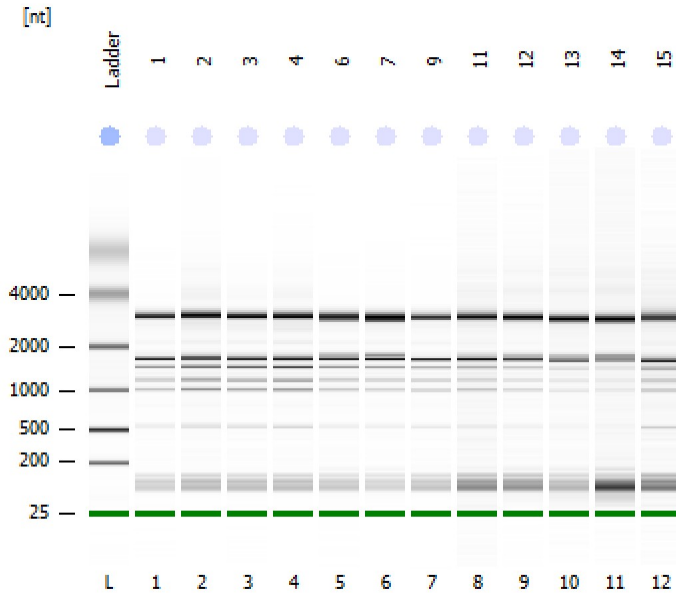


Assay Class: Plant RNA Nano  
Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
Modified: 8/27/2020 1:20:58 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 (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

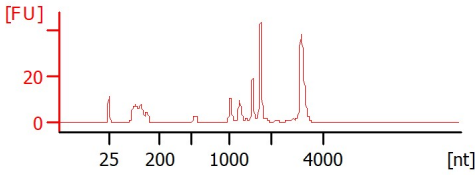
Assay Class: Plant RNA Nano  
Version: 1.3  
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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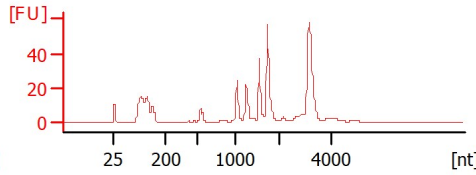
Chip Information:

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

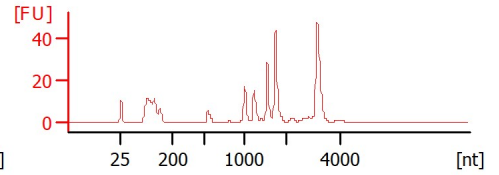
**1**  
NovaSeq230 DNase Cleaned RNA  
RIN: 7.50



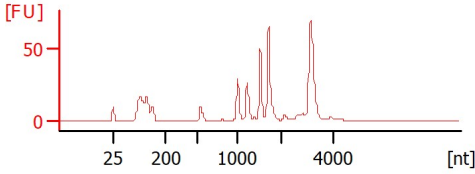
**2**  
NovaSeq230 DNase Cleaned RNA  
RIN: 7.20



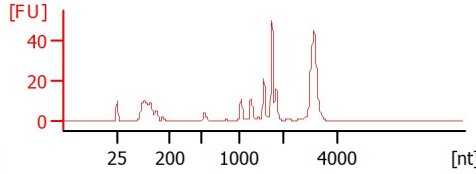
**3**  
NovaSeq230 DNase Cleaned RNA  
RIN: 7.20



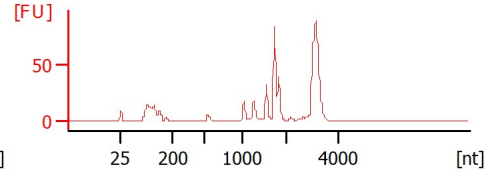
**4**  
NovaSeq230 DNase Cleaned RNA  
RIN: 7.10



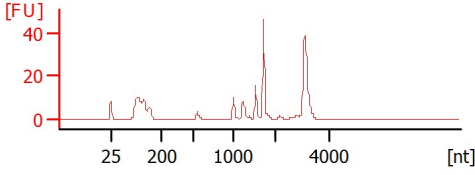
**6**  
NovaSeq230 DNase Cleaned RNA  
RIN: 8.20



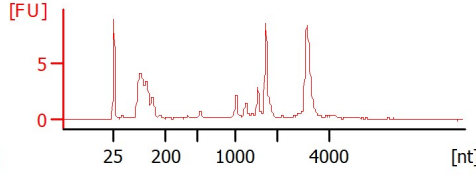
**7**  
NovaSeq230 DNase Cleaned RNA  
RIN: 8.50



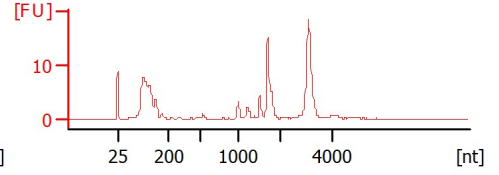
**9**  
NovaSeq230 DNase Cleaned RNA  
RIN: 7.80



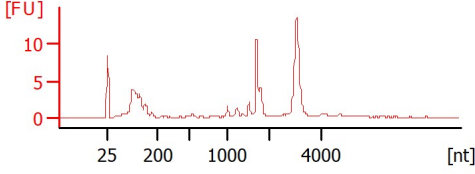
**11**  
NovaSeq230 DNase Cleaned RNA  
RIN: 8.10



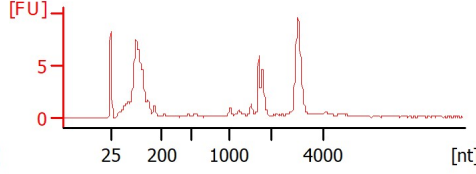
**12**  
NovaSeq230 DNase Cleaned RNA  
RIN: 8.50



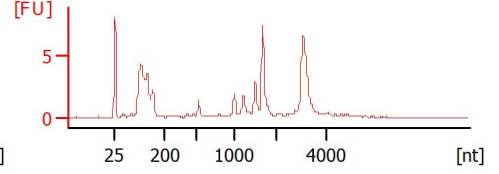
**13**  
NovaSeq230 DNase Cleaned RNA  
RIN: 8.80



**14**  
NovaSeq230 DNase Cleaned RNA  
RIN: 7.70
















**15**  
NovaSeq230 DNase Cleaned RNA  
RIN: 7.80



Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
1	NovaSeq230 DNase Cleaned RNA	✓	RIN: 7.50	
2	NovaSeq230 DNase Cleaned RNA	✓	RIN: 7.20	
3	NovaSeq230 DNase Cleaned RNA	✓	RIN: 7.20	
4	NovaSeq230 DNase Cleaned RNA	✓	RIN: 7.10	
6	NovaSeq230 DNase Cleaned RNA	✓	RIN: 8.20	
7	NovaSeq230 DNase Cleaned RNA	✓	RIN: 8.50	
9	NovaSeq230 DNase Cleaned RNA	✓	RIN: 7.80	
11	NovaSeq230 DNase Cleaned RNA	✓	RIN: 8.10	
12	NovaSeq230 DNase Cleaned RNA	✓	RIN: 8.50	
13	NovaSeq230 DNase Cleaned RNA	✓	RIN: 8.80	
14	NovaSeq230 DNase Cleaned RNA	✓	RIN: 7.70	
15	NovaSeq230 DNase Cleaned RNA	✓	RIN: 7.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 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

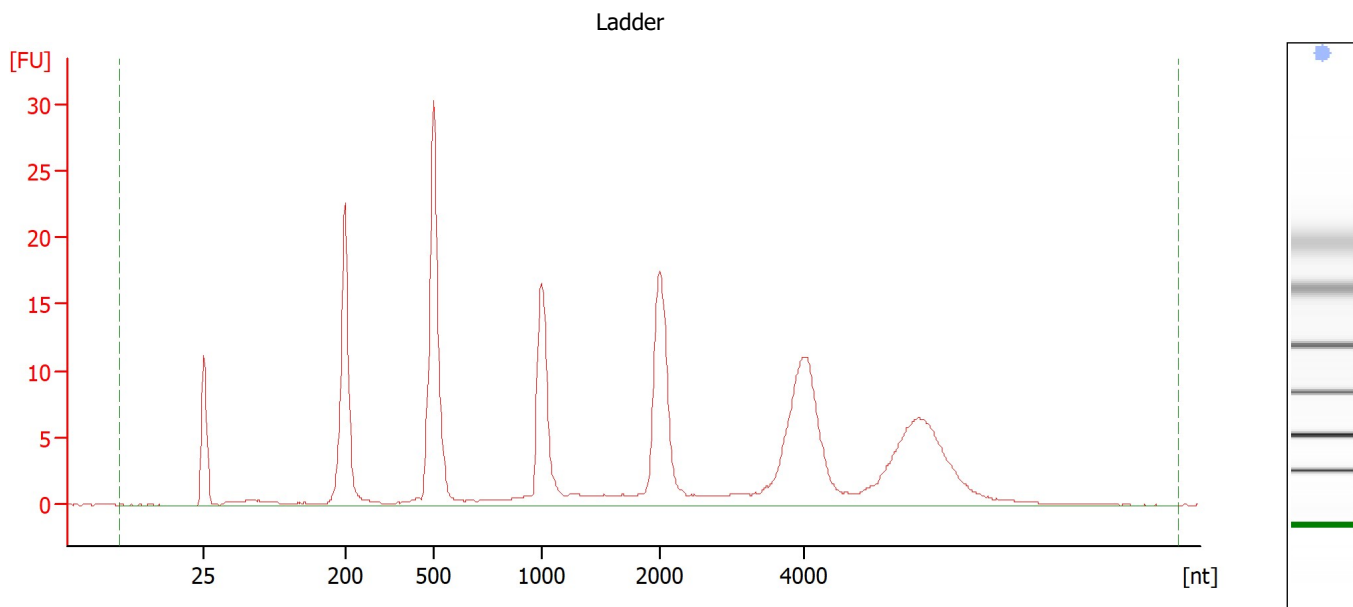
**Ladder**

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

Assay Class: Plant RNA Nano  
Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
Modified: 8/27/2020 1:20:58 PM

**Electropherogram Summary**



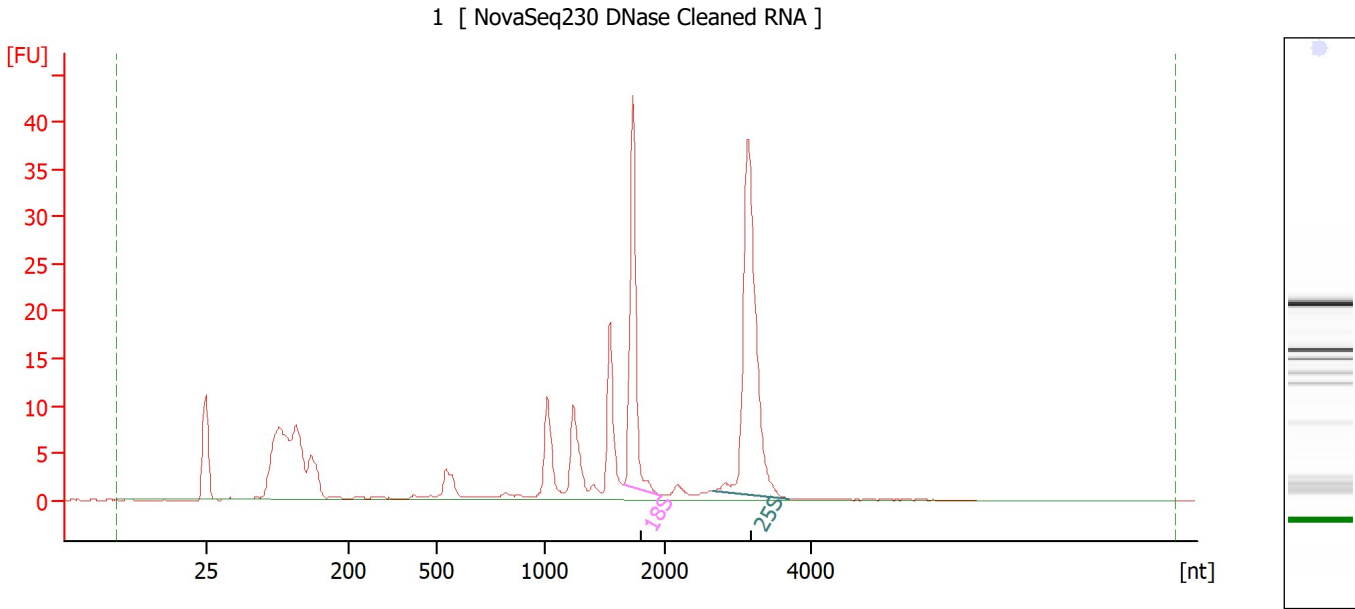
**Overall Results for Ladder**

RNA Area:	223.9	Result Flagging Color:	<span style="background-color: #ADD8E6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1**

RNA Area:	206.0	RNA Integrity Number (RIN):	7.5 (B.02.10)
RNA Concentration:	138 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.7	Result Flagging Label:	RIN: 7.50

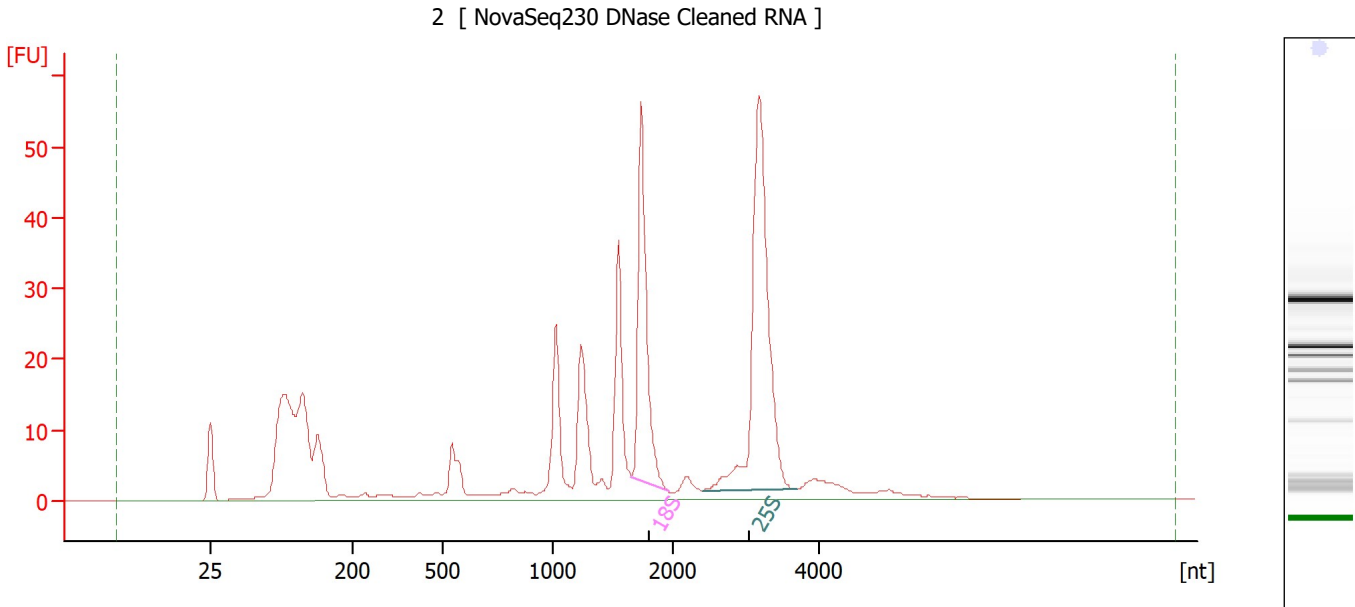
**Fragment table for sample 1 : 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,663	1,958	31.1	15.1
25S	2,666	3,694	52.6	25.5

Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 2**

RNA Area:	417.3	RNA Integrity Number (RIN):	7.2 (B.02.10)
RNA Concentration:	280 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN: 7.20

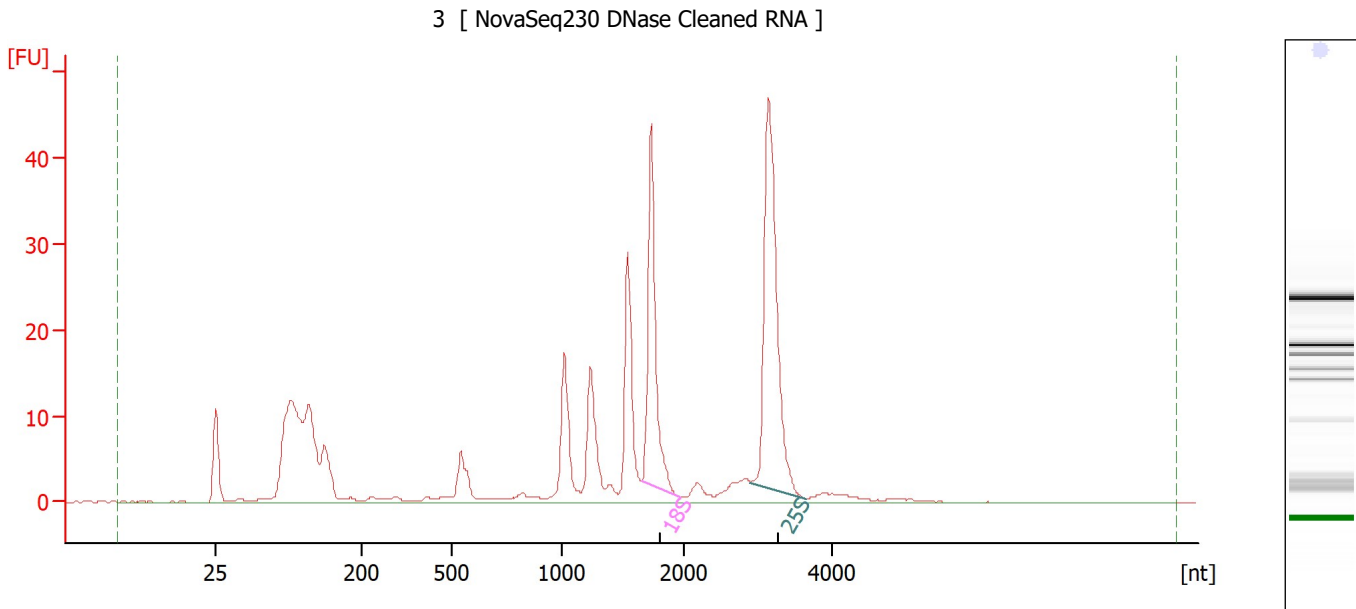
**Fragment table for sample 2 : 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,652	1,962	53.2	12.8
25S	2,403	3,700	95.2	22.8

Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 3**

RNA Area:	293.2	RNA Integrity Number (RIN):	7.2 (B.02.10)
RNA Concentration:	196 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.6	Result Flagging Label:	RIN: 7.20

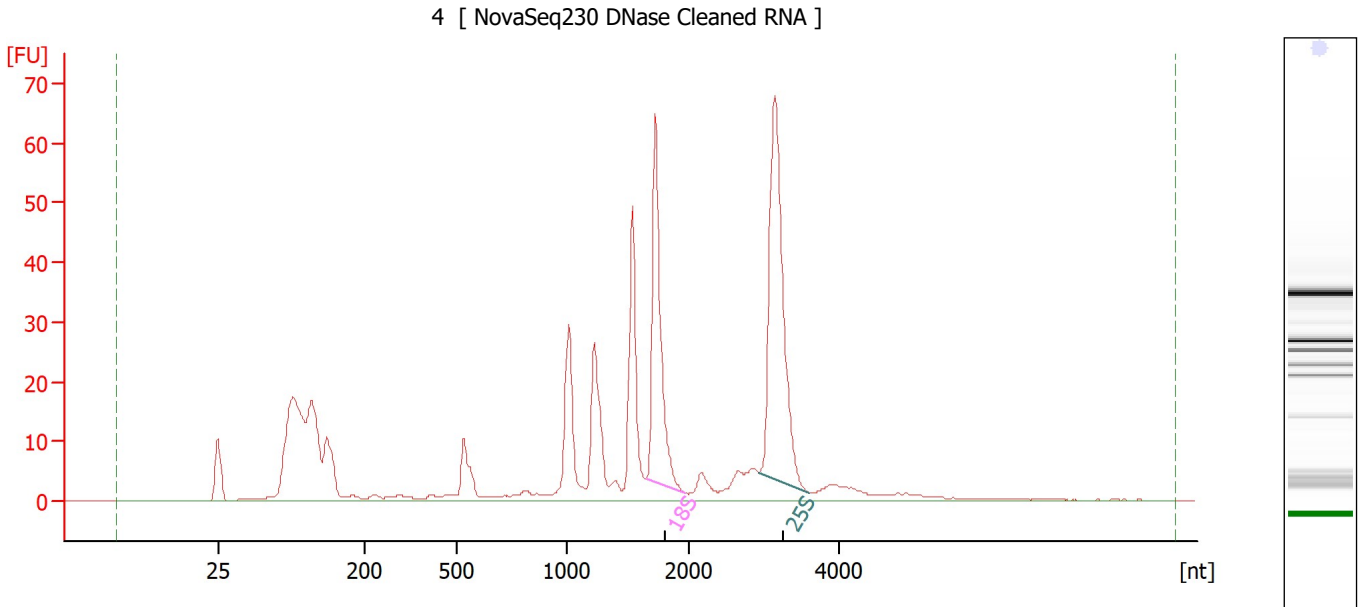
**Fragment table for sample 3 : 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,651	1,957	38.8	13.2
25S	2,896	3,631	60.7	20.7

Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 4**

RNA Area:	477.4	RNA Integrity Number (RIN):	7.1 (B.02.10)
RNA Concentration:	320 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.5	Result Flagging Label:	RIN: 7.10

**Fragment table for sample 4 : 4**

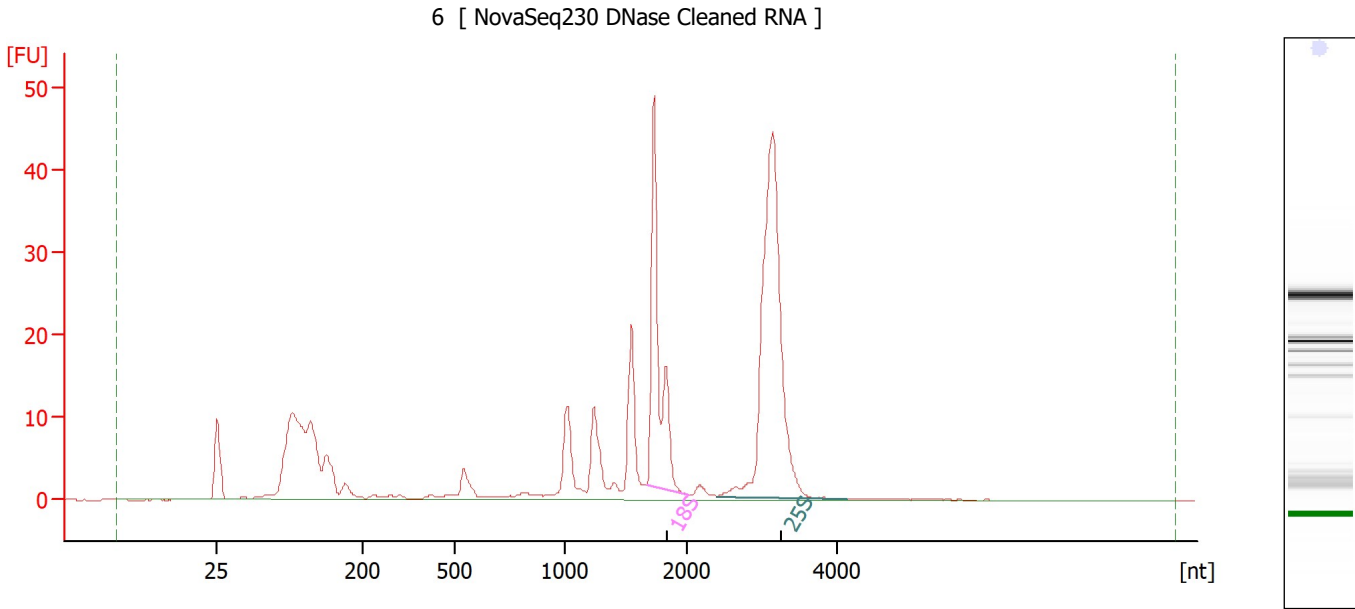
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,960	61.4	12.9
25S	2,923	3,611	92.9	19.5



Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 6**

RNA Area:	278.9	RNA Integrity Number (RIN):	8.2 (B.02.10)
RNA Concentration:	187 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.9	Result Flagging Label:	RIN: 8.20

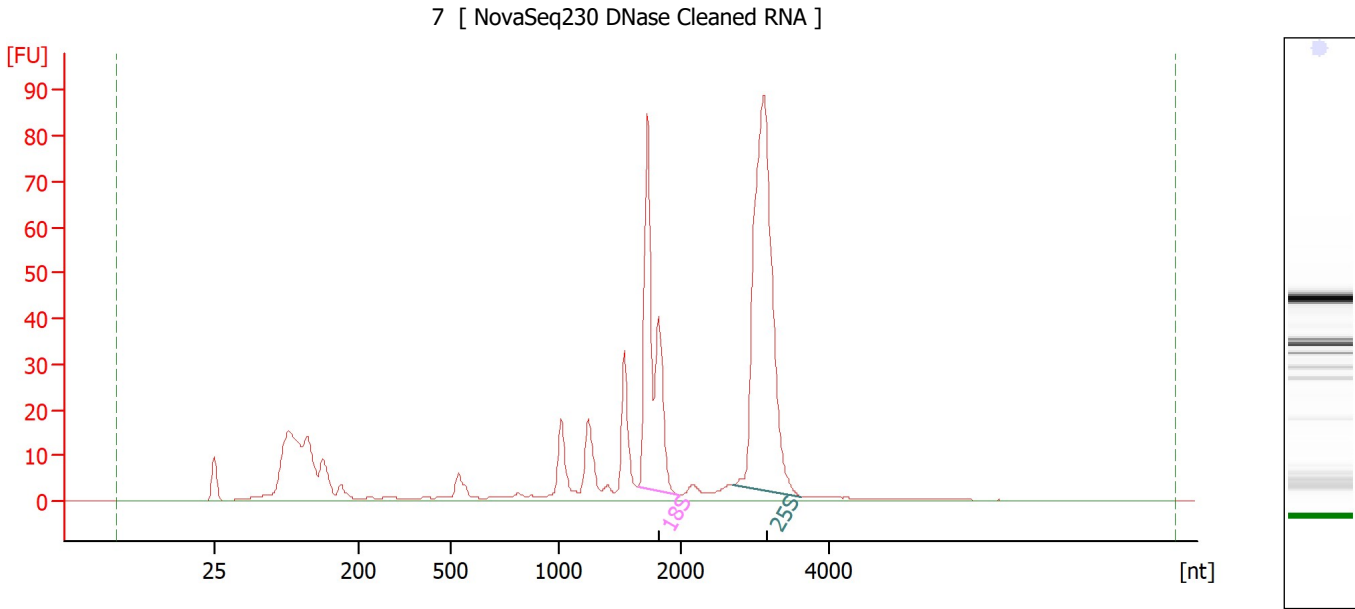
**Fragment table for sample 5 : 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,662	2,034	46.3	16.6
25S	2,392	4,144	86.9	31.2

Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 7**

RNA Area:	525.2	RNA Integrity Number (RIN):	8.5 (B.02.10)
RNA Concentration:	352 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN: 8.50

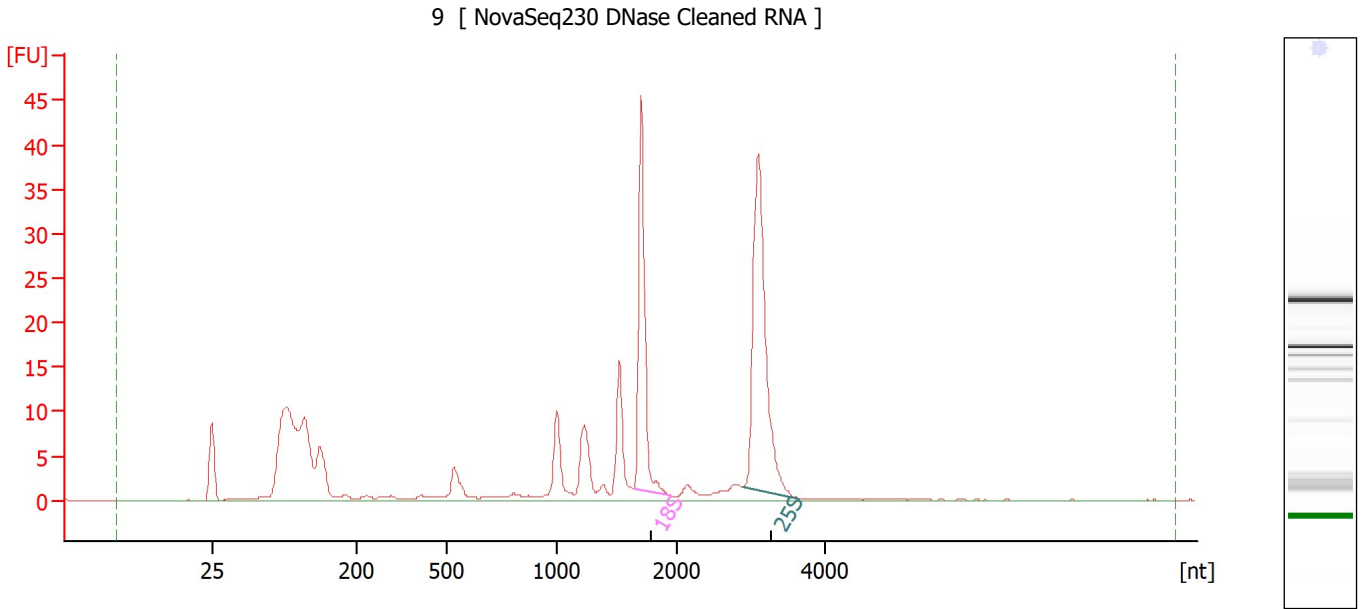
**Fragment table for sample 6 : 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	1,974	95.2	18.1
25S	2,709	3,633	172.4	32.8

Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 9**

RNA Area:	214.0	RNA Integrity Number (RIN):	7.8 (B.02.10)
RNA Concentration:	143 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.6	Result Flagging Label:	RIN: 7.80

**Fragment table for sample 7 : 9**

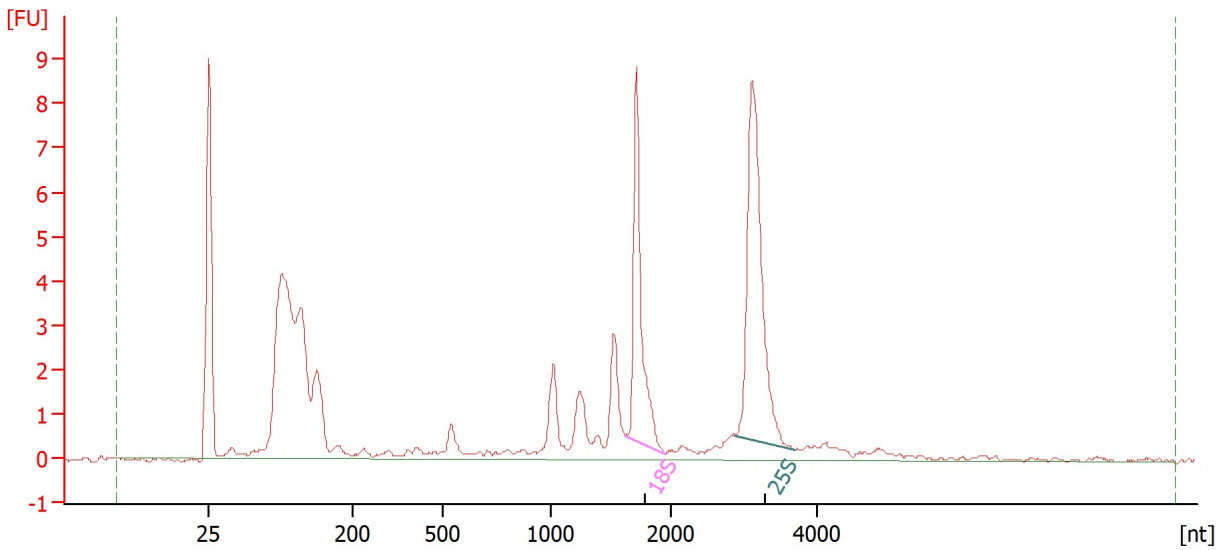
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,937	32.1	15.0
25S	2,898	3,652	50.9	23.8

Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 PM

**Electropherogram Summary Continued ...**

11 [ NovaSeq230 DNase Cleaned RNA ]



**Overall Results for sample 8 : 11**

RNA Area:	67.2	RNA Integrity Number (RIN):	8.1 (B.02.10)
RNA Concentration:	45 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.6	Result Flagging Label:	RIN: 8.10

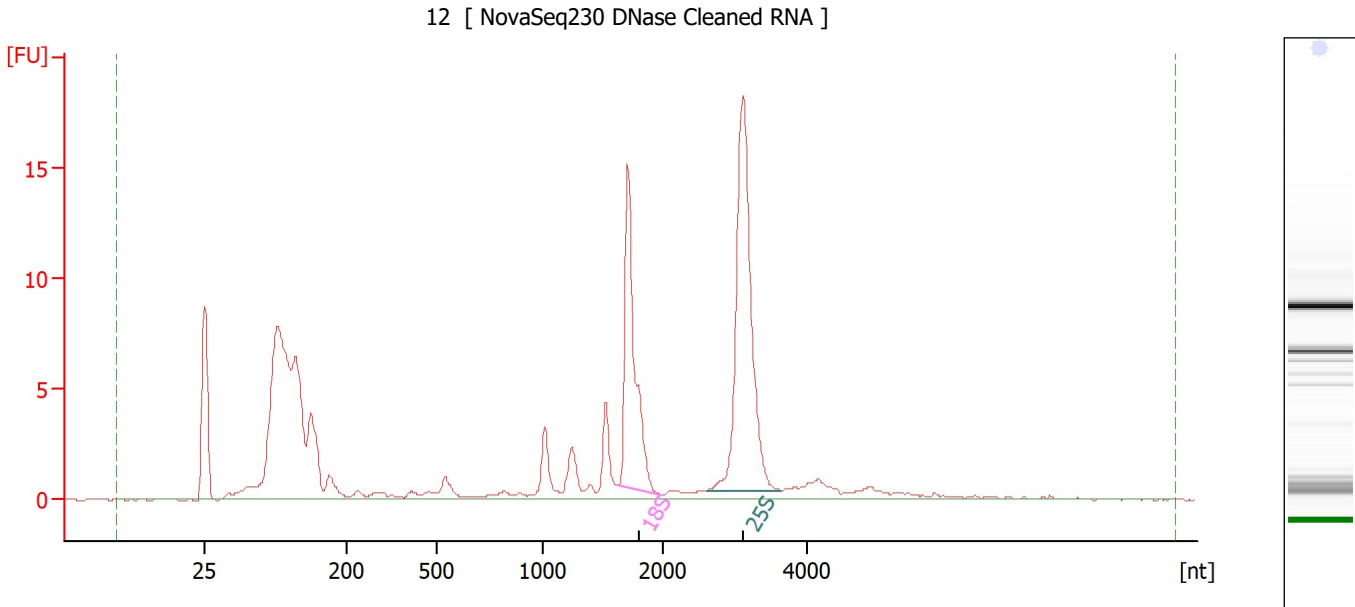
**Fragment table for sample 8 : 11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,943	8.0	12.0
25S	2,885	3,688	12.6	18.8

Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 12**

RNA Area:	125.4	RNA Integrity Number (RIN):	8.5 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	84 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.7	Result Flagging Label:	RIN: 8.50

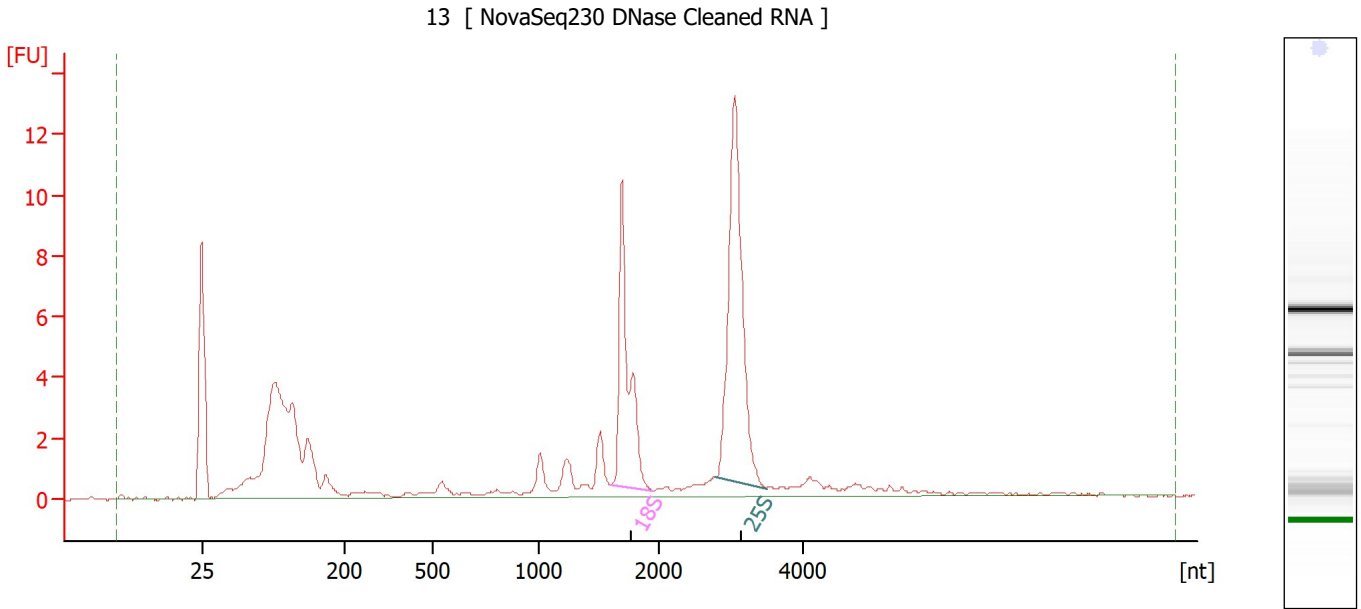
**Fragment table for sample 9 : 12**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,617	1,984	17.0	13.6
25S	2,622	3,638	28.9	23.0

Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 13**

RNA Area:	81.3	RNA Integrity Number (RIN):	8.8 (B.02.10)
RNA Concentration:	54 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.6	Result Flagging Label:	RIN: 8.80

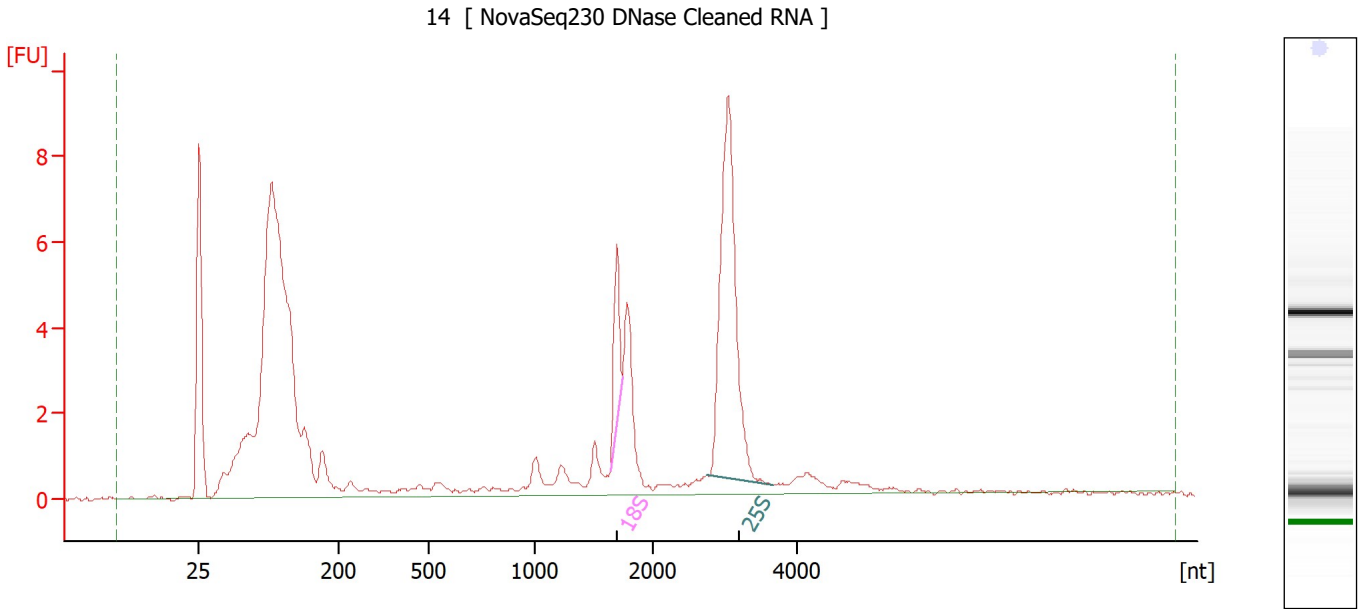
**Fragment table for sample 10 : 13**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,946	11.9	14.6
25S	2,770	3,494	19.3	23.8

Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 14**

RNA Area:	88.5	RNA Integrity Number (RIN):	7.7 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	59 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	6.0	Result Flagging Label:	RIN: 7.70

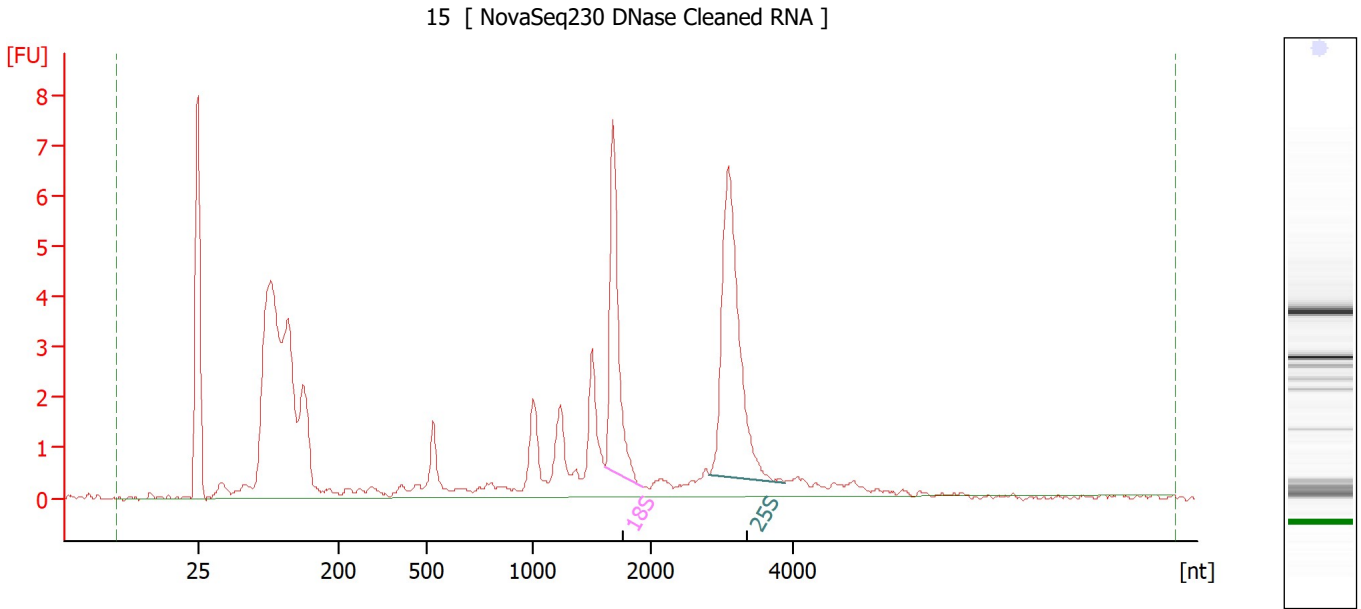
**Fragment table for sample 11 : 14**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,645	1,745	2.5	2.9
25S	2,770	3,663	15.2	17.2

Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 15**

RNA Area:	69.5	RNA Integrity Number (RIN):	7.8 (B.02.10)
RNA Concentration:	47 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.7	Result Flagging Label:	RIN: 7.80

**Fragment table for sample 12 : 15**

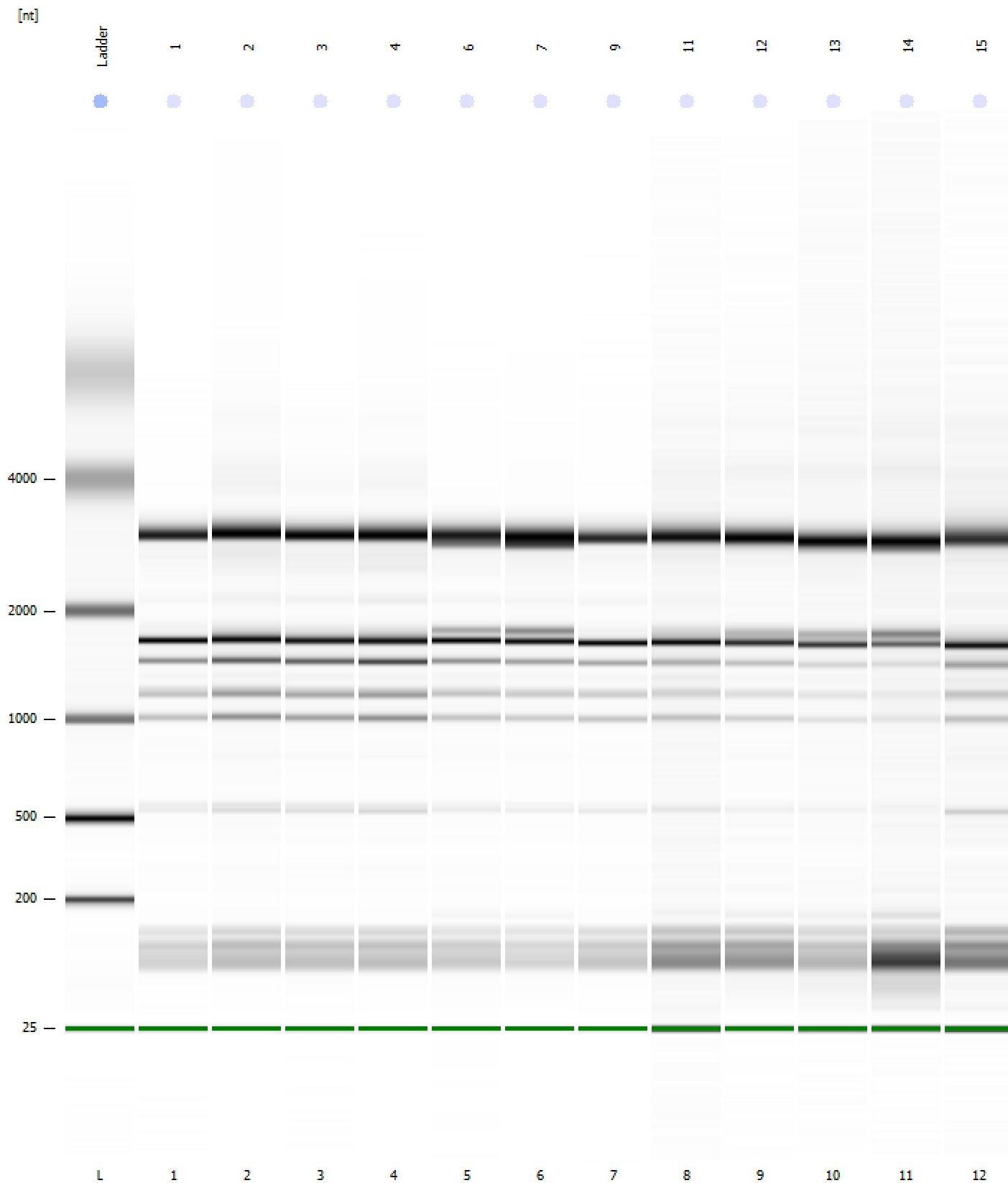
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,616	1,934	7.0	10.1
25S	2,815	3,874	11.6	16.7



Assay Class: Plant RNA Nano  
Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
Modified: 8/27/2020 1:20:58 PM

**Gel Image**



Assay Class: Plant RNA Nano  
 Data Path: Z:\XADs\2020-08-27\Bioanalyzer1\_Plant RNA Nano\_2020-08-27\_001.xad

Created: 8/27/2020 12:57:07 PM  
 Modified: 8/27/2020 1:20:58 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		8/27/2020 1:20:56 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-08-27\Bioanalyze r1_Plant RNA Nano_2020-08-27_001.xad)		Instrument	Run		8/27/2020 12:57:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		8/27/2020 12:57:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/27/2020 12:57:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/27/2020 12:57:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/27/2020 12:57:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/27/2020 12:57:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/27/2020 12:57:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB