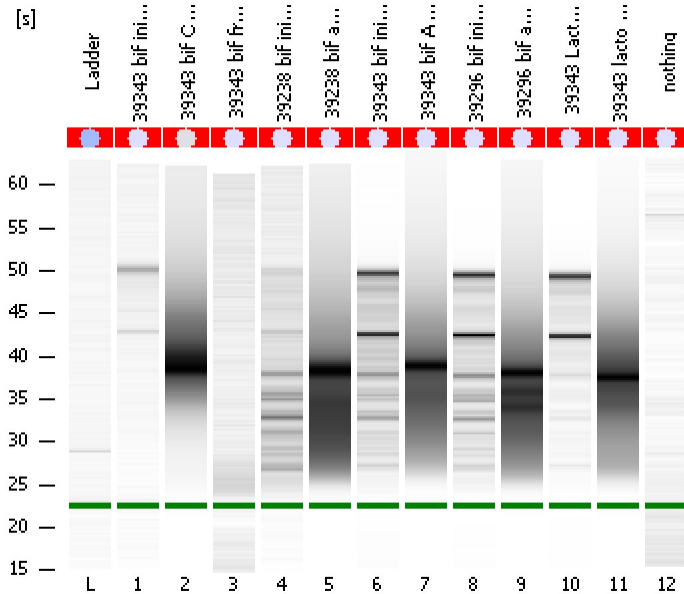


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 PM

Electrophoresis File Run Summary



Instrument Information:

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

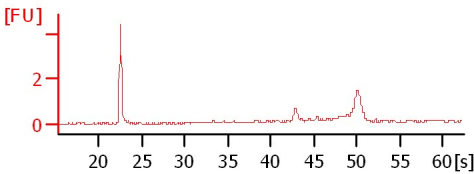
Assay Information:

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.

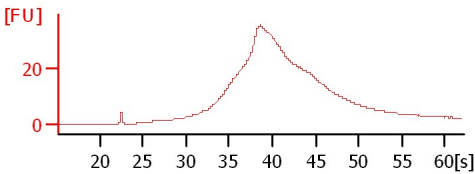
Chip Information:

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

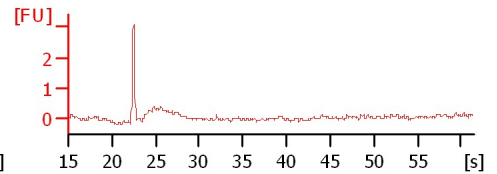
**39343 bif initial C**  
RIN: 8.30



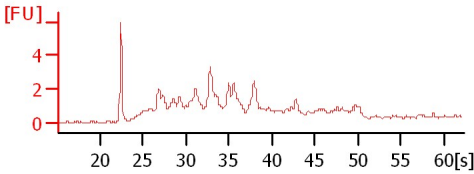
**39343 bif C aRNA**  
RIN N/A



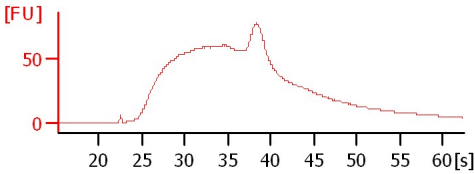
**39343 bif frag aRNA**  
RIN: 1.60



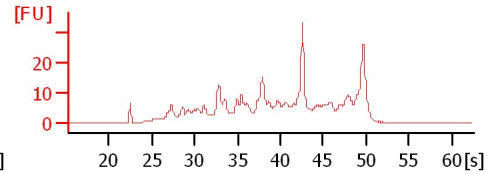
**39238 bif initial B**  
RIN: 4.30



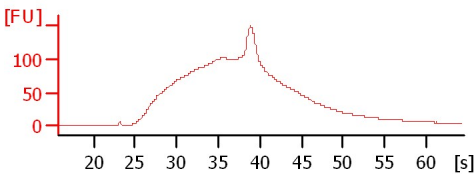
**39238 bif aRNA**  
RIN: 3.10



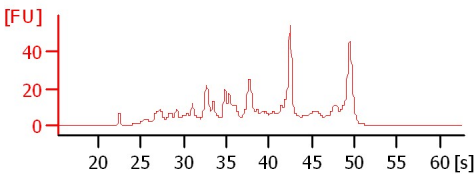
**39343 bif initial A**  
RIN: 5.80



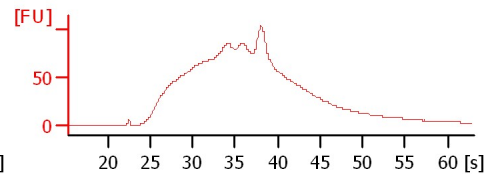
**39343 bif A aRNA**  
RIN: 3.10



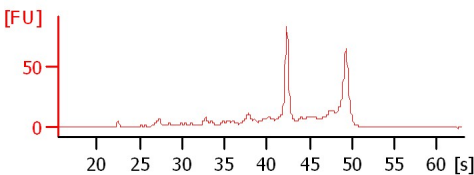
**39296 bif initial A**  
RIN: 6



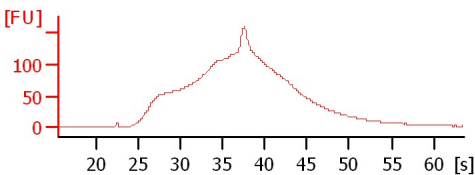
**39296 bif aRNA**  
RIN: 2.80



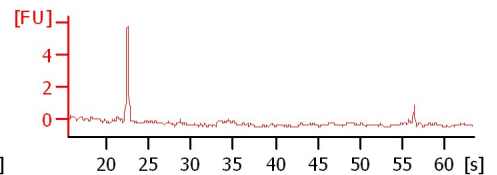
**39343 Lacto initial A**  
RIN: 7.40



**39343 lacto aRNA**  
RIN: 1.70



**nothing**  
RIN: 1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
39343 bif initial C		✓	RIN: 8.30	
39343 bif C aRNA		✓	RIN N/A	
39343 bif frag aRNA		✓	RIN: 1.60	
39238 bif initial B		✓	RIN: 4.30	
39238 bif aRNA		✓	RIN: 3.10	
39343 bif initial A		✓	RIN: 5.80	
39343 bif A aRNA		✓	RIN: 3.10	
39296 bif initial A		✓	RIN:6	
39296 bif aRNA		✓	RIN: 2.80	
39343 Lacto intial A		✓	RIN: 7.40	
39343 lacto aRNA		✓	RIN: 1.70	
nothing		✓	RIN:1	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 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

