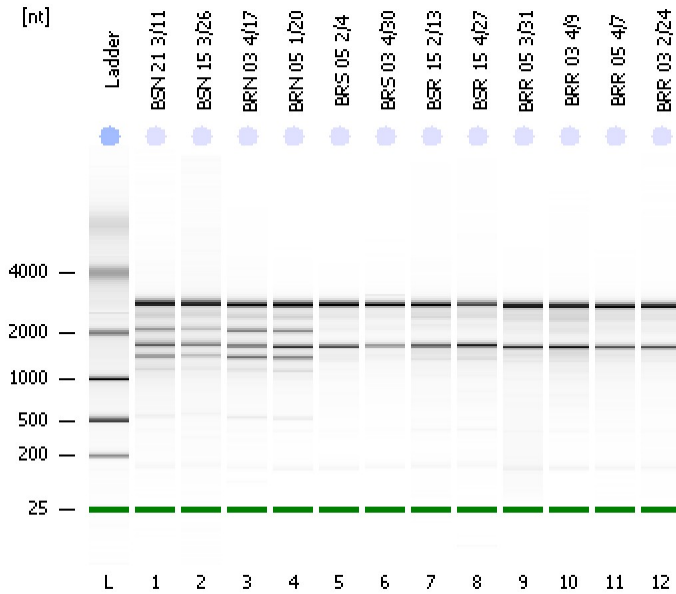


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 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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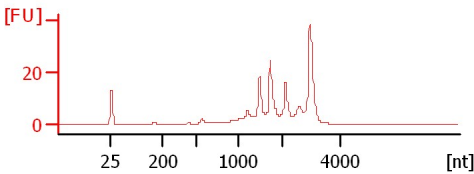
Chip Information:

Chip Lot #:

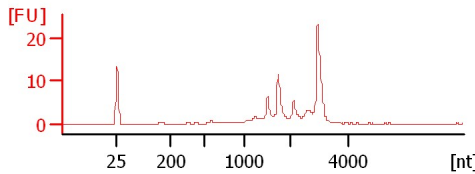
Reagent Kit Lot #:

Chip Comments:

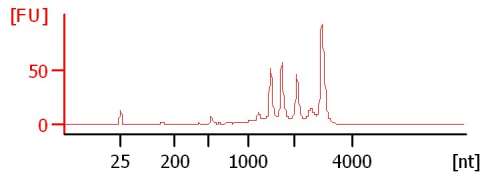
BSN 21 3/11
RIN: 7.70



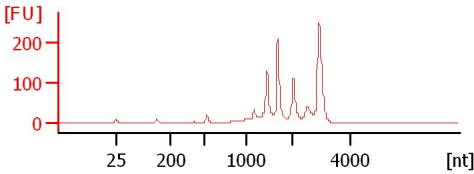
BSN 15 3/26
RIN: 8.20



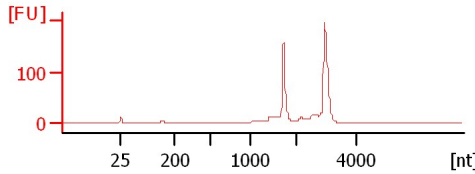
BRN 03 4/17
RIN: 7.70



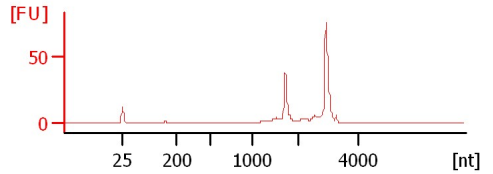
BRN 05 1/20
RIN: 7.50



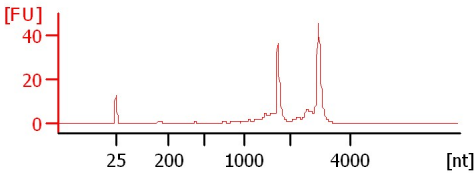
BRS 05 2/4
RIN: 9.20



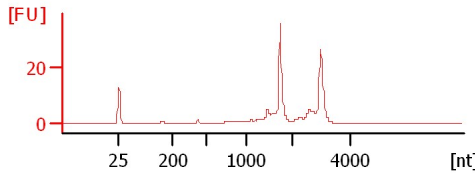
BRS 03 4/30
RIN: 9.10



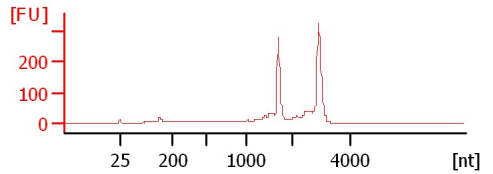
BSR 15 2/13
RIN: 8.70



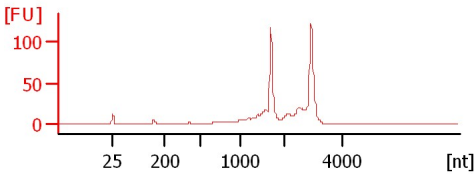
BSR 15 4/27
RIN: 8.30



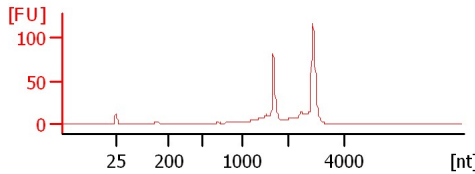
BRR 05 3/31
RIN: 8



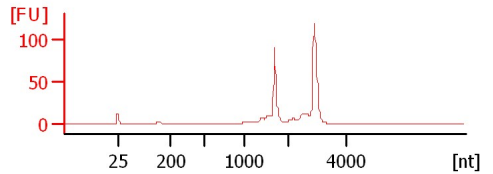
BRR 03 4/9
RIN: 7.70



BRR 05 4/7
RIN: 8.60



BRR 03 2/24
RIN: 8.80



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
 Modified: 5/19/2015 3:50:10 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
BSN 21 3/11		✓	RIN: 7.70	
BSN 15 3/26		✓	RIN: 8.20	
BRN 03 4/17		✓	RIN: 7.70	
BRN 05 1/20		✓	RIN: 7.50	
BRS 05 2/4		✓	RIN: 9.20	
BRS 03 4/30		✓	RIN: 9.10	
BSR 15 2/13		✓	RIN: 8.70	
BSR 15 4/27		✓	RIN: 8.30	
BRR 05 3/31		✓	RIN:8	
BRR 03 4/9		✓	RIN: 7.70	
BRR 05 4/7		✓	RIN: 8.60	
BRR 03 2/24		✓	RIN: 8.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 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

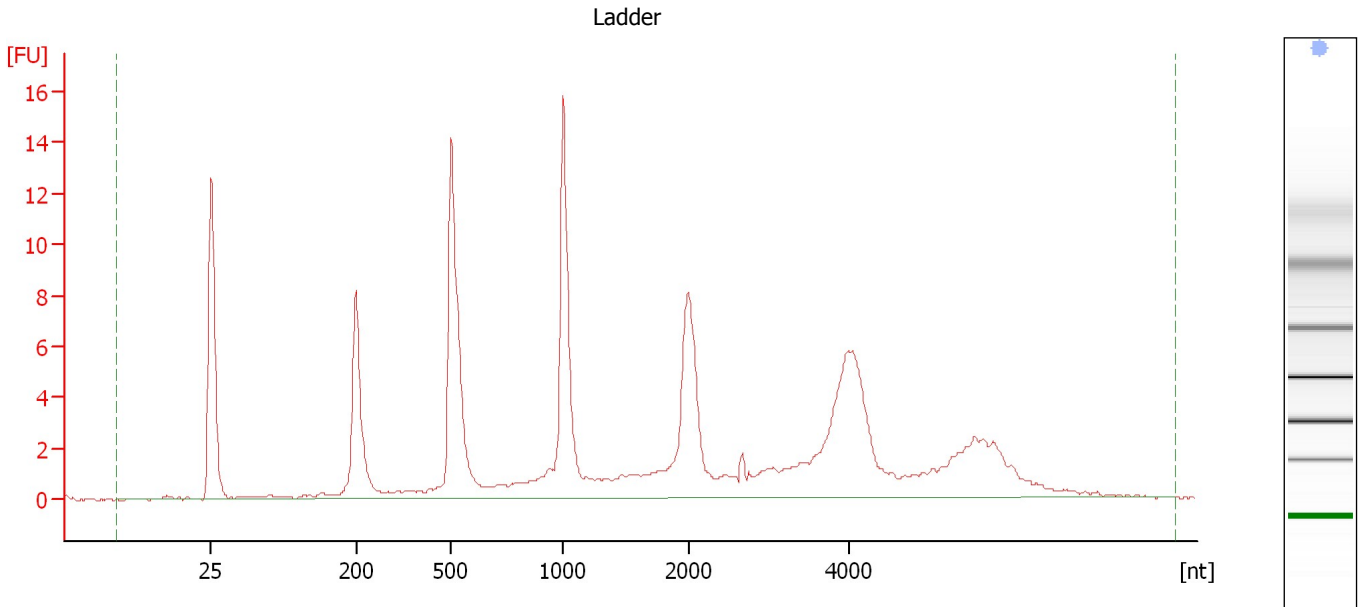
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 PM

Electropherogram Summary



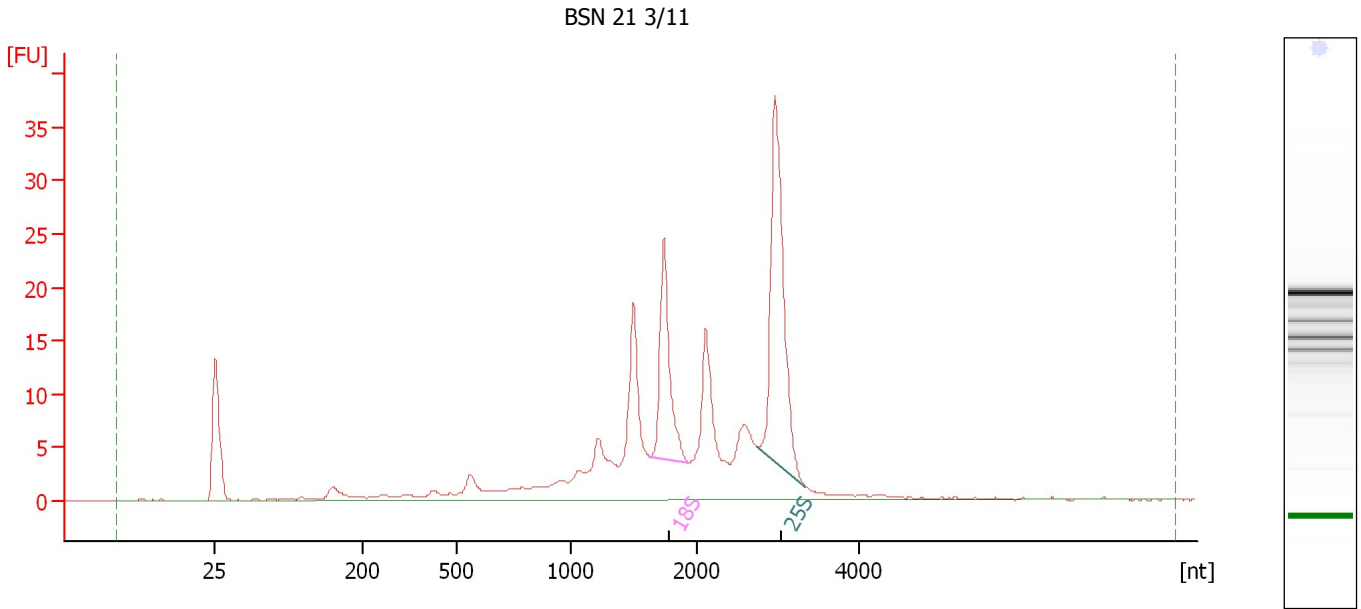
Overall Results for Ladder

RNA Area:	135.2	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : BSN 21 3/11

RNA Area: 221.3 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 246 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.0 Result Flagging Label: RIN: 7.70

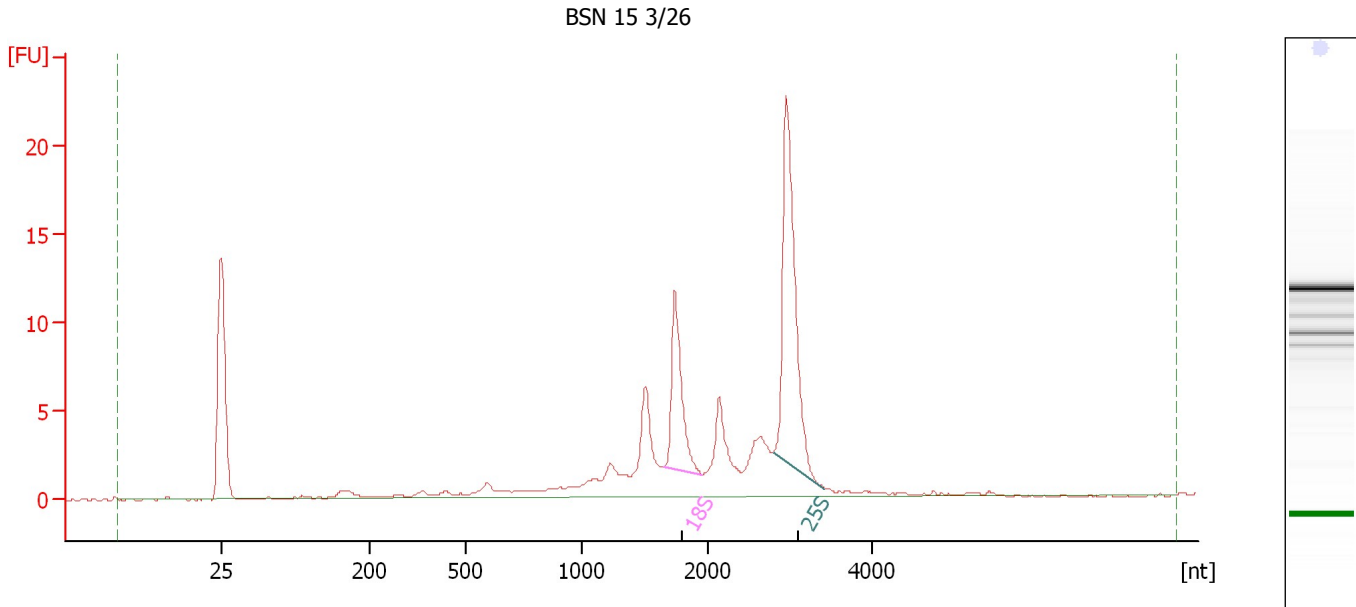
Fragment table for sample 1 : BSN 21 3/11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,620	1,942	22.9	10.3
25S	2,743	3,338	46.1	20.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : BSN 15 3/26

RNA Area: 96.5 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 107 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.3 Result Flagging Label: RIN: 8.20

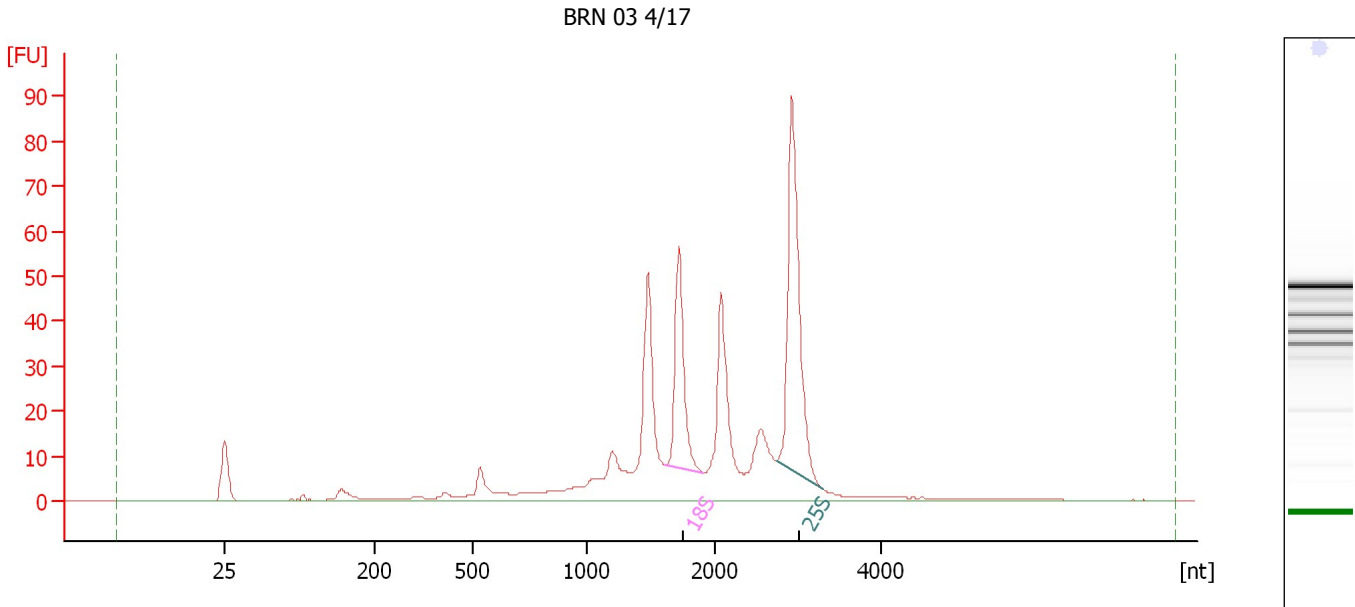
Fragment table for sample 2 : BSN 15 3/26

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,644	1,954	11.5	12.0
25S	2,792	3,421	26.2	27.1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : BRN 03 4/17

RNA Area: 464.3 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 515 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.0 Result Flagging Label: RIN: 7.70

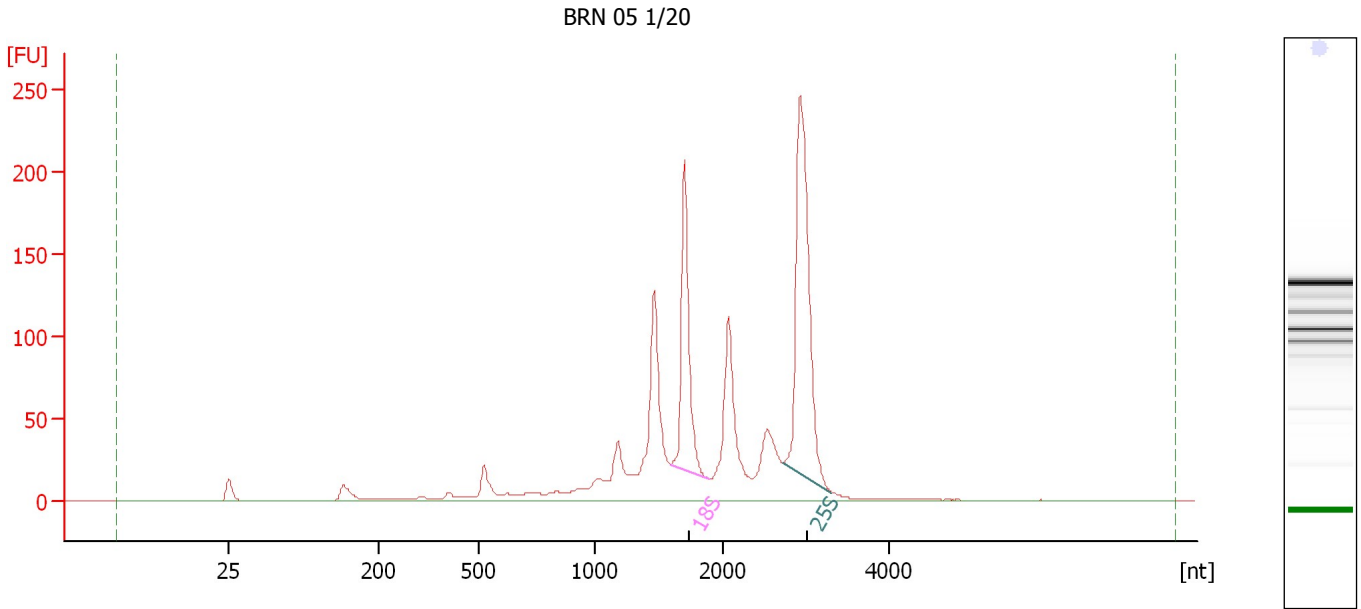
Fragment table for sample 3 : BRN 03 4/17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,607	1,907	49.7	10.7
25S	2,737	3,295	98.5	21.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : BRN 05 1/20

RNA Area: 1,254.3 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 1,392 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN: 7.50

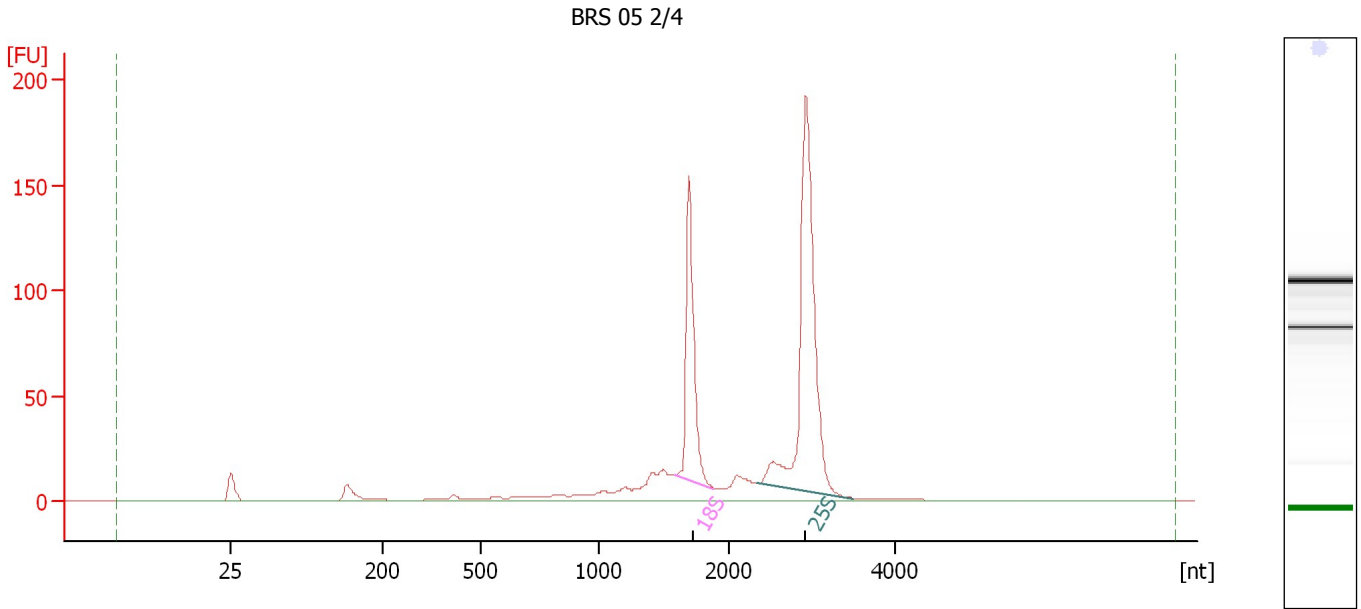
Fragment table for sample 4 : BRN 05 1/20

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,596	1,885	167.0	13.3
25S	2,709	3,301	304.9	24.3

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : BRS 05 2/4

RNA Area: 650.3 RNA Integrity Number (RIN): 9.2 (B.02.08)
RNA Concentration: 722 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.2 Result Flagging Label: RIN: 9.20

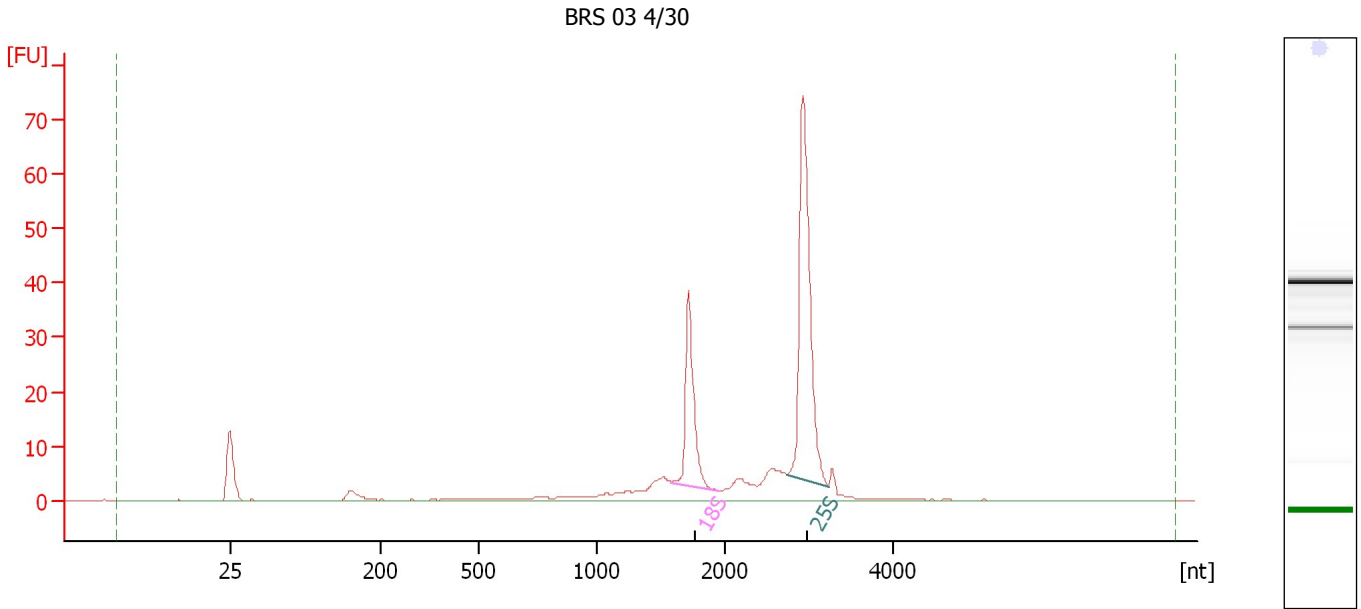
Fragment table for sample 5 : BRS 05 2/4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,599	1,886	125.7	19.3
25S	2,349	3,503	272.9	42.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : BRS 03 4/30

RNA Area: 193.3 RNA Integrity Number (RIN): 9.1 (B.02.08)
RNA Concentration: 214 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.3 Result Flagging Label: RIN: 9.10

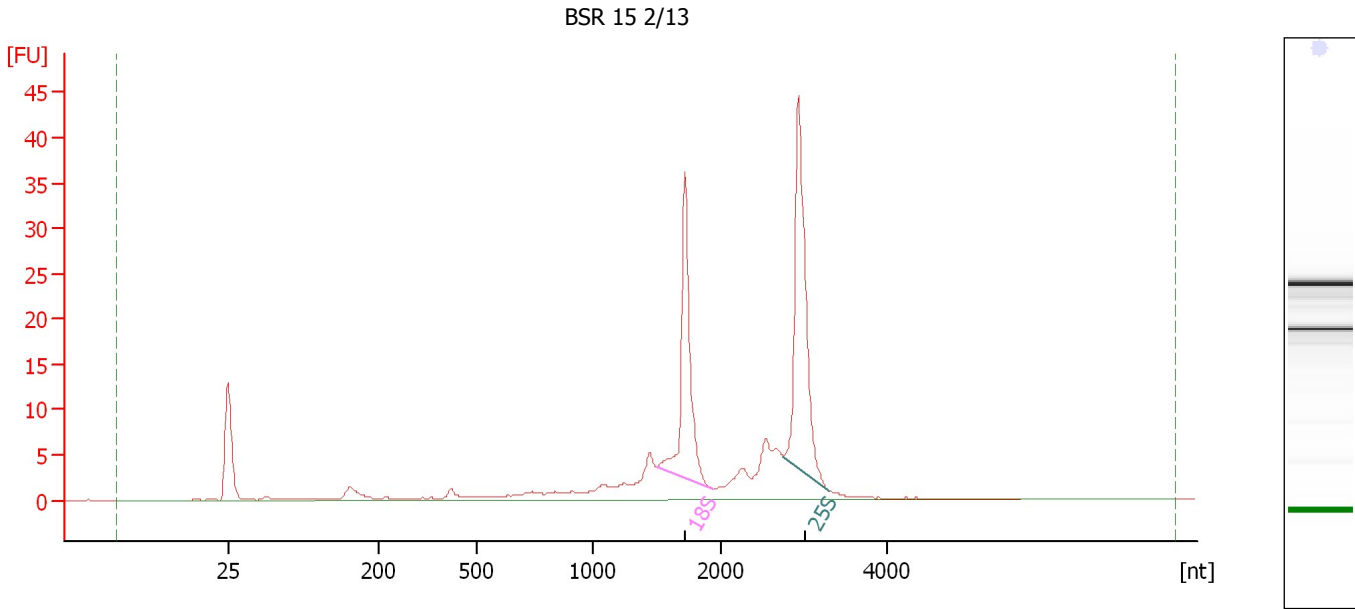
Fragment table for sample 6 : BRS 03 4/30

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,581	1,951	33.0	17.1
25S	2,734	3,235	75.3	39.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : BSR 15 2/13

RNA Area: 164.8 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 183 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.3 Result Flagging Label: RIN: 8.70

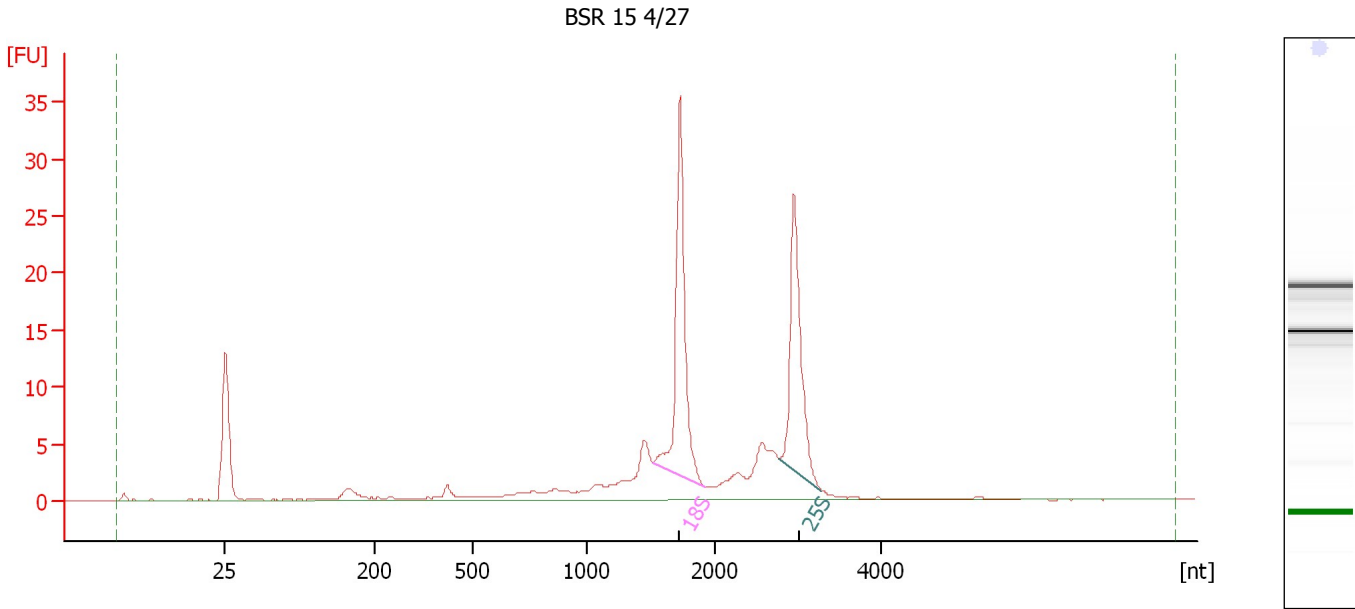
Fragment table for sample 7 : BSR 15 2/13

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,504	1,925	34.5	20.9
25S	2,748	3,290	45.0	27.3

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : BSR 15 4/27

RNA Area: 130.3 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 145 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN: 8.30

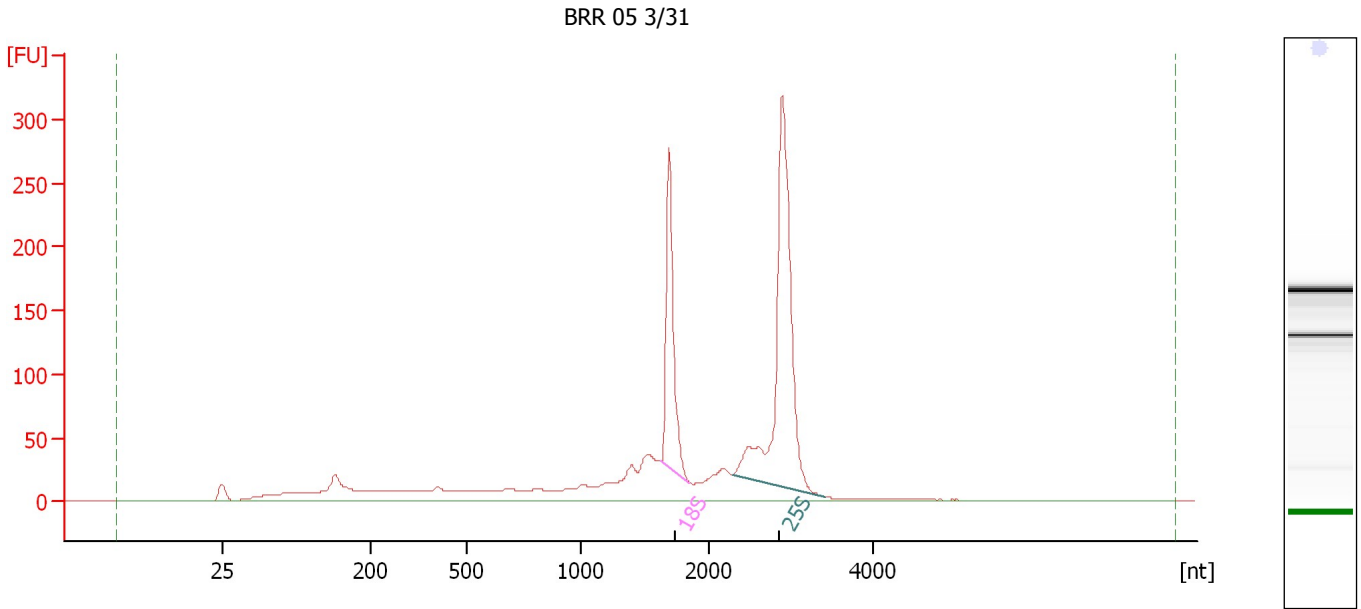
Fragment table for sample 8 : BSR 15 4/27

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,516	1,915	33.4	25.6
25S	2,776	3,283	27.2	20.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : BRR 05 3/31

RNA Area: 1,528.1 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 1,696 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.2 Result Flagging Label: RIN:8

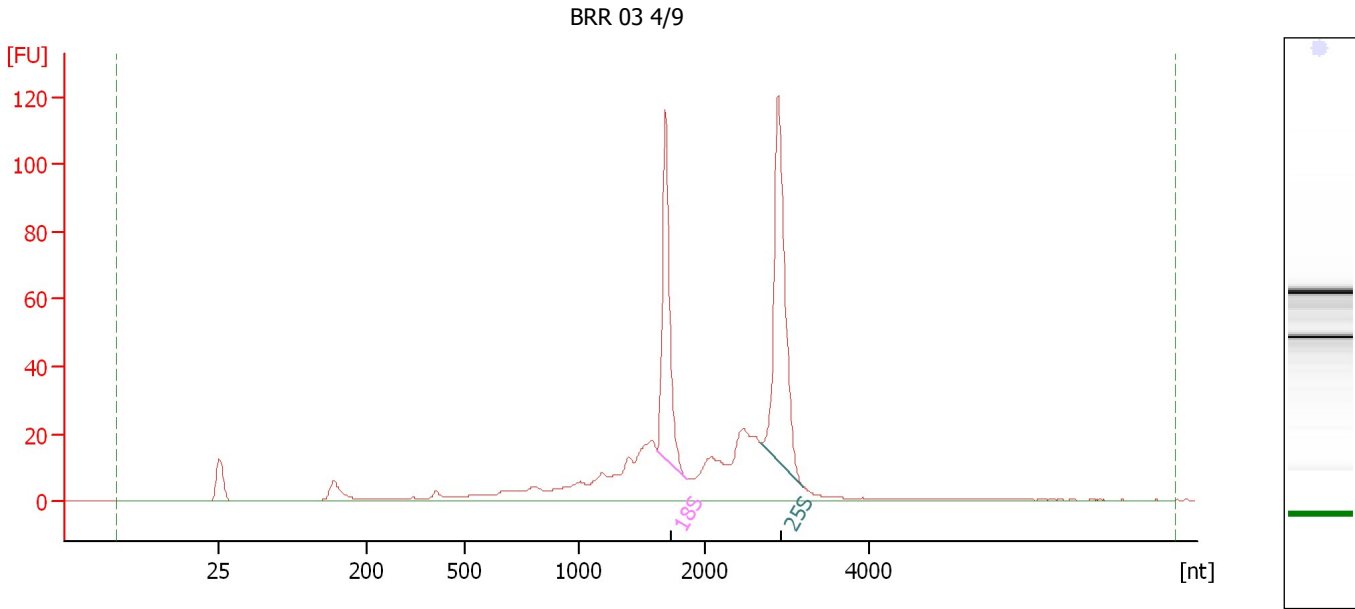
Fragment table for sample 9 : BRR 05 3/31

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,620	1,846	220.0	14.4
25S	2,282	3,405	486.9	31.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : BRR 03 4/9

RNA Area: 551.8 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 612 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 7.70

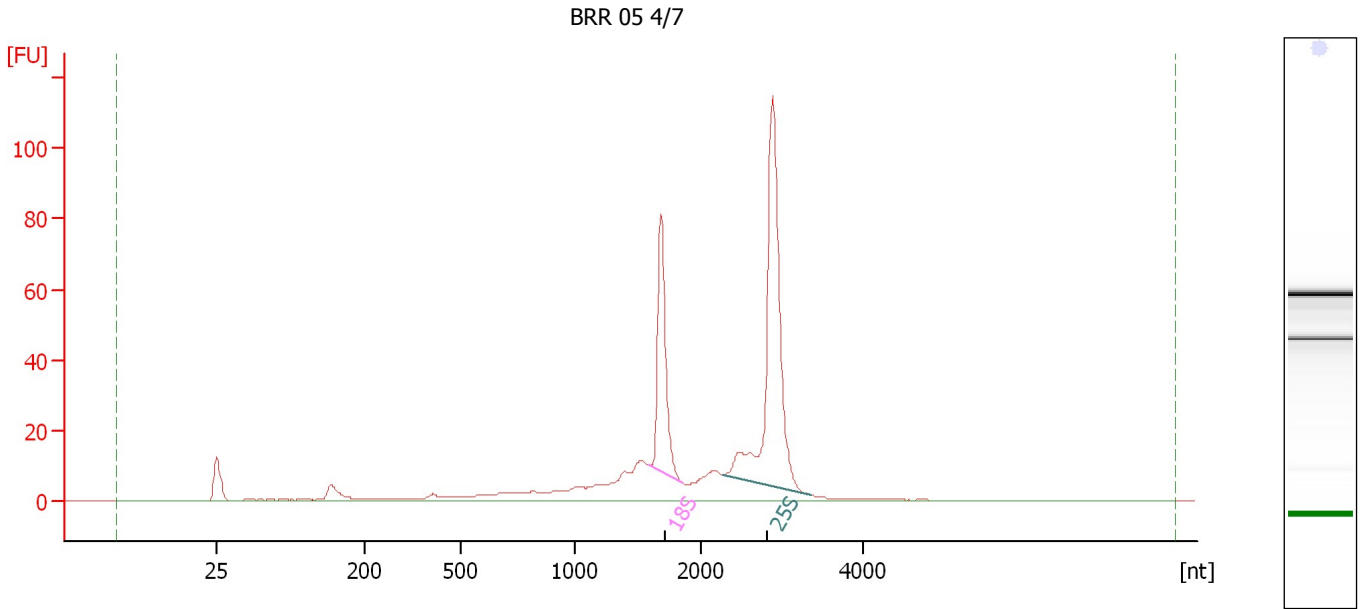
Fragment table for sample 10 : BRR 03 4/9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,626	1,853	89.4	16.2
25S	2,688	3,200	128.8	23.3

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : BRR 05 4/7

RNA Area: 434.2 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 482 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.3 Result Flagging Label: RIN: 8.60

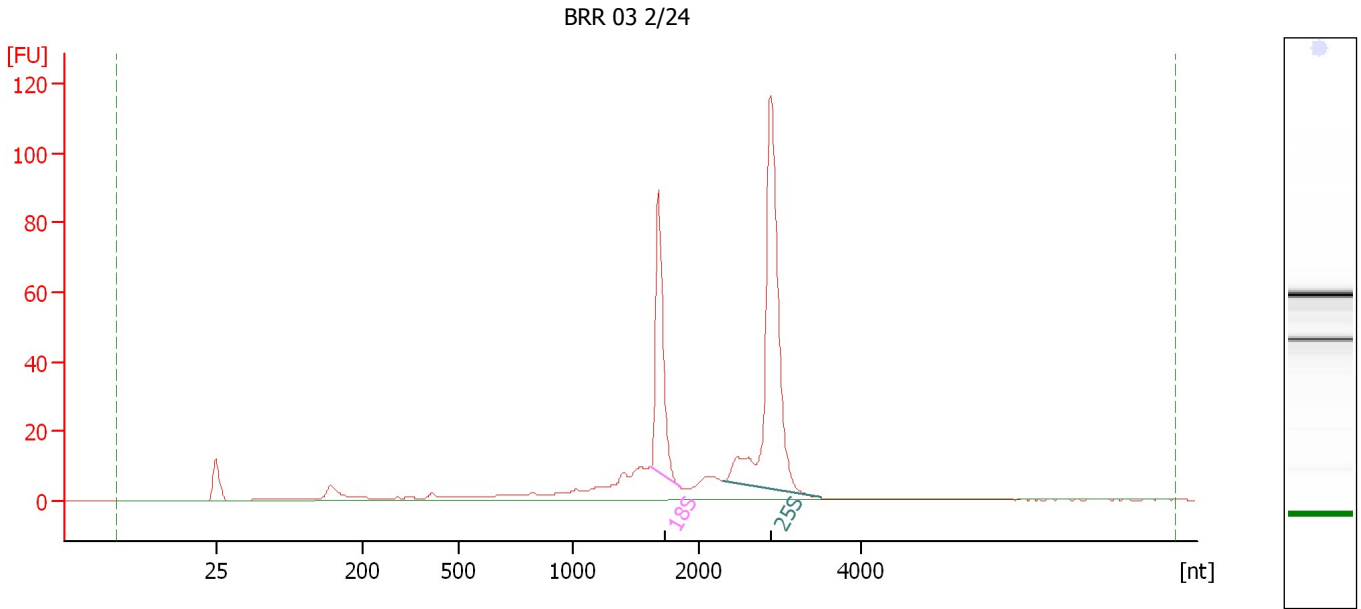
Fragment table for sample 11 : BRR 05 4/7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,581	1,851	66.6	15.3
25S	2,281	3,348	154.6	35.6

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : BRR 03 2/24

RNA Area: 409.2 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 454 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.3 Result Flagging Label: RIN: 8.80

Fragment table for sample 12 : BRR 03 2/24

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,622	1,850	69.6	17.0
25S	2,307	3,495	159.4	39.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-19\2015-05-19_003.xad

Created: 5/19/2015 3:26:20 PM
Modified: 5/19/2015 3:50:10 PM

Gel Image

