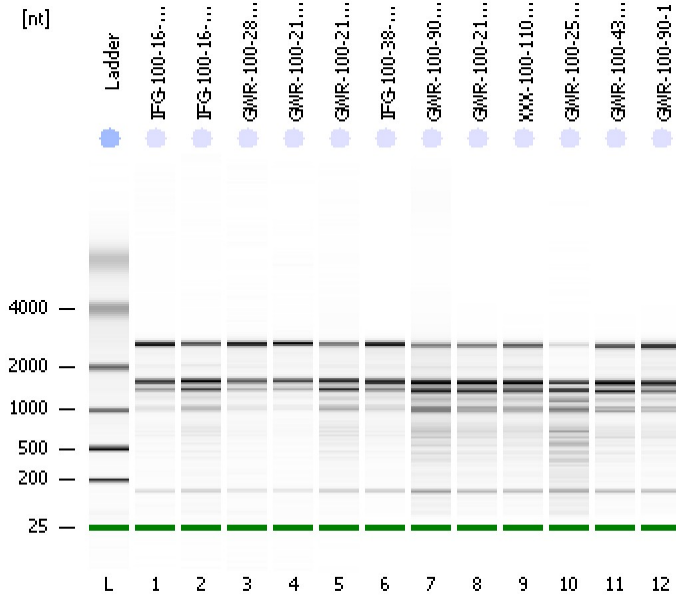


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 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

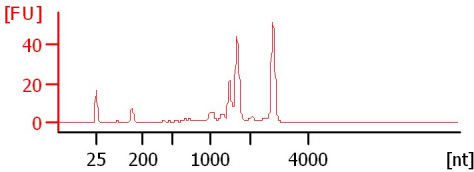
Assay Class: Plant RNA Nano
Version: 1.3
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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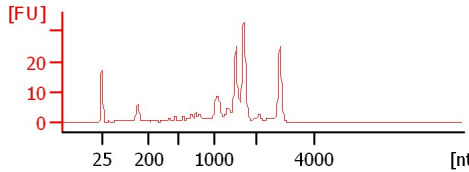
Chip Information:

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

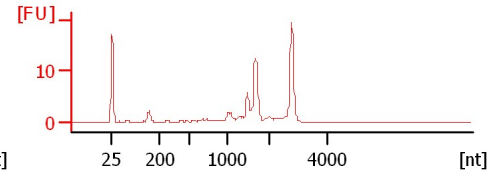
IFG-100-16-3-TW
RIN: 7.60



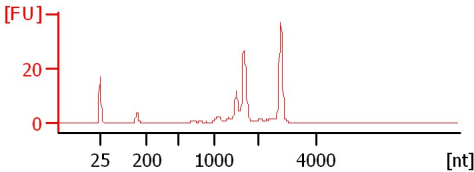
IFG-100-16-4-OW
RIN: 6.60



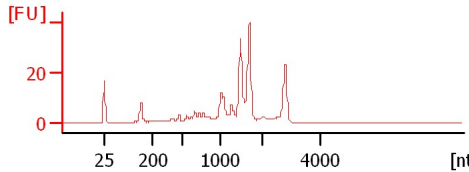
GWR-100-283-3-TW
RIN: 8.30



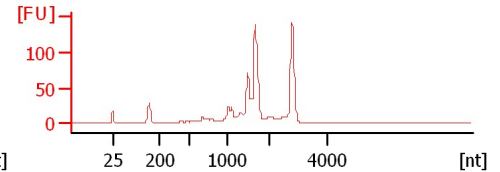
GWR-100-210-1-TW
RIN: 8.20



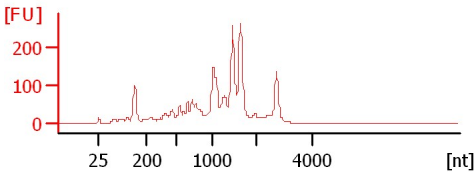
GWR-100-212-3-OW
RIN: 6.20



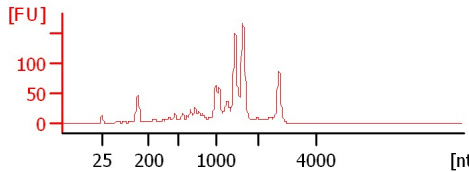
IFG-100-38-1-TW
RIN: 7.20



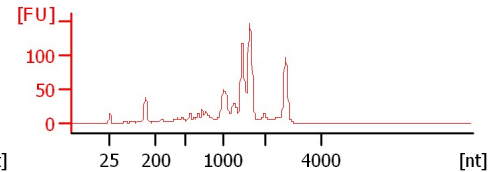
GWR-100-90-6-NW
RIN: 5.40



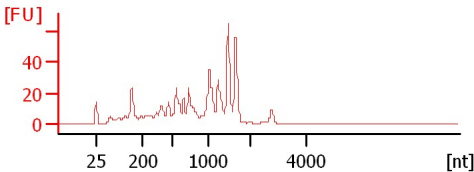
GWR-100-212-7-NW
RIN: 5.80



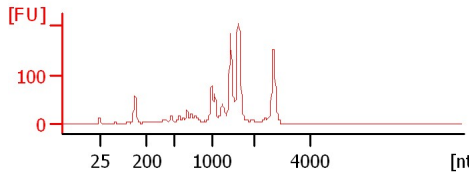
XXX-100-110-3-OW
RIN: 6.10



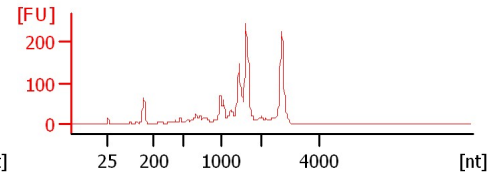
GWR-100-258-5-NW
RIN: 4.70



GWR-100-431-3-TW
RIN: 6.20



GWR-100-90-1
RIN: 6.60



Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
 Modified: 8/29/2018 2:29:30 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
IFG-100-16-3-TW		✓	RIN: 7.60	
IFG-100-16-4-OW		✓	RIN: 6.60	
GWR-100-283-3-TW		✓	RIN: 8.30	
GWR-100-210-1-TW		✓	RIN: 8.20	
GWR-100-212-3-OW		✓	RIN: 6.20	
IFG-100-38-1-TW		✓	RIN: 7.20	
GWR-100-90-6-NW		✓	RIN: 5.40	
GWR-100-212-7-NW		✓	RIN: 5.80	
XXX-100-110-3-OW		✓	RIN: 6.10	
GWR-100-258-5-NW		✓	RIN: 4.70	
GWR-100-431-3-TW		✓	RIN: 6.20	
GWR-100-90-1		✓	RIN: 6.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 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

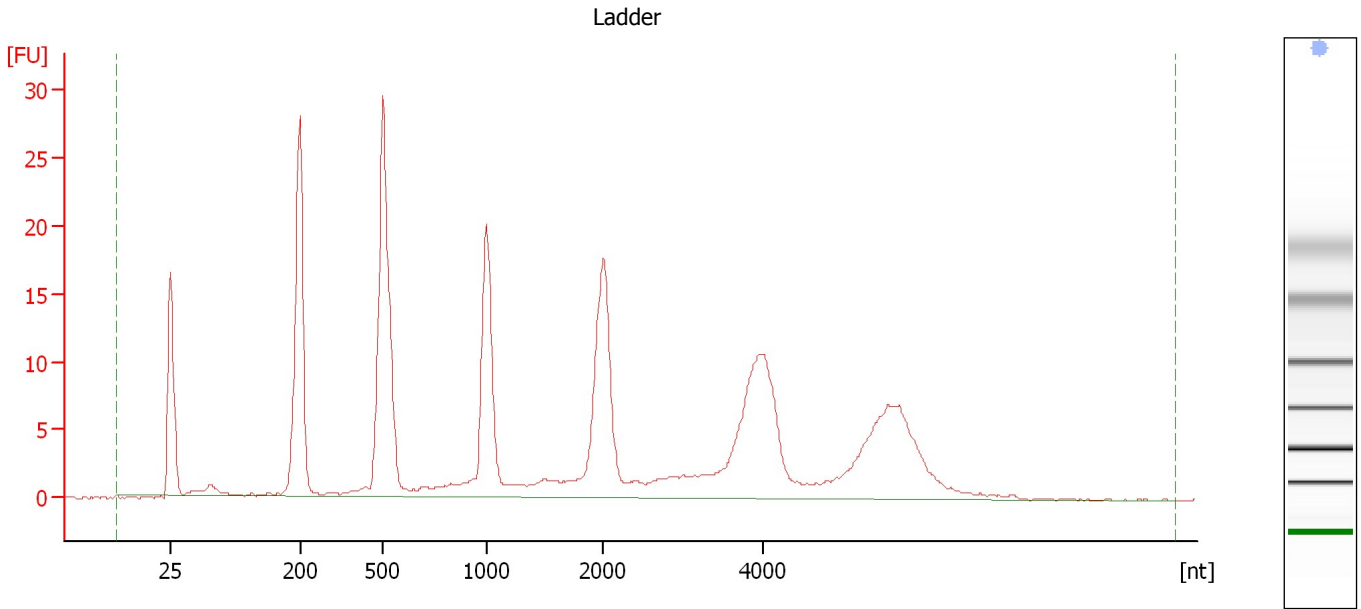
Ladder

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\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 PM

Electropherogram Summary



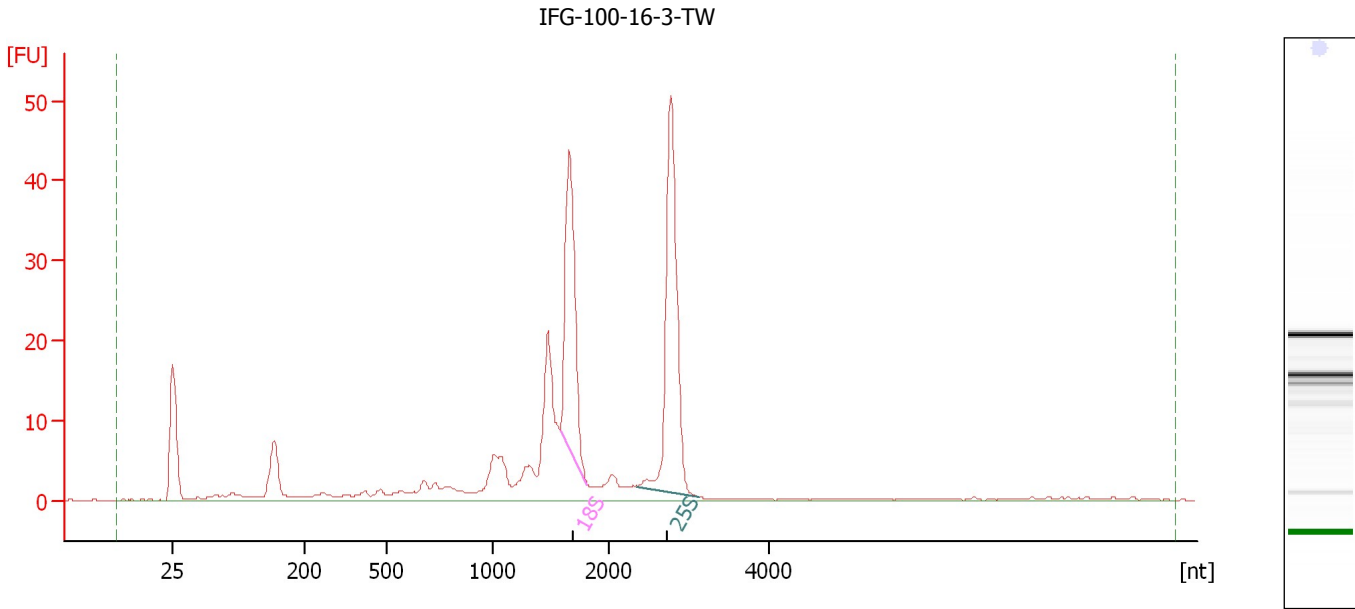
Overall Results for Ladder

RNA Area:	281.8	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\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : IFG-100-16-3-TW

RNA Area: 264.0 RNA Integrity Number (RIN): 7.6 (B.02.08)
RNA Concentration: 141 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 7.60

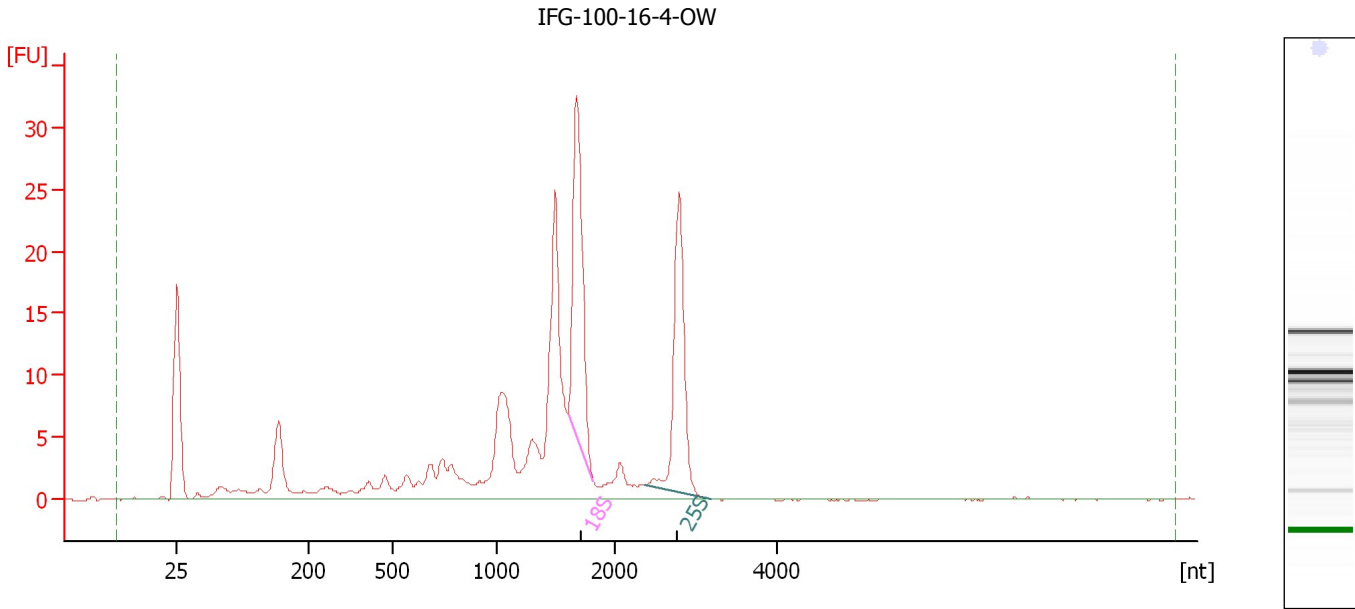
Fragment table for sample 1 : IFG-100-16-3-TW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	1,810	47.1	17.8
25S	2,349	3,109	64.7	24.5

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : IFG-100-16-4-OW

RNA Area: 208.3 RNA Integrity Number (RIN): 6.6 (B.02.08)
RNA Concentration: 111 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN: 6.60

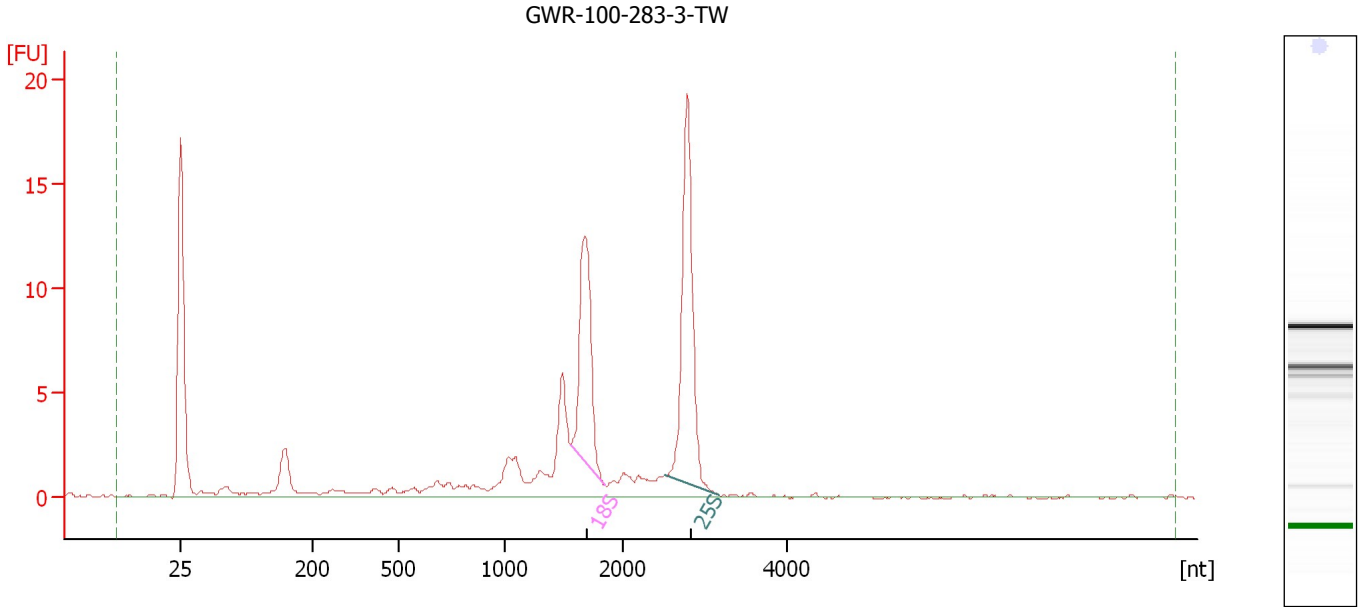
Fragment table for sample 2 : IFG-100-16-4-OW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,597	1,814	34.8	16.7
25S	2,363	3,184	29.1	14.0

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : GWR-100-283-3-TW

RNA Area: 85.0 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 45 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 8.30

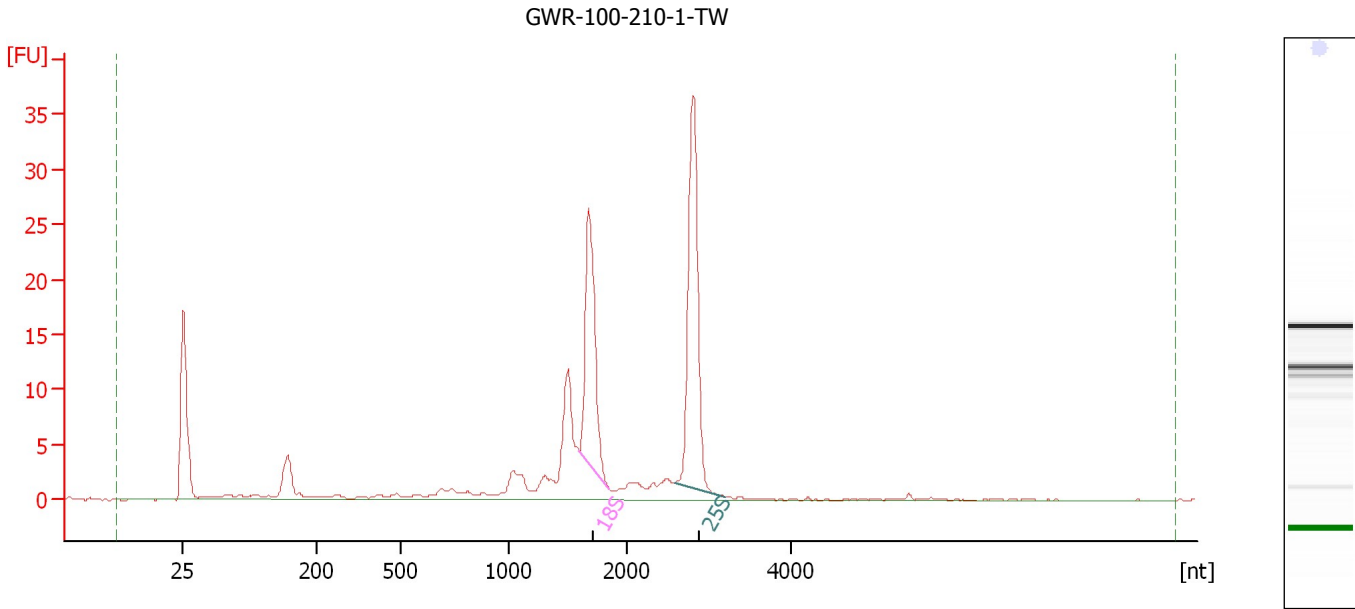
Fragment table for sample 3 : GWR-100-283-3-TW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,549	1,836	16.1	18.9
25S	2,509	3,178	22.9	26.9

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : GWR-100-210-1-TW

RNA Area: 141.5 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 75 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.3 Result Flagging Label: RIN: 8.20

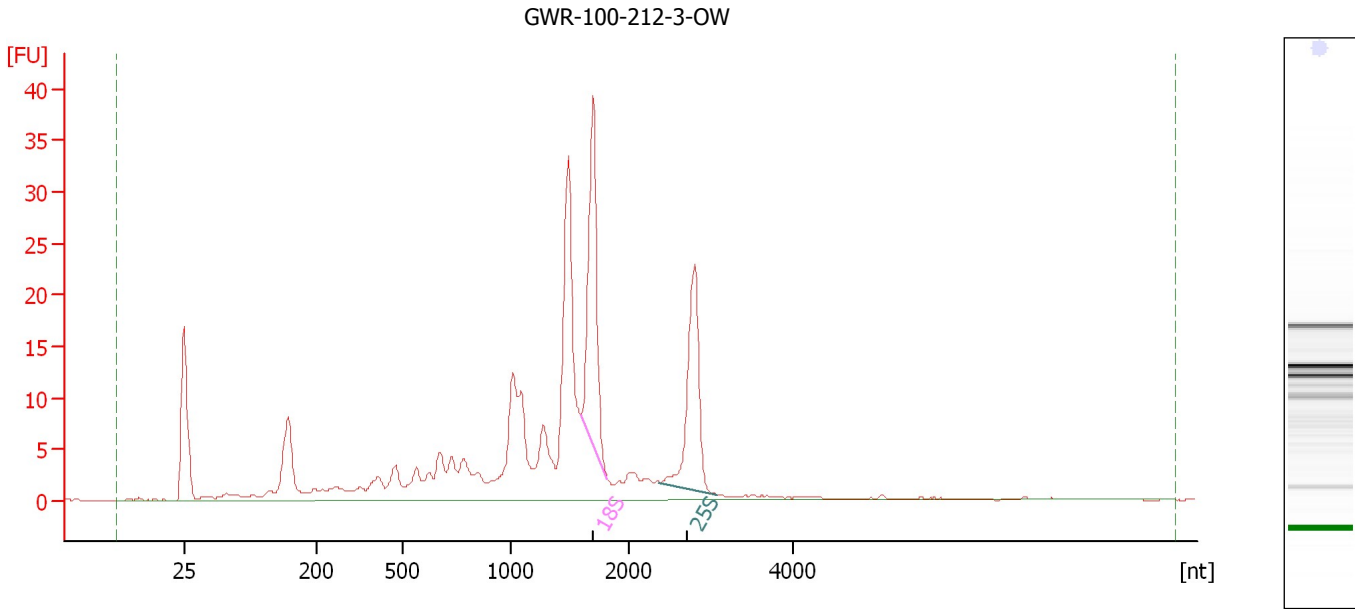
Fragment table for sample 4 : GWR-100-210-1-TW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,597	1,847	29.6	20.9
25S	2,574	3,188	39.1	27.7

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : GWR-100-212-3-OW

RNA Area: 267.9 RNA Integrity Number (RIN): 6.2 (B.02.08)
RNA Concentration: 143 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN: 6.20

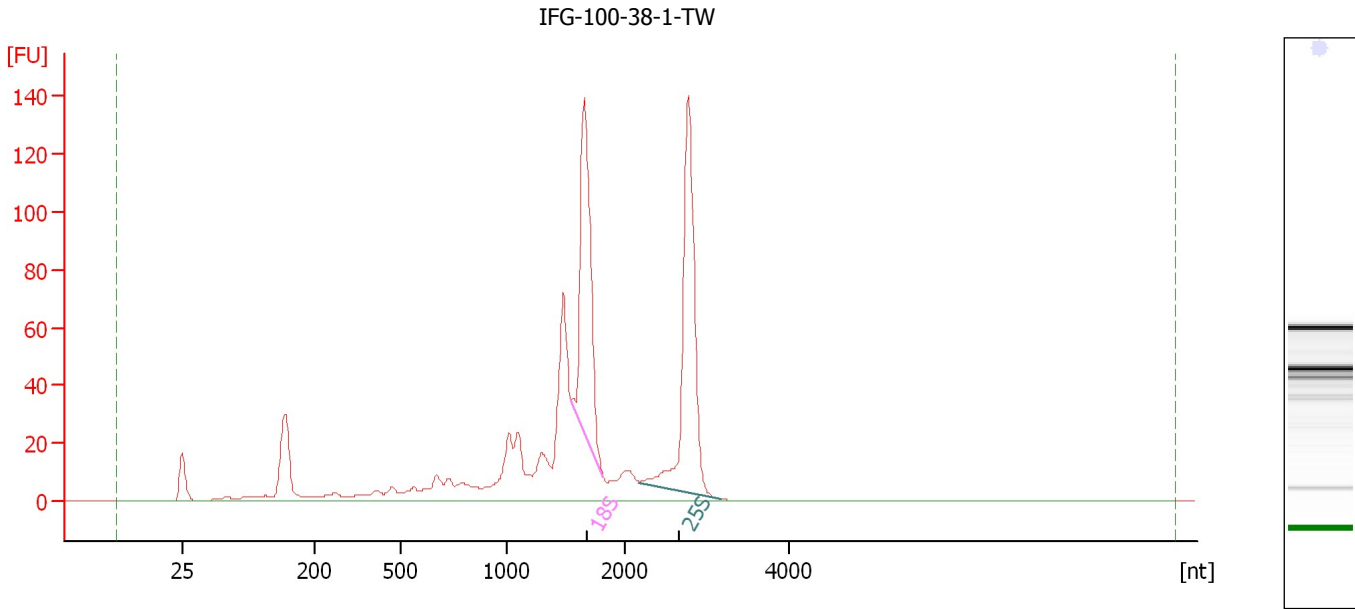
Fragment table for sample 5 : GWR-100-212-3-OW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,599	1,813	35.9	13.4
25S	2,365	3,056	28.3	10.6

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : IFG-100-38-1-TW

RNA Area: 837.3 RNA Integrity Number (RIN): 7.2 (B.02.08)
RNA Concentration: 446 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN: 7.20

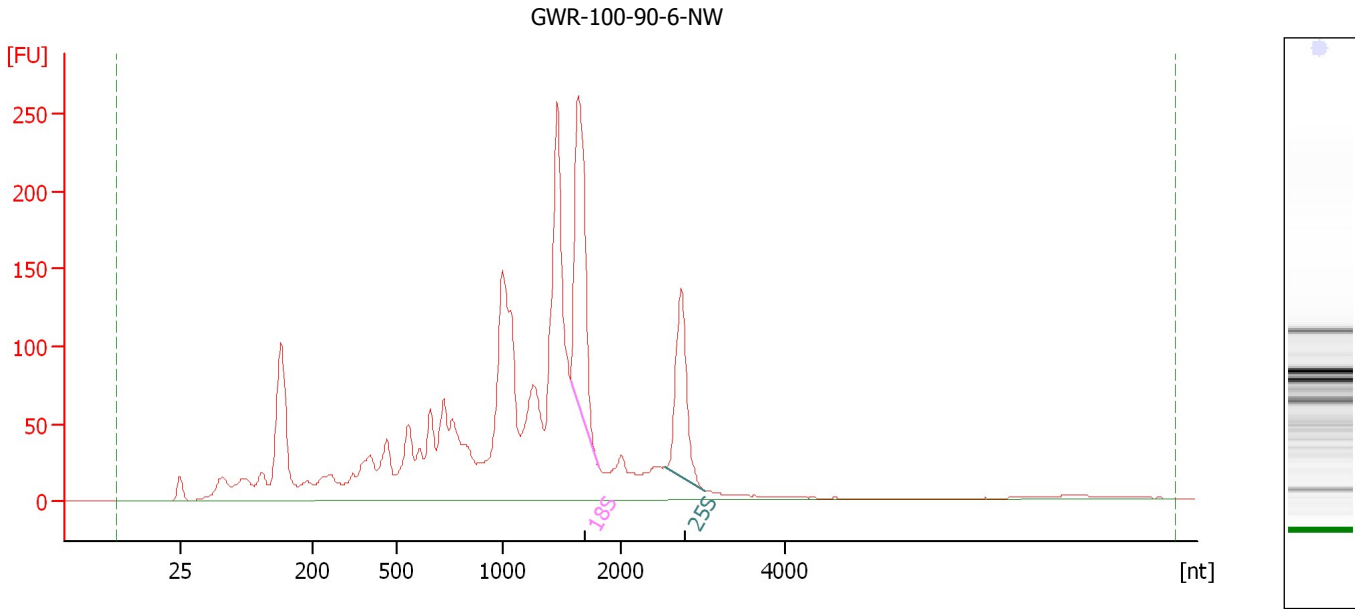
Fragment table for sample 6 : IFG-100-38-1-TW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,542	1,810	152.3	18.2
25S	2,168	3,163	186.4	22.3

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : GWR-100-90-6-NW

RNA Area: 2,836.7 RNA Integrity Number (RIN): 5.4 (B.02.08)
RNA Concentration: 1,510 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.6 Result Flagging Label: RIN: 5.40

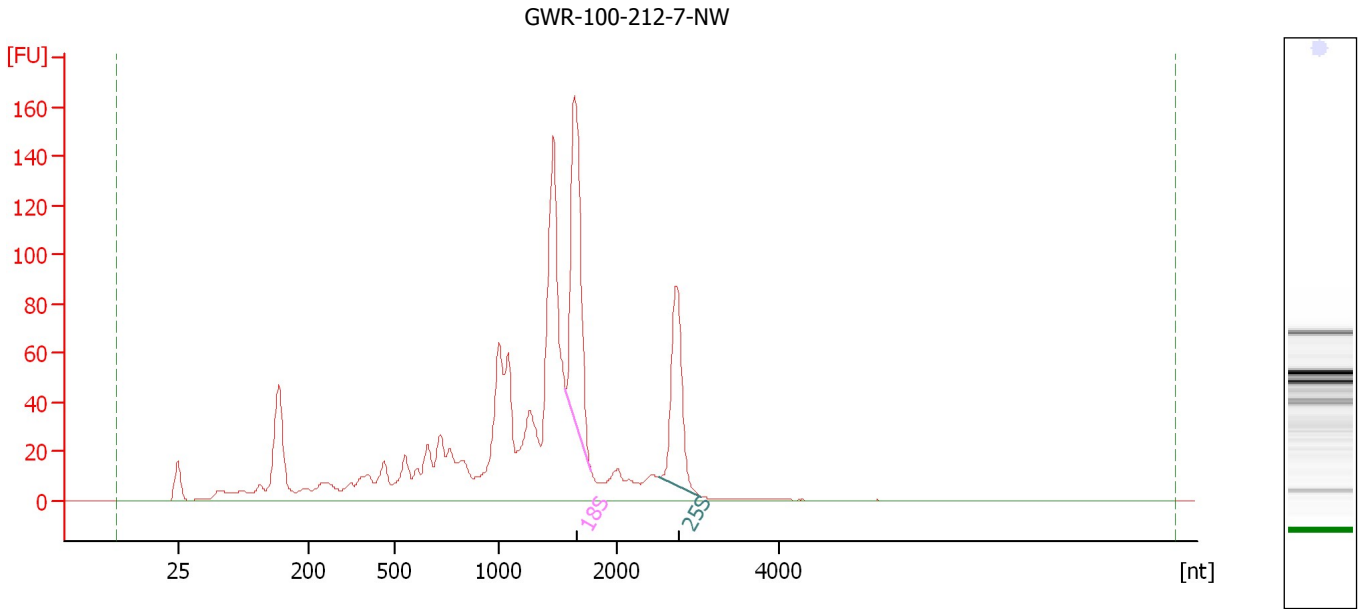
Fragment table for sample 7 : GWR-100-90-6-NW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,565	1,808	274.1	9.7
25S	2,522	3,022	155.5	5.5

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : GWR-100-212-7-NW

RNA Area: 1,351.4 RNA Integrity Number (RIN): 5.8 (B.02.08)
RNA Concentration: 719 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.6 Result Flagging Label: RIN: 5.80

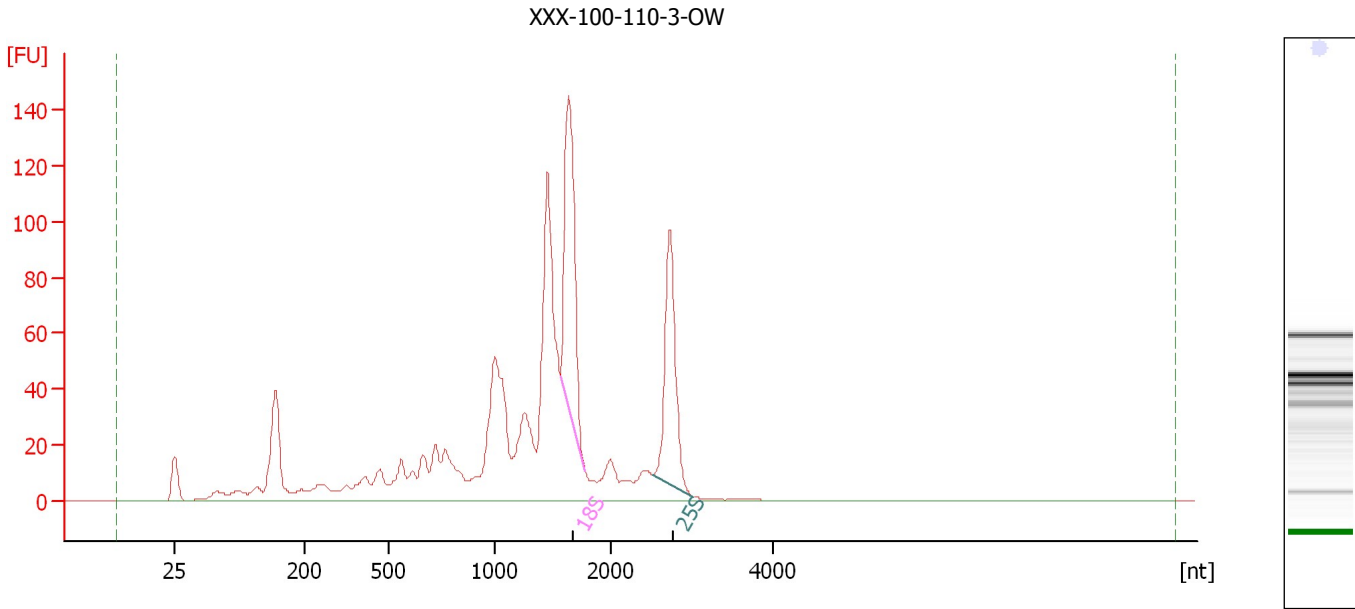
Fragment table for sample 8 : GWR-100-212-7-NW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,562	1,779	174.5	12.9
25S	2,509	3,037	100.4	7.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : XXX-100-110-3-OW

RNA Area: 1,157.1 RNA Integrity Number (RIN): 6.1 (B.02.08)
RNA Concentration: 616 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN: 6.10

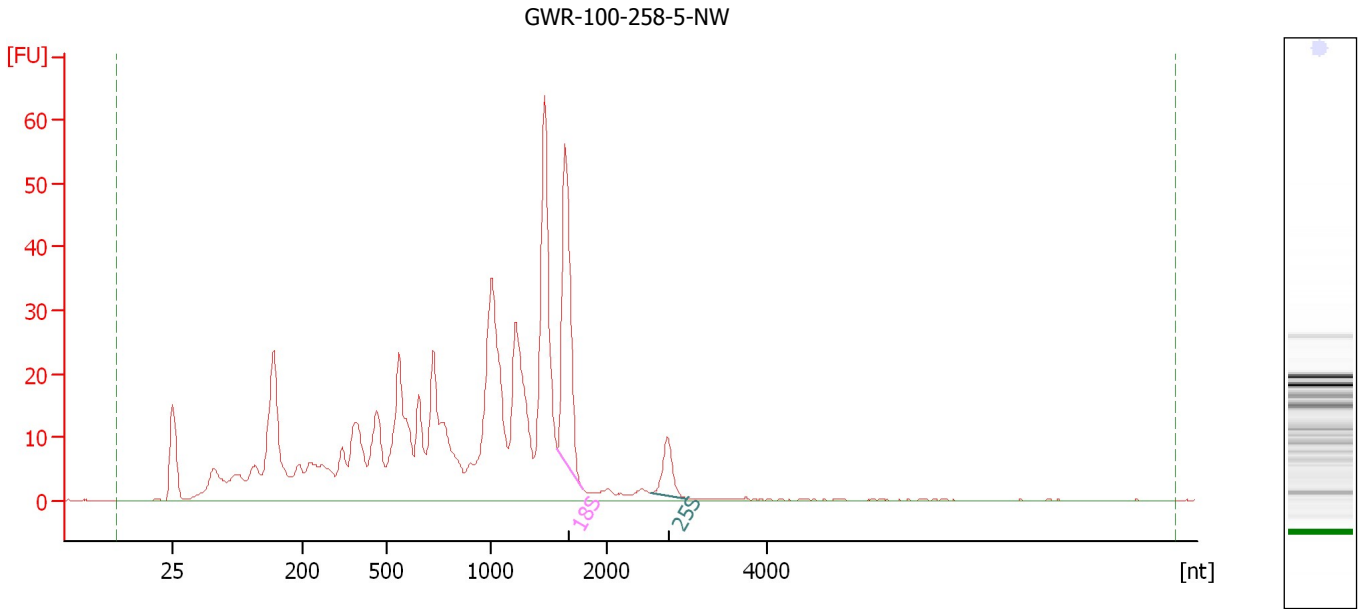
Fragment table for sample 9 : XXX-100-110-3-OW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,566	1,775	147.8	12.8
25S	2,509	3,015	115.3	10.0

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : GWR-100-258-5-NW

RNA Area: 633.3 RNA Integrity Number (RIN): 4.7 (B.02.08)
RNA Concentration: 337 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.2 Result Flagging Label: RIN: 4.70

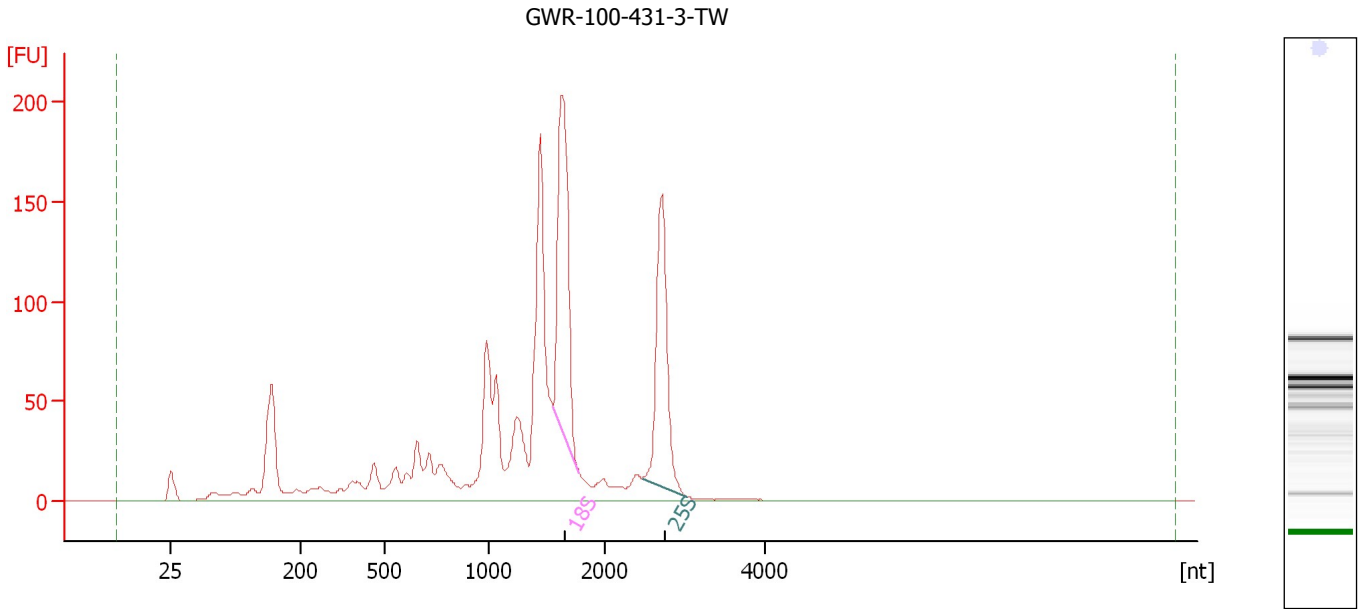
Fragment table for sample 10 : GWR-100-258-5-NW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,572	1,791	53.4	8.4
25S	2,549	3,004	10.8	1.7

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : GWR-100-431-3-TW

RNA Area: 1,537.9 RNA Integrity Number (RIN): 6.2 (B.02.08)
RNA Concentration: 819 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN: 6.20

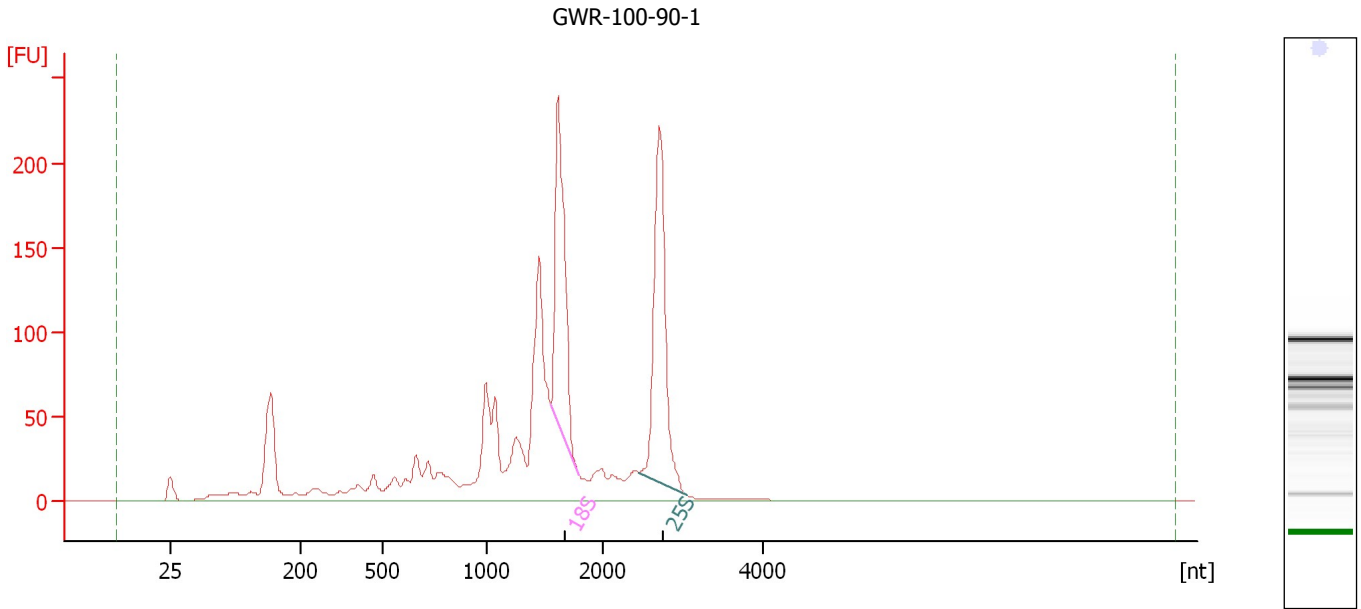
Fragment table for sample 11 : GWR-100-431-3-TW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,552	1,781	232.2	15.1
25S	2,469	3,018	182.7	11.9

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : GWR-100-90-1

RNA Area: 1,705.3 RNA Integrity Number (RIN): 6.6 (B.02.08)
RNA Concentration: 908 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.1 Result Flagging Label: RIN: 6.60

Fragment table for sample 12 : GWR-100-90-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,550	1,798	247.6	14.5
25S	2,456	3,060	280.2	16.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-29\2018-08-29_002.xad

Created: 8/29/2018 2:05:34 PM
Modified: 8/29/2018 2:29:30 PM

Gel Image