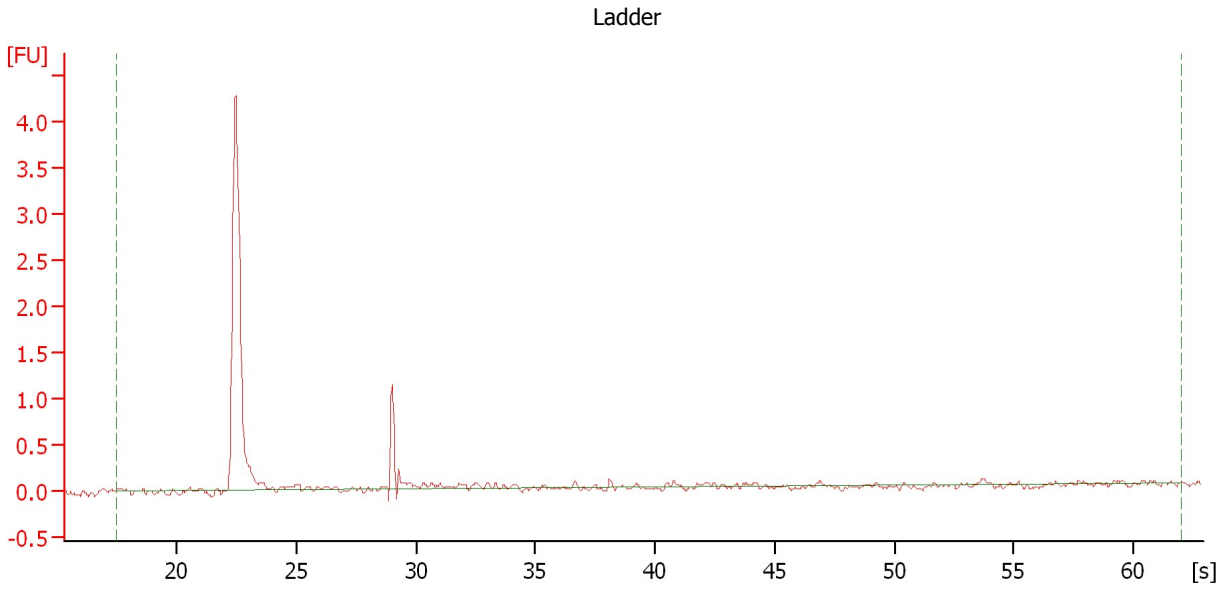
**Ladder**

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\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 PM

**Electropherogram Summary**



**Overall Results for Ladder**

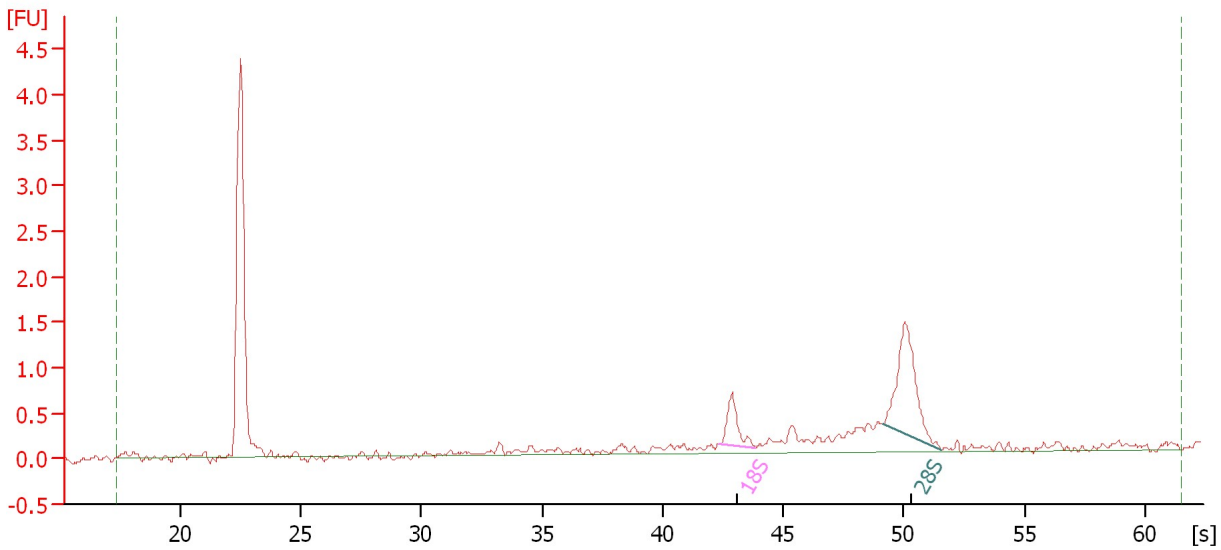
RNA Area:	1.9	Result Flagging Color:	<span style="background-color: #ADD8E6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
 Modified: 7/24/2013 12:24:25 PM

**Electropherogram Summary Continued ...**

39343 bif initial C



**Overall Results for sample 1 : 39343 bif initial C**

RNA Area:	8.3	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	648 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]:	3.3	Result Flagging Label:	RIN: 8.30

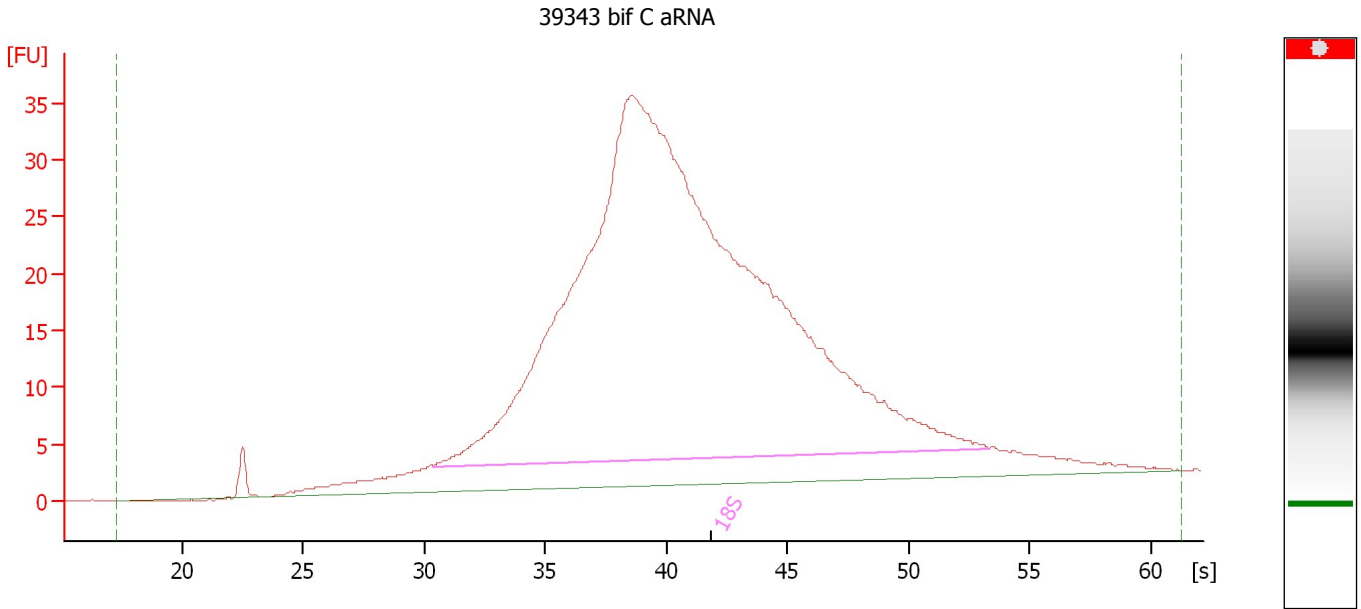
**Fragment table for sample 1 : 39343 bif initial C**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	0.7	8.0
28S	0	0	2.2	26.2

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
 Modified: 7/24/2013 12:24:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 39343 bif C aRNA**

RNA Area:	828.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	64,703 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

**Fragment table for sample 2 : 39343 bif C aRNA**

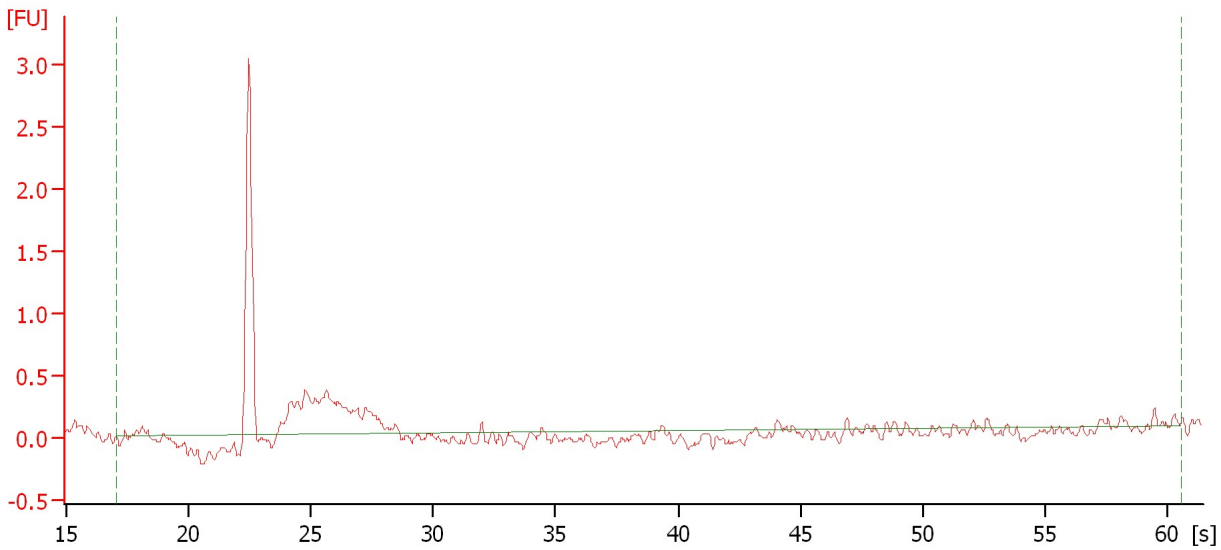
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	660.8	79.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 PM

**Electropherogram Summary Continued ...**

39343 bif frag aRNA



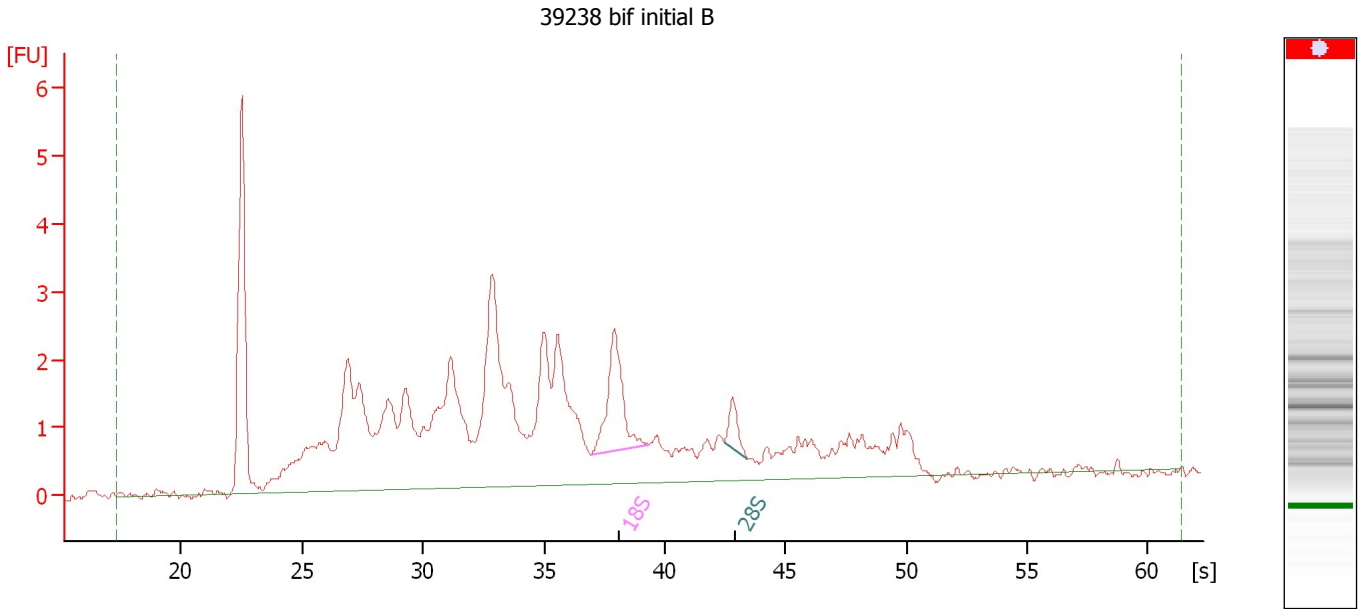
**Overall Results for sample 3 : 39343 bif frag aRNA**

RNA Area:	4.0	RNA Integrity Number (RIN):	1.6 (B.02.08)
RNA Concentration:	314 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: 1.60

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 39238 bif initial B**

RNA Area: 67.5 RNA Integrity Number (RIN): 4.3 (B.02.08)  
RNA Concentration: 5,274 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.2 Result Flagging Label: RIN: 4.30

**Fragment table for sample 4 : 39238 bif initial B**

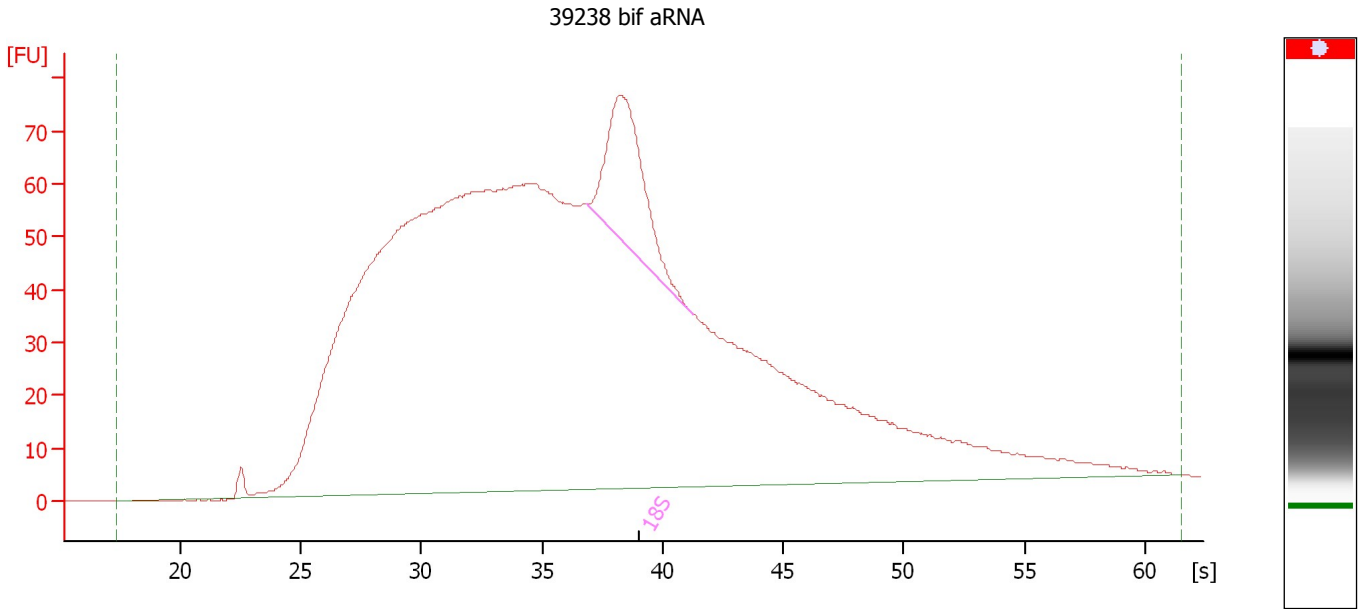
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	3.3	4.9
28S	0	0	0.7	1.0



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 39238 bif aRNA**

RNA Area: 2,927.5 RNA Integrity Number (RIN): 3.1 (B.02.08)  
RNA Concentration: 228,742 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 3.10

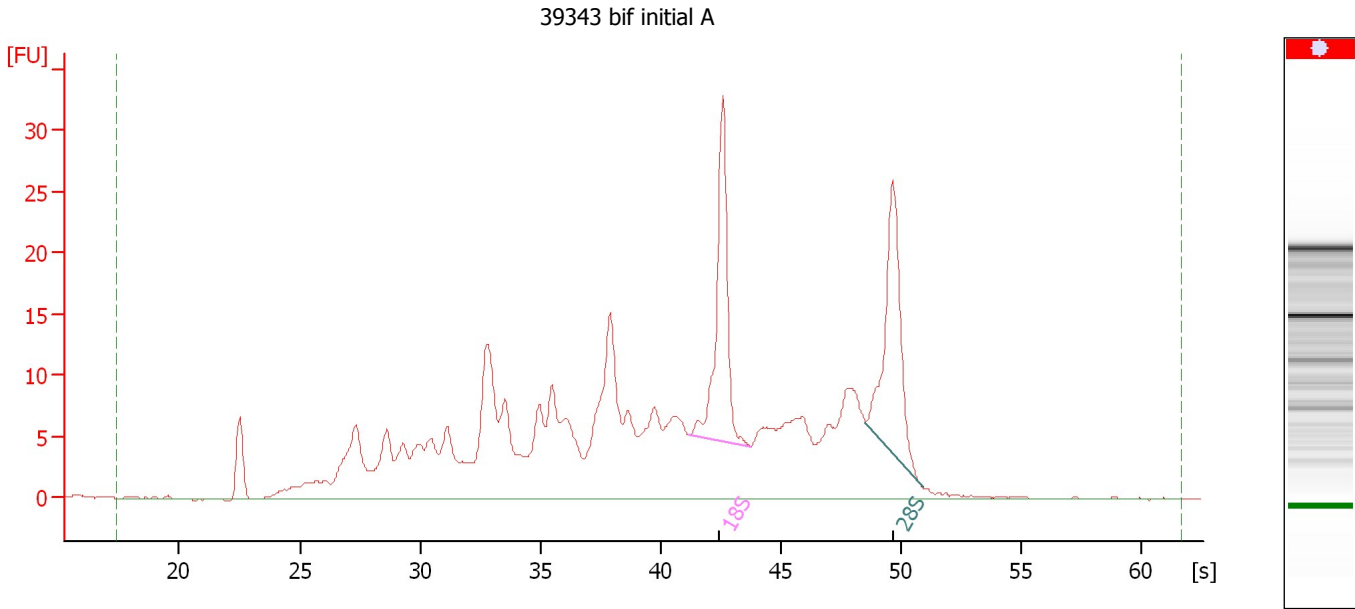
**Fragment table for sample 5 : 39238 bif aRNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	127.1	4.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 39343 bif initial A**

RNA Area: 432.7 RNA Integrity Number (RIN): 5.8 (B.02.08)  
RNA Concentration: 33,811 ng/µl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 5.80

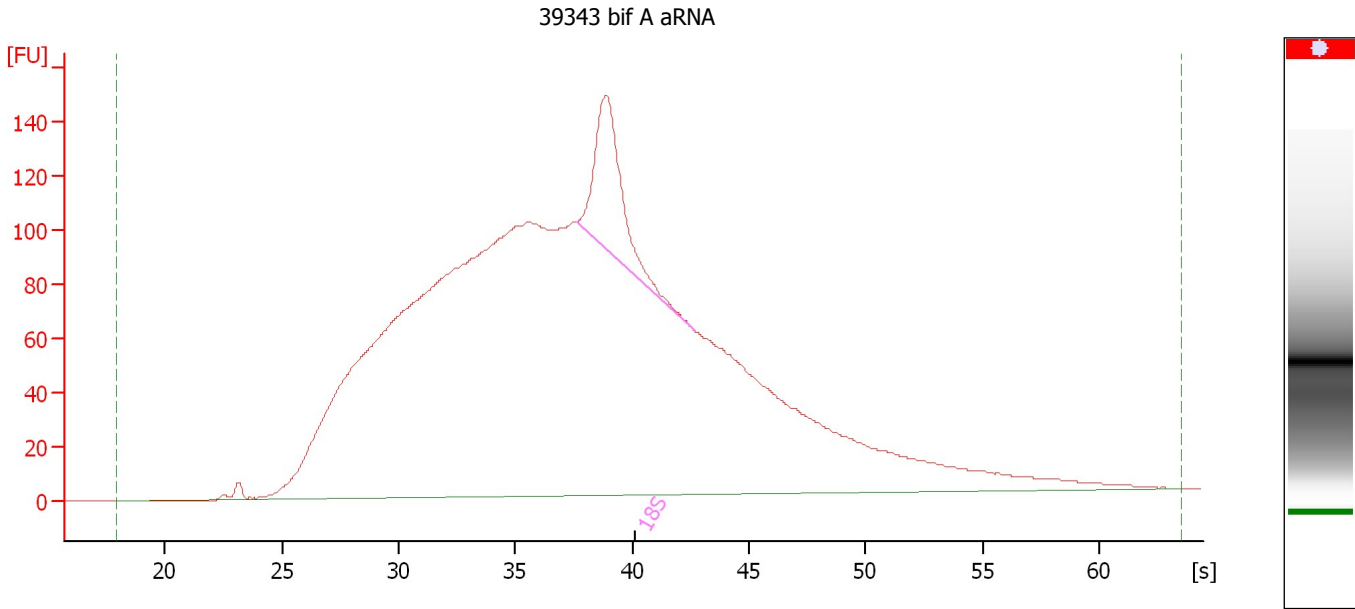
**Fragment table for sample 6 : 39343 bif initial A**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	33.4	7.7
28S	0	0	32.9	7.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 39343 bif A aRNA**

RNA Area:	4,654.5	RNA Integrity Number (RIN):	3.1 (B.02.08)
RNA Concentration:	363,686 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: 3.10

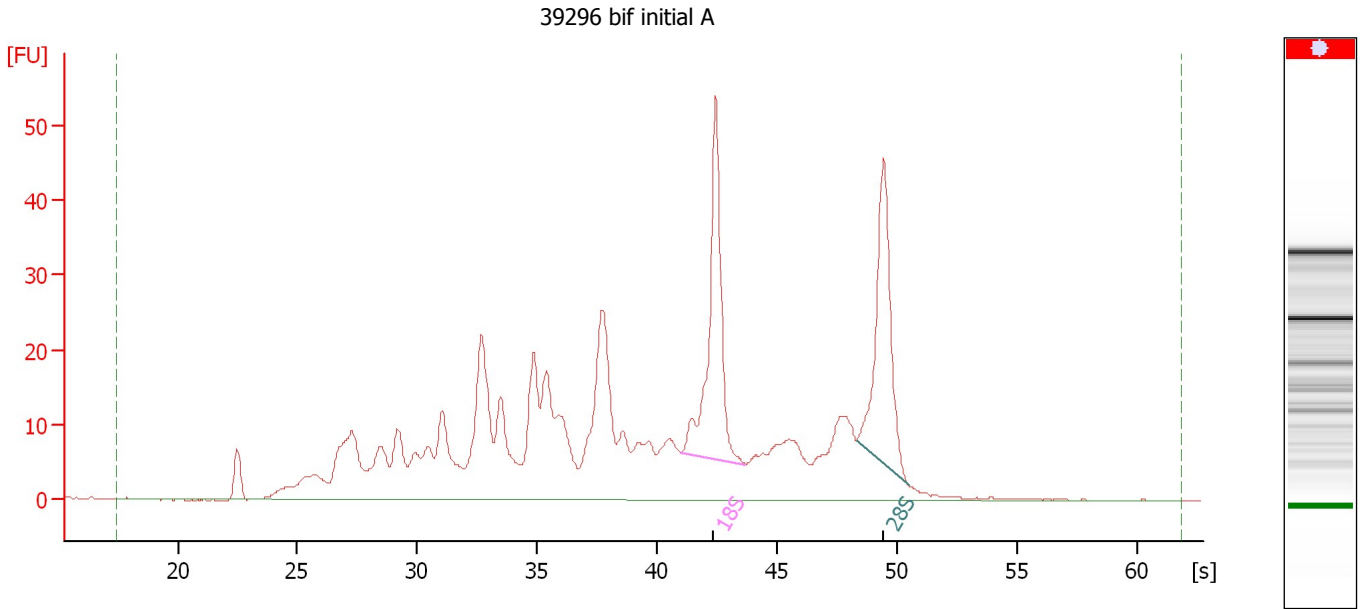
**Fragment table for sample 7 : 39343 bif A aRNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	198.0	4.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 39296 bif initial A**

RNA Area: 650.1 RNA Integrity Number (RIN): 6 (B.02.08)  
RNA Concentration: 50,795 ng/µl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN:6

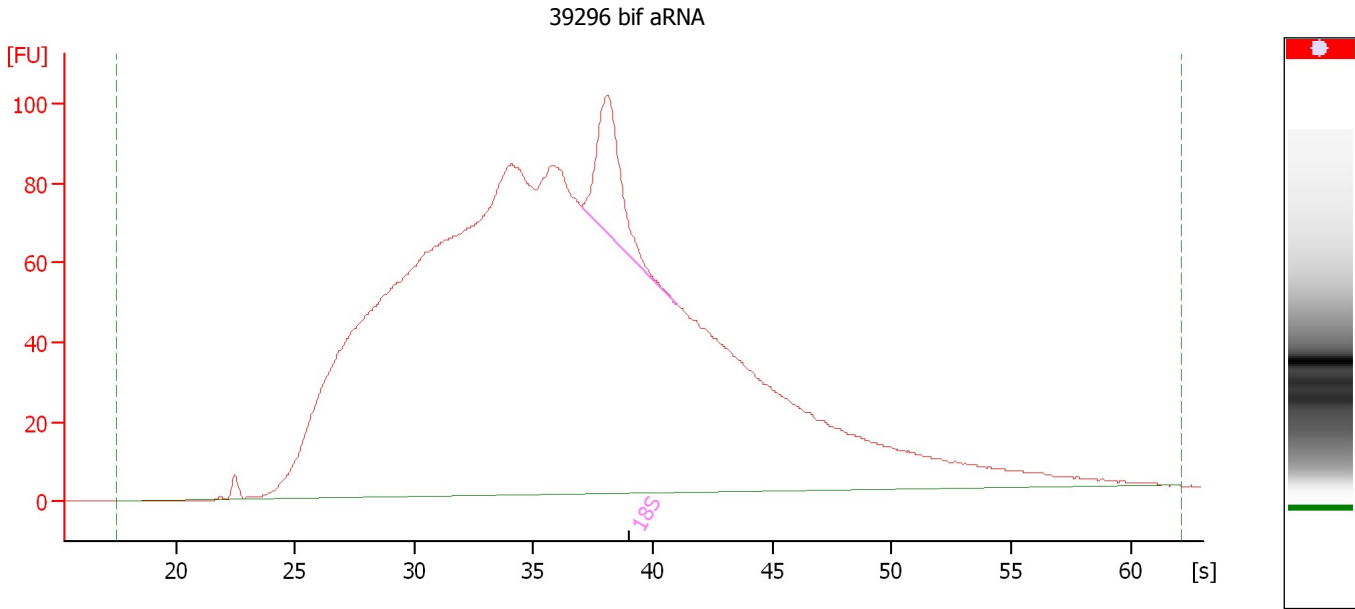
**Fragment table for sample 8 : 39296 bif initial A**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	65.5	10.1
28S	0	0	57.2	8.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 39296 bif aRNA**

RNA Area:	3,583.8	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	280,027 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: 2.80

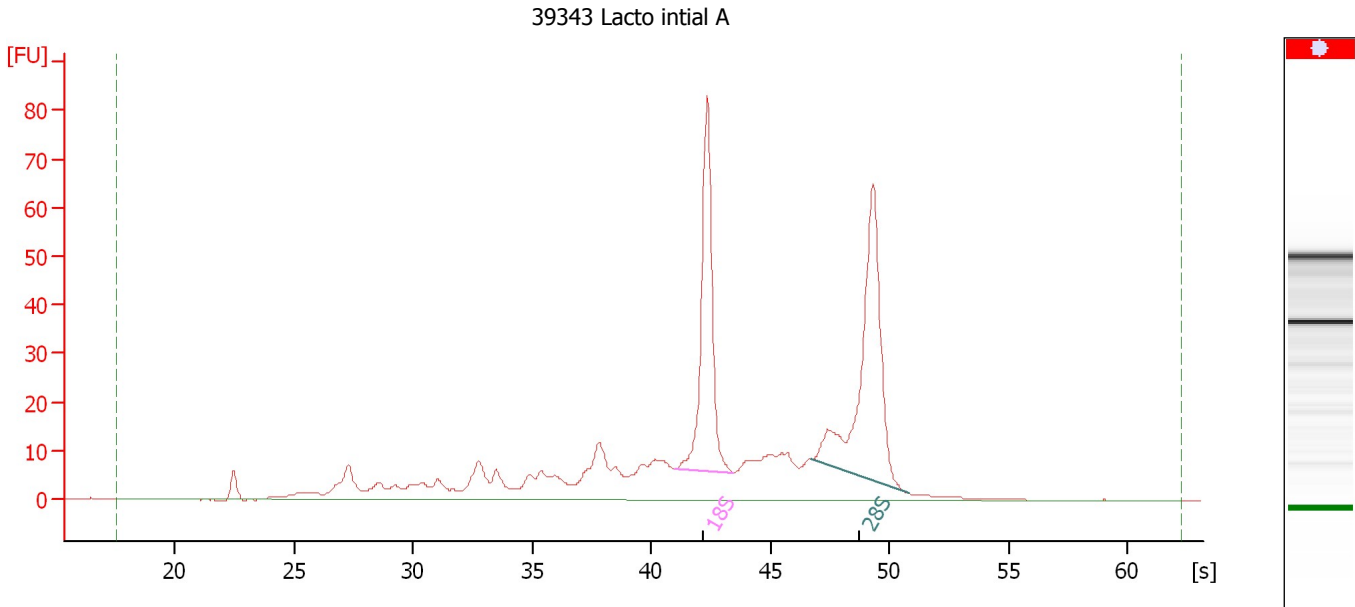
**Fragment table for sample 9 : 39296 bif aRNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	107.1	3.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 39343 Lacto intial A**

RNA Area: 548.7 RNA Integrity Number (RIN): 7.4 (B.02.08)  
RNA Concentration: 42,877 ng/µl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 7.40

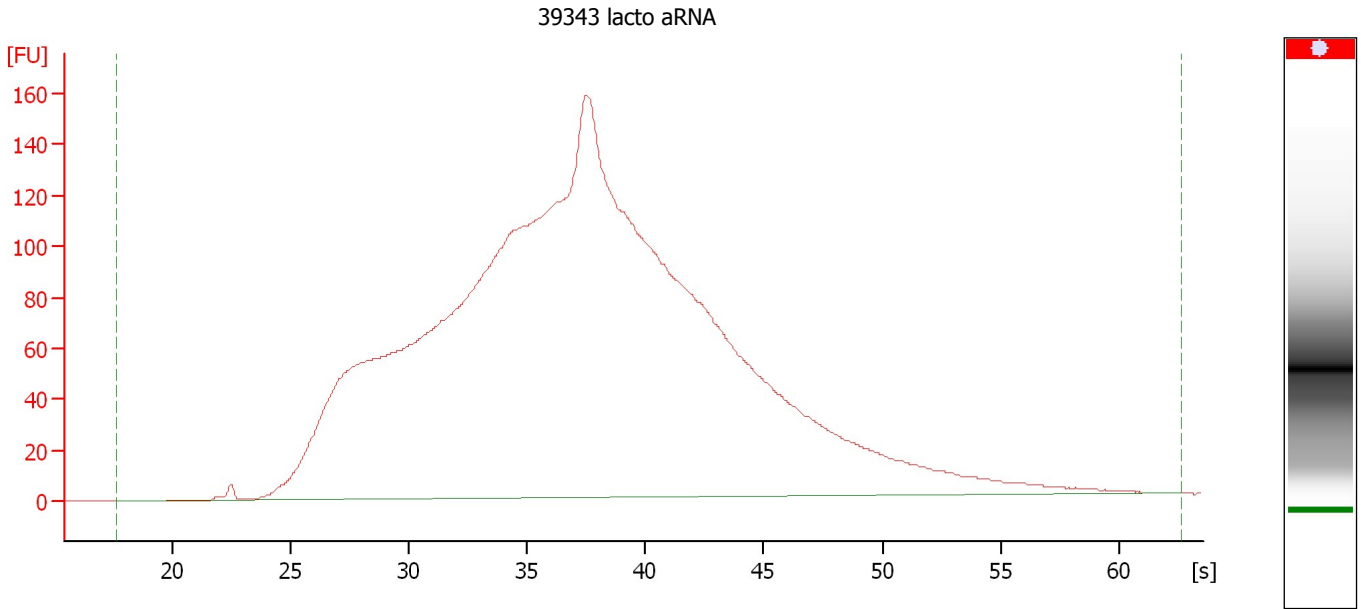
**Fragment table for sample 10 : 39343 Lacto intial A**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	92.6	16.9
28S	0	0	117.5	21.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 PM

**Electropherogram Summary Continued ...**



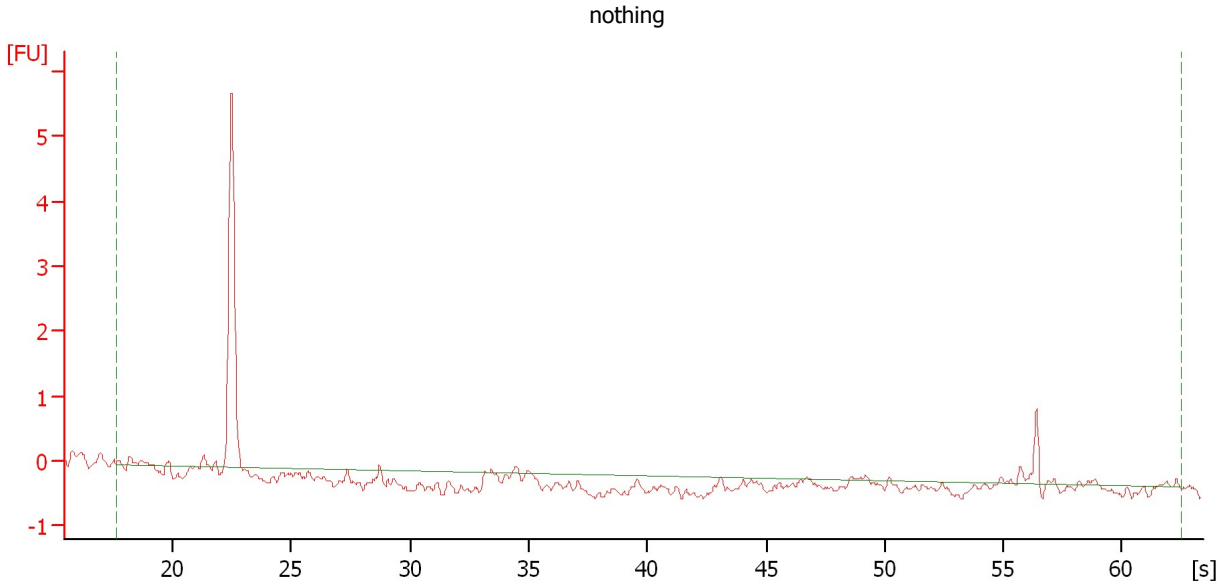
**Overall Results for sample 11 : 39343 lacto aRNA**

RNA Area:	4,938.2	RNA Integrity Number (RIN):	1.7 (B.02.08)
RNA Concentration:	385,850 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\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : nothing**

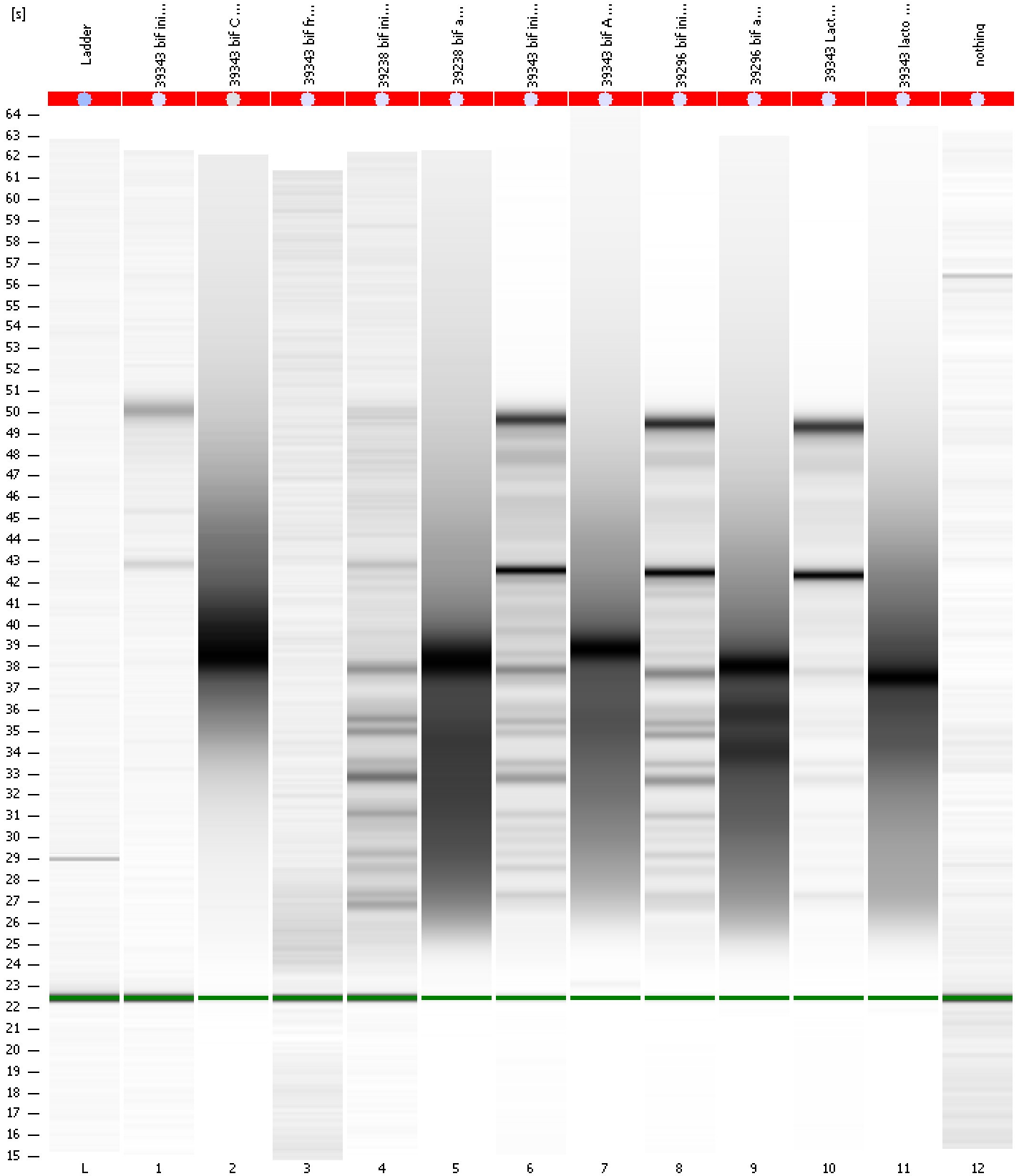
RNA Area:	1.6	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	121 ng/ $\mu$ l	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
Modified: 7/24/2013 12:24:25 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-24\2013-07-24\_003.xad

Created: 7/24/2013 11:48:22 AM  
 Modified: 7/24/2013 12:24:25 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		7/24/2013 12:12:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-24\2013-07-24_003.xad)		Instrument	Run		7/24/2013 11:48:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/24/2013 11:48:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/24/2013 11:48:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/24/2013 11:48:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/24/2013 11:48:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/24/2013 11:48:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/24/2013 11:48:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1