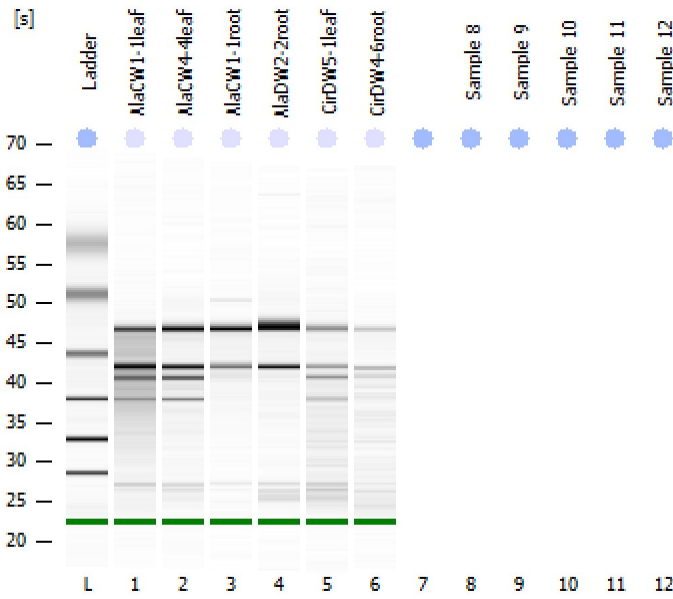


Assay Class: Plant RNA Nano
Data Path: Z:\XADS\2020-01-27\Bioanalyzer1_Plant RNA Nano_2020-01-27_002.xad

Created: 1/27/2020 4:34:05 PM
Modified: 1/27/2020 4:49:12 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

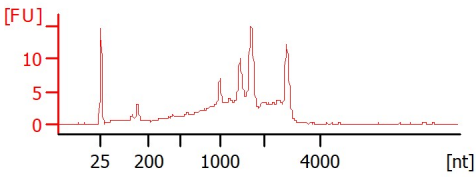
Assay Class: Plant RNA Nano
Version: 1.3
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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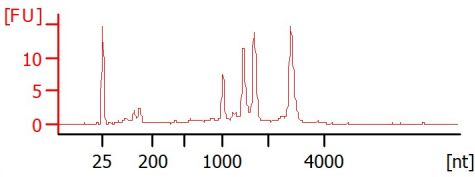
Chip Information:

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

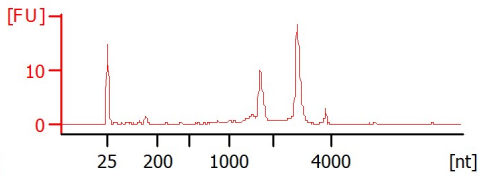
AlaCW1-1leaf
RIN: 6.30



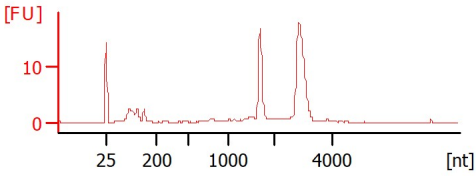
AlaCW4-4leaf
RIN: 7.30



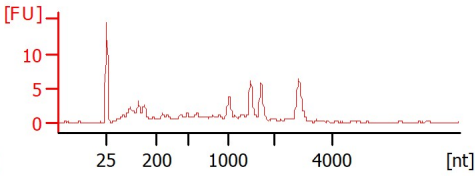
AlaCW1-1root
RIN: 8.80



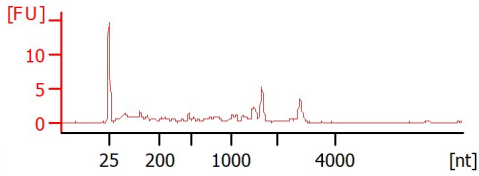
AlaDW2-2root
RIN: 9.40



CirDW5-1leaf
RIN: 7



CirDW4-6root
RIN: 7



Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-27\Bioanalyzer1_Plant RNA Nano_2020-01-27_002.xad

Created: 1/27/2020 4:34:05 PM
 Modified: 1/27/2020 4:49:12 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
AlaCW1-1leaf		✓	RIN: 6.30	
AlaCW4-4leaf		✓	RIN: 7.30	
AlaCW1-1root		✓	RIN: 8.80	
AlaDW2-2root		✓	RIN: 9.40	
CirDW5-1leaf		✓	RIN:7	
CirDW4-6root		✓	RIN:7	
Sample 8				
Sample 9				
Sample 10				
Sample 11				
Sample 12				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-27\Bioanalyzer1_Plant RNA Nano_2020-01-27_002.xad

Created: 1/27/2020 4:34:05 PM
 Modified: 1/27/2020 4:49:12 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

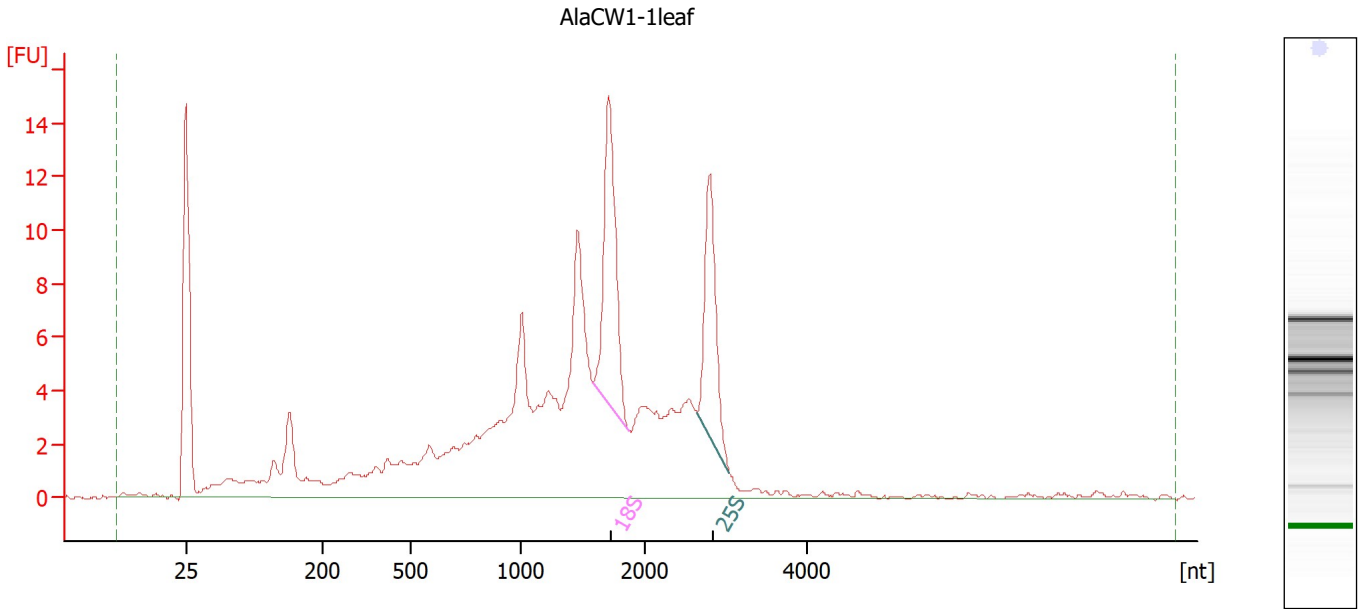
Ladder

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

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-27\Bioanalyzer1_Plant RNA Nano_2020-01-27_002.xad

Created: 1/27/2020 4:34:05 PM
 Modified: 1/27/2020 4:49:12 PM

Electropherogram Summary



Overall Results for sample 1 : AlaCW1-1leaf

RNA Area:	177.3	RNA Integrity Number (RIN):	6.3 (B.02.10)
RNA Concentration:	163 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.7	Result Flagging Label:	RIN: 6.30

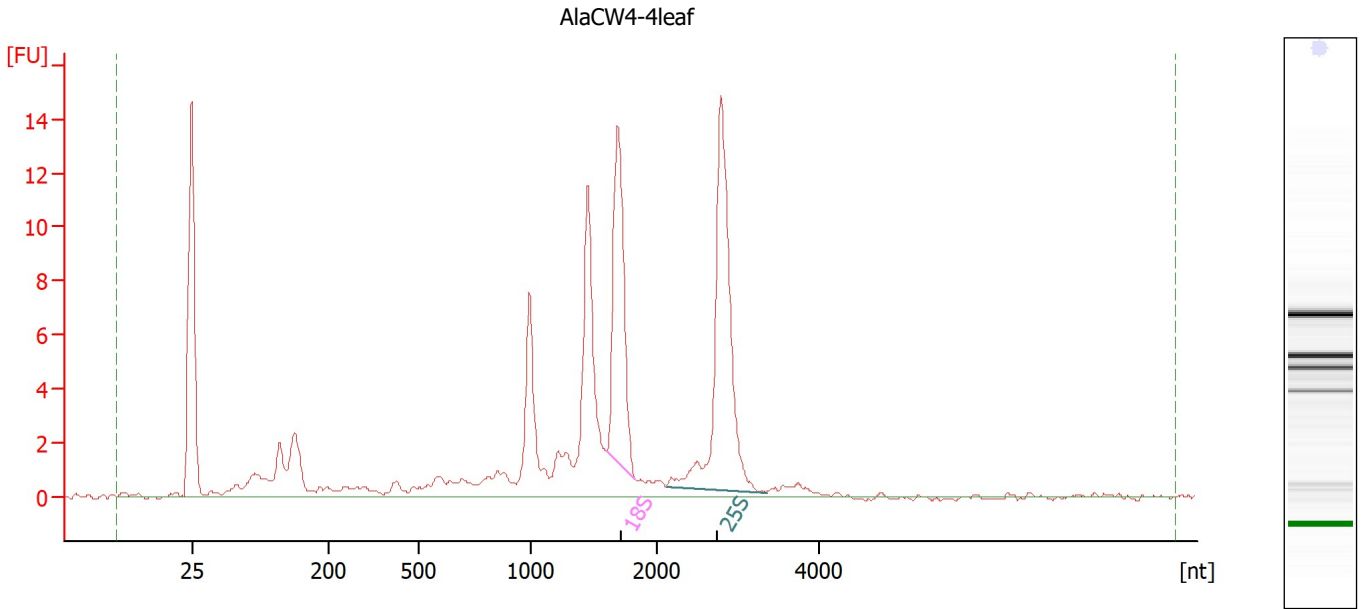
Fragment table for sample 1 : AlaCW1-1leaf

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,573	1,864	17.3	9.8
25S	2,642	3,042	12.2	6.9

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-27\Bioanalyzer1_Plant RNA Nano_2020-01-27_002.xad

Created: 1/27/2020 4:34:05 PM
 Modified: 1/27/2020 4:49:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : AlaCW4-4leaf

RNA Area:	104.8	RNA Integrity Number (RIN):	7.3 (B.02.10)
RNA Concentration:	96 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.5	Result Flagging Label:	RIN: 7.30

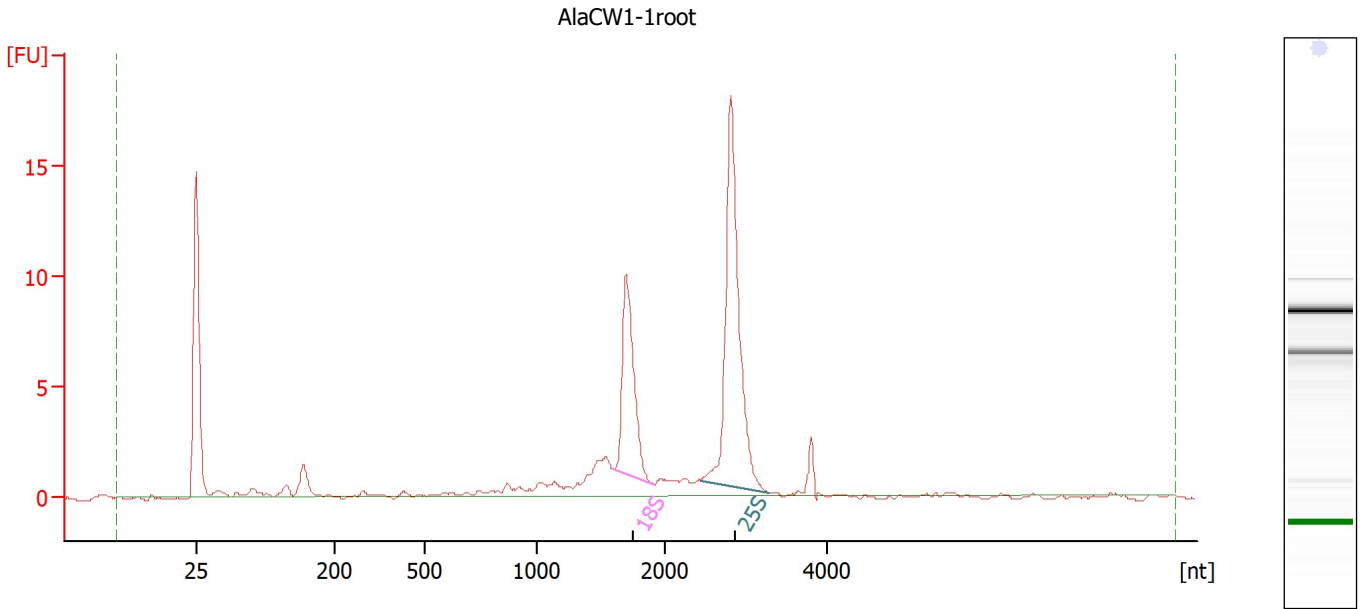
Fragment table for sample 2 : AlaCW4-4leaf

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,834	16.5	15.8
25S	2,124	3,364	24.7	23.5

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-27\Bioanalyzer1_Plant RNA Nano_2020-01-27_002.xad

Created: 1/27/2020 4:34:05 PM
 Modified: 1/27/2020 4:49:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : AlaCW1-1root

RNA Area:	68.3	RNA Integrity Number (RIN):	8.8 (B.02.10)
RNA Concentration:	63 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.0	Result Flagging Label:	RIN: 8.80

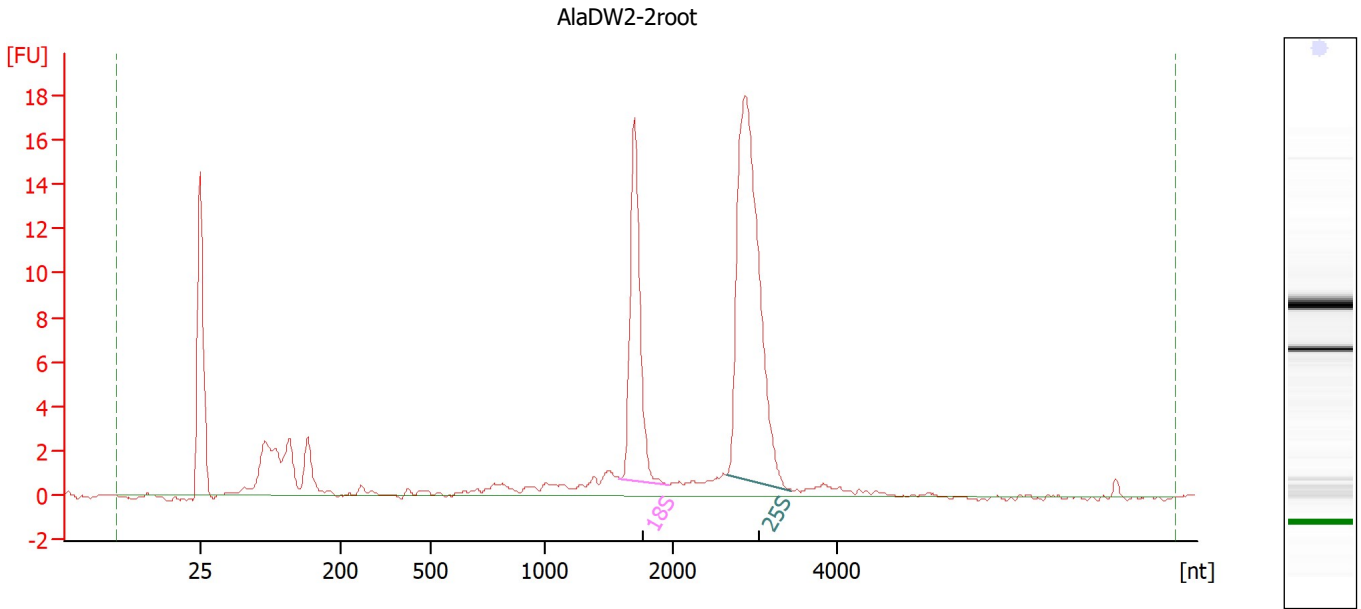
Fragment table for sample 3 : AlaCW1-1root

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,602	1,921	12.6	18.5
25S	2,440	3,290	25.9	38.0

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-27\Bioanalyzer1_Plant RNA Nano_2020-01-27_002.xad

Created: 1/27/2020 4:34:05 PM
 Modified: 1/27/2020 4:49:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : AlaDW2-2root

RNA Area:	106.4	RNA Integrity Number (RIN):	9.4 (B.02.10)
RNA Concentration:	98 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.1	Result Flagging Label:	RIN: 9.40

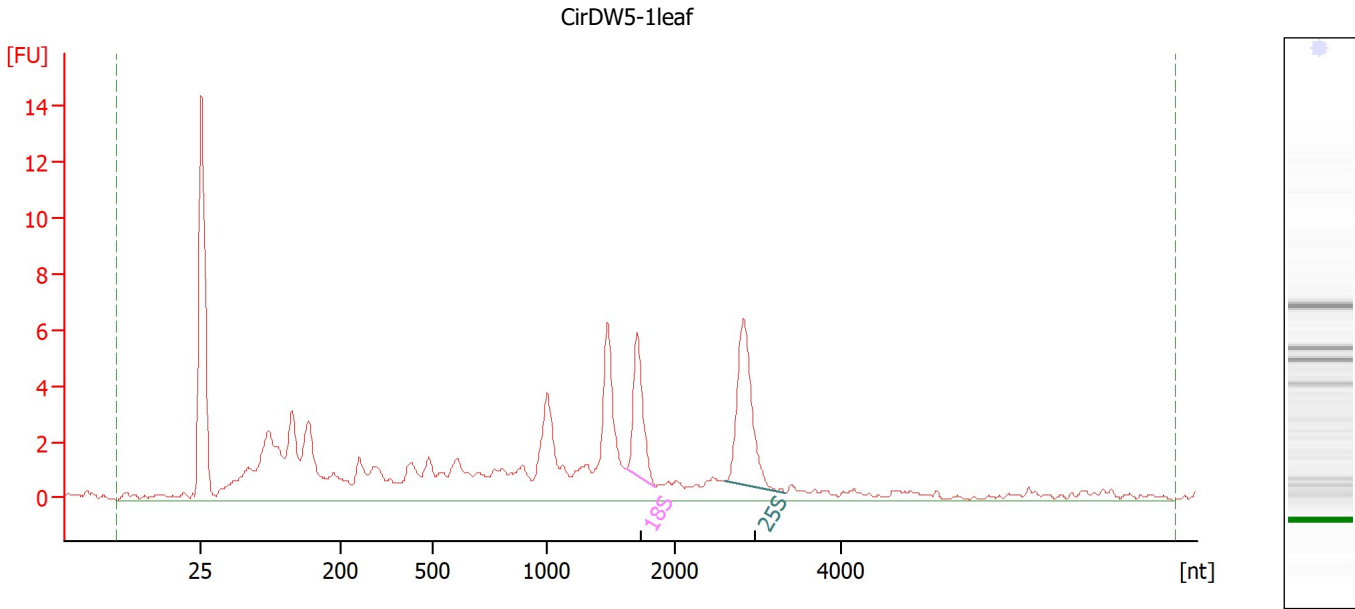
Fragment table for sample 4 : AlaDW2-2root

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,582	1,965	20.0	18.8
25S	2,646	3,437	41.3	38.8

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-27\Bioanalyzer1_Plant RNA Nano_2020-01-27_002.xad

Created: 1/27/2020 4:34:05 PM
 Modified: 1/27/2020 4:49:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : CirDW5-1leaf

RNA Area:	111.1	RNA Integrity Number (RIN):	7 (B.02.10)
RNA Concentration:	102 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.6	Result Flagging Label:	RIN:7

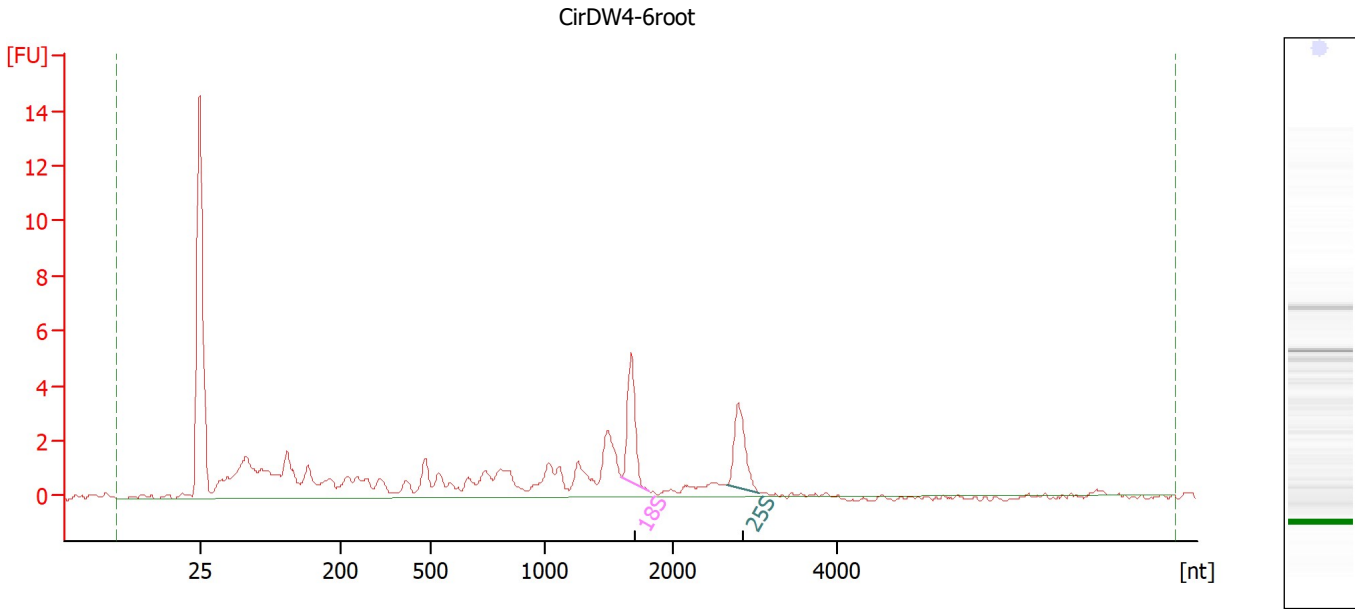
Fragment table for sample 5 : CirDW5-1leaf

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	1,849	6.1	5.5
25S	2,607	3,331	9.5	8.6

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-27\Bioanalyzer1_Plant RNA Nano_2020-01-27_002.xad

Created: 1/27/2020 4:34:05 PM
 Modified: 1/27/2020 4:49:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : CirDW4-6root

RNA Area:	55.3	RNA Integrity Number (RIN):	7 (B.02.10)
RNA Concentration:	51 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.9	Result Flagging Label:	RIN:7

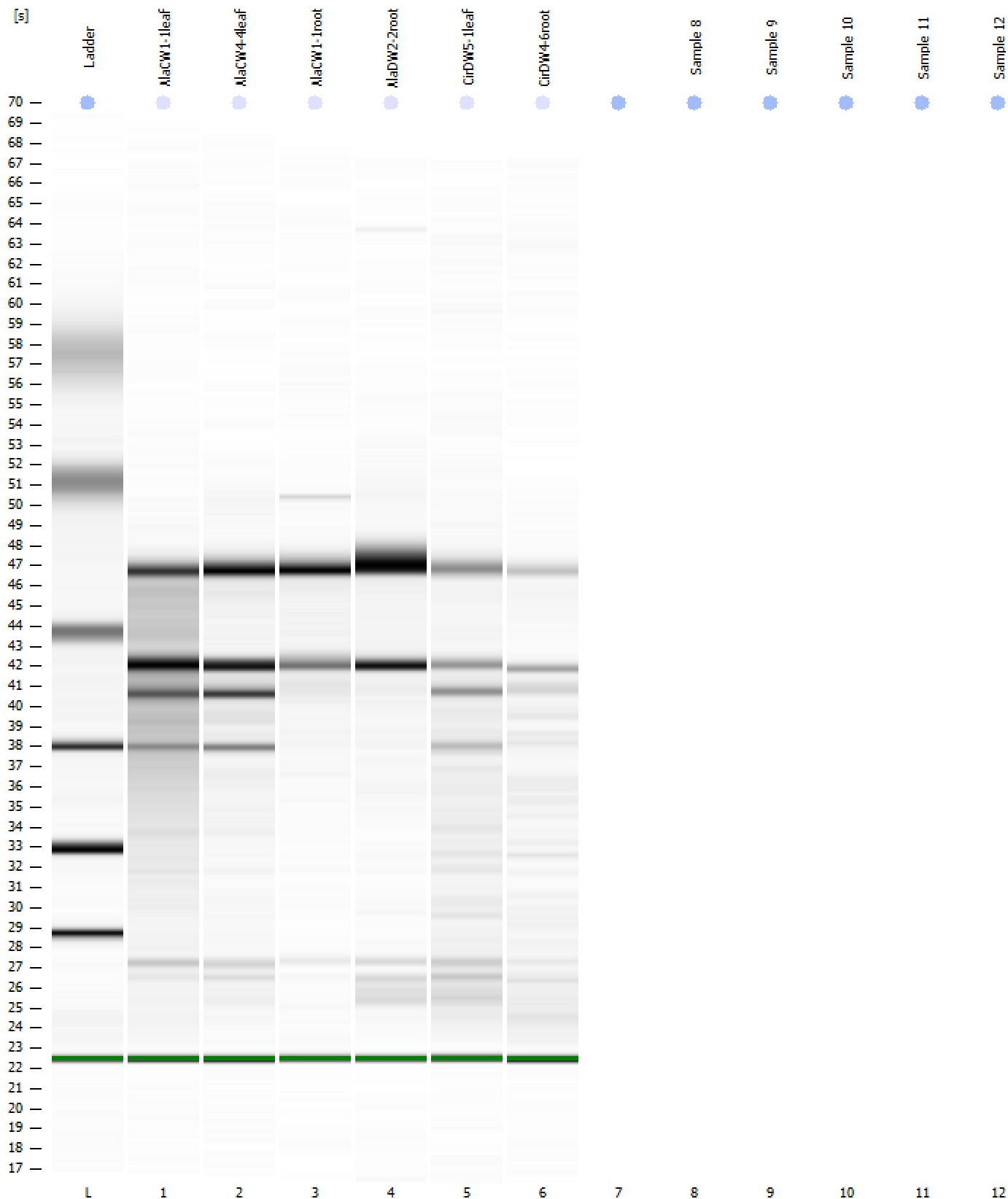
Fragment table for sample 6 : CirDW4-6root

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,599	1,815	4.3	7.8
25S	2,646	3,048	3.7	6.8

Assay Class: Plant RNA Nano
Data Path: Z:\XADs\2020-01-27\Bioanalyzer1_Plant RNA Nano_2020-01-27_002.xad

Created: 1/27/2020 4:34:05 PM
Modified: 1/27/2020 4:49:12 PM

Gel Image

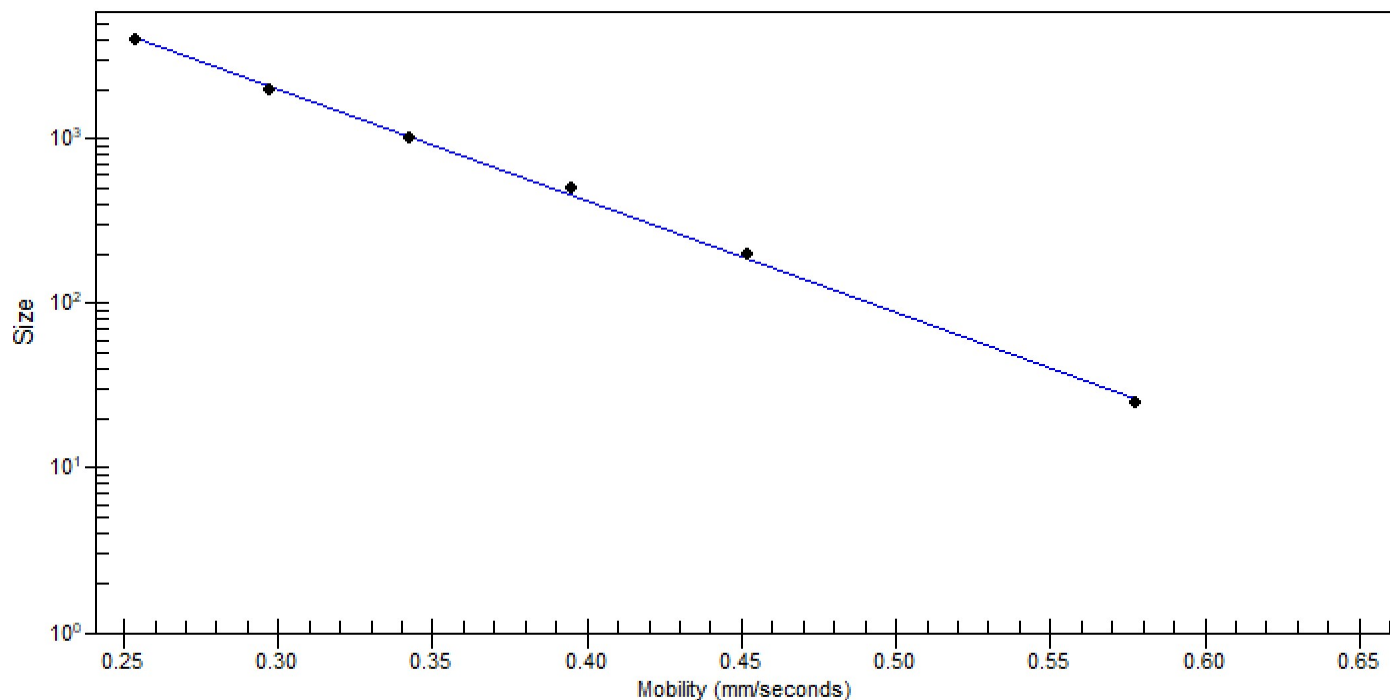


Assay Class: Plant RNA Nano
Data Path: Z:\XADs\2020-01-27\Bioanalyzer1_Plant RNA Nano_2020-01-27_002.xad

Created: 1/27/2020 4:34:05 PM
Modified: 1/27/2020 4:49:12 PM

Curves

Standard Curve



Assay Class: Plant RNA Nano
Data Path: Z:\XADs\2020-01-27\Bioanalyzer1_Plant RNA Nano_2020-01-27_002.xad

Created: 1/27/2020 4:34:05 PM
Modified: 1/27/2020 4:49:12 PM

Invalid Samples

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-27\Bioanalyzer1_Plant RNA Nano_2020-01-27_002.xad

Created: 1/27/2020 4:34:05 PM
 Modified: 1/27/2020 4:49:12 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		1/27/2020 4:49:10 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-01-27\Bioanalyze r1_Plant RNA Nano_2020-01-27_002.xad)		Instrument	Run		1/27/2020 4:34:05 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/27/2020 4:34:05 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/27/2020 4:34:05 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/27/2020 4:34:05 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/27/2020 4:34:05 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/27/2020 4:34:05 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/27/2020 4:34:05 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB