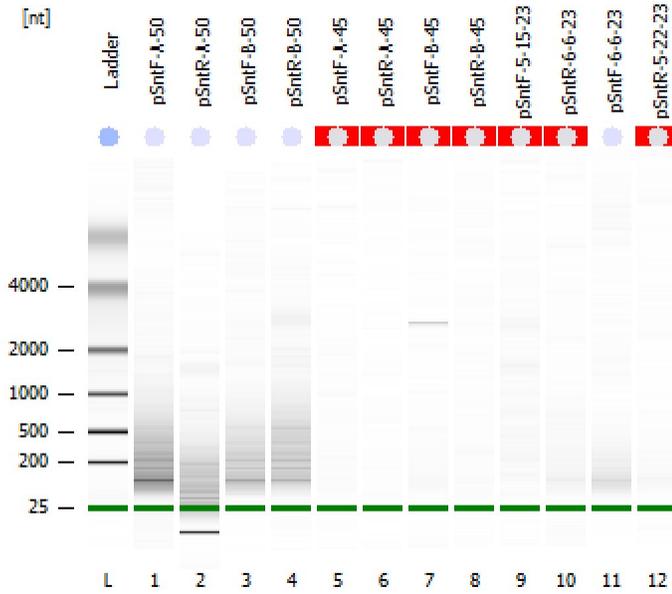


Assay Class: Plant RNA Nano  
Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
Modified: 8/17/2023 1:48:43 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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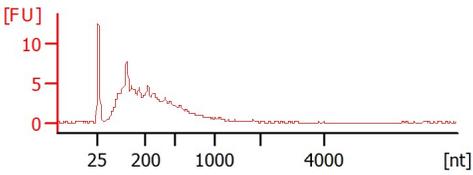
Chip Information:

Chip Lot #:

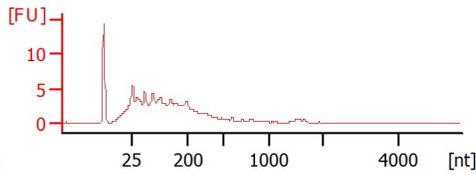
Reagent Kit Lot #:

Chip Comments:

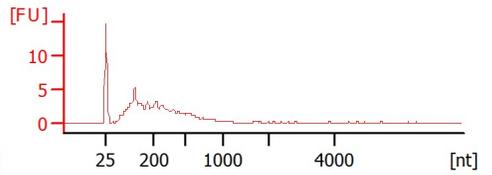
**pSntF-A-50**  
RIN: 2.30



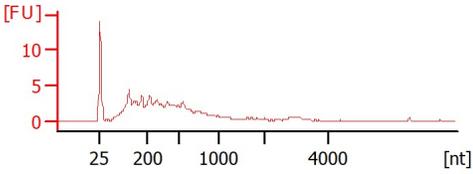
**pSntR-A-50**  
RIN: 2.40



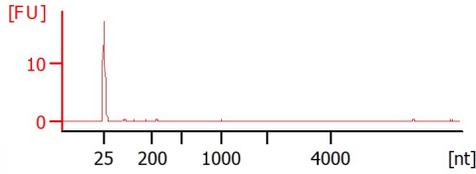
**pSntF-B-50**  
RIN: 2.30



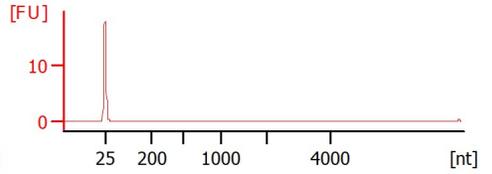
**pSntR-B-50**  
RIN: 2.30



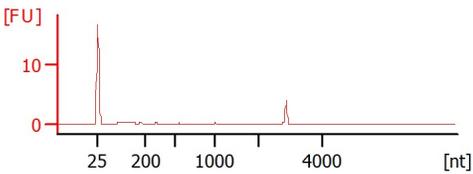
**pSntF-A-45**  
RIN N/A



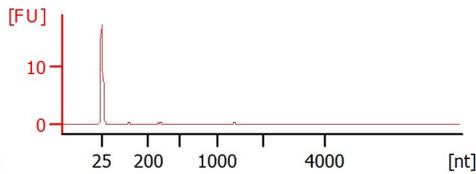
**pSntR-A-45**  
RIN N/A



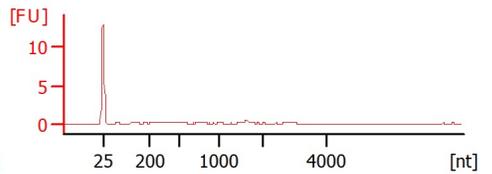
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RIN N/A



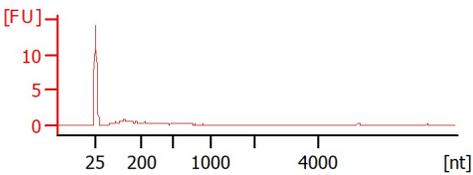
**pSntR-B-45**  
RIN N/A



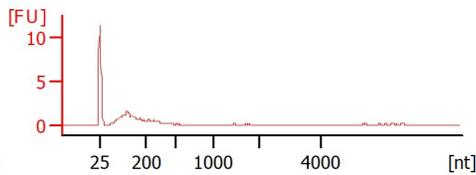
**pSntF-5-15-23**  
RIN N/A



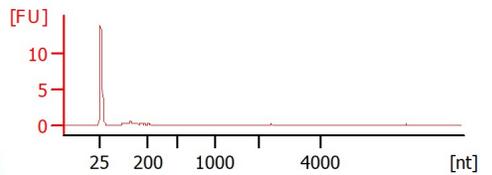
**pSntR-6-6-23**  
RIN N/A



**pSntF-6-6-23**  
RIN: 1.50



**pSntR-5-22-23**  
RIN N/A



Assay Class: Plant RNA Nano  
 Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
 Modified: 8/17/2023 1:48:43 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
pSntF-A-50		✓	RIN: 2.30	
pSntR-A-50		✓	RIN: 2.40	
pSntF-B-50		✓	RIN: 2.30	
pSntR-B-50		✓	RIN: 2.30	
pSntF-A-45		✓	RIN N/A	
pSntR-A-45		✓	RIN N/A	
pSntF-B-45		✓	RIN N/A	
pSntR-B-45		✓	RIN N/A	
pSntF-5-15-23		✓	RIN N/A	
pSntR-6-6-23		✓	RIN N/A	
pSntF-6-6-23		✓	RIN: 1.50	
pSntR-5-22-23		✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
 Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
 Modified: 8/17/2023 1:48:43 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

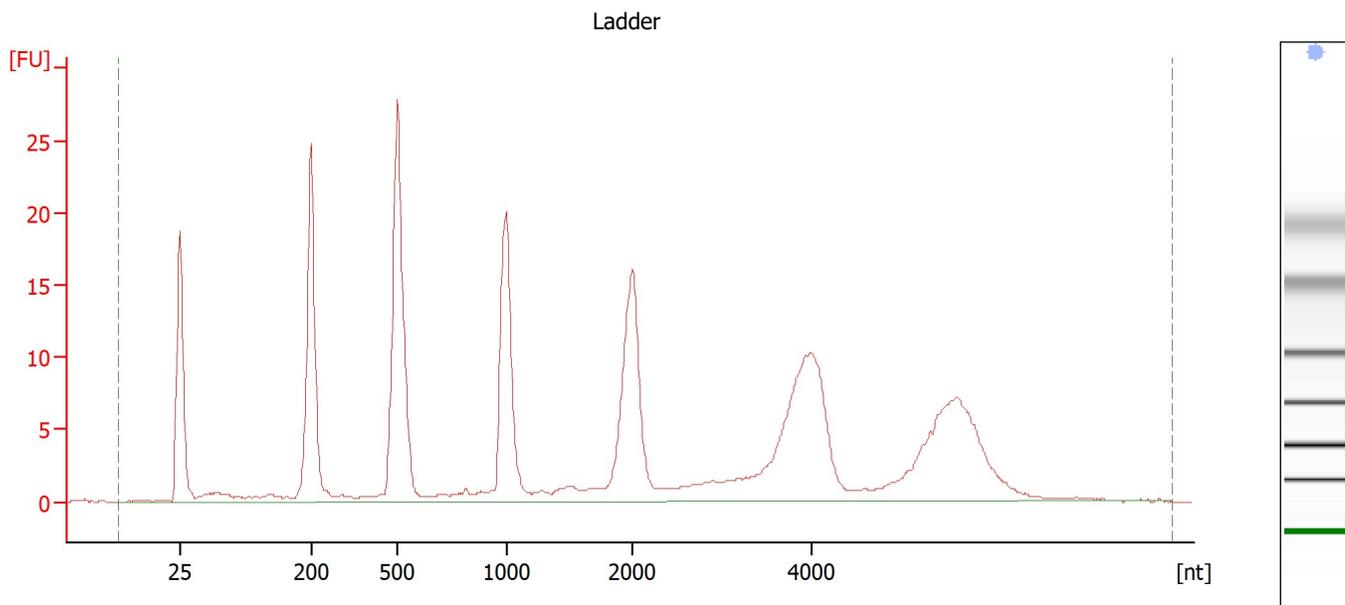
**Ladder**

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

Assay Class: Plant RNA Nano  
Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
Modified: 8/17/2023 1:48:43 PM

### Electropherogram Summary



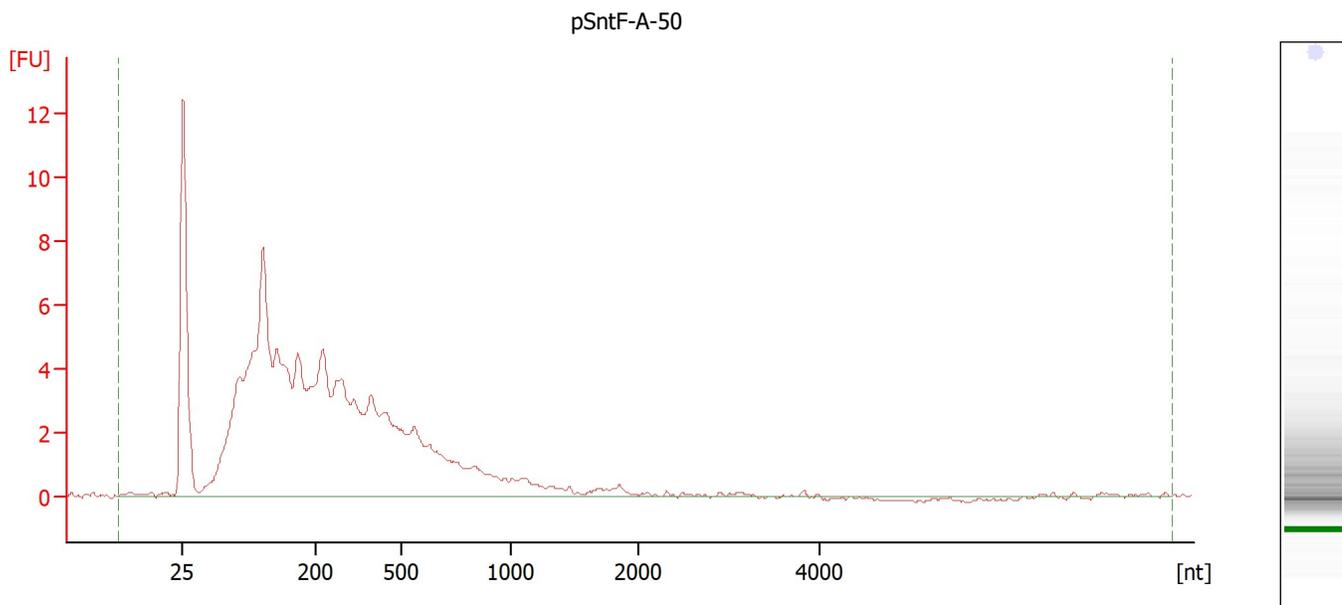
### Overall Results for Ladder

RNA Area:	275.7	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano  
 Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
 Modified: 8/17/2023 1:48:43 PM

**Electropherogram Summary Continued ...**



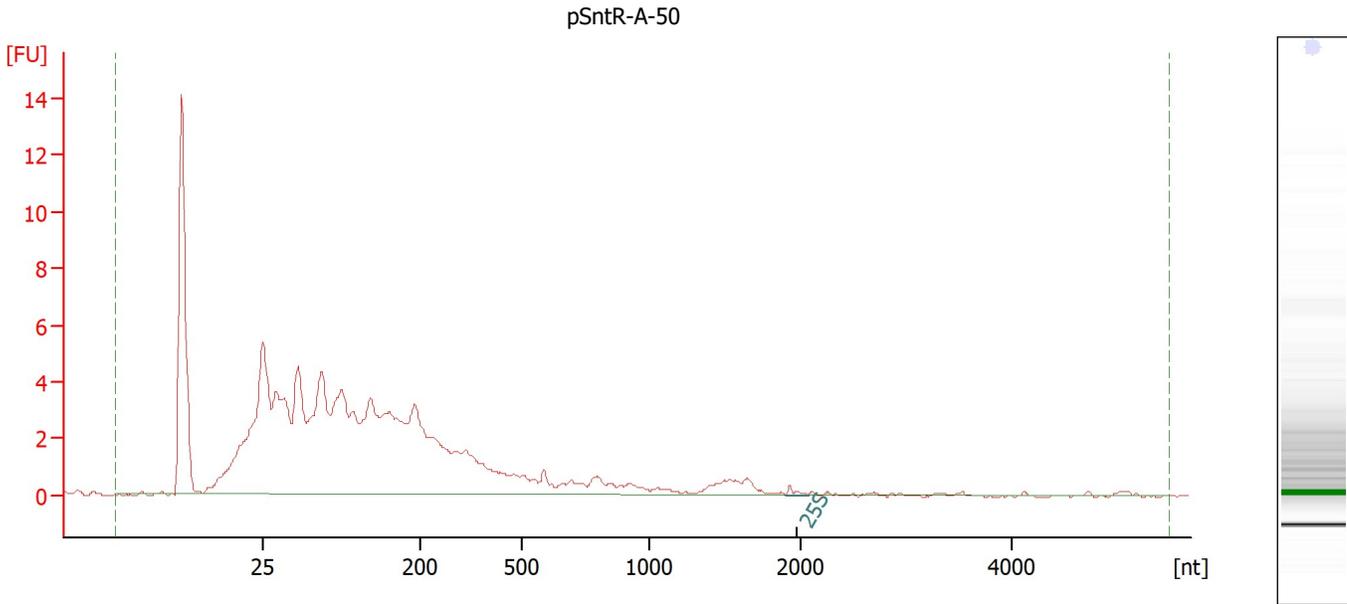
**Overall Results for sample 1 : pSntF-A-50**

RNA Area:	132.2	RNA Integrity Number (RIN):	2.3 (B.02.10)
RNA Concentration:	72 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]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Plant RNA Nano  
 Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
 Modified: 8/17/2023 1:48:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : pSntR-A-50**

RNA Area:	122.2	RNA Integrity Number (RIN):	2.4 (B.02.10)
RNA Concentration:	67 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]:	0.0	Result Flagging Label:	RIN: 2.40

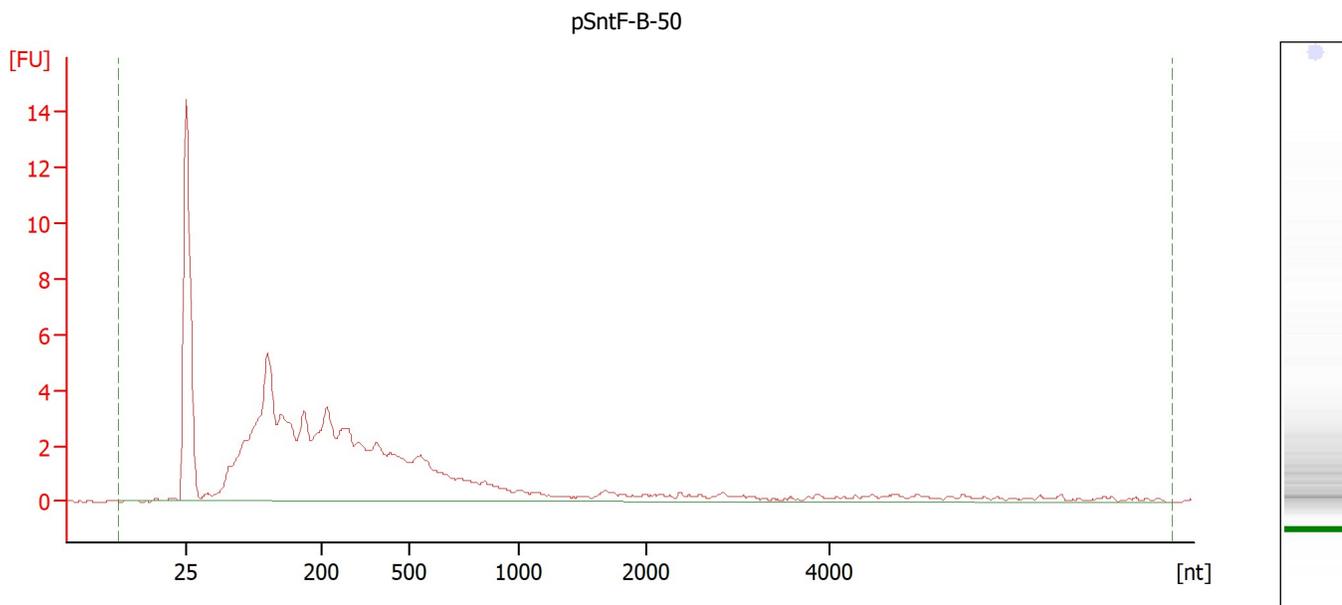
**Fragment table for sample 2 : pSntR-A-50**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,906	2,078	0.3	0.2

Assay Class: Plant RNA Nano  
 Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
 Modified: 8/17/2023 1:48:43 PM

**Electropherogram Summary Continued ...**



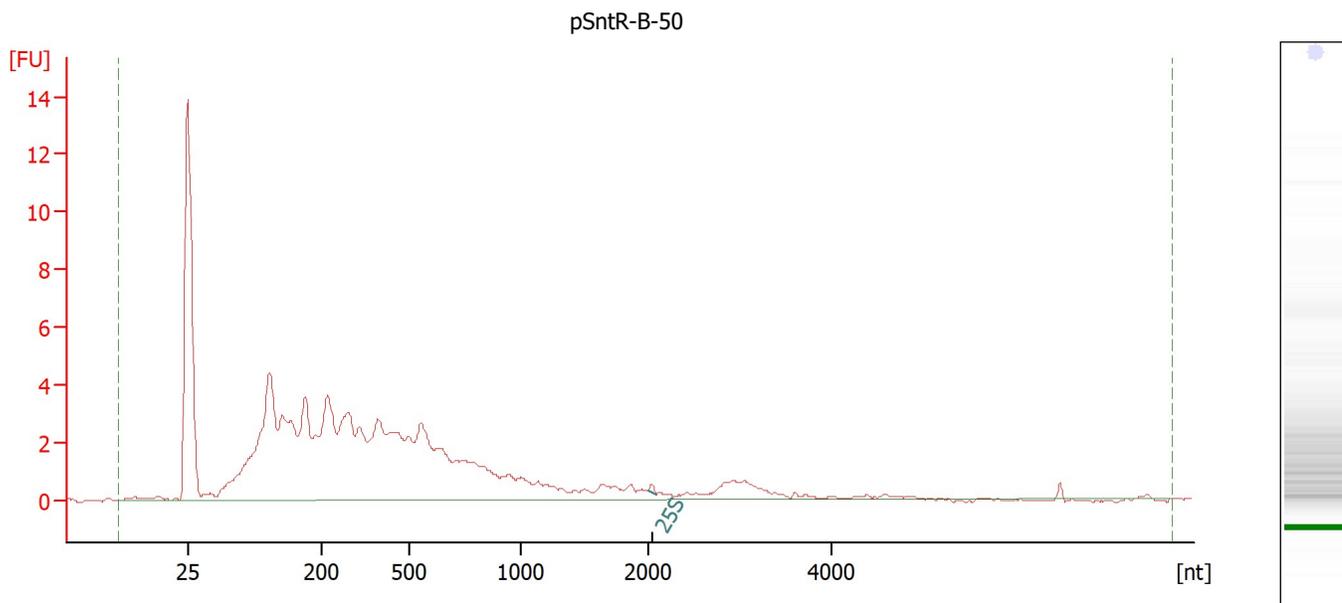
**Overall Results for sample 3 : pSntF-B-50**

RNA Area:	97.4	RNA Integrity Number (RIN):	2.3 (B.02.10)
RNA Concentration:	53 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]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Plant RNA Nano  
 Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
 Modified: 8/17/2023 1:48:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : pSntR-B-50**

RNA Area:	104.6	RNA Integrity Number (RIN):	2.3 (B.02.10)
RNA Concentration:	57 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]:	0.0	Result Flagging Label:	RIN: 2.30

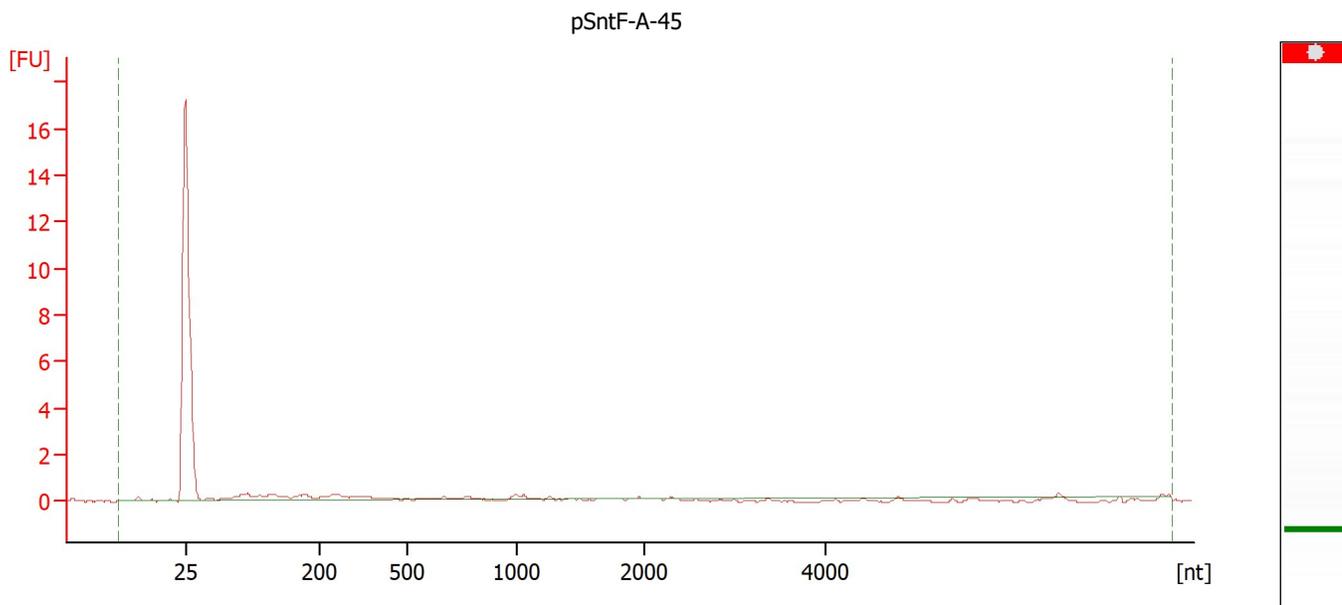
**Fragment table for sample 4 : pSntR-B-50**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,986	2,086	0.1	0.1

Assay Class: Plant RNA Nano  
 Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
 Modified: 8/17/2023 1:48:43 PM

**Electropherogram Summary Continued ...**



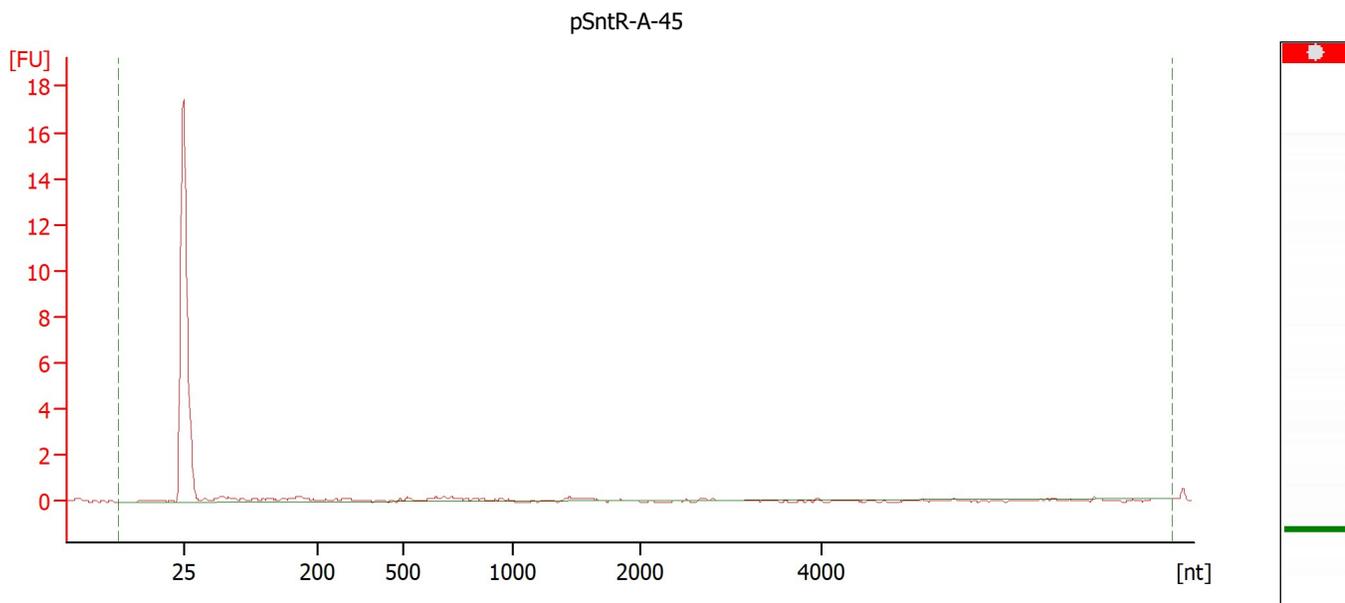
**Overall Results for sample 5 : pSntF-A-45**

RNA Area:	5.6	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	3 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano  
 Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
 Modified: 8/17/2023 1:48:43 PM

**Electropherogram Summary Continued ...**



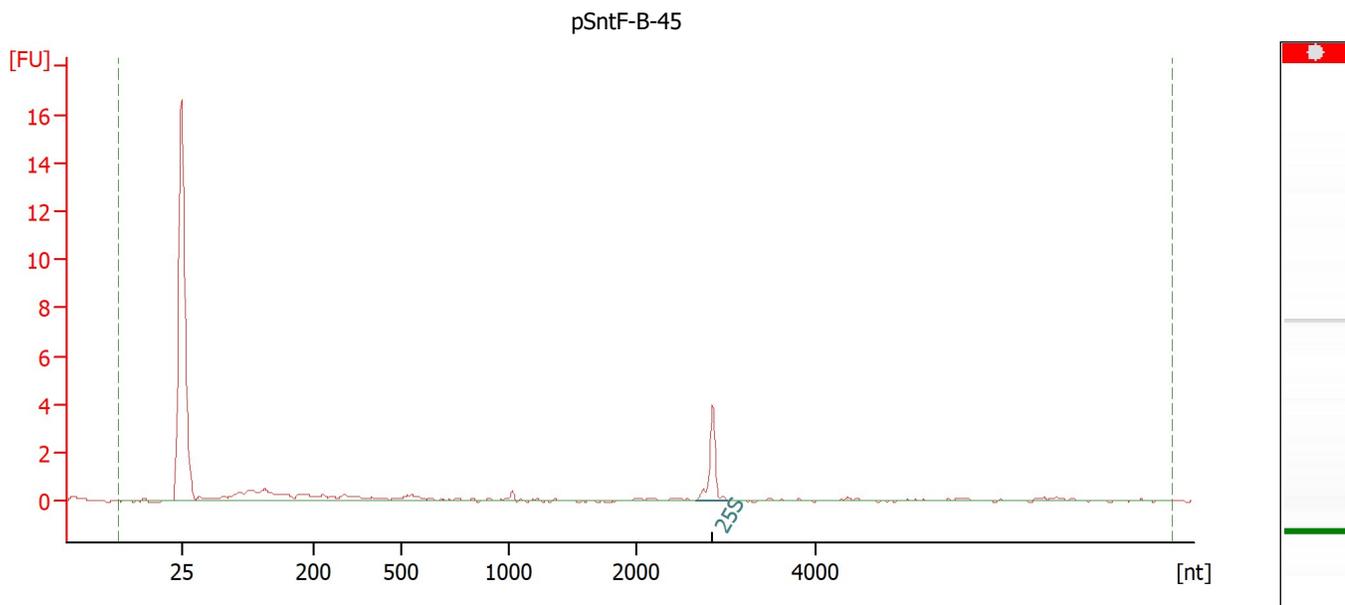
**Overall Results for sample 6 : pSntR-A-45**

RNA Area:	4.7	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	3 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano  
 Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
 Modified: 8/17/2023 1:48:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : pSntF-B-45**

RNA Area:	13.9	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	8 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

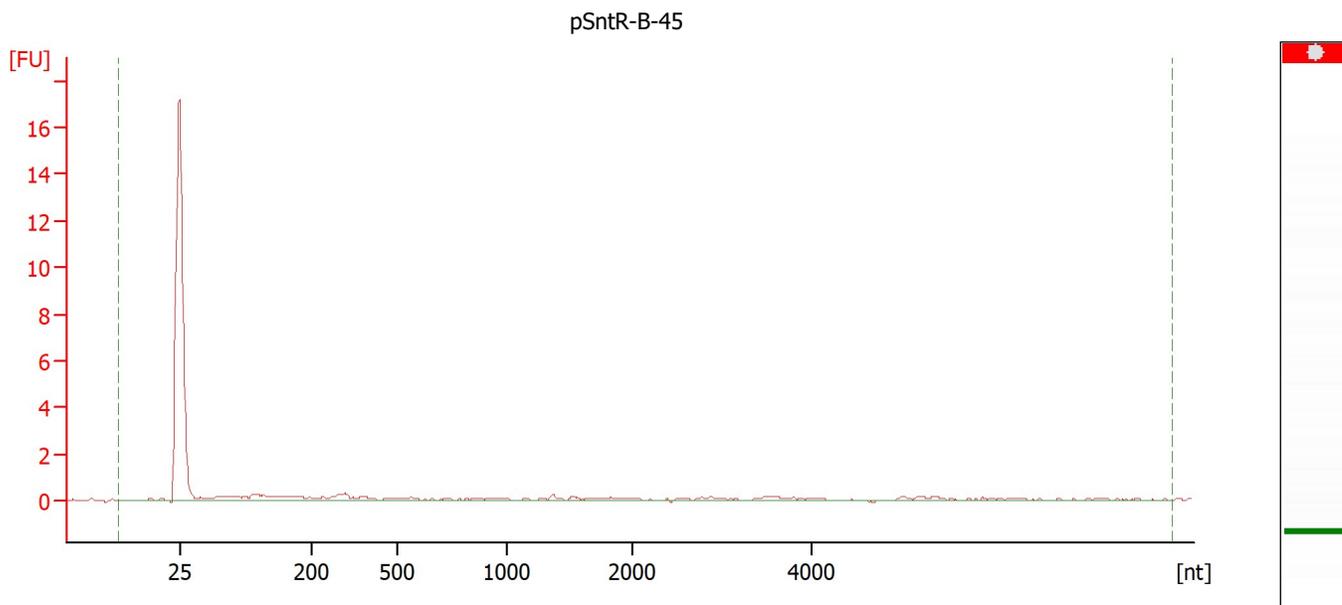
**Fragment table for sample 7 : pSntF-B-45**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,664	3,008	2.8	19.8

Assay Class: Plant RNA Nano  
 Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
 Modified: 8/17/2023 1:48:43 PM

**Electropherogram Summary Continued ...**



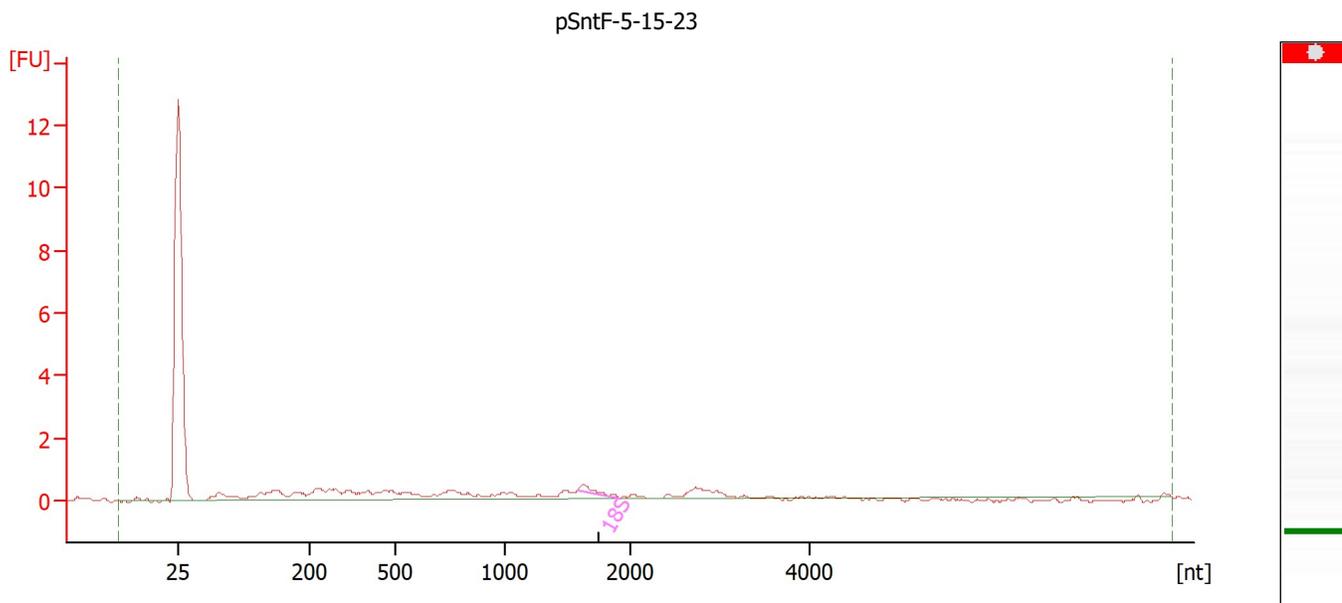
**Overall Results for sample 8 : pSntR-B-45**

RNA Area:	14.1	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	8 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano  
 Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
 Modified: 8/17/2023 1:48:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : pSntF-5-15-23**

RNA Area:	12.8	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	7 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

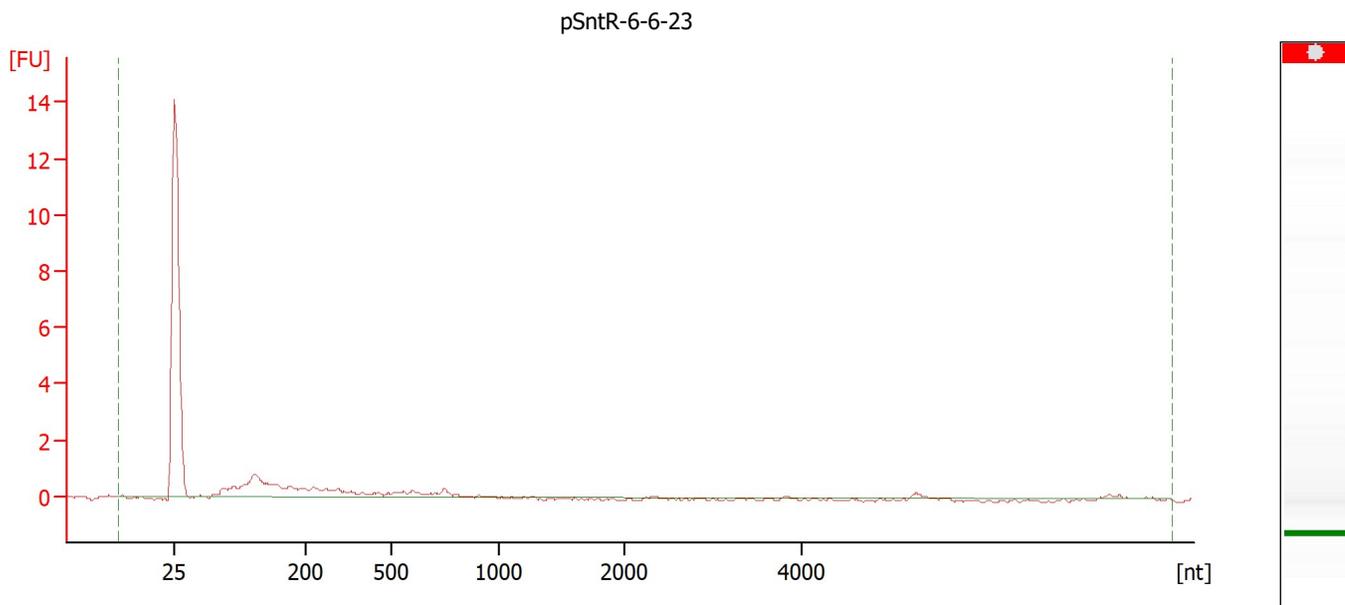
**Fragment table for sample 9 : pSntF-5-15-23**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	1,915	0.4	3.0

Assay Class: Plant RNA Nano  
 Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
 Modified: 8/17/2023 1:48:43 PM

**Electropherogram Summary Continued ...**



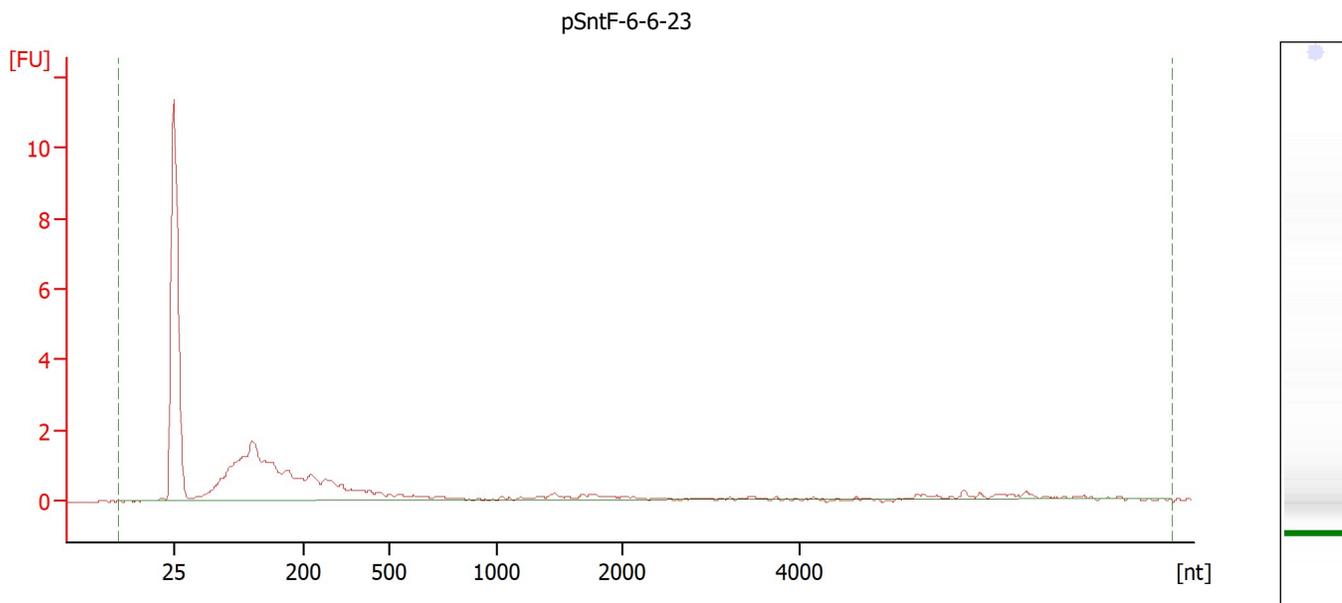
**Overall Results for sample 10 : pSntR-6-6-23**

RNA Area:	11.9	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	6 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano  
Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
Modified: 8/17/2023 1:48:43 PM

**Electropherogram Summary Continued ...**



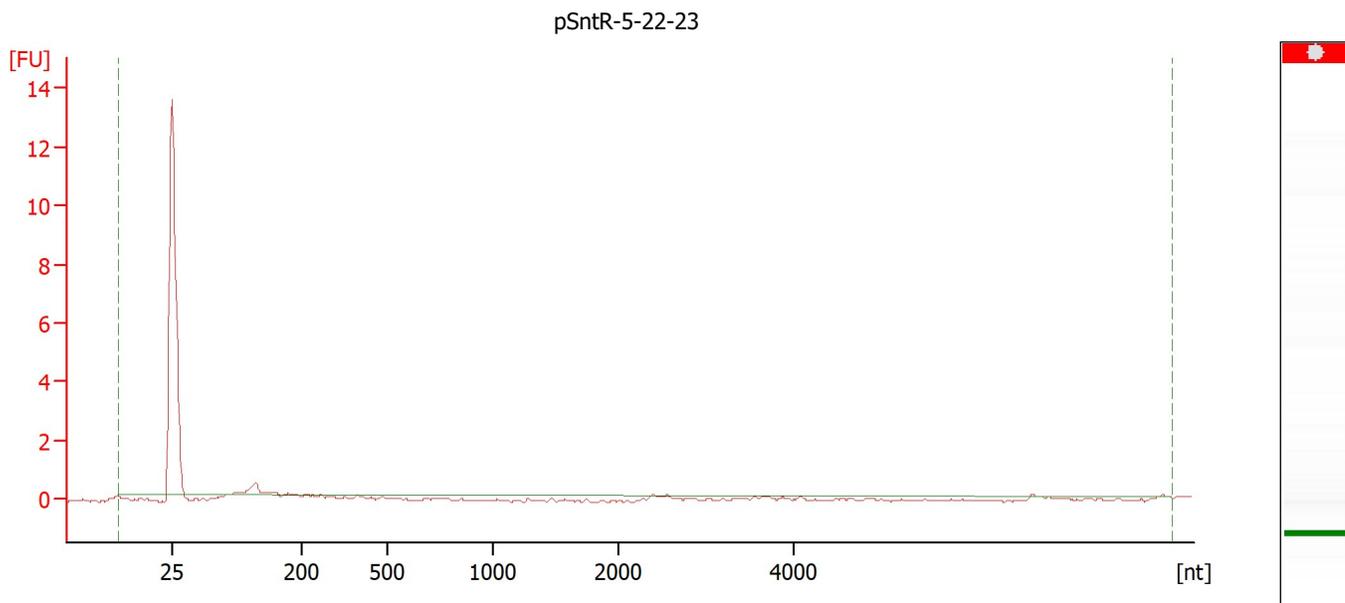
**Overall Results for sample 11 : pSntF-6-6-23**

RNA Area:	27.8	RNA Integrity Number (RIN):	1.5 (B.02.10)
RNA Concentration:	15 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]:	0.0	Result Flagging Label:	RIN: 1.50

Assay Class: Plant RNA Nano  
 Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
 Modified: 8/17/2023 1:48:43 PM

**Electropherogram Summary Continued ...**



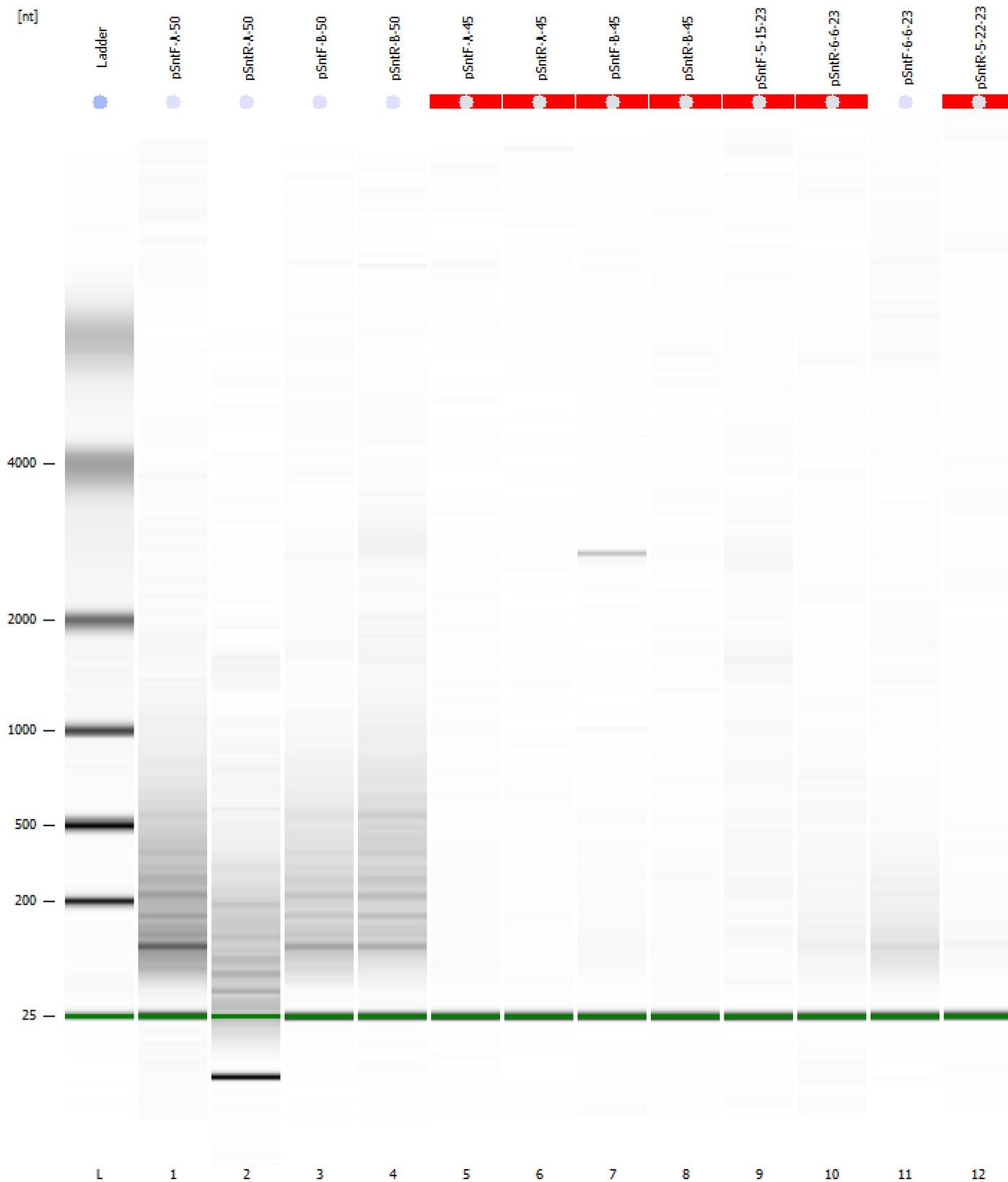
**Overall Results for sample 12 : pSntR-5-22-23**

RNA Area:	1.8	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	1 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano  
Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
Modified: 8/17/2023 1:48:43 PM

Gel Image

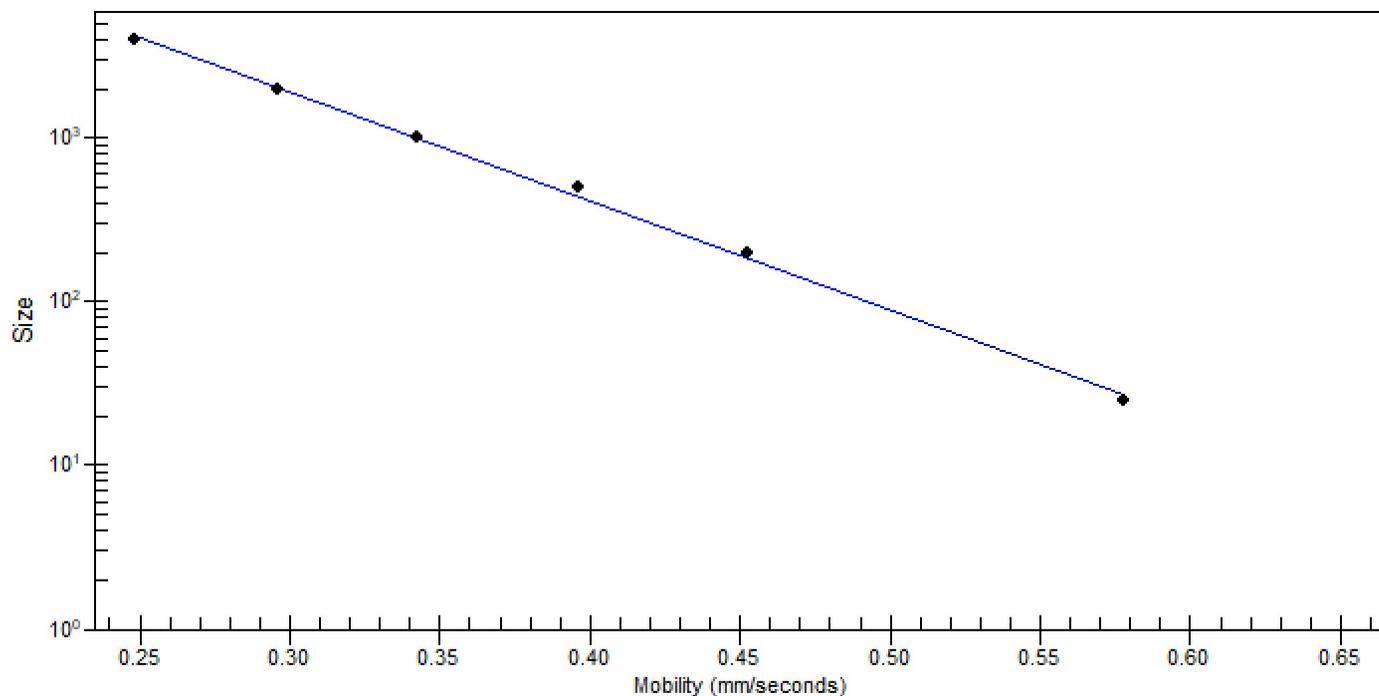


Assay Class: Plant RNA Nano  
Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad

Created: 8/17/2023 1:24:53 PM  
Modified: 8/17/2023 1:48:43 PM

**Curves**

**Standard Curve**



Assay Class: Plant RNA Nano Created: 8/17/2023 1:24:53 PM  
 Data Path: C:\...7\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-17\_001.xad Modified: 8/17/2023 1:48:43 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		8/17/2023 1:48:41 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-08-17\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-08-17 Product Number : G2938C		Instrument	Run		8/17/2023 1:24:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/17/2023 1:24:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/17/2023 1:24:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/17/2023 1:24:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/17/2023 1:24:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/17/2023 1:24:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB