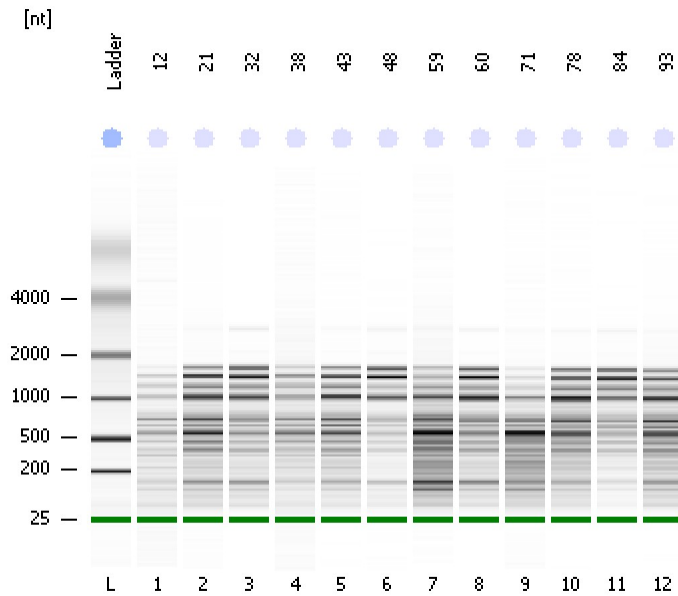


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

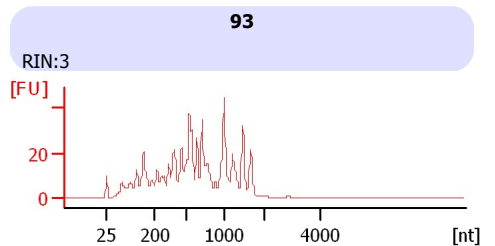
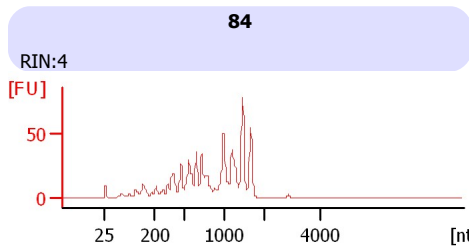
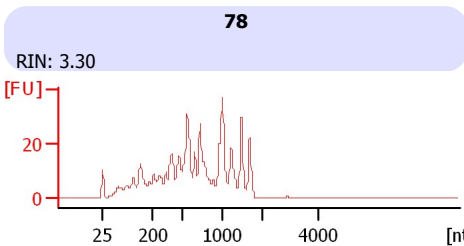
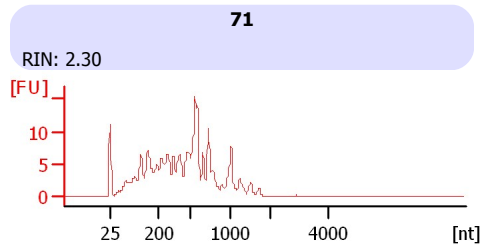
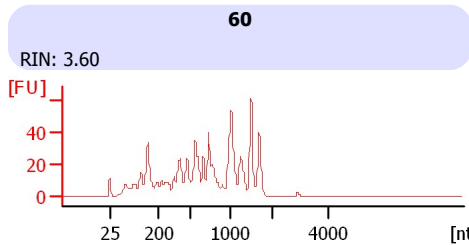
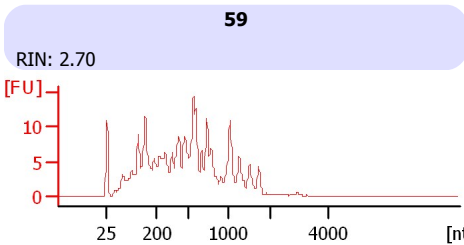
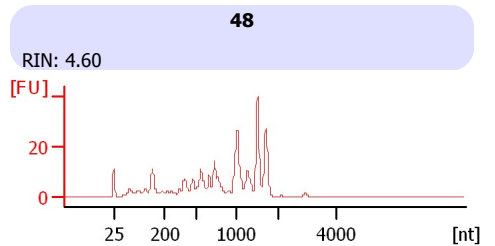
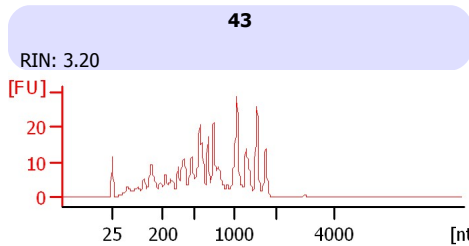
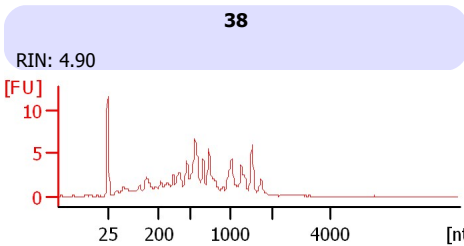
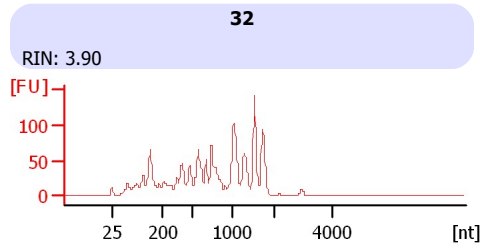
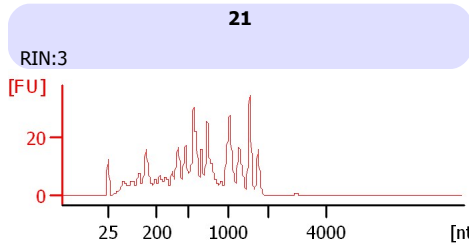
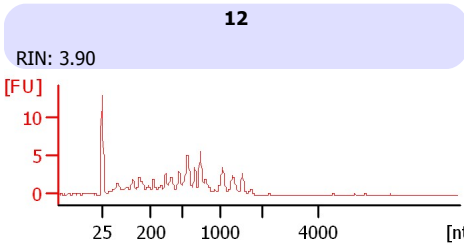
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

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:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
 Modified: 9/11/2019 3:57:56 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
12		✓	RIN: 3.90	
21		✓	RIN:3	
32		✓	RIN: 3.90	
38		✓	RIN: 4.90	
43		✓	RIN: 3.20	
48		✓	RIN: 4.60	
59		✓	RIN: 2.70	
60		✓	RIN: 3.60	
71		✓	RIN: 2.30	
78		✓	RIN: 3.30	
84		✓	RIN:4	
93		✓	RIN:3	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 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

