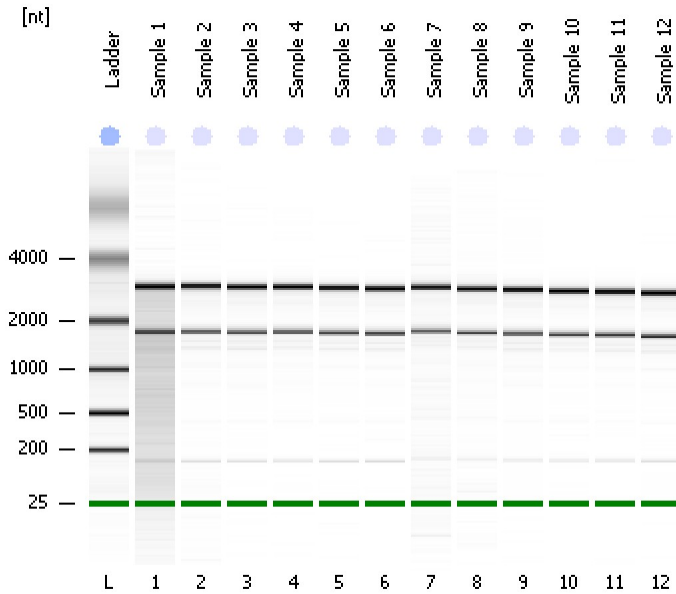


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

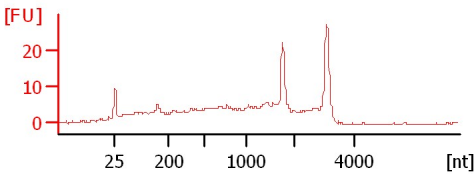
Assay Class: Plant RNA Nano
Version: 1.3
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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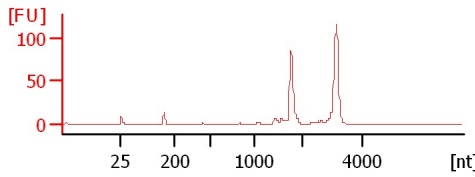
Chip Information:

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

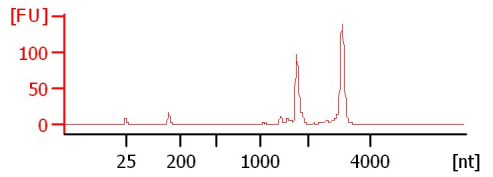
Sample 1
RIN: 6.60



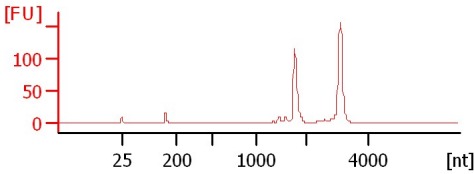
Sample 2
RIN: 9.90



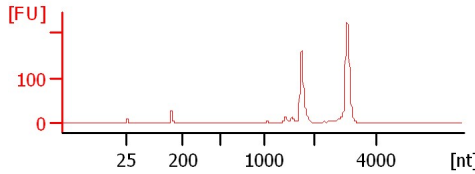
Sample 3
RIN: 9.60



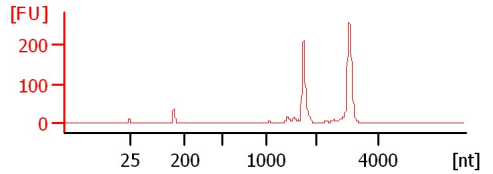
Sample 4
RIN: 9.70



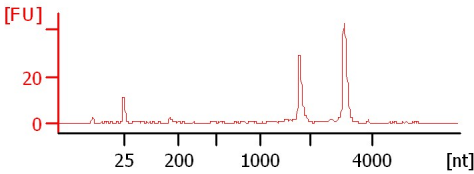
Sample 5
RIN: 9.90



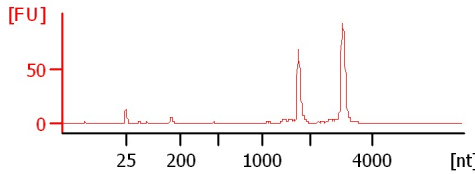
Sample 6
RIN: 7



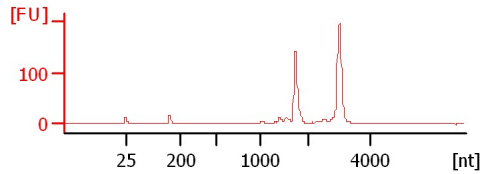
Sample 7
RIN: 9.40



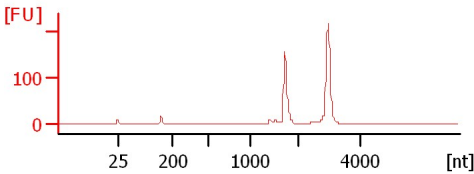
Sample 8
RIN: 7.20



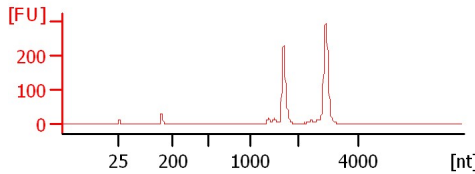
Sample 9
RIN: 9.70



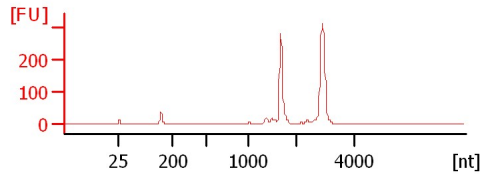
Sample 10
RIN: 10



Sample 11
RIN: 9.80



Sample 12
RIN: 9.70



Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
 Modified: 10/25/2017 12:55:01 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 6.60	
Sample 2		✓	RIN: 9.90	
Sample 3		✓	RIN: 9.60	
Sample 4		✓	RIN: 9.70	
Sample 5		✓	RIN: 9.90	
Sample 6		✓	RIN:7	
Sample 7		✓	RIN: 9.40	
Sample 8		✓	RIN: 7.20	
Sample 9		✓	RIN: 9.70	
Sample 10		✓	RIN:10	
Sample 11		✓	RIN: 9.80	
Sample 12		✓	RIN: 9.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ μ l] : 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

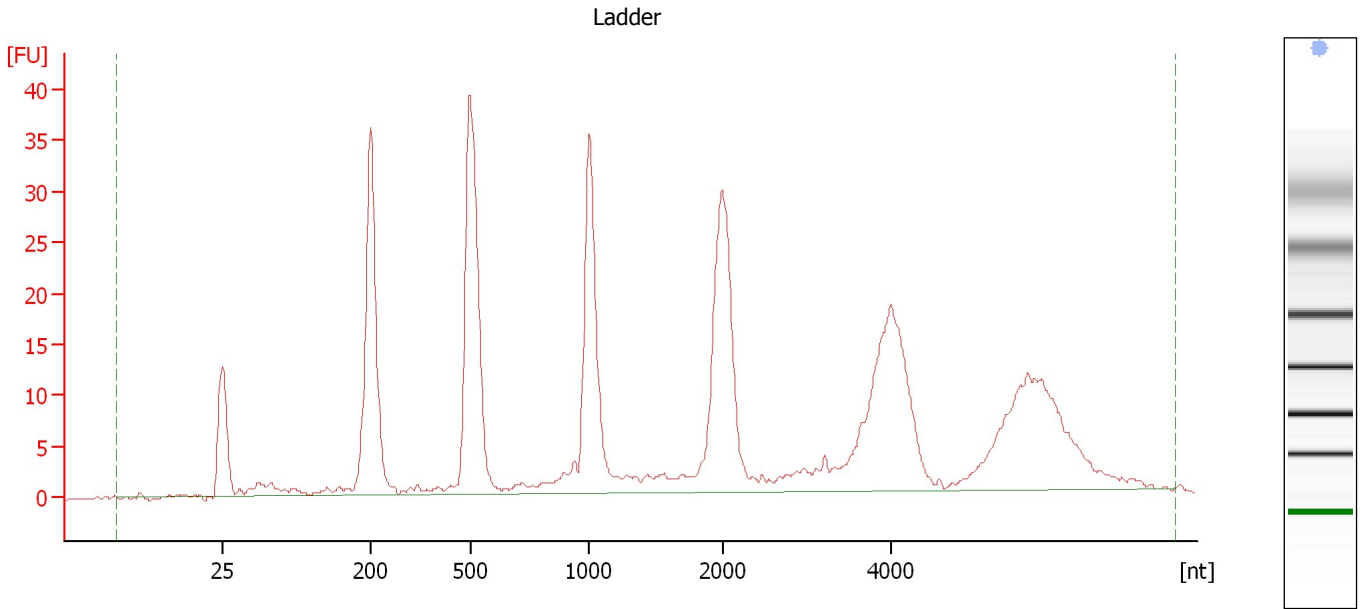
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 PM

Electropherogram Summary



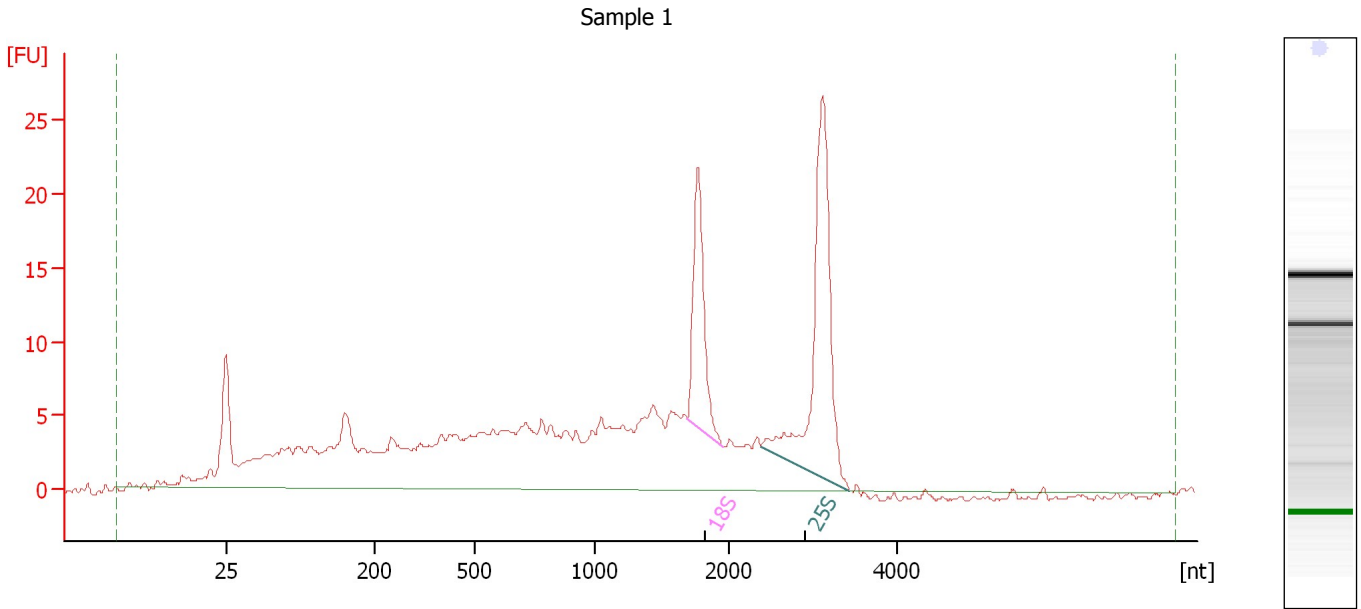
Overall Results for Ladder

RNA Area:	447.1	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
 Modified: 10/25/2017 12:55:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	307.9	RNA Integrity Number (RIN):	6.6 (B.02.08)
RNA Concentration:	103 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.0	Result Flagging Label:	RIN: 6.60

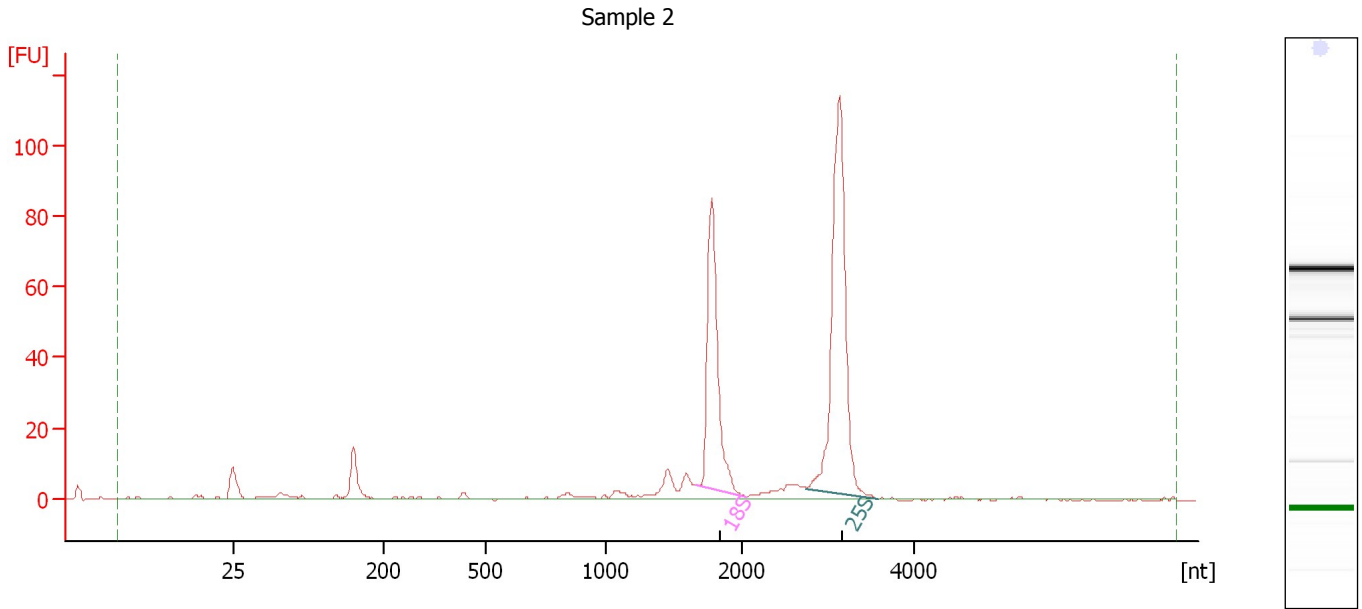
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,690	1,953	21.5	7.0
25S	2,368	3,432	43.7	14.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	336.7	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	113 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.6	Result Flagging Label:	RIN: 9.90

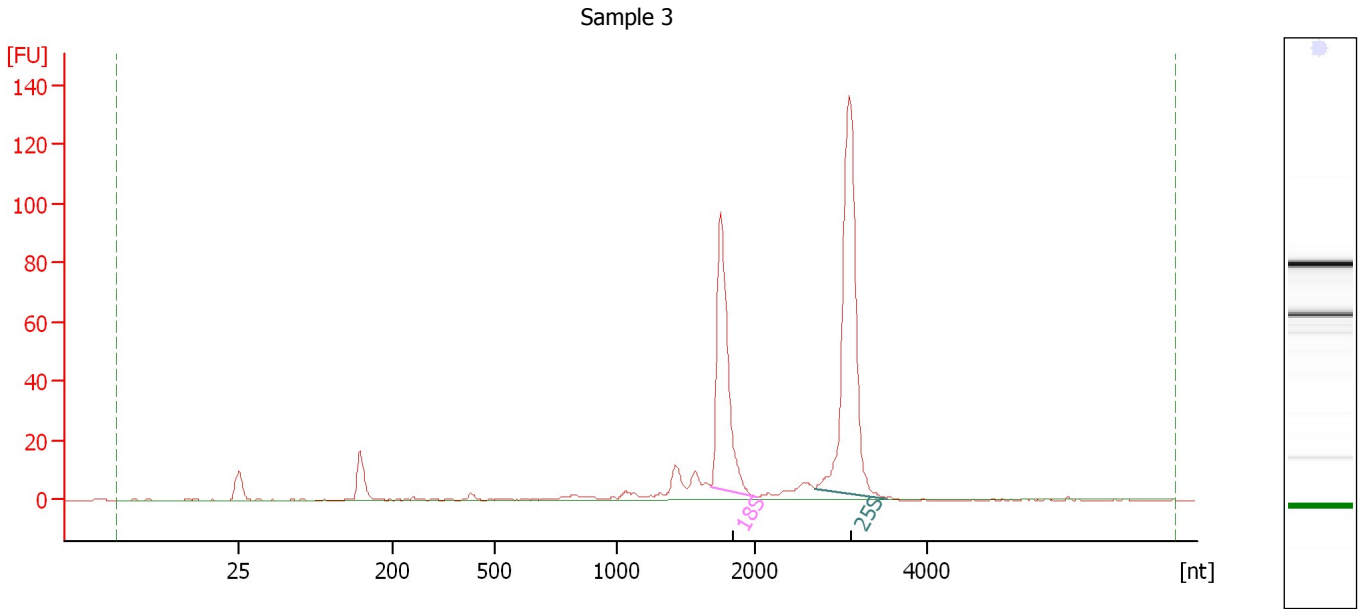
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	2,042	94.8	28.2
25S	2,742	3,593	151.9	45.1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	411.7	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	138 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.5	Result Flagging Label:	RIN: 9.60

