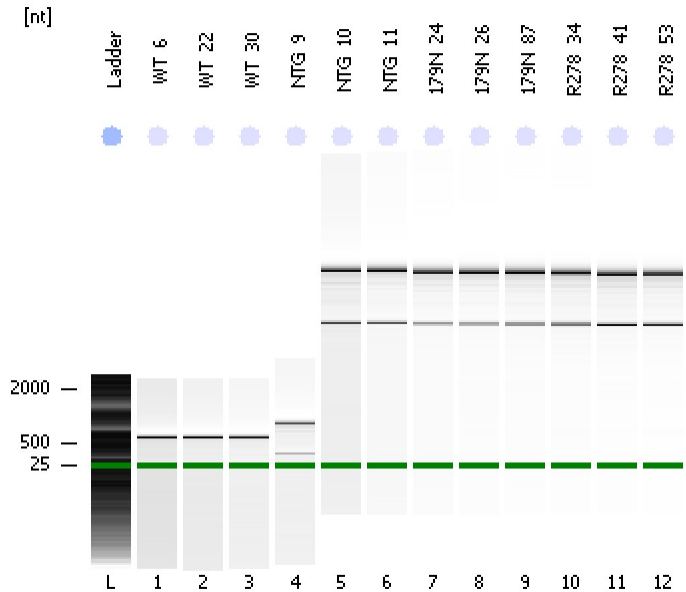


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
Modified: 7/3/2012 9:41:45 AM

Electrophoresis File Run Summary



Instrument Information:

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

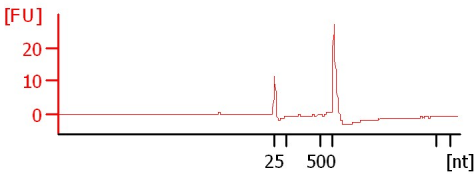
Assay Information:

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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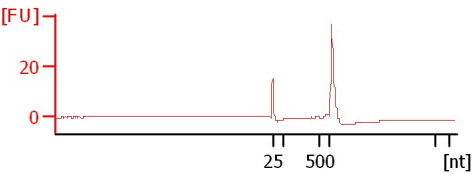
Chip Information:

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

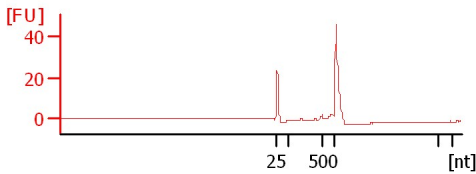
WT_6
RIN: 2.60



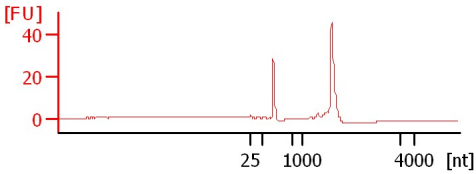
WT_22
RIN: 2.60



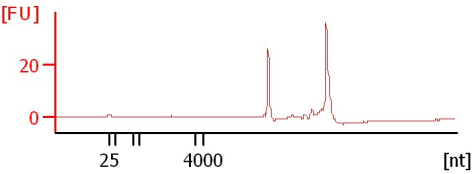
WT_30
RIN: 2.60



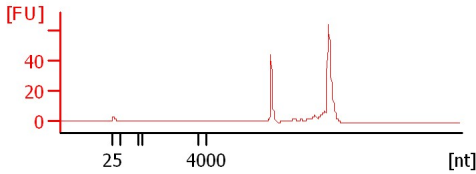
NTG_9
RIN: 8.20



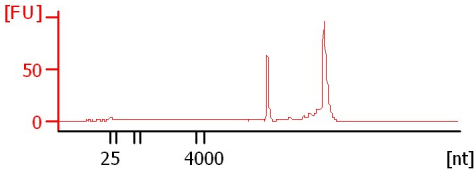
NTG_10
RIN: 8.10



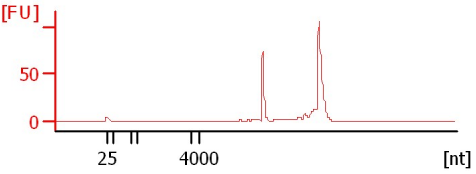
NTG_11
RIN: 9.10



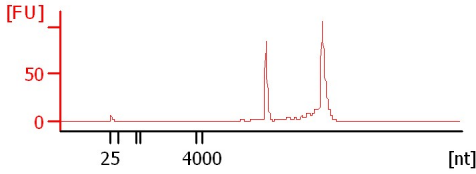
179N_24
RIN: 9.40



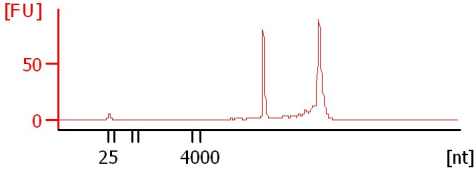
179N_26
RIN: 9.60



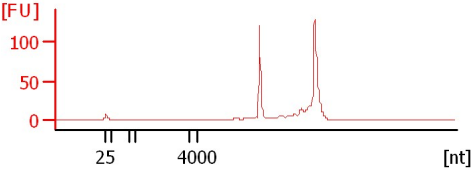
179N_87
RIN: 9.60



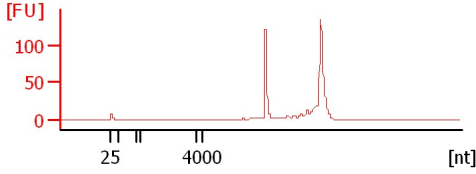
R278_34
RIN: 9.40



R278_41
RIN: 9.30



R278_53
RIN: 9.60



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
Modified: 7/3/2012 9:41:45 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
WT_6		✓	RIN: 2.60	
WT_22		✓	RIN: 2.60	
WT_30		✓	RIN: 2.60	
NTG_9		✓	RIN: 8.20	
NTG_10		✓	RIN: 8.10	
NTG_11		✓	RIN: 9.10	
179N_24		✓	RIN: 9.40	
179N_26		✓	RIN: 9.60	
179N_87		✓	RIN: 9.60	
R278_34		✓	RIN: 9.40	
R278_41		✓	RIN: 9.30	
R278_53		✓	RIN: 9.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
Modified: 7/3/2012 9:41:45 AM

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] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

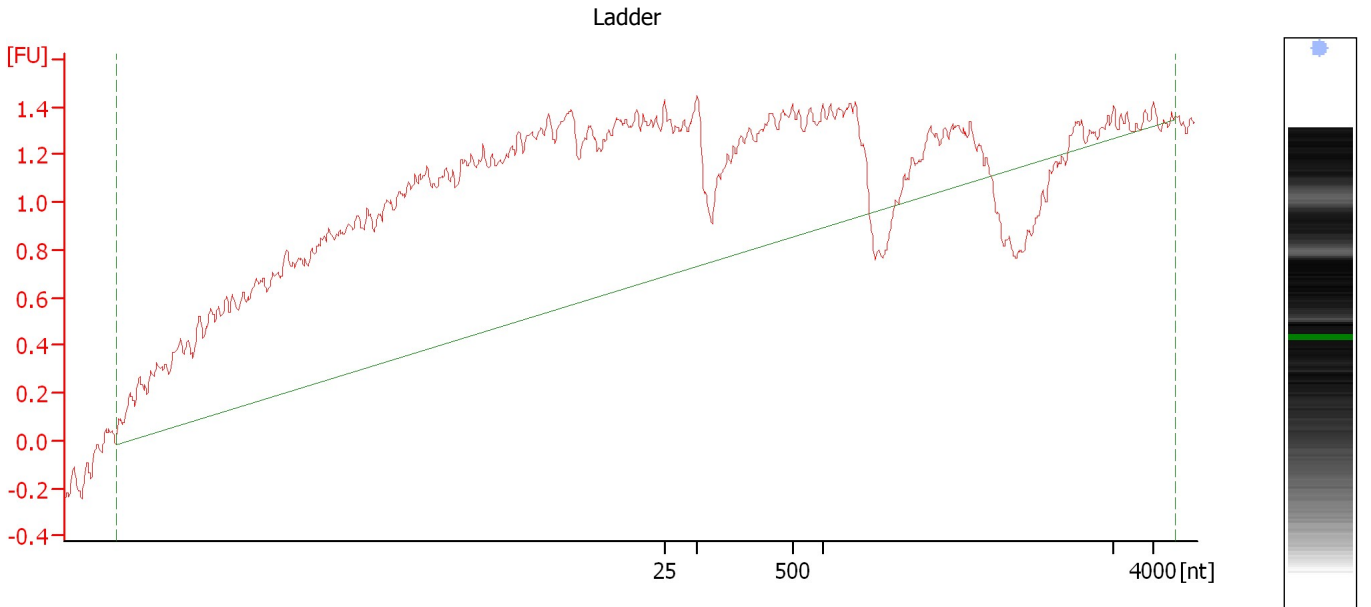
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
Modified: 7/3/2012 9:41:45 AM

Electropherogram Summary



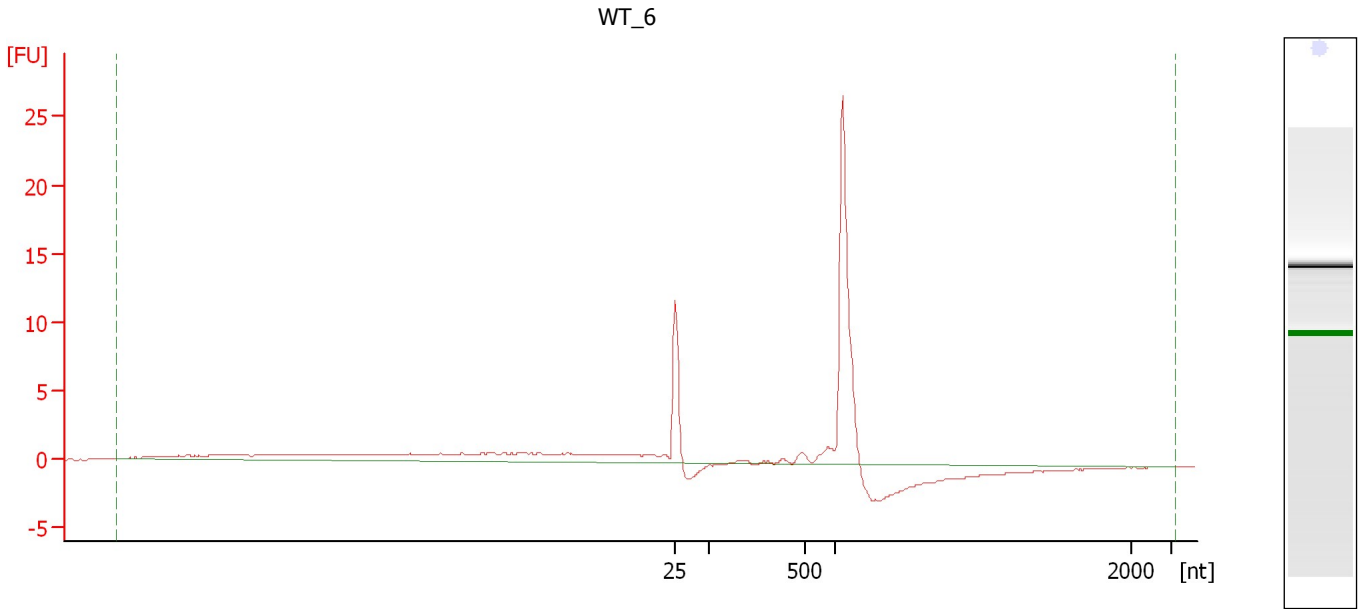
Overall Results for Ladder

RNA Area:	55.3	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
Modified: 7/3/2012 9:41:45 AM

Electropherogram Summary Continued ...



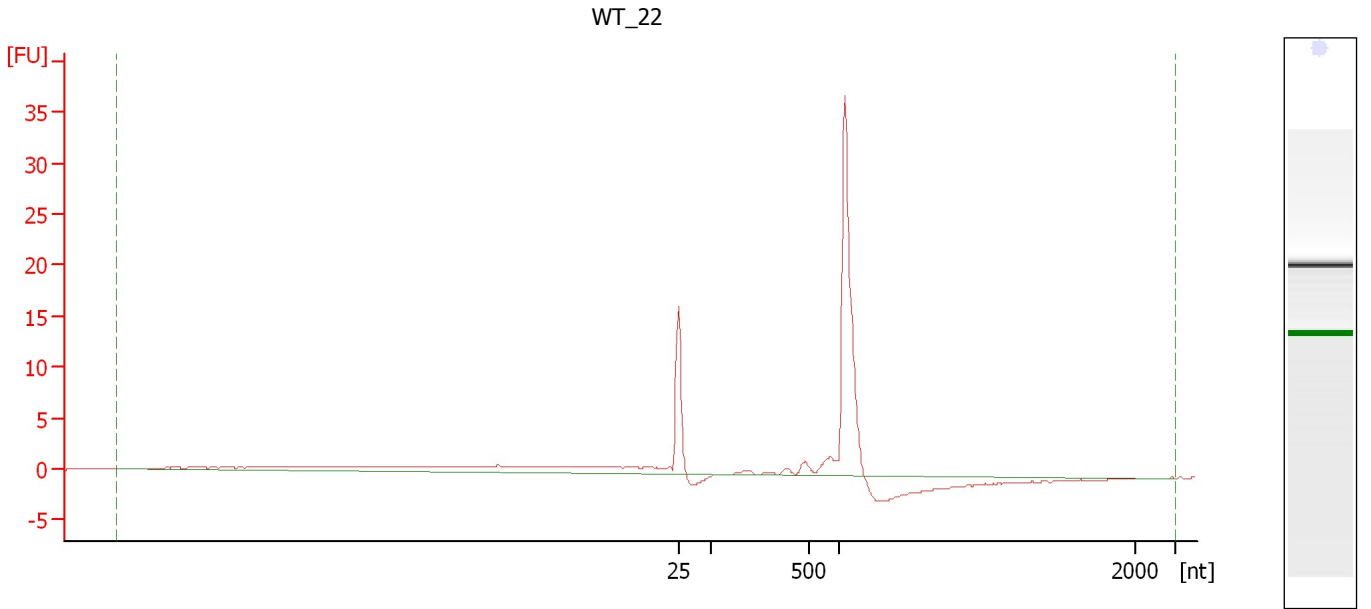
Overall Results for sample 1 : WT_6

RNA Area:	62.4	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	169 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
Modified: 7/3/2012 9:41:45 AM

Electropherogram Summary Continued ...



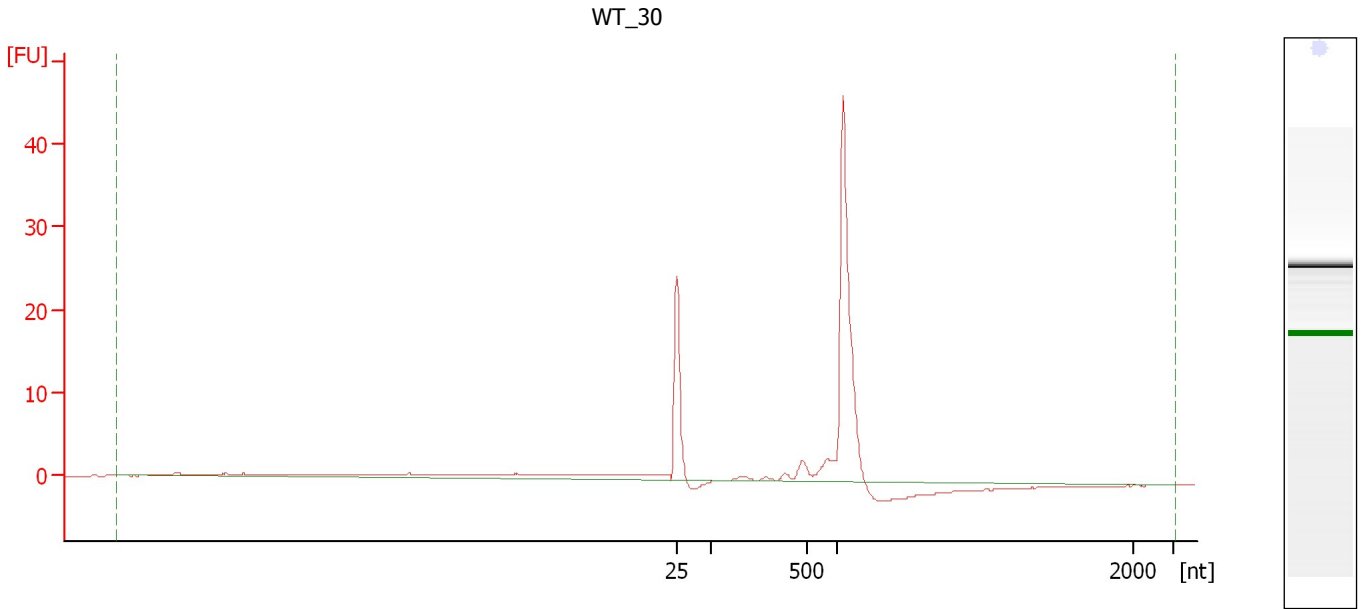
Overall Results for sample 2 : WT_22

RNA Area:	70.2	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	191 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
Modified: 7/3/2012 9:41:45 AM

Electropherogram Summary Continued ...



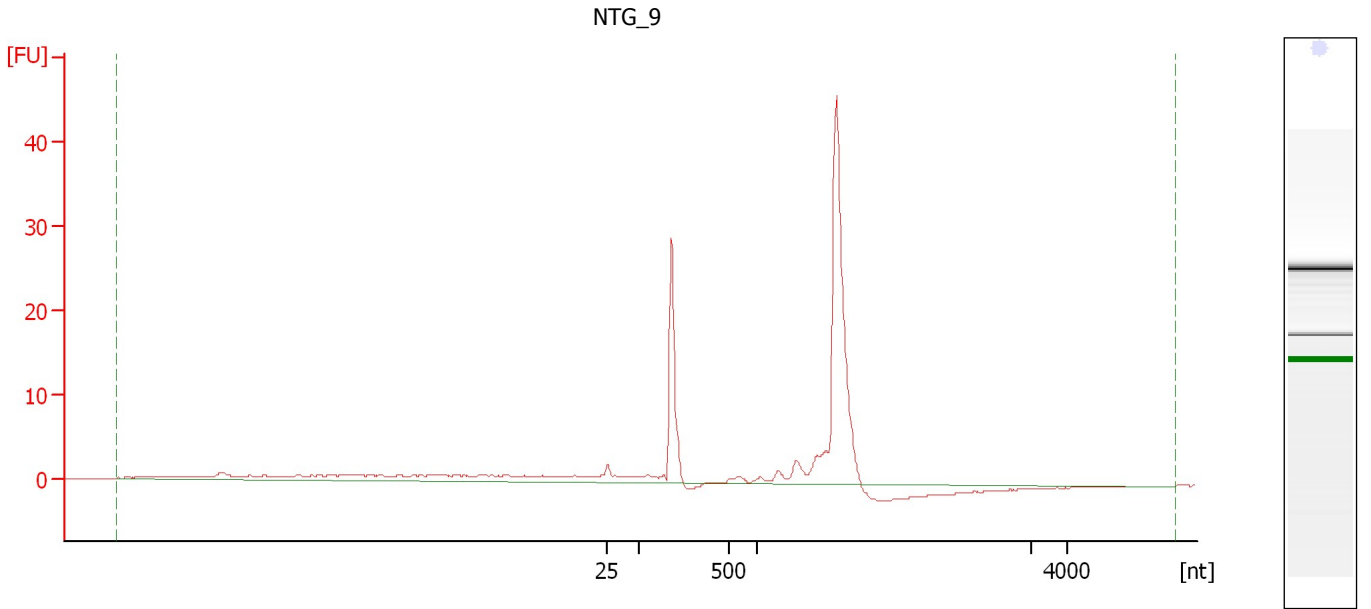
Overall Results for sample 3 : WT_30

RNA Area:	81.9	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	222 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
Modified: 7/3/2012 9:41:45 AM

Electropherogram Summary Continued ...



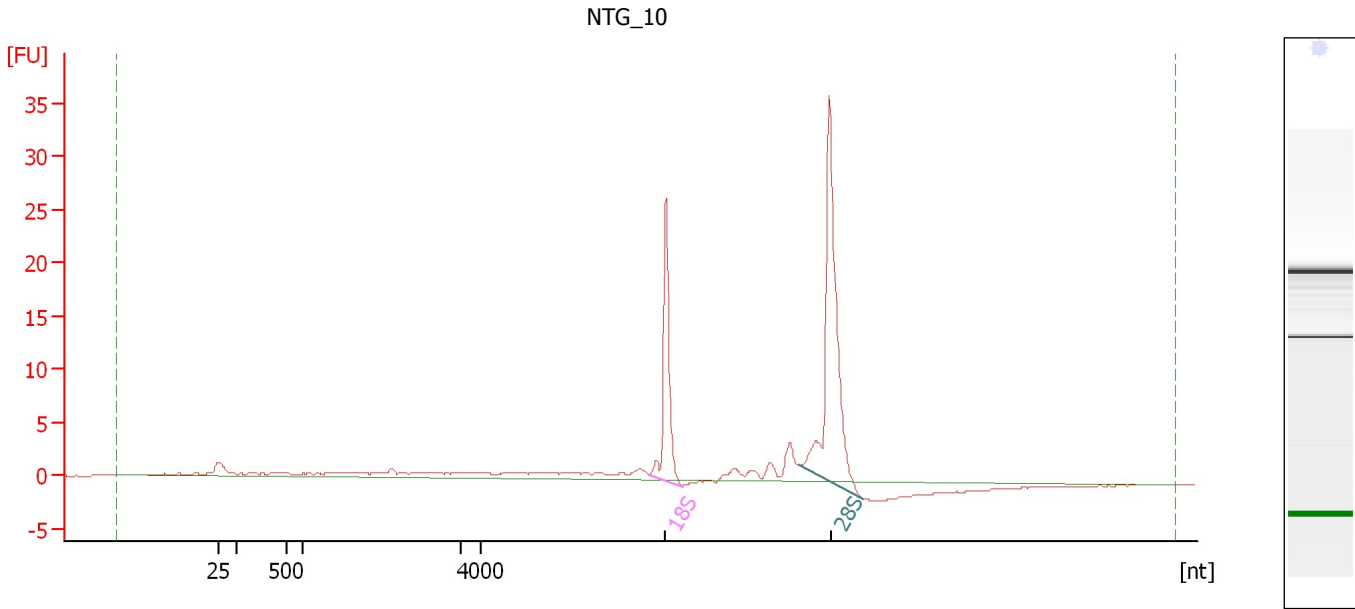
Overall Results for sample 4 : NTG_9

RNA Area:	113.5	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	308 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 8.20

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
 Modified: 7/3/2012 9:41:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : NTG_10

RNA Area:	97.2	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	264 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 8.10

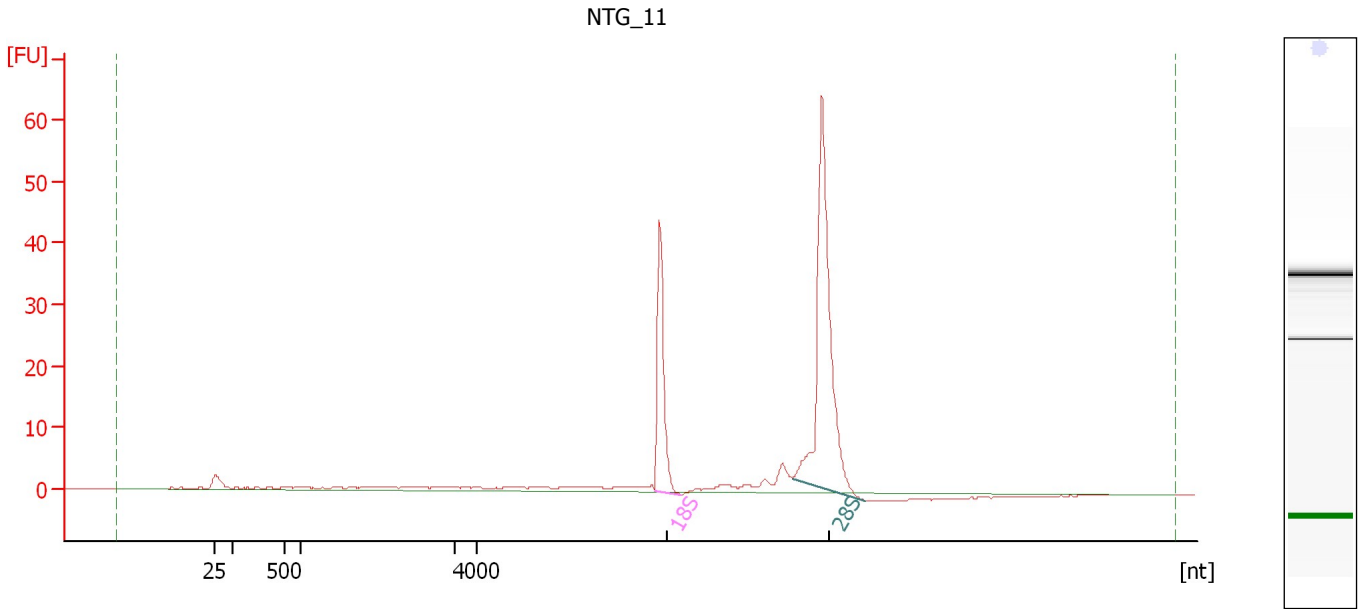
Fragment table for sample 5 : NTG_10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	19,756	22,873	19.1	19.7
28S	33,830	39,963	40.5	41.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
Modified: 7/3/2012 9:41:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : NTG_11

RNA Area:	157.9	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	429 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.6	Result Flagging Label:	RIN: 9.10

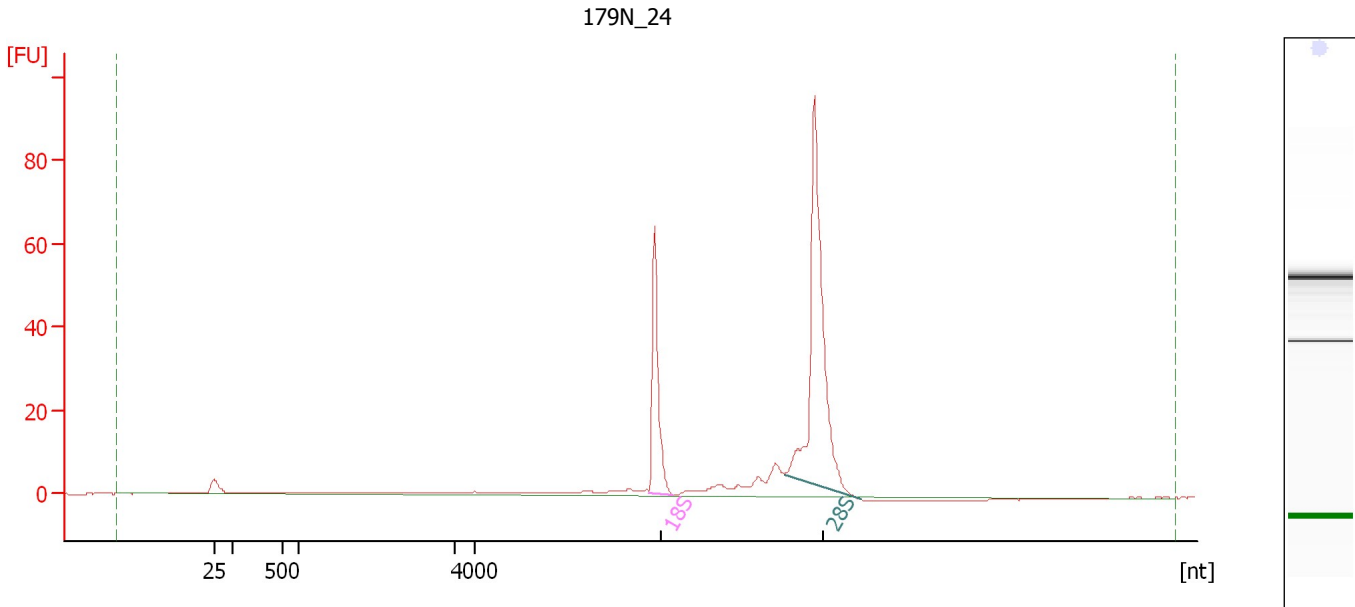
Fragment table for sample 6 : NTG_11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	20,818	23,245	31.3	19.8
28S	33,867	40,745	80.2	50.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
 Modified: 7/3/2012 9:41:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 179N_24

RNA Area:	242.2	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	658 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN: 9.40

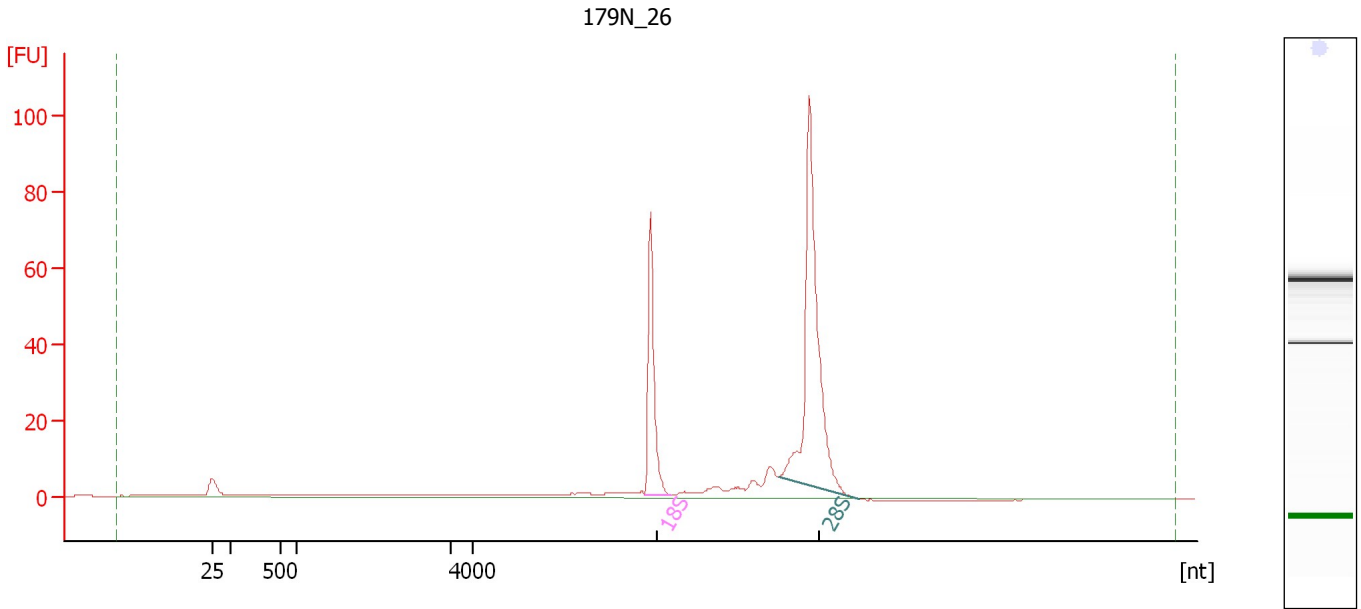
Fragment table for sample 7 : 179N_24

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	20,498	22,830	46.5	19.2
28S	33,372	40,670	115.5	47.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
Modified: 7/3/2012 9:41:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 179N_26

RNA Area:	262.8	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	713 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN: 9.60

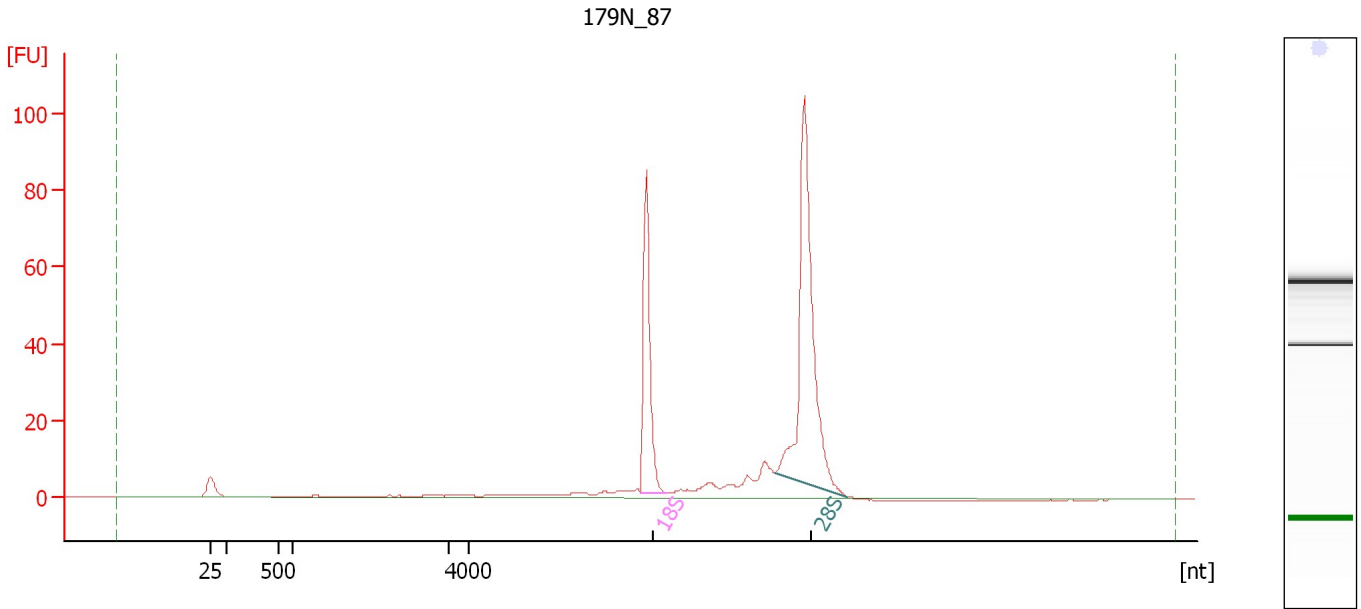
Fragment table for sample 8 : 179N_26

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	20,467	23,012	54.8	20.8
28S	33,293	40,927	129.7	49.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
Modified: 7/3/2012 9:41:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 179N_87

RNA Area:	293.1	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	796 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.60

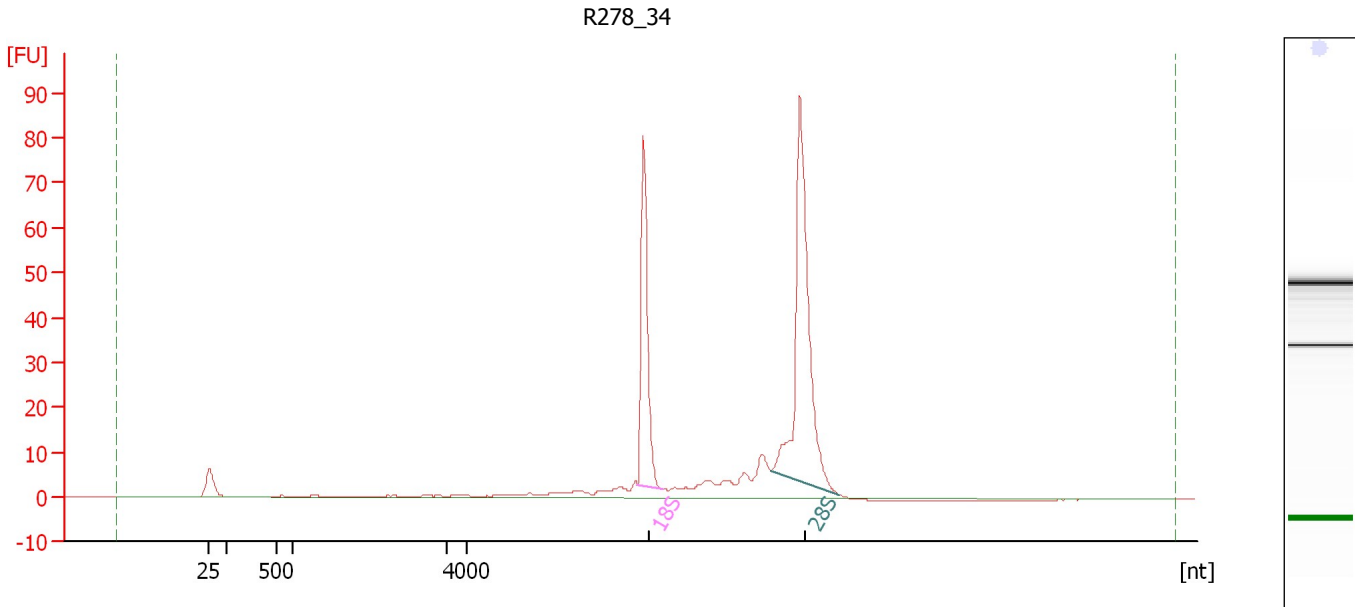
Fragment table for sample 9 : 179N_87

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	20,436	22,991	62.4	21.3
28S	33,213	40,163	132.8	45.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
 Modified: 7/3/2012 9:41:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : R278_34

RNA Area:	270.0	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	733 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.40

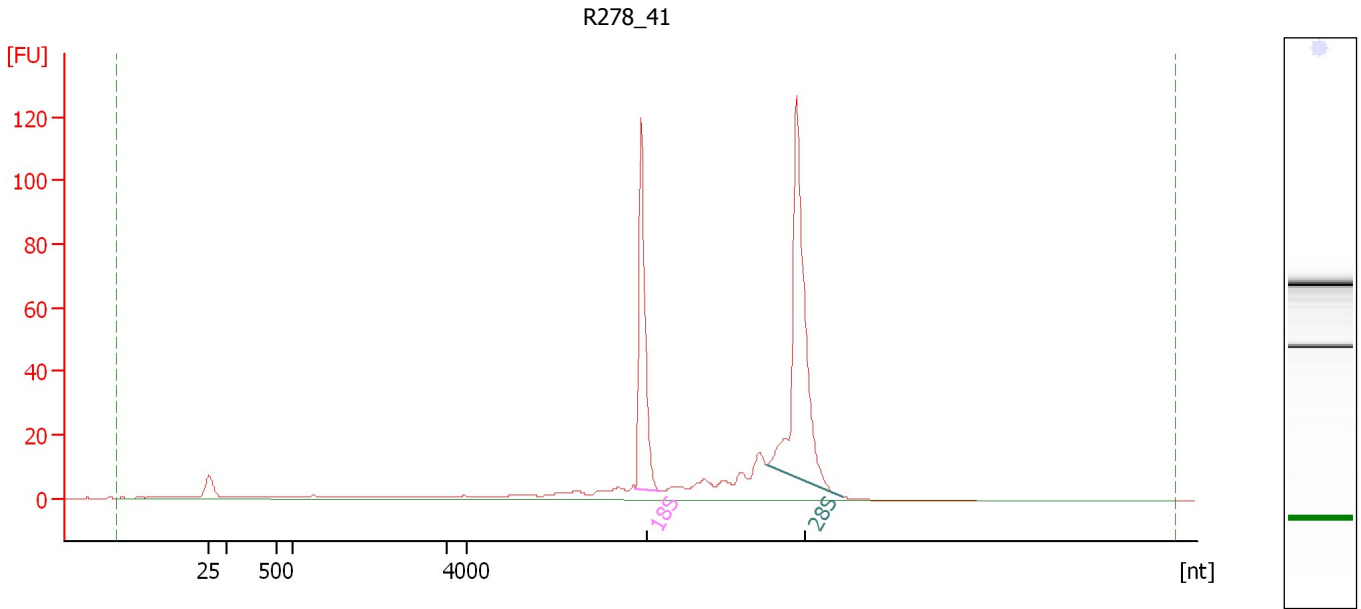
Fragment table for sample 10 : R278_34

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	20,317	22,673	57.4	21.3
28S	33,121	39,677	112.2	41.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
 Modified: 7/3/2012 9:41:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : R278_41

RNA Area:	401.4	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	1,090 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.30

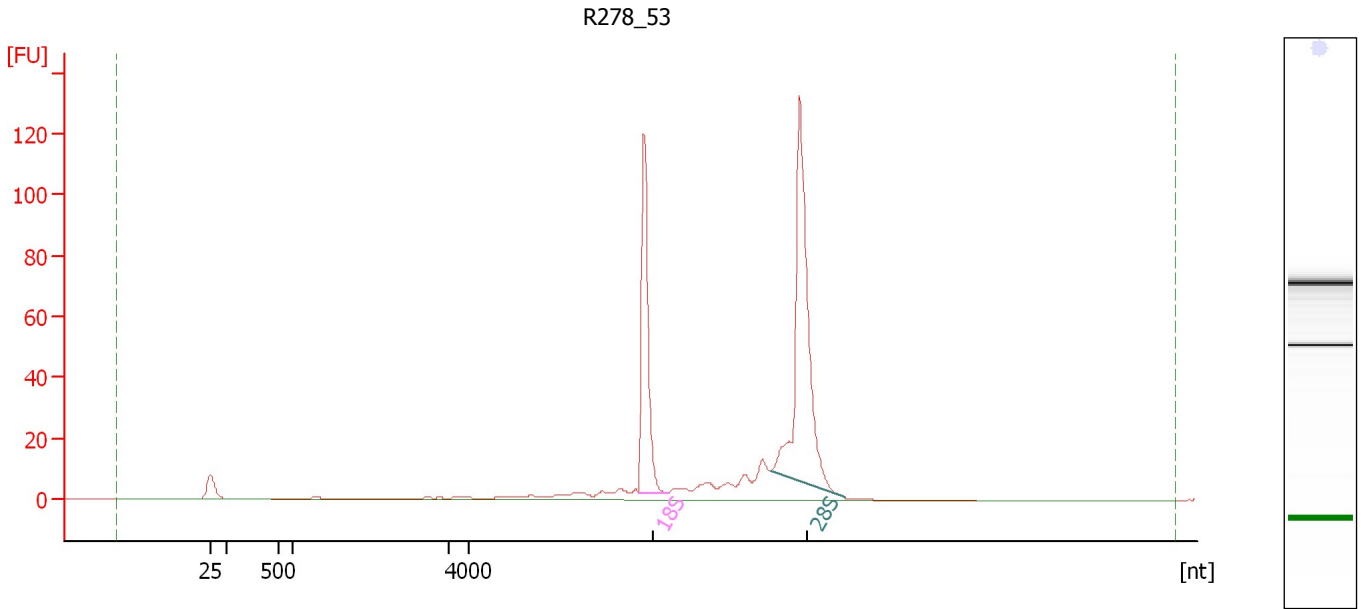
Fragment table for sample 11 : R278_41

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	20,112	22,571	86.4	21.5
28S	32,711	39,984	154.1	38.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
 Modified: 7/3/2012 9:41:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : R278 53

RNA Area:	381.2	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	1,035 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.60

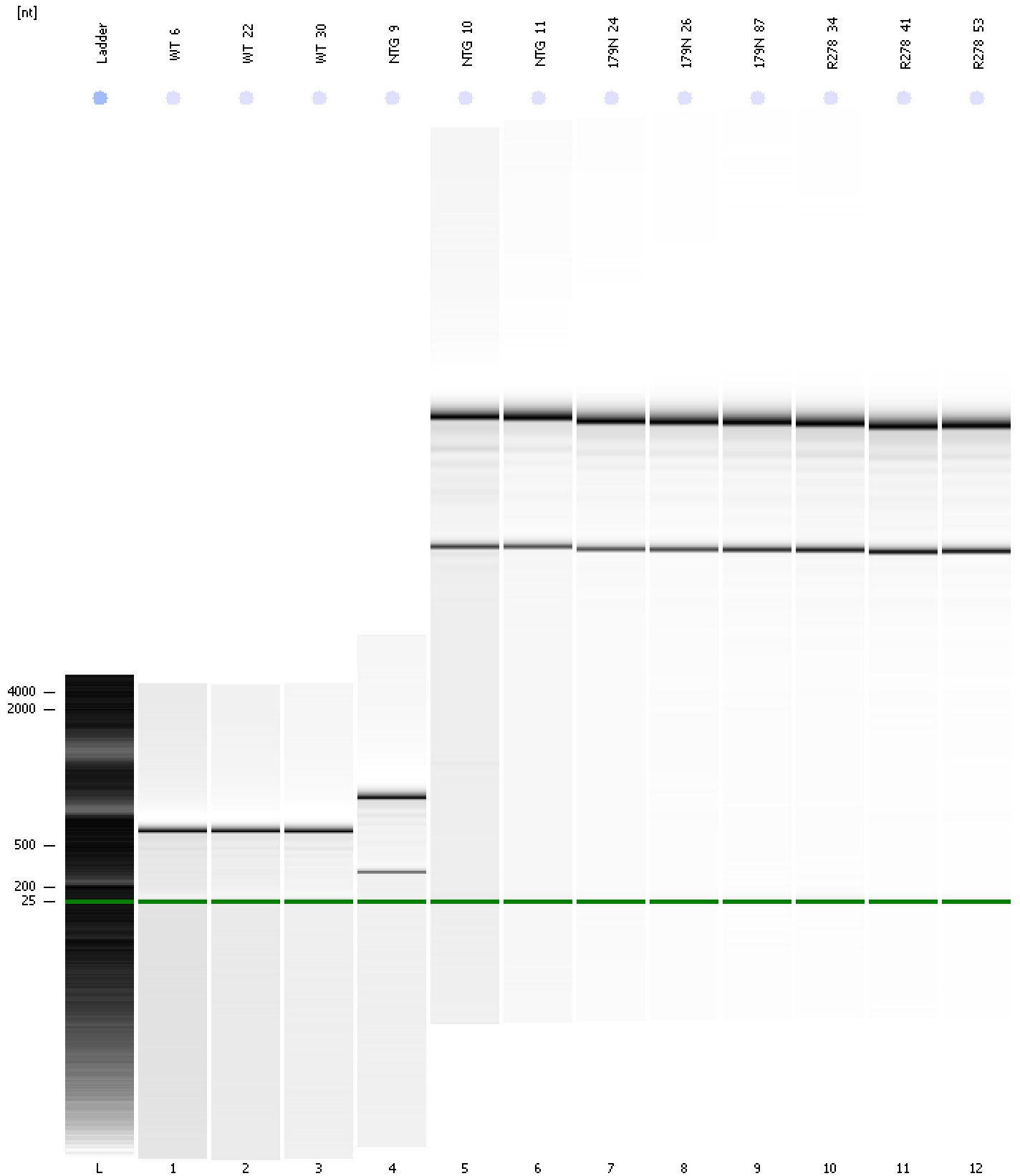
Fragment table for sample 12 : R278 53

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	20,231	23,093	88.8	23.3
28S	32,906	39,959	160.0	42.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad

Created: 7/3/2012 9:17:52 AM
Modified: 7/3/2012 9:41:45 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 7/3/2012 9:17:52 AM
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad Modified: 7/3/2012 9:41:45 AM

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		7/3/2012 9:41:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-07-03\2012-07-03_001.xad)		Instrument	Run		7/3/2012 9:17:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/3/2012 9:17:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/3/2012 9:17:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/3/2012 9:17:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/3/2012 9:17:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/3/2012 9:17:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/3/2012 9:17:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1