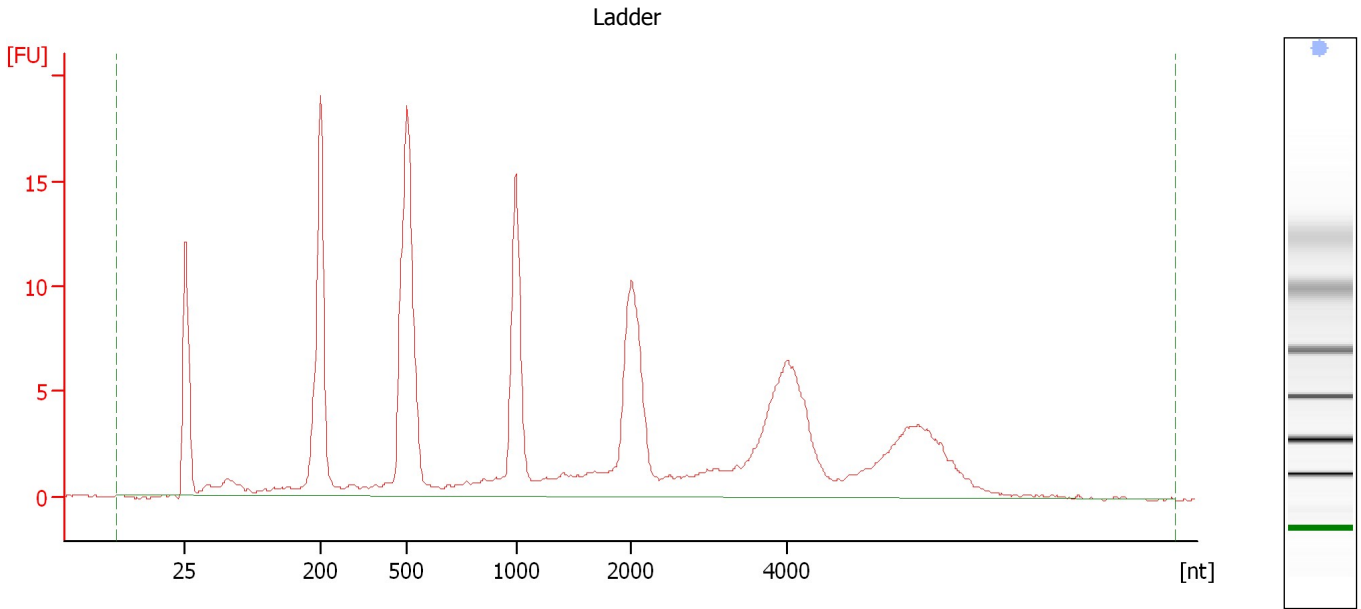
Ladder

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\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Electropherogram Summary



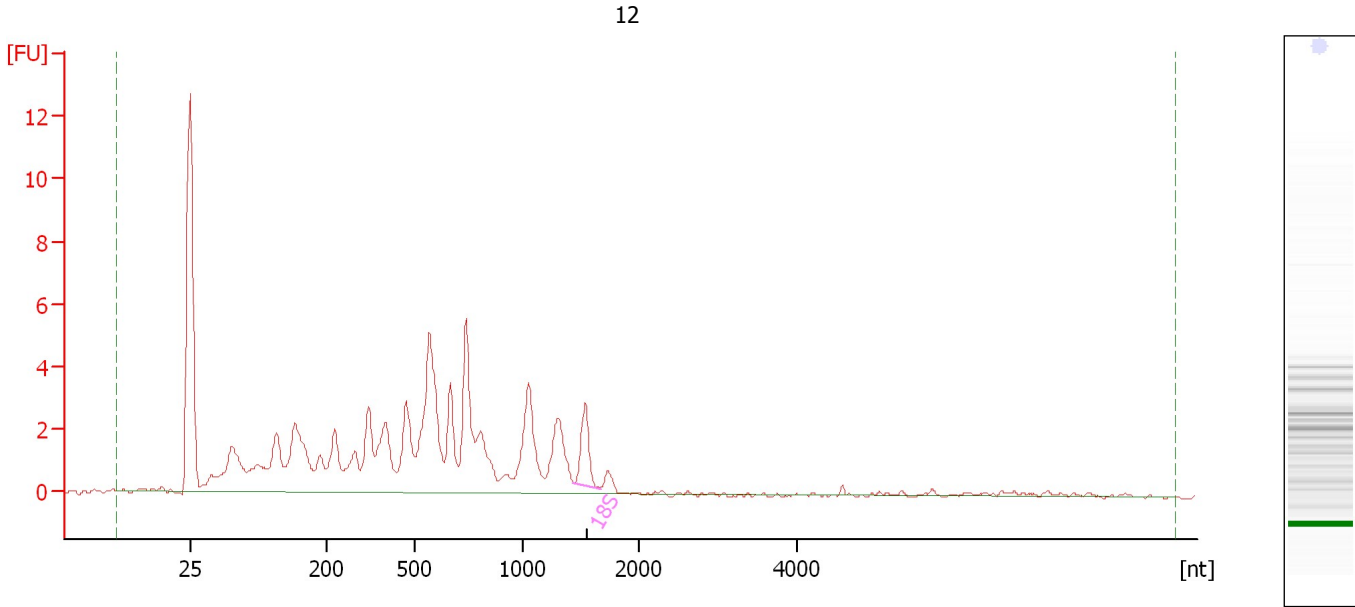
Overall Results for Ladder

RNA Area:	198.8	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 12

RNA Area:	83.9	RNA Integrity Number (RIN):	3.9 (B.02.08)
RNA Concentration:	63 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 3.90

