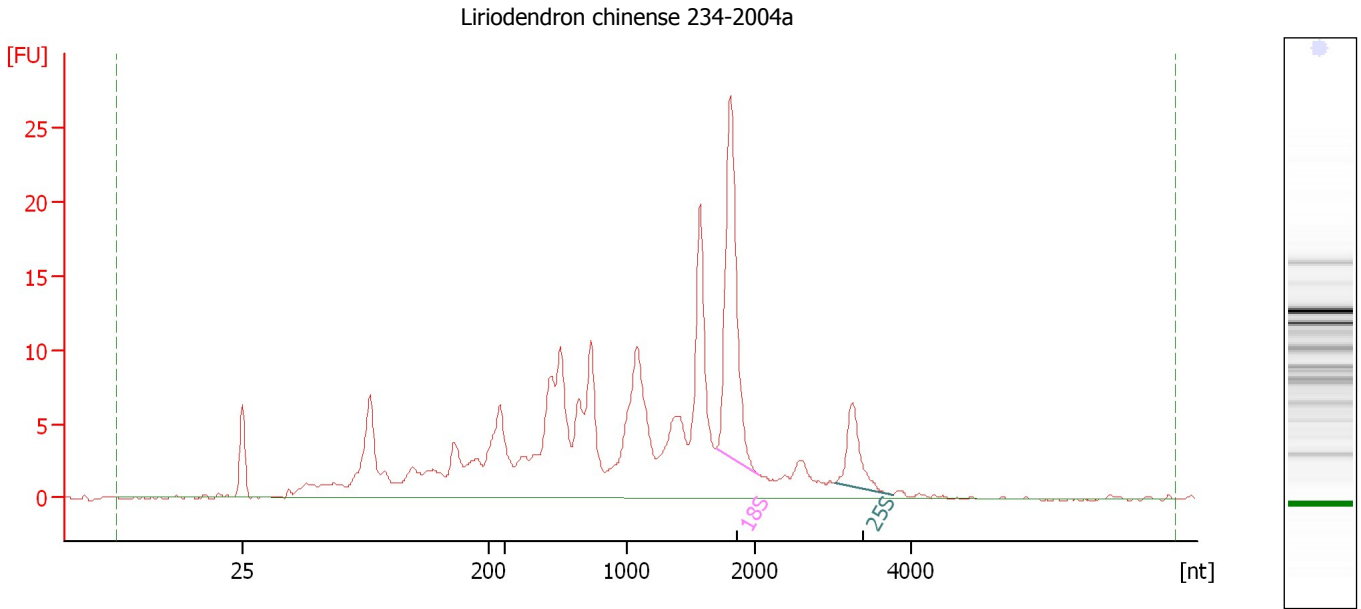
Fragment table for sample 4 : Prunus subhirtella var pedula 412-62A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,694	2,063	8.6	15.3
25S	2,855	3,702	11.7	20.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
Modified: 12/2/2014 2:57:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Liriodendron chinense 234-2004a

RNA Area: 248.8 RNA Integrity Number (RIN): 5.3 (B.02.08)
RNA Concentration: 244 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.2 Result Flagging Label: RIN: 5.30

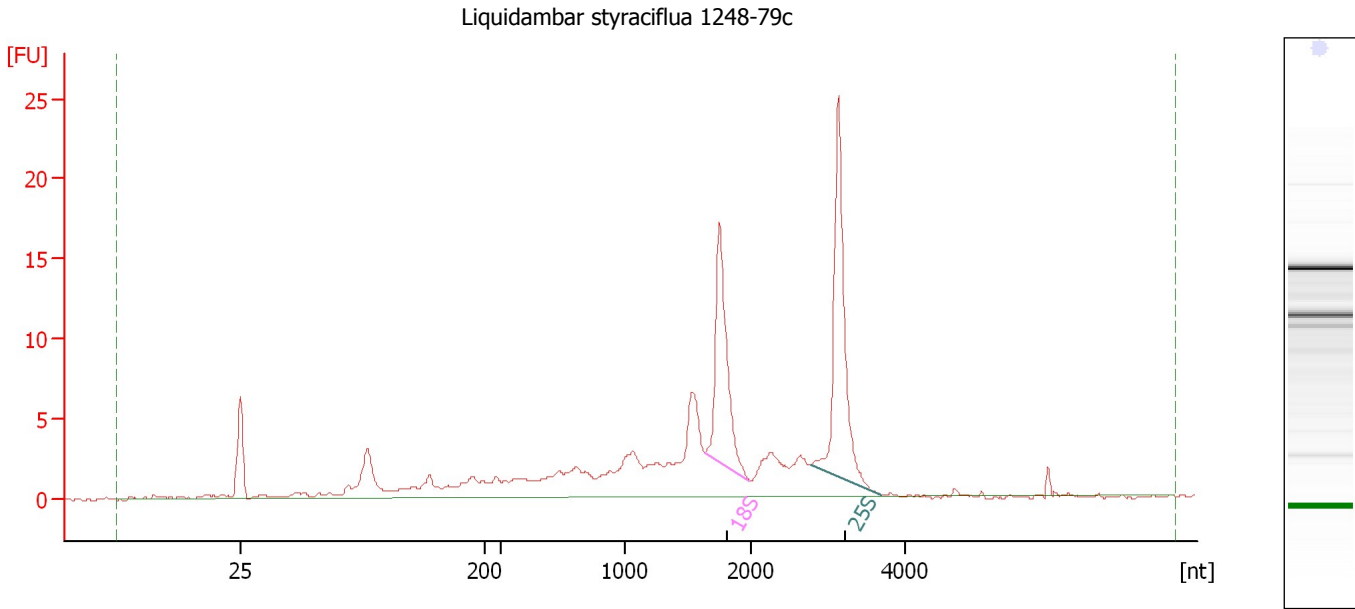
Fragment table for sample 5 : Liriodendron chinense 234-2004a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,700	2,062	30.7	12.3
25S	3,035	3,776	7.5	3.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
Modified: 12/2/2014 2:57:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Liquidambar styraciflua 1248-79c

RNA Area: 143.0 RNA Integrity Number (RIN): 7.4 (B.02.08)
RNA Concentration: 140 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.3 Result Flagging Label: RIN: 7.40

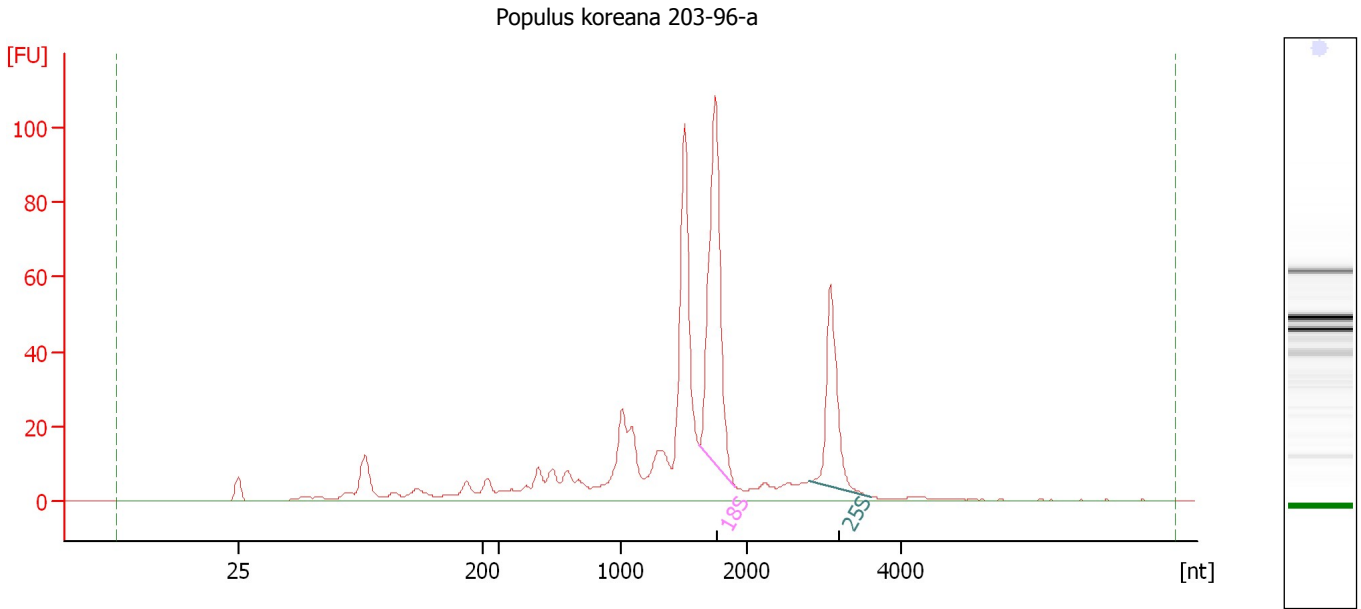
Fragment table for sample 6 : Liquidambar styraciflua 1248-79c

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,638	1,995	18.8	13.2
25S	2,776	3,685	24.3	17.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
Modified: 12/2/2014 2:57:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Populus koreana 203-96-a

RNA Area: 623.2 RNA Integrity Number (RIN): 6.1 (B.02.08)
RNA Concentration: 612 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.5 Result Flagging Label: RIN: 6.10

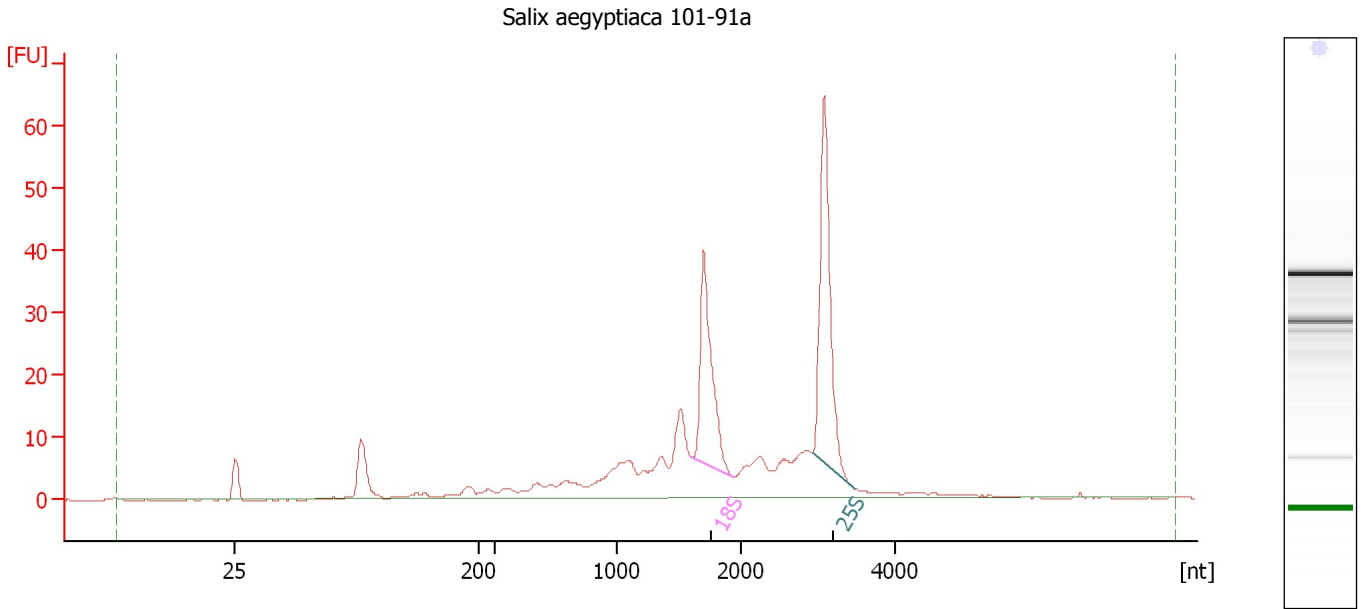
Fragment table for sample 7 : Populus koreana 203-96-a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	1,917	127.7	20.5
25S	2,819	3,607	58.9	9.5

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
 Modified: 12/2/2014 2:57:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Salix aegyptiaca 101-91a

RNA Area:	293.4	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	288 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 7.80

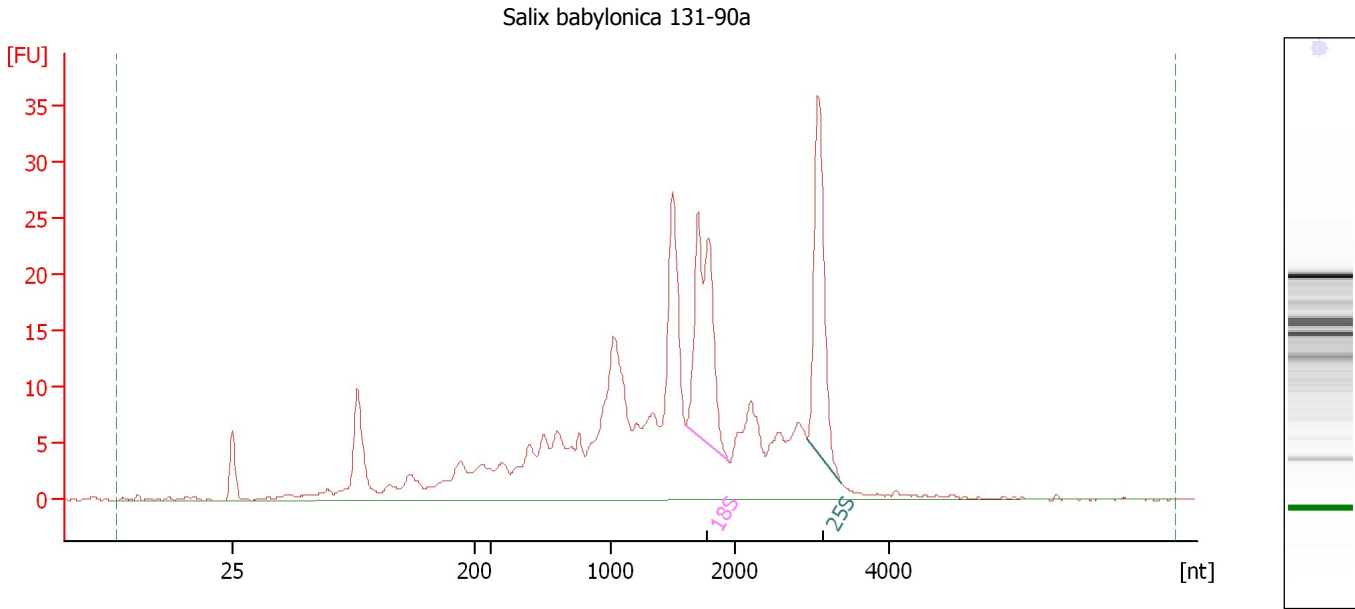
Fragment table for sample 8 : Salix aegyptiaca 101-91a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,599	1,933	44.0	15.0
25S	2,918	3,459	61.2	20.9

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
 Modified: 12/2/2014 2:57:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Salix babylonica 131-90a

RNA Area:	351.7	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	345 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.9	Result Flagging Label:	RIN: 6.50

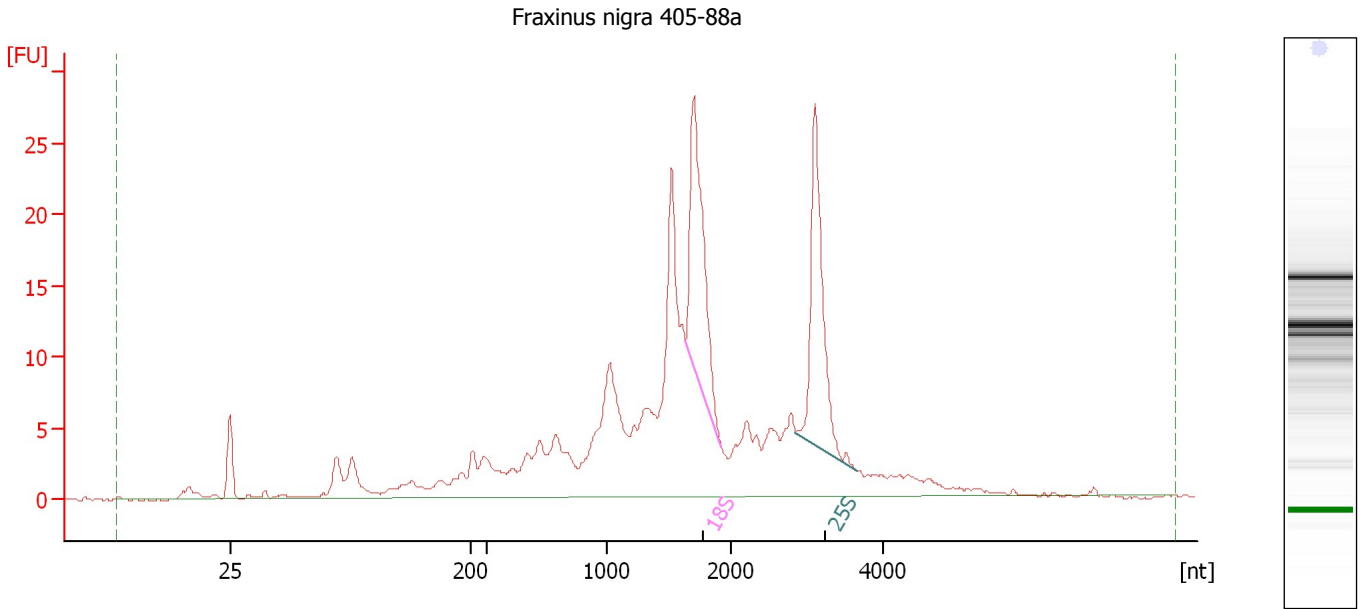
Fragment table for sample 9 : Salix babylonica 131-90a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,596	1,940	37.8	10.7
25S	2,935	3,368	32.3	9.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
Modified: 12/2/2014 2:57:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Fraxinus nigra 405-88a

RNA Area: 280.9 RNA Integrity Number (RIN): 6.3 (B.02.08)
RNA Concentration: 276 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.0 Result Flagging Label: RIN: 6.30

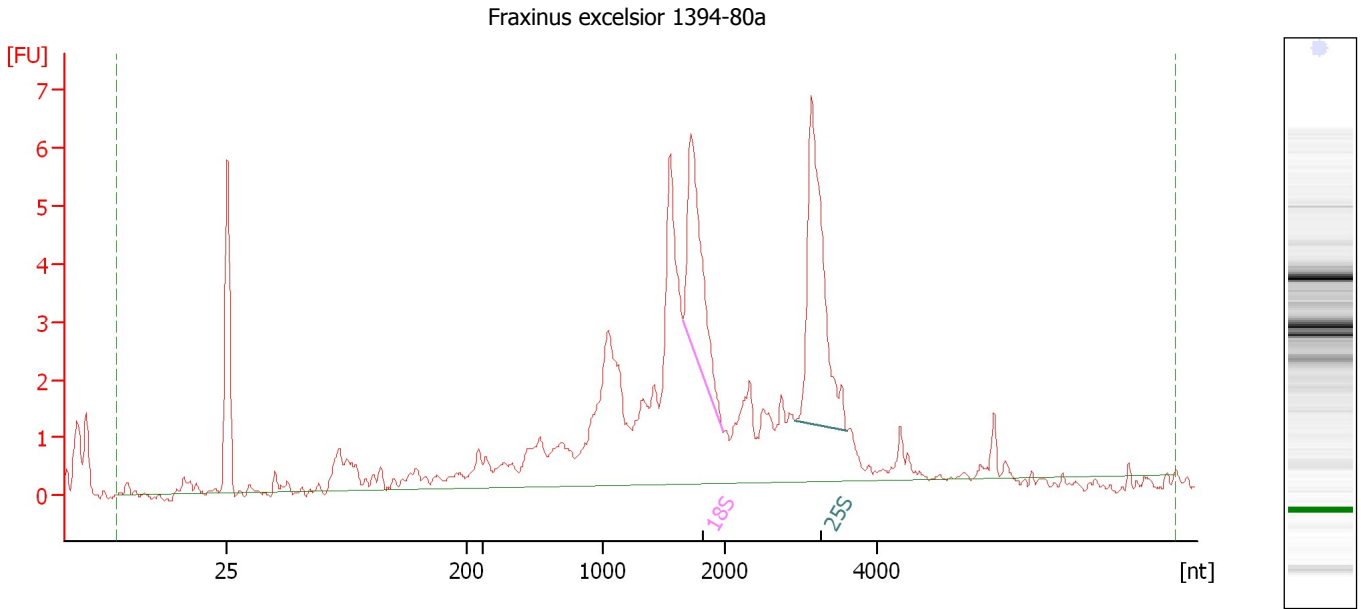
Fragment table for sample 10 : Fraxinus nigra 405-88a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	1,921	28.6	10.2
25S	2,840	3,638	28.4	10.1

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
 Modified: 12/2/2014 2:57:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Fraxinus excelsior 1394-80a

RNA Area:	73.7	RNA Integrity Number (RIN):	6.6 (B.02.08)
RNA Concentration:	72 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.5	Result Flagging Label:	RIN: 6.60

Fragment table for sample 11 : Fraxinus excelsior 1394-80a

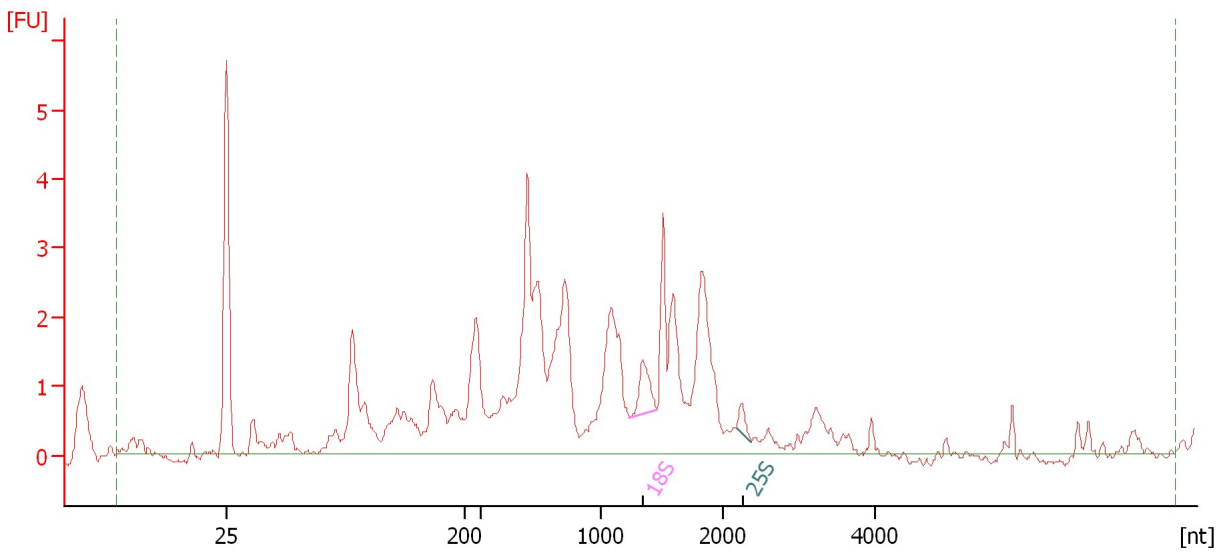
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	1,980	6.1	8.2
25S	2,927	3,604	9.1	12.3

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
 Modified: 12/2/2014 2:57:12 PM

Electropherogram Summary Continued ...

Liriodendron tulipifera 14992a



Overall Results for sample 12 : Liriodendron tulipifera 14992a

RNA Area:	56.2	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	55 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.3	Result Flagging Label:	RIN: 2.80

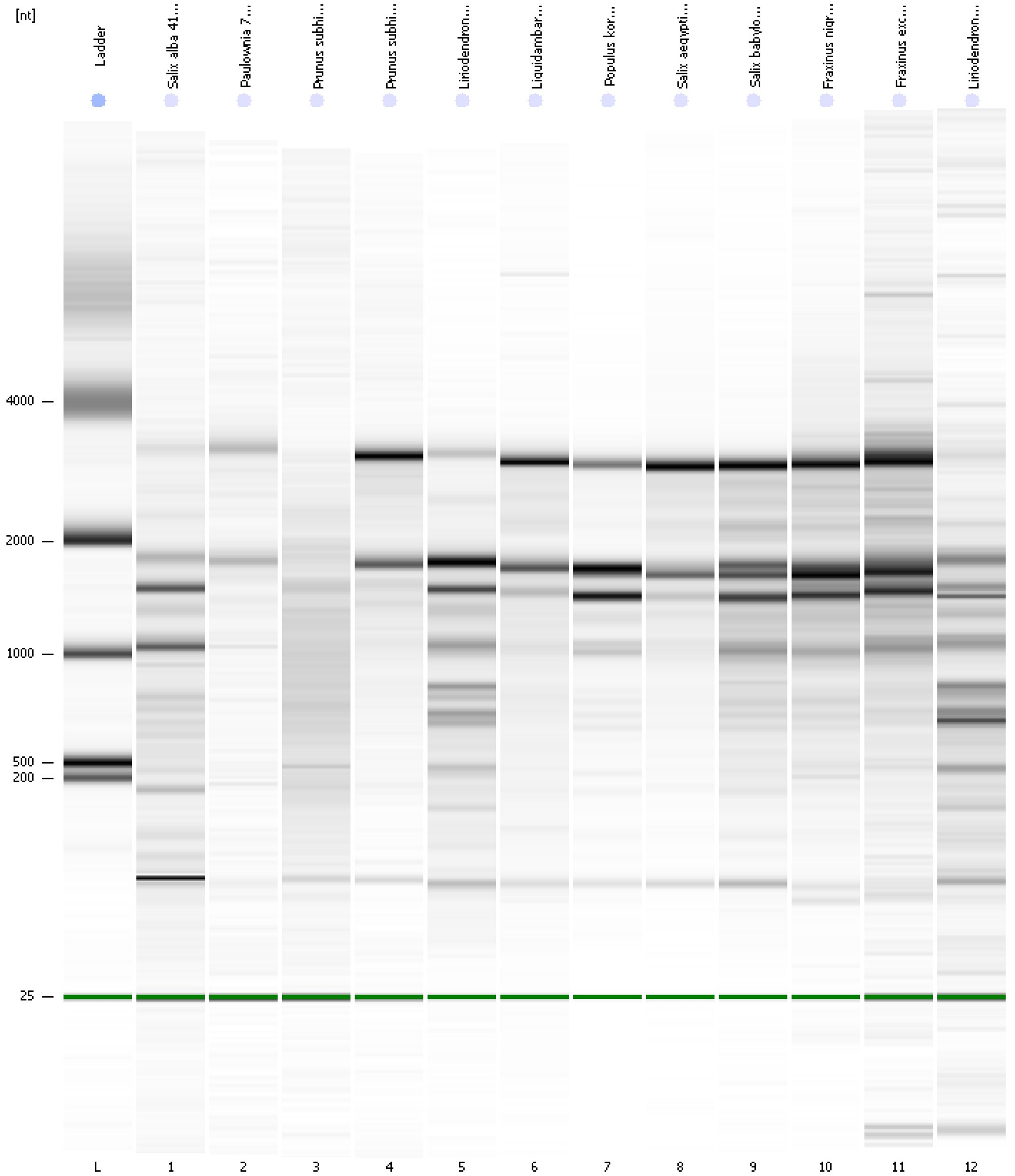
Fragment table for sample 12 : Liriodendron tulipifera 14992a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,240	1,457	0.9	1.7
25S	2,179	2,377	0.3	0.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
Modified: 12/2/2014 2:57:12 PM

Gel Image

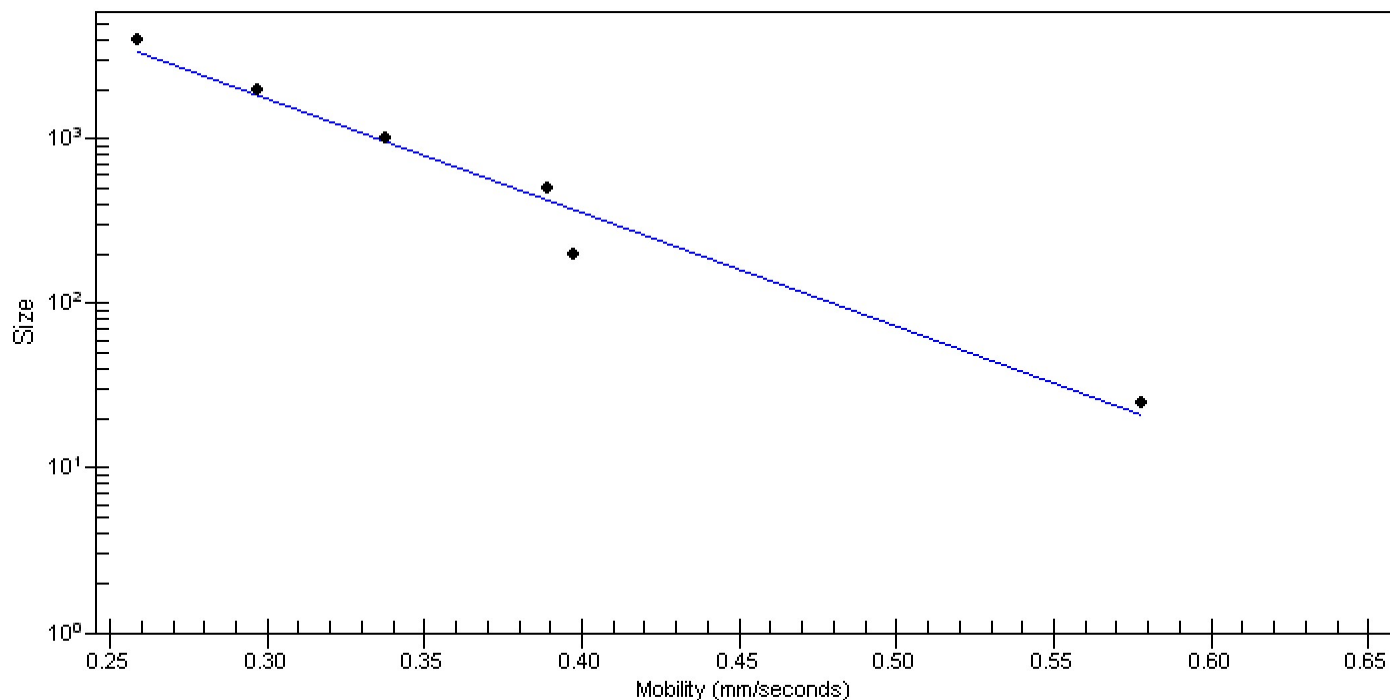


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
Modified: 12/2/2014 2:57:12 PM

Curves

Standard Curve



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad

Created: 12/2/2014 2:33:20 PM
 Modified: 12/2/2014 2:57:12 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		12/2/2014 2:57:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-12-02\2014-12-02_001.xad)		Instrument	Run		12/2/2014 2:33:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/2/2014 2:33:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/2/2014 2:33:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/2/2014 2:33:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/2/2014 2:33:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/2/2014 2:33:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/2/2014 2:33:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1