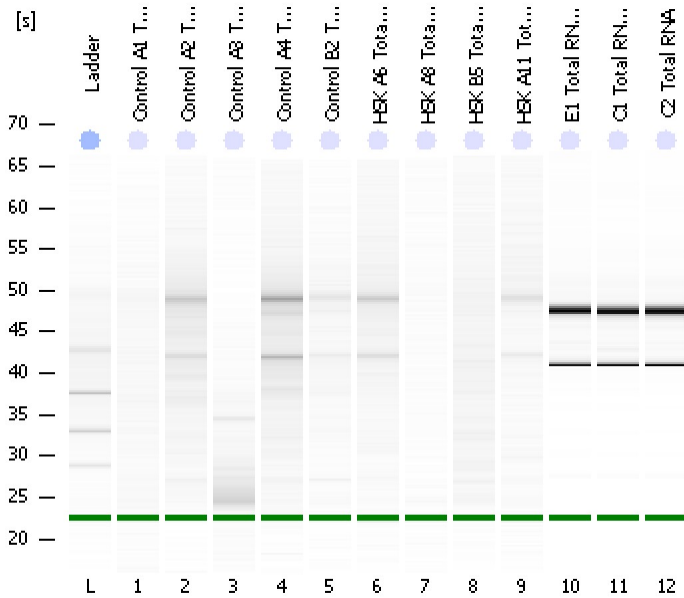


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

### Electrophoresis File Run Summary



#### Instrument Information:

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

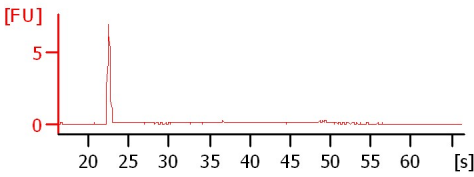
#### Assay Information:

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.

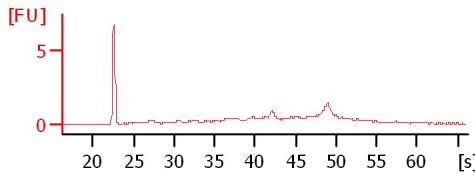
#### Chip Information:

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

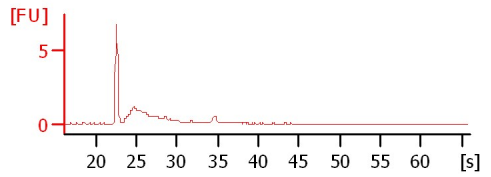
**Control A1 Total RNA**  
RIN:1



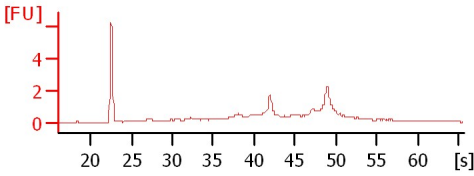
**Control A2 Total RNA**  
RIN: 3.50



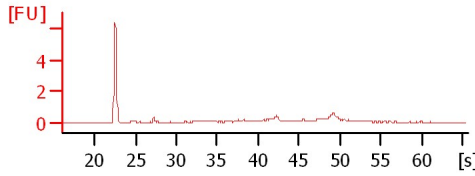
**Control A3 Total RNA**  
RIN: 1.70



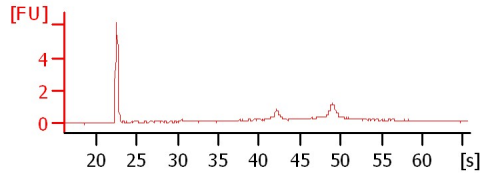
**Control A4 Total RNA**  
RIN: 6.10



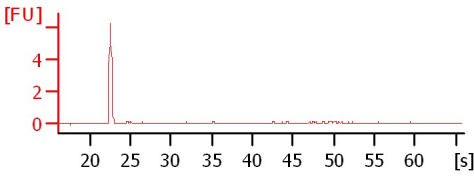
**Control B2 Total RNA**  
RIN:1



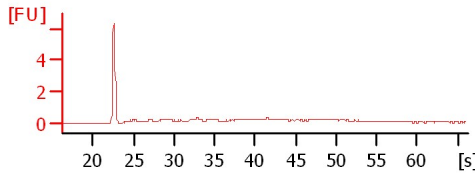
**HSK A6 Total RNA**  
RIN: 4.70



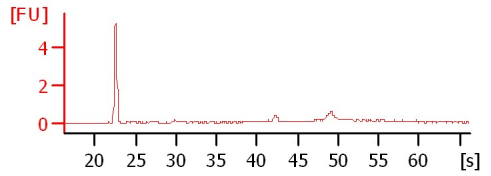
**HSK A8 Total RNA**  
RIN:1



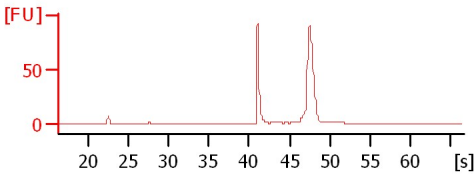
**HSK B5 Total RNA**  
RIN:1



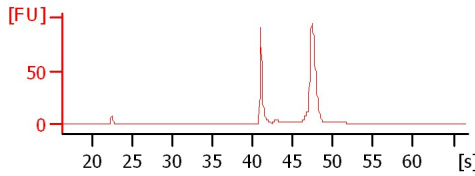
**HSK A11 Total RNA**  
RIN:1



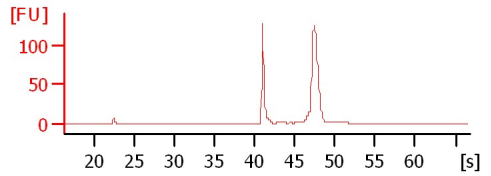
**E1 Total RNA 1:2**  
RIN:10



**C1 Total RNA 1:2**  
RIN:10



**C2 Total RNA**  
RIN:10



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Control A1 Total RNA		✓	RIN:1	
Control A2 Total RNA		✓	RIN: 3.50	
Control A3 Total RNA		✓	RIN: 1.70	
Control A4 Total RNA		✓	RIN: 6.10	
Control B2 Total RNA		✓	RIN:1	
HSK A6 Total RNA		✓	RIN: 4.70	
HSK A8 Total RNA		✓	RIN:1	
HSK B5 Total RNA		✓	RIN:1	
HSK A11 Total RNA		✓	RIN:1	
E1 Total RNA 1:2		✓	RIN:10	
C1 Total RNA 1:2		✓	RIN:10	
C2 Total RNA		✓	RIN:10	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 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

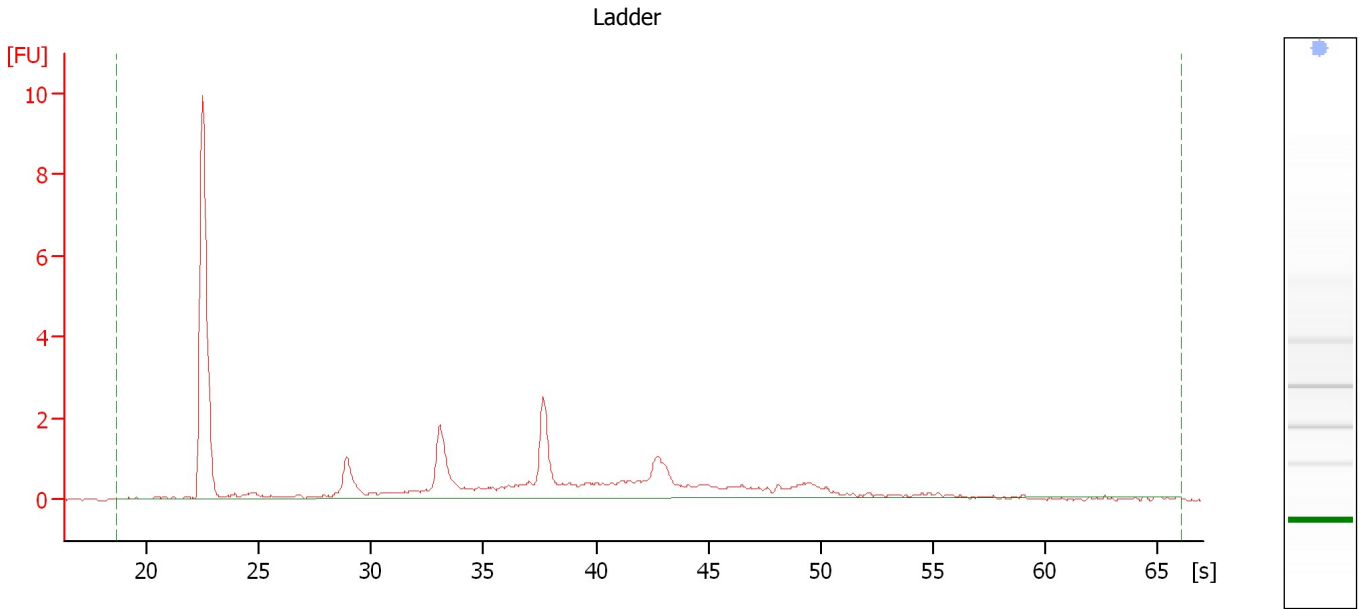
**Ladder**

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\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

**Electropherogram Summary**



**Overall Results for Ladder**

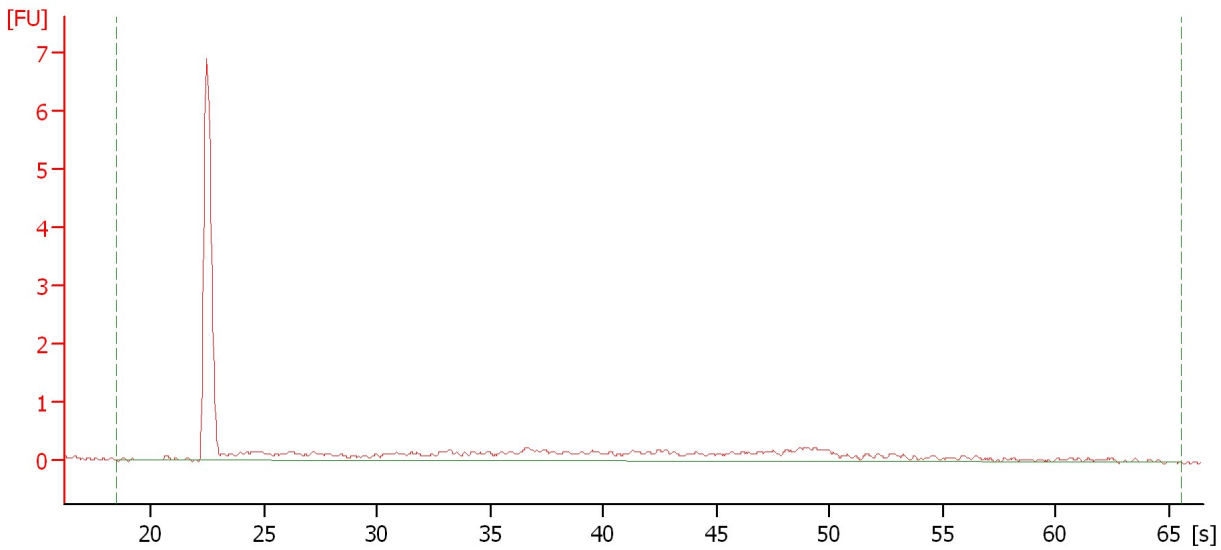
RNA Area:	23.1	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

**Electropherogram Summary Continued ...**

Control A1 Total RNA



**Overall Results for sample 1 : Control A1 Total RNA**

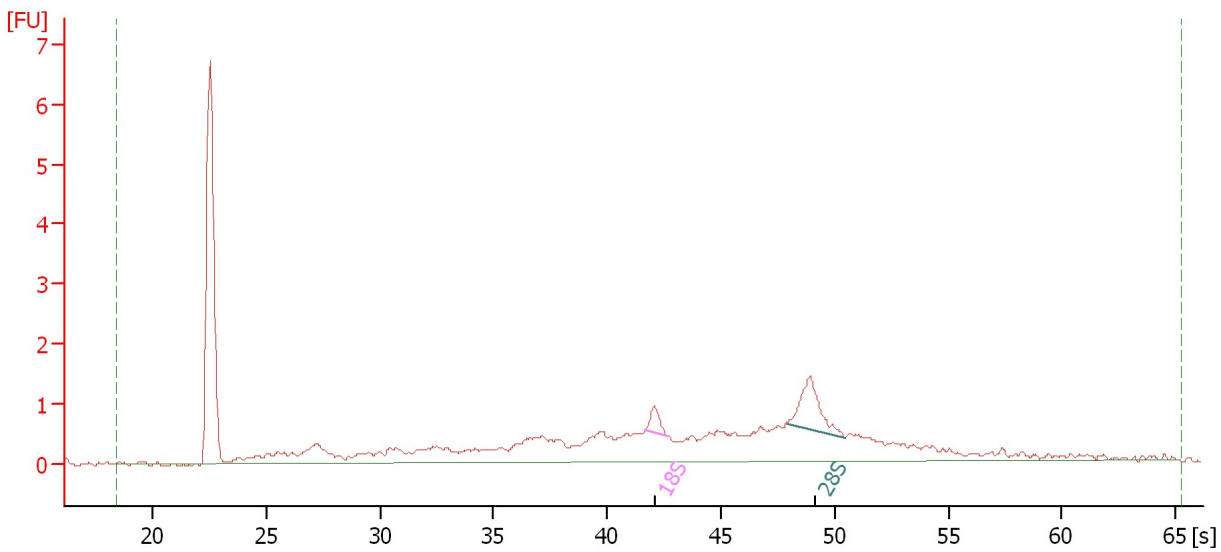
RNA Area:	11.8	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	76 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

**Electropherogram Summary Continued ...**

Control A2 Total RNA



**Overall Results for sample 2 : Control A2 Total RNA**

RNA Area: 29.5 RNA Integrity Number (RIN): 3.5 (B.02.08)  
RNA Concentration: 191 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 3.5 Result Flagging Label: RIN: 3.50

**Fragment table for sample 2 : Control A2 Total RNA**

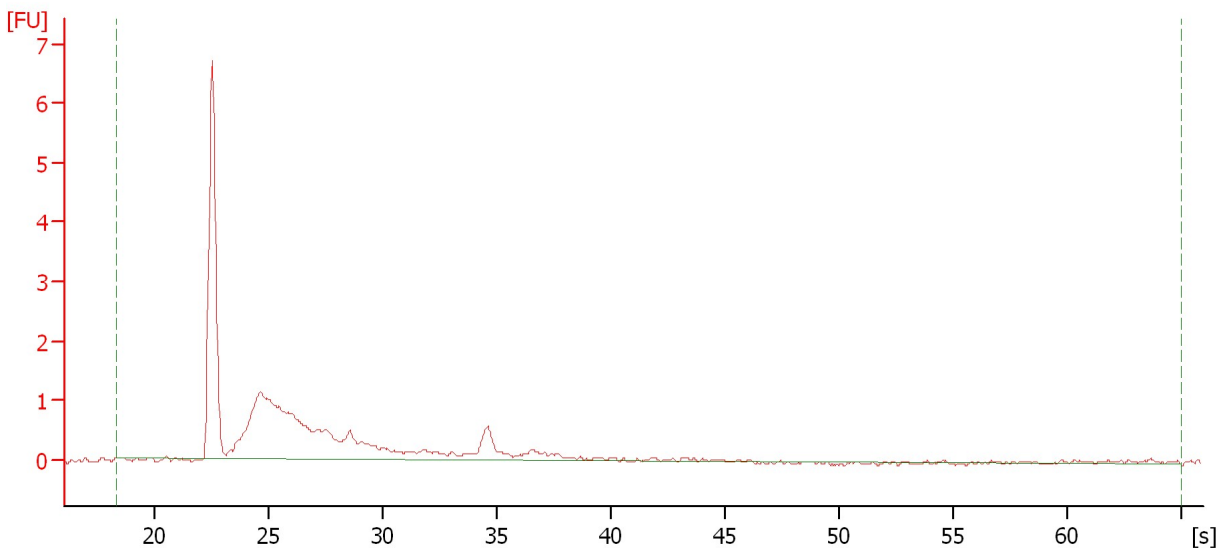
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.69	42.59	0.5	1.6
28S	47.93	50.48	1.7	5.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

**Electropherogram Summary Continued ...**

Control A3 Total RNA



**Overall Results for sample 3 : Control A3 Total RNA**

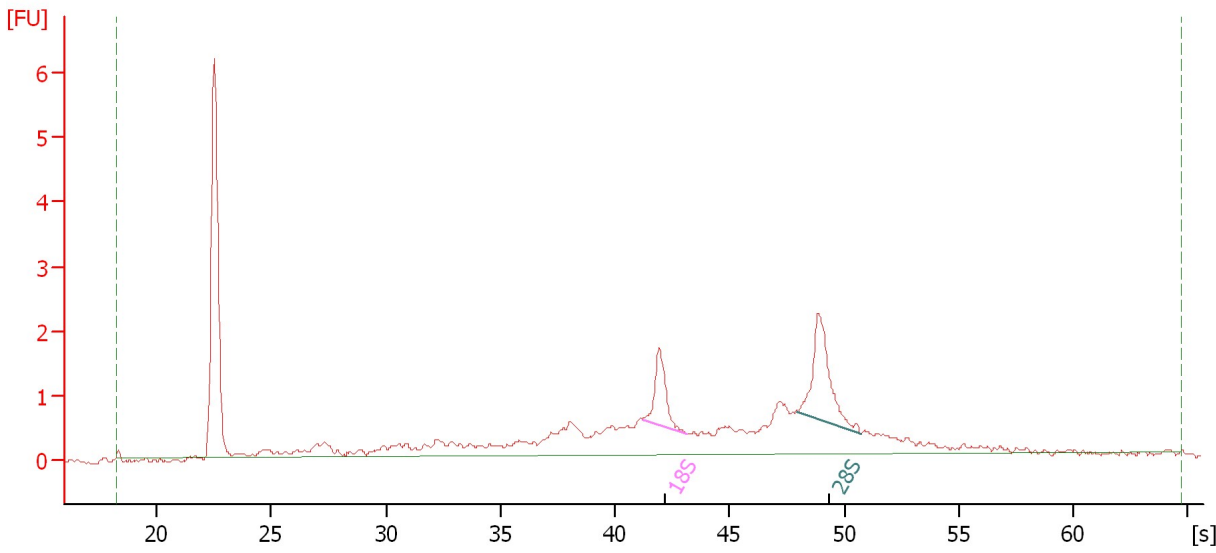
RNA Area:	17.8	RNA Integrity Number (RIN):	1.7 (B.02.08)
RNA Concentration:	115 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.70

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

**Electropherogram Summary Continued ...**

Control A4 Total RNA



**Overall Results for sample 4 : Control A4 Total RNA**

RNA Area: 26.9                      RNA Integrity Number (RIN): 6.1 (B.02.08)  
RNA Concentration: 174 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.9              Result Flagging Label: RIN: 6.10

**Fragment table for sample 4 : Control A4 Total RNA**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.20	43.13	1.5	5.6
28S	47.95	50.72	2.9	10.6

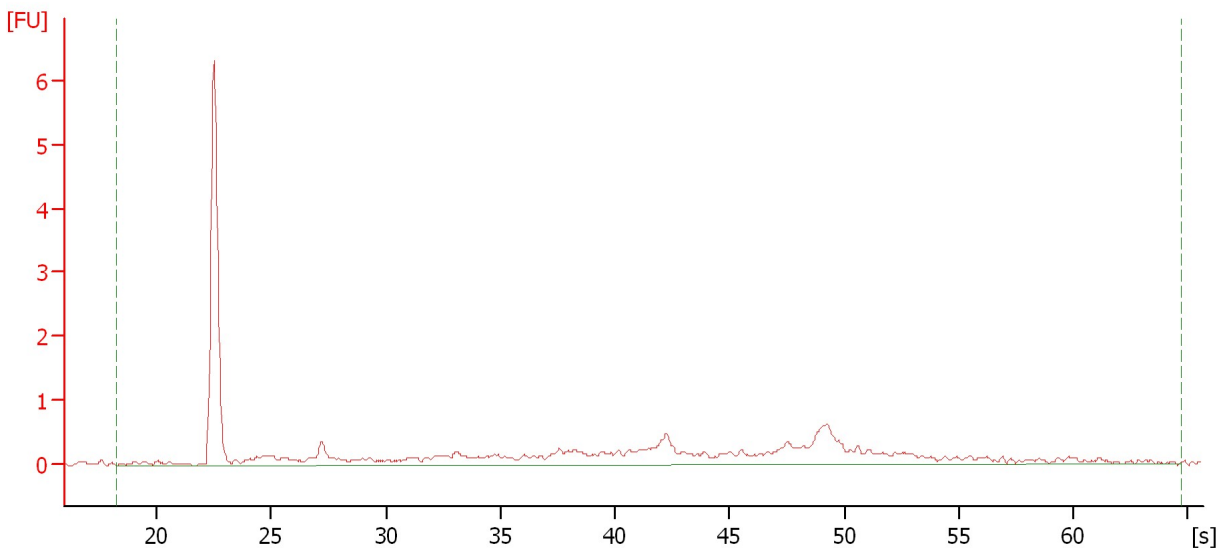


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

**Electropherogram Summary Continued ...**

Control B2 Total RNA



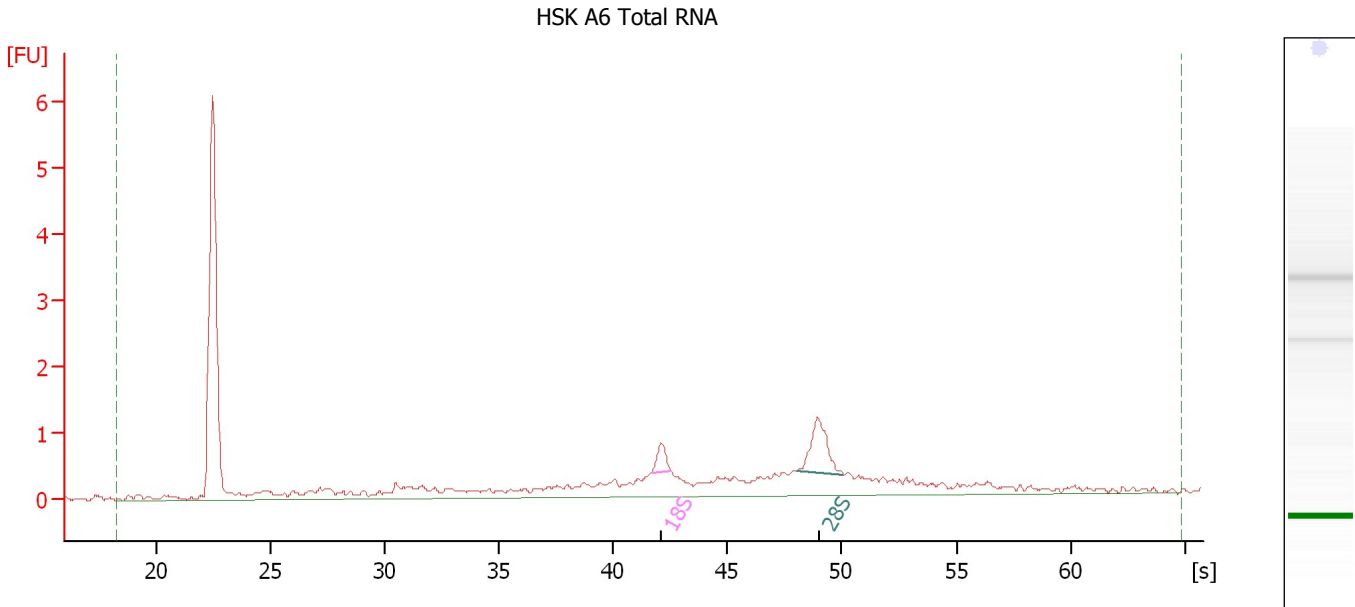
**Overall Results for sample 5 : Control B2 Total RNA**

RNA Area:	14.7	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	95 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]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : HSK A6 Total RNA**

RNA Area: 18.3 RNA Integrity Number (RIN): 4.7 (B.02.08)  
RNA Concentration: 119 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 3.2 Result Flagging Label: RIN: 4.70

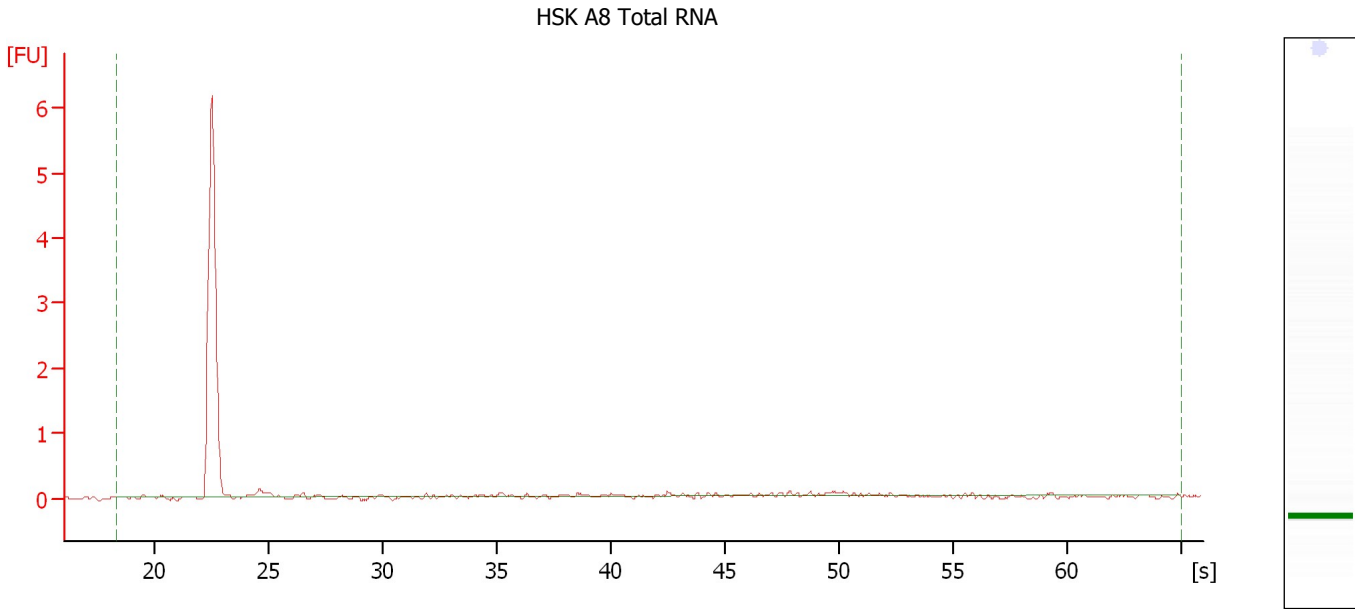
**Fragment table for sample 6 : HSK A6 Total RNA**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.71	42.56	0.4	2.4
28S	48.01	50.07	1.4	7.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

**Electropherogram Summary Continued ...**



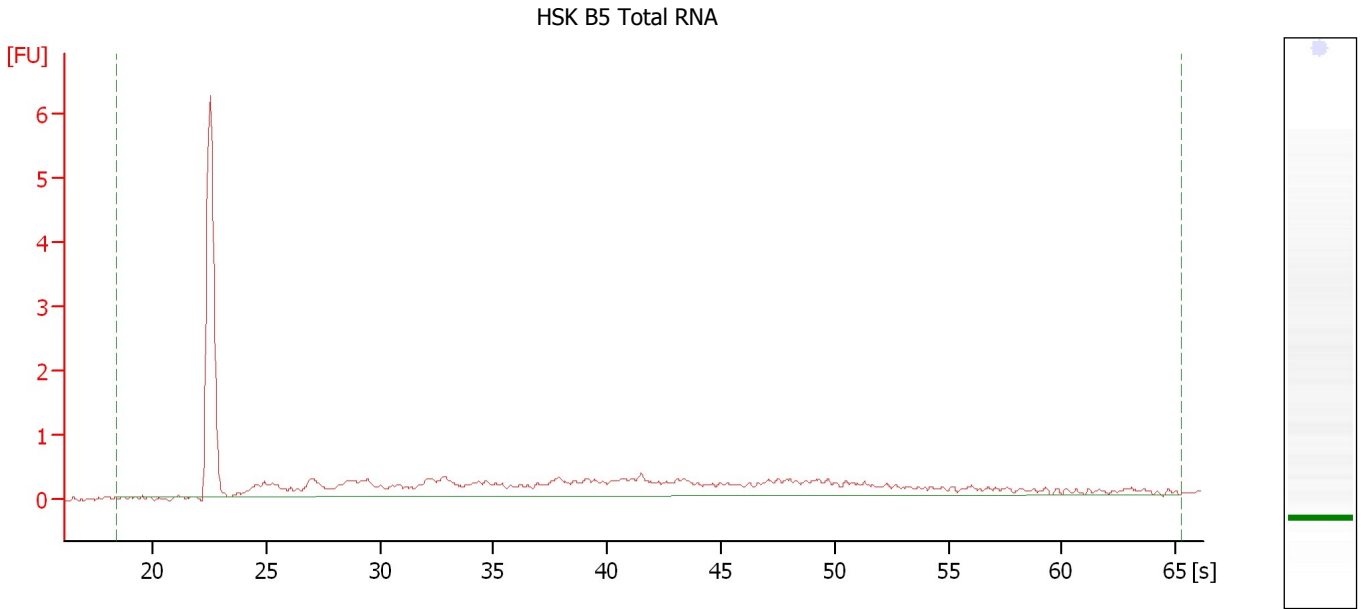
**Overall Results for sample 7 : HSK A8 Total RNA**

RNA Area:	1.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	12 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]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

**Electropherogram Summary Continued ...**



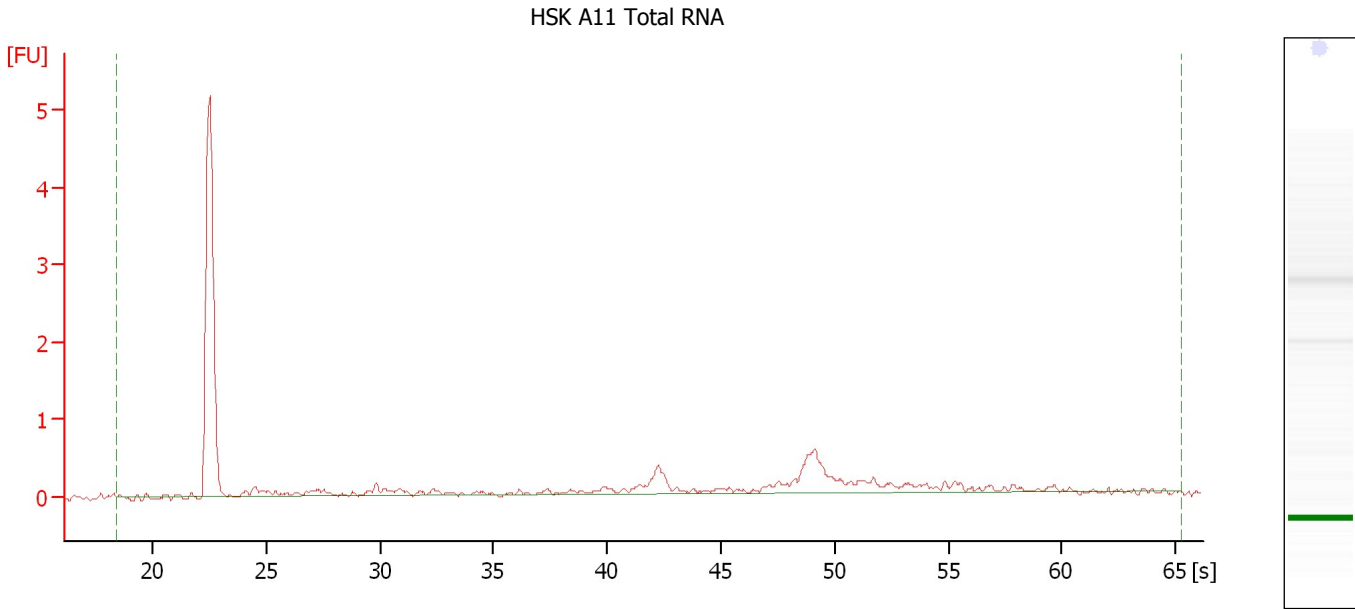
**Overall Results for sample 8 : HSK B5 Total RNA**

RNA Area:	17.0	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	110 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]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

**Electropherogram Summary Continued ...**



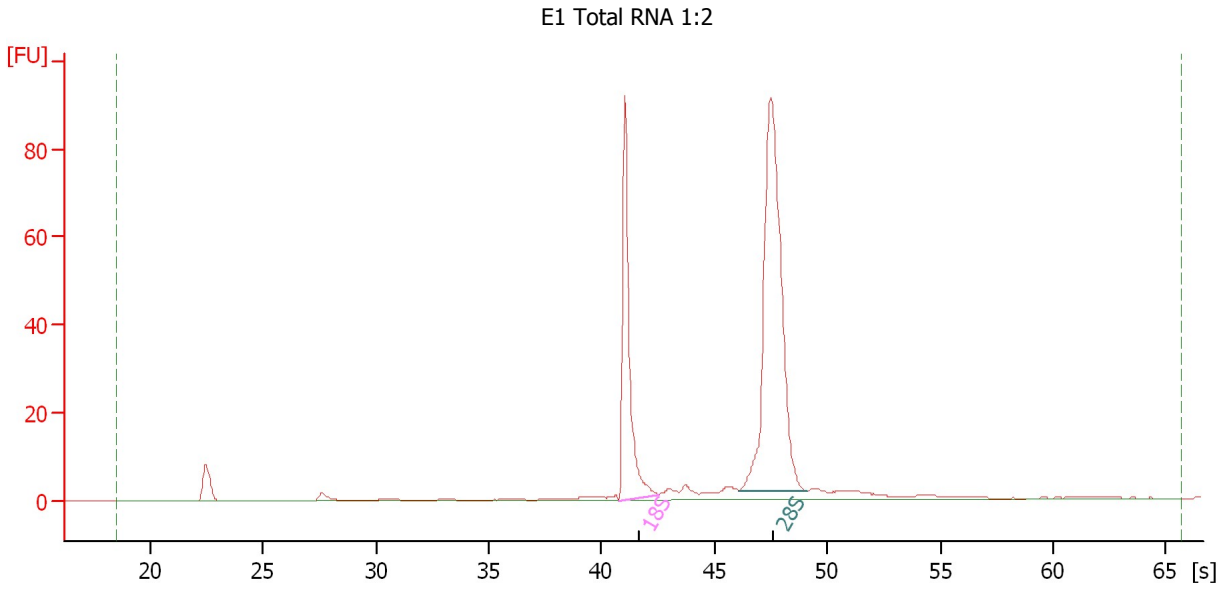
**Overall Results for sample 9 : HSK A11 Total RNA**

RNA Area:	6.7	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	43 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]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : E1 Total RNA 1:2**

RNA Area: 302.1                      RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 1,959 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.1                      Result Flagging Label: RIN:10

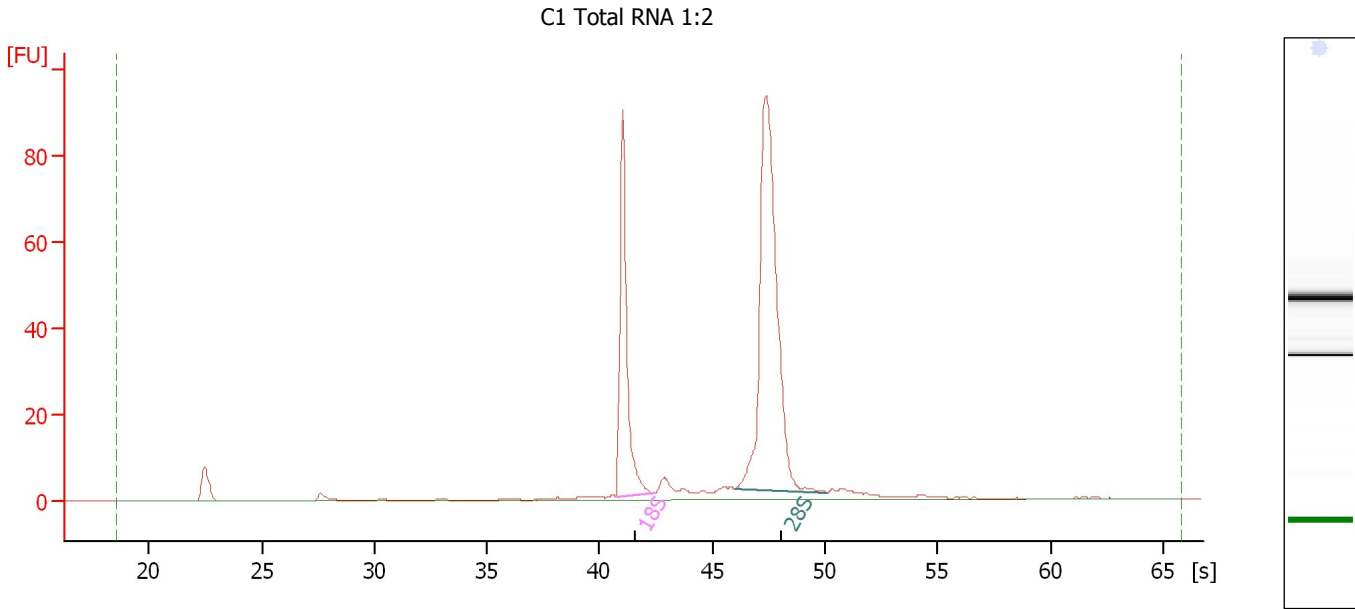
**Fragment table for sample 10 : E1 Total RNA 1:2**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.77	42.53	78.8	26.1
28S	46.09	49.14	165.6	54.8

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
 Modified: 4/25/2013 12:00:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : C1 Total RNA 1:2**

RNA Area: 304.5 RNA Integrity Number (RIN): 10 (B.02.08)  
 RNA Concentration: 1,974 ng/μl Result Flagging Color:   
 rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN:10

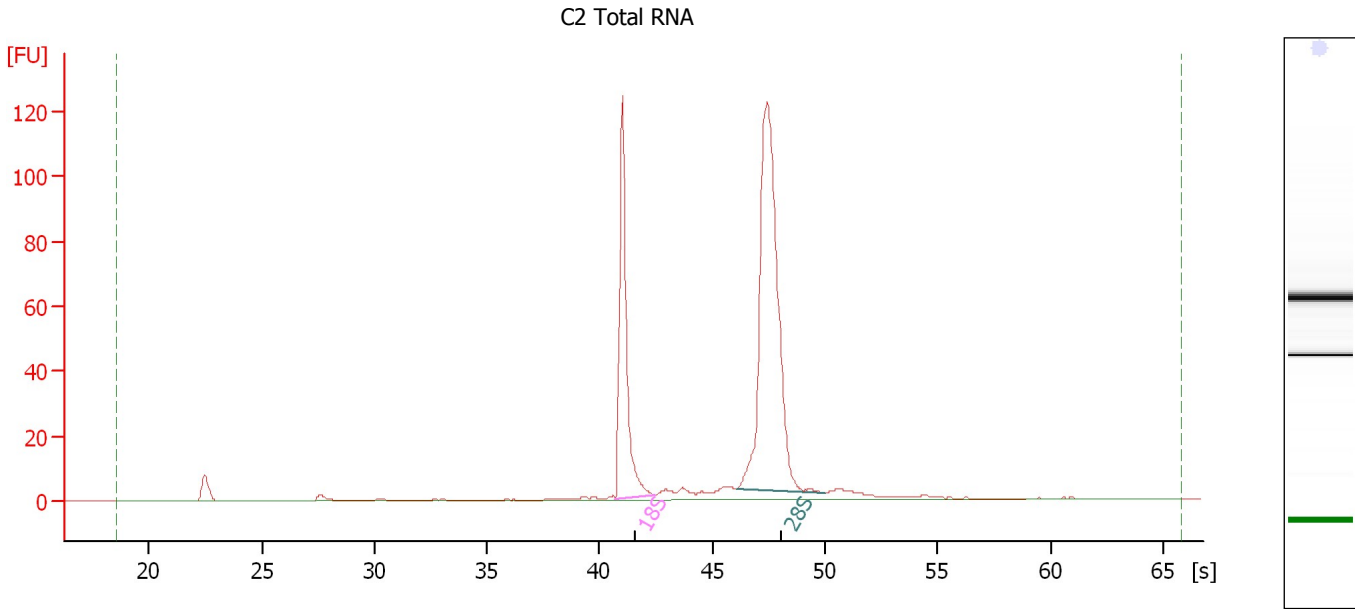
**Fragment table for sample 11 : C1 Total RNA 1:2**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.76	42.43	77.7	25.5
28S	46.00	50.05	165.2	54.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : C2 Total RNA**

RNA Area: 412.8                      RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 2,677 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.1                      Result Flagging Label: RIN:10

**Fragment table for sample 12 : C2 Total RNA**

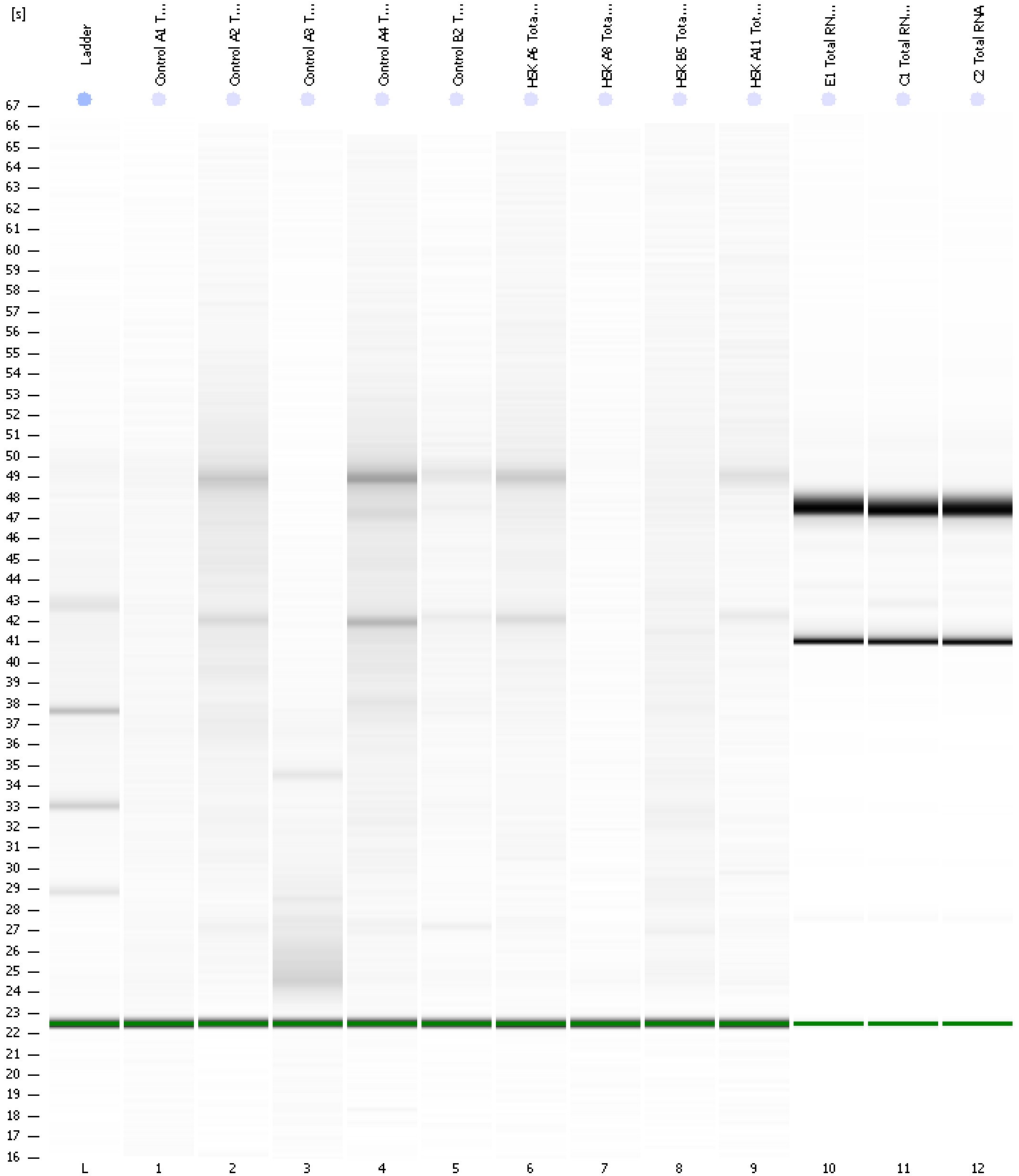
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.71	42.47	106.7	25.8
28S	46.10	50.01	228.4	55.3



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
Modified: 4/25/2013 12:00:23 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25\_003.xad

Created: 4/25/2013 11:36:31 AM  
 Modified: 4/25/2013 12:00:23 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		4/25/2013 12:00:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-04-25\2013-04-25_003.xad)		Instrument	Run		4/25/2013 11:36:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/25/2013 11:36:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/25/2013 11:36:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/25/2013 11:36:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/25/2013 11:36:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/25/2013 11:36:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/25/2013 11:36:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1