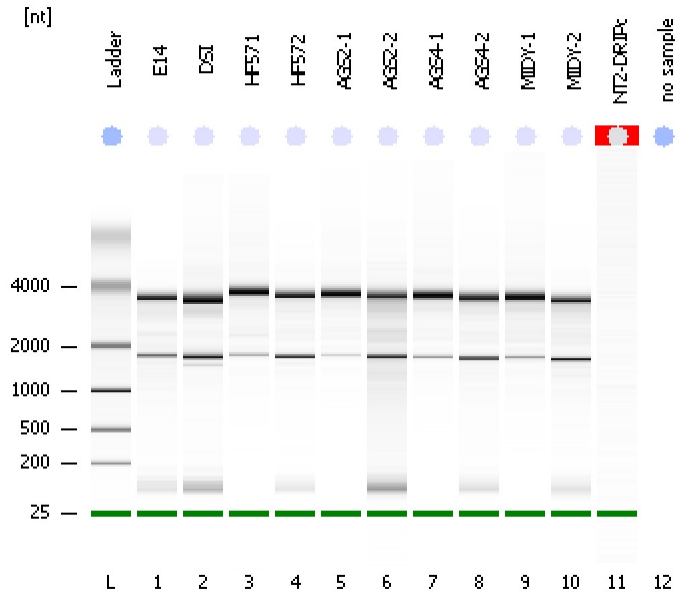


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
Modified: 3/6/2012 2:58:45 PM

**Electrophoresis File Run Summary**



Instrument Information:

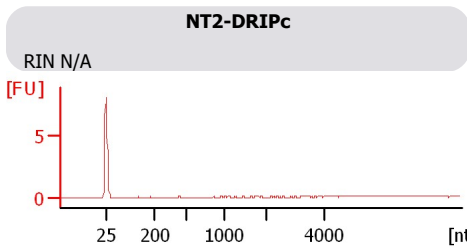
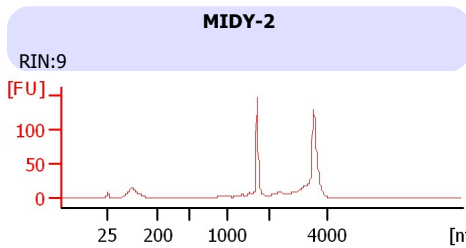
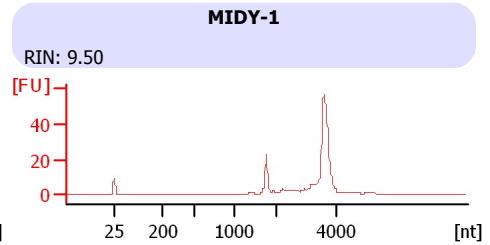
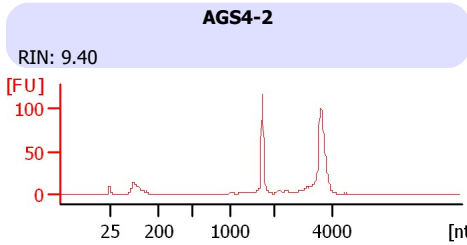
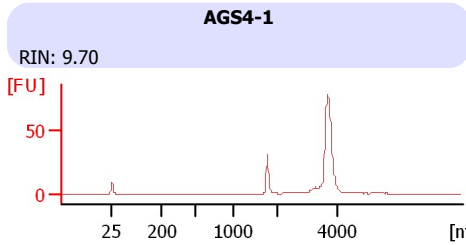
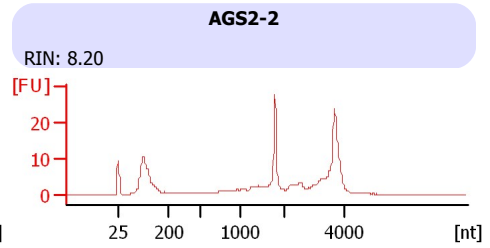
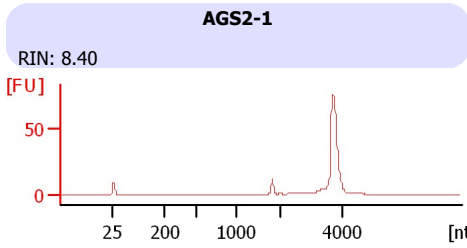
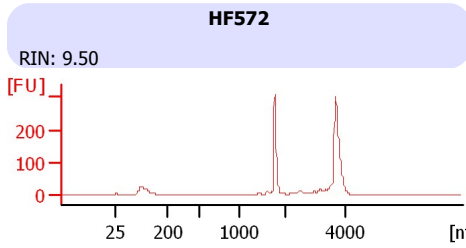
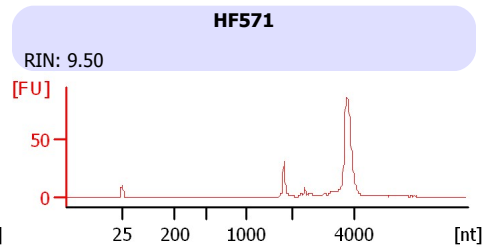
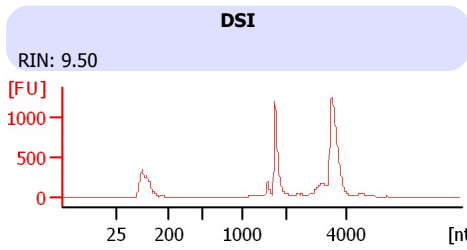
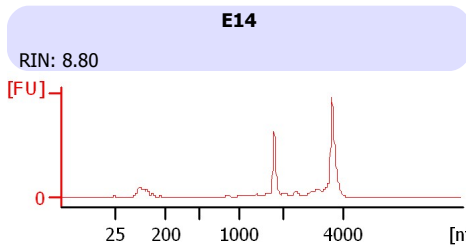
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

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



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
Modified: 3/6/2012 2:58:45 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
E14		✓	RIN: 8.80	
DSI		✓	RIN: 9.50	
HF571		✓	RIN: 9.50	
HF572		✓	RIN: 9.50	
AGS2-1		✓	RIN: 8.40	
AGS2-2		✓	RIN: 8.20	
AGS4-1		✓	RIN: 9.70	
AGS4-2		✓	RIN: 9.40	
MIDY-1		✓	RIN: 9.50	
MIDY-2		✓	RIN:9	
NT2-DRIPc		✓	RIN N/A	
no sample				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
Modified: 3/6/2012 2:58:45 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

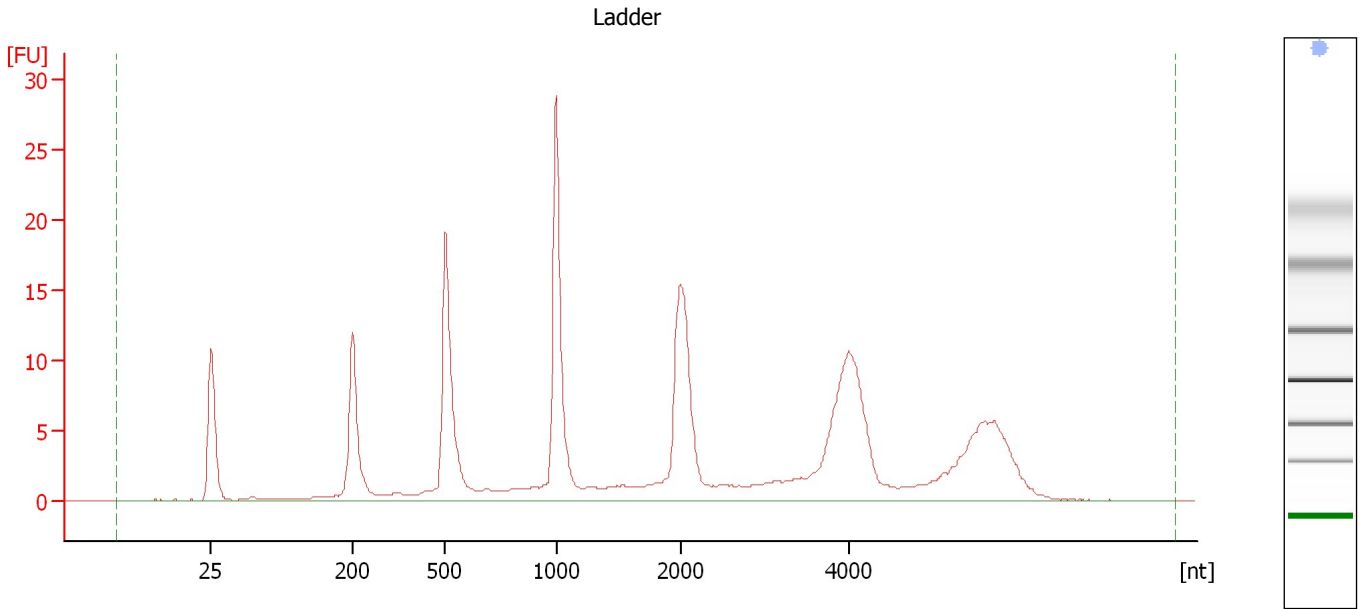
**Ladder**

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
Modified: 3/6/2012 2:58:45 PM

**Electropherogram Summary**



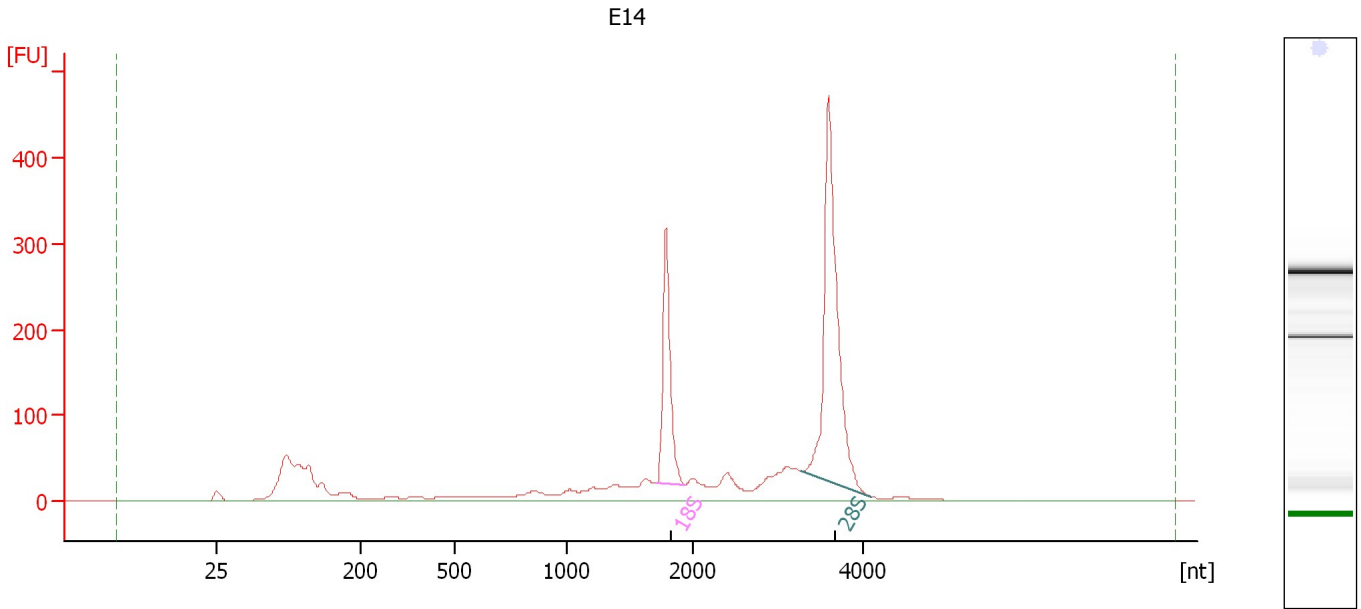
**Overall Results for Ladder**

RNA Area:	210.7	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
Modified: 3/6/2012 2:58:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : E14**

RNA Area: 1,972.4                      RNA Integrity Number (RIN): 8.8 (B.02.08)  
RNA Concentration: 1,404 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.2                      Result Flagging Label: RIN: 8.80

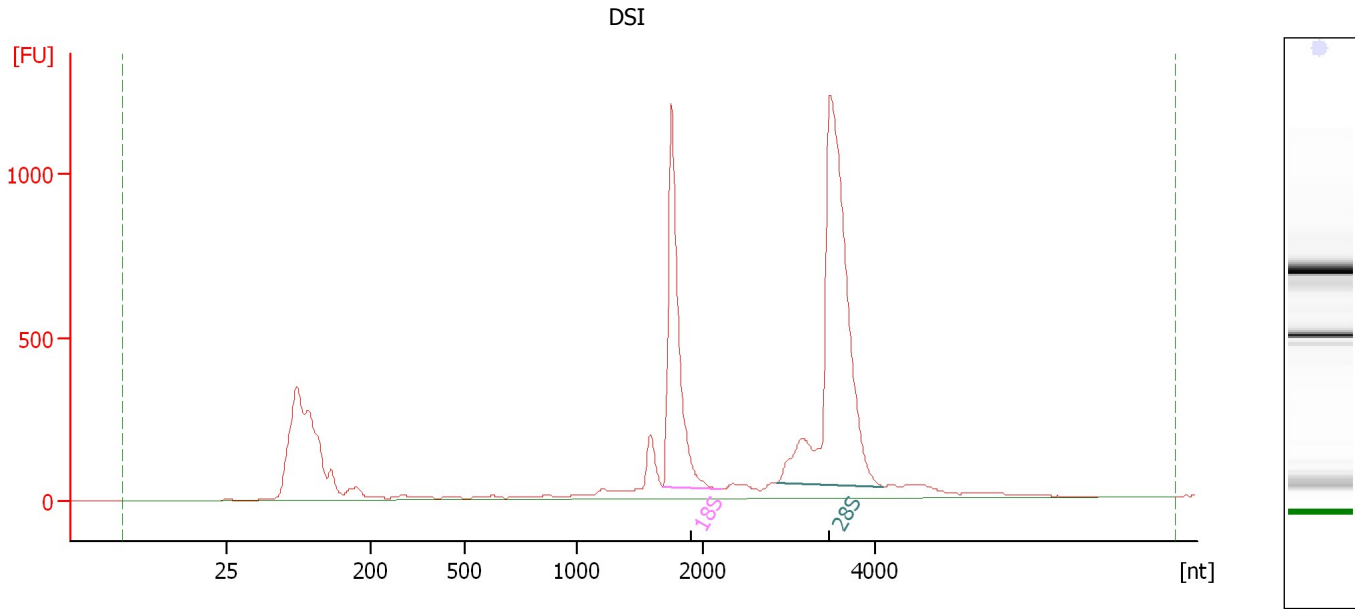
**Fragment table for sample 1 : E14**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,714	1,936	267.7	13.6
28S	3,281	4,081	593.8	30.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
 Modified: 3/6/2012 2:58:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : DSI**

RNA Area:	7,856.8	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	5,592 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.50

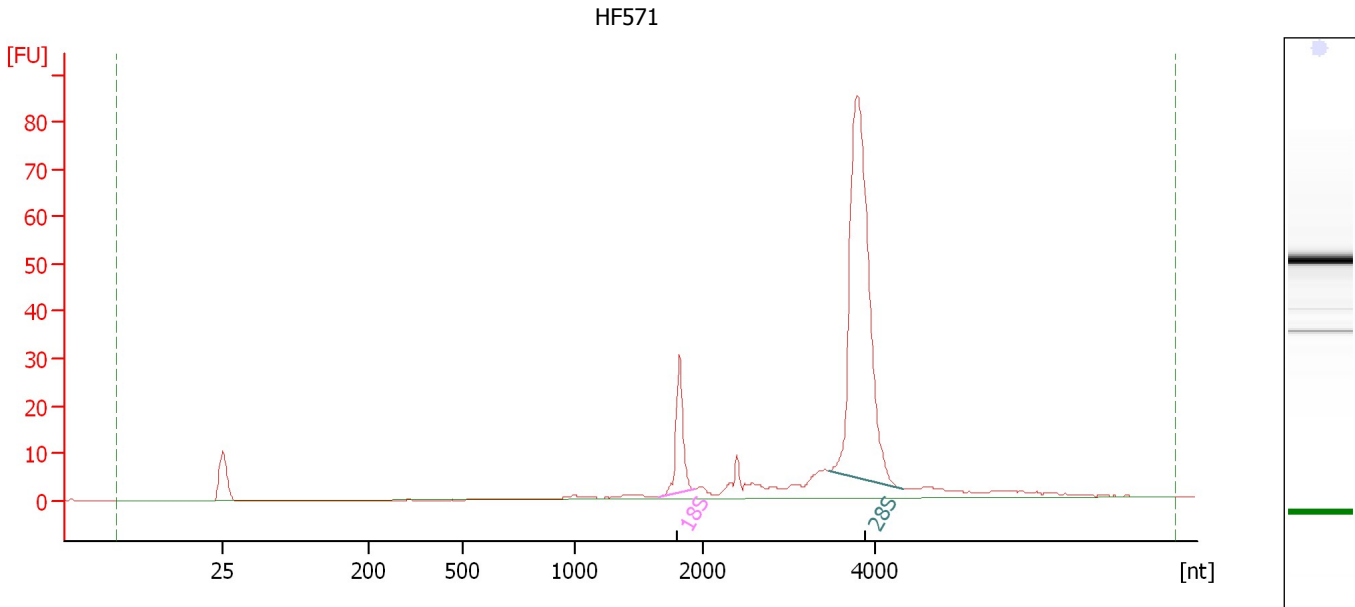
**Fragment table for sample 2 : DSI**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,686	2,196	1,404.8	17.9
28S	2,853	4,093	2,838.0	36.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
 Modified: 3/6/2012 2:58:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : HF571**

RNA Area:	266.8	RNA Integrity Number (RIN):	9.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	190 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	6.6	Result Flagging Label:	RIN: 9.50

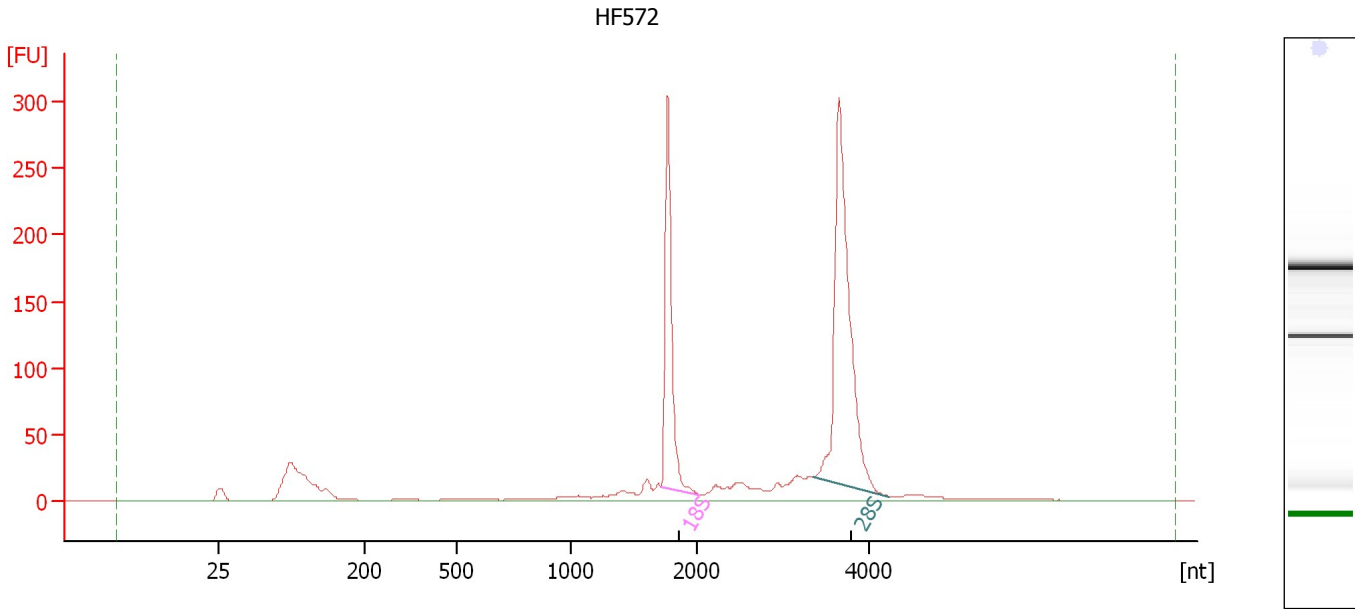
**Fragment table for sample 3 : HF571**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,653	1,931	23.2	8.7
28S	3,471	4,324	152.5	57.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
Modified: 3/6/2012 2:58:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : HF572**

RNA Area: 1,156.7      RNA Integrity Number (RIN): 9.5 (B.02.08)  
RNA Concentration: 823 ng/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8      Result Flagging Label: RIN: 9.50

**Fragment table for sample 4 : HF572**

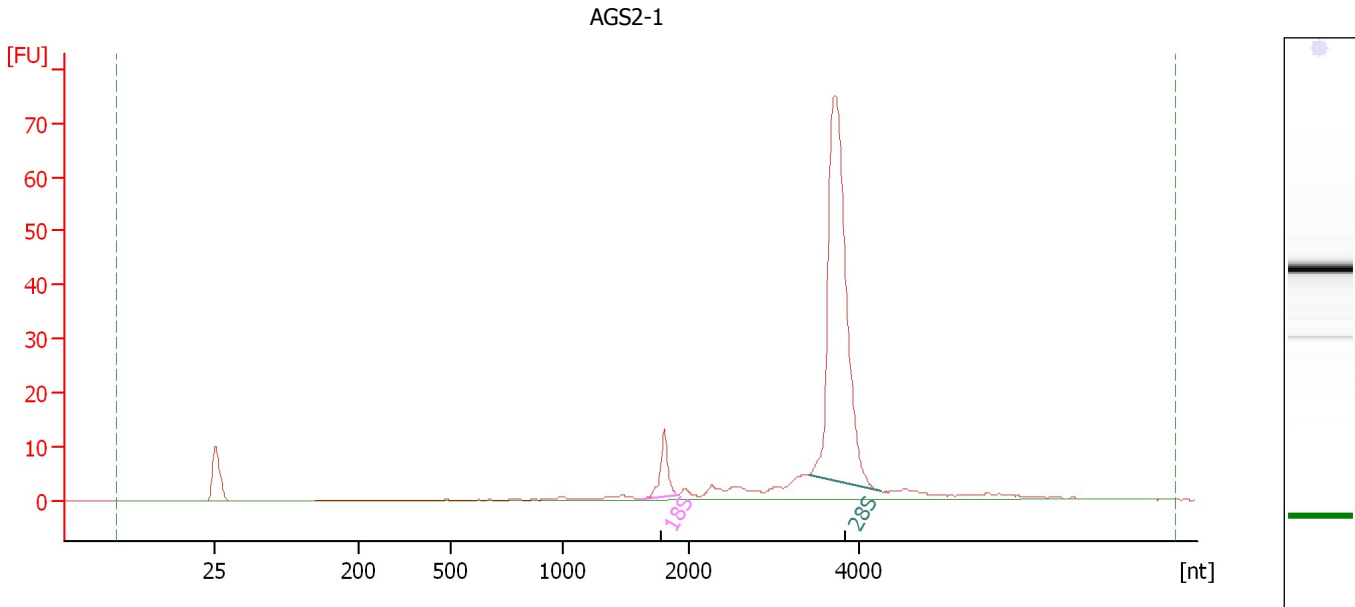
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,717	2,033	236.8	20.5
28S	3,365	4,236	420.9	36.4



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
 Modified: 3/6/2012 2:58:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : AGS2-1**

RNA Area:	208.2	RNA Integrity Number (RIN):	8.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	148 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	12.4	Result Flagging Label:	RIN: 8.40

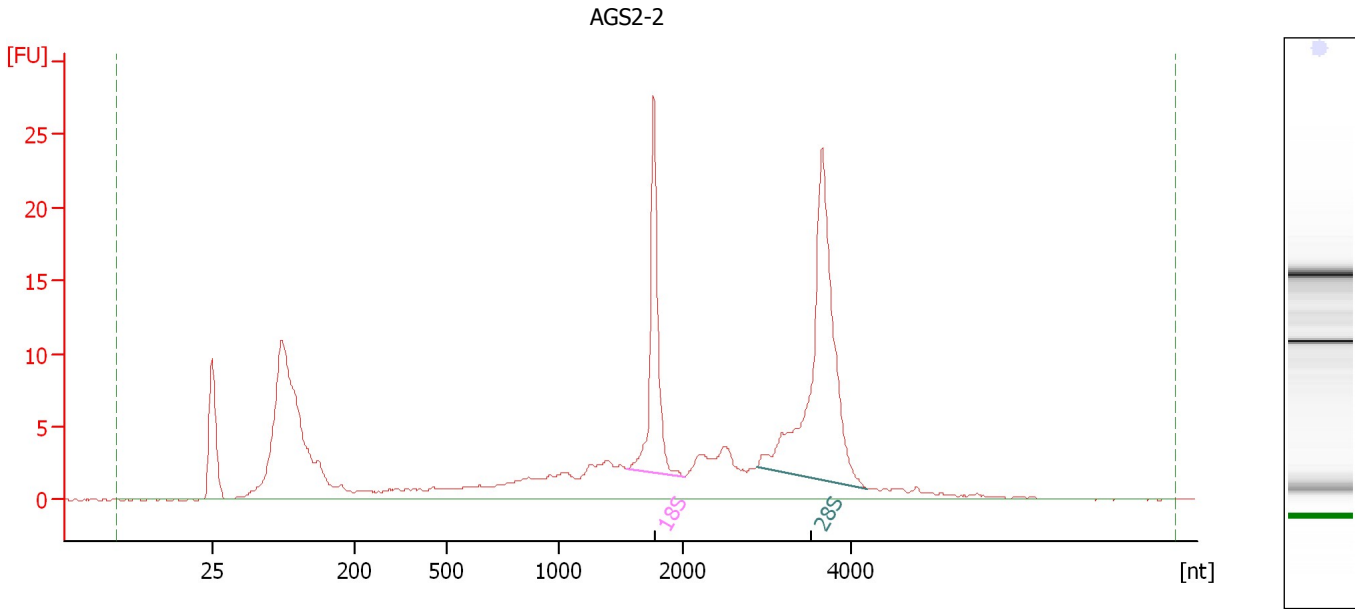
**Fragment table for sample 5 : AGS2-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	1,917	10.6	5.1
28S	3,410	4,263	130.9	62.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
Modified: 3/6/2012 2:58:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : AGS2-2**

RNA Area: 227.5                      RNA Integrity Number (RIN): 8.2 (B.02.08)  
RNA Concentration: 162 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.1                      Result Flagging Label: RIN: 8.20

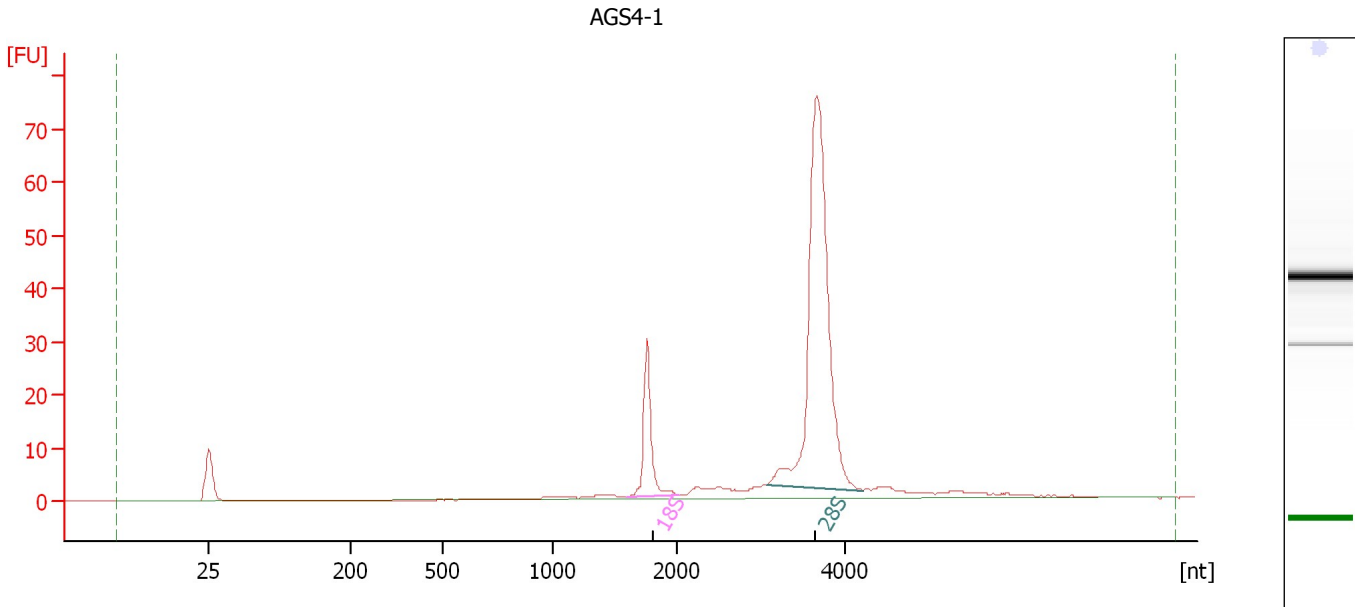
**Fragment table for sample 6 : AGS2-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,561	2,026	24.2	10.6
28S	2,872	4,186	50.8	22.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
 Modified: 3/6/2012 2:58:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : AGS4-1**

RNA Area:	226.4	RNA Integrity Number (RIN):	9.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	161 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	5.6	Result Flagging Label:	RIN: 9.70

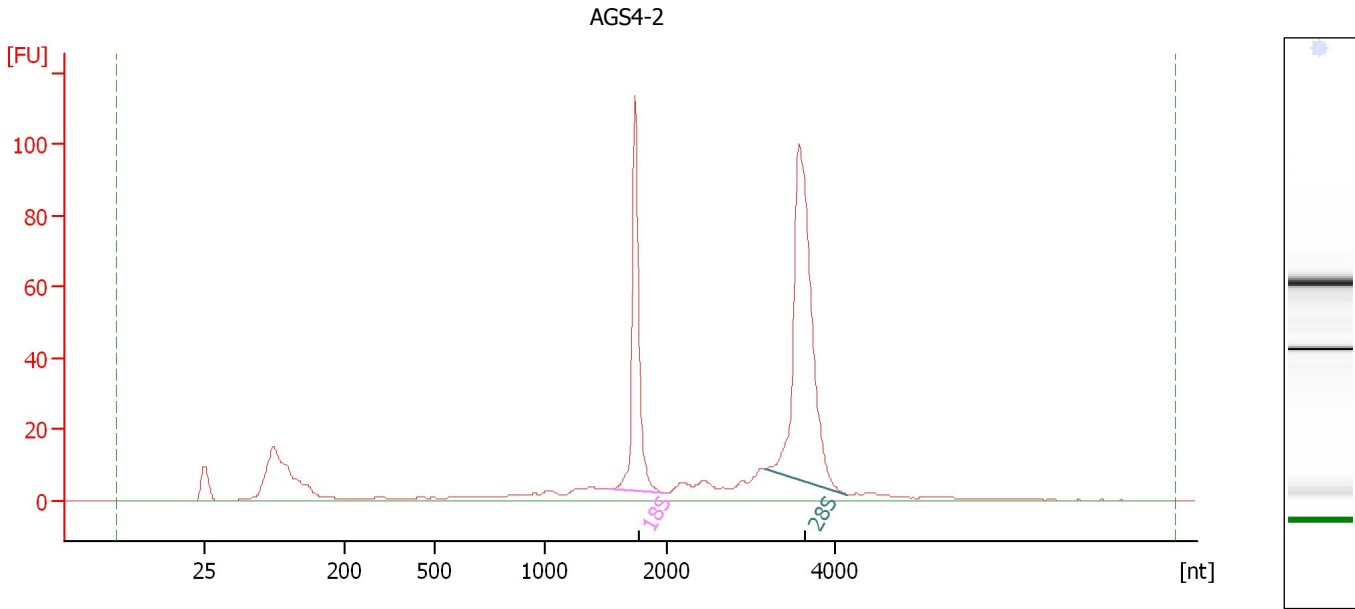
**Fragment table for sample 7 : AGS4-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,600	2,036	26.1	11.5
28S	3,078	4,222	146.1	64.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
Modified: 3/6/2012 2:58:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : AGS4-2**

RNA Area: 521.2                      RNA Integrity Number (RIN): 9.4 (B.02.08)  
RNA Concentration: 371 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8              Result Flagging Label: RIN: 9.40

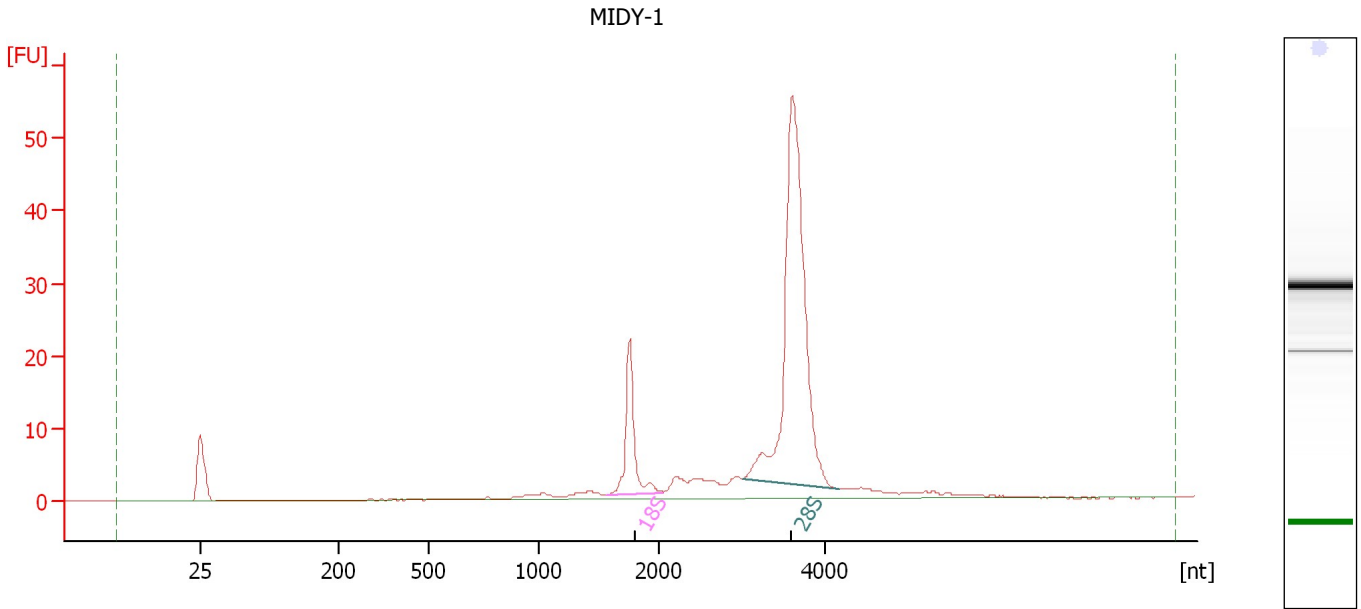
**Fragment table for sample 8 : AGS4-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,533	1,986	98.2	18.8
28S	3,173	4,147	176.8	33.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
Modified: 3/6/2012 2:58:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : MIDY-1**

RNA Area:	192.6	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	137 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	5.3	Result Flagging Label:	RIN: 9.50

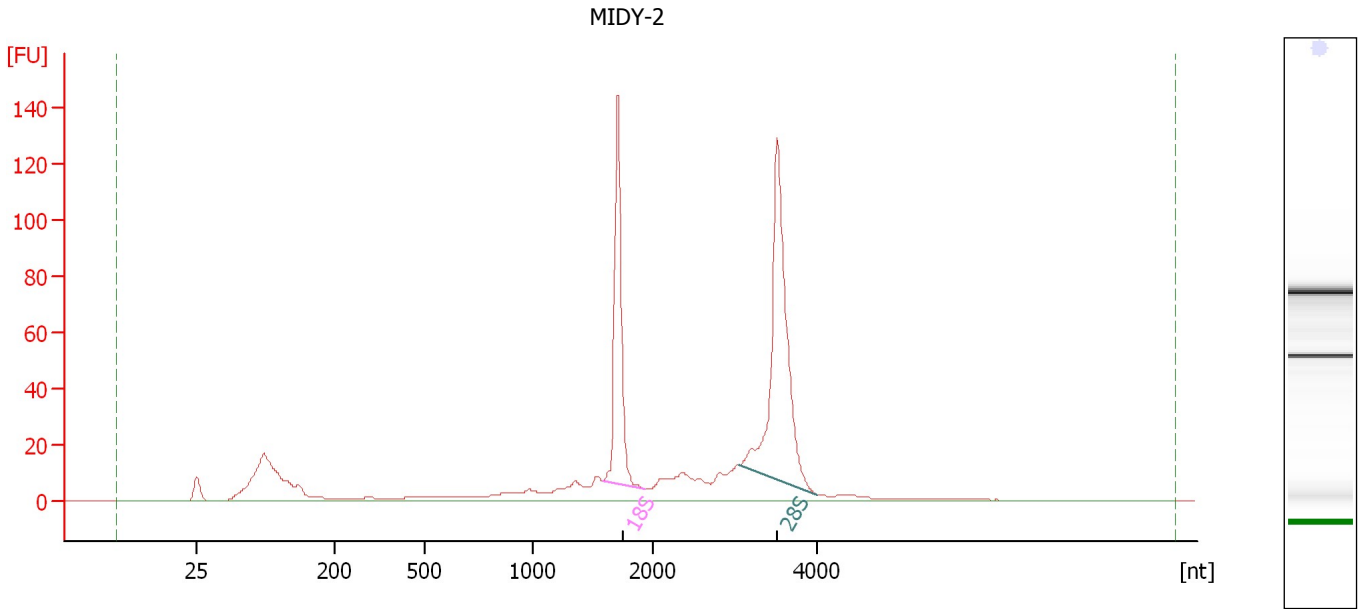
**Fragment table for sample 9 : MIDY-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,570	2,041	21.0	10.9
28S	2,997	4,174	110.8	57.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
Modified: 3/6/2012 2:58:45 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : MIDY-2**

RNA Area: 667.8                      RNA Integrity Number (RIN): 9 (B.02.08)  
RNA Concentration: 475 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7                      Result Flagging Label: RIN:9

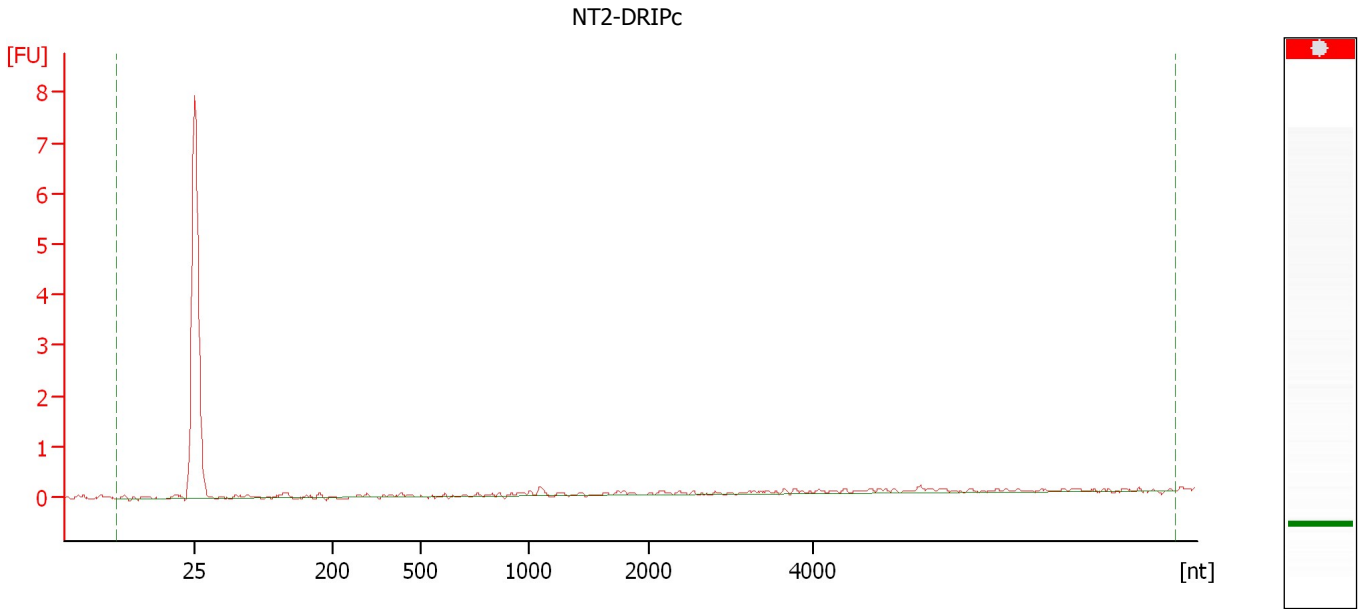
**Fragment table for sample 10 : MIDY-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,582	1,928	116.0	17.4
28S	3,053	4,003	194.0	29.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
Modified: 3/6/2012 2:58:45 PM

**Electropherogram Summary Continued ...**



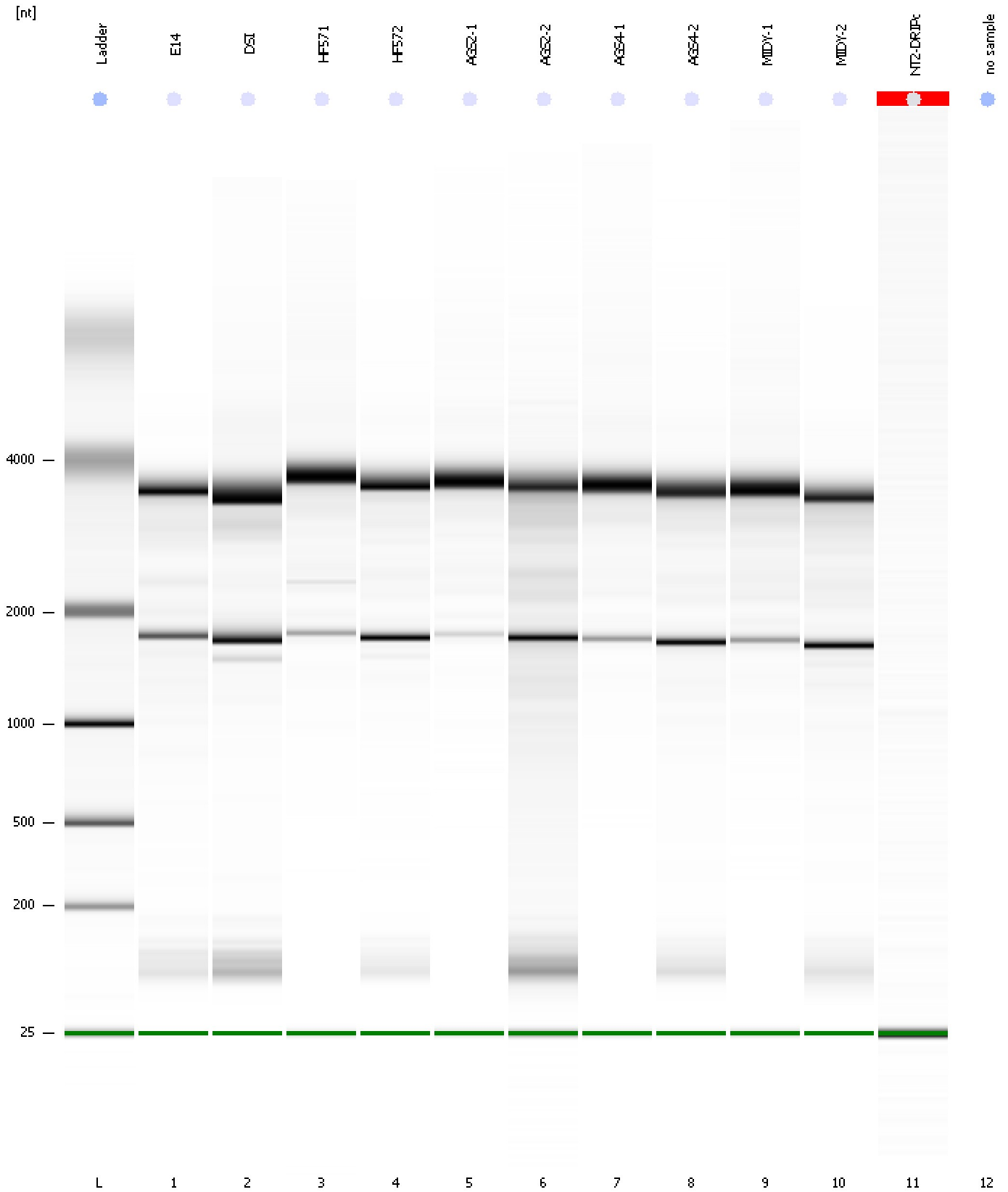
**Overall Results for sample 11 : NT2-DRIPc**

RNA Area:	3.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
Modified: 3/6/2012 2:58:45 PM

**Gel Image**





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Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad

Created: 3/6/2012 2:25:15 PM  
Modified: 3/6/2012 2:58:45 PM

**Invalid Samples**

Sample 12 has not been run, no results available.

Assay Class: Eukaryote Total RNA Nano Created: 3/6/2012 2:25:15 PM  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-06\2012-03-06\_006.xad Modified: 3/6/2012 2:58:45 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		3/6/2012 2:47:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-03-06\2012-03-06_006.xad)		Instrument	Run		3/6/2012 2:25:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/6/2012 2:25:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/6/2012 2:25:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/6/2012 2:25:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/6/2012 2:25:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/6/2012 2:25:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/6/2012 2:25:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1