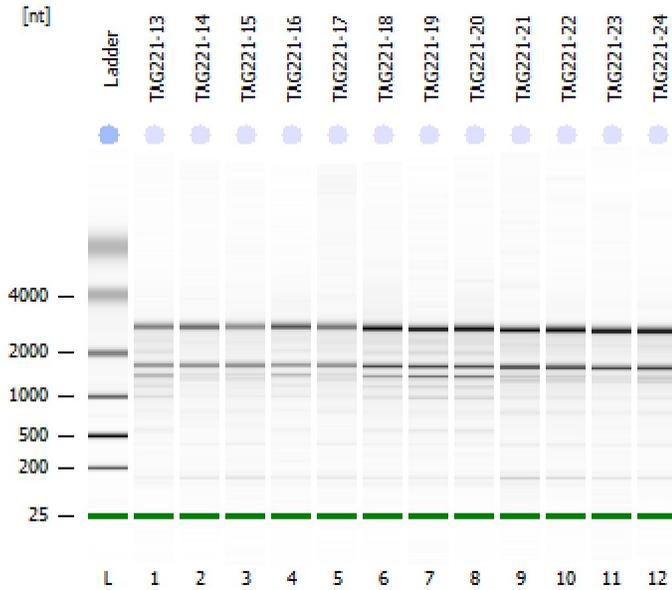


Assay Class: Plant RNA Nano
Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
Modified: 7/31/2023 11:29:50 AM

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

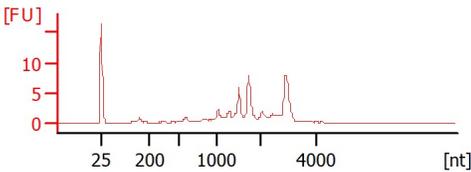
Assay Class: Plant RNA Nano
Version: 1.3
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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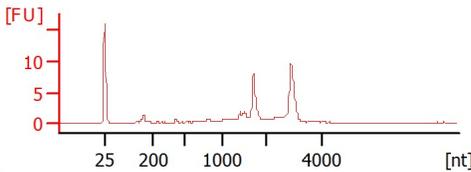
Chip Information:

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

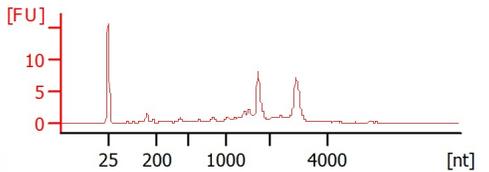
TAG221-13
TFL1
RIN: 7.50



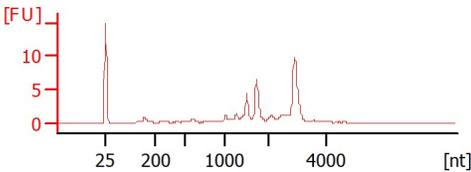
TAG221-14
FFL2
RIN: 8.10



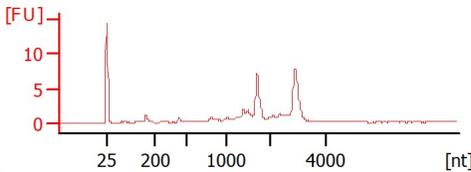
TAG221-15
TFB1
RIN: 7.70



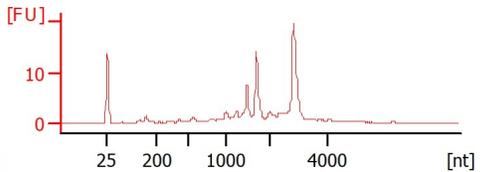
TAG221-16
TFL5
RIN: 7.90



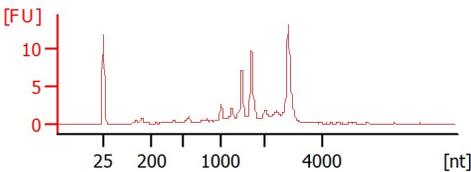
TAG221-17
TFB3
RIN: 7.90



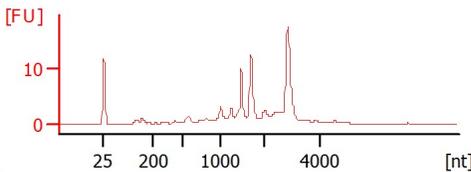
TAG221-18
FFL6
RIN: 7.90



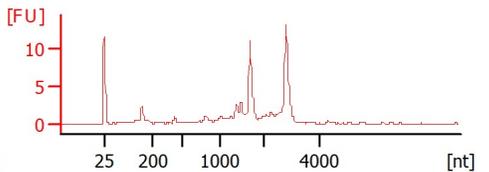
TAG221-19
TFL3
RIN: 7.60



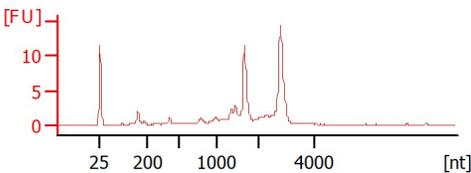
TAG221-20
FFL4
RIN: 7.60



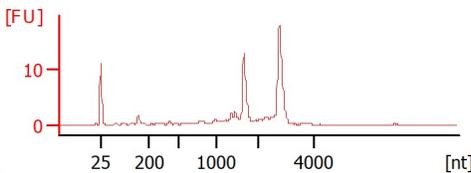
TAG221-21
FFB4
RIN: 7.80



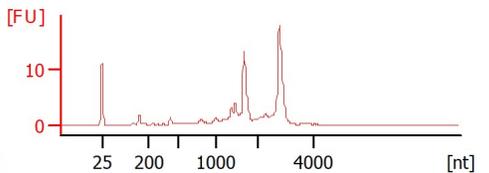
TAG221-22
FFB2
RIN: 8



TAG221-23
TFB5
RIN: 8.40



TAG221-24
FFB6
RIN: 8.10



Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
TAG221-13	TFL1	✓	RIN: 7.50	
TAG221-14	FFL2	✓	RIN: 8.10	
TAG221-15	TFB1	✓	RIN: 7.70	
TAG221-16	TFL5	✓	RIN: 7.90	
TAG221-17	TFB3	✓	RIN: 7.90	
TAG221-18	FFL6	✓	RIN: 7.90	
TAG221-19	TFL3	✓	RIN: 7.60	
TAG221-20	FFL4	✓	RIN: 7.60	
TAG221-21	FFB4	✓	RIN: 7.80	
TAG221-22	FFB2	✓	RIN:8	
TAG221-23	TFB5	✓	RIN: 8.40	
TAG221-24	FFB6	✓	RIN: 8.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

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

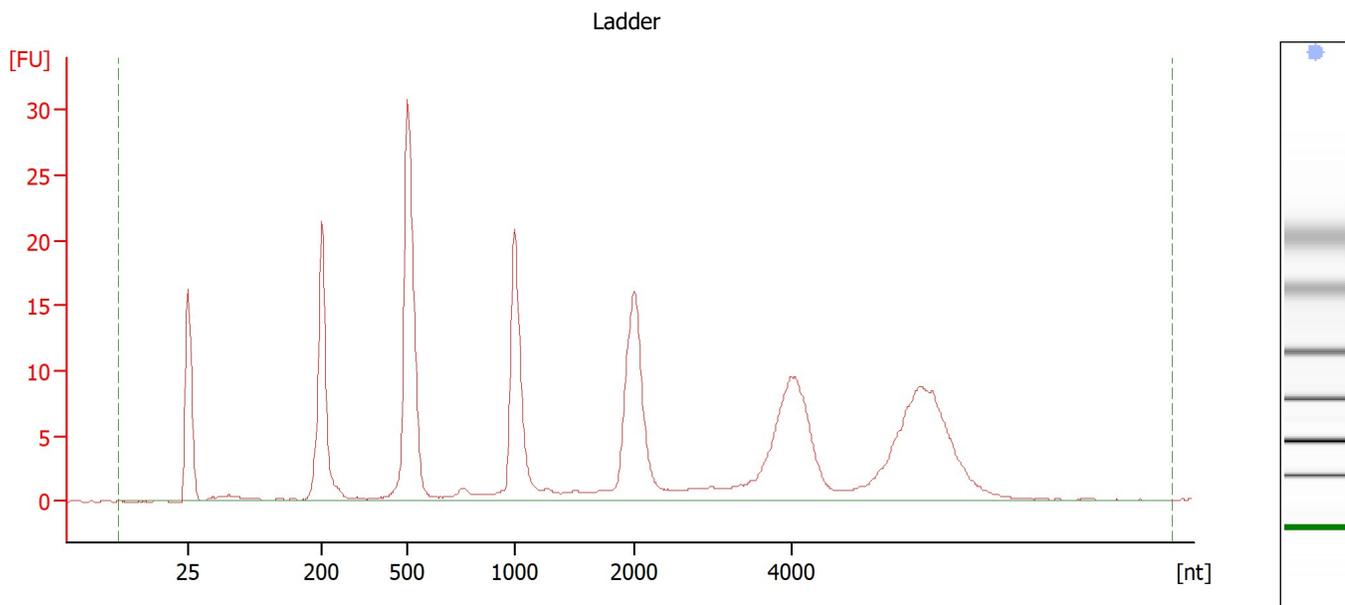
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
Modified: 7/31/2023 11:29:50 AM

Electropherogram Summary



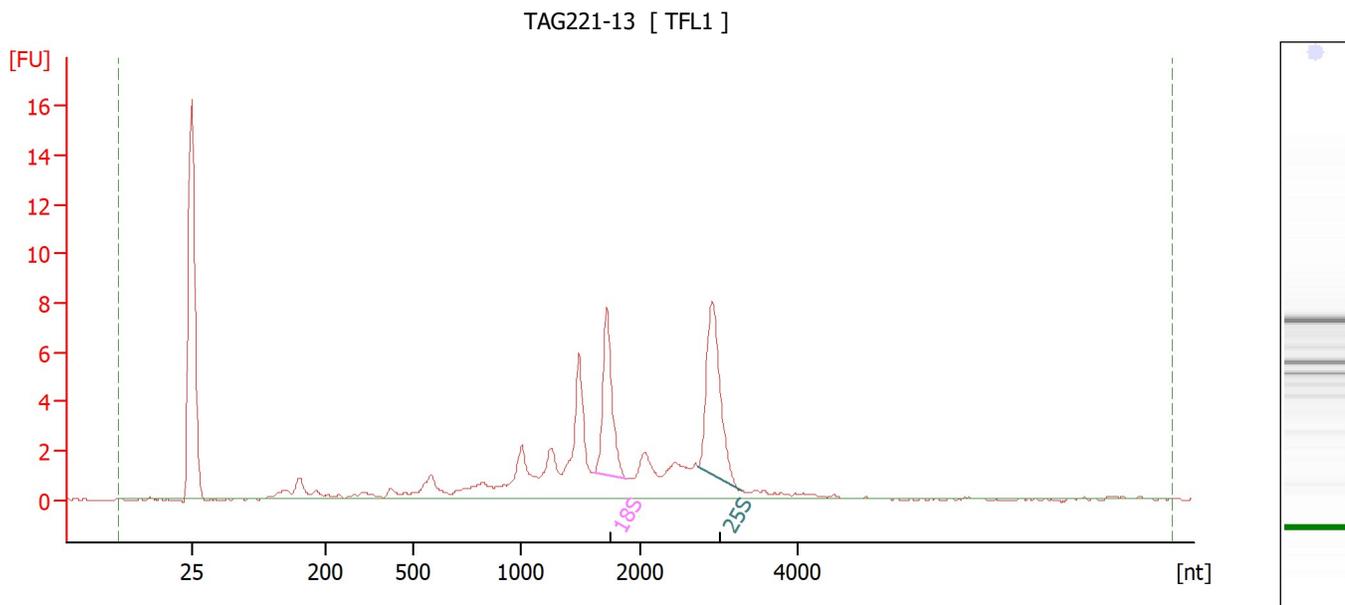
Overall Results for Ladder

RNA Area:	253.2	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : TAG221-13

RNA Area:	64.5	RNA Integrity Number (RIN):	7.5 (B.02.10)
RNA Concentration:	38 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.3	Result Flagging Label:	RIN: 7.50

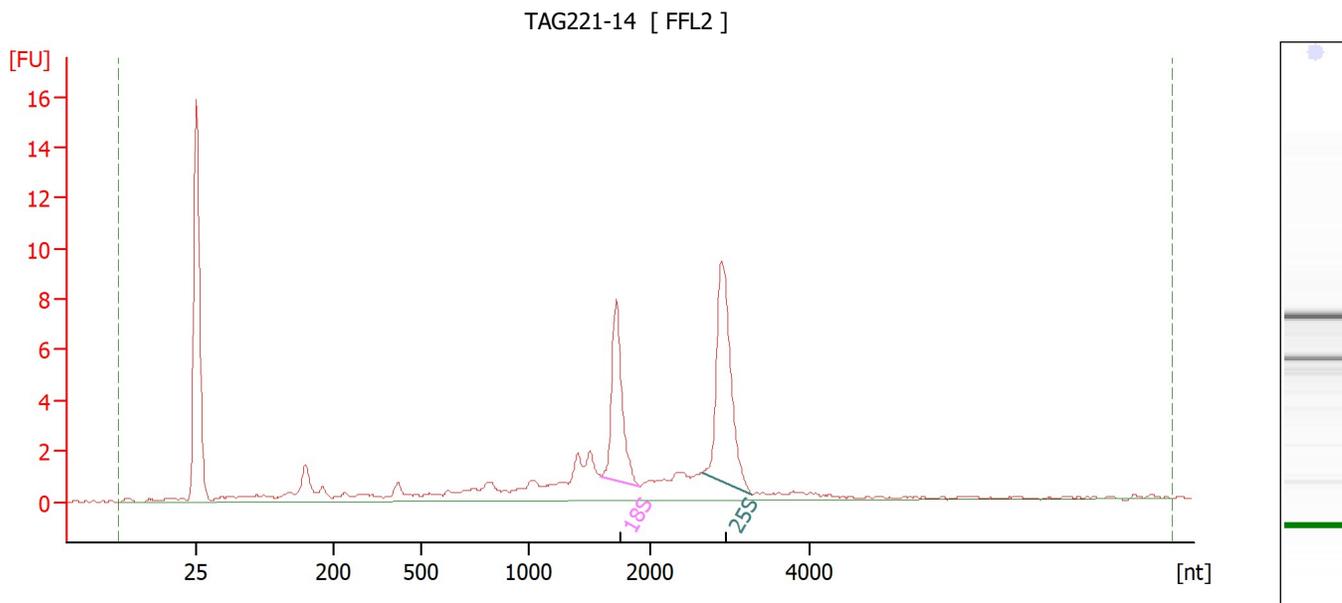
Fragment table for sample 1 : TAG221-13

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	1,887	8.2	12.7
25S	2,719	3,273	11.0	17.1

Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : TAG221-14

RNA Area:	62.2	RNA Integrity Number (RIN):	8.1 (B.02.10)
RNA Concentration:	37 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.5	Result Flagging Label:	RIN: 8.10

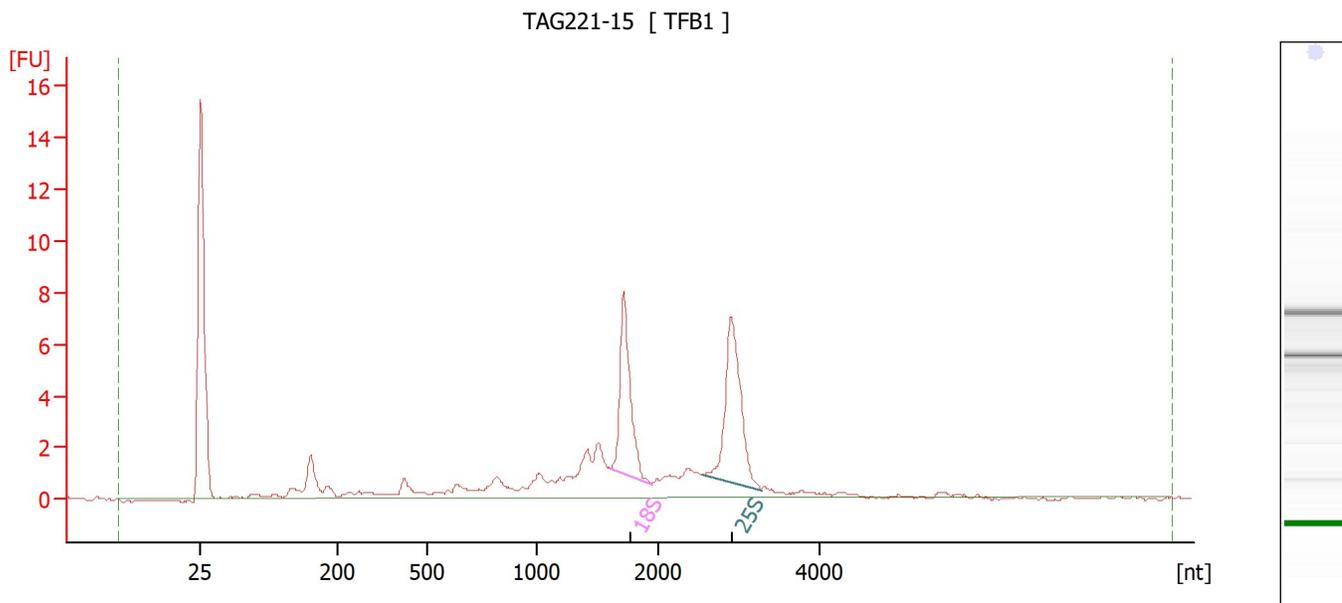
Fragment table for sample 2 : TAG221-14

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,587	1,909	9.0	14.5
25S	2,650	3,278	14.0	22.5

Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : TAG221-15

RNA Area:	56.9	RNA Integrity Number (RIN):	7.7 (B.02.10)
RNA Concentration:	34 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.3	Result Flagging Label:	RIN: 7.70

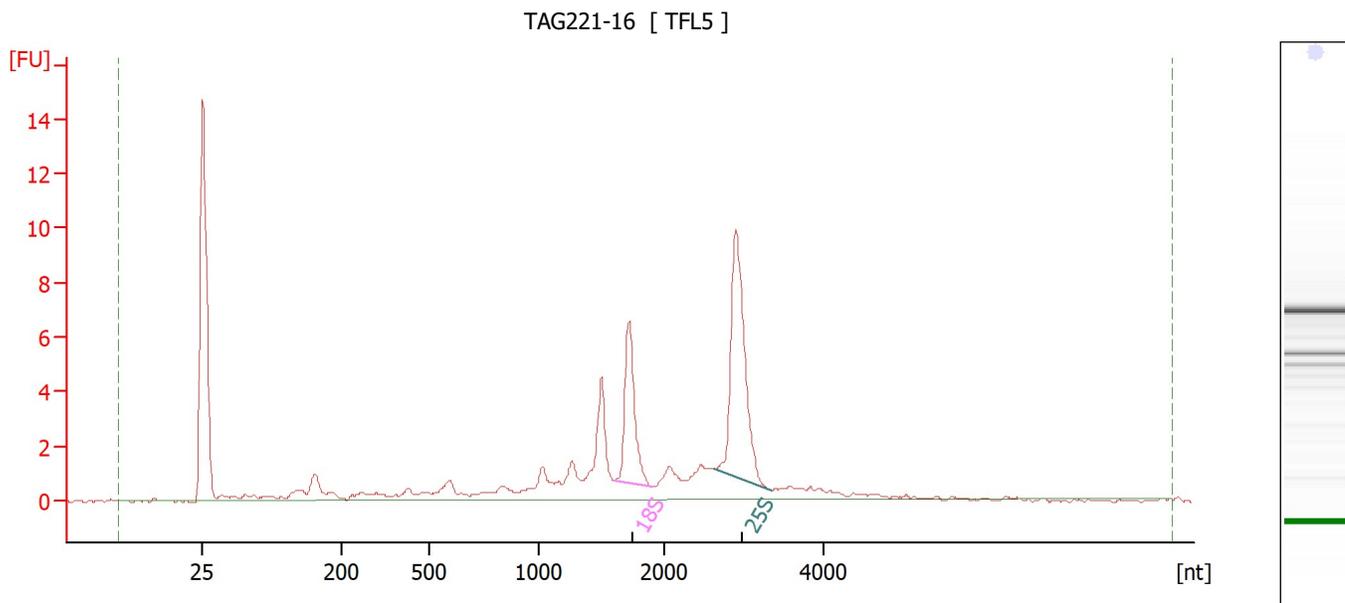
Fragment table for sample 3 : TAG221-15

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,938	8.9	15.6
25S	2,529	3,271	11.2	19.7

Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : TAG221-16

RNA Area:	61.3	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	36 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.0	Result Flagging Label:	RIN: 7.90

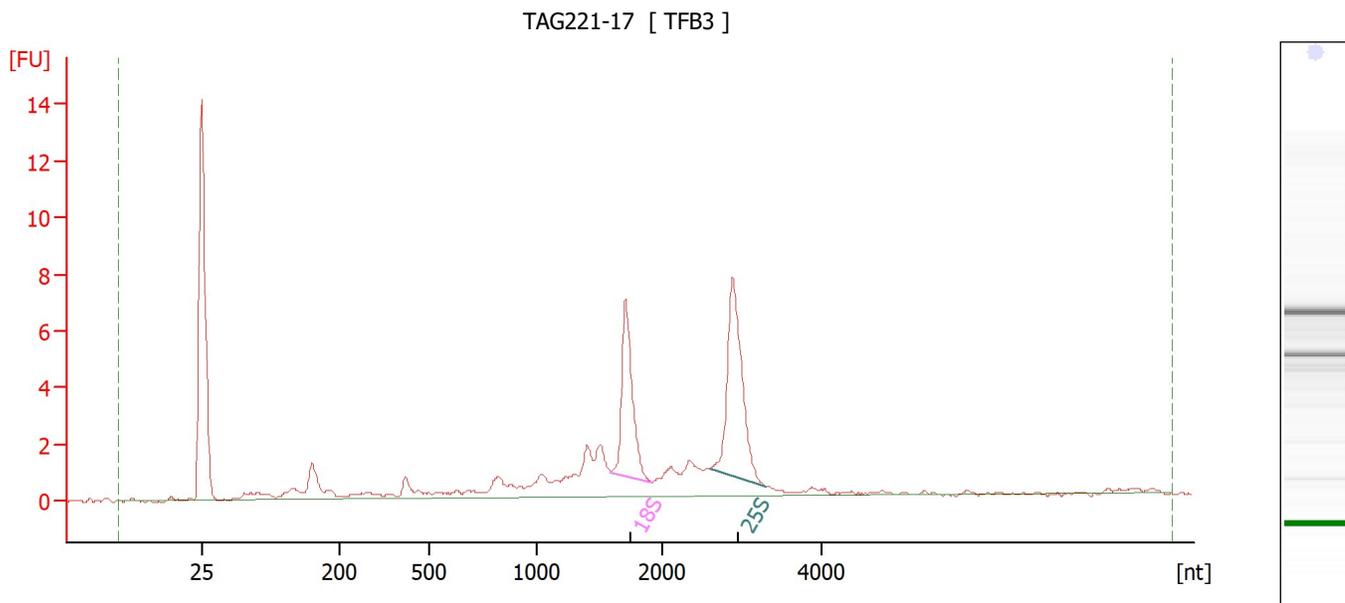
Fragment table for sample 4 : TAG221-16

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,906	7.1	11.5
25S	2,634	3,334	14.1	22.9

Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : TAG221-17

RNA Area:	54.4	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	32 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.5	Result Flagging Label:	RIN: 7.90

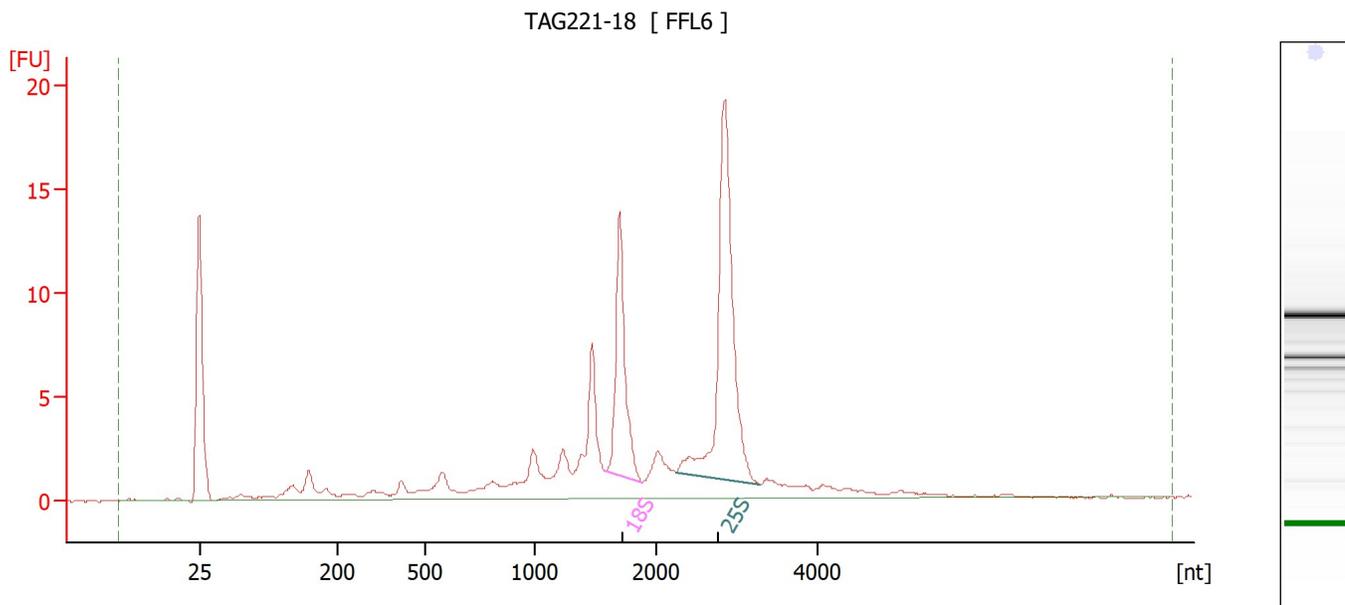
Fragment table for sample 5 : TAG221-17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,595	1,922	8.0	14.6
25S	2,595	3,309	11.6	21.4

Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : TAG221-18

RNA Area:	108.1	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	64 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.1	Result Flagging Label:	RIN: 7.90

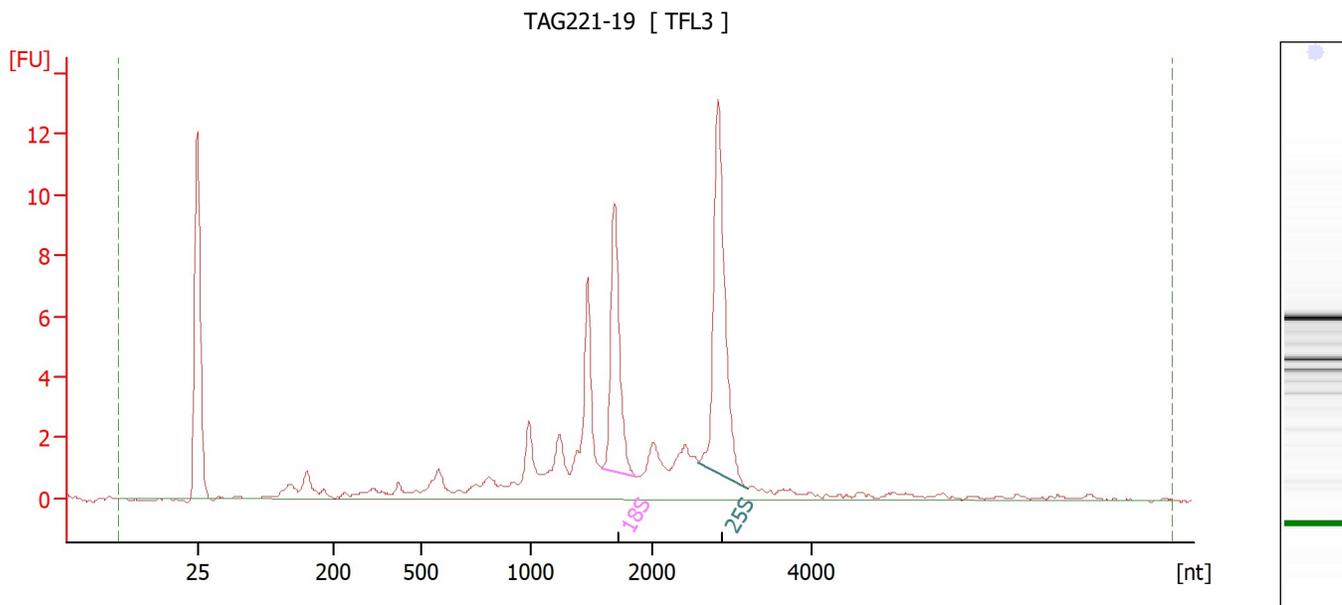
Fragment table for sample 6 : TAG221-18

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,575	1,877	14.4	13.3
25S	2,237	3,286	29.5	27.3

Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : TAG221-19

RNA Area:	72.5	RNA Integrity Number (RIN):	7.6 (B.02.10)
RNA Concentration:	43 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.7	Result Flagging Label:	RIN: 7.60

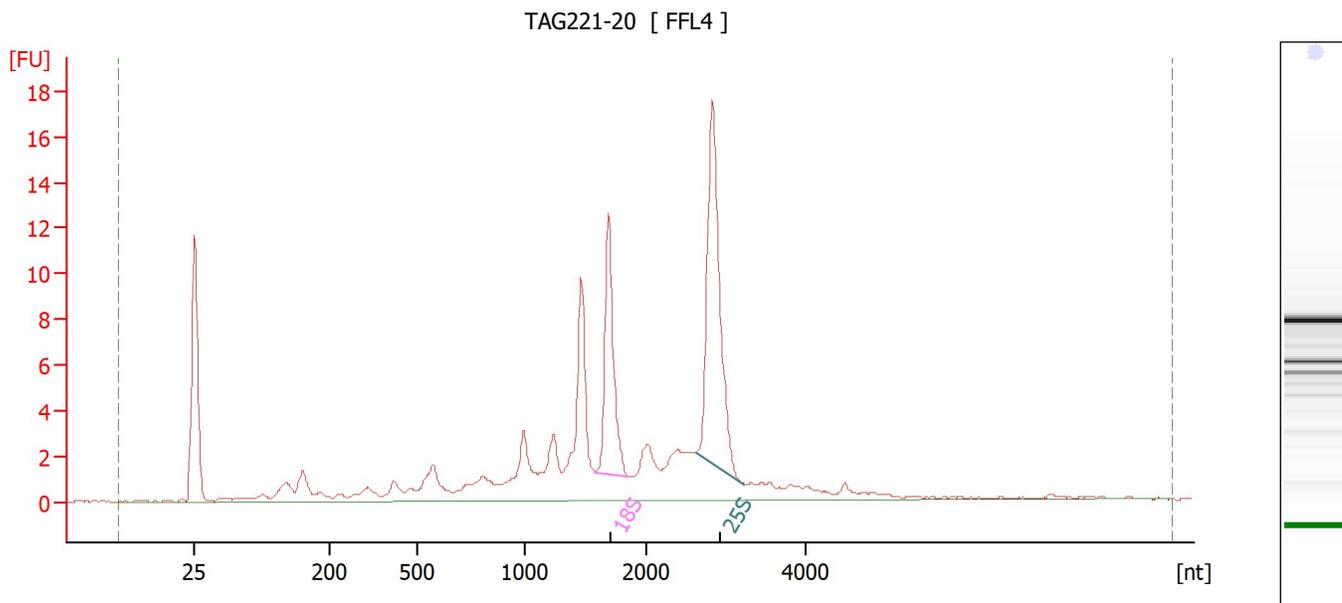
Fragment table for sample 7 : TAG221-19

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,580	1,858	9.4	13.0
25S	2,569	3,183	15.9	22.0

Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : TAG221-20

RNA Area:	110.8	RNA Integrity Number (RIN):	7.6 (B.02.10)
RNA Concentration:	66 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN: 7.60

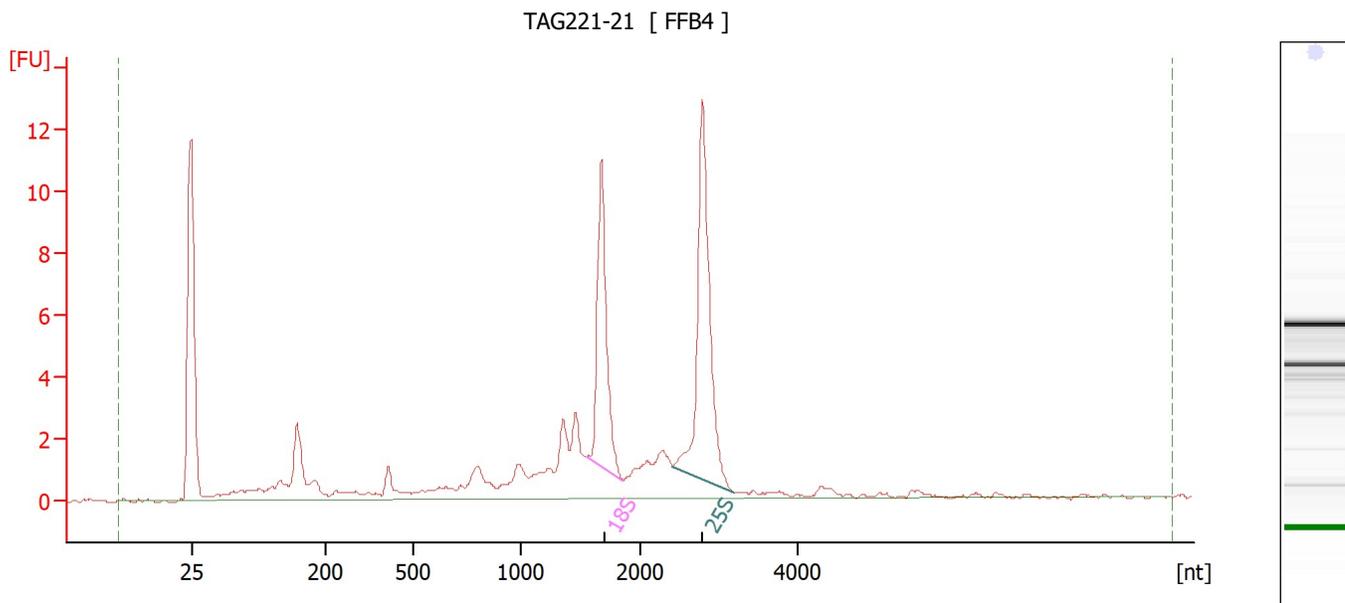
Fragment table for sample 8 : TAG221-20

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,576	1,846	12.5	11.3
25S	2,623	3,228	22.4	20.2

Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : TAG221-21

RNA Area:	75.4	RNA Integrity Number (RIN):	7.8 (B.02.10)
RNA Concentration:	45 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.5	Result Flagging Label:	RIN: 7.80

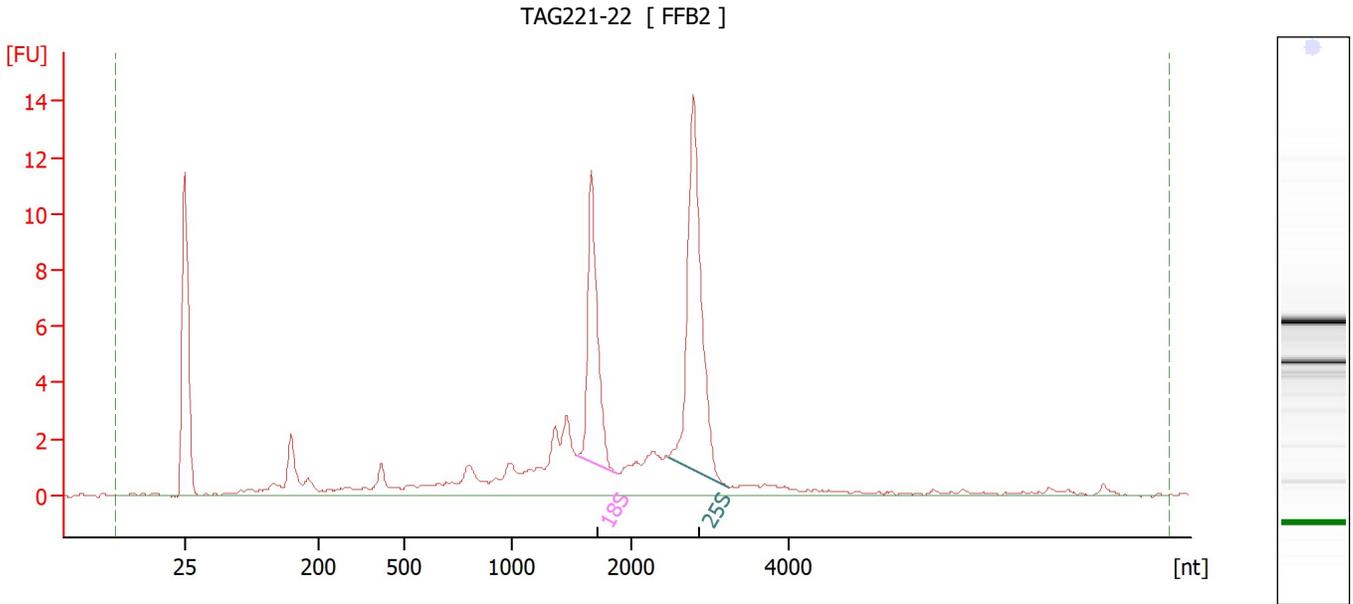
Fragment table for sample 9 : TAG221-21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,544	1,852	11.3	15.0
25S	2,408	3,192	17.0	22.6

Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : TAG221-22

RNA Area:	85.3	RNA Integrity Number (RIN):	8 (B.02.10)
RNA Concentration:	51 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.6	Result Flagging Label:	RIN:8

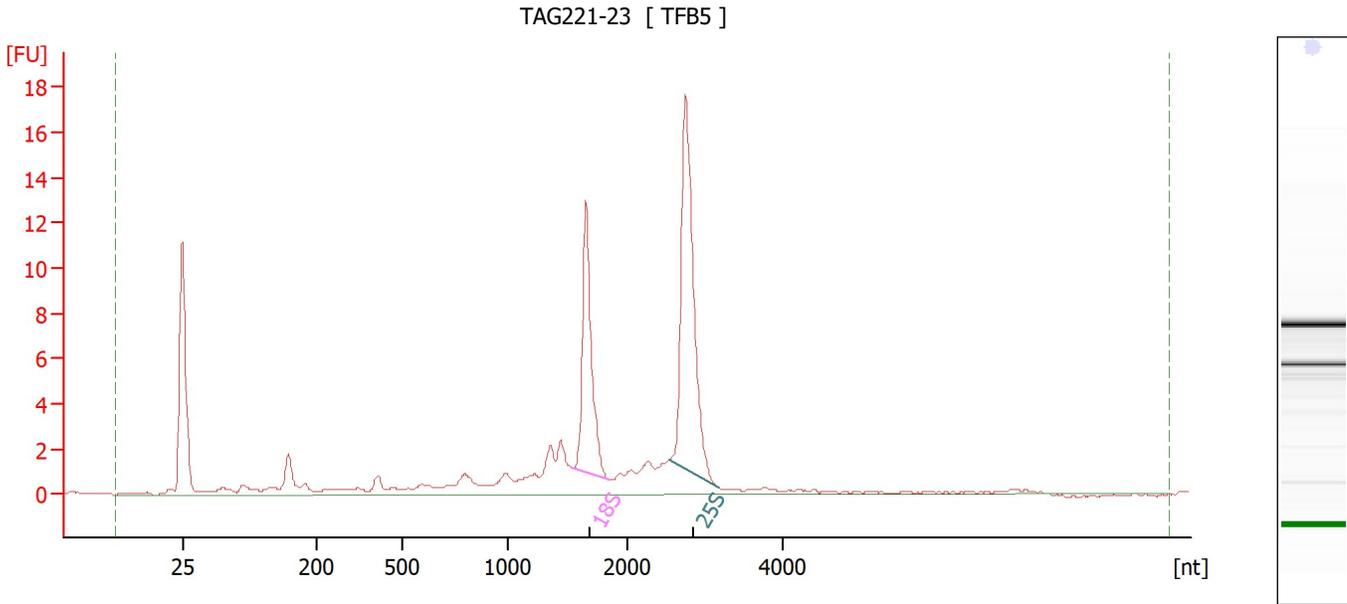
Fragment table for sample 10 : TAG221-22

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,548	1,876	12.6	14.8
25S	2,476	3,251	20.8	24.4

Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : TAG221-23

RNA Area:	83.0	RNA Integrity Number (RIN):	8.4 (B.02.10)
RNA Concentration:	49 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.7	Result Flagging Label:	RIN: 8.40

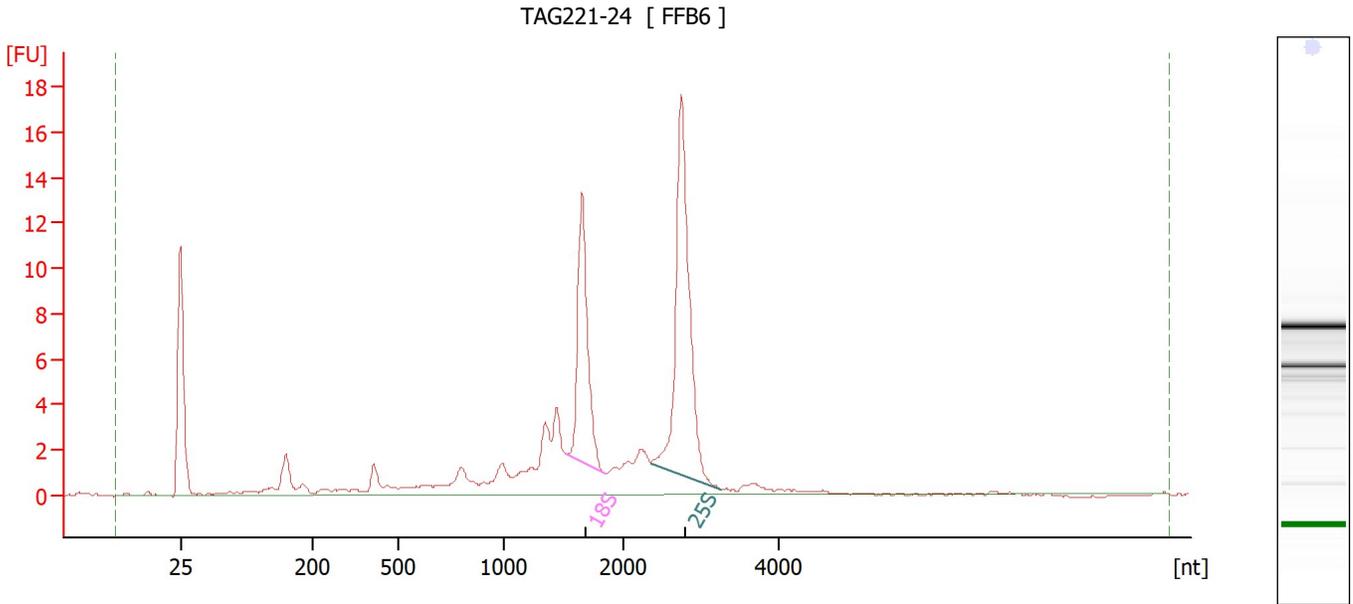
Fragment table for sample 11 : TAG221-23

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,536	1,847	14.1	17.0
25S	2,544	3,186	23.7	28.5

Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : TAG221-24

RNA Area:	95.8	RNA Integrity Number (RIN):	8.1 (B.02.10)
RNA Concentration:	57 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN: 8.10

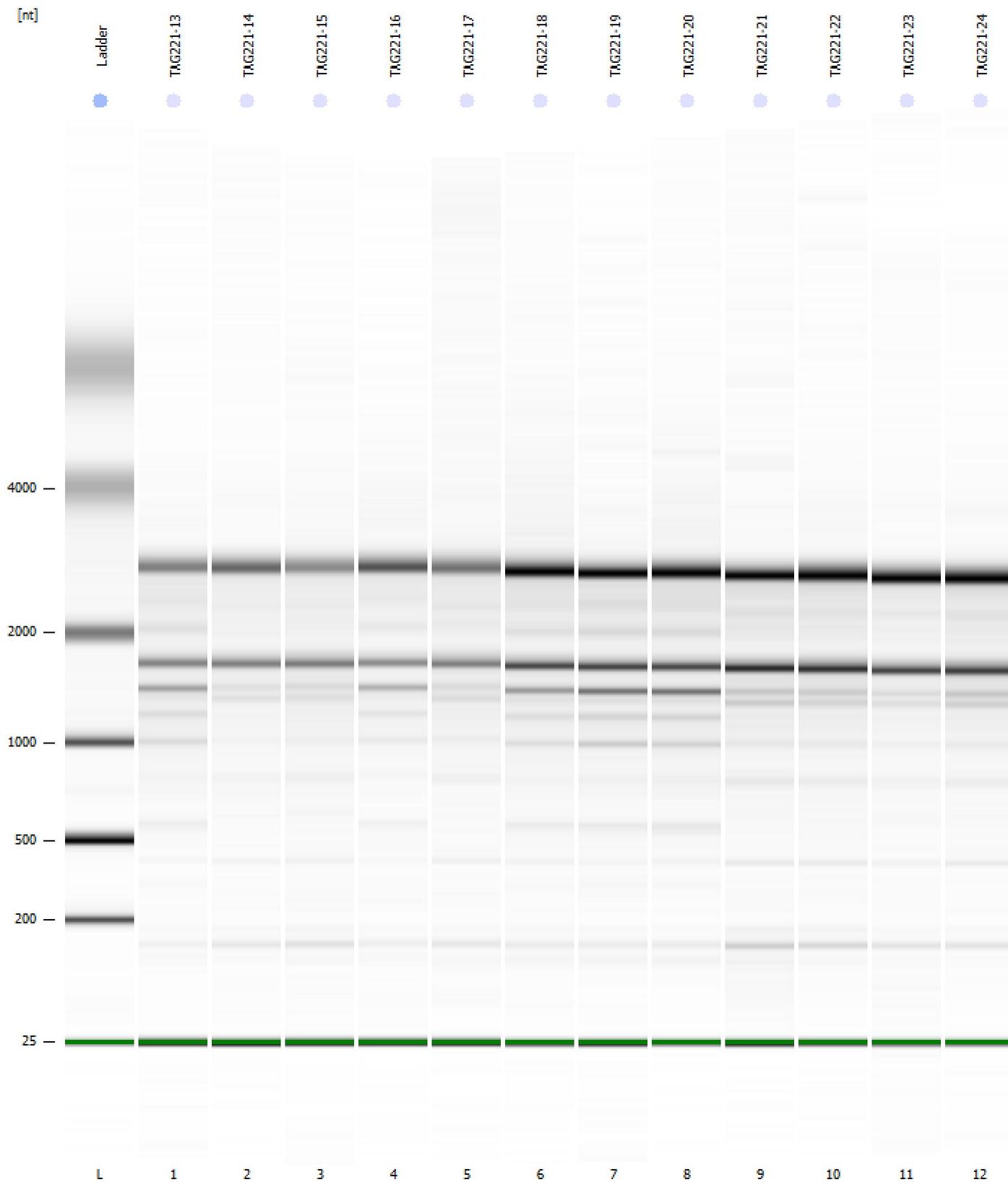
Fragment table for sample 12 : TAG221-24

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,506	1,845	15.0	15.6
25S	2,352	3,258	26.4	27.6

Assay Class: Plant RNA Nano
Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
Modified: 7/31/2023 11:29:50 AM

Gel Image

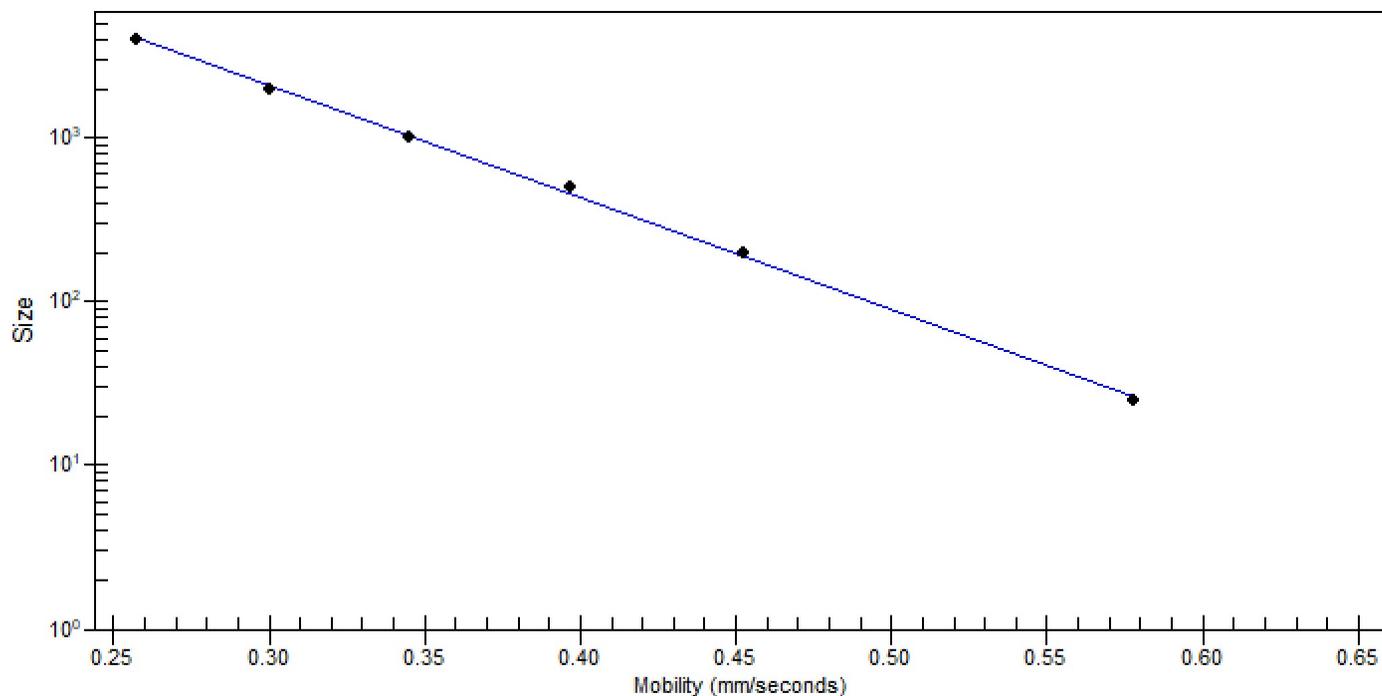


Assay Class: Plant RNA Nano
Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
Modified: 7/31/2023 11:29:50 AM

Curves

Standard Curve



Assay Class: Plant RNA Nano
 Data Path: C:\...1\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31_001.xad

Created: 7/31/2023 10:50:22 AM
 Modified: 7/31/2023 11:29:50 AM

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		7/31/2023 11:14:11 AM	(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\2023-07-31\Bioanalyzer1_Plant RNA Nano_DE34903152_2023-07-31 Product Number : G2938C		Instrument	Run		7/31/2023 10:50:29 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		7/31/2023 10:50:29 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		7/31/2023 10:50:29 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		7/31/2023 10:50:29 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		7/31/2023 10:50:29 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		7/31/2023 10:50:29 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB