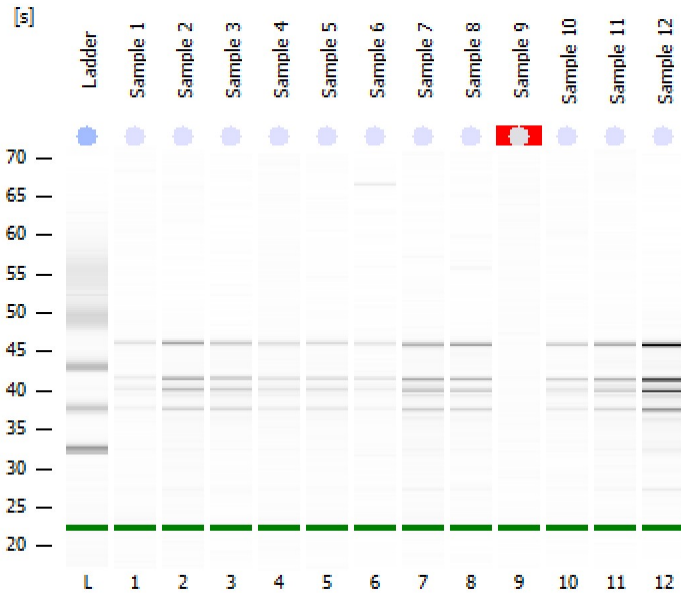


Assay Class: Plant RNA Nano
Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
Modified: 1/10/2020 2:22:28 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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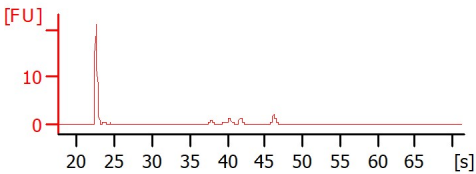
Chip Information:

Chip Lot #:

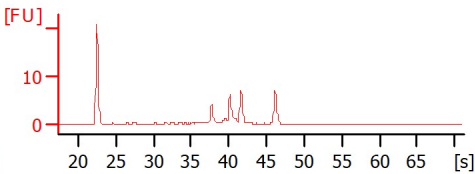
Reagent Kit Lot #:

Chip Comments:

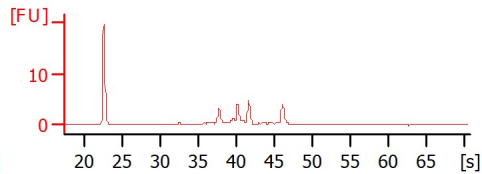
Sample 1
RIN: 7.50



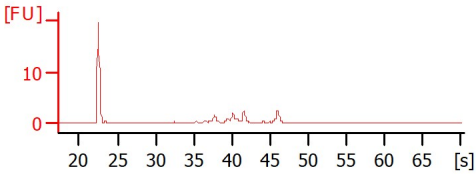
Sample 2
RIN: 7.50



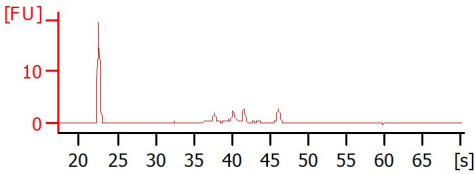
Sample 3
RIN: 7.70



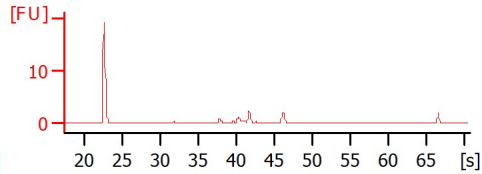
Sample 4
RIN: 7.90



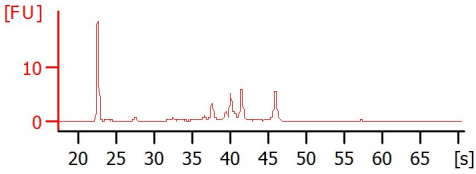
Sample 5
RIN: 7.90



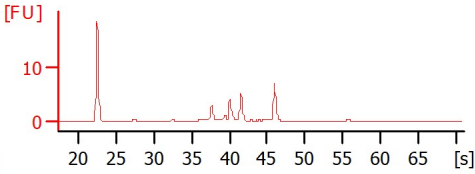
Sample 6
RIN: 7.90



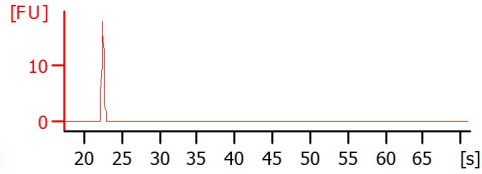
Sample 7
RIN: 7.50



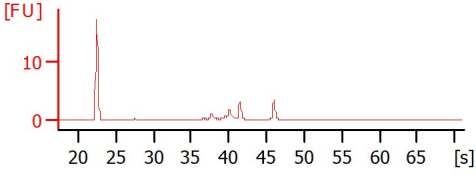
Sample 8
RIN: 7.50



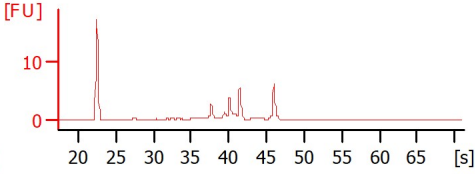
Sample 9
RIN N/A



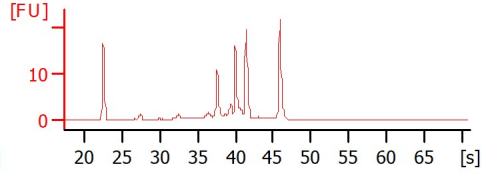
Sample 10
RIN: 7.90



Sample 11
RIN: 7.50



Sample 12
RIN: 6.70



Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 7.50	
Sample 2		✓	RIN: 7.50	
Sample 3		✓	RIN: 7.70	
Sample 4		✓	RIN: 7.90	
Sample 5		✓	RIN: 7.90	
Sample 6		✓	RIN: 7.90	
Sample 7		✓	RIN: 7.50	
Sample 8		✓	RIN: 7.50	
Sample 9		✓	RIN N/A	
Sample 10		✓	RIN: 7.90	
Sample 11		✓	RIN: 7.50	
Sample 12		✓	RIN: 6.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 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

