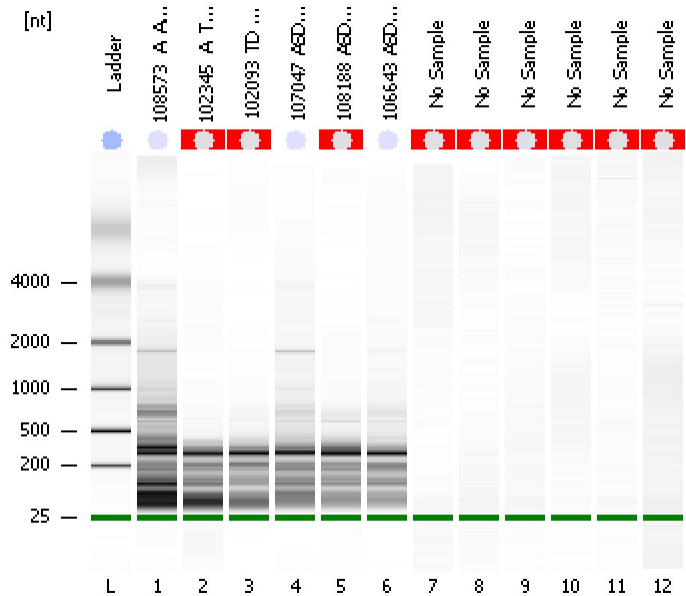


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

### Electrophoresis File Run Summary



#### Instrument Information:

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

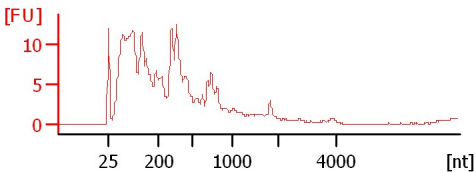
#### Assay Information:

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.

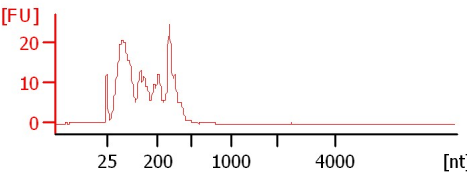
#### Chip Information:

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

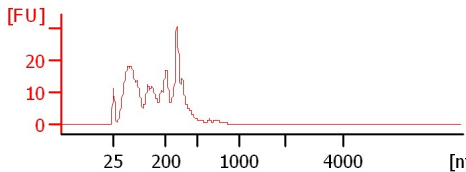
**108573\_A\_ASD Male**  
RIN: 2.60



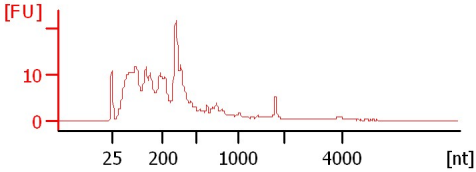
**102345\_A\_TD Male**  
RIN N/A



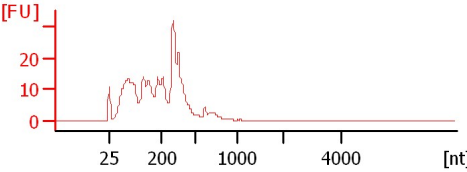
**102093 TD Male**  
RIN N/A



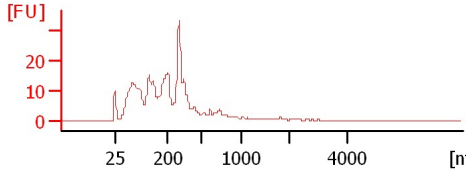
**107047 ASD Male**  
RIN: 2.60



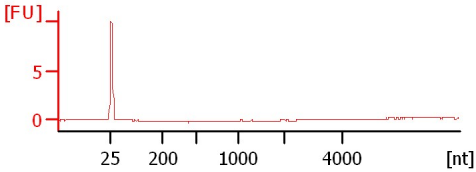
**108188 ASD Male**  
RIN N/A



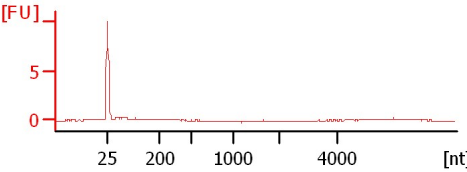
**106643 ASD Male**  
RIN: 2.20



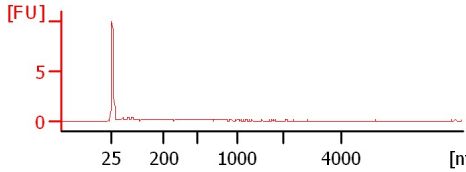
**No Sample**  
RIN N/A



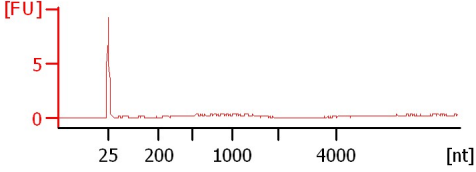
**No Sample**  
RIN N/A



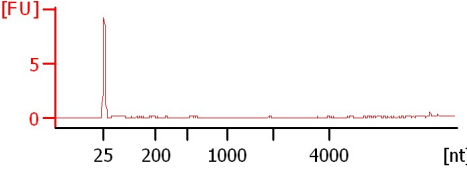
**No Sample**  
RIN N/A



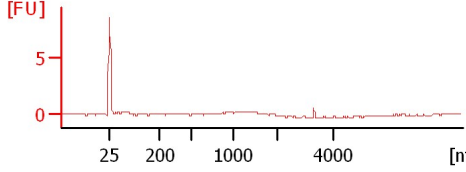
**No Sample**  
RIN N/A



**No Sample**  
RIN N/A



**No Sample**  
RIN N/A



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
 Modified: 11/8/2016 12:03:03 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
108573_A_ASD Male		✓	RIN: 2.60	
102345_A_TD Male		✓	RIN N/A	
102093 TD Male		✓	RIN N/A	
107047 ASD Male		✓	RIN: 2.60	
108188 ASD Male		✓	RIN N/A	
106643 ASD Male		✓	RIN: 2.20	
No Sample		✓	RIN N/A	
No Sample		✓	RIN N/A	
No Sample		✓	RIN N/A	
No Sample		✓	RIN N/A	
No Sample		✓	RIN N/A	
No Sample		✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 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/ $\mu$ l] : 150  
Lower Marker Concentration [ng/ $\mu$ l] : 0  
Upper Marker Concentration [ng/ $\mu$ 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

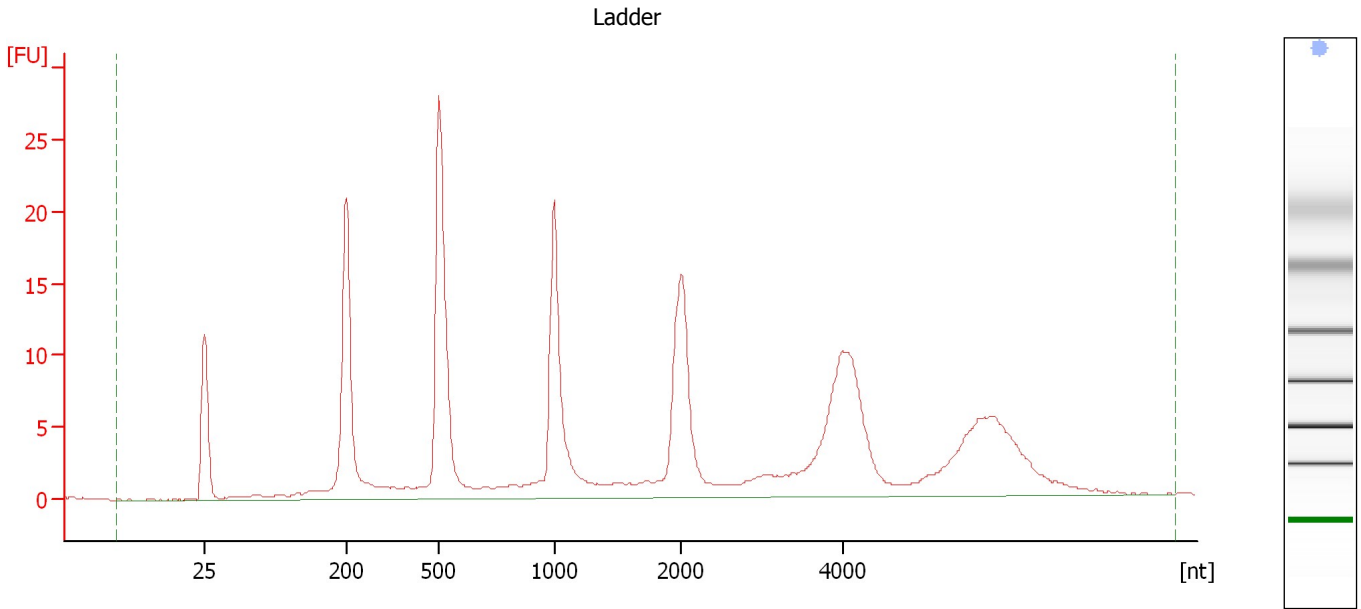
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

**Electropherogram Summary**



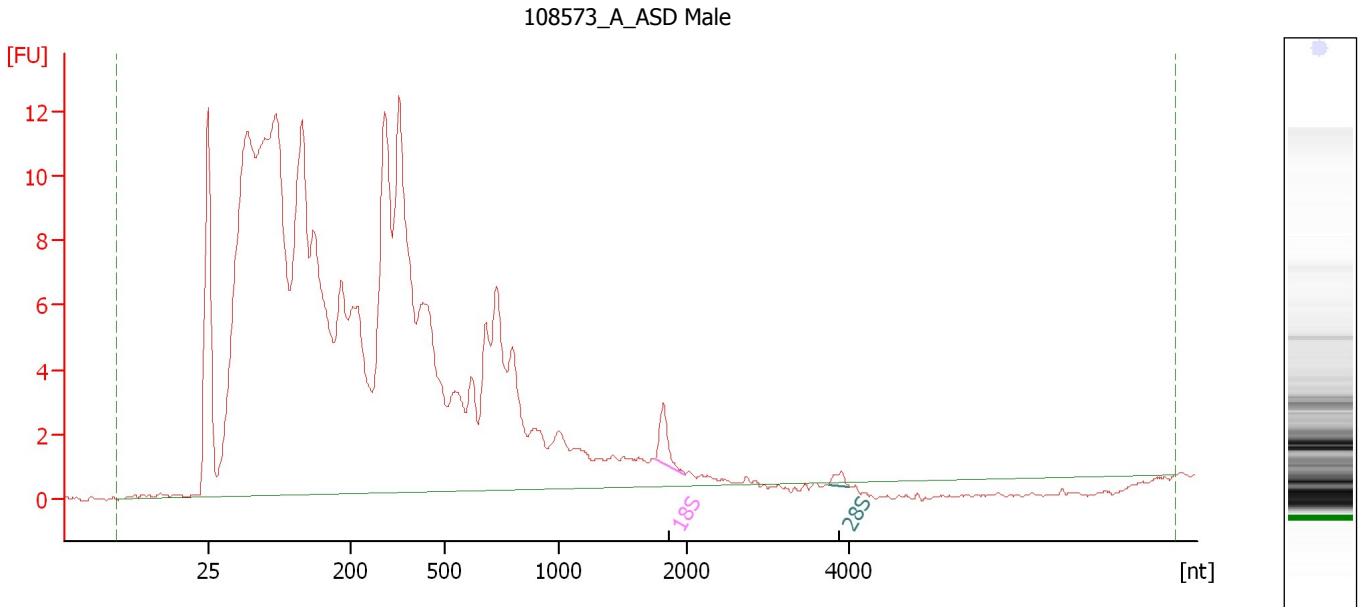
**Overall Results for Ladder**

RNA Area:	249.5	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:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 108573 A ASD Male**

RNA Area: 324.0 RNA Integrity Number (RIN): 2.6 (B.02.08)  
RNA Concentration: 195 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN: 2.60

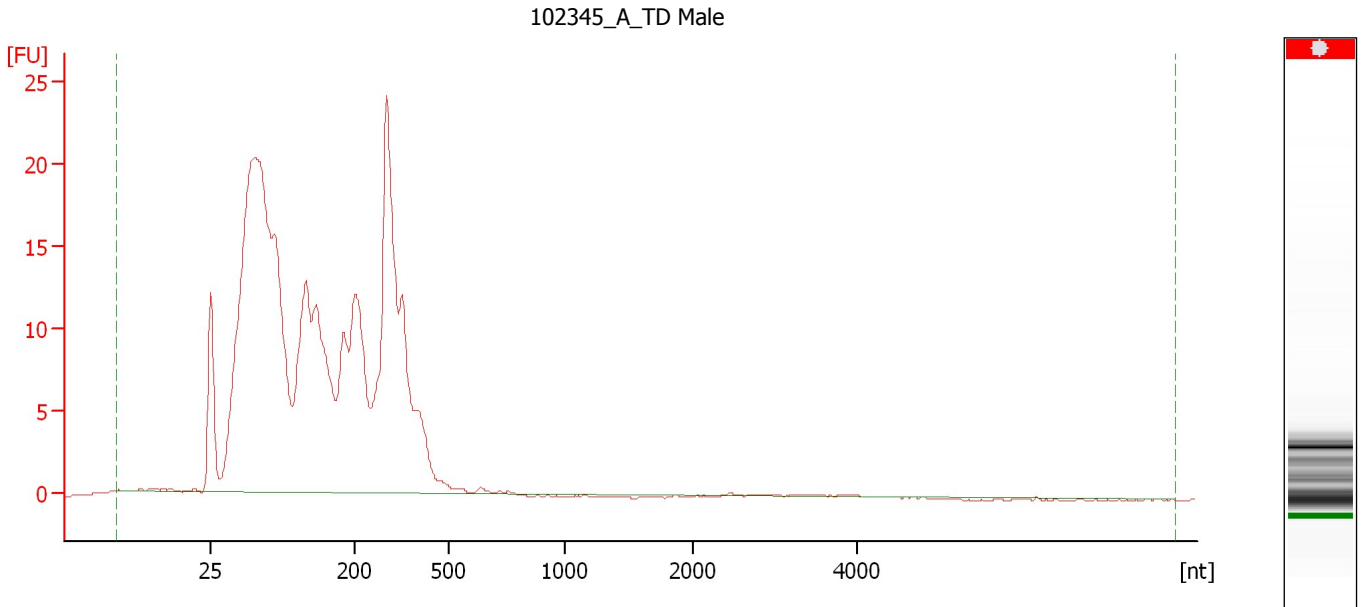
**Fragment table for sample 1 : 108573 A ASD Male**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,742	1,984	1.7	0.5
28S	3,739	4,002	0.5	0.2


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

**Electropherogram Summary Continued ...**



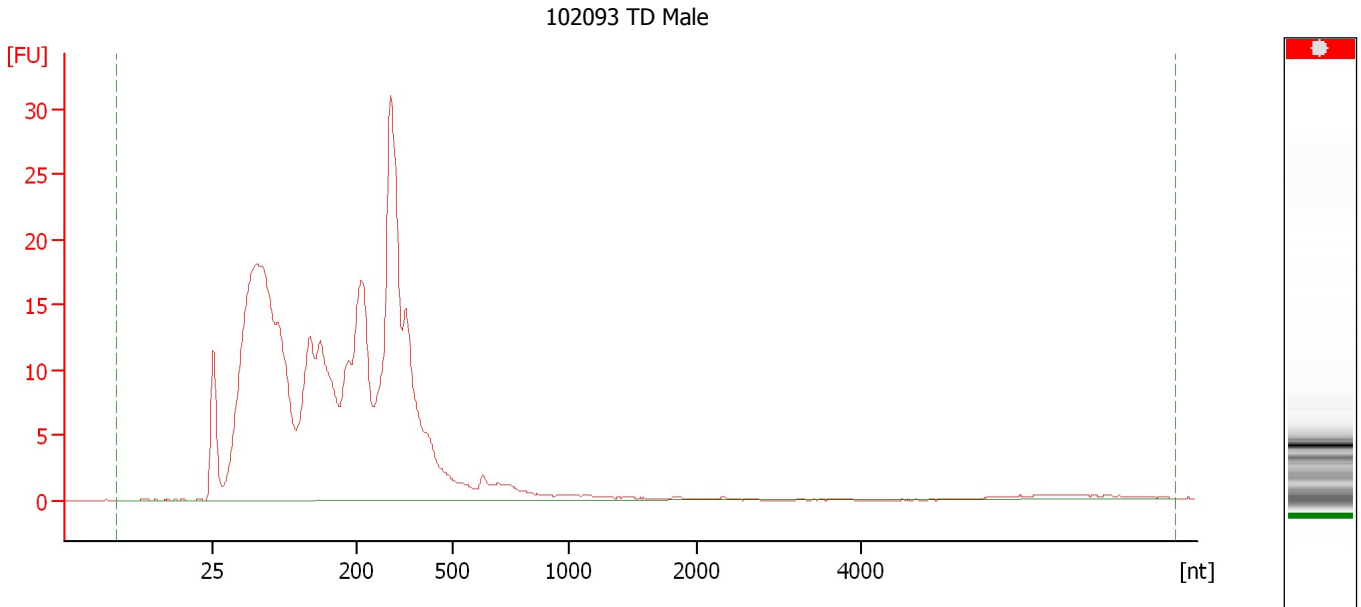
**Overall Results for sample 2 : 102345 A TD Male**

RNA Area:	359.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	216 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

**Electropherogram Summary Continued ...**



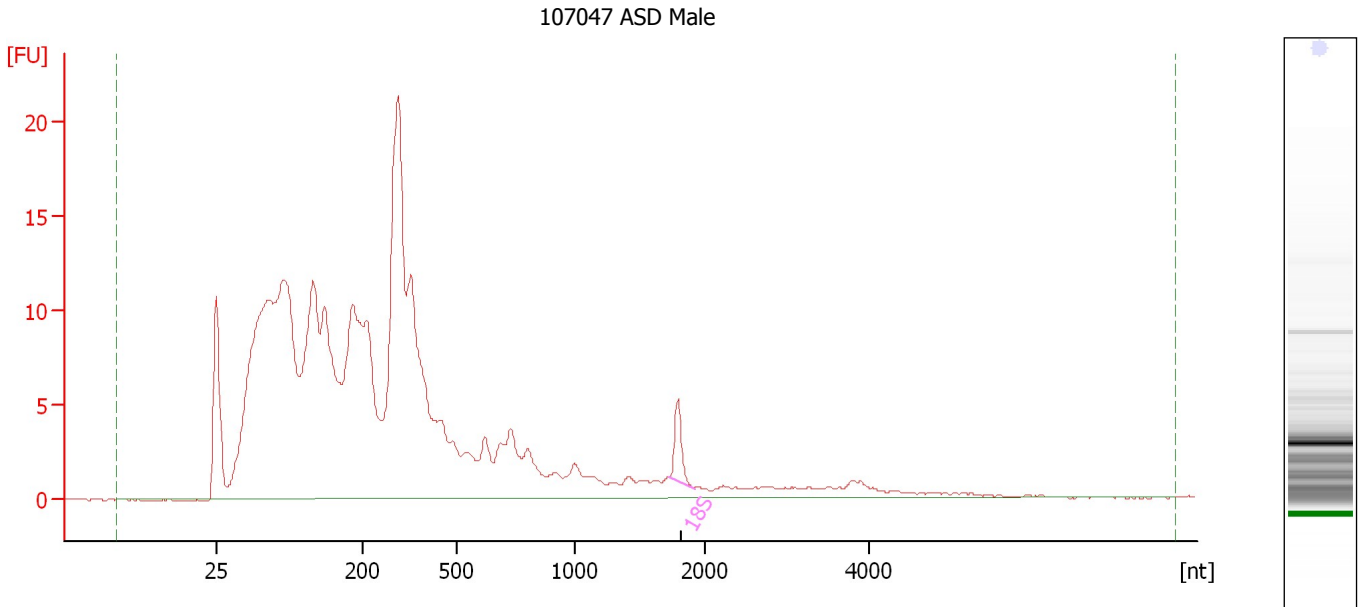
**Overall Results for sample 3 : 102093 TD Male**

RNA Area:	410.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	247 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 107047 ASD Male**

RNA Area: 347.0 RNA Integrity Number (RIN): 2.6 (B.02.08)  
RNA Concentration: 209 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.60

**Fragment table for sample 4 : 107047 ASD Male**

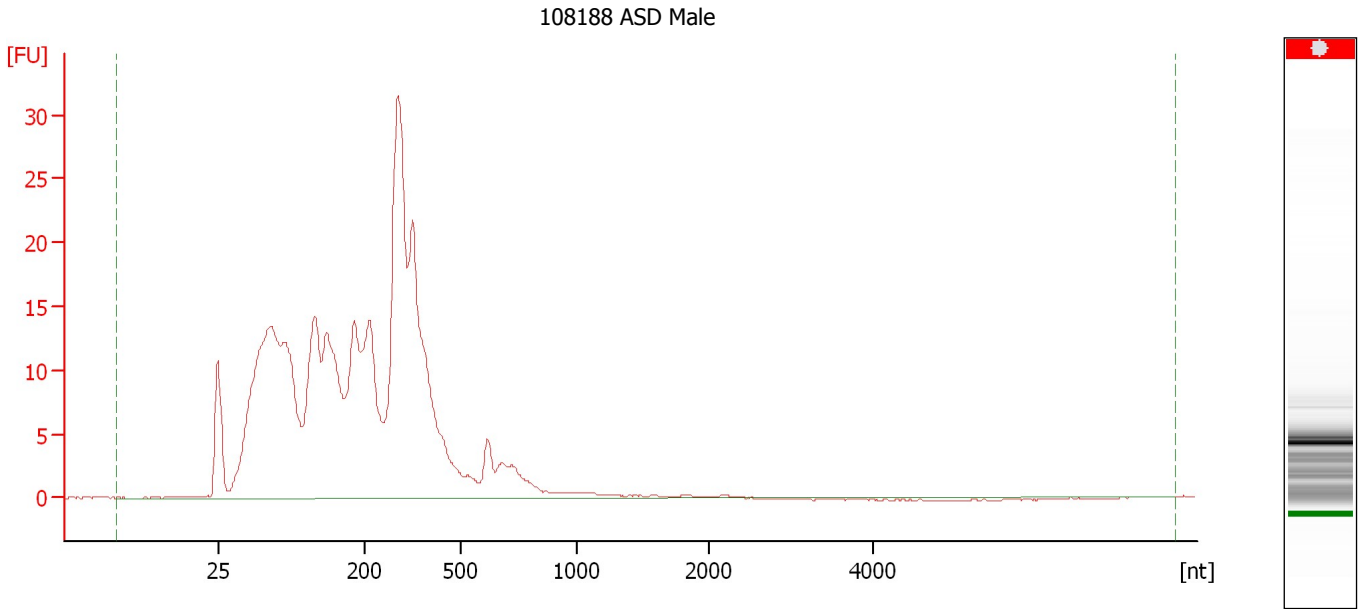
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,733	1,922	3.3	0.9




Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

**Electropherogram Summary Continued ...**



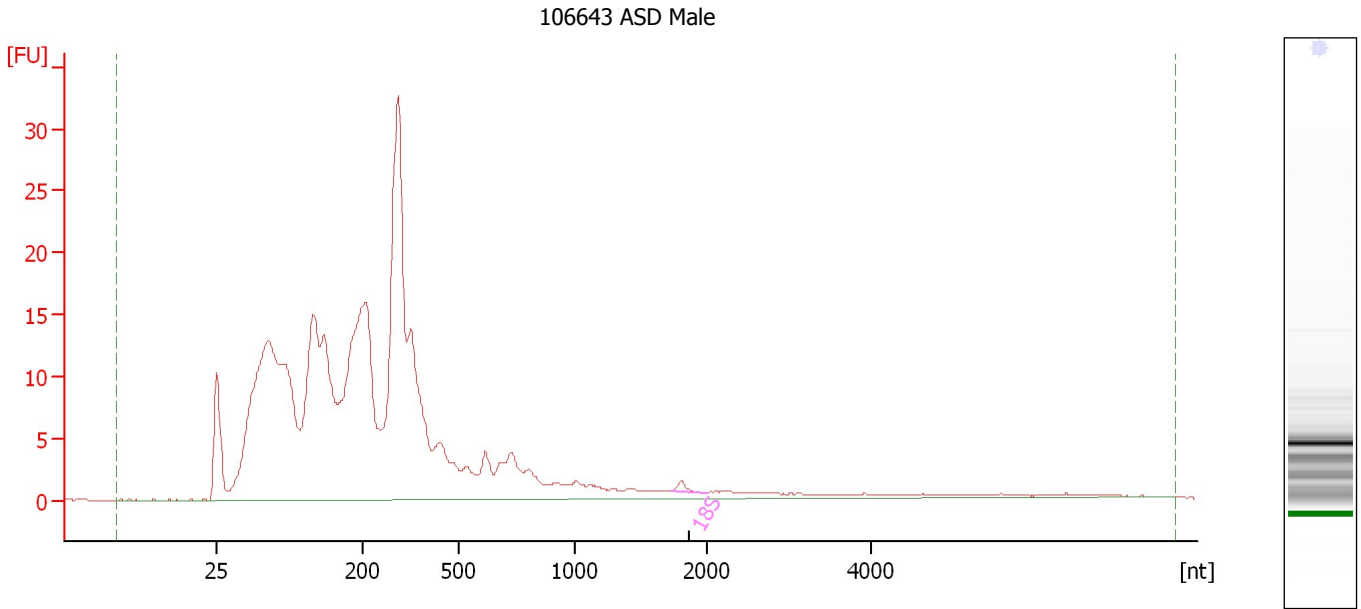
**Overall Results for sample 5 : 108188 ASD Male**

RNA Area:	403.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	243 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 106643 ASD Male**

RNA Area:	407.1	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	245 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: 2.20

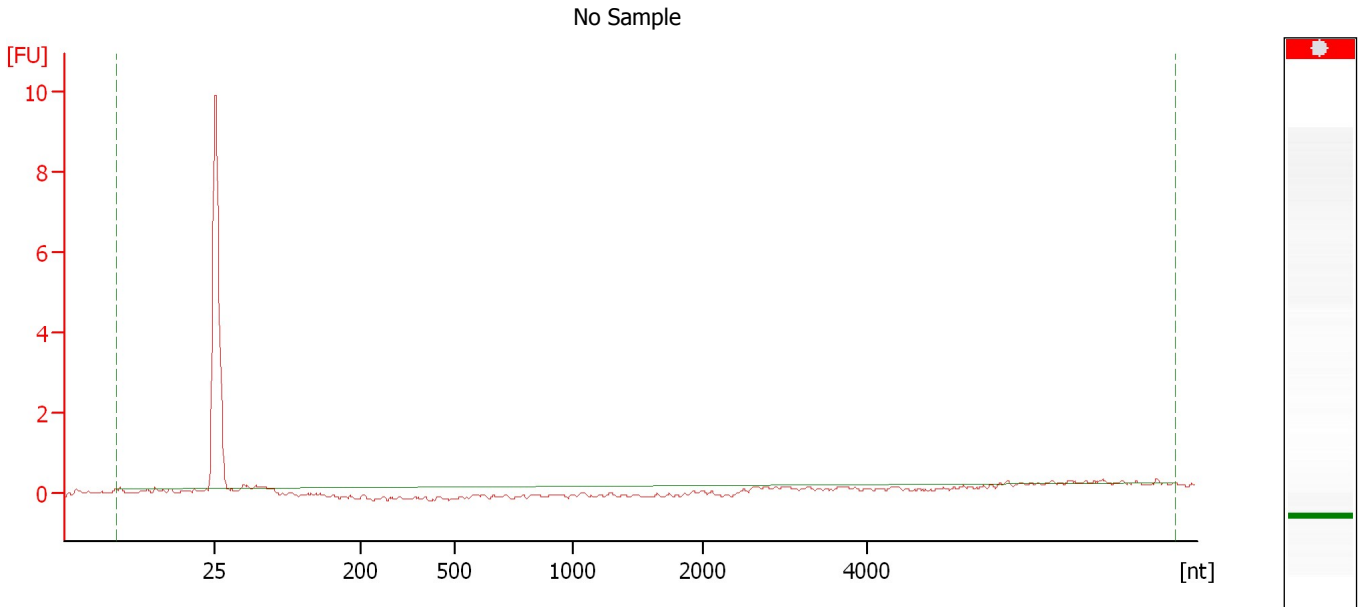
**Fragment table for sample 6 : 106643 ASD Male**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,726	2,008	0.9	0.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

**Electropherogram Summary Continued ...**



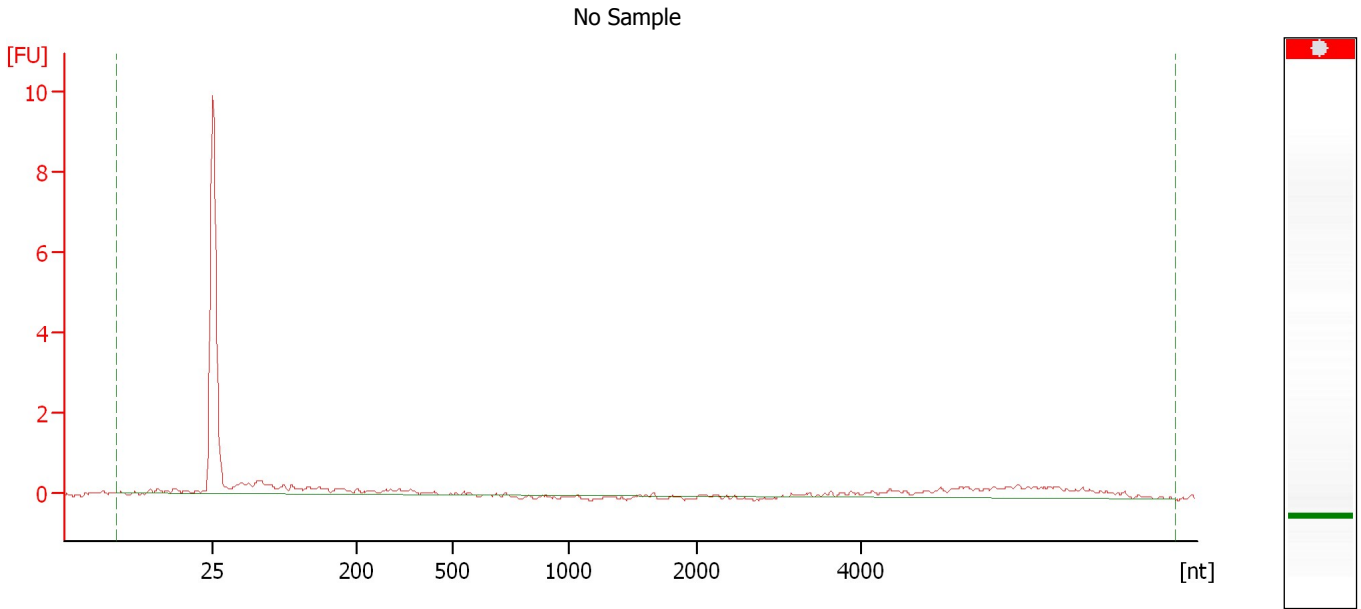
**Overall Results for sample 7 : No Sample**

RNA Area:	0.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	0 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:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

**Electropherogram Summary Continued ...**



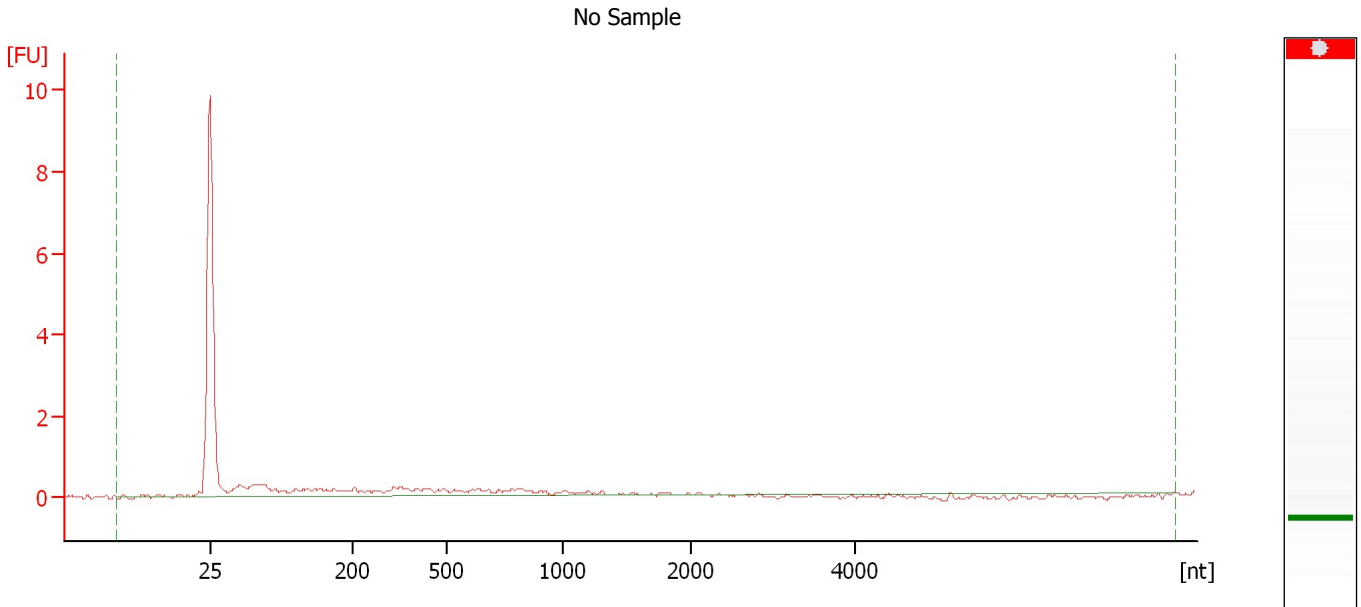
**Overall Results for sample 8 : No Sample**

RNA Area:	10.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6 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:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

**Electropherogram Summary Continued ...**



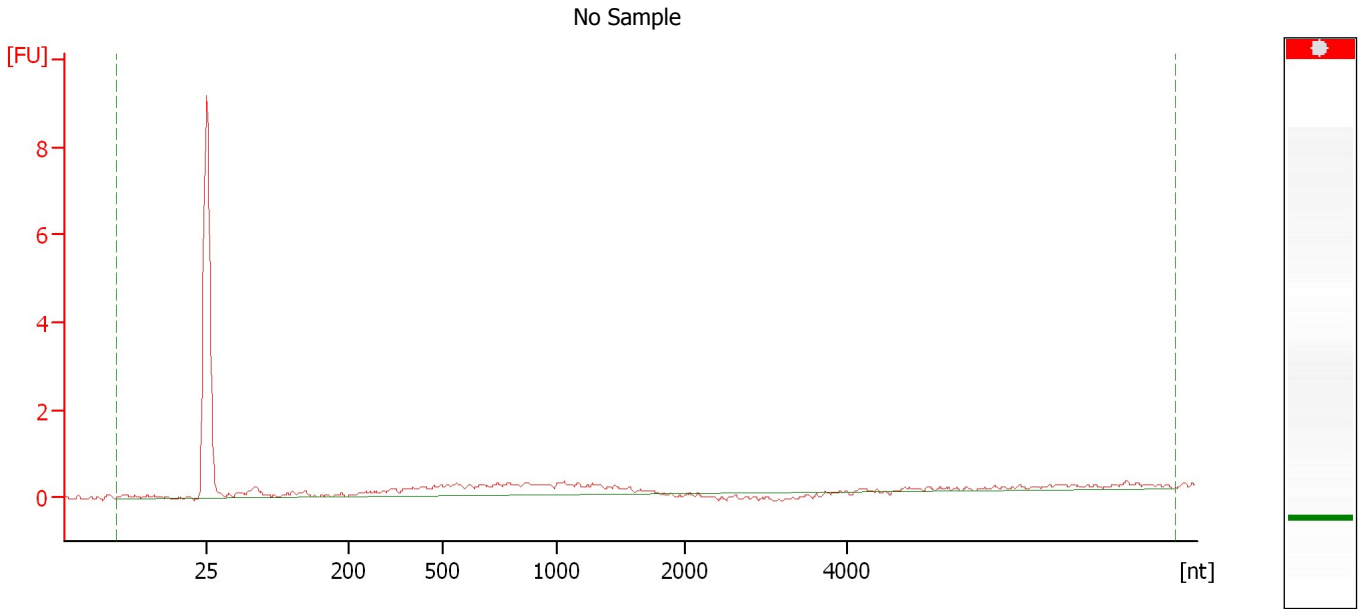
**Overall Results for sample 9 : No Sample**

RNA Area:	7.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	4 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:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

**Electropherogram Summary Continued ...**



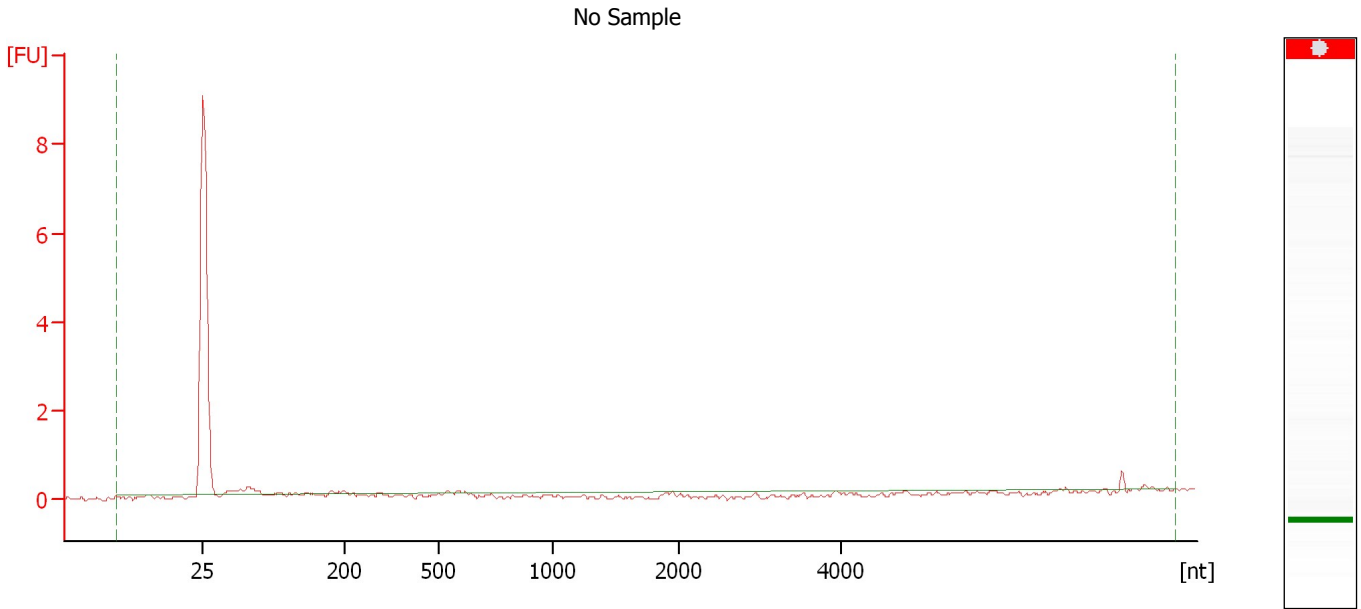
**Overall Results for sample 10 : No Sample**

RNA Area:	9.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6 ng/ $\mu$ l	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:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

**Electropherogram Summary Continued ...**



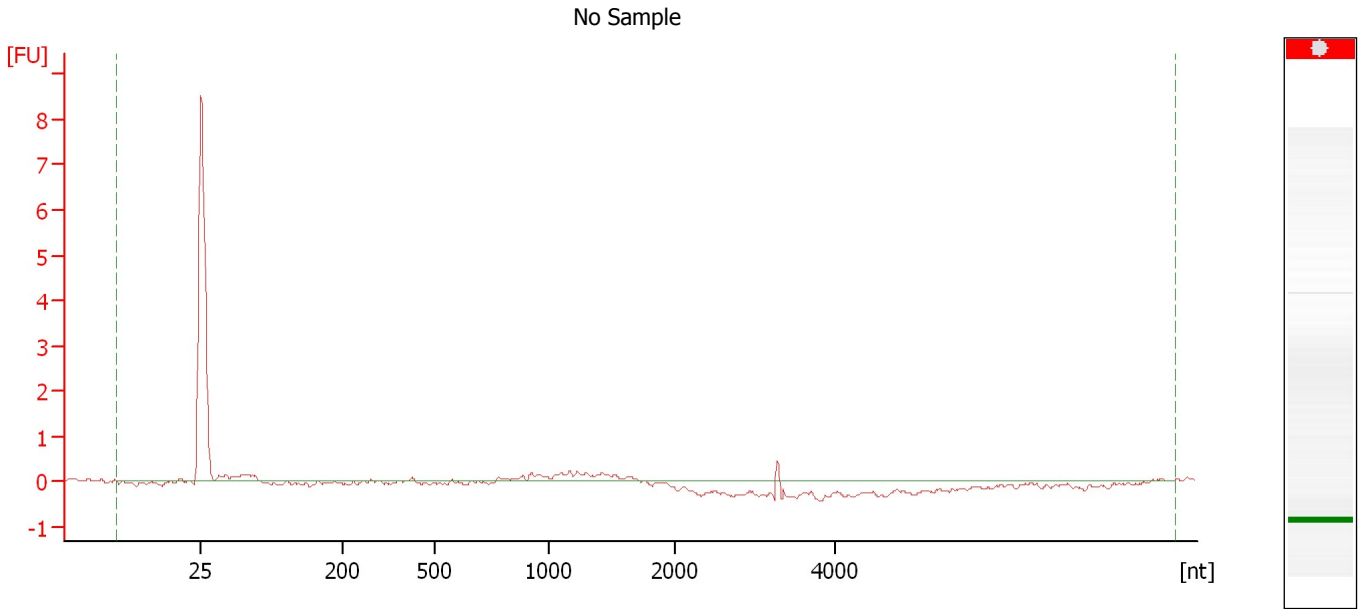
**Overall Results for sample 11 : No Sample**

RNA Area:	1.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 ng/ $\mu$ l	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:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : No Sample**

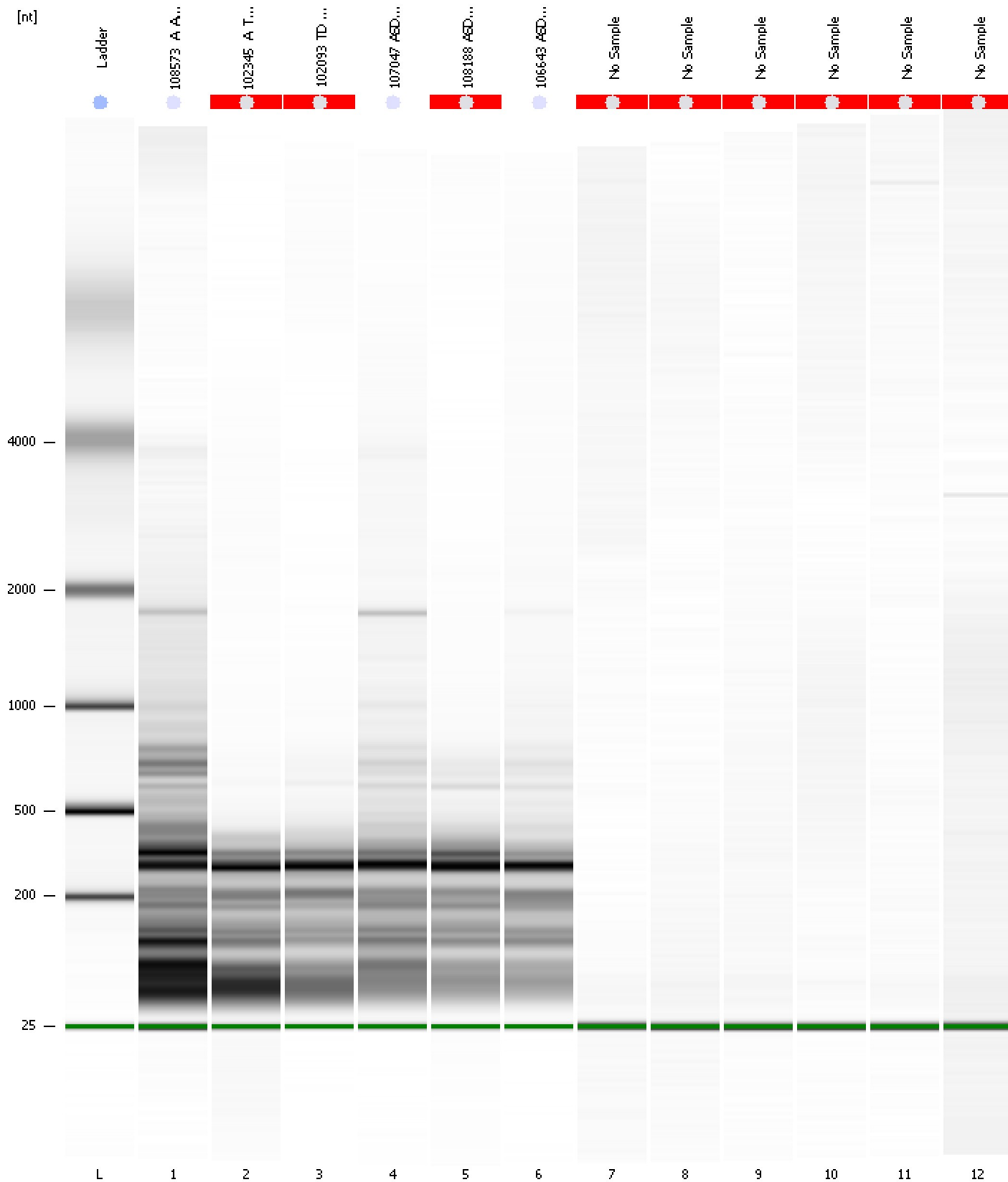
RNA Area:	2.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
Modified: 11/8/2016 12:03:03 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-08\2016-11-08\_001.xad

Created: 11/8/2016 11:39:14 AM  
 Modified: 11/8/2016 12:03:03 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		11/8/2016 12:03:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-11-08\2016-11-08_001.xad)		Instrument	Run		11/8/2016 11:39:19 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/8/2016 11:39:19 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/8/2016 11:39:19 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/8/2016 11:39:19 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/8/2016 11:39:19 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/8/2016 11:39:19 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/8/2016 11:39:19 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1