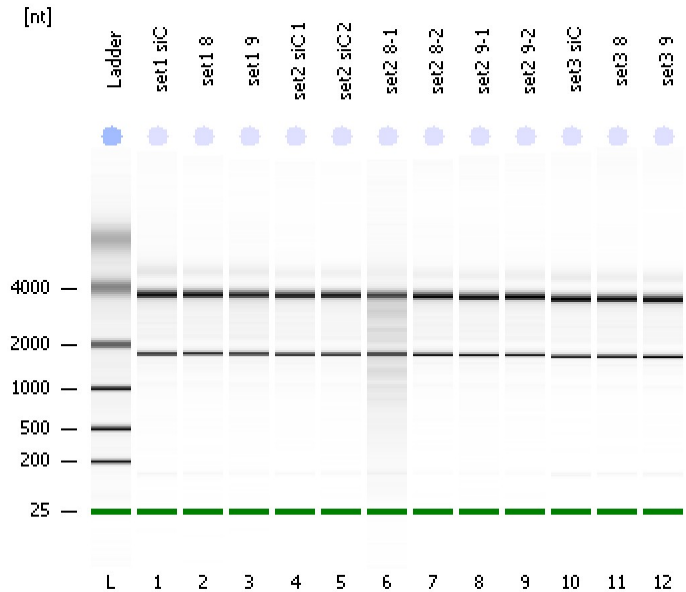


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
Modified: 1/3/2013 11:48:57 AM

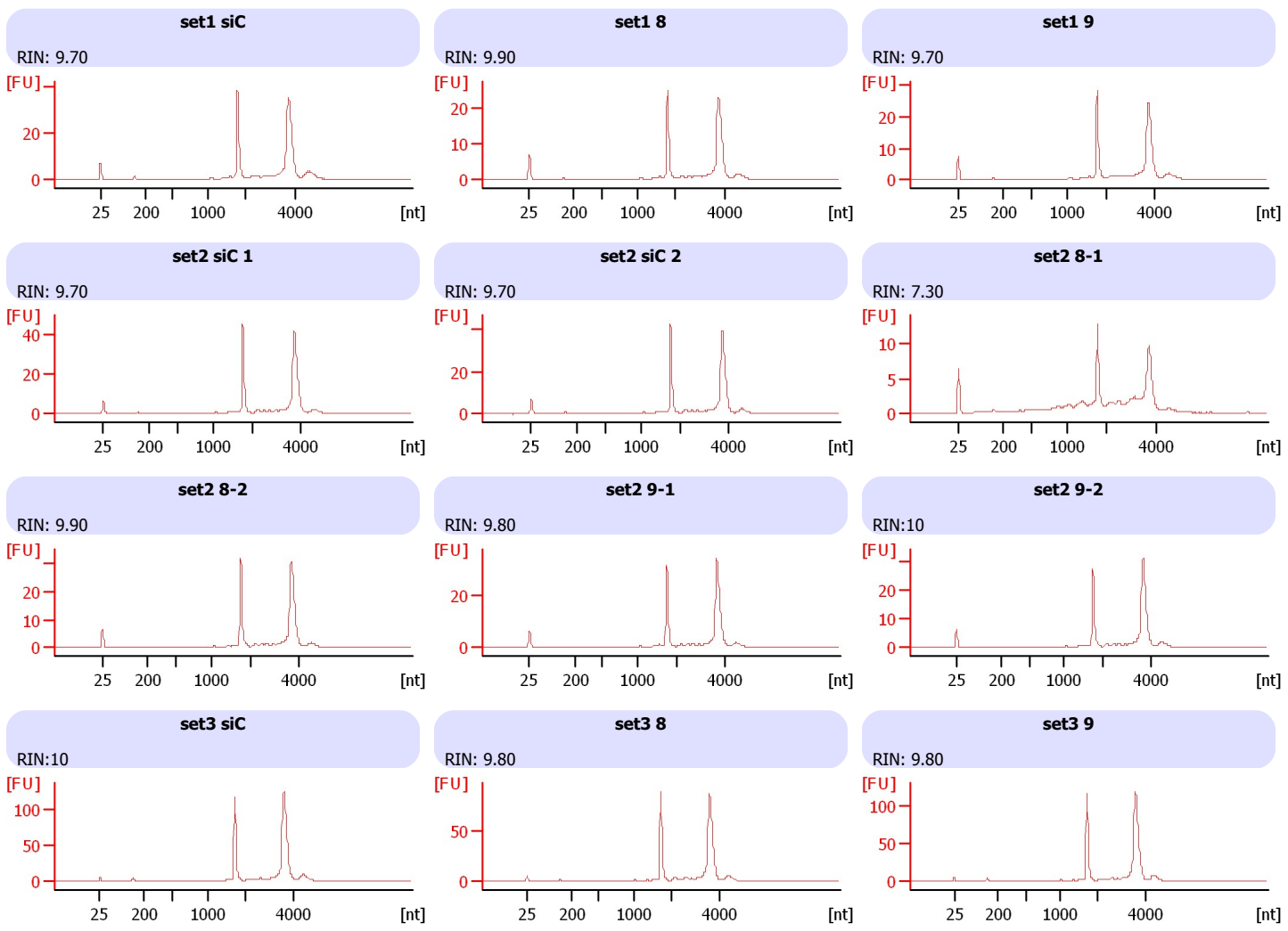
### Electrophoresis File Run Summary



**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)  
© 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\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
Modified: 1/3/2013 11:48:57 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
set1 siC		✓	RIN: 9.70	
set1 8		✓	RIN: 9.90	
set1 9		✓	RIN: 9.70	
set2 siC 1		✓	RIN: 9.70	
set2 siC 2		✓	RIN: 9.70	
set2 8-1		✓	RIN: 7.30	
set2 8-2		✓	RIN: 9.90	
set2 9-1		✓	RIN: 9.80	
set2 9-2		✓	RIN:10	
set3 siC		✓	RIN:10	
set3 8		✓	RIN: 9.80	
set3 9		✓	RIN: 9.80	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
Modified: 1/3/2013 11:48:57 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/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

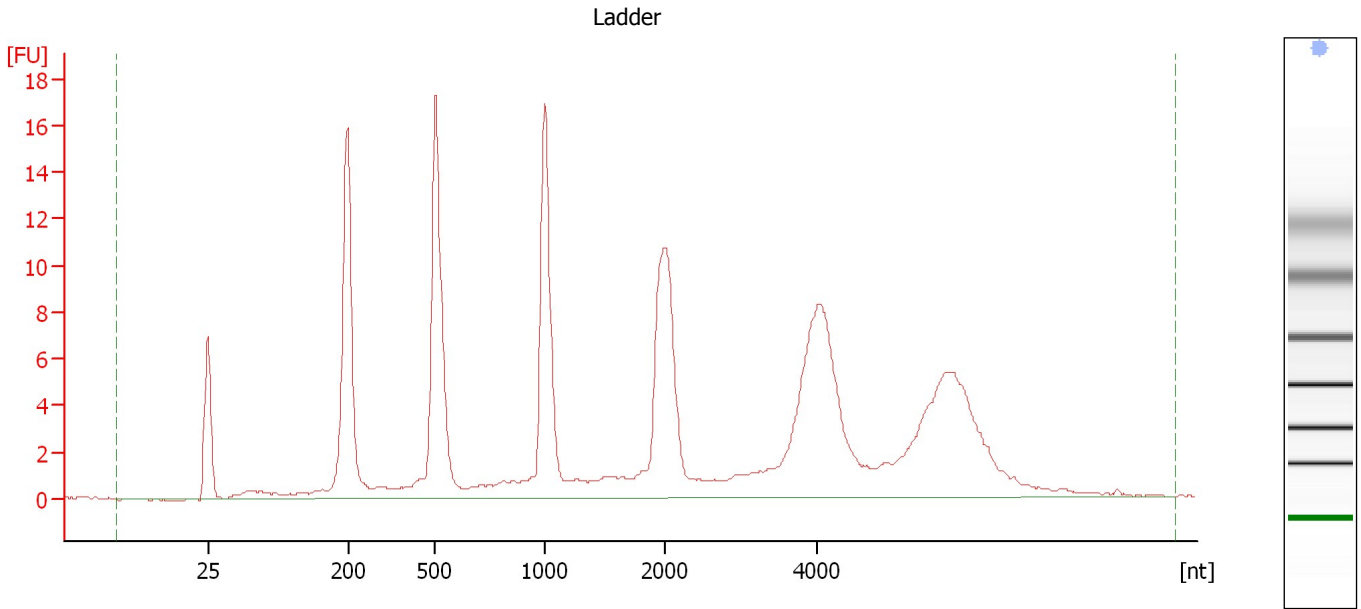
**Ladder**

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\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
Modified: 1/3/2013 11:48:57 AM

**Electropherogram Summary**



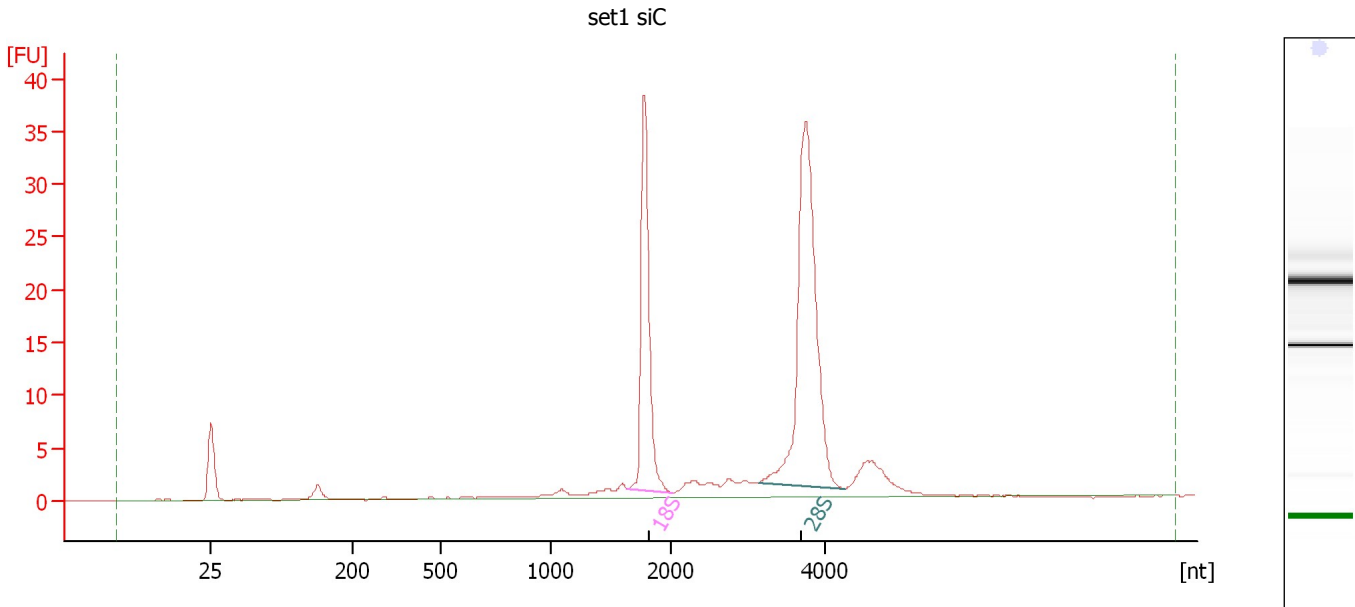
**Overall Results for Ladder**

RNA Area:	200.3	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\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
Modified: 1/3/2013 11:48:57 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : set1 siC**

RNA Area: 146.5                      RNA Integrity Number (RIN): 9.7 (B.02.08)  
RNA Concentration: 110 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8                      Result Flagging Label: RIN: 9.70

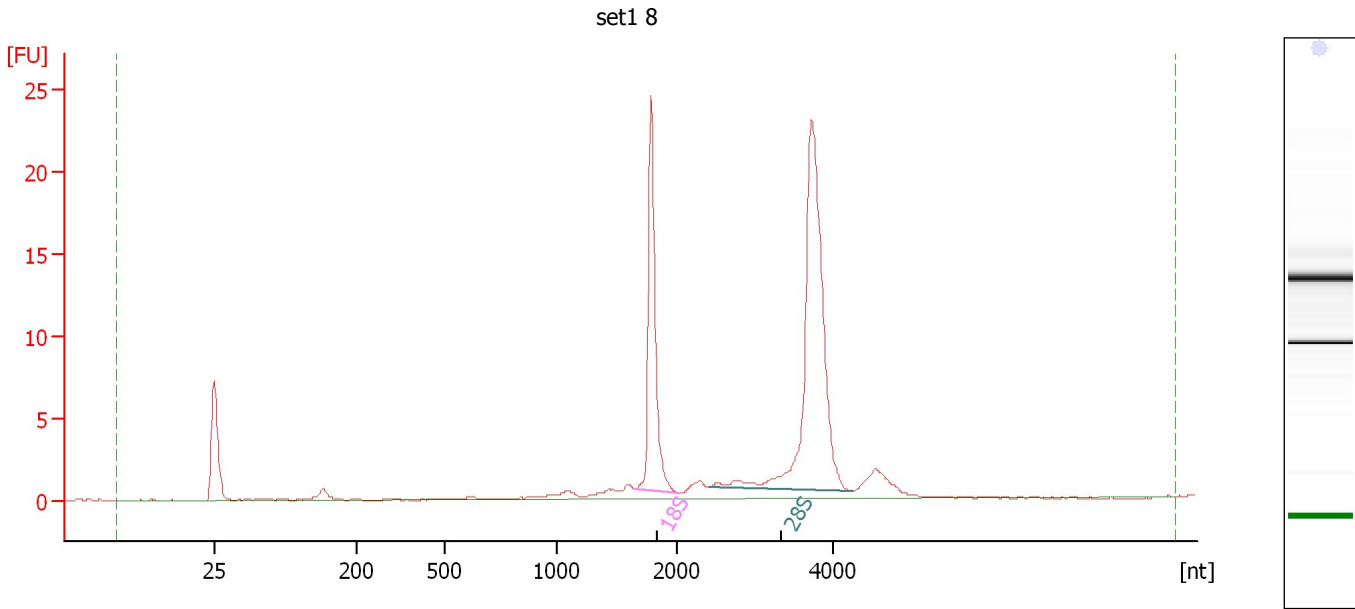
**Fragment table for sample 1 : set1 siC**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,638	2,018	35.2	24.0
28S	3,143	4,255	65.1	44.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
Modified: 1/3/2013 11:48:57 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : set1 8**

RNA Area:	87.5	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	66 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: 9.90

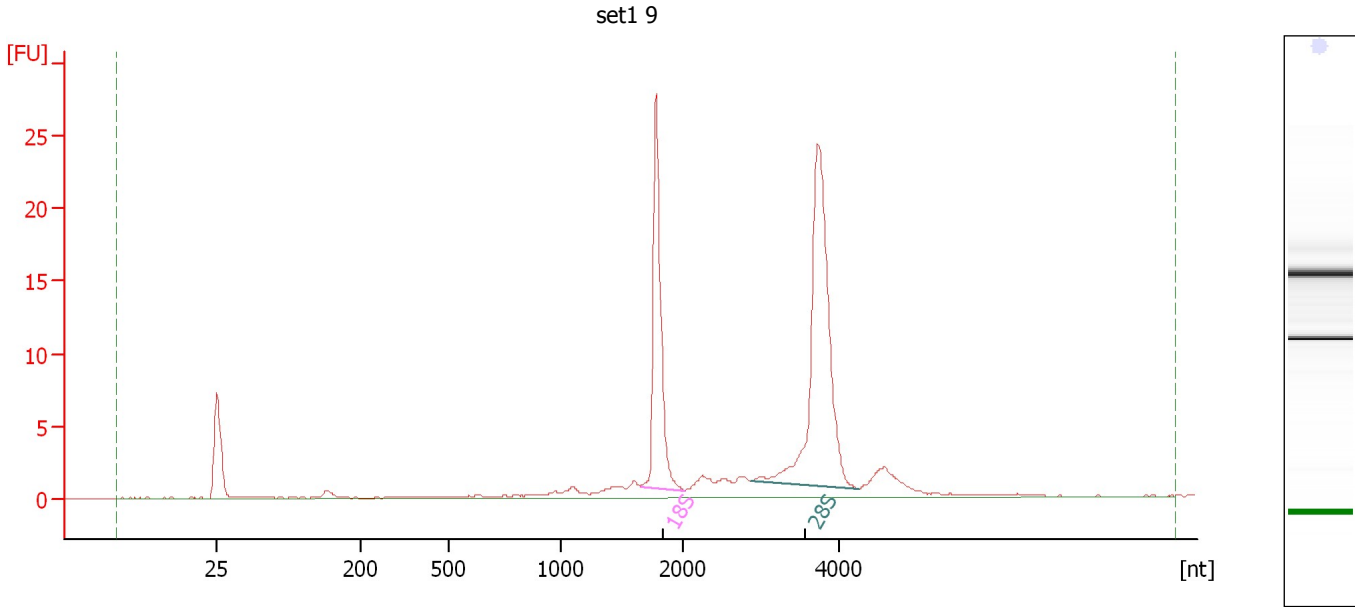
**Fragment table for sample 2 : set1 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,652	2,008	20.9	23.9
28S	2,408	4,273	42.4	48.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
Modified: 1/3/2013 11:48:57 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : set1 9**

RNA Area:	101.8	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	76 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]:	1.8	Result Flagging Label:	RIN: 9.70

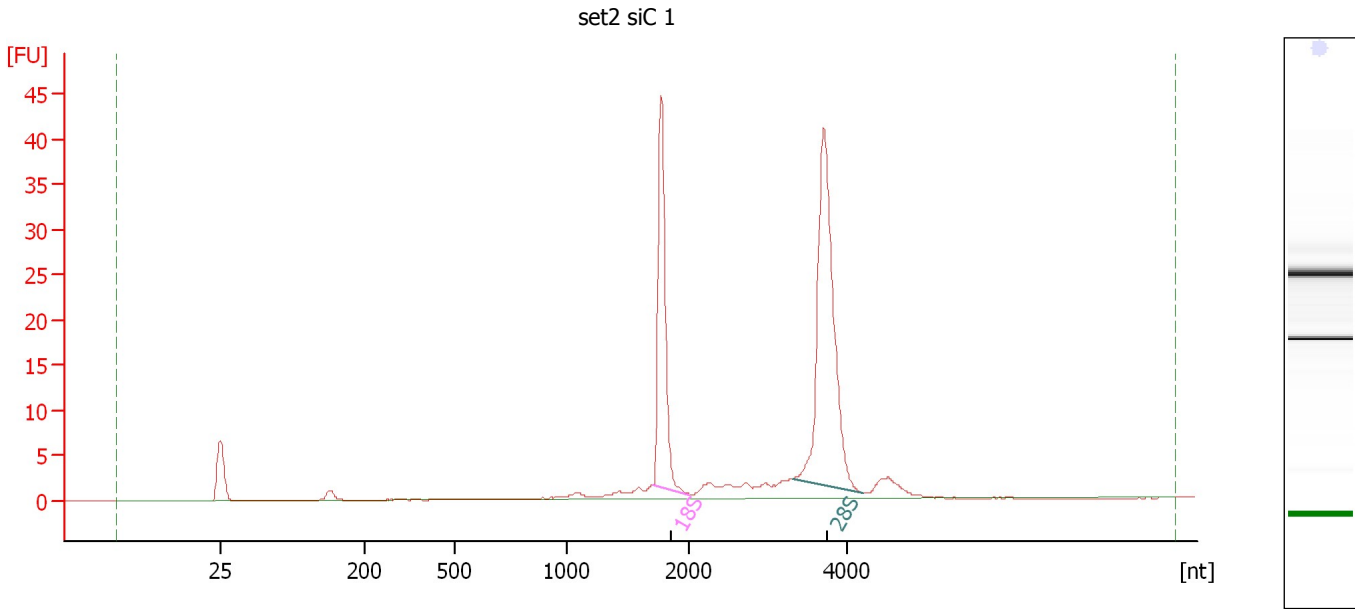
**Fragment table for sample 3 : set1 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	2,012	24.5	24.1
28S	2,876	4,249	43.3	42.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
Modified: 1/3/2013 11:48:57 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : set2 siC 1**

RNA Area: 140.9                      RNA Integrity Number (RIN): 9.7 (B.02.08)  
RNA Concentration: 106 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8                      Result Flagging Label: RIN: 9.70

**Fragment table for sample 4 : set2 siC 1**

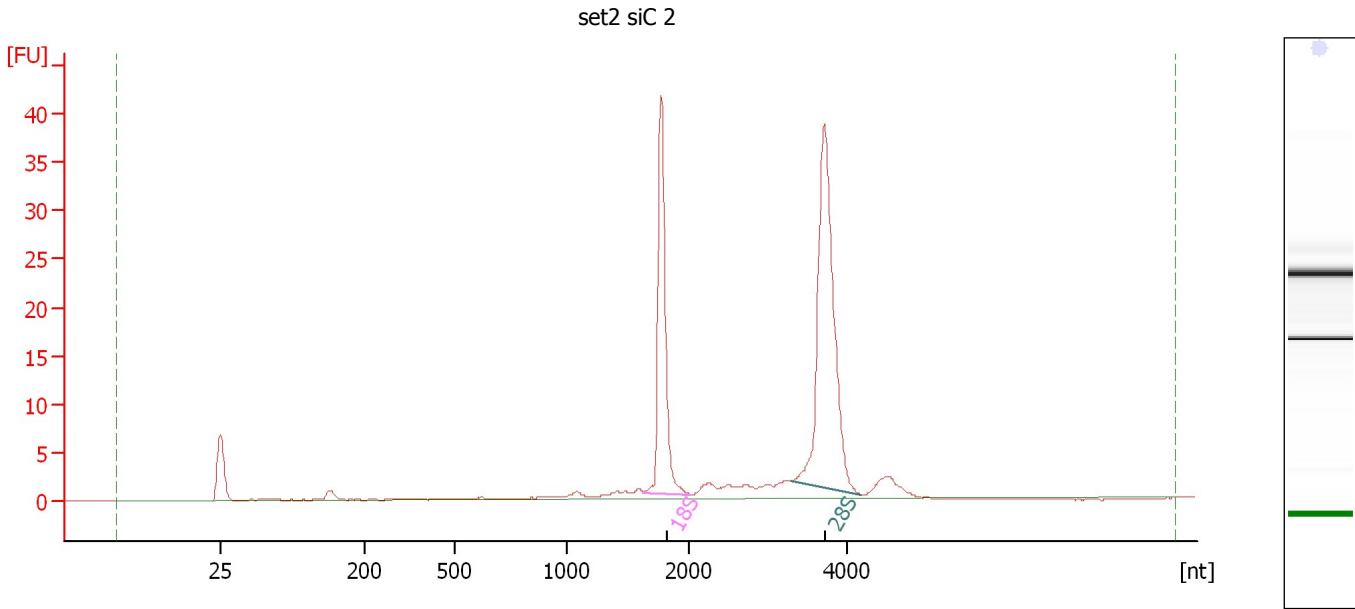
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	2,002	35.5	25.2
28S	3,312	4,226	64.4	45.7



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
Modified: 1/3/2013 11:48:57 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : set2 siC 2**

RNA Area: 131.1                      RNA Integrity Number (RIN): 9.7 (B.02.08)  
RNA Concentration: 98 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8              Result Flagging Label: RIN: 9.70

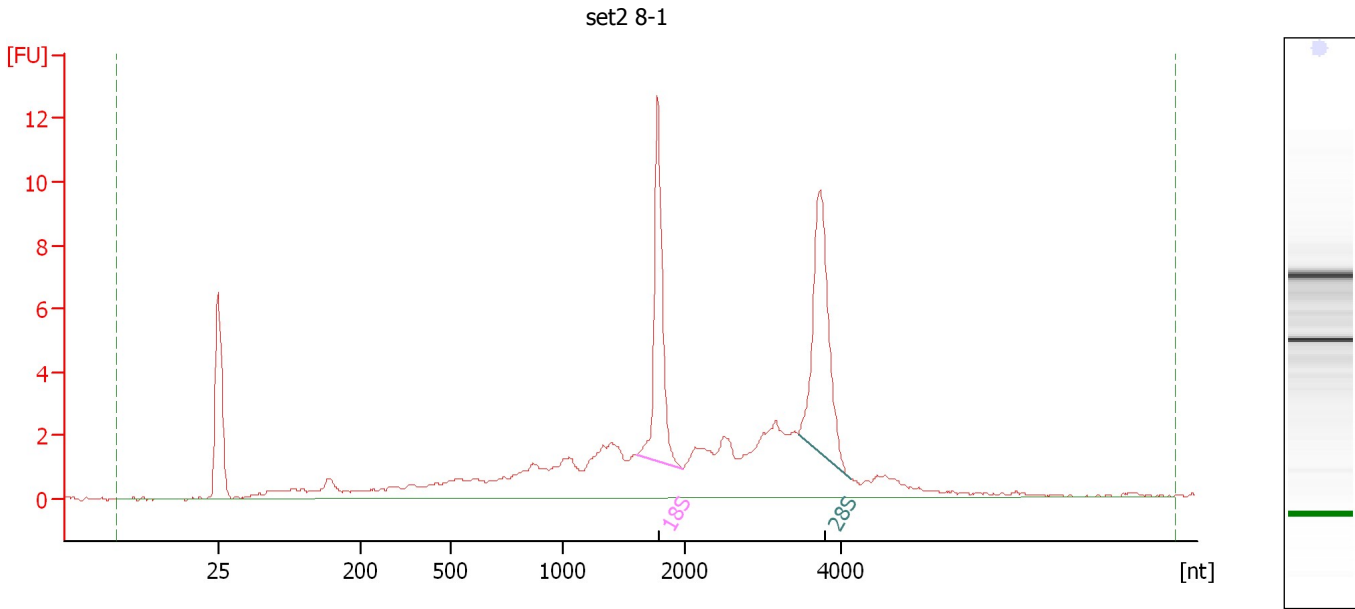
**Fragment table for sample 5 : set2 siC 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	2,016	34.1	26.0
28S	3,284	4,185	60.9	46.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
Modified: 1/3/2013 11:48:57 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : set2 8-1**

RNA Area:	89.0	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	67 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]:	1.2	Result Flagging Label:	RIN: 7.30

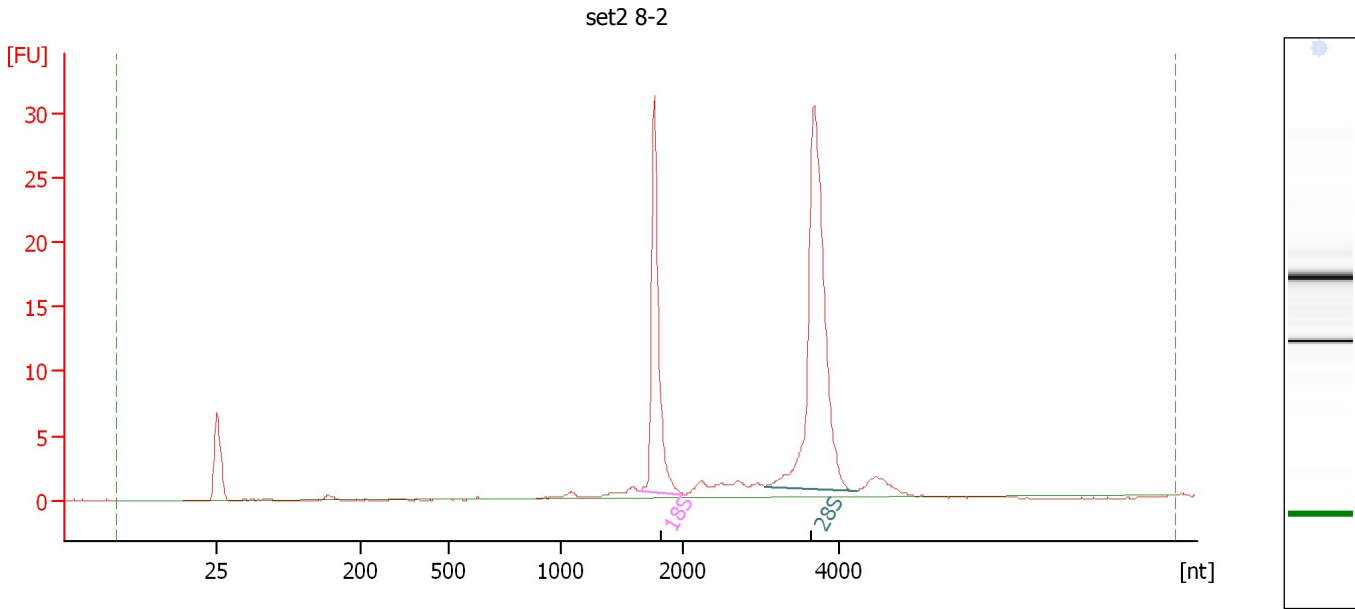
**Fragment table for sample 6 : set2 8-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,606	1,973	10.8	12.1
28S	3,451	4,122	13.3	14.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
 Modified: 1/3/2013 11:48:57 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : set2 8-2**

RNA Area:	98.3	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	74 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]:	1.9	Result Flagging Label:	RIN: 9.90

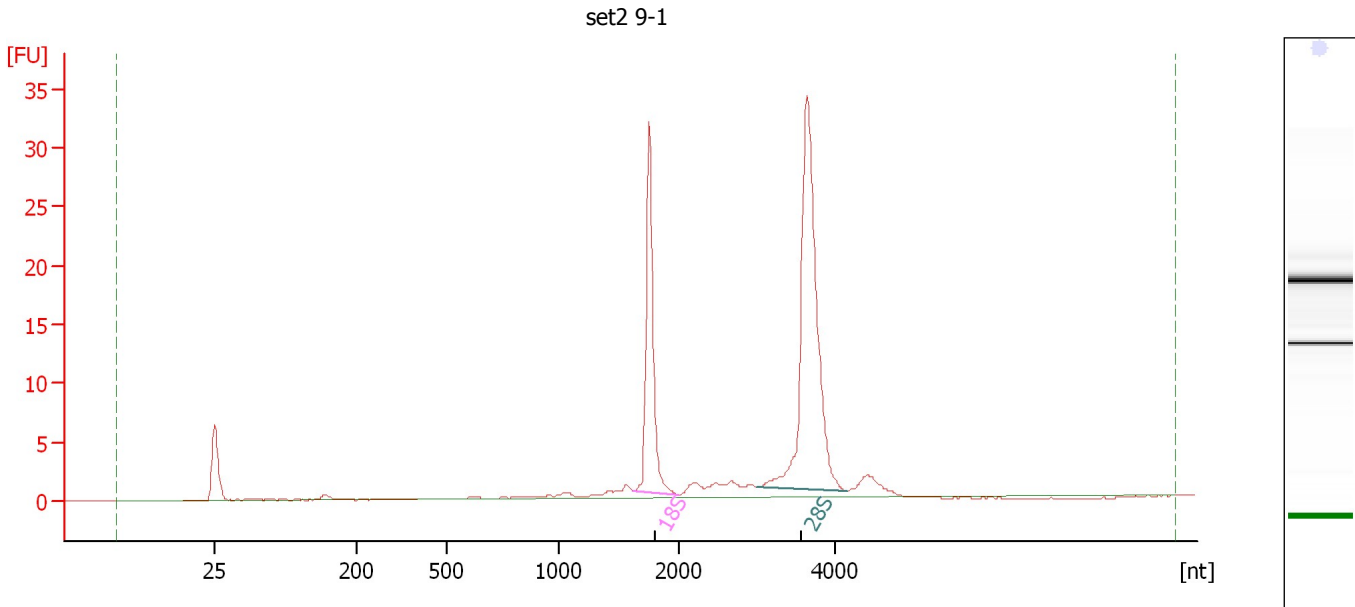
**Fragment table for sample 7 : set2 8-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	2,012	26.8	27.2
28S	3,041	4,222	49.8	50.7

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
 Modified: 1/3/2013 11:48:57 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : set2 9-1**

RNA Area:	109.0	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	82 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: 9.80

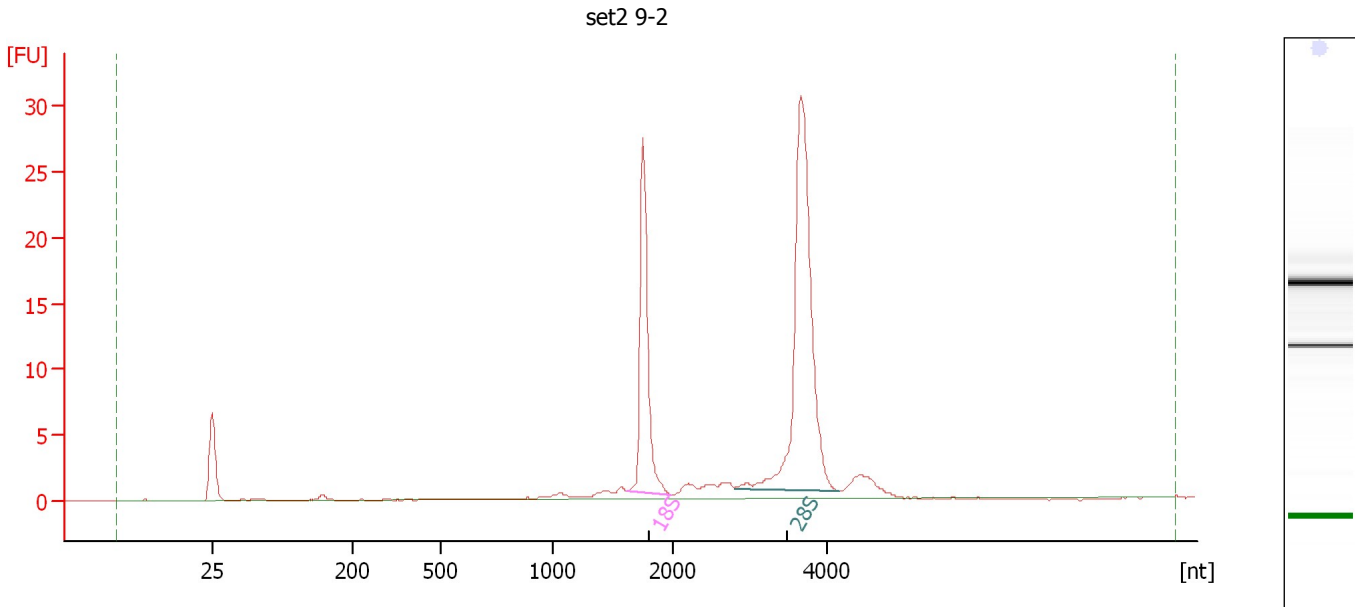
**Fragment table for sample 8 : set2 9-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	1,988	26.5	24.3
28S	3,001	4,159	53.7	49.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
Modified: 1/3/2013 11:48:57 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : set2 9-2**

RNA Area:	100.6	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	75 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]:	2.1	Result Flagging Label:	RIN:10

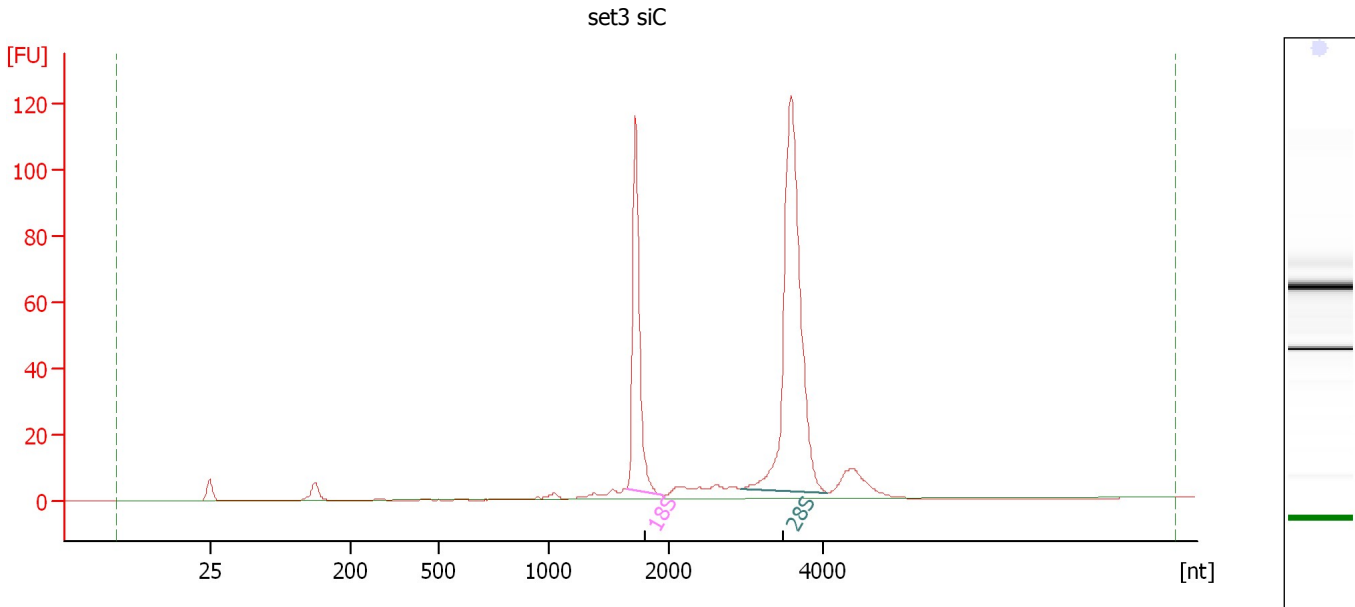
**Fragment table for sample 9 : set2 9-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,613	1,985	24.3	24.1
28S	2,796	4,141	51.9	51.6

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
 Modified: 1/3/2013 11:48:57 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : set3 siC**

RNA Area:	394.9	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	296 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]:	2.1	Result Flagging Label:	RIN:10

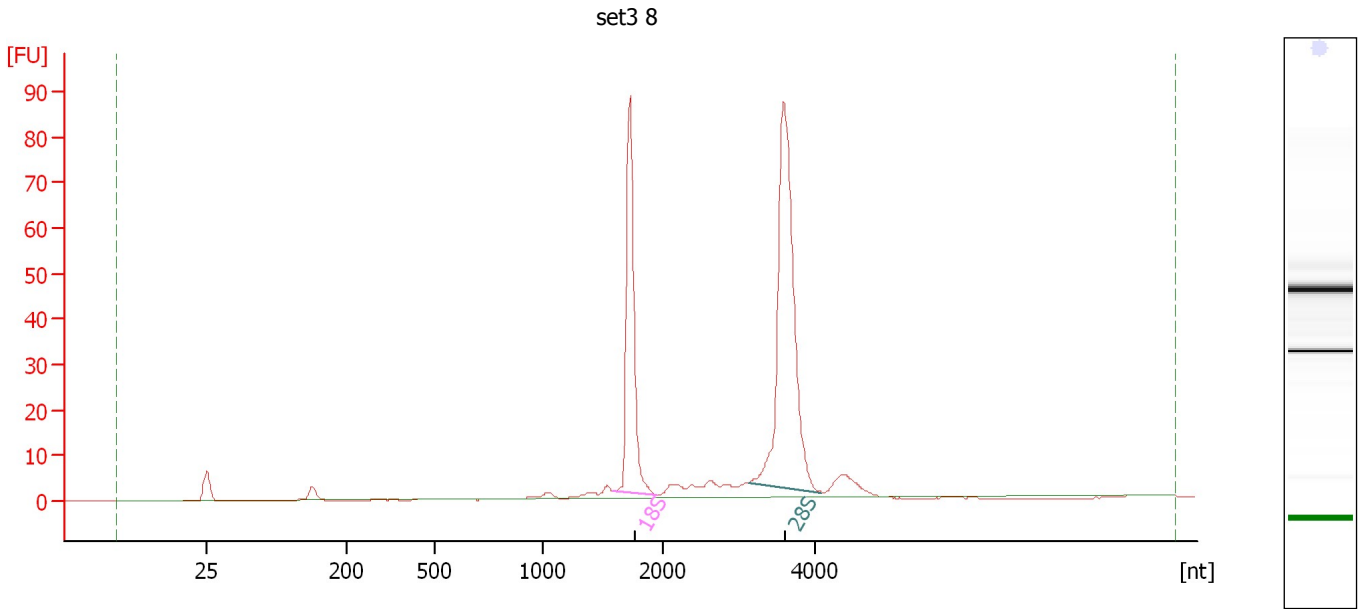
**Fragment table for sample 10 : set3 siC**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,655	1,939	99.3	25.1
28S	2,935	4,050	205.5	52.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
Modified: 1/3/2013 11:48:57 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : set3 8**

RNA Area:	293.0	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	219 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]:	1.8	Result Flagging Label:	RIN: 9.80

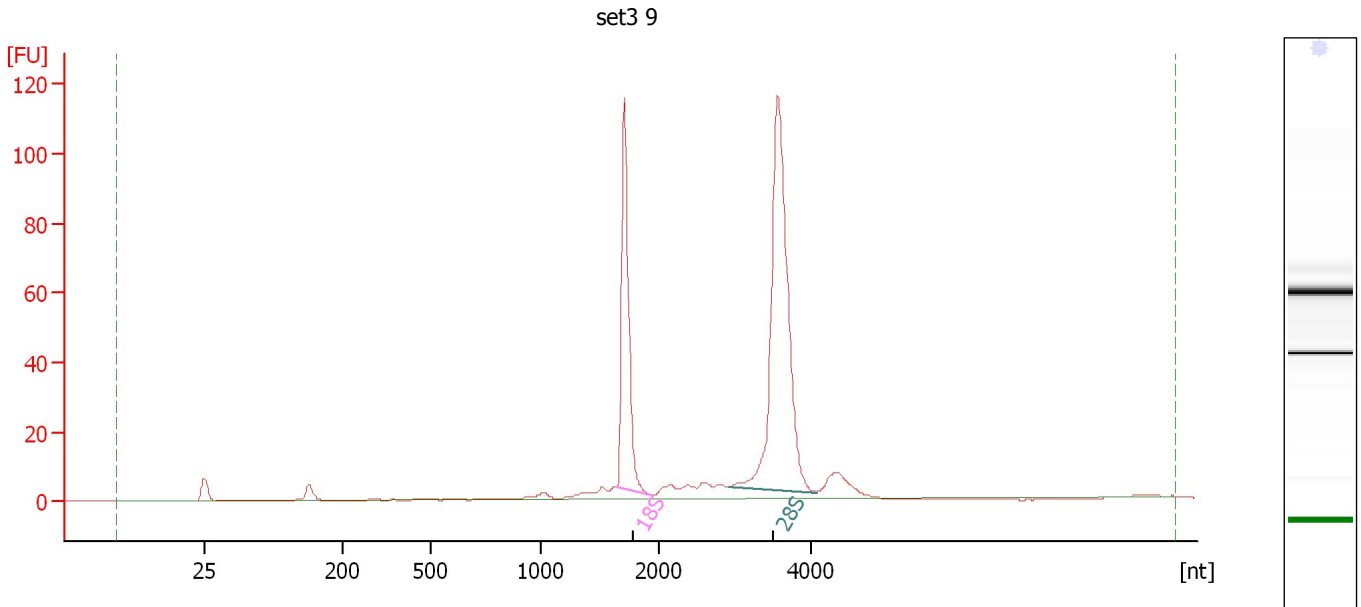
**Fragment table for sample 11 : set3 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,587	1,945	77.8	26.6
28S	3,119	4,072	143.0	48.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
Modified: 1/3/2013 11:48:57 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : set3 9**

RNA Area: 391.2                      RNA Integrity Number (RIN): 9.8 (B.02.08)  
RNA Concentration: 293 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.0                      Result Flagging Label: RIN: 9.80

**Fragment table for sample 12 : set3 9**

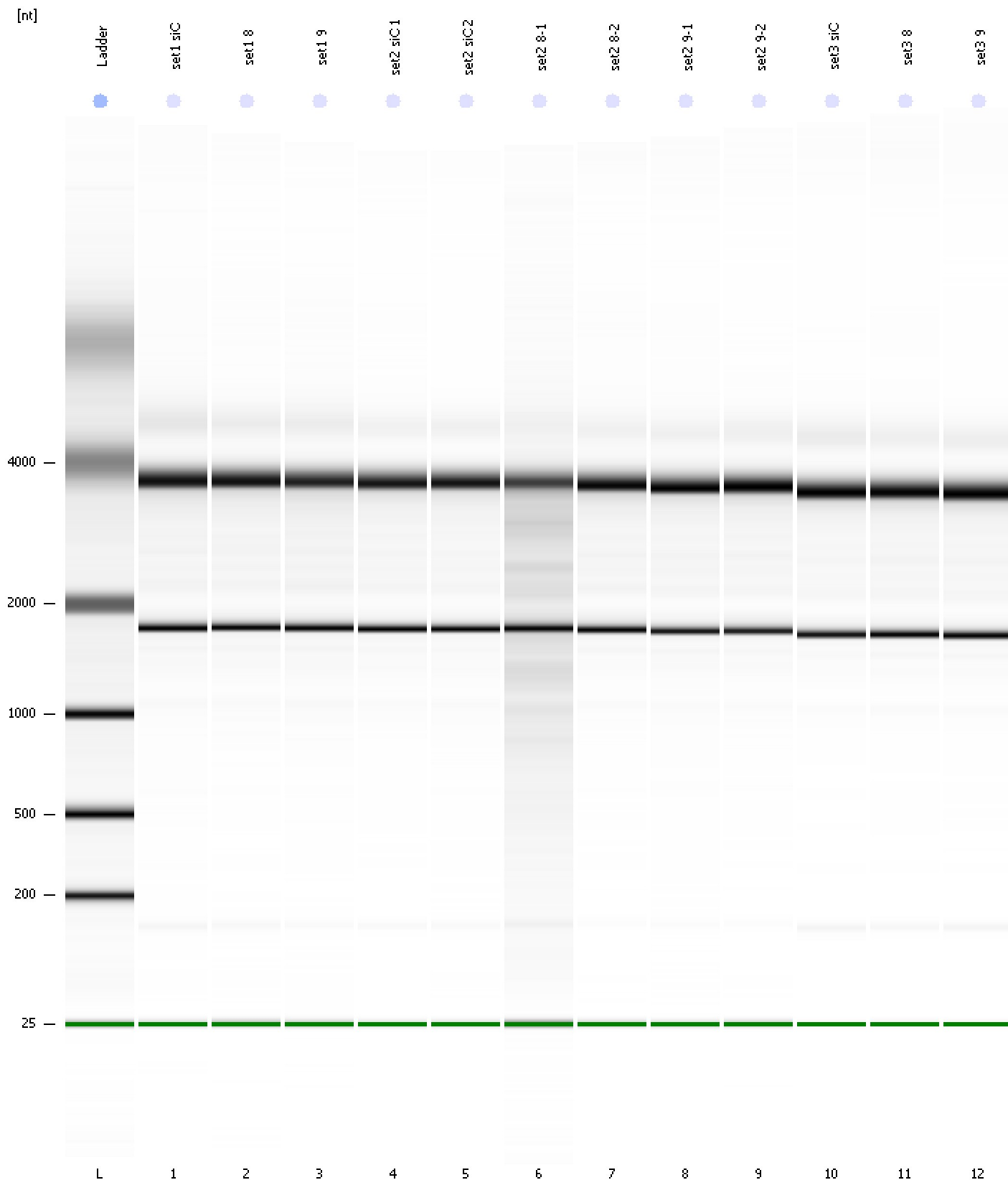
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,934	97.5	24.9
28S	2,924	4,078	199.5	51.0



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
Modified: 1/3/2013 11:48:57 AM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_001.xad

Created: 1/3/2013 11:25:08 AM  
 Modified: 1/3/2013 11:48:57 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		1/3/2013 11:48:55 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-01-03\2013-01-03_001.xad)		Instrument	Run		1/3/2013 11:25:13 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/3/2013 11:25:13 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/3/2013 11:25:13 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/3/2013 11:25:13 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/3/2013 11:25:13 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/3/2013 11:25:13 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/3/2013 11:25:13 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1