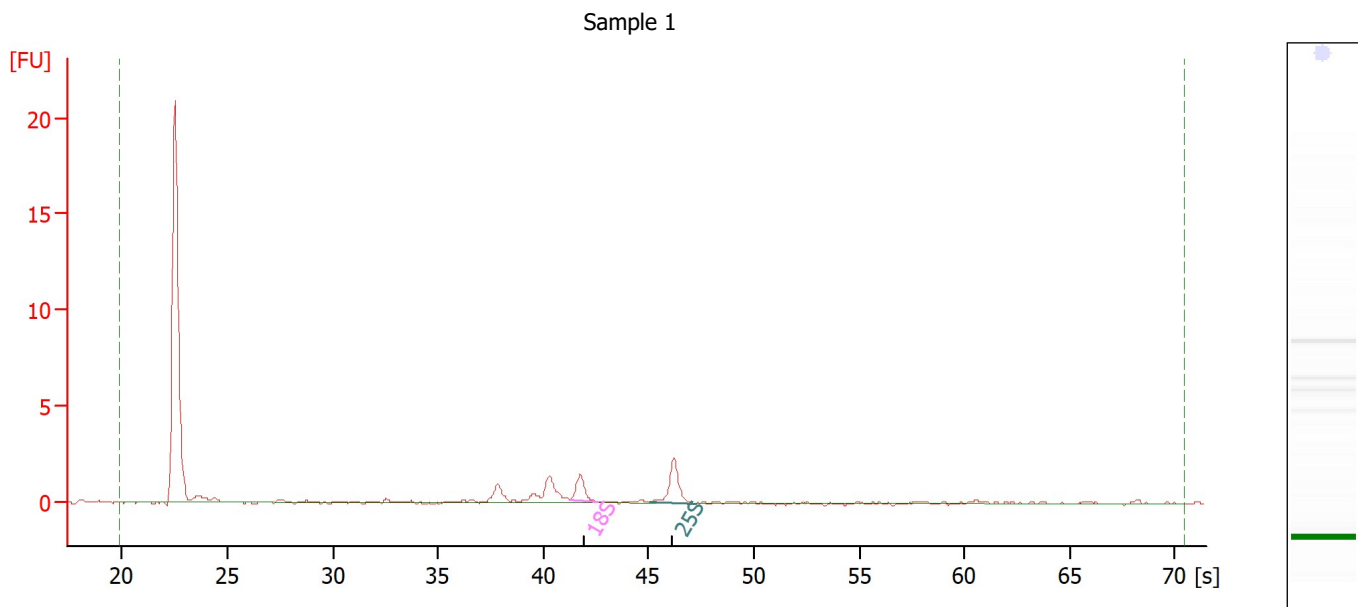
Ladder

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

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 PM

Electropherogram Summary



Overall Results for sample 1 : Sample 1

RNA Area:	13.5	RNA Integrity Number (RIN):	7.5 (B.02.10)
RNA Concentration:	22 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN: 7.50

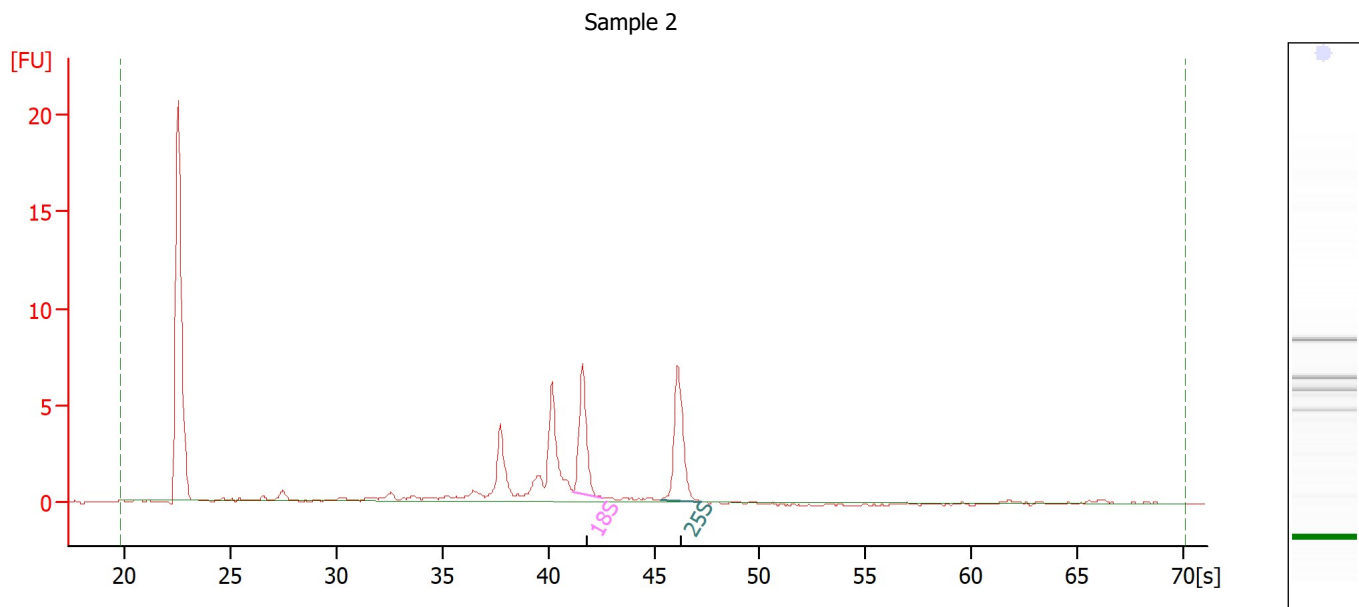
Fragment table for sample 1 : Sample 1

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.28	42.60	1.5	11.0
25S	45.05	47.24	2.6	19.4

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	38.5	RNA Integrity Number (RIN):	7.5 (B.02.10)
RNA Concentration:	62 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.2	Result Flagging Label:	RIN: 7.50