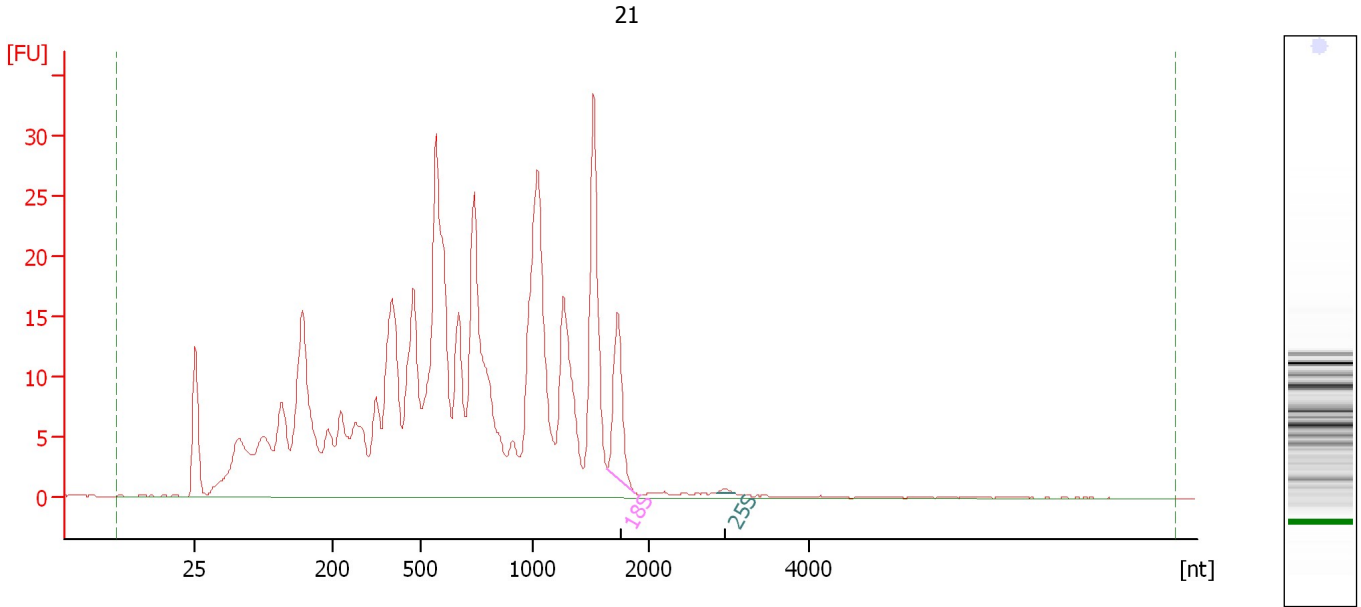
Fragment table for sample 1 : 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,428	1,660	2.5	3.0

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 21

RNA Area:	511.0	RNA Integrity Number (RIN):	3 (B.02.08)
RNA Concentration:	386 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:3

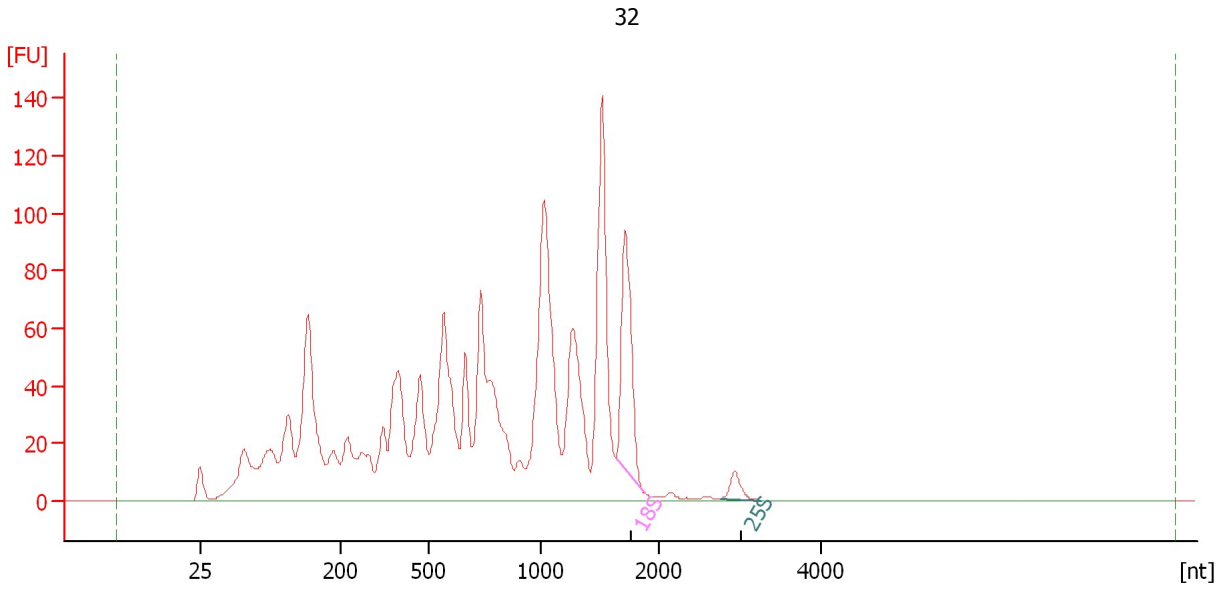
Fragment table for sample 2 : 21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,640	1,869	14.6	2.9
25S	2,856	3,084	0.3	0.1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 32

RNA Area:	1,734.9	RNA Integrity Number (RIN):	3.9 (B.02.08)
RNA Concentration:	1,309 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.1	Result Flagging Label:	RIN: 3.90

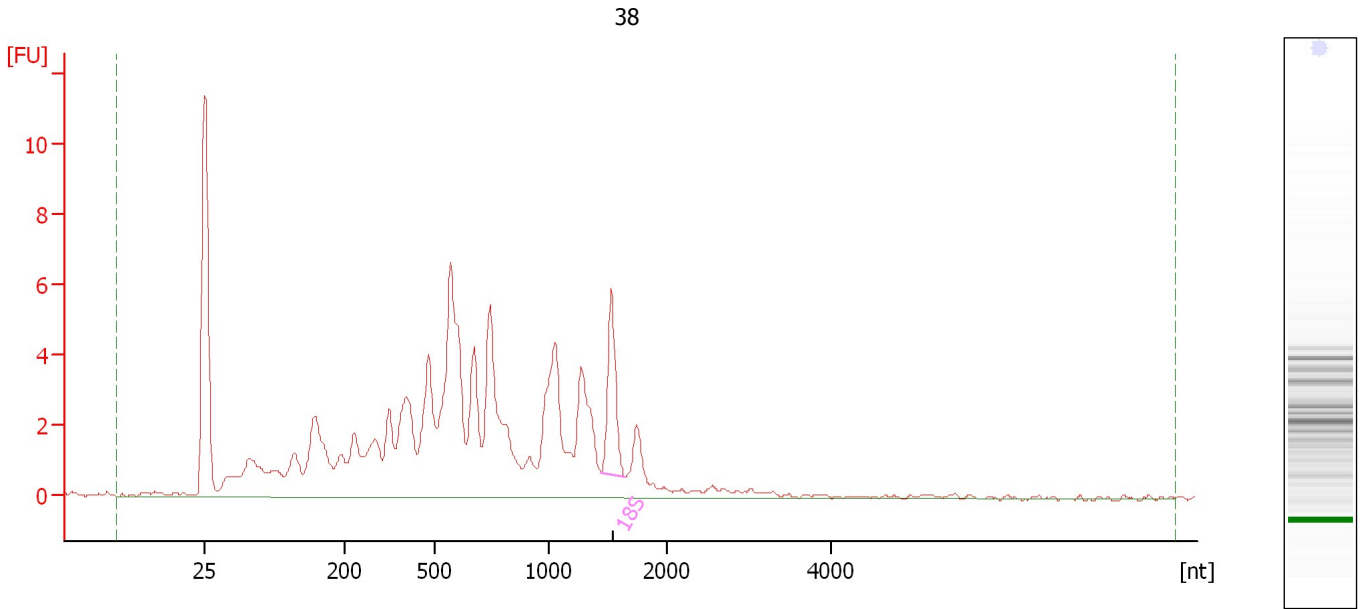
Fragment table for sample 3 : 32

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,629	1,874	101.5	5.8
25S	2,772	3,251	11.3	0.7

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 38

RNA Area:	108.8	RNA Integrity Number (RIN):	4.9 (B.02.08)
RNA Concentration:	82 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 4.90

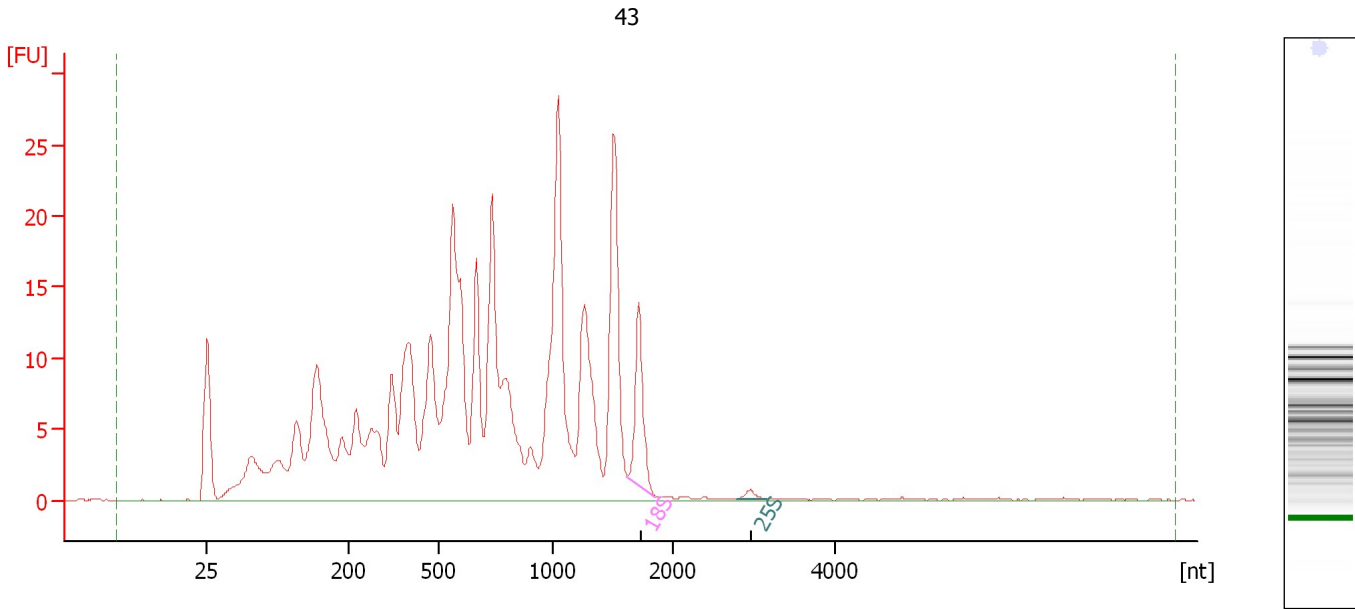
Fragment table for sample 4 : 38

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,437	1,644	5.1	4.7

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 43

RNA Area:	375.4	RNA Integrity Number (RIN):	3.2 (B.02.08)
RNA Concentration:	283 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.1	Result Flagging Label:	RIN: 3.20

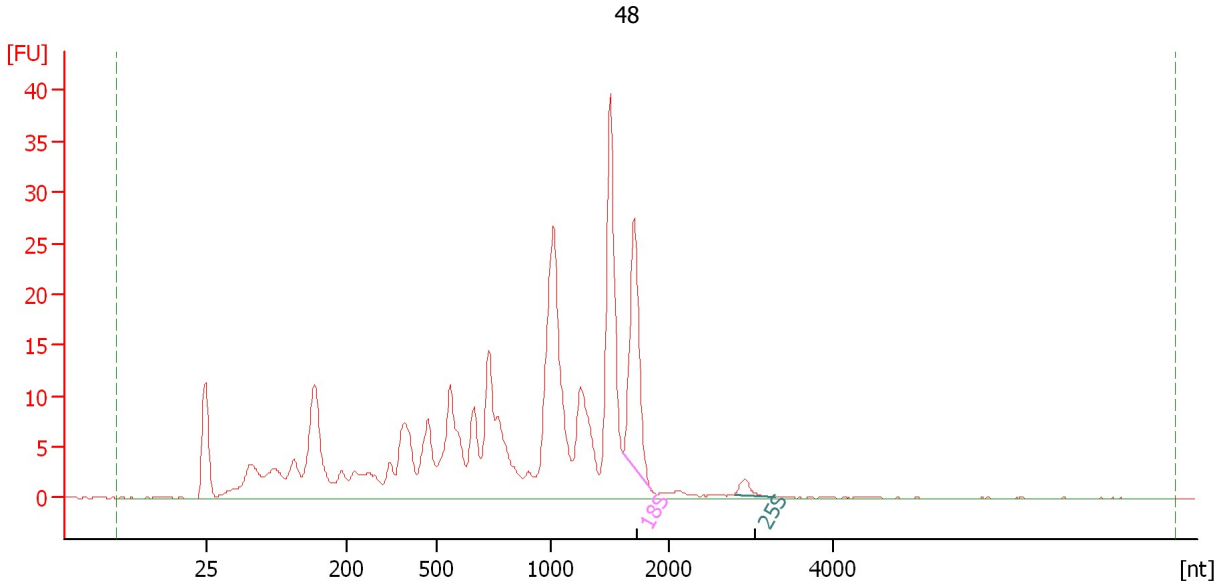
Fragment table for sample 5 : 43

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,629	1,862	12.1	3.2
25S	2,808	3,176	0.6	0.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 48

RNA Area: 337.9 RNA Integrity Number (RIN): 4.6 (B.02.08)
RNA Concentration: 255 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.1 Result Flagging Label: RIN: 4.60

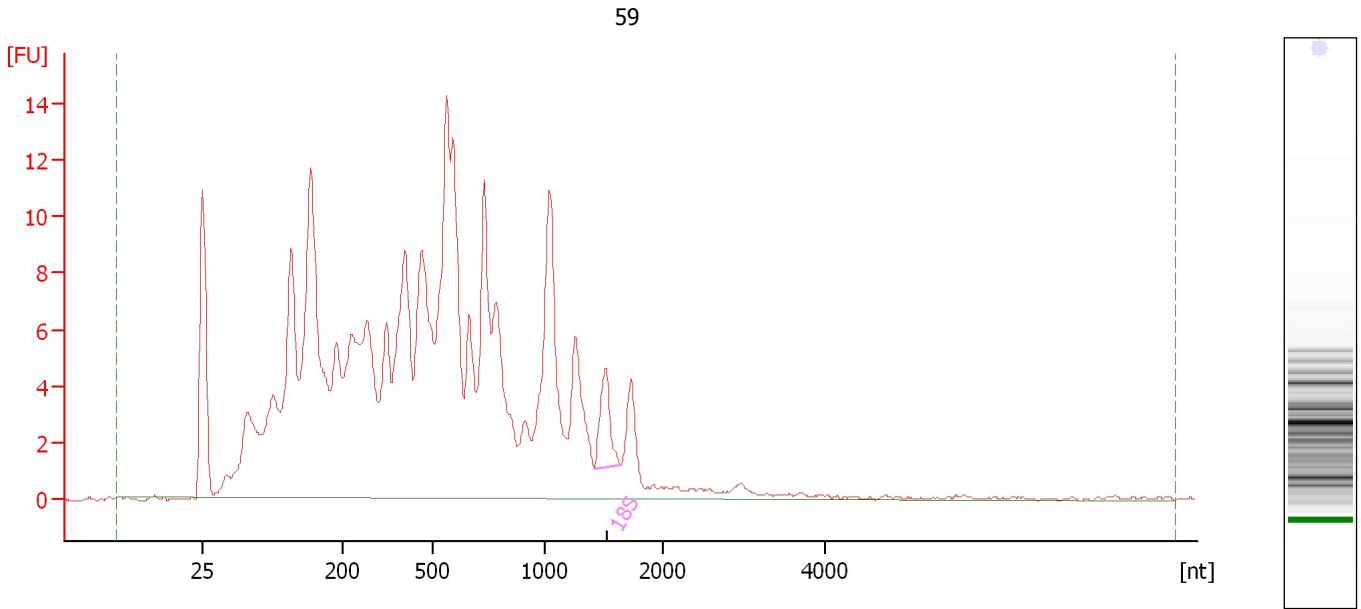
Fragment table for sample 6 : 48

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,610	1,834	28.3	8.4
25S	2,796	3,282	1.9	0.6

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 59

RNA Area:	287.4	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	217 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

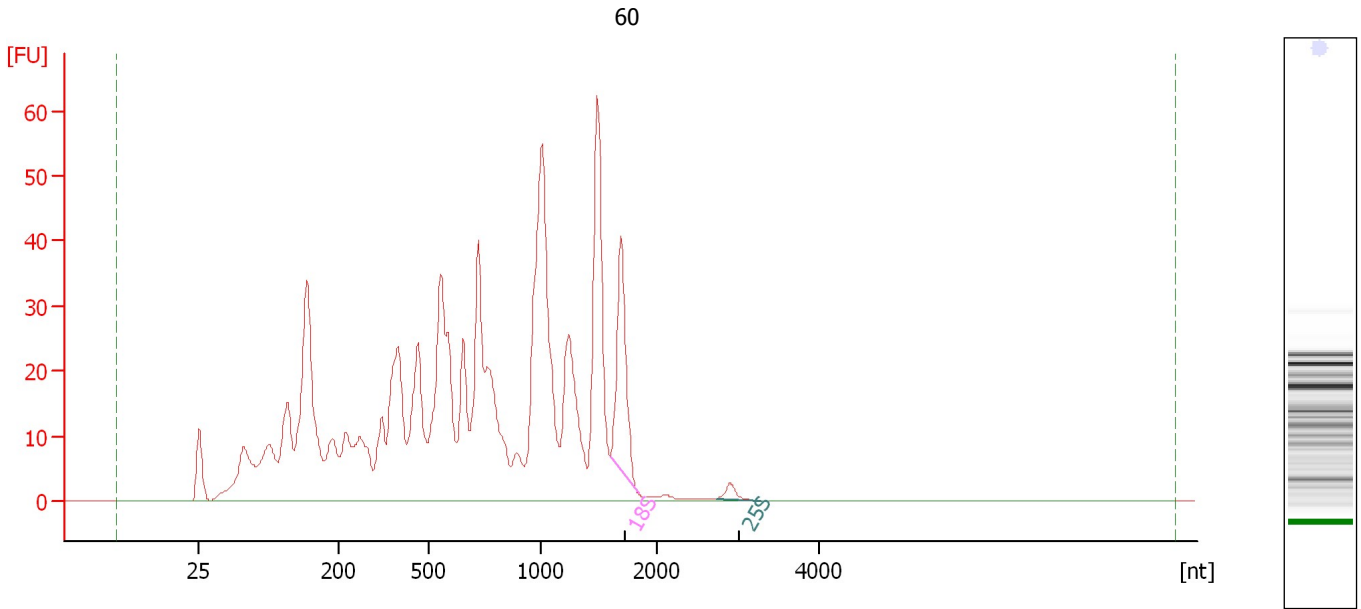
Fragment table for sample 7 : 59

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,415	1,632	4.4	1.5

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 60

RNA Area: 842.1 RNA Integrity Number (RIN): 3.6 (B.02.08)
RNA Concentration: 635 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.1 Result Flagging Label: RIN: 3.60

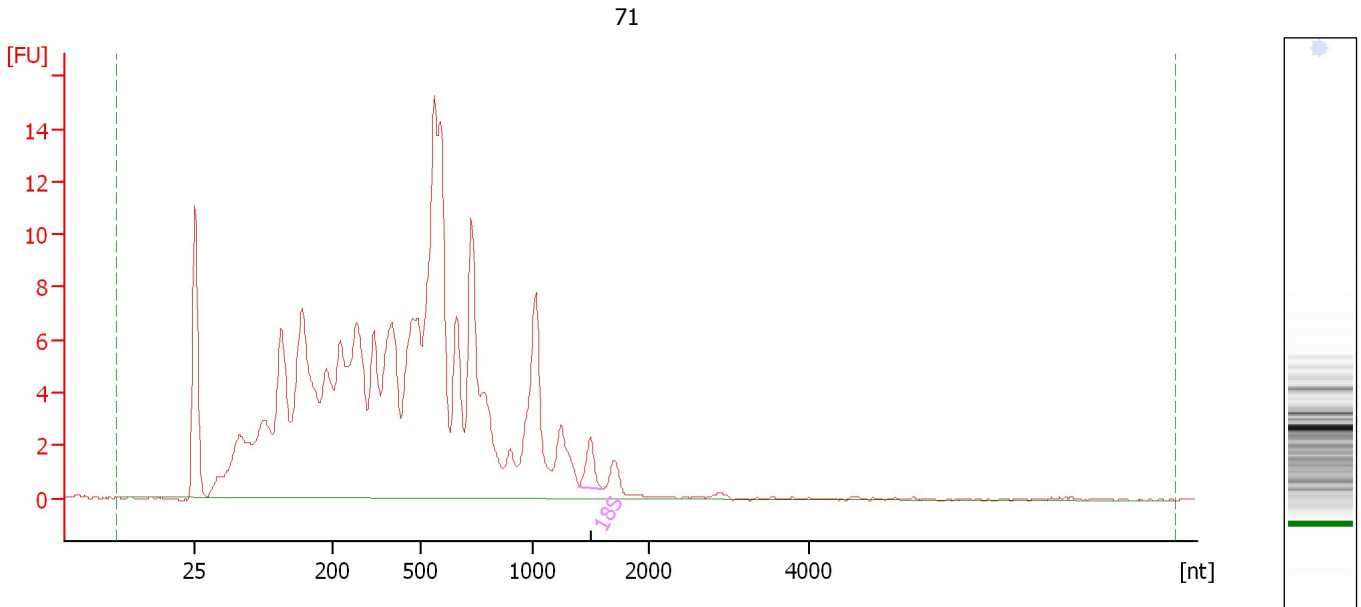
Fragment table for sample 8 : 60

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,600	1,836	40.0	4.8
25S	2,733	3,279	2.9	0.3

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 71

RNA Area:	231.5	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	175 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

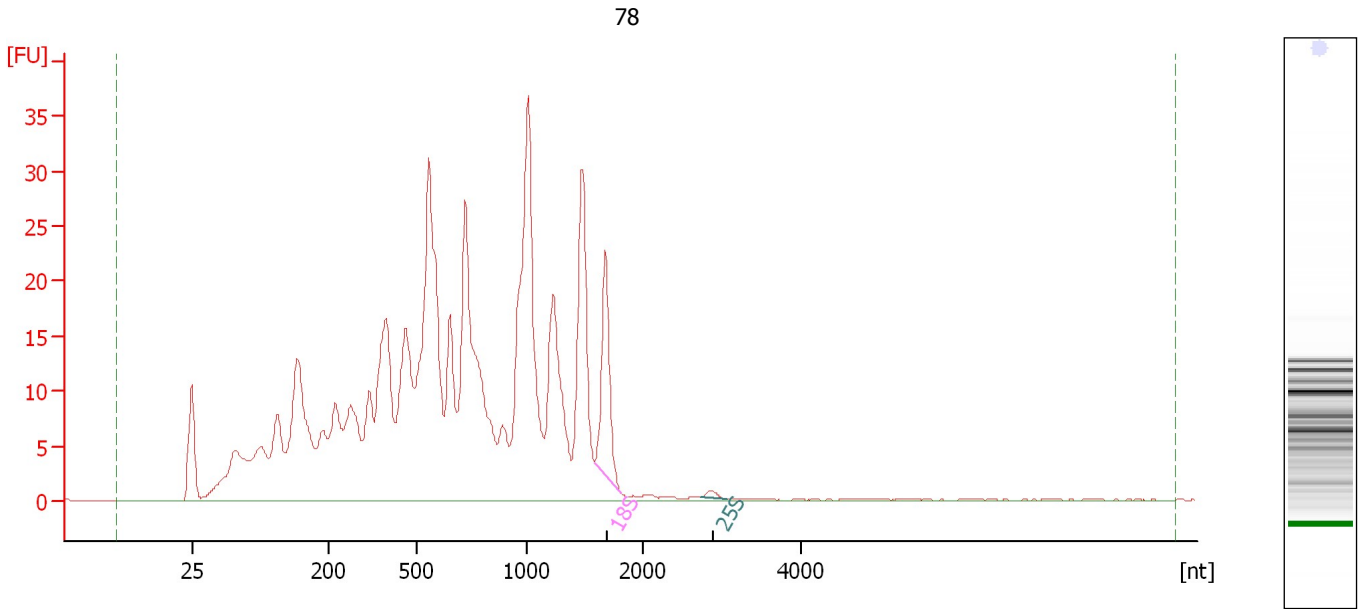
Fragment table for sample 9 : 71

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,401	1,603	2.0	0.9

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 78

RNA Area:	568.9	RNA Integrity Number (RIN):	3.3 (B.02.08)
RNA Concentration:	429 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 3.30

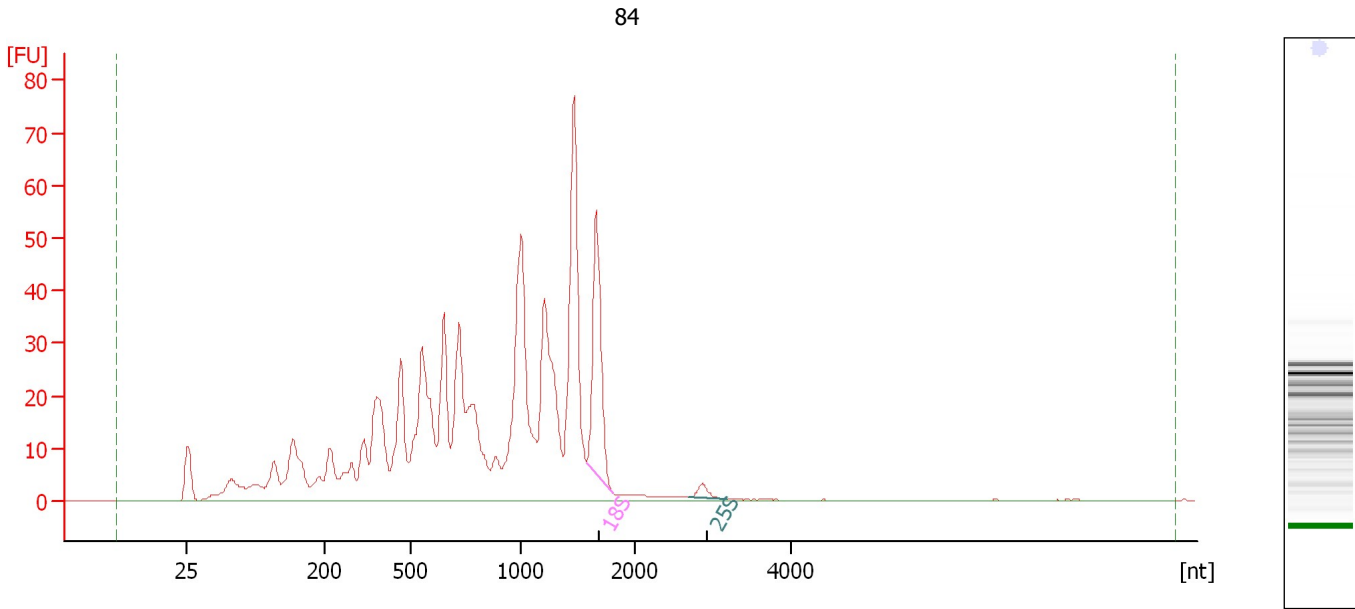
Fragment table for sample 10 : 78

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,580	1,810	20.6	3.6
25S	2,723	3,047	0.8	0.1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 84

RNA Area: 739.3 RNA Integrity Number (RIN): 4 (B.02.08)
RNA Concentration: 558 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.1 Result Flagging Label: RIN:4

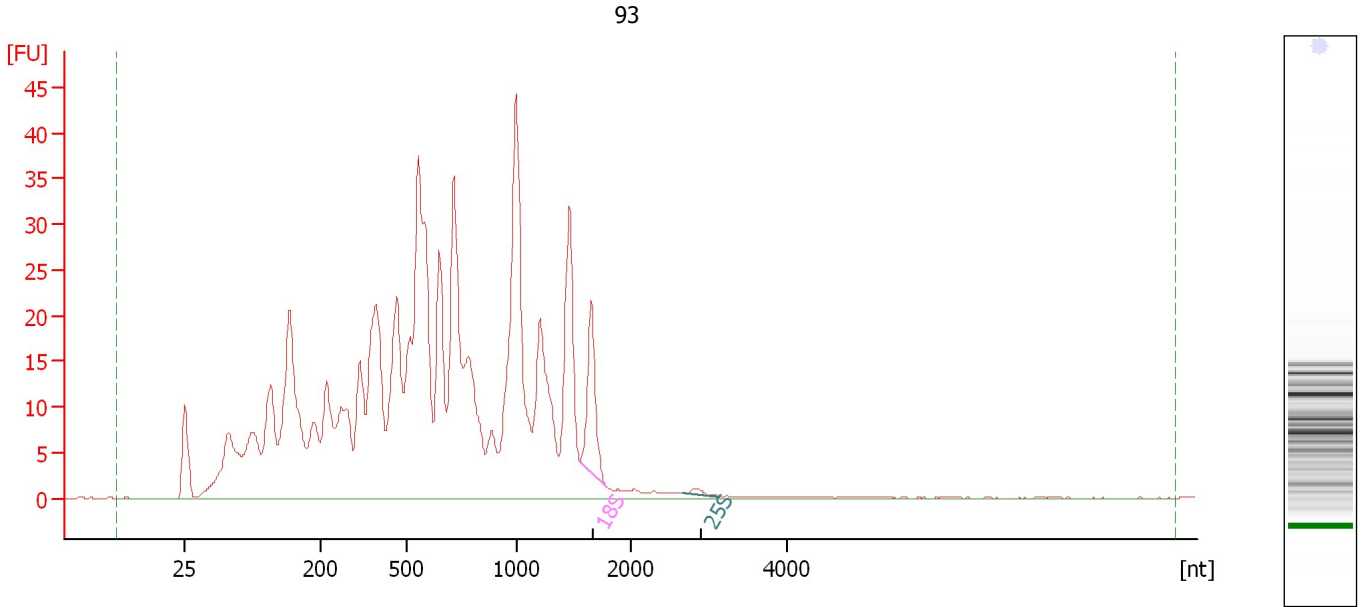
Fragment table for sample 11 : 84

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,573	1,806	50.7	6.9
25S	2,684	3,175	3.1	0.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 93

RNA Area: 697.2 RNA Integrity Number (RIN): 3 (B.02.08)
RNA Concentration: 526 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN:3

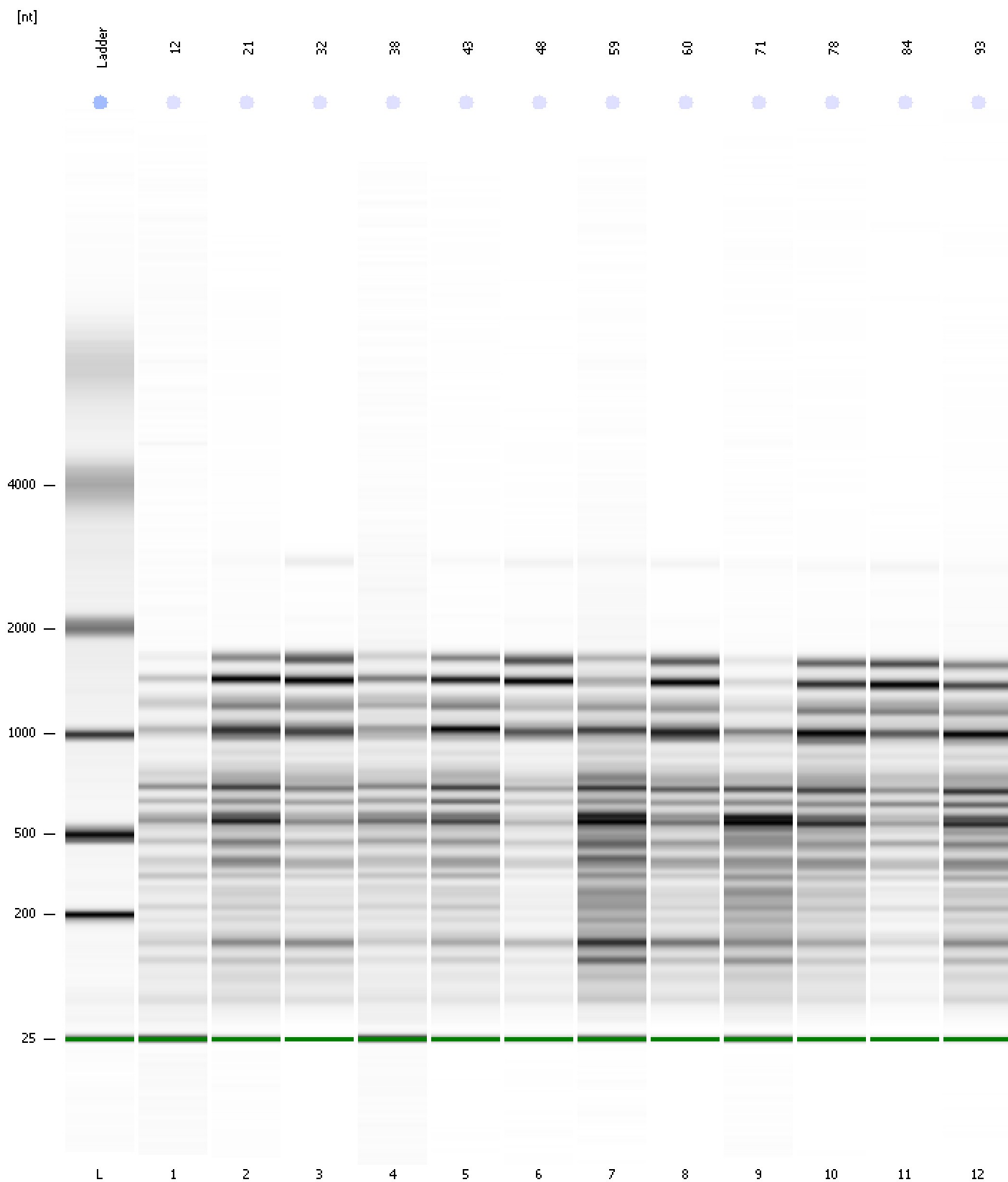
Fragment table for sample 12 : 93

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,560	1,794	19.2	2.8
25S	2,671	3,123	0.9	0.1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Gel Image

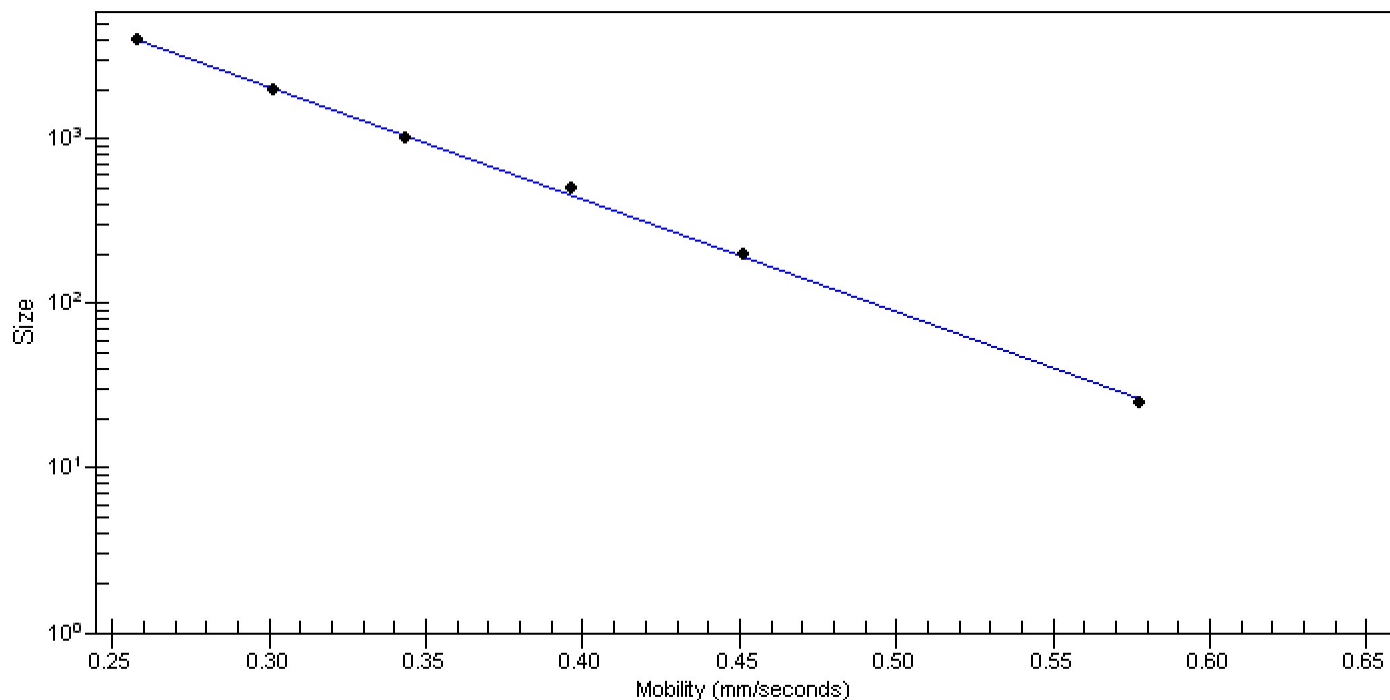


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
Modified: 9/11/2019 3:57:56 PM

Curves

Standard Curve



Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad

Created: 9/11/2019 3:34:03 PM
 Modified: 9/11/2019 3:57:56 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		9/11/2019 3:57:54 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_005.xad)		Instrument	Run		9/11/2019 3:34:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/11/2019 3:34:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/11/2019 3:34:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/11/2019 3:34:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/11/2019 3:34:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/11/2019 3:34:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/11/2019 3:34:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1