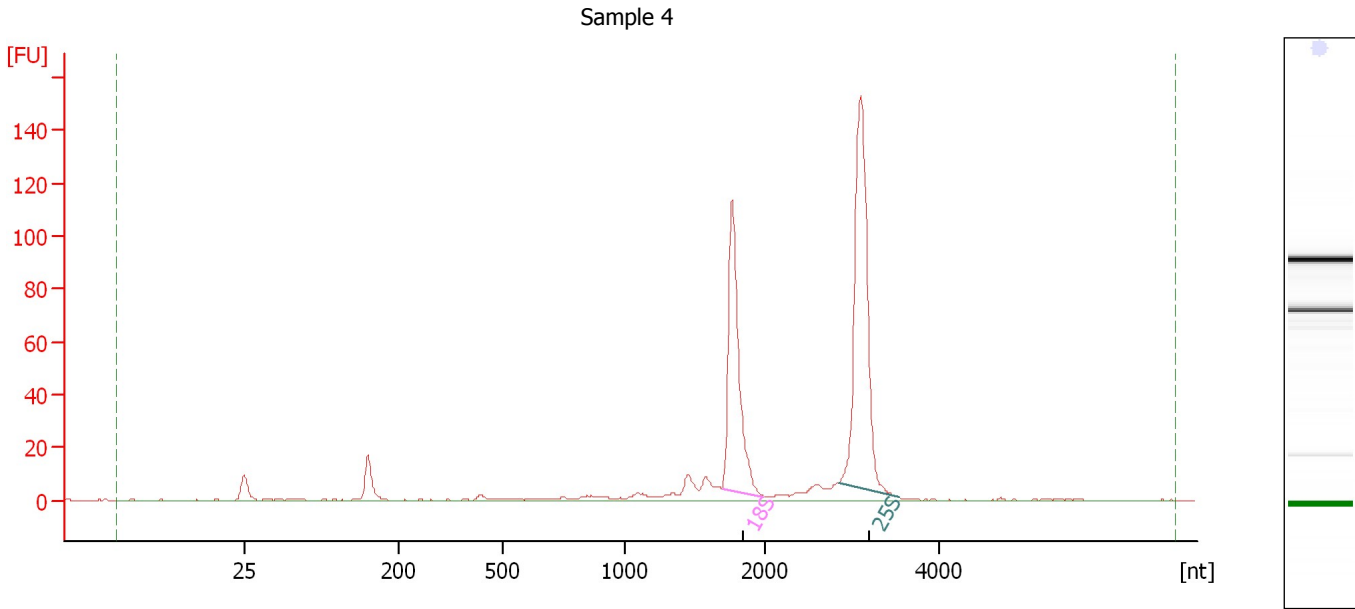
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,686	2,020	113.7	27.6
25S	2,700	3,528	175.6	42.7

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area:	446.6	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	150 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 9.70

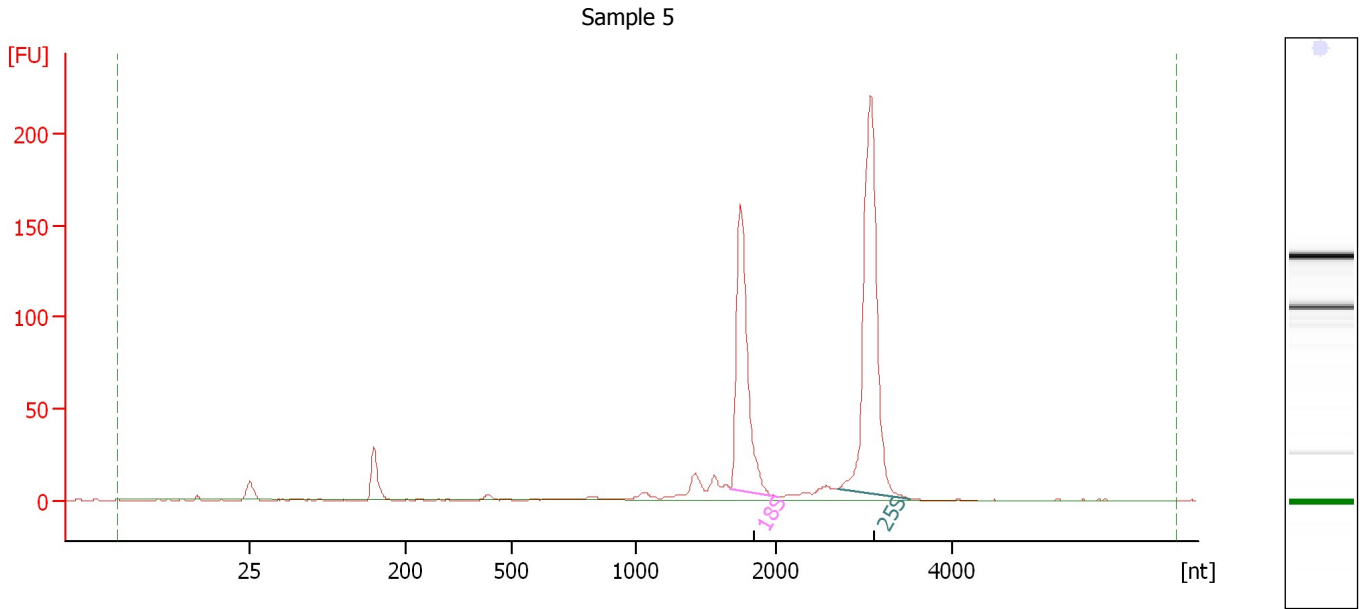
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,699	1,991	130.2	29.2
25S	2,854	3,528	186.7	41.8

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	635.8	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	213 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.5	Result Flagging Label:	RIN: 9.90

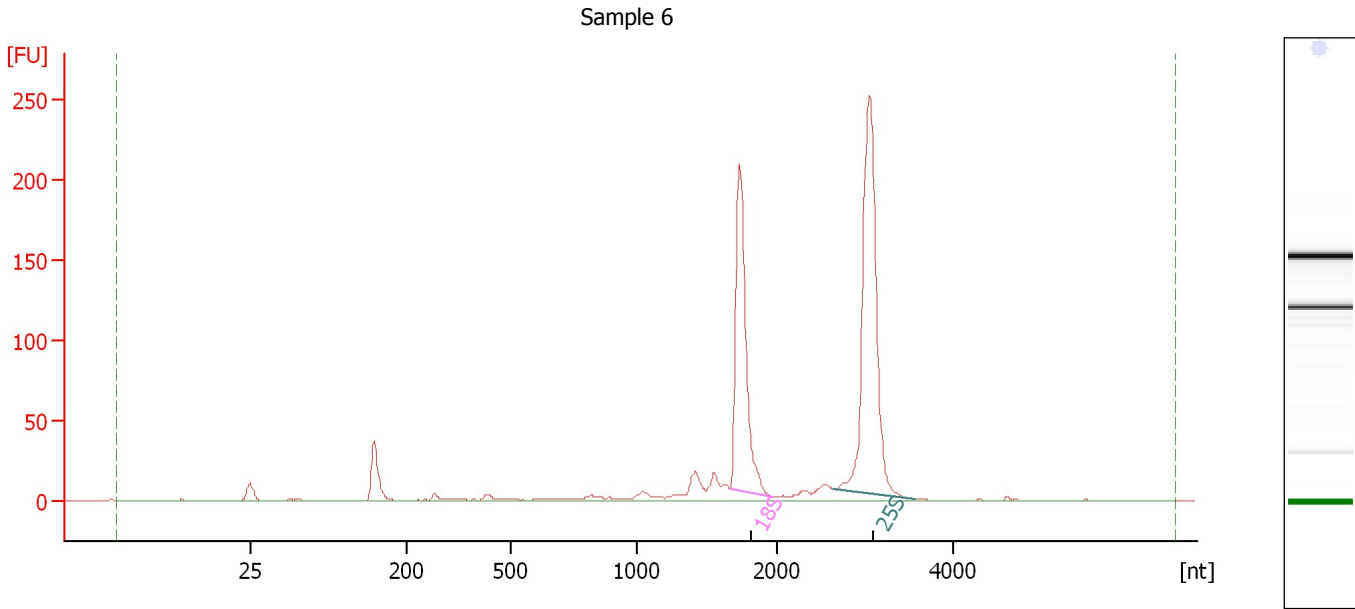
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,673	2,025	186.8	29.4
25S	2,691	3,527	282.4	44.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area: 815.0 RNA Integrity Number (RIN): 7 (B.02.08)
RNA Concentration: 273 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.5 Result Flagging Label: RIN:7

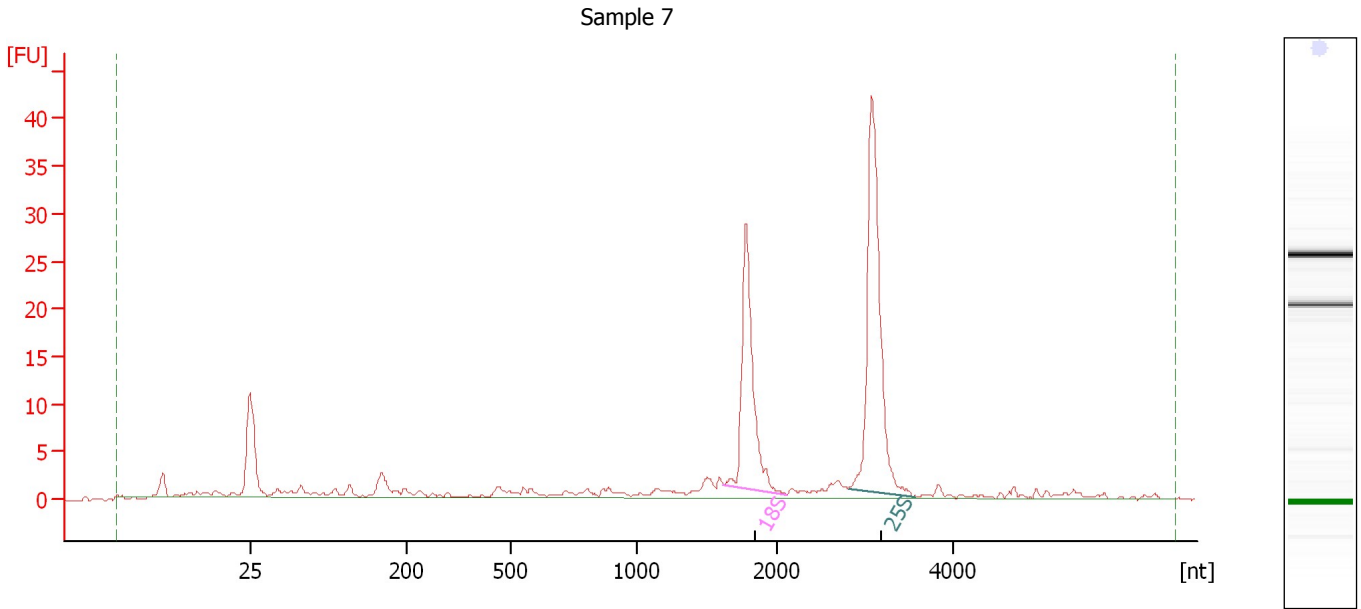
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,666	1,970	224.2	27.5
25S	2,630	3,549	332.5	40.8

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	138.5	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	46 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.5	Result Flagging Label:	RIN: 9.40

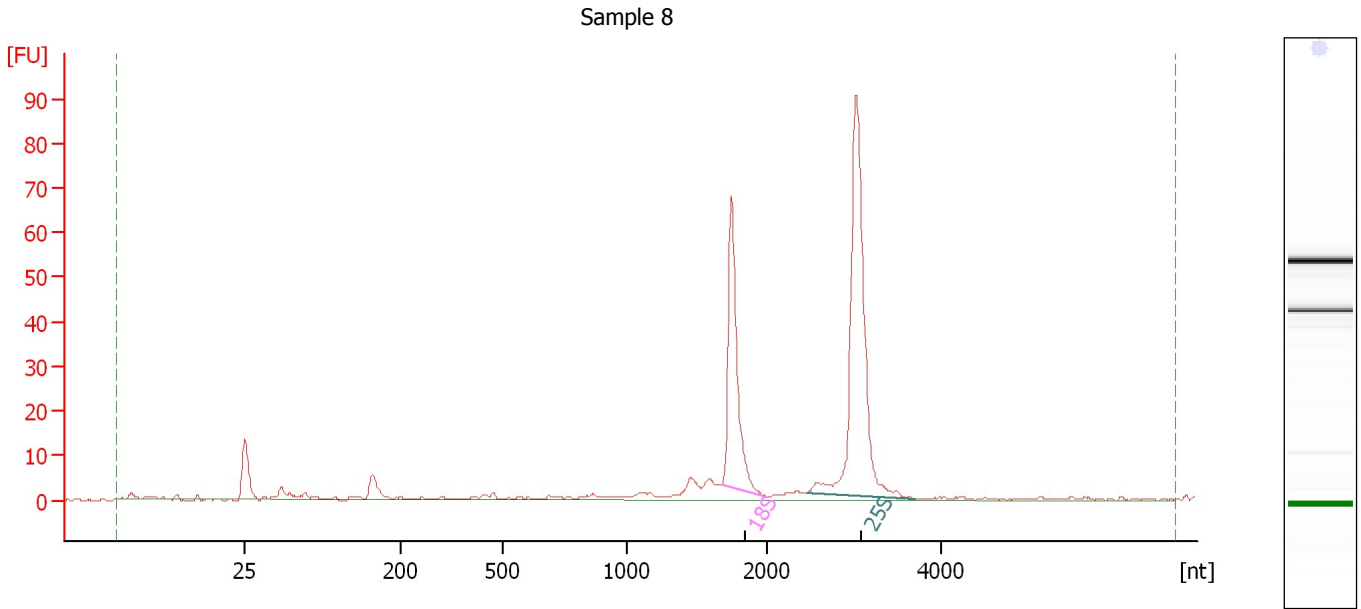
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,621	2,110	33.4	24.1
25S	2,811	3,561	51.6	37.3

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	264.4	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	89 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN: 7.20

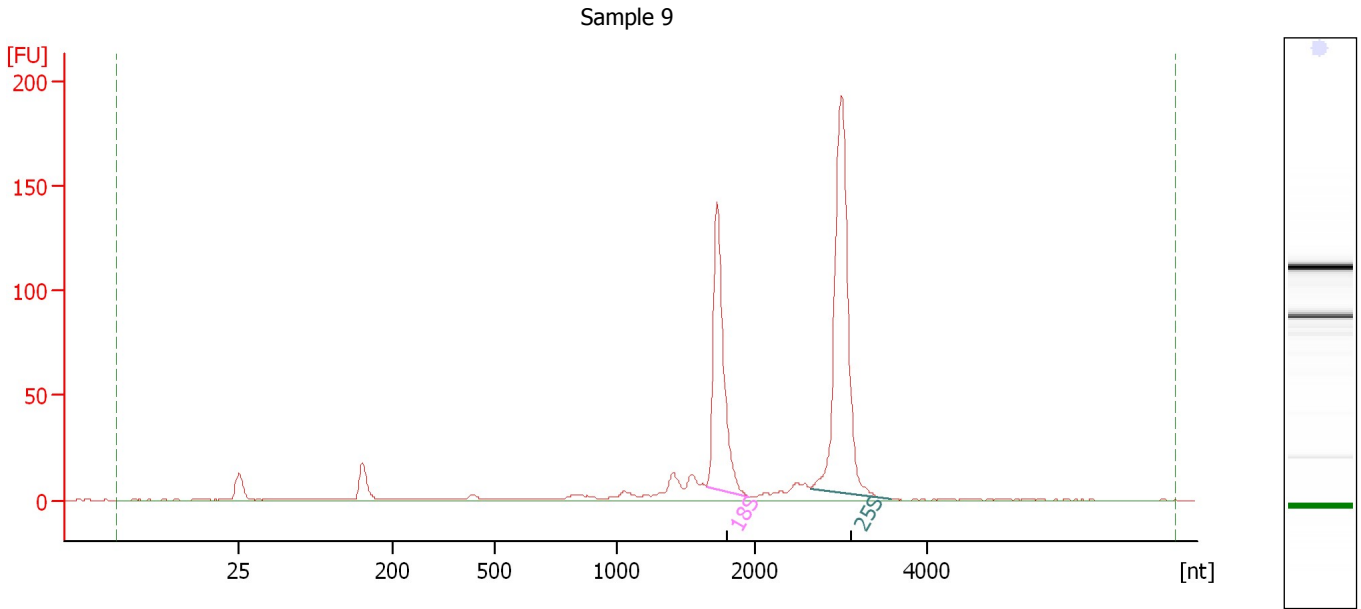
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,684	1,999	66.2	25.0
25S	2,450	3,684	121.1	45.8

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	600.4	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	201 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.6	Result Flagging Label:	RIN: 9.70

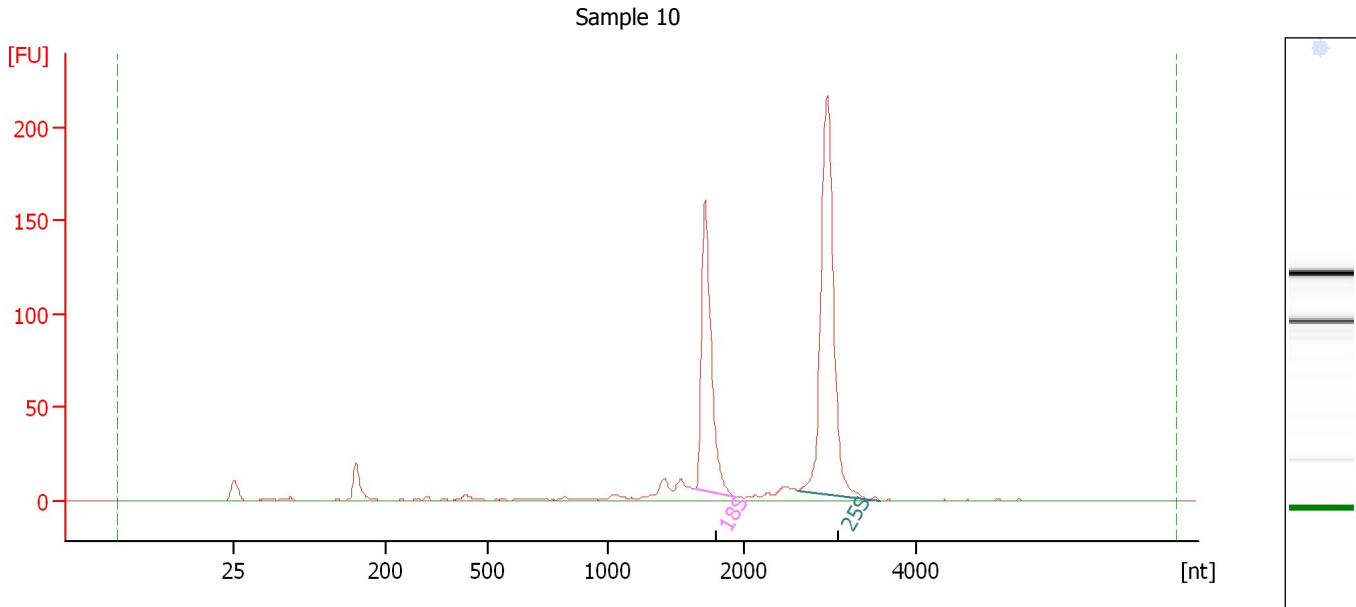
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,655	1,958	162.1	27.0
25S	2,650	3,590	256.6	42.7

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area: 623.3 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 209 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.6 Result Flagging Label: RIN:10

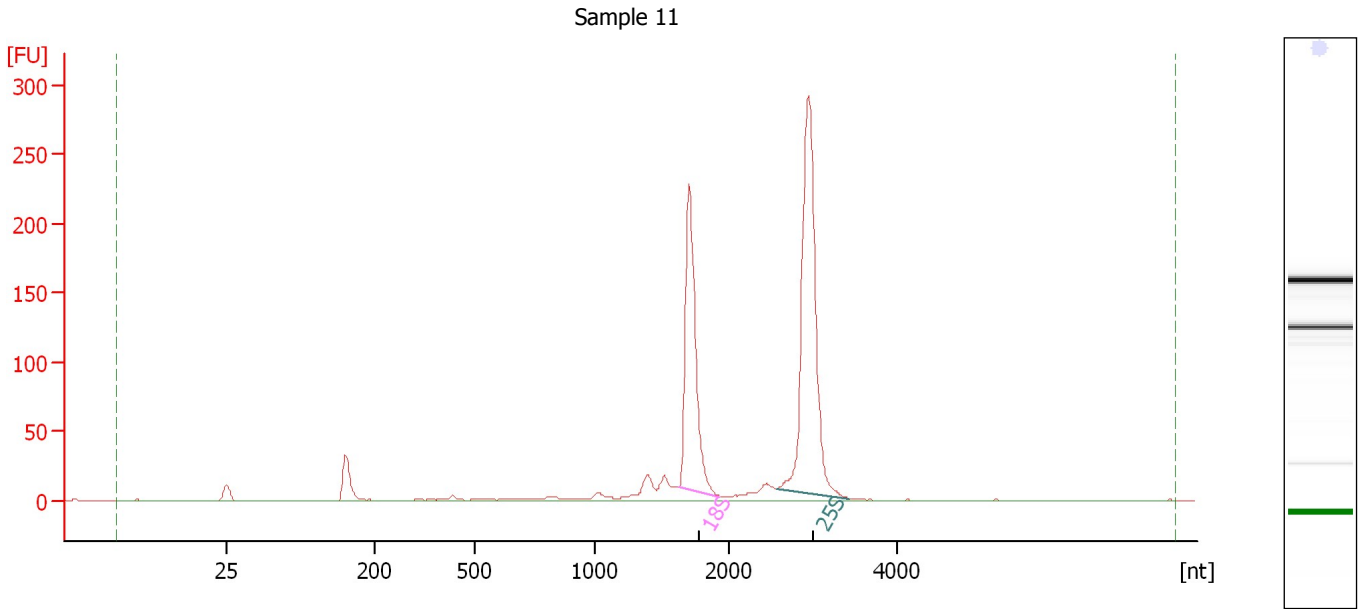
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	1,940	174.9	28.1
25S	2,617	3,590	283.2	45.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area:	934.4	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	313 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.6	Result Flagging Label:	RIN: 9.80

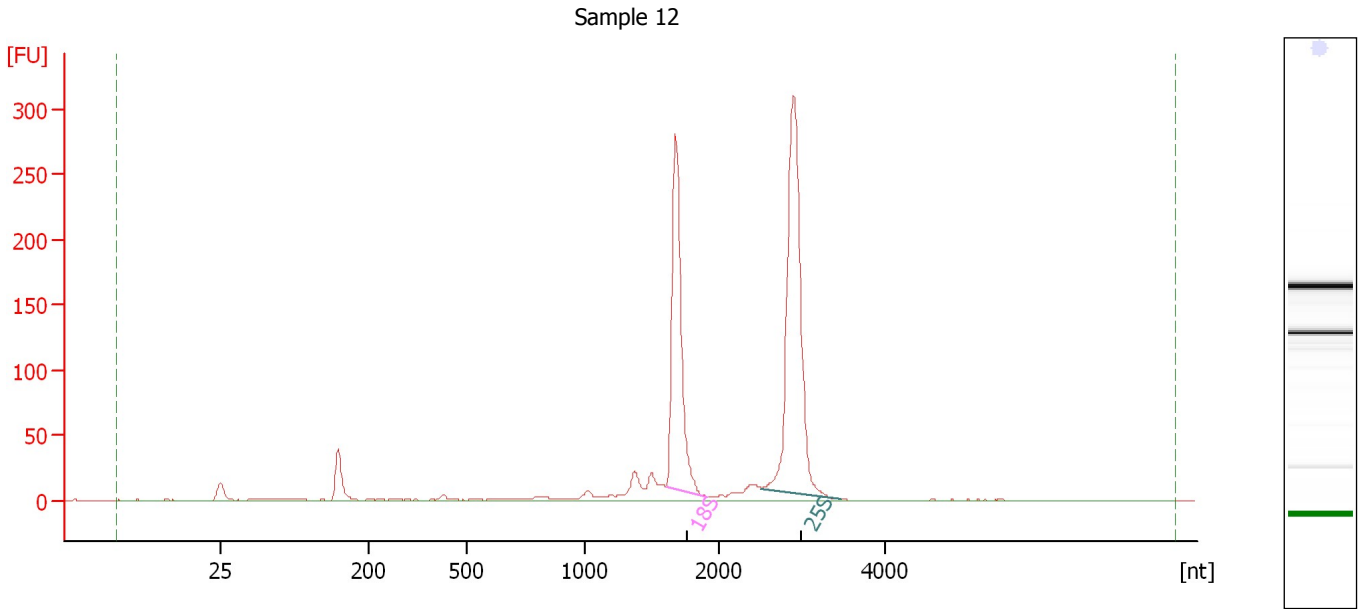
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	1,929	256.7	27.5
25S	2,558	3,432	403.6	43.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Sample 12

RNA Area: 996.6 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 334 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.5 Result Flagging Label: RIN: 9.70

Fragment table for sample 12 : Sample 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,918	285.9	28.7
25S	2,510	3,457	436.8	43.8

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_002.xad

Created: 10/25/2017 12:24:55 PM
Modified: 10/25/2017 12:55:01 PM

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