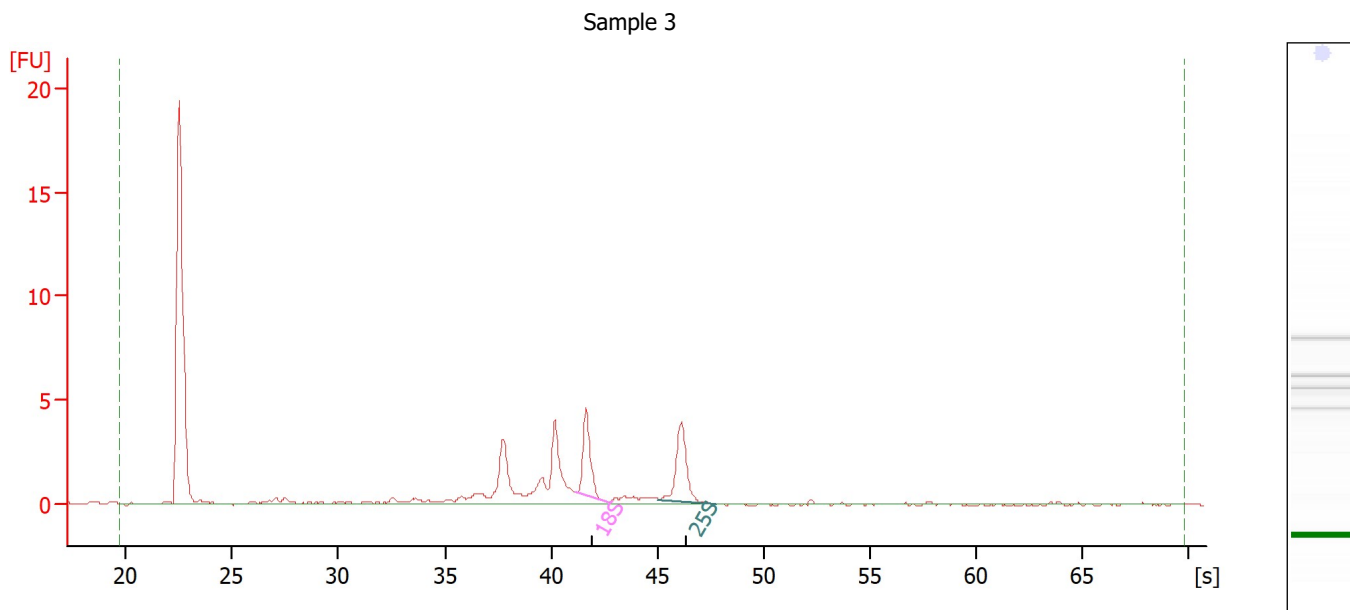
Fragment table for sample 2 : Sample 2

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.19	42.61	6.3	16.4
25S	45.30	47.23	7.4	19.1

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	31.7	RNA Integrity Number (RIN):	7.7 (B.02.10)
RNA Concentration:	51 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.1	Result Flagging Label:	RIN: 7.70

Fragment table for sample 3 : Sample 3

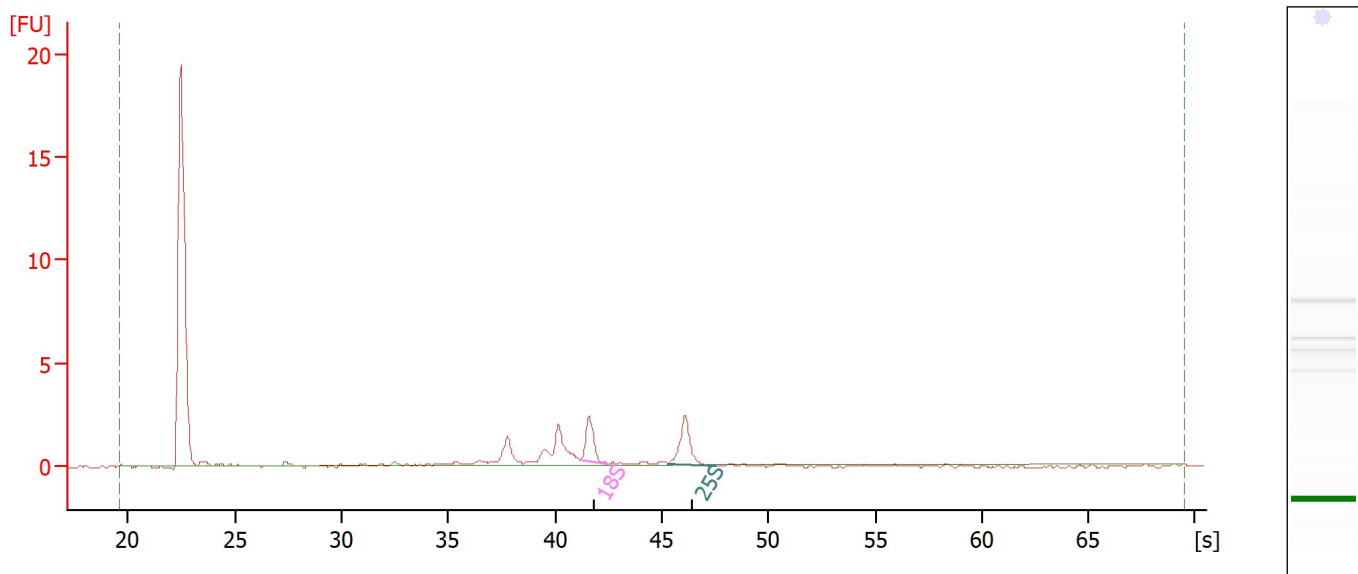
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.16	42.62	4.1	12.9
25S	45.05	47.78	4.6	14.5

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 PM

Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 4 : Sample 4

RNA Area:	14.2	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	23 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.3	Result Flagging Label:	RIN: 7.90

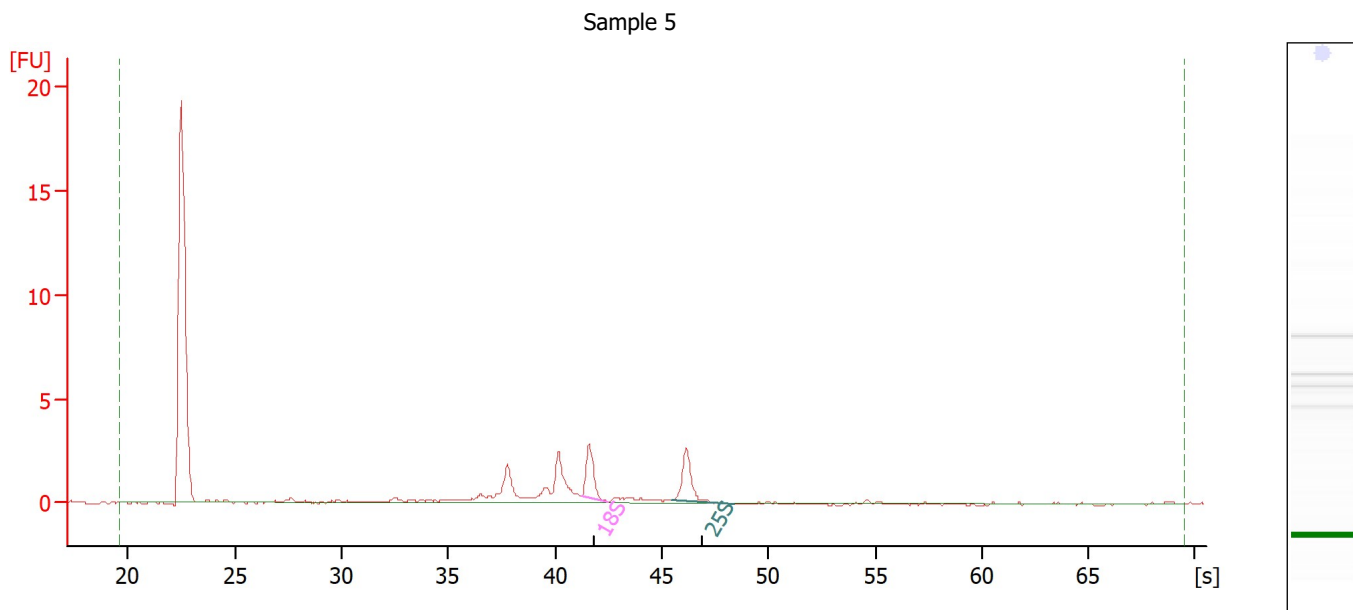
Fragment table for sample 4 : Sample 4

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.12	42.48	2.1	14.9
25S	45.25	47.57	2.8	19.6

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	19.2	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	31 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.2	Result Flagging Label:	RIN: 7.90

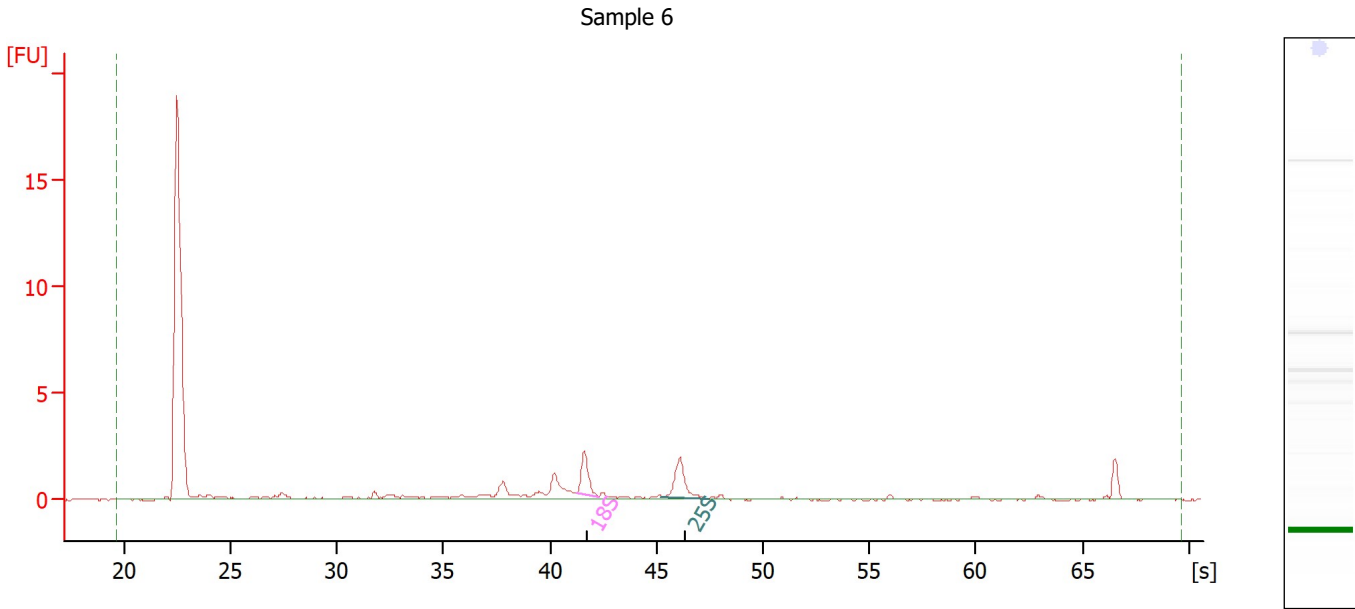
Fragment table for sample 5 : Sample 5

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.22	42.43	2.4	12.6
25S	45.45	48.37	2.8	14.8

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	16.7	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	27 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.2	Result Flagging Label:	RIN: 7.90

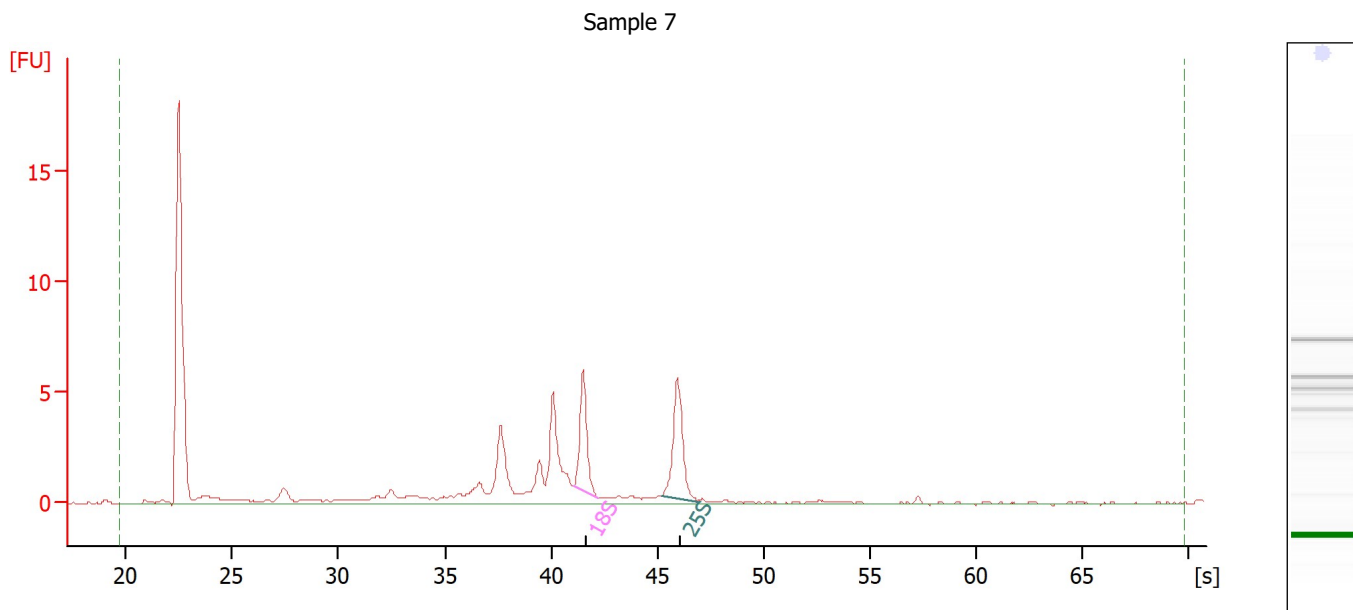
Fragment table for sample 6 : Sample 6

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.22	42.33	1.9	11.1
25S	45.25	47.42	2.2	13.1

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	43.6	RNA Integrity Number (RIN):	7.5 (B.02.10)
RNA Concentration:	70 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.2	Result Flagging Label:	RIN: 7.50

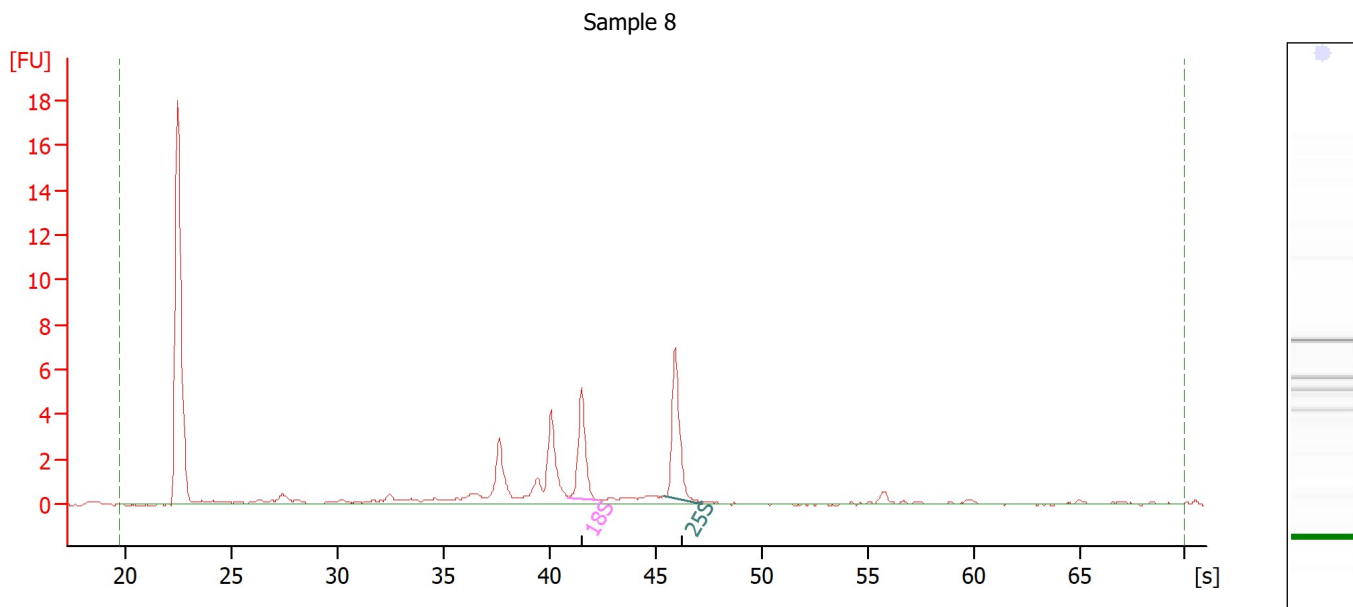
Fragment table for sample 7 : Sample 7

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.06	42.17	5.1	11.7
25S	45.20	46.87	6.1	14.0

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	31.0	RNA Integrity Number (RIN):	7.5 (B.02.10)
RNA Concentration:	50 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.3	Result Flagging Label:	RIN: 7.50

Fragment table for sample 8 : Sample 8

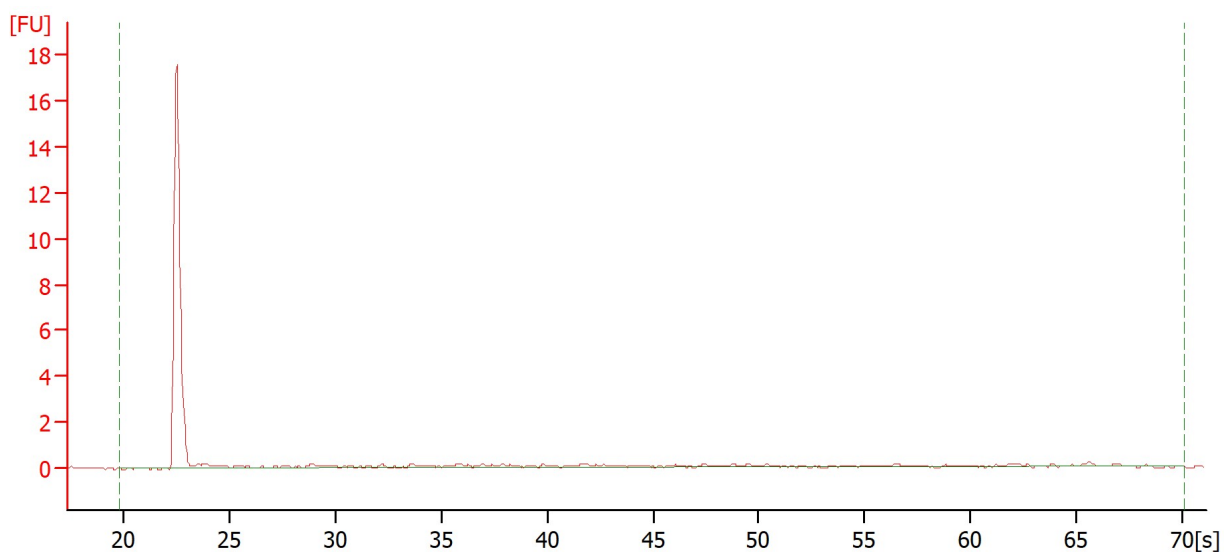
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.90	42.26	4.6	14.9
25S	45.46	47.18	6.1	19.6

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 PM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

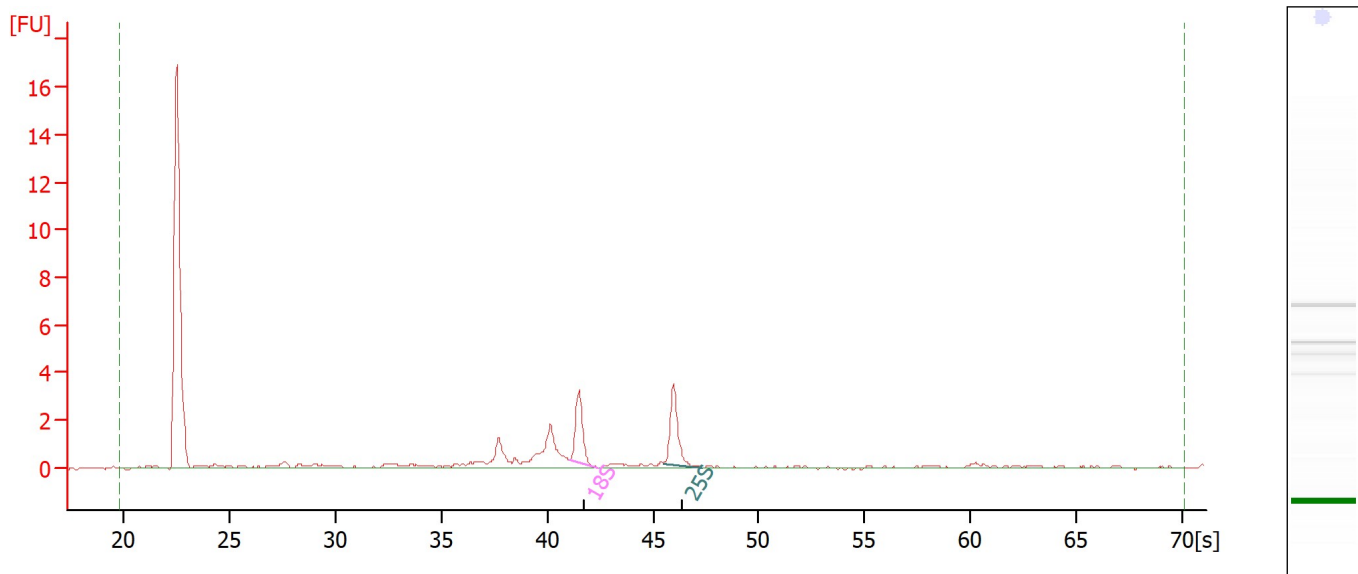
RNA Area:	5.6	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	9 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 PM

Electropherogram Summary Continued ...

Sample 10



Overall Results for sample 10 : Sample 10

RNA Area:	17.4	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	28 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.1	Result Flagging Label:	RIN: 7.90

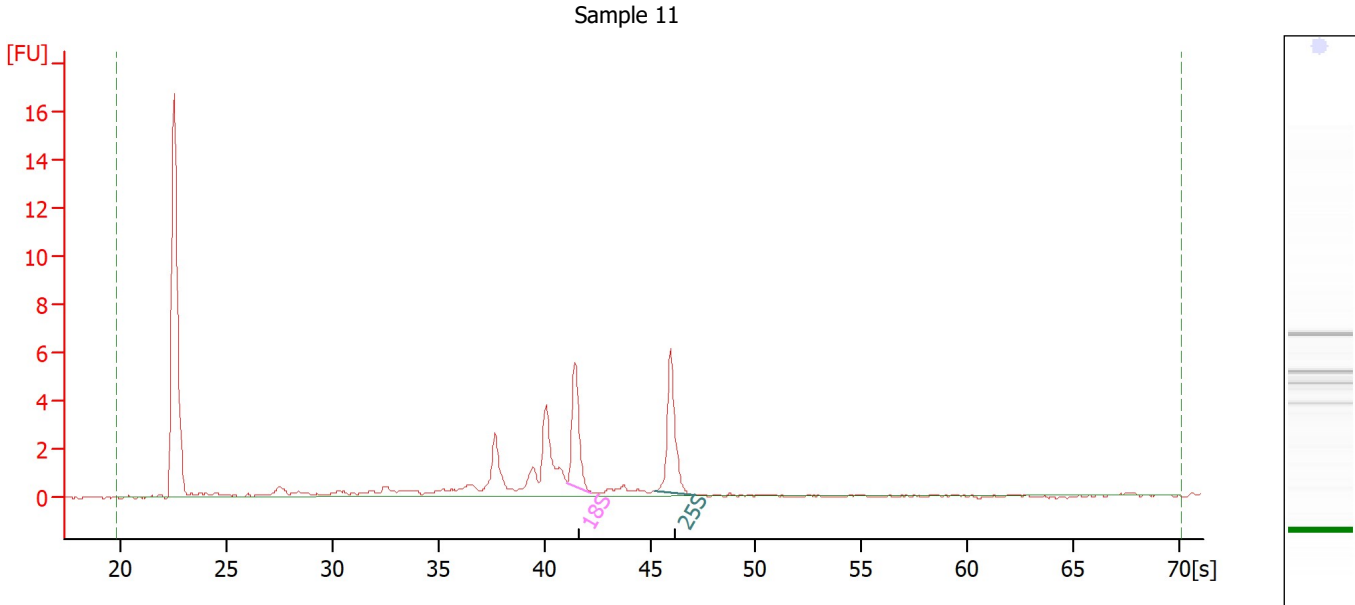
Fragment table for sample 10 : Sample 10

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.04	42.41	2.8	16.0
25S	45.51	47.34	3.2	18.3

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area:	34.0	RNA Integrity Number (RIN):	7.5 (B.02.10)
RNA Concentration:	54 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.2	Result Flagging Label:	RIN: 7.50

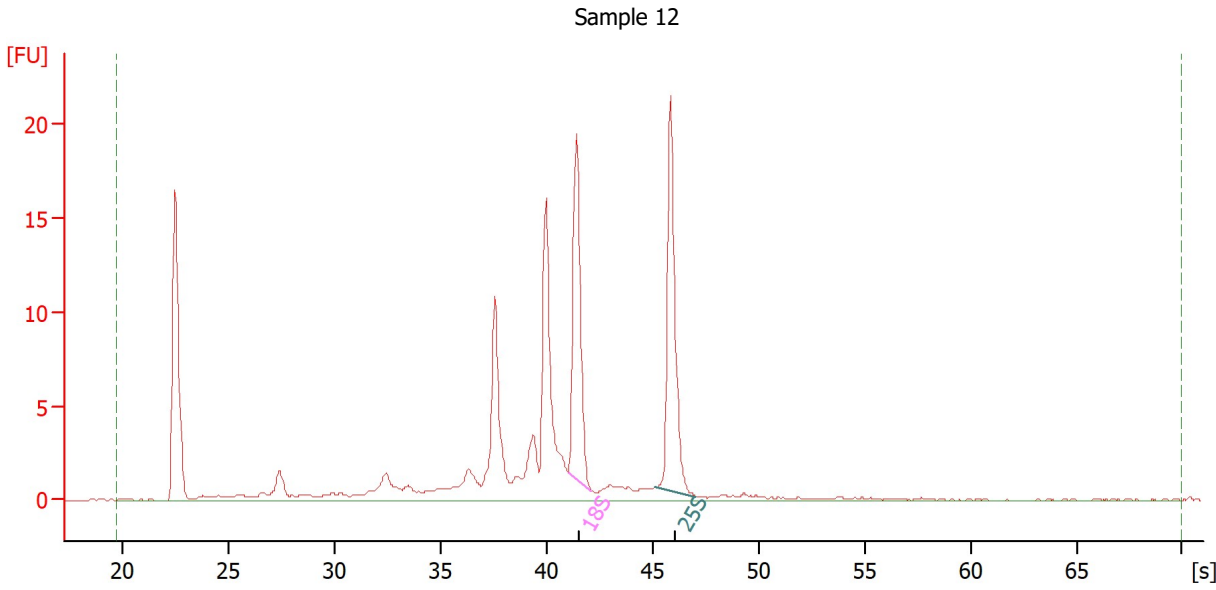
Fragment table for sample 11 : Sample 11

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.09	42.21	4.5	13.3
25S	45.25	47.13	5.6	16.6

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Sample 12

RNA Area:	106.4	RNA Integrity Number (RIN):	6.7 (B.02.10)
RNA Concentration:	170 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.1	Result Flagging Label:	RIN: 6.70

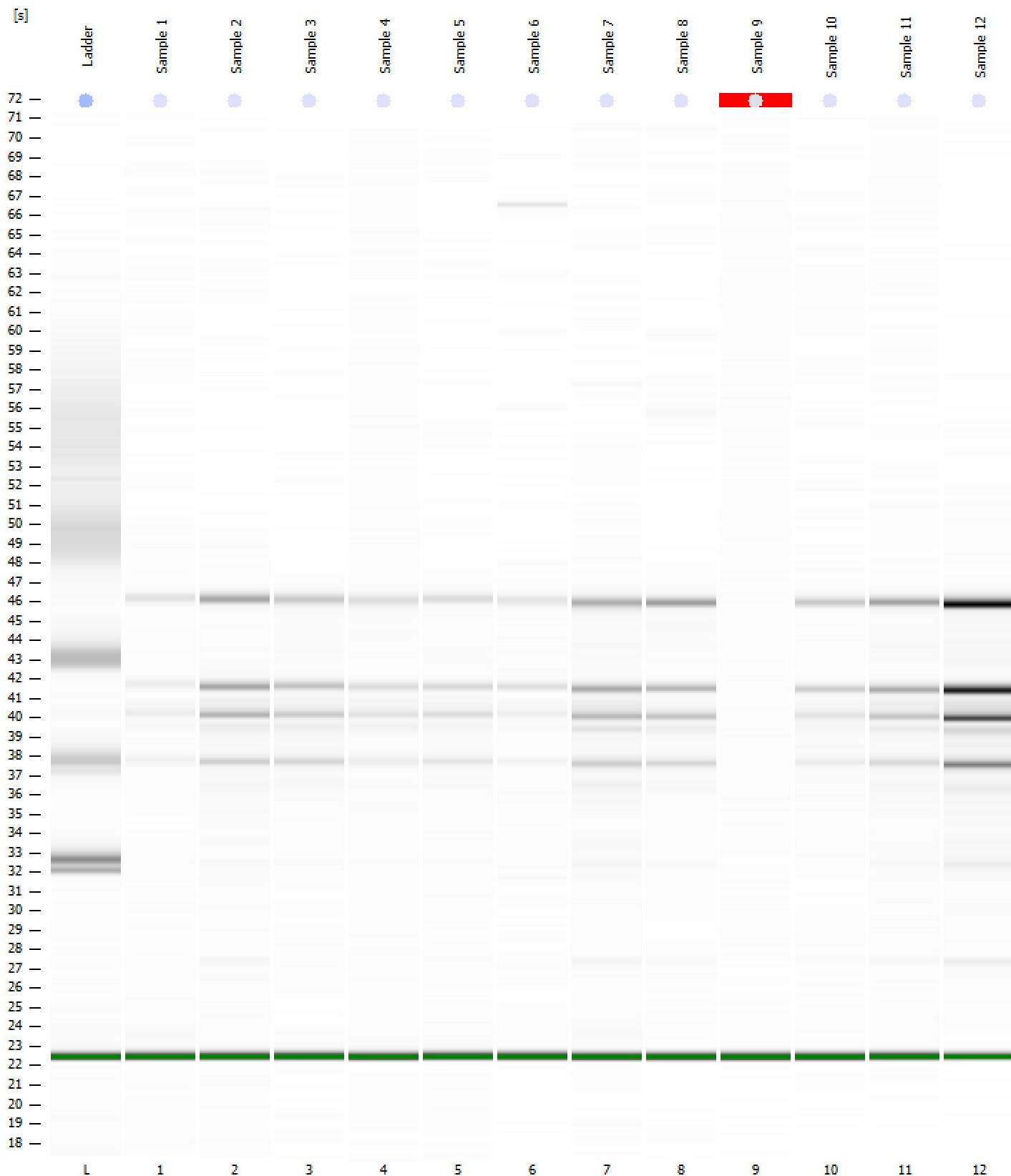
Fragment table for sample 12 : Sample 12

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.05	42.11	17.1	16.1
25S	45.15	47.03	19.3	18.1

Assay Class: Plant RNA Nano
Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
Modified: 1/10/2020 2:22:28 PM

Gel Image

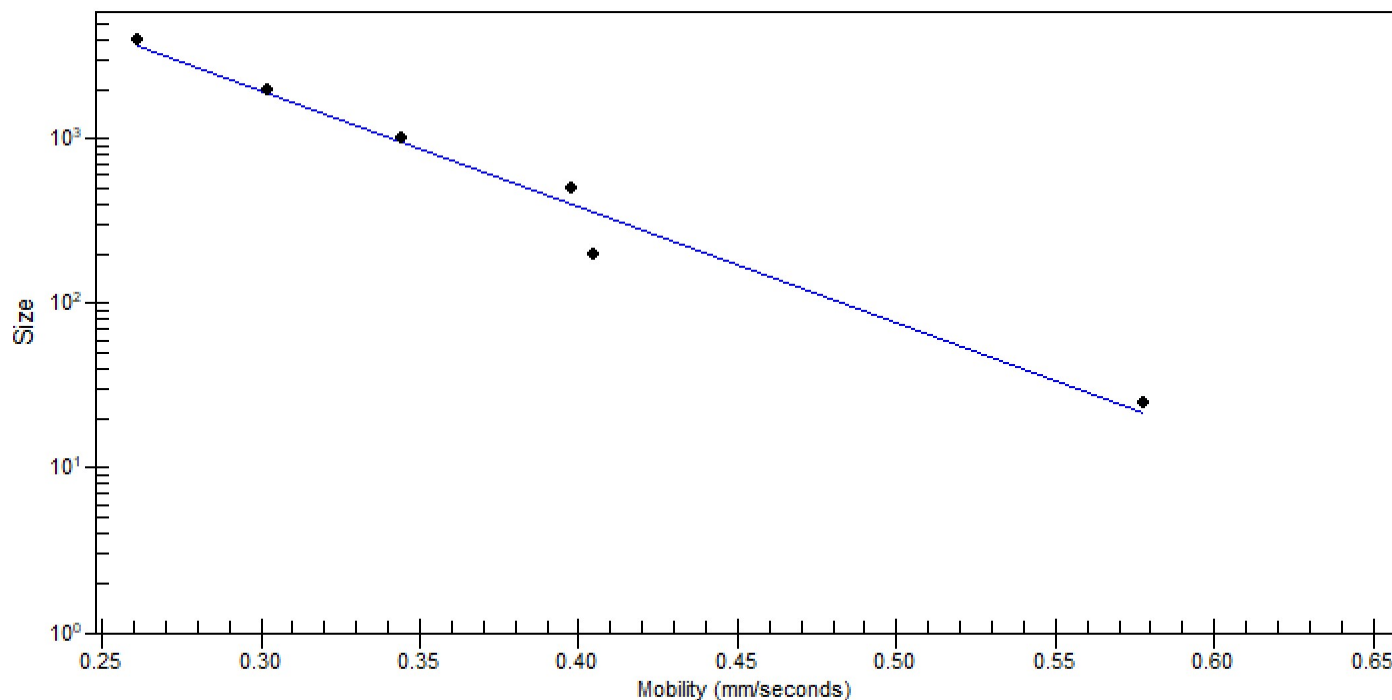


Assay Class: Plant RNA Nano
Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
Modified: 1/10/2020 2:22:28 PM

Curves

Standard Curve



Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2020-01-10\Bioanalyzer1_Plant RNA Nano_2020-01-10_002.xad

Created: 1/10/2020 1:59:24 PM
 Modified: 1/10/2020 2:22:28 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		1/10/2020 2:22:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-01-10\Bioanalyze r1_Plant RNA Nano_2020-01-10_002.xad)		Instrument	Run		1/10/2020 1:59:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/10/2020 1:59:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/10/2020 1:59:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/10/2020 1:59:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/10/2020 1:59:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/10/2020 1:59:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/10/2020 1:59:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB