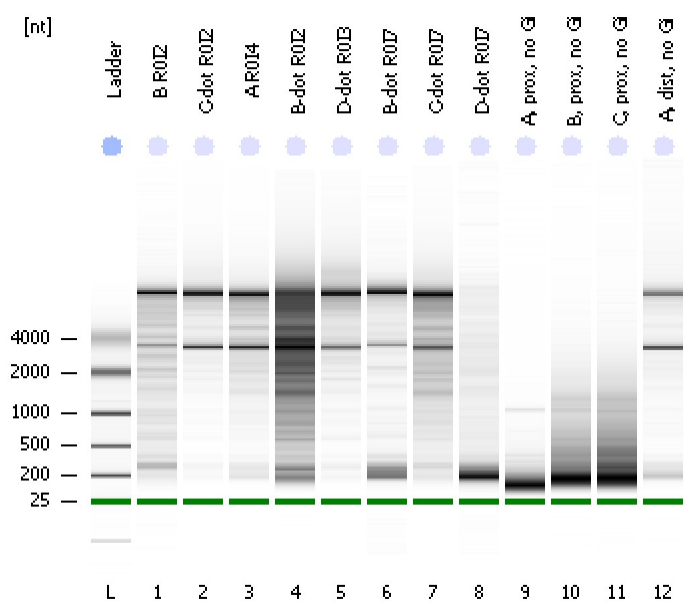


Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
 Modified: 7/11/2014 3:05:43 PM

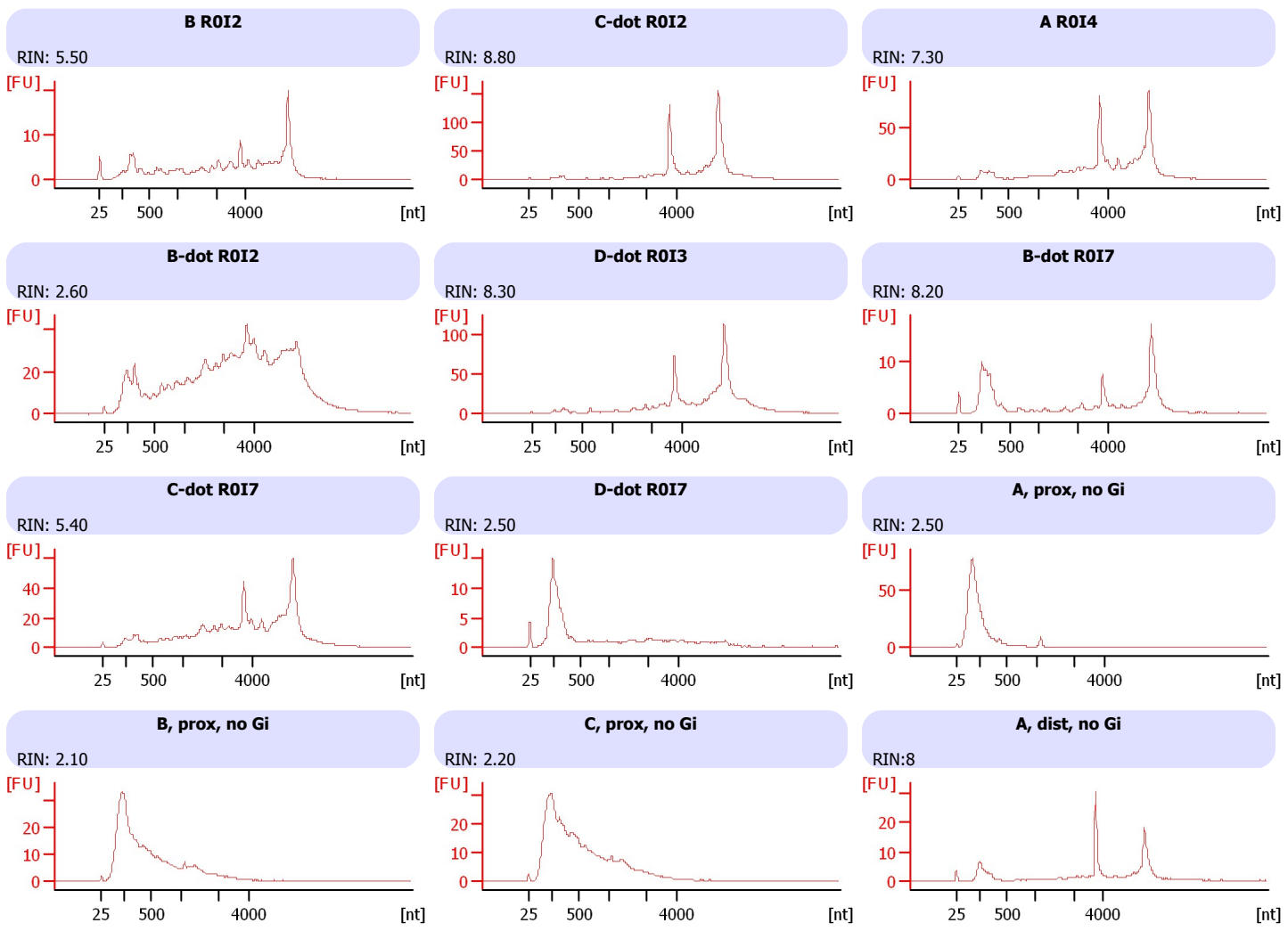
Electrophoresis File Run Summary



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\Eukaryote Total RNA Nano Series II.xsy
 Assay Class: Eukaryote Total RNA Nano
 Version: 2.6
 Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)
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Chip Information:
 Chip Lot #:
 Reagent Kit Lot #:
 Chip Comments:



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
 Modified: 7/11/2014 3:05:43 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
B R0I2		✓	RIN: 5.50	
C-dot R0I2		✓	RIN: 8.80	
A R0I4		✓	RIN: 7.30	
B-dot R0I2		✓	RIN: 2.60	
D-dot R0I3		✓	RIN: 8.30	
B-dot R0I7		✓	RIN: 8.20	
C-dot R0I7		✓	RIN: 5.40	
D-dot R0I7		✓	RIN: 2.50	
A, prox, no Gi		✓	RIN: 2.50	
B, prox, no Gi		✓	RIN: 2.10	
C, prox, no Gi		✓	RIN: 2.20	
A, dist, no Gi		✓	RIN:8	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 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] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

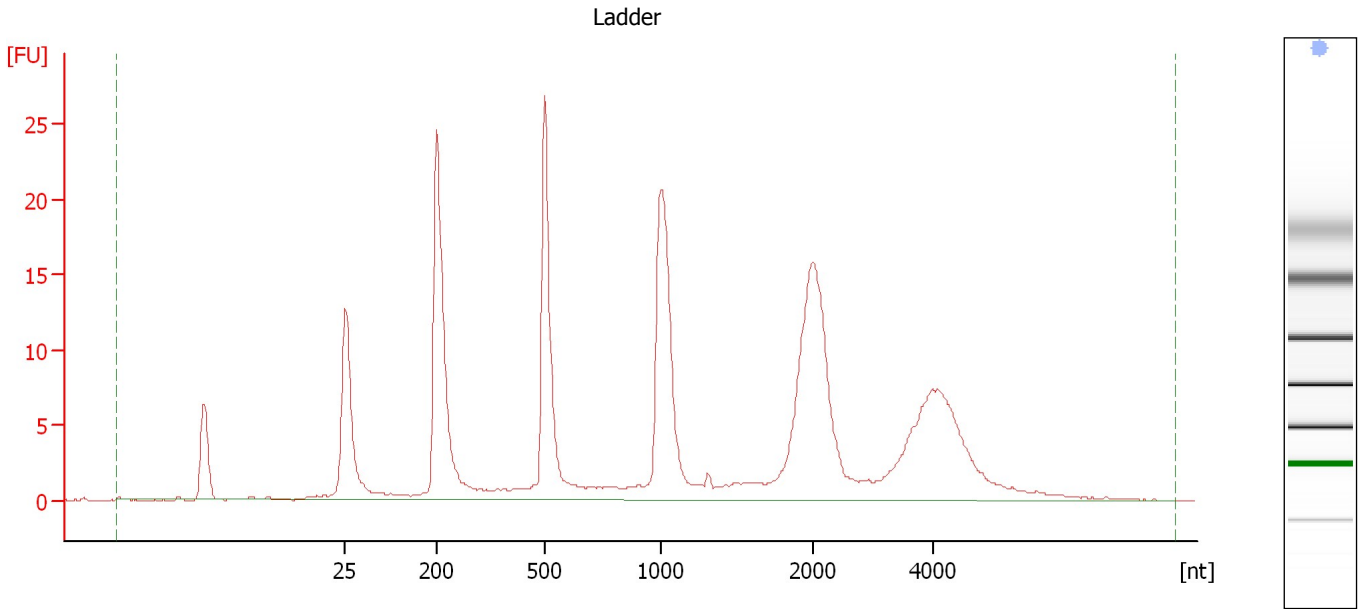
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 PM

Electropherogram Summary



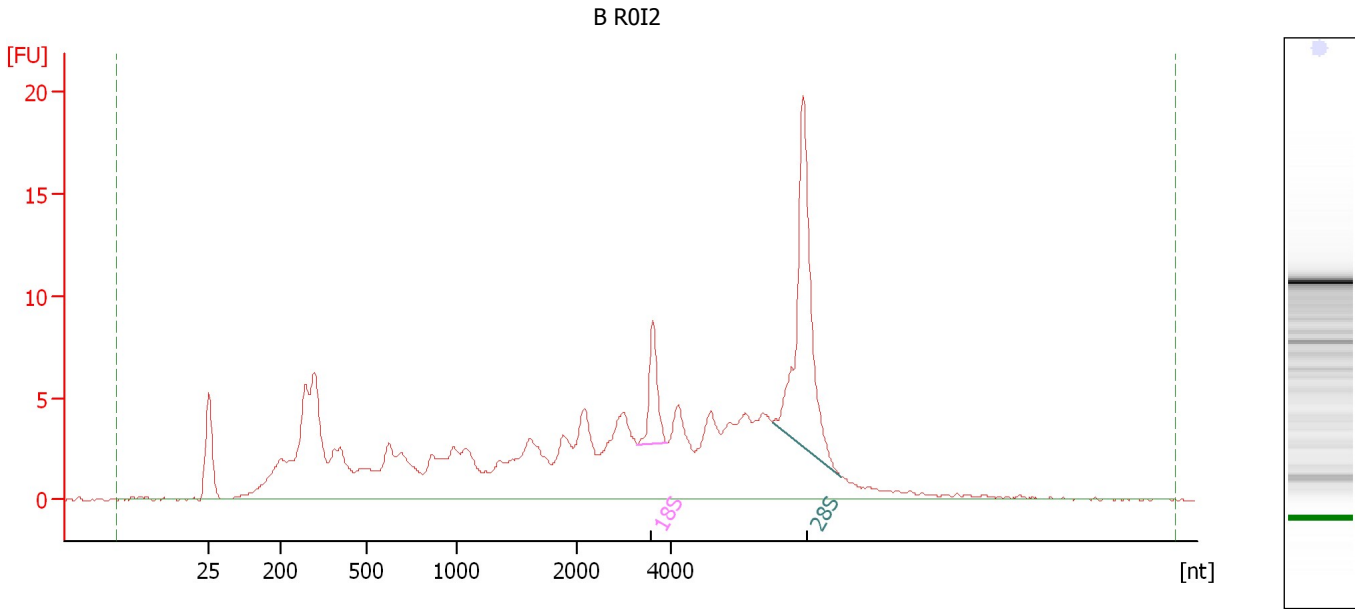
Overall Results for Ladder

RNA Area:	239.1	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : B R012

RNA Area: 218.4 RNA Integrity Number (RIN): 5.5 (B.02.08)
RNA Concentration: 137 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 4.0 Result Flagging Label: RIN: 5.50

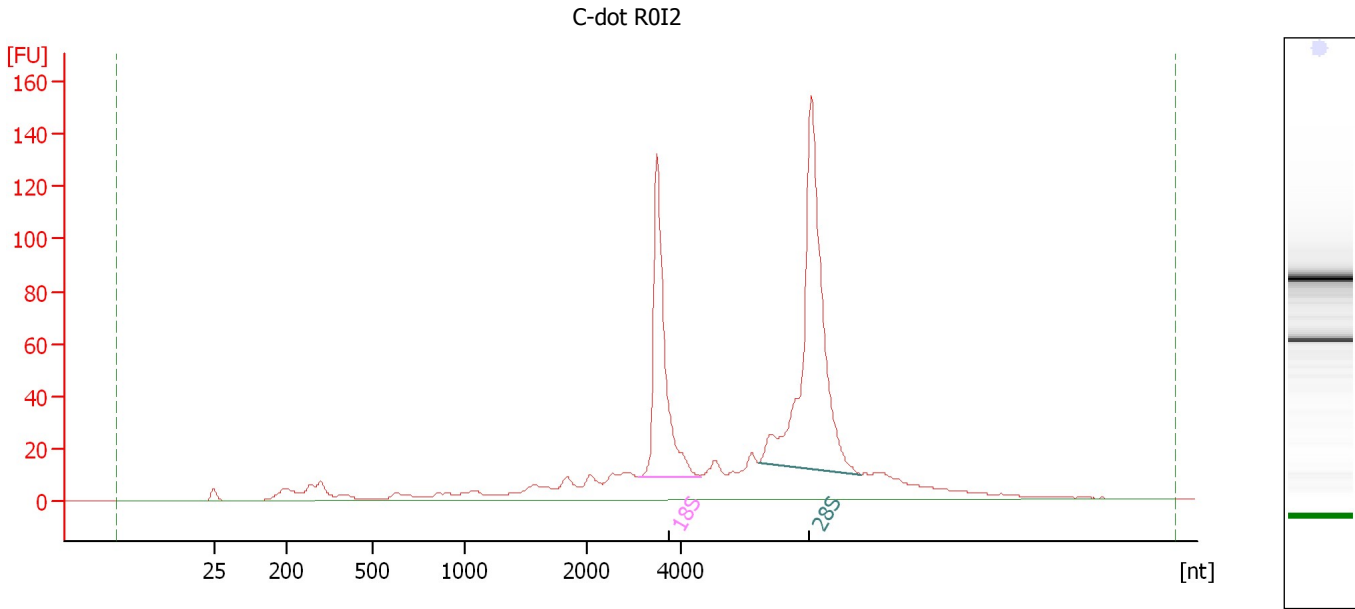
Fragment table for sample 1 : B R012

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,282	3,917	6.2	2.8
28S	6,137	7,587	24.6	11.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : C-dot R012

RNA Area: 938.1 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 589 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 8.80

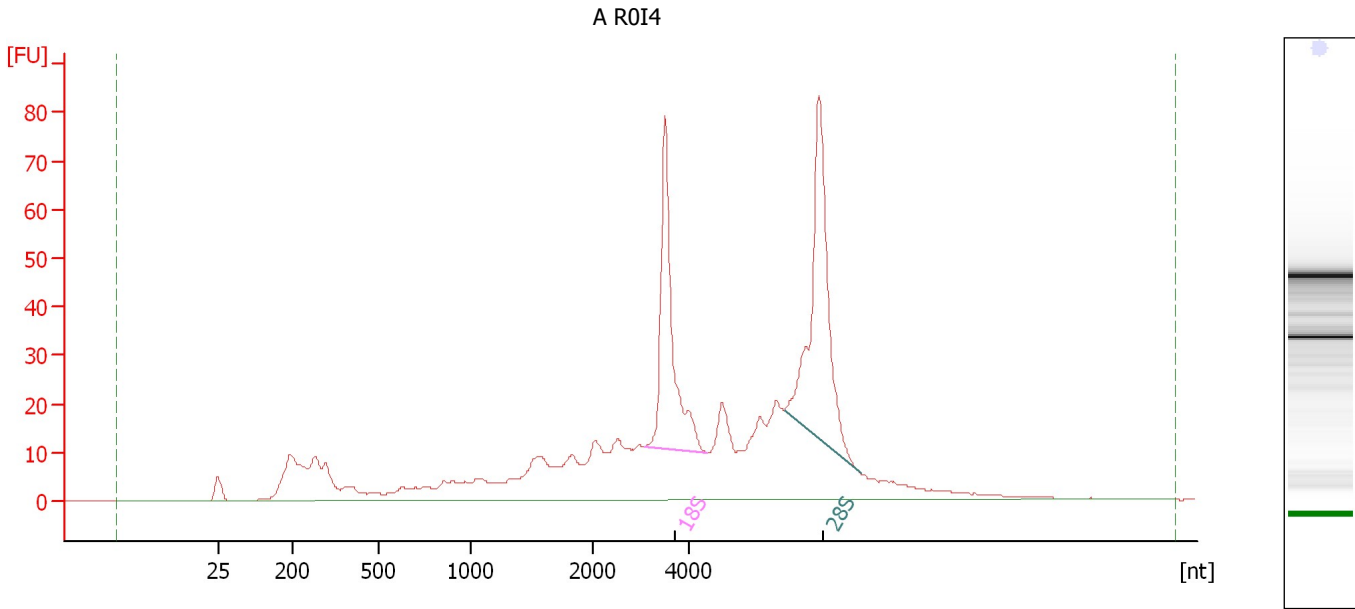
Fragment table for sample 2 : C-dot R012

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,120	4,399	160.7	17.1
28S	5,609	7,785	287.3	30.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : A R014

RNA Area:	763.5	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	479 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 7.30

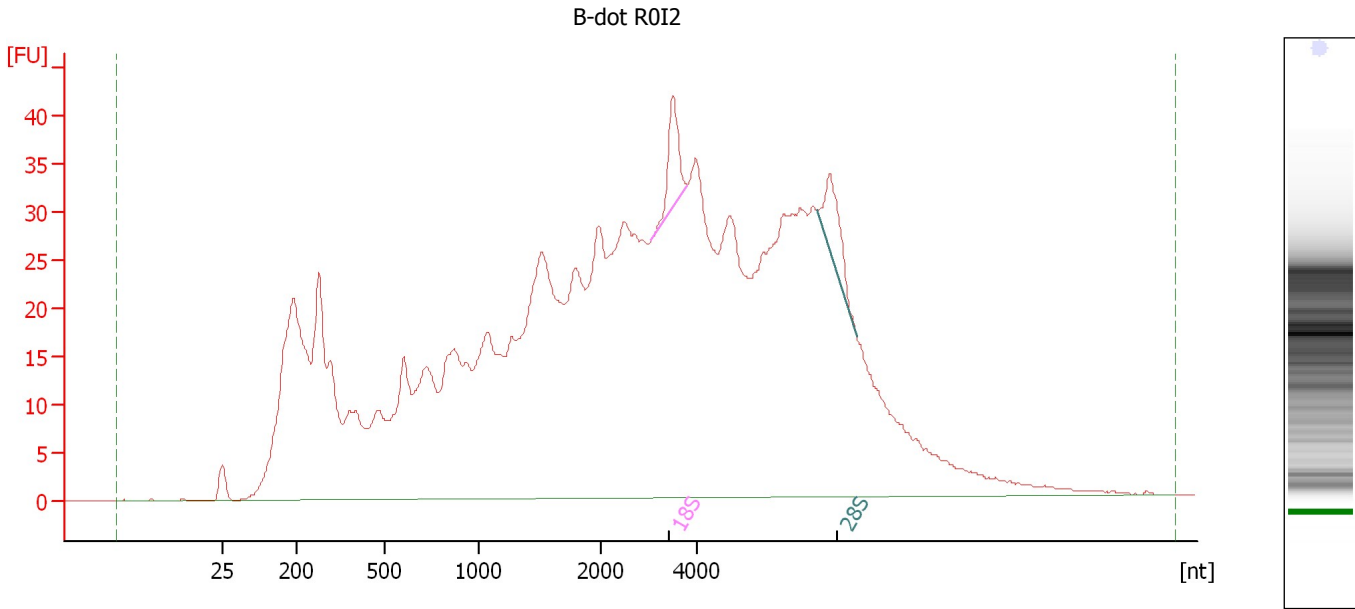
Fragment table for sample 3 : A R014

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,069	4,381	91.6	12.0
28S	5,982	7,561	119.0	15.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : B-dot R012

RNA Area:	1,471.8	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	923 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 2.60

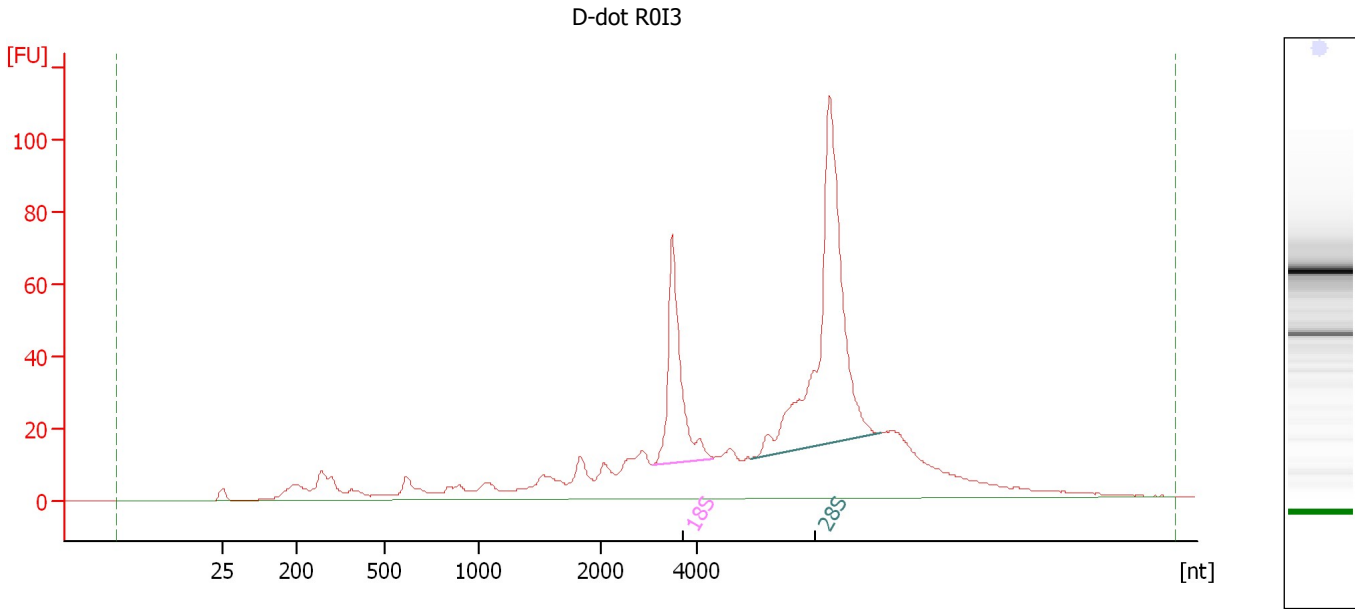
Fragment table for sample 4 : B-dot R012

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,041	3,791	13.8	0.9
28S	6,481	7,276	13.1	0.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : D-dot R0I3

RNA Area: 915.6 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 574 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.5 Result Flagging Label: RIN: 8.30

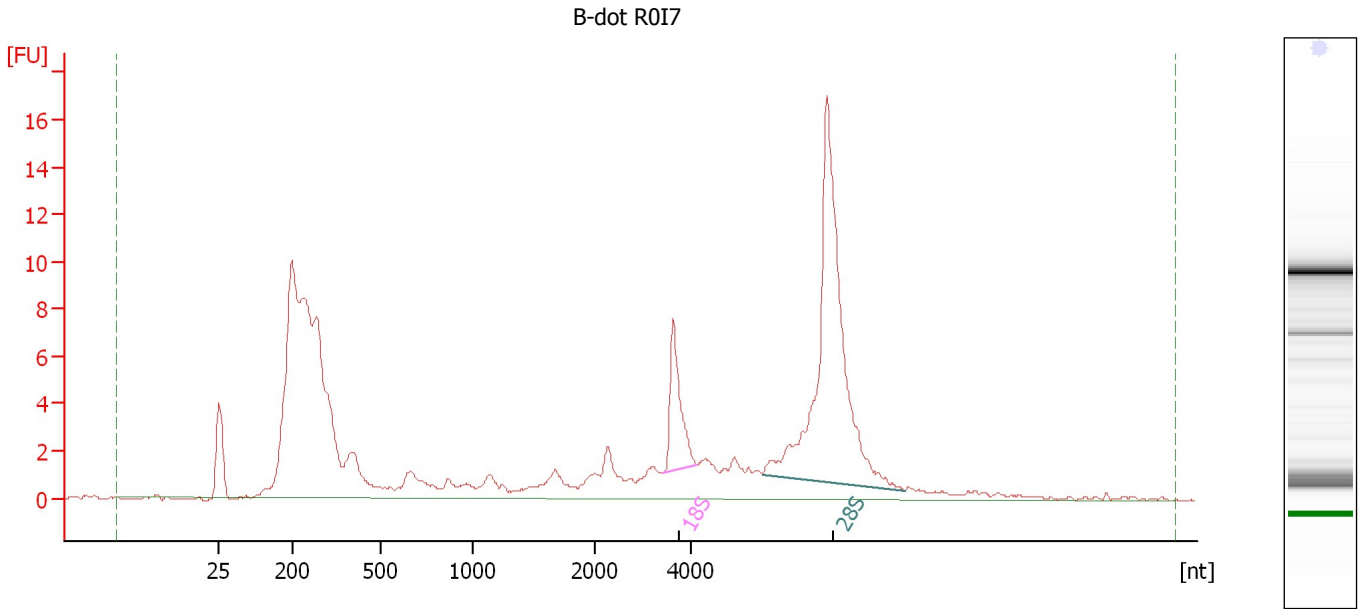
Fragment table for sample 5 : D-dot R0I3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,063	4,320	90.5	9.9
28S	5,114	7,783	229.5	25.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : B-dot R017

RNA Area: 167.2 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 105 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 5.1 Result Flagging Label: RIN: 8.20

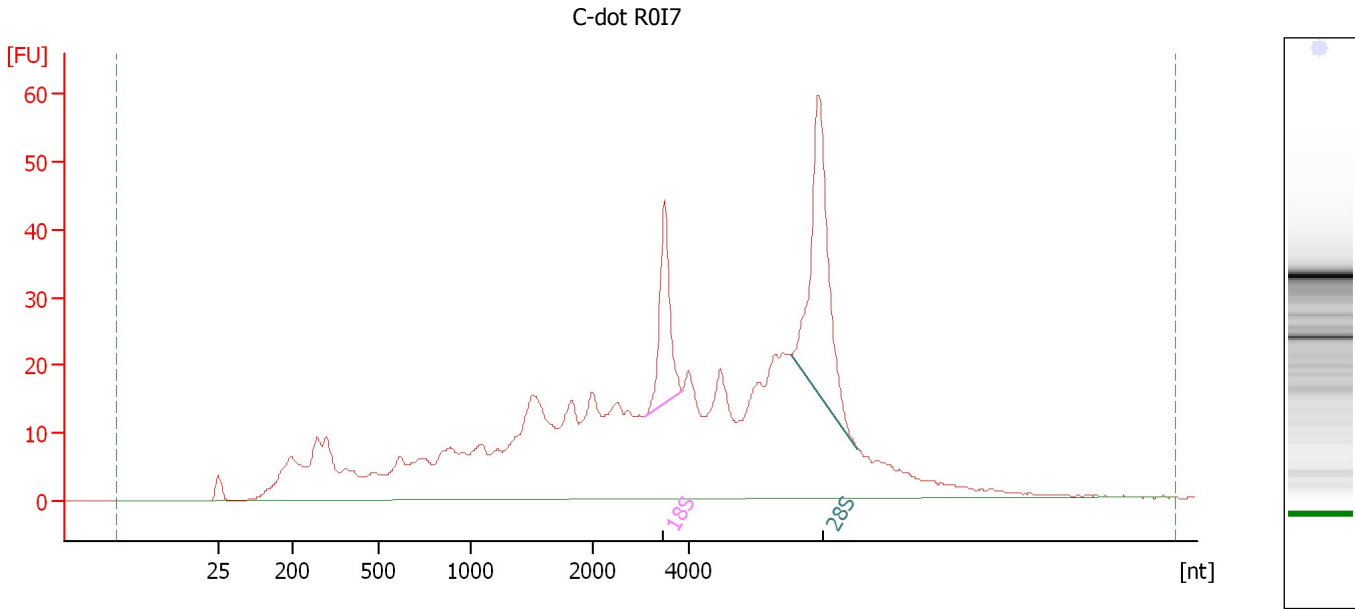
Fragment table for sample 6 : B-dot R017

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,384	4,116	7.5	4.5
28S	5,470	8,422	38.0	22.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : C-dot R017

RNA Area: 857.3 RNA Integrity Number (RIN): 5.4 (B.02.08)
RNA Concentration: 538 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN: 5.40

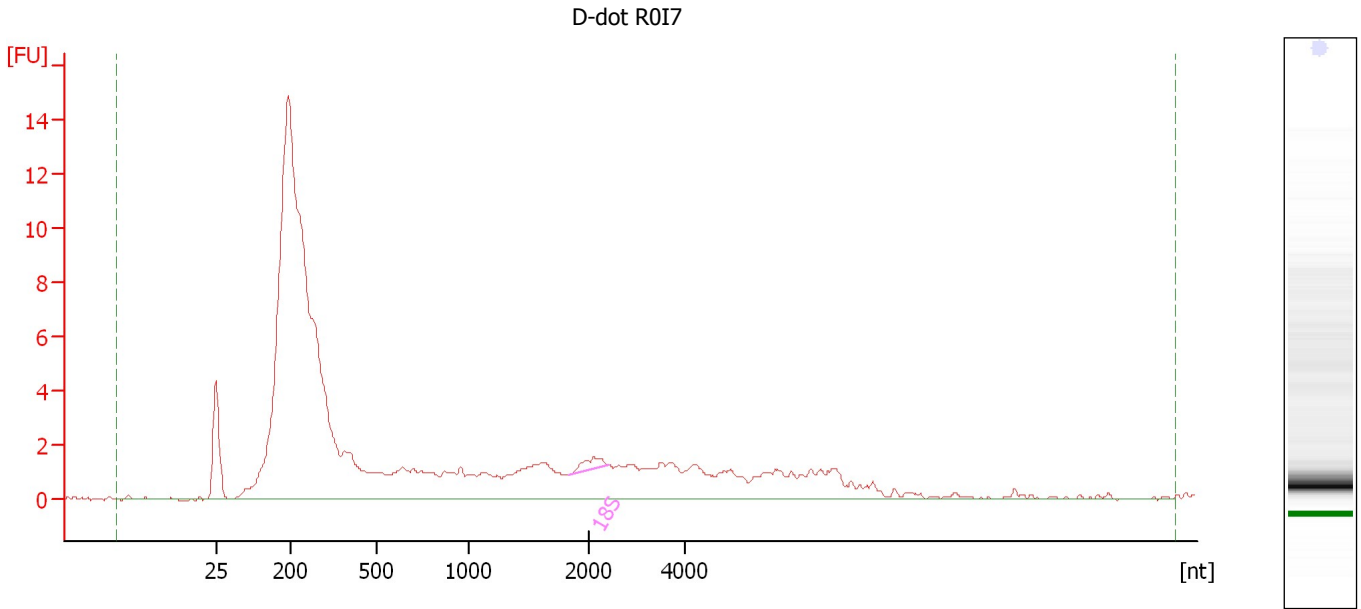
Fragment table for sample 7 : C-dot R017

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,069	3,847	35.3	4.1
28S	6,094	7,495	79.2	9.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : D-dot R0I7

RNA Area:	152.0	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	95 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Fragment table for sample 8 : D-dot R0I7

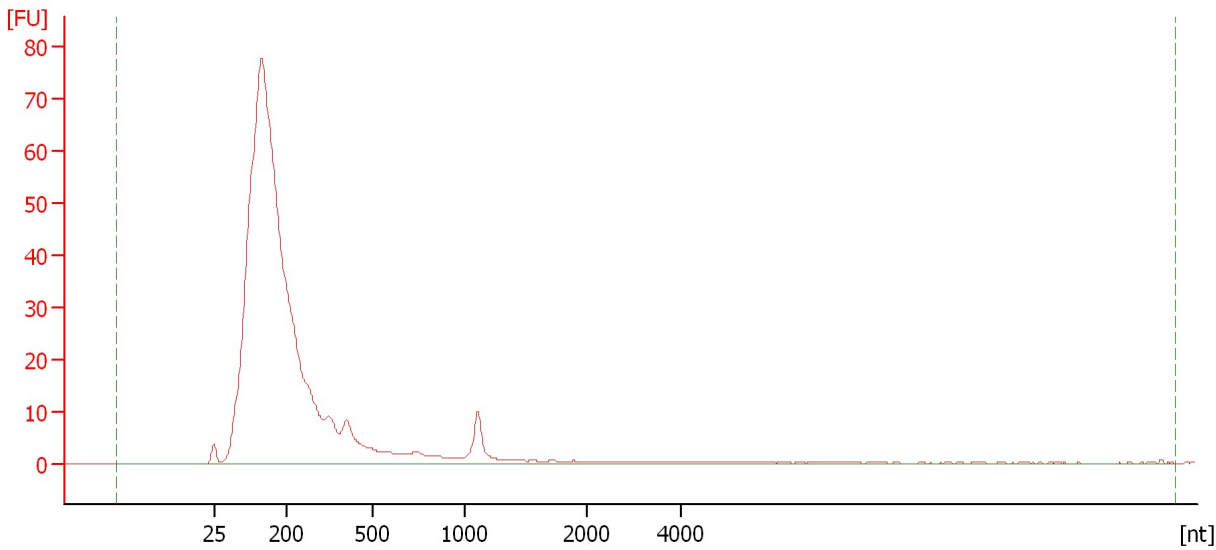
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,828	2,391	1.2	0.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 PM

Electropherogram Summary Continued ...

A, prox, no Gi



Overall Results for sample 9 : A, prox, no Gi

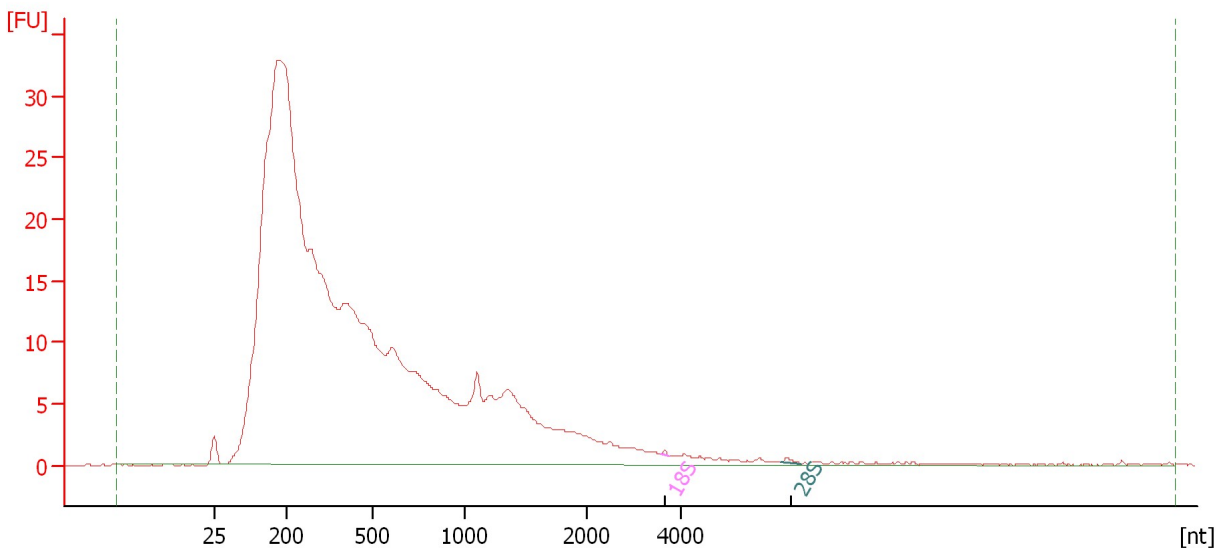
RNA Area:	670.6	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	421 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 PM

Electropherogram Summary Continued ...

B, prox, no Gi



Overall Results for sample 10 : B, prox, no Gi

RNA Area: 559.2 RNA Integrity Number (RIN): 2.1 (B.02.08)
RNA Concentration: 351 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 2.10

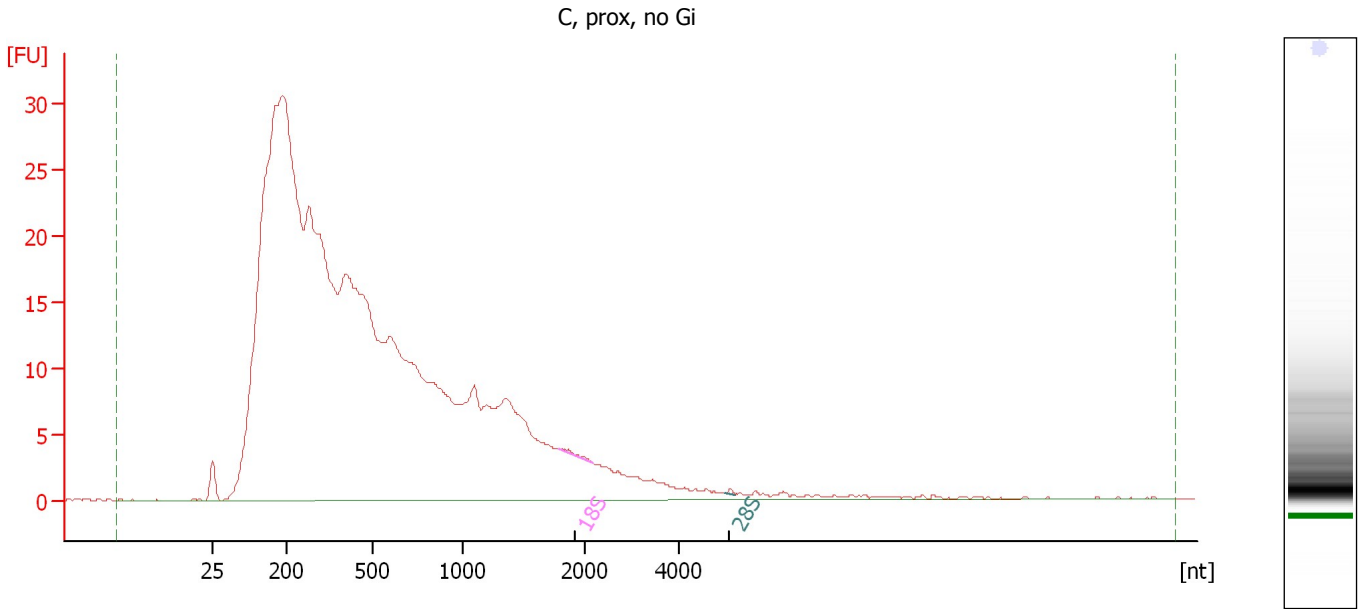
Fragment table for sample 10 : B, prox, no Gi

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,569	3,748	0.2	0.0
28S	6,103	6,506	0.3	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : C, prox, no Gi

RNA Area: 661.1 RNA Integrity Number (RIN): 2.2 (B.02.08)
RNA Concentration: 415 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.2 Result Flagging Label: RIN: 2.20

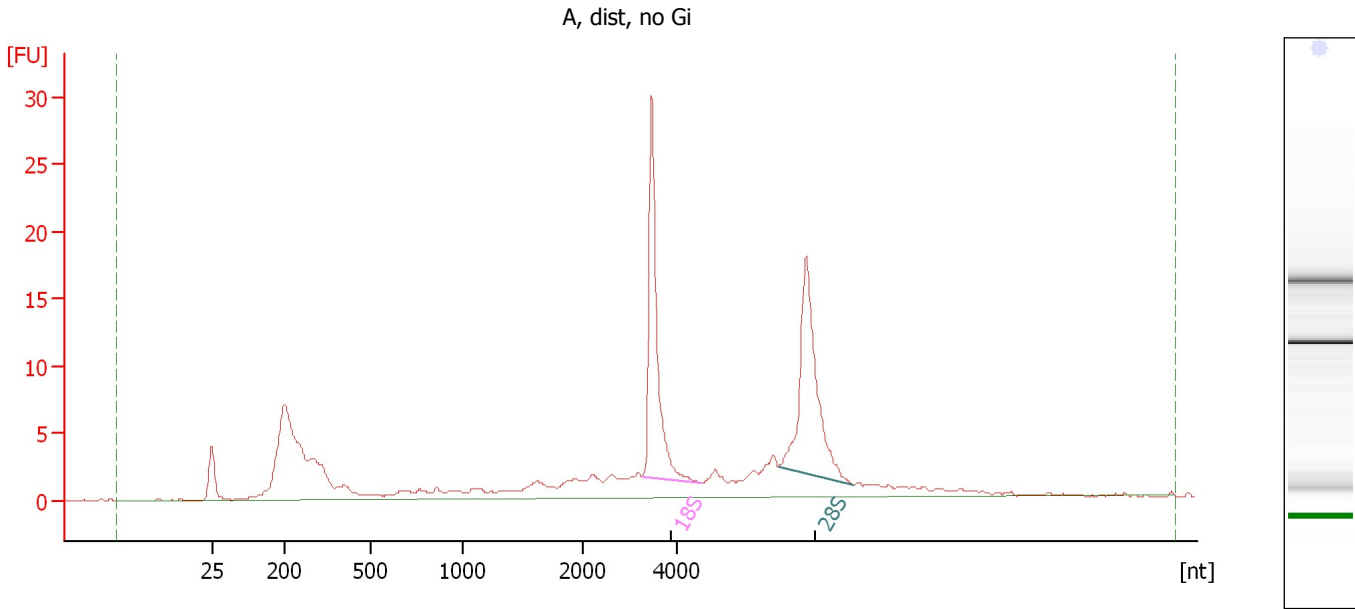
Fragment table for sample 11 : C, prox, no Gi

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,784	2,173	0.7	0.1
28S	4,959	5,184	0.2	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : A, dist, no Gi

RNA Area: 166.2 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 104 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN:8

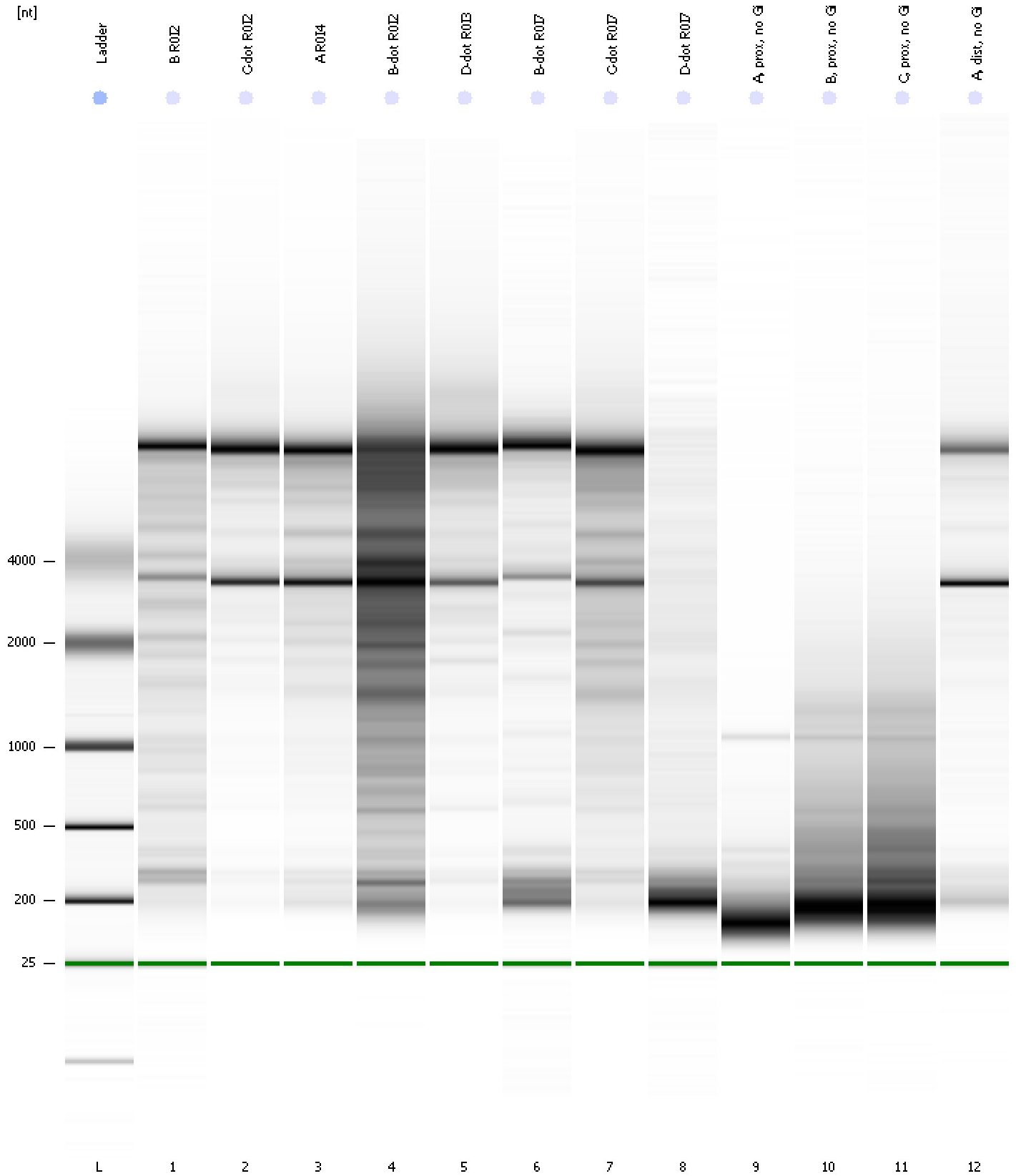
Fragment table for sample 12 : A, dist, no Gi

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,270	4,509	28.6	17.2
28S	6,130	7,684	27.6	16.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/11/2014 3:05:43 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
 Modified: 7/11/2014 3:05:43 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		7/10/2014 3:36:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad)		Instrument	Run		7/10/2014 3:13:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/10/2014 3:13:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/10/2014 3:13:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/10/2014 3:13:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/10/2014 3:13:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/10/2014 3:13:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/10/2014 3:13:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1