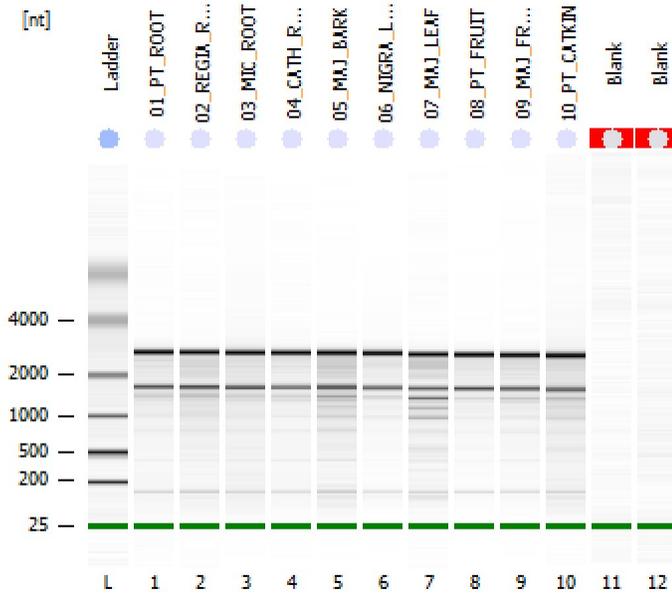


Assay Class: Plant RNA Nano  
Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
Modified: 8/30/2023 4:16:07 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

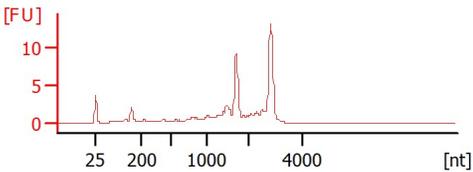
Assay Class: Plant RNA Nano  
Version: 1.3  
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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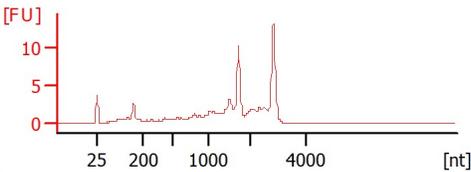
Chip Information:

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

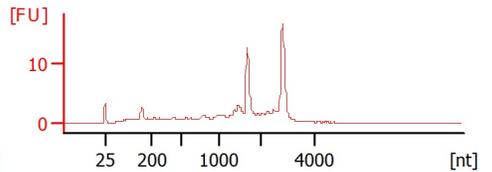
**01\_PT\_ROOT**  
RIN: 7.70



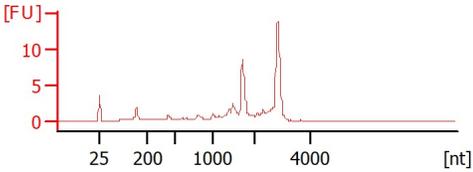
**02\_REGIA\_ROOT**  
RIN: 7.20



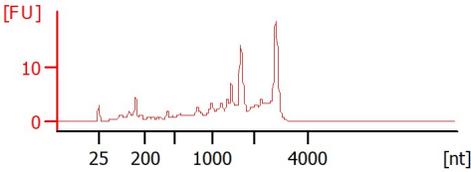
**03\_MIC\_ROOT**  
RIN: 7.40



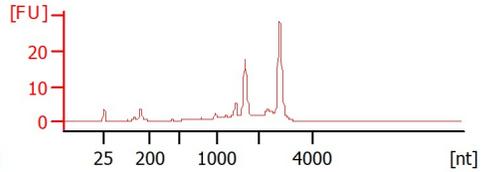
**04\_CATH\_ROOT**  
RIN: 7.90



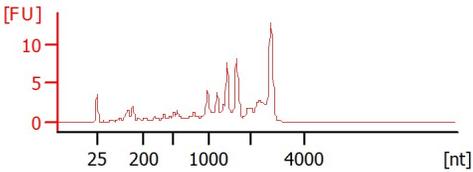
**05\_MAJ\_BARK**  
RIN: 6.90



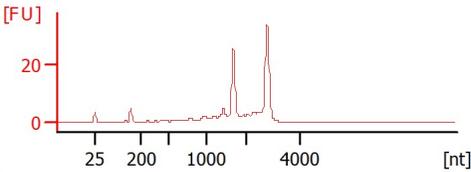
**06\_NIGRA\_LEAF**  
RIN: 8.30



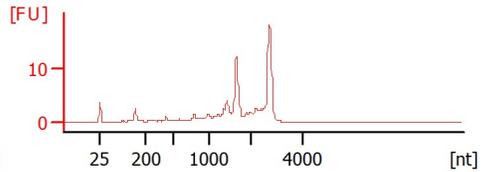
**07\_MAJ\_LEAF**  
RIN: 6.90



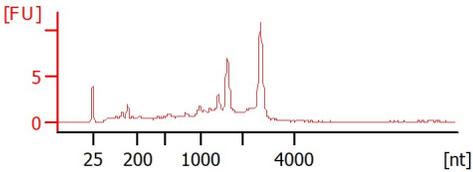
**08\_PT\_FRUIT**  
RIN: 8.10



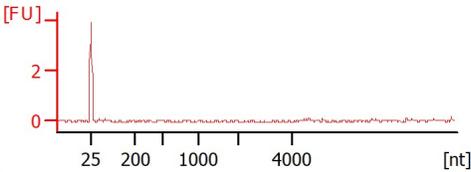
**09\_MAJ\_FRUIT**  
RIN: 7.90



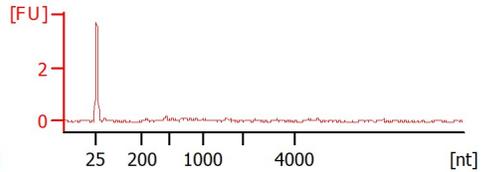
**10\_PT\_CATKIN**  
RIN: 7.50



**Blank**  
RIN N/A



**Blank**  
RIN N/A



Assay Class: Plant RNA Nano  
 Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
 Modified: 8/30/2023 4:16:07 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
01_PT_ROOT		✓	RIN: 7.70	
02_REGIA_ROOT		✓	RIN: 7.20	
03_MIC_ROOT		✓	RIN: 7.40	
04_CATH_ROOT		✓	RIN: 7.90	
05_MAJ_BARK		✓	RIN: 6.90	
06_NIGRA_LEAF		✓	RIN: 8.30	
07_MAJ_LEAF		✓	RIN: 6.90	
08_PT_FRUIT		✓	RIN: 8.10	
09_MAJ_FRUIT		✓	RIN: 7.90	
10_PT_CATKIN		✓	RIN: 7.50	
Blank		✓	RIN N/A	
Blank		✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
 Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
 Modified: 8/30/2023 4:16:07 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

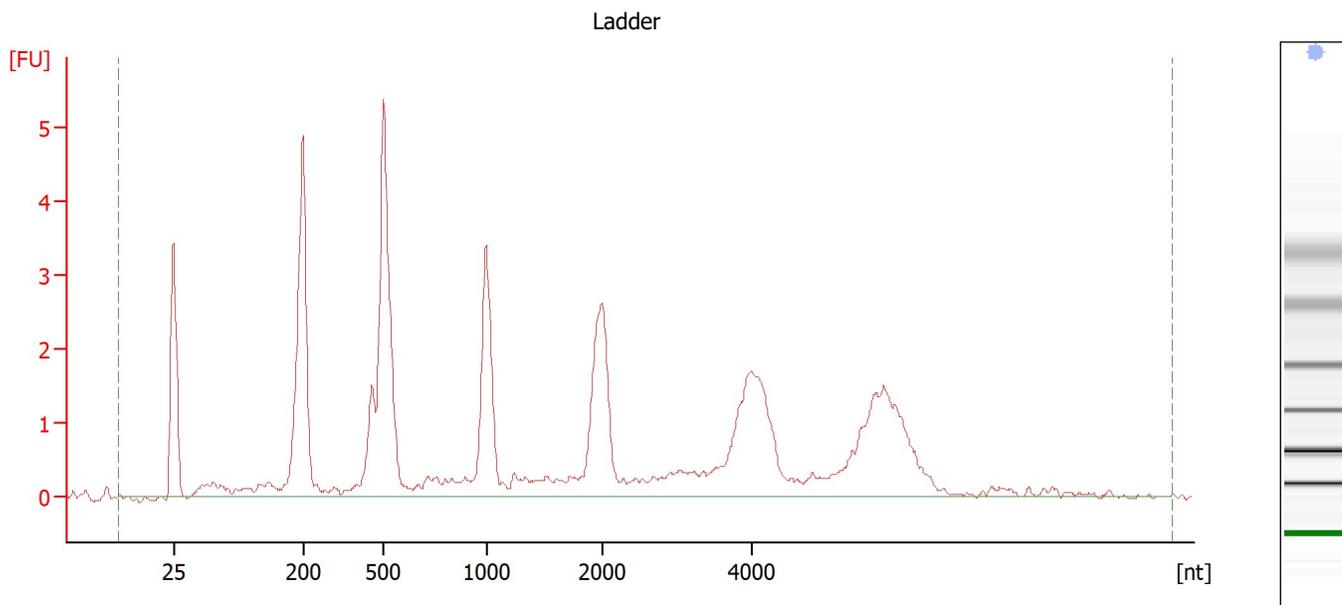
**Ladder**

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

Assay Class: Plant RNA Nano  
Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
Modified: 8/30/2023 4:16:07 PM

**Electropherogram Summary**



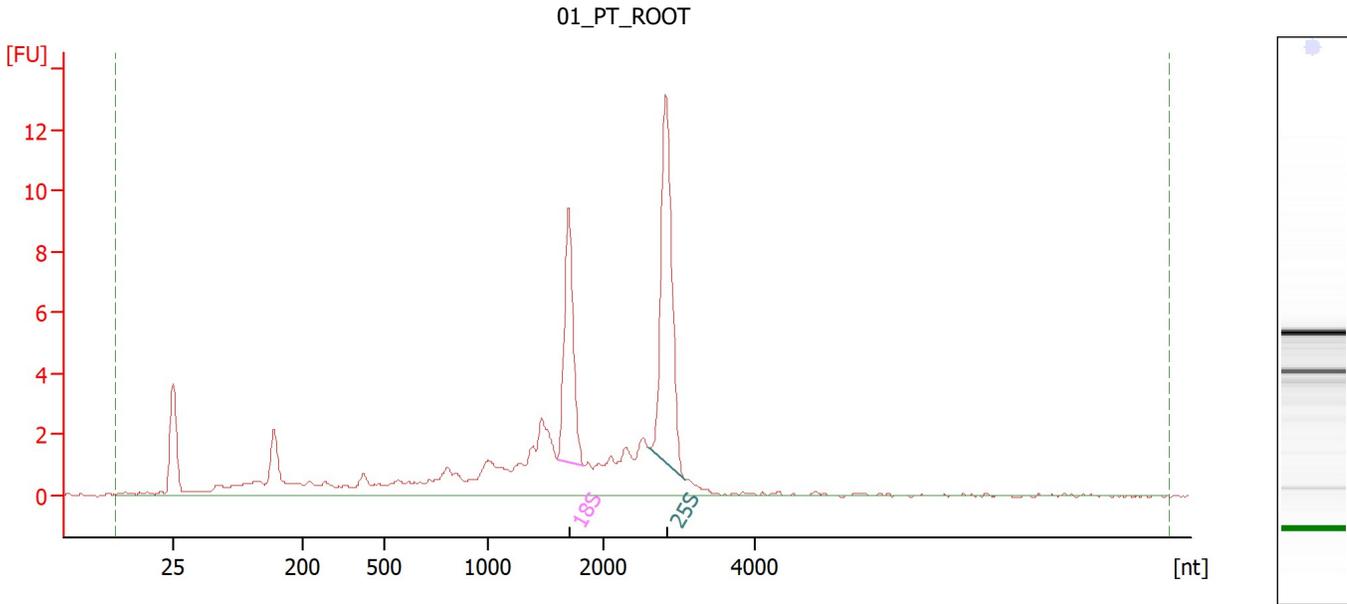
**Overall Results for Ladder**

RNA Area:	54.2	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: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
 Modified: 8/30/2023 4:16:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 01\_PT\_ROOT**

RNA Area:	75.5	RNA Integrity Number (RIN):	7.7 (B.02.10)
RNA Concentration:	209 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: 7.70

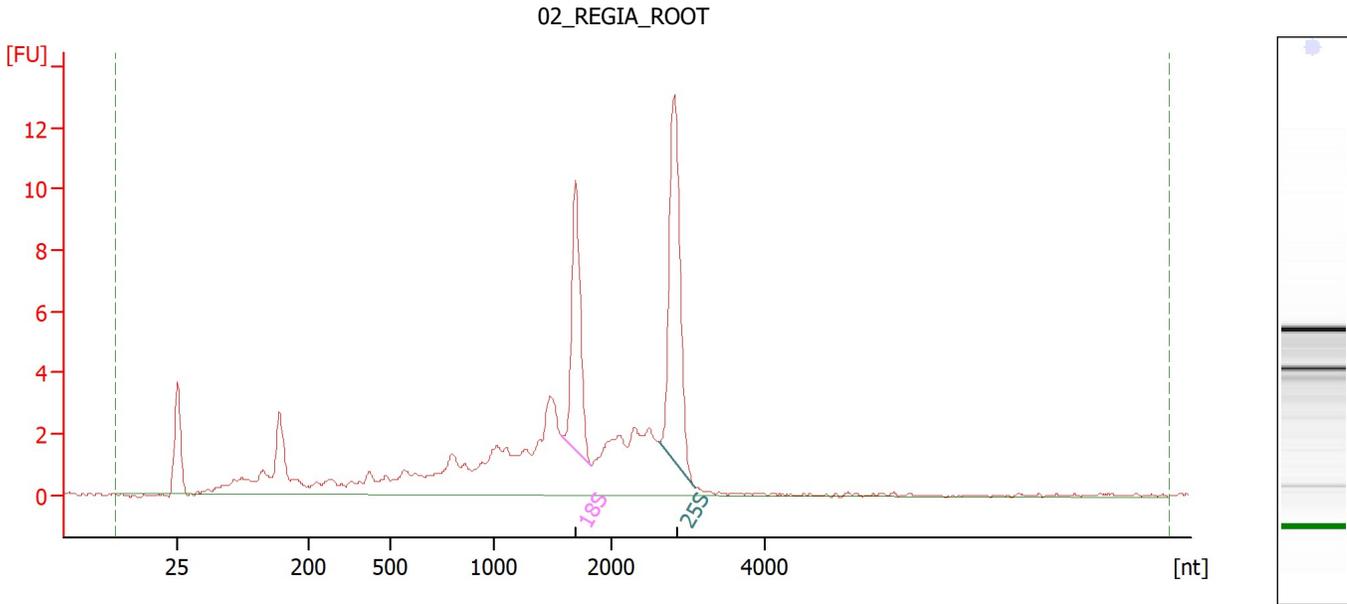
**Fragment table for sample 1 : 01\_PT\_ROOT**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,835	10.2	13.5
25S	2,619	3,096	16.0	21.2

Assay Class: Plant RNA Nano  
 Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
 Modified: 8/30/2023 4:16:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 02\_REGIA\_ROOT**

RNA Area:	90.9	RNA Integrity Number (RIN):	7.2 (B.02.10)
RNA Concentration:	252 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: 7.20

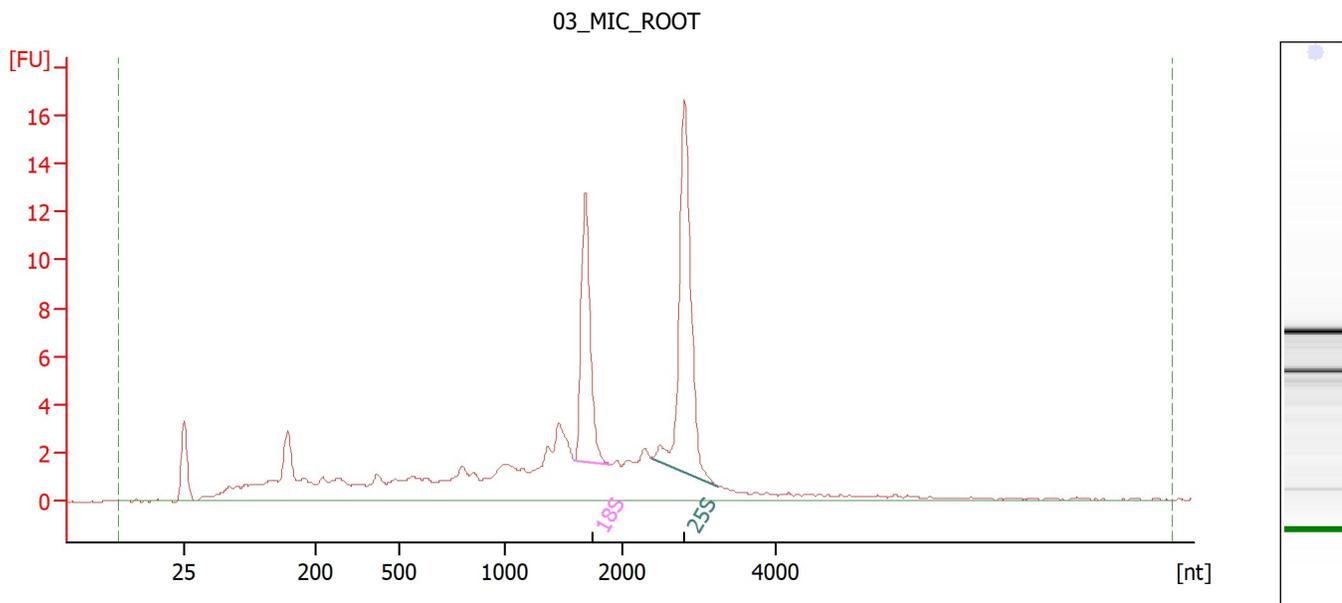
**Fragment table for sample 2 : 02\_REGIA\_ROOT**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	1,831	10.0	11.0
25S	2,632	3,091	15.3	16.8

Assay Class: Plant RNA Nano  
 Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
 Modified: 8/30/2023 4:16:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 03\_MIC\_ROOT**

RNA Area:	117.4	RNA Integrity Number (RIN):	7.4 (B.02.10)
RNA Concentration:	325 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: 7.40

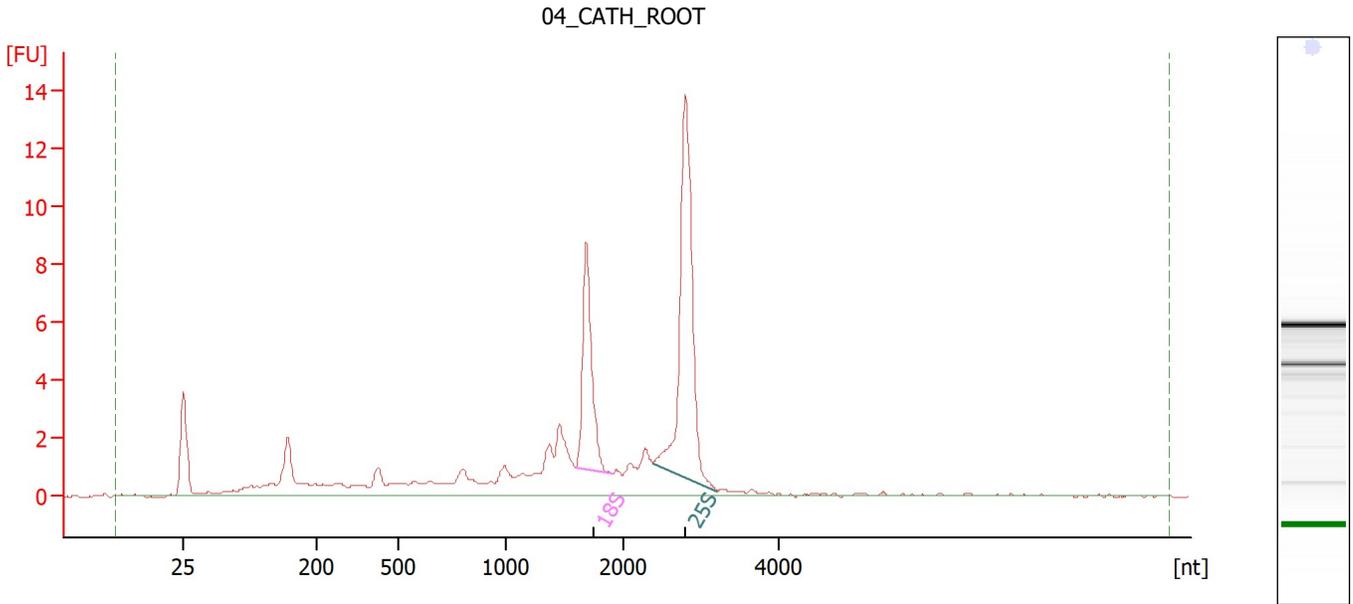
**Fragment table for sample 3 : 03\_MIC\_ROOT**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,600	1,899	13.2	11.2
25S	2,398	3,238	21.7	18.5

Assay Class: Plant RNA Nano  
 Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
 Modified: 8/30/2023 4:16:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 04\_CATH\_ROOT**

RNA Area:	72.0	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	199 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]:	2.0	Result Flagging Label:	RIN: 7.90

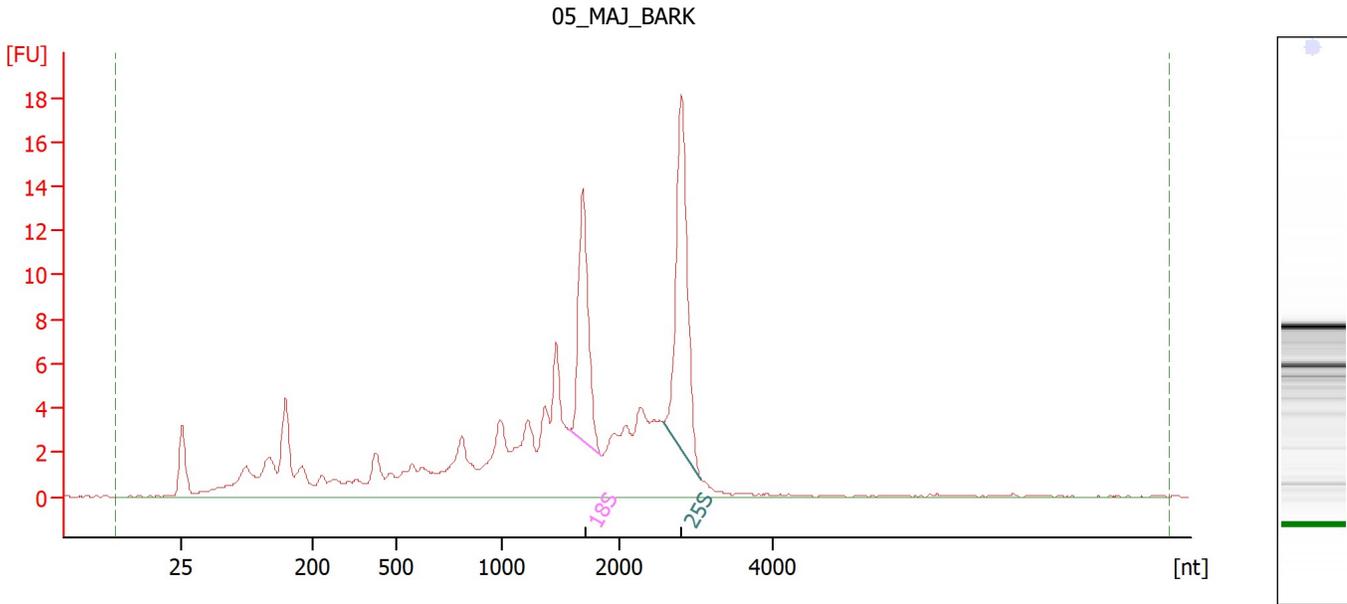
**Fragment table for sample 4 : 04\_CATH\_ROOT**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,604	1,910	9.4	13.1
25S	2,385	3,207	18.8	26.2

Assay Class: Plant RNA Nano  
 Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
 Modified: 8/30/2023 4:16:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 05\_MAJ\_BARK**

RNA Area:	159.1	RNA Integrity Number (RIN):	6.9 (B.02.10)
RNA Concentration:	440 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: 6.90

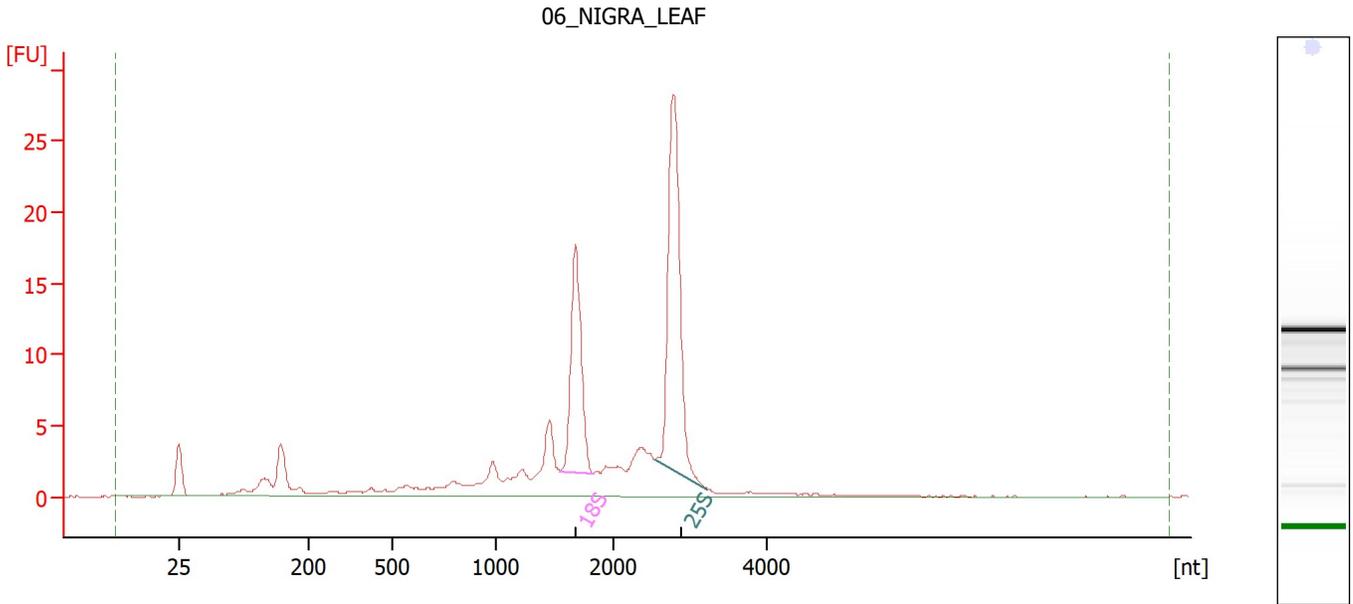
**Fragment table for sample 5 : 05\_MAJ\_BARK**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,573	1,845	14.6	9.1
25S	2,577	3,072	21.5	13.5

Assay Class: Plant RNA Nano  
Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
Modified: 8/30/2023 4:16:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 06\_NIGRA\_LEAF**

RNA Area: 135.0                      RNA Integrity Number (RIN): 8.3 (B.02.10)  
RNA Concentration: 374 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.7                      Result Flagging Label: RIN: 8.30

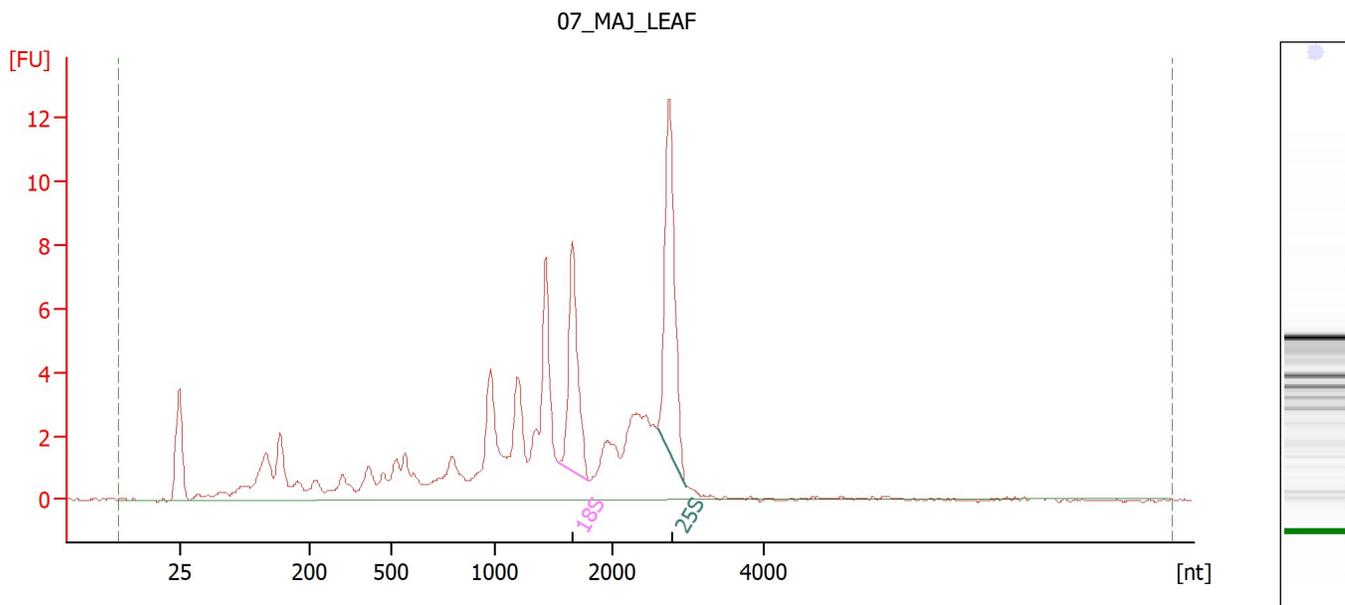
**Fragment table for sample 6 : 06\_NIGRA\_LEAF**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,550	1,832	21.3	15.8
25S	2,549	3,228	36.4	27.0

Assay Class: Plant RNA Nano  
 Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
 Modified: 8/30/2023 4:16:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 07\_MAJ\_LEAF**

RNA Area:	95.6	RNA Integrity Number (RIN):	6.9 (B.02.10)
RNA Concentration:	264 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: 6.90

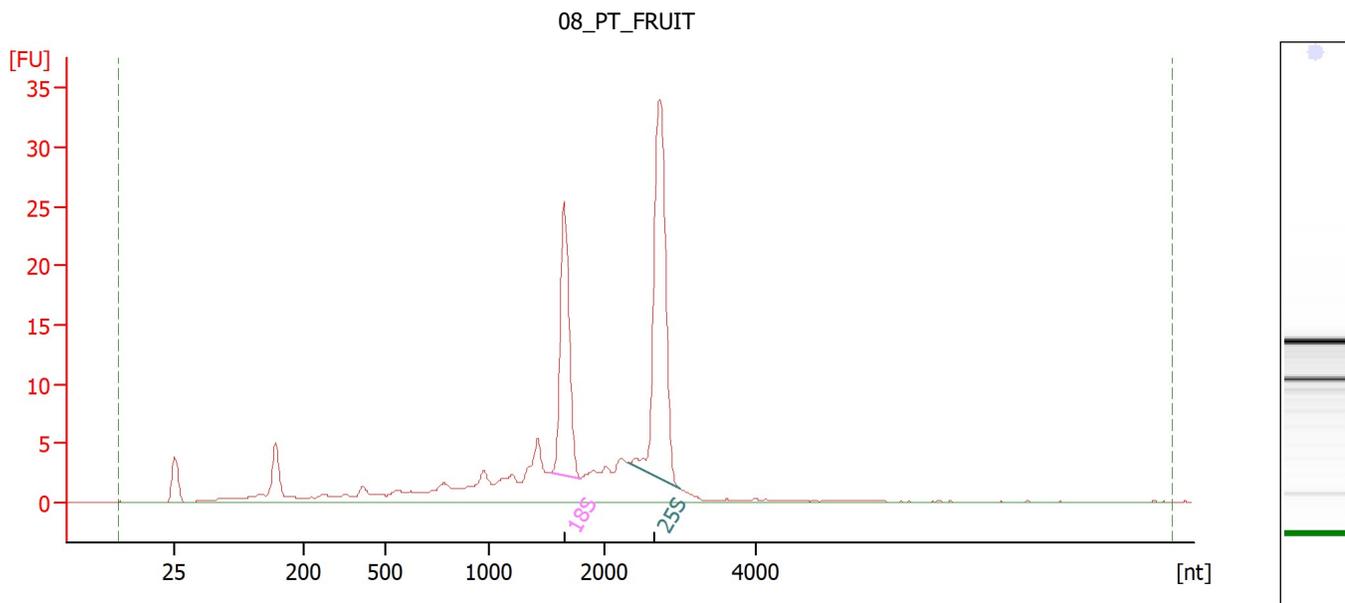
**Fragment table for sample 7 : 07\_MAJ\_LEAF**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,537	1,802	8.9	9.3
25S	2,605	2,981	13.4	14.0

Assay Class: Plant RNA Nano  
 Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
 Modified: 8/30/2023 4:16:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 08\_PT\_FRUIT**

RNA Area:	168.1	RNA Integrity Number (RIN):	8.1 (B.02.10)
RNA Concentration:	465 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: 8.10

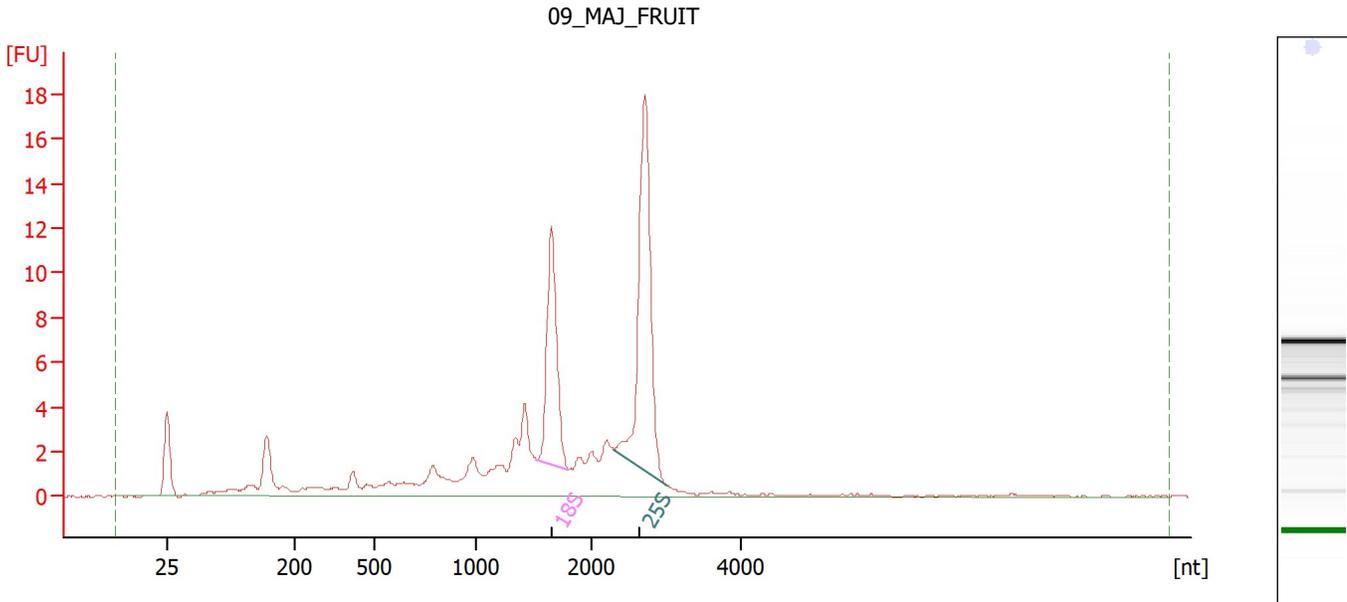
**Fragment table for sample 8 : 08\_PT\_FRUIT**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,538	1,797	27.4	16.3
25S	2,324	3,013	45.6	27.1

Assay Class: Plant RNA Nano  
 Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
 Modified: 8/30/2023 4:16:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 09\_MAJ\_FRUIT**

RNA Area:	99.1	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	274 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: 7.90

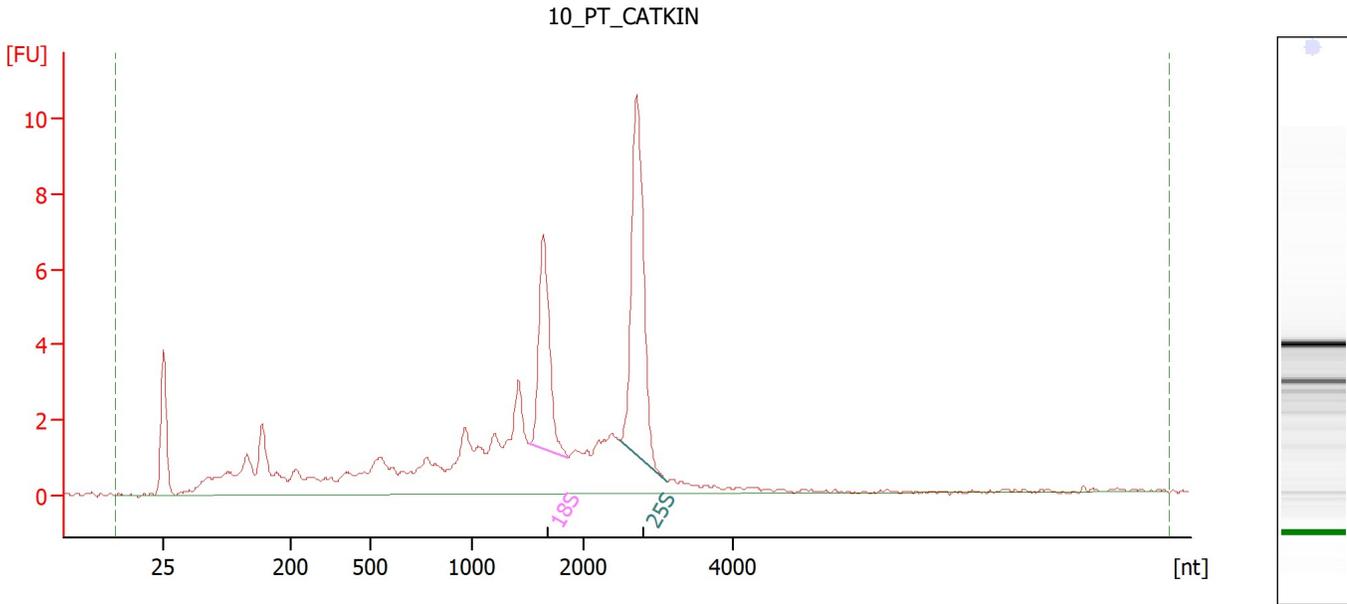
**Fragment table for sample 9 : 09\_MAJ\_FRUIT**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,520	1,800	14.0	14.1
25S	2,307	3,018	24.5	24.7

Assay Class: Plant RNA Nano  
 Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
 Modified: 8/30/2023 4:16:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 10\_PT\_CATKIN**

RNA Area:	84.9	RNA Integrity Number (RIN):	7.5 (B.02.10)
RNA Concentration:	235 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

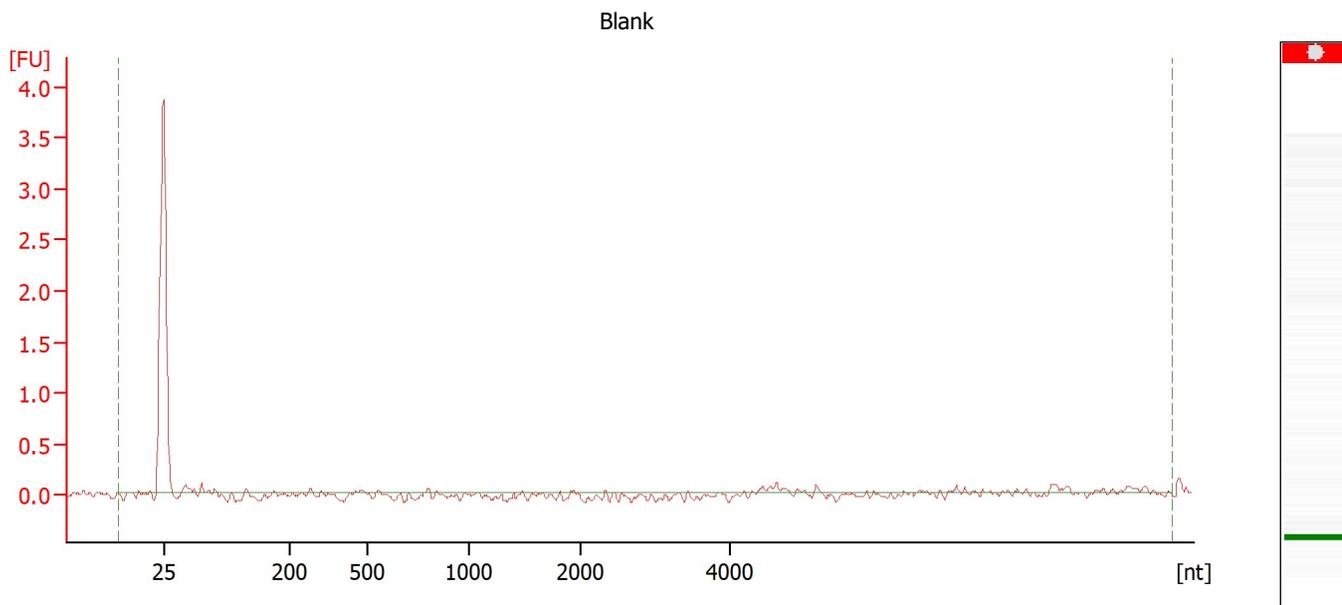
**Fragment table for sample 10 : 10\_PT\_CATKIN**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,523	1,852	8.3	9.8
25S	2,477	3,121	14.3	16.9

Assay Class: Plant RNA Nano  
 Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
 Modified: 8/30/2023 4:16:07 PM

**Electropherogram Summary Continued ...**



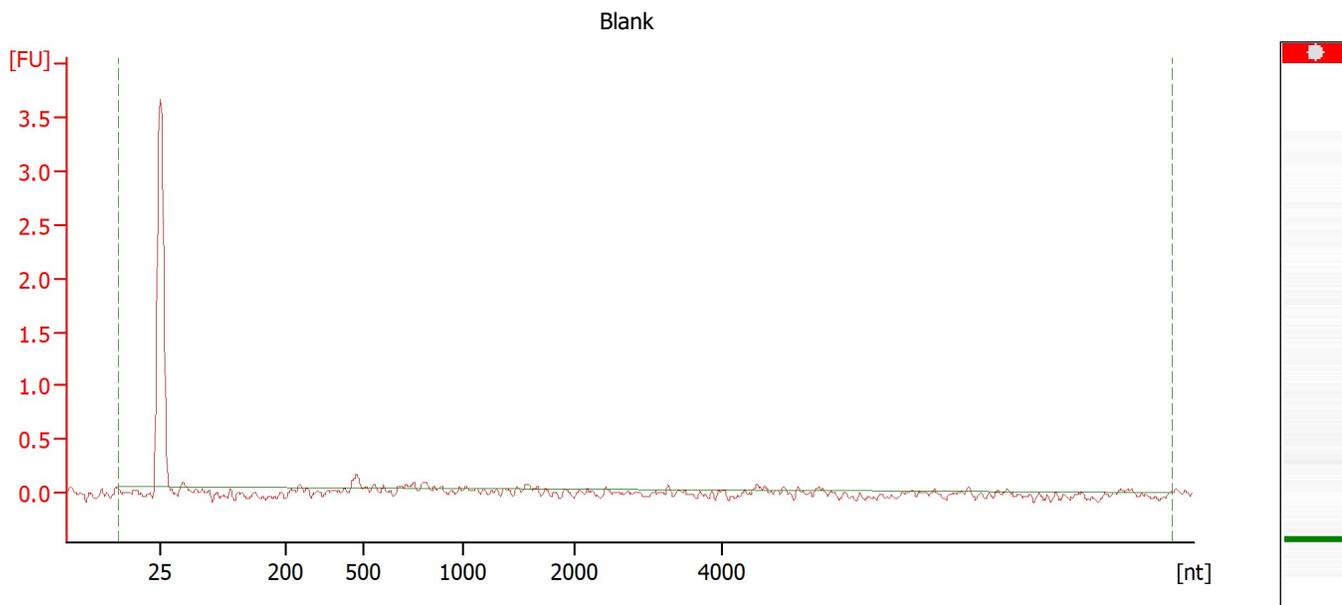
**Overall Results for sample 11 : Blank**

RNA Area:	0.8	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	2 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:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
 Modified: 8/30/2023 4:16:07 PM

**Electropherogram Summary Continued ...**



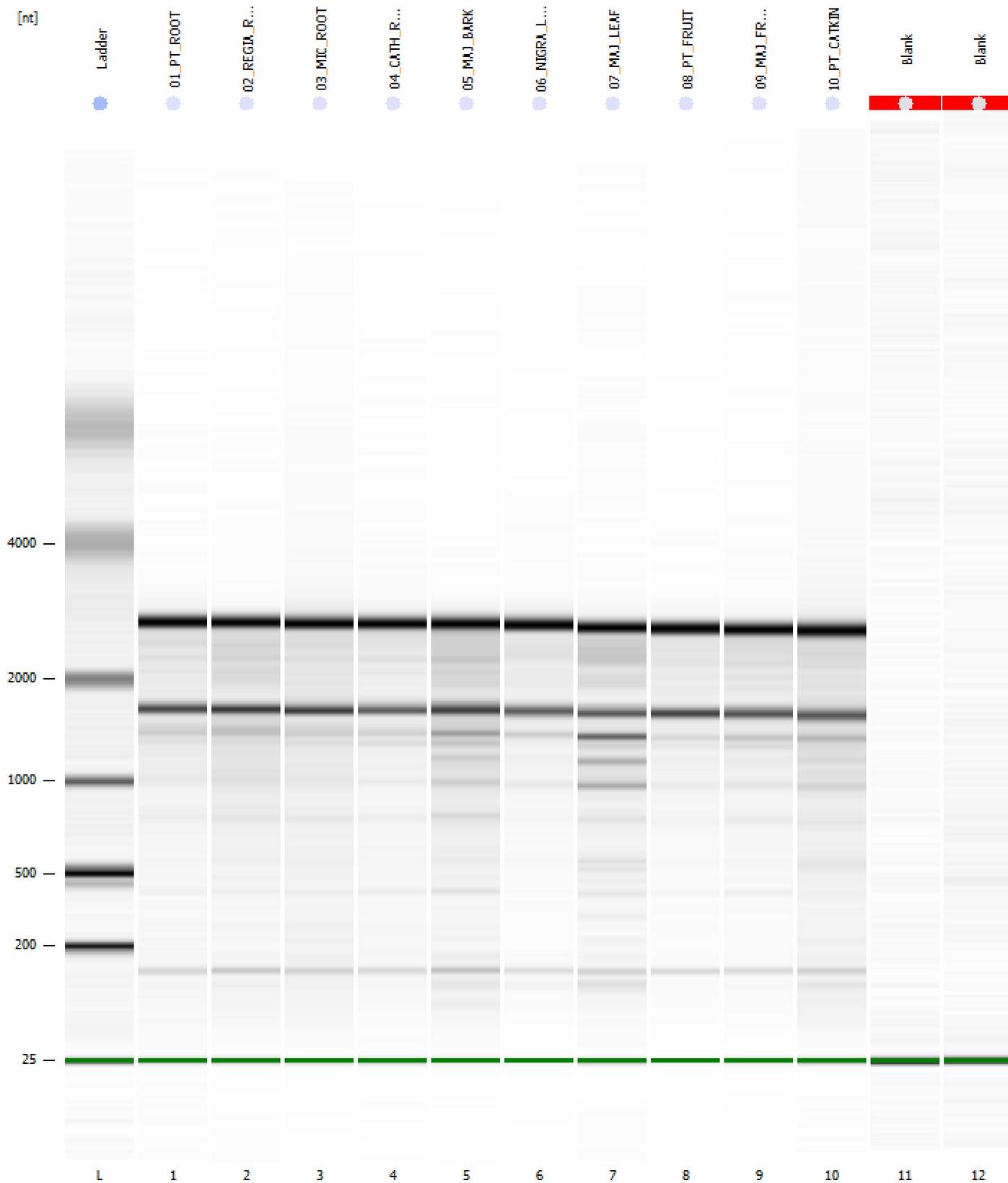
**Overall Results for sample 12 : Blank**

RNA Area:	0.5	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:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
Modified: 8/30/2023 4:16:07 PM

Gel Image

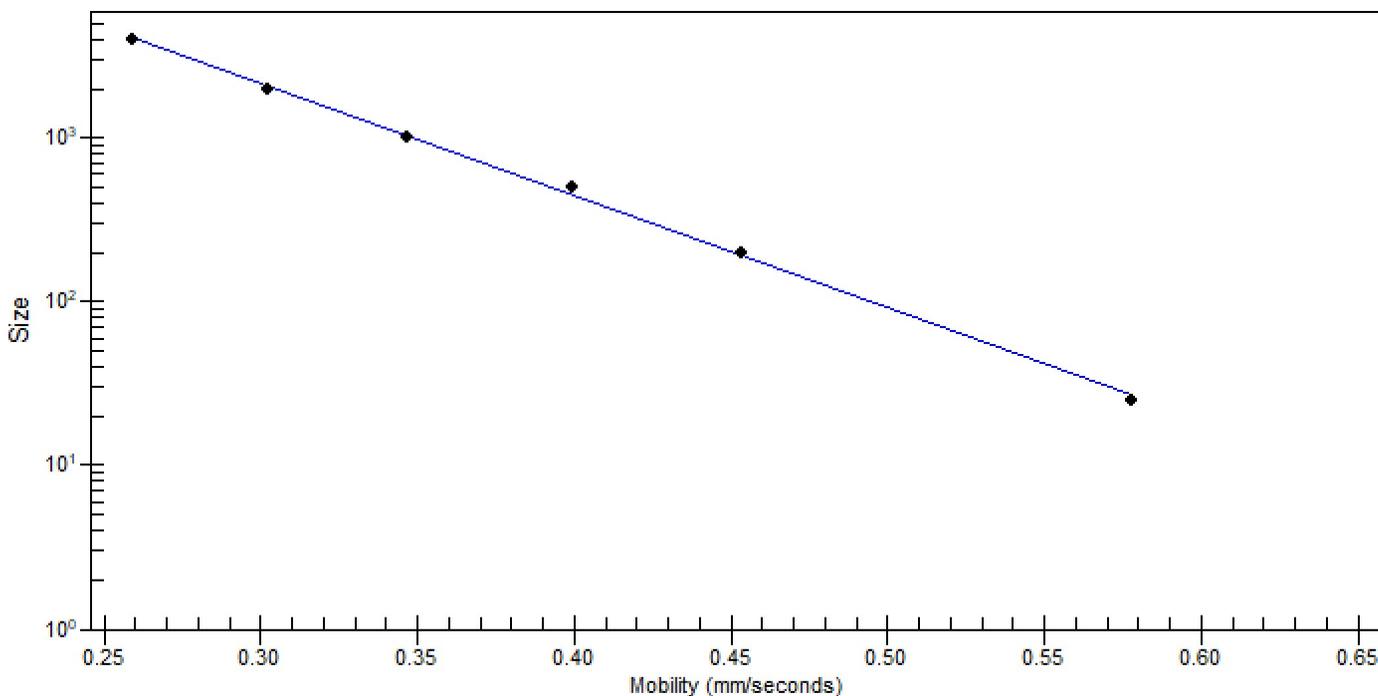


Assay Class: Plant RNA Nano  
Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
Modified: 8/30/2023 4:16:07 PM

**Curves**

**Standard Curve**



Assay Class: Plant RNA Nano  
 Data Path: C:\...0\Bioanalyzer1\_Plant RNA Nano\_DE34903152\_2023-08-30\_001.xad

Created: 8/30/2023 2:56:25 PM  
 Modified: 8/30/2023 4:16:07 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		8/30/2023 3:20:14 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\2023-08-30\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-08-30 Product Number : G2938C		Instrument	Run		8/30/2023 2:56:31 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/30/2023 2:56:31 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/30/2023 2:56:31 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/30/2023 2:56:31 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/30/2023 2:56:31 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/30/2023 2:56:31 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB