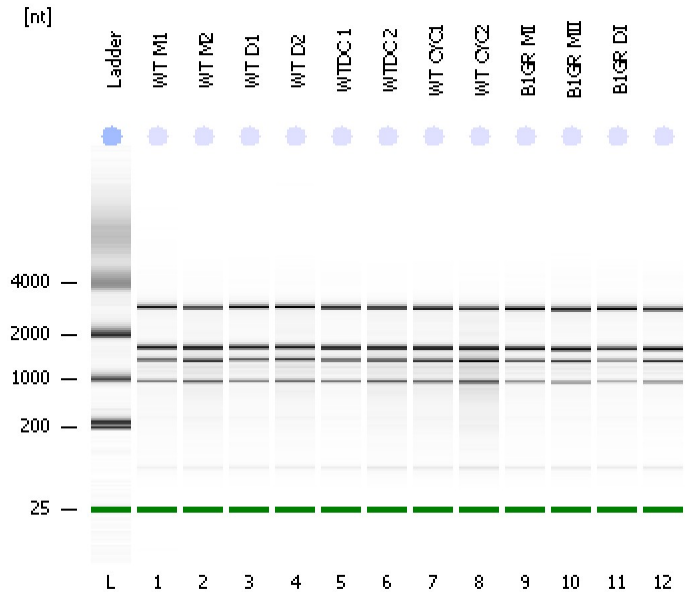


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
Modified: 6/14/2016 2:06:11 PM

Electrophoresis File Run Summary



Instrument Information:

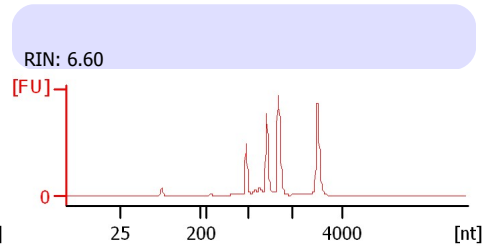
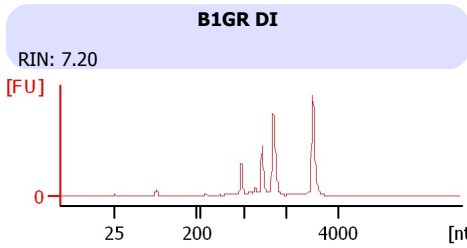
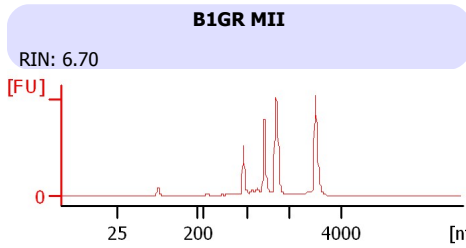
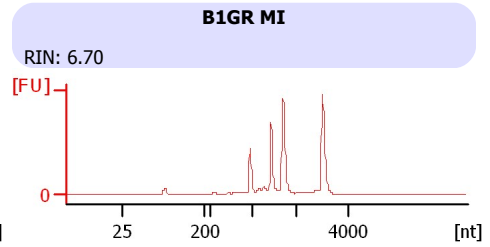
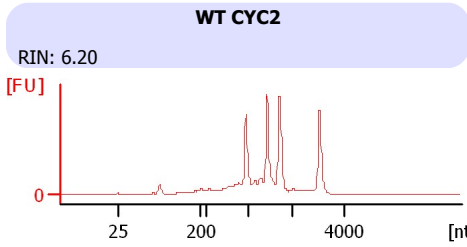
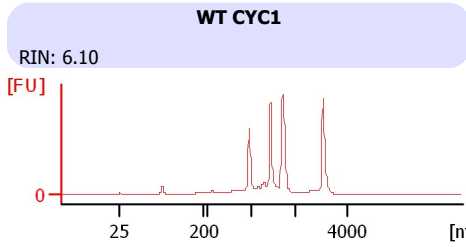
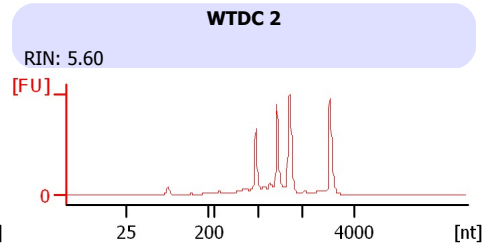
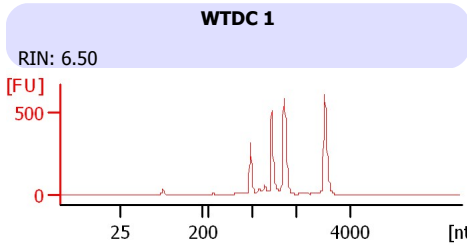
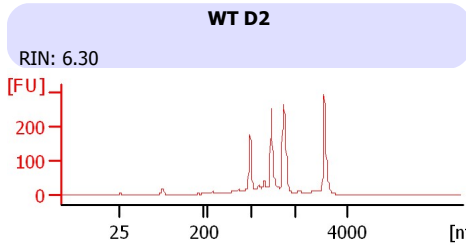
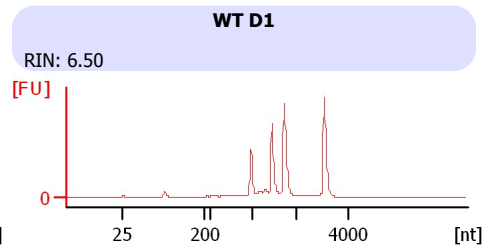
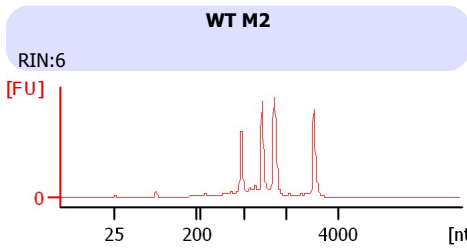
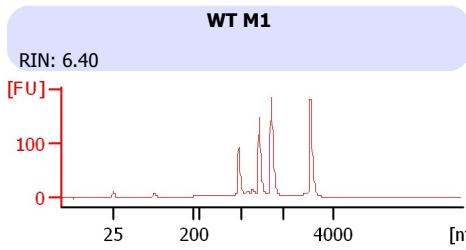
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
Modified: 6/14/2016 2:06:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
WT M1		✓	RIN: 6.40	
WT M2		✓	RIN:6	
WT D1		✓	RIN: 6.50	
WT D2		✓	RIN: 6.30	
WTDC 1		✓	RIN: 6.50	
WTDC 2		✓	RIN: 5.60	
WT CYC1		✓	RIN: 6.10	
WT CYC2		✓	RIN: 6.20	
B1GR MI		✓	RIN: 6.70	
B1GR MII		✓	RIN: 6.70	
B1GR DI		✓	RIN: 7.20	
		✓	RIN: 6.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
Modified: 6/14/2016 2:06:11 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

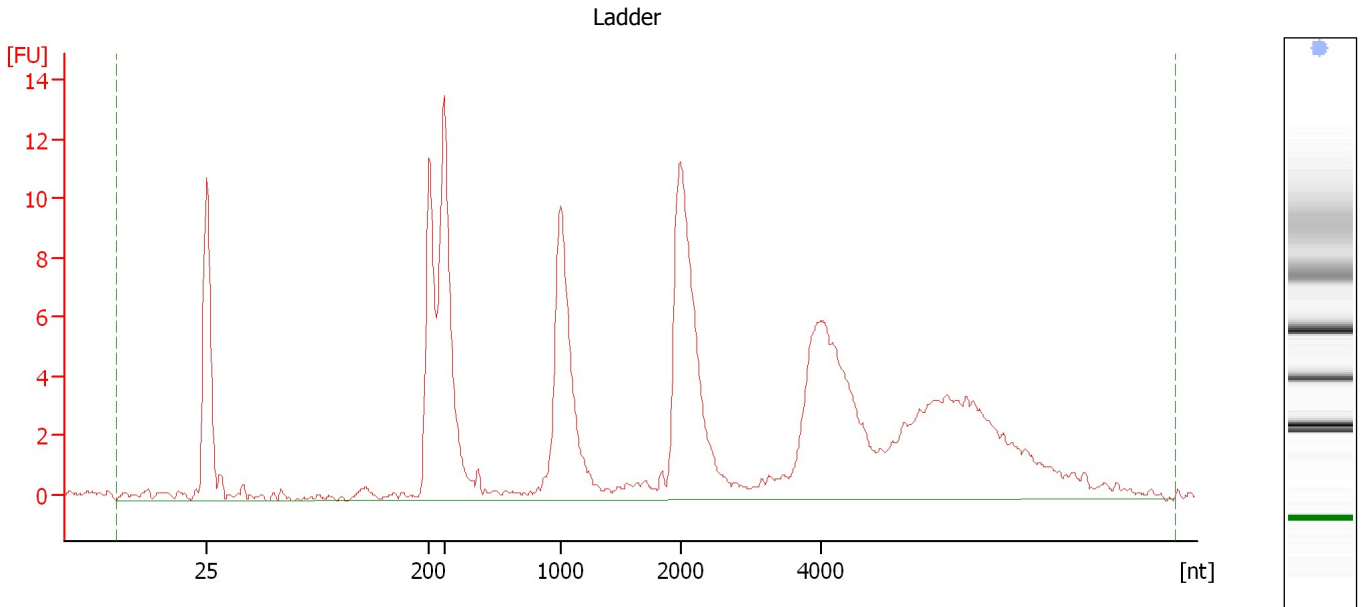
Ladder

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\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
Modified: 6/14/2016 2:06:11 PM

Electropherogram Summary



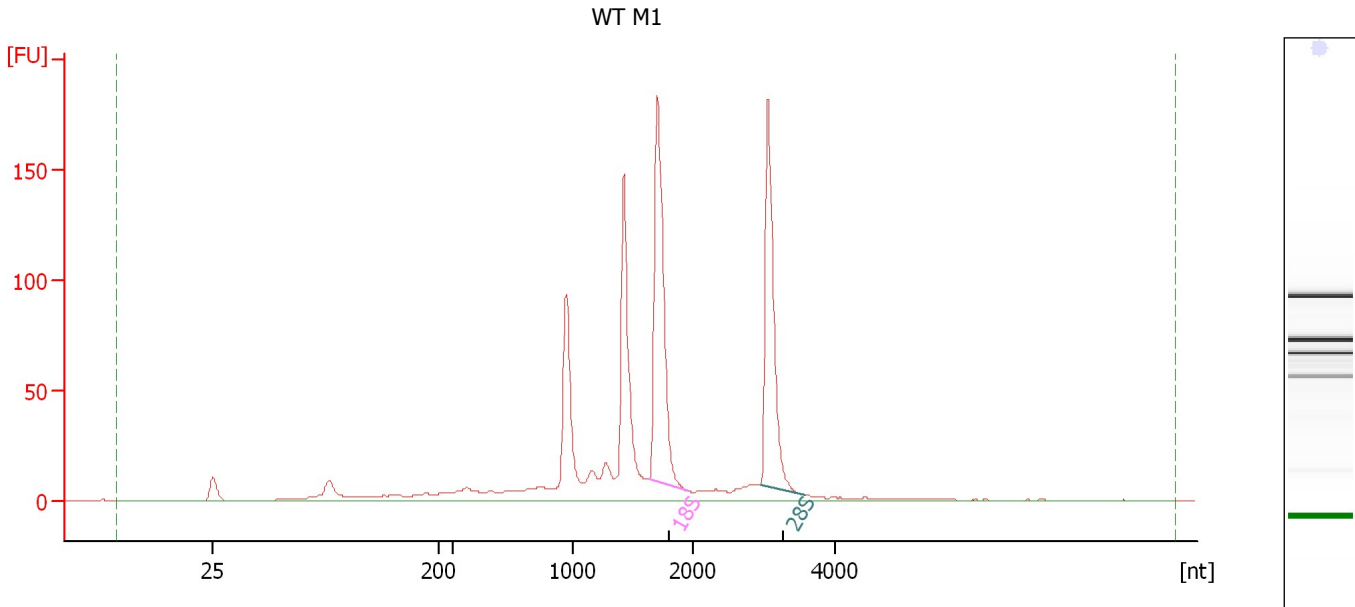
Overall Results for Ladder

RNA Area:	174.7	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\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
 Modified: 6/14/2016 2:06:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : WT M1

RNA Area:	875.1	RNA Integrity Number (RIN):	6.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	752 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 6.40

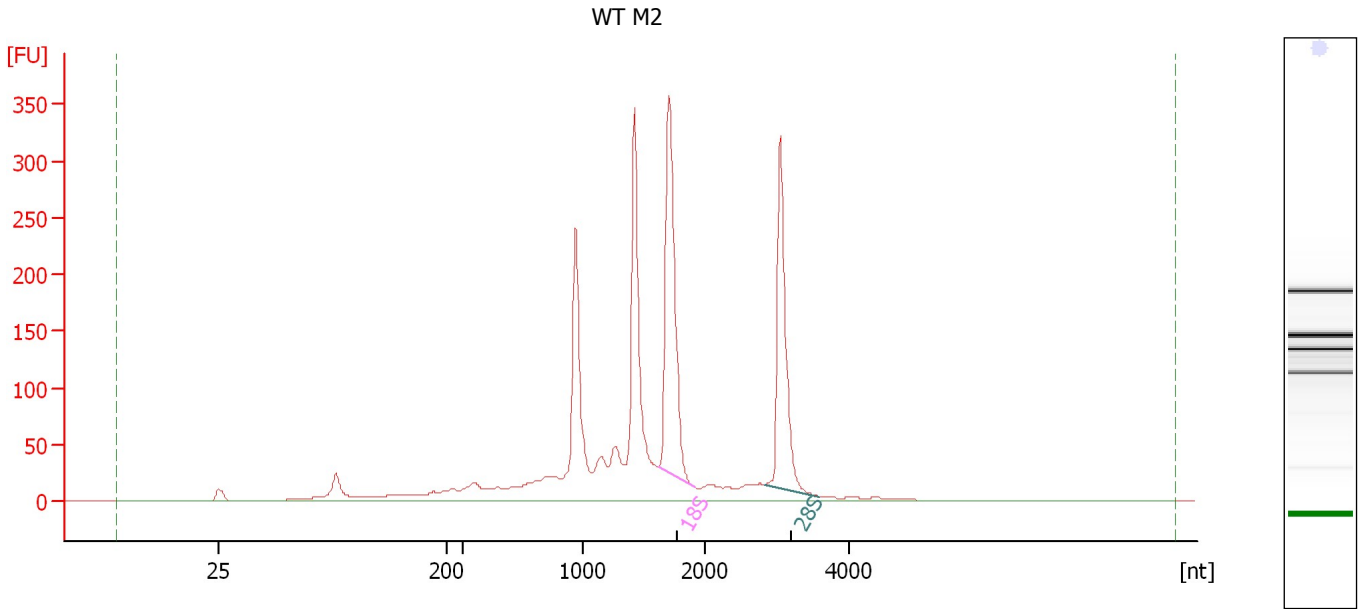
Fragment table for sample 1 : WT M1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,638	1,976	189.7	21.7
28S	2,955	3,588	153.5	17.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
 Modified: 6/14/2016 2:06:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : WT M2

RNA Area:	2,023.7	RNA Integrity Number (RIN):	6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,738 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN:6

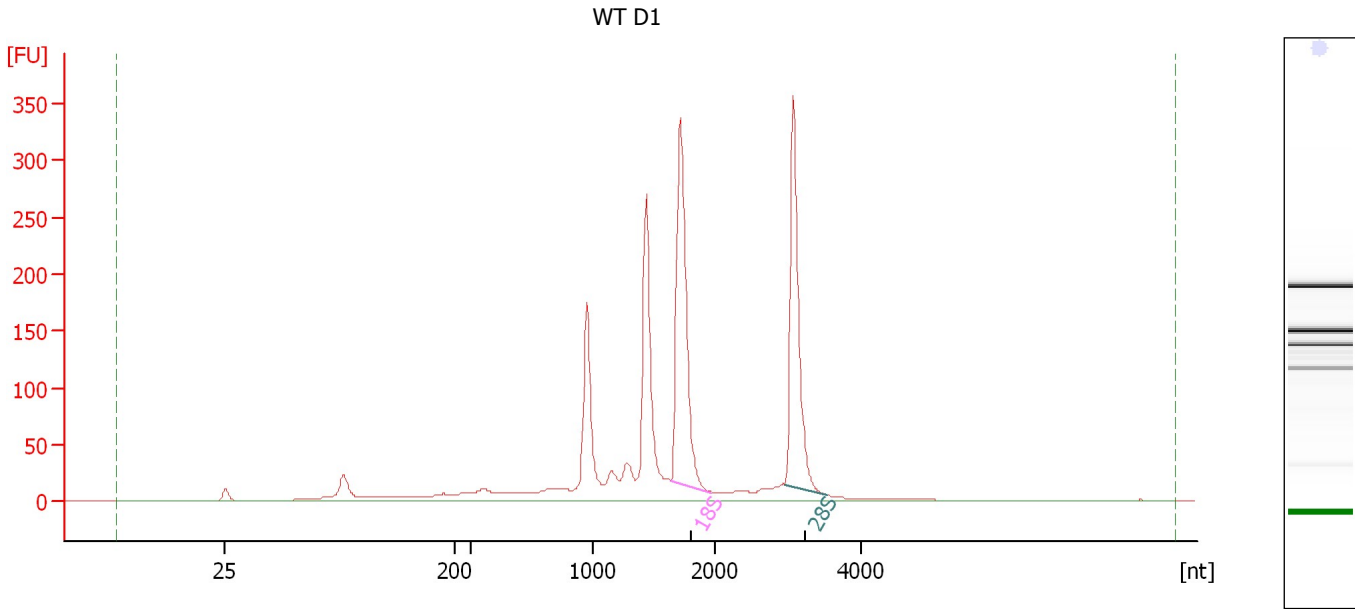
Fragment table for sample 2 : WT M2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,620	1,919	381.7	18.9
28S	2,830	3,590	276.5	13.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
Modified: 6/14/2016 2:06:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : WT D1

RNA Area:	1,638.4	RNA Integrity Number (RIN):	6.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,407 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 6.50

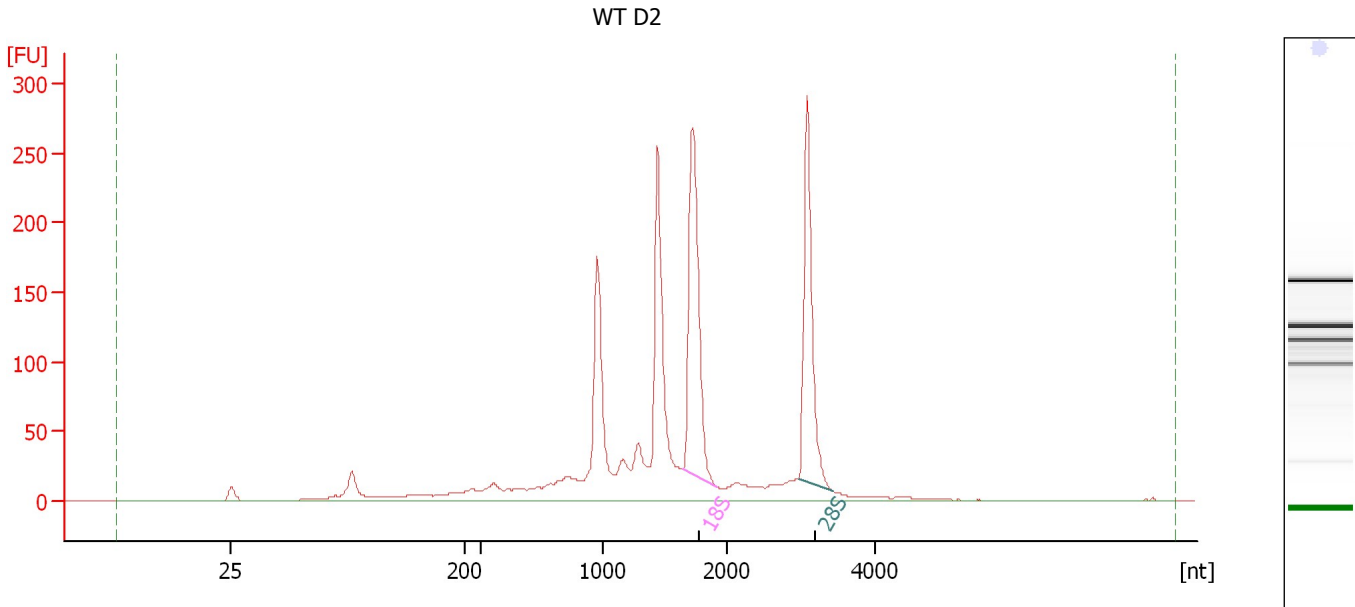
Fragment table for sample 3 : WT D1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,644	1,966	363.7	22.2
28S	2,974	3,534	305.9	18.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
 Modified: 6/14/2016 2:06:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : WT D2

RNA Area:	1,558.1	RNA Integrity Number (RIN):	6.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,338 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 6.30

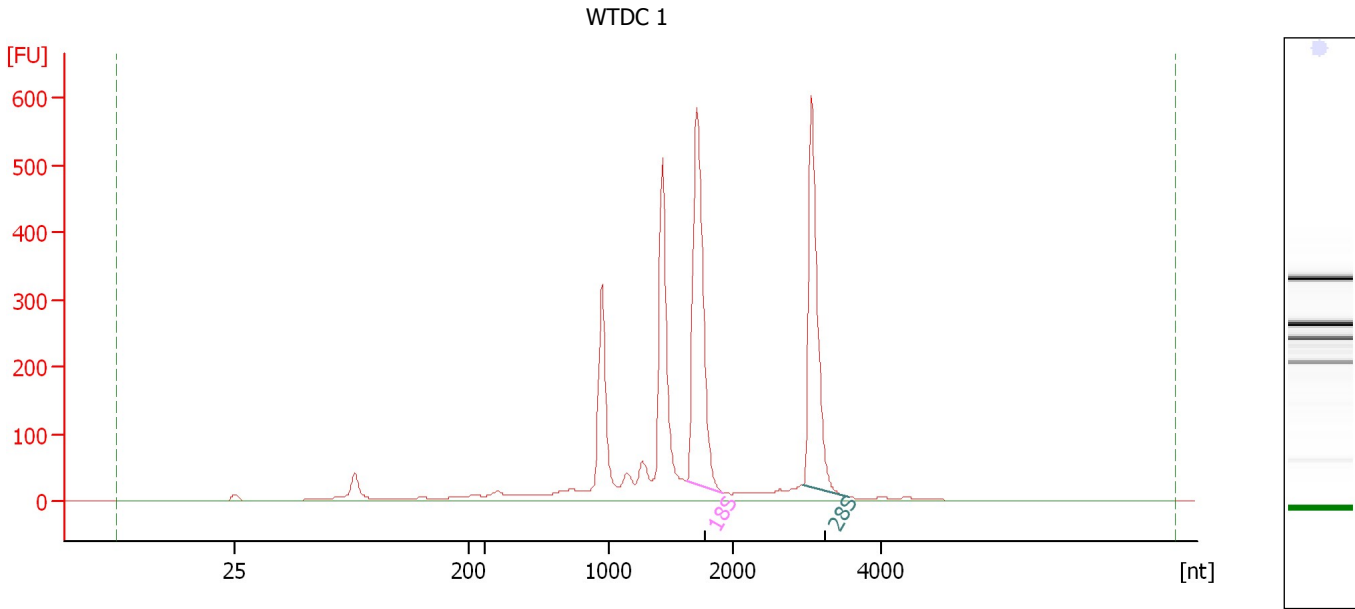
Fragment table for sample 4 : WT D2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	1,918	278.9	17.9
28S	2,982	3,448	229.9	14.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
Modified: 6/14/2016 2:06:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : WTDC 1

RNA Area:	2,785.1	RNA Integrity Number (RIN):	6.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,392 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 6.50

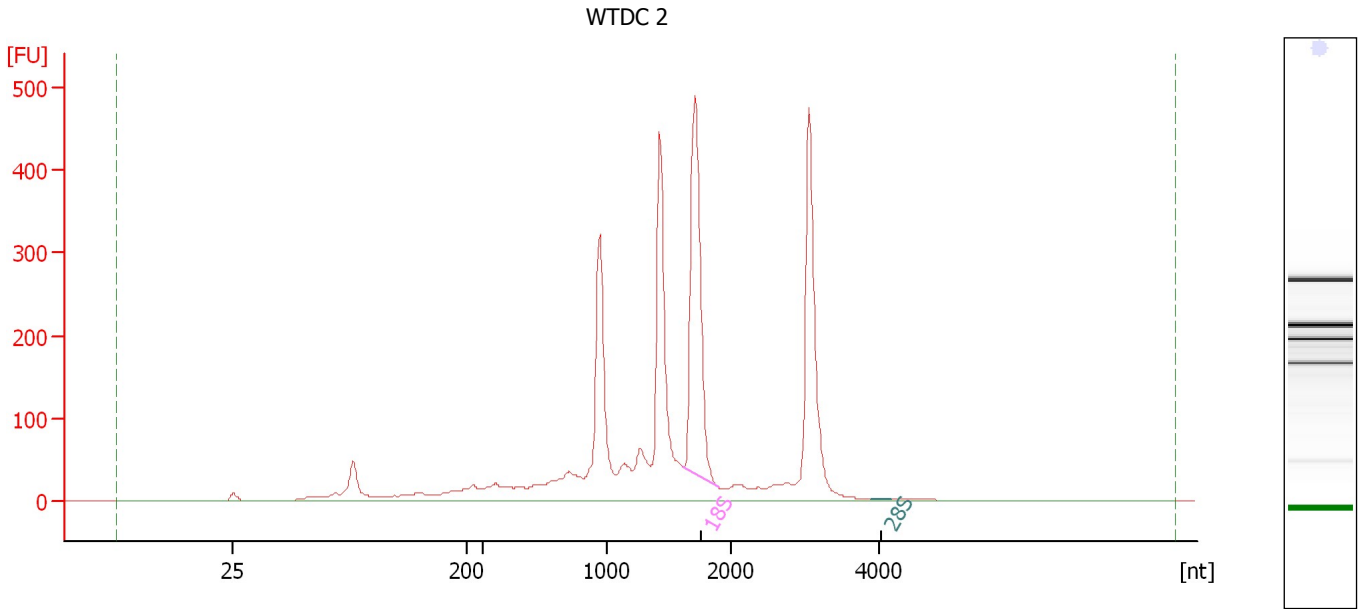
Fragment table for sample 5 : WTDC 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,630	1,920	658.9	23.7
28S	2,936	3,573	539.2	19.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
 Modified: 6/14/2016 2:06:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : WTDC 2

RNA Area:	2,808.5	RNA Integrity Number (RIN):	5.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,412 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.60

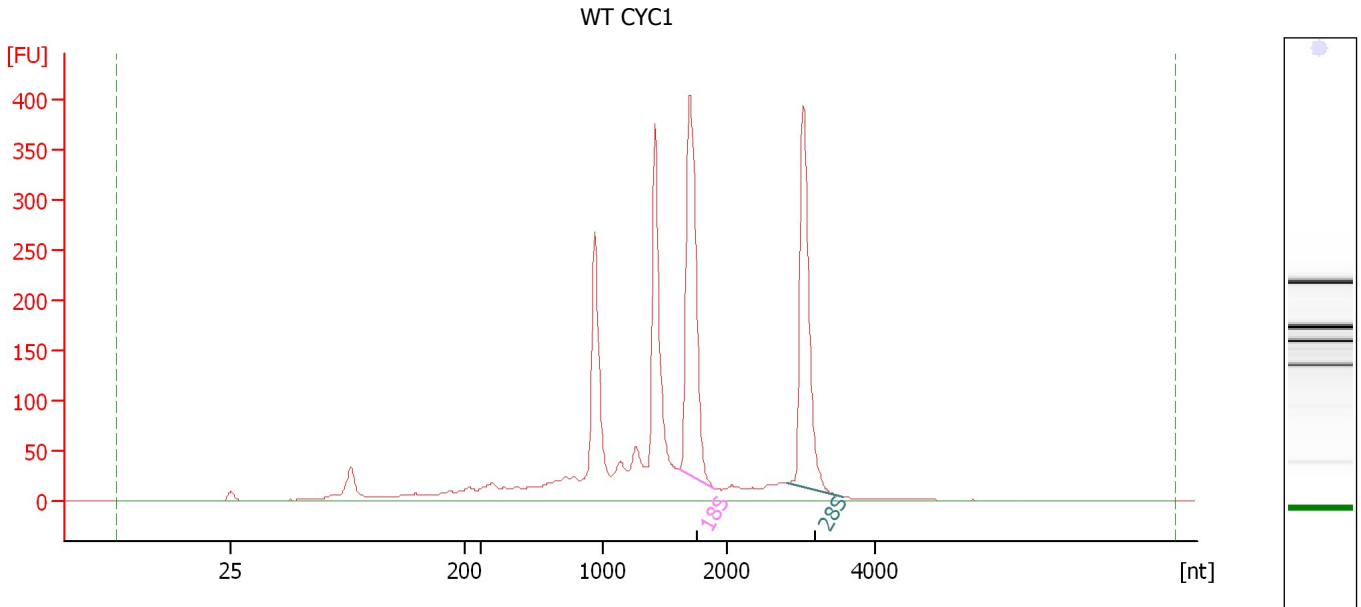
Fragment table for sample 6 : WTDC 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,894	515.0	18.3
28S	3,894	4,155	0.4	0.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
 Modified: 6/14/2016 2:06:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : WT CYC1

RNA Area:	2,278.4	RNA Integrity Number (RIN):	6.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,957 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 6.10

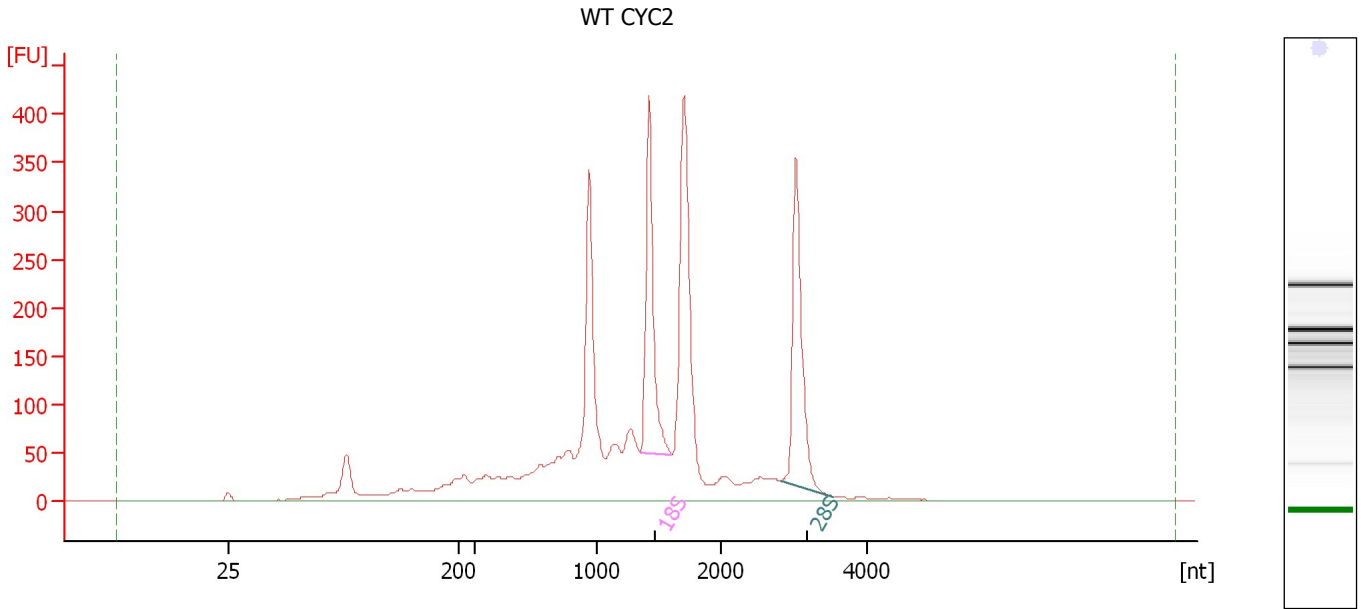
Fragment table for sample 7 : WT CYC1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,609	1,901	436.5	19.2
28S	2,808	3,579	356.3	15.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
Modified: 6/14/2016 2:06:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : WT CYC2

RNA Area:	2,964.5	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	2,546 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 6.20

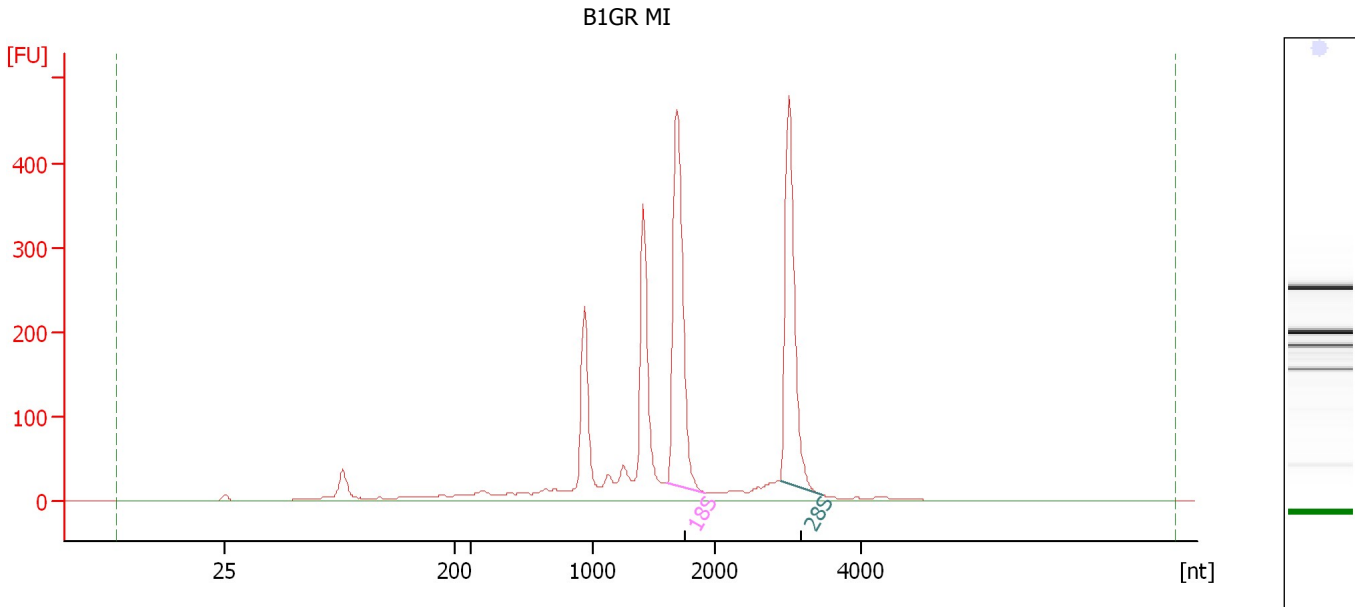
Fragment table for sample 8 : WT CYC2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,345	1,596	320.0	10.8
28S	2,810	3,542	332.8	11.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
 Modified: 6/14/2016 2:06:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : B1GR MI

RNA Area:	2,180.4	RNA Integrity Number (RIN):	6.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,873 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 6.70

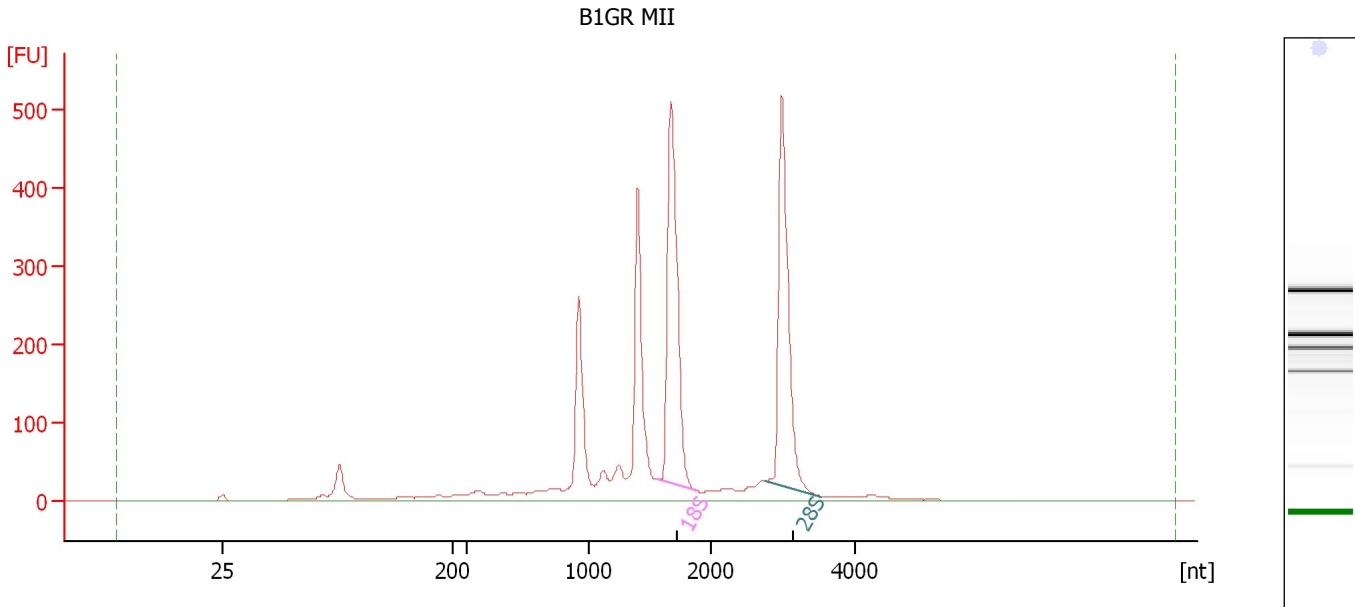
Fragment table for sample 9 : B1GR MI

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,609	1,914	502.2	23.0
28S	2,900	3,475	440.4	20.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
 Modified: 6/14/2016 2:06:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : B1GR MII

RNA Area:	2,525.9	RNA Integrity Number (RIN):	6.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,169 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 6.70

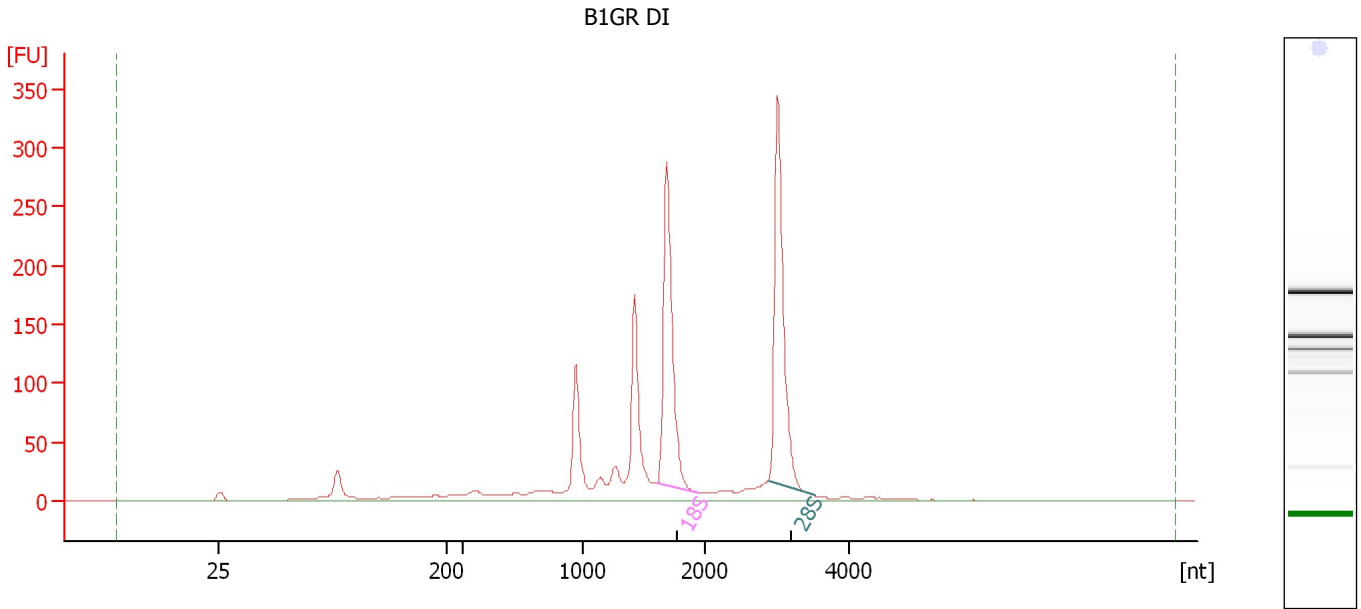
Fragment table for sample 10 : B1GR MII

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,554	1,895	578.6	22.9
28S	2,754	3,509	508.0	20.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
 Modified: 6/14/2016 2:06:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : B1GR DI

RNA Area:	1,374.8	RNA Integrity Number (RIN):	7.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,181 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.20

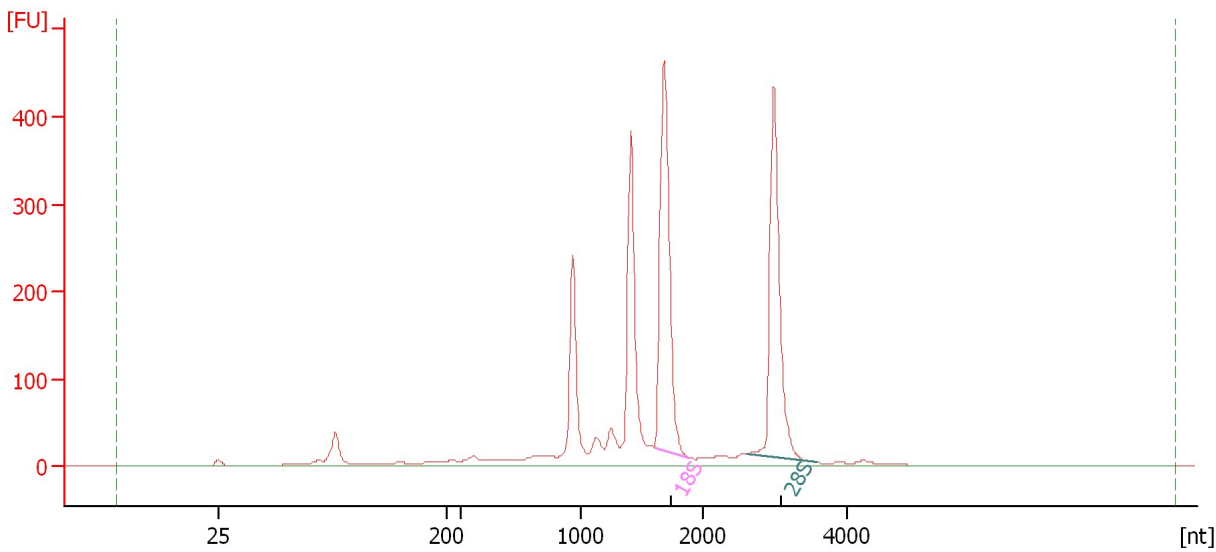
Fragment table for sample 11 : B1GR DI

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,954	295.7	21.5
28S	2,890	3,530	320.4	23.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
 Modified: 6/14/2016 2:06:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 :

RNA Area:	2,115.9	RNA Integrity Number (RIN):	6.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,817 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 6.60

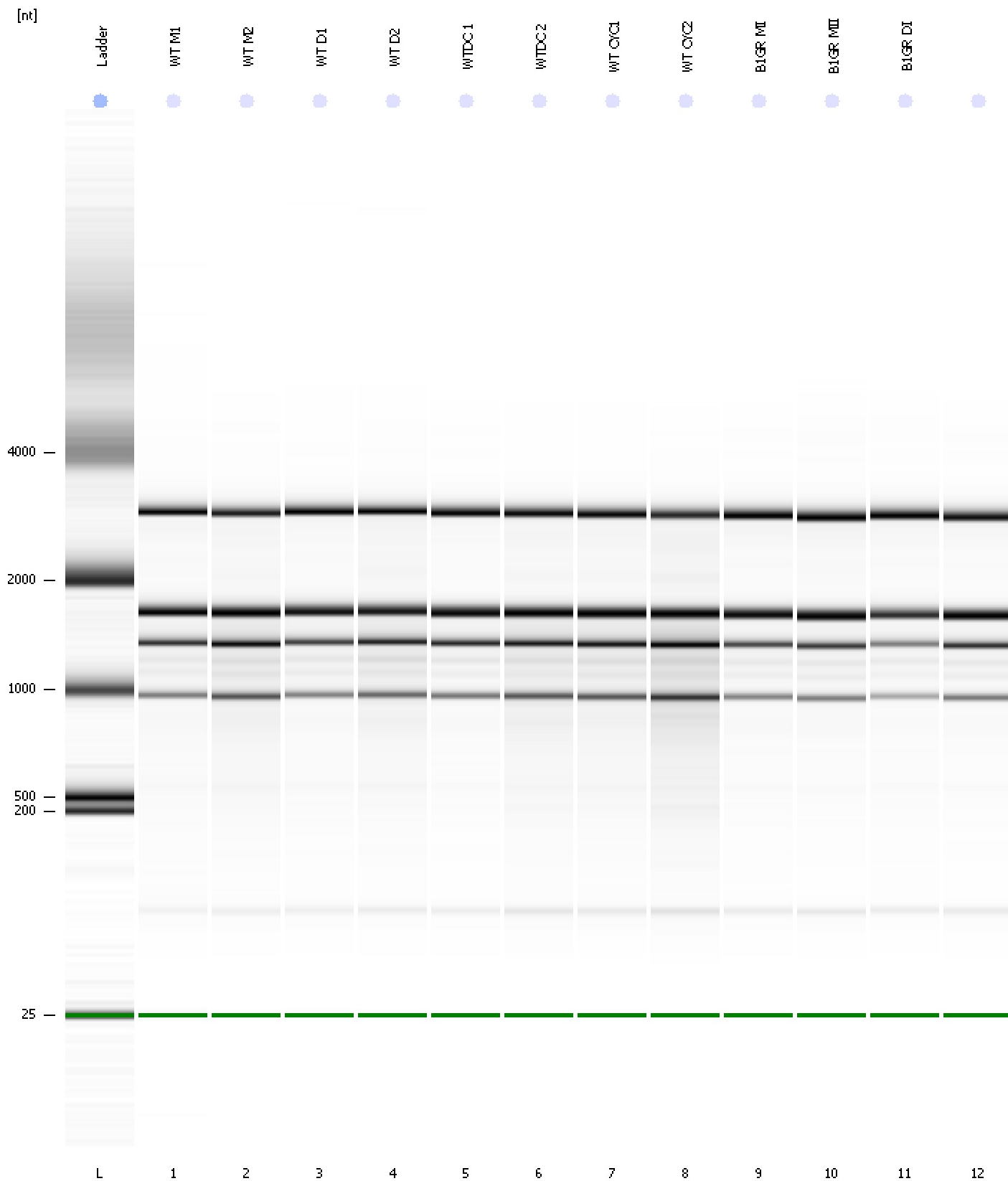
Fragment table for sample 12 :

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,601	1,891	497.5	23.5
28S	2,607	3,592	437.0	20.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
Modified: 6/14/2016 2:06:11 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_004.xad

Created: 6/14/2016 1:37:54 PM
 Modified: 6/14/2016 2:06:11 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		6/14/2016 2:01:44 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\2016-06-14\2016-06-14_004.xad)		Instrument	Run		6/14/2016 1:38:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/14/2016 1:38:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/14/2016 1:38:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/14/2016 1:38:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/14/2016 1:38:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/14/2016 1:38:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/14/2016 1:38:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1