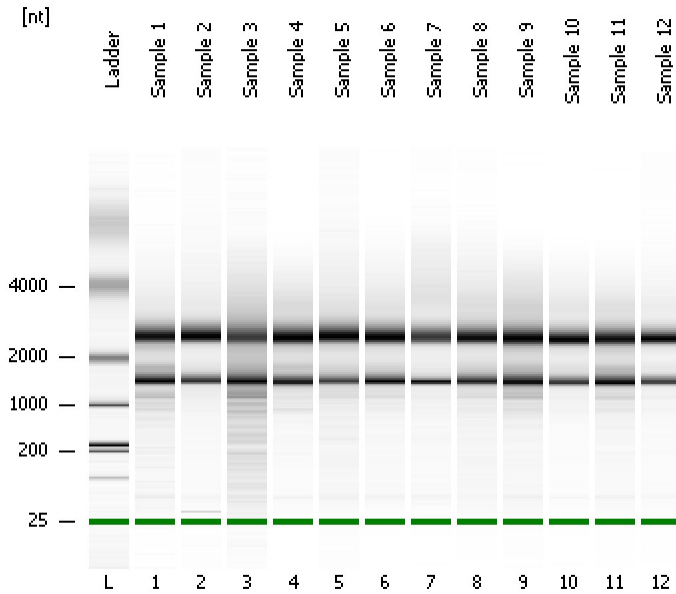


Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Electrophoresis File Run Summary**



Instrument Information:

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

Assay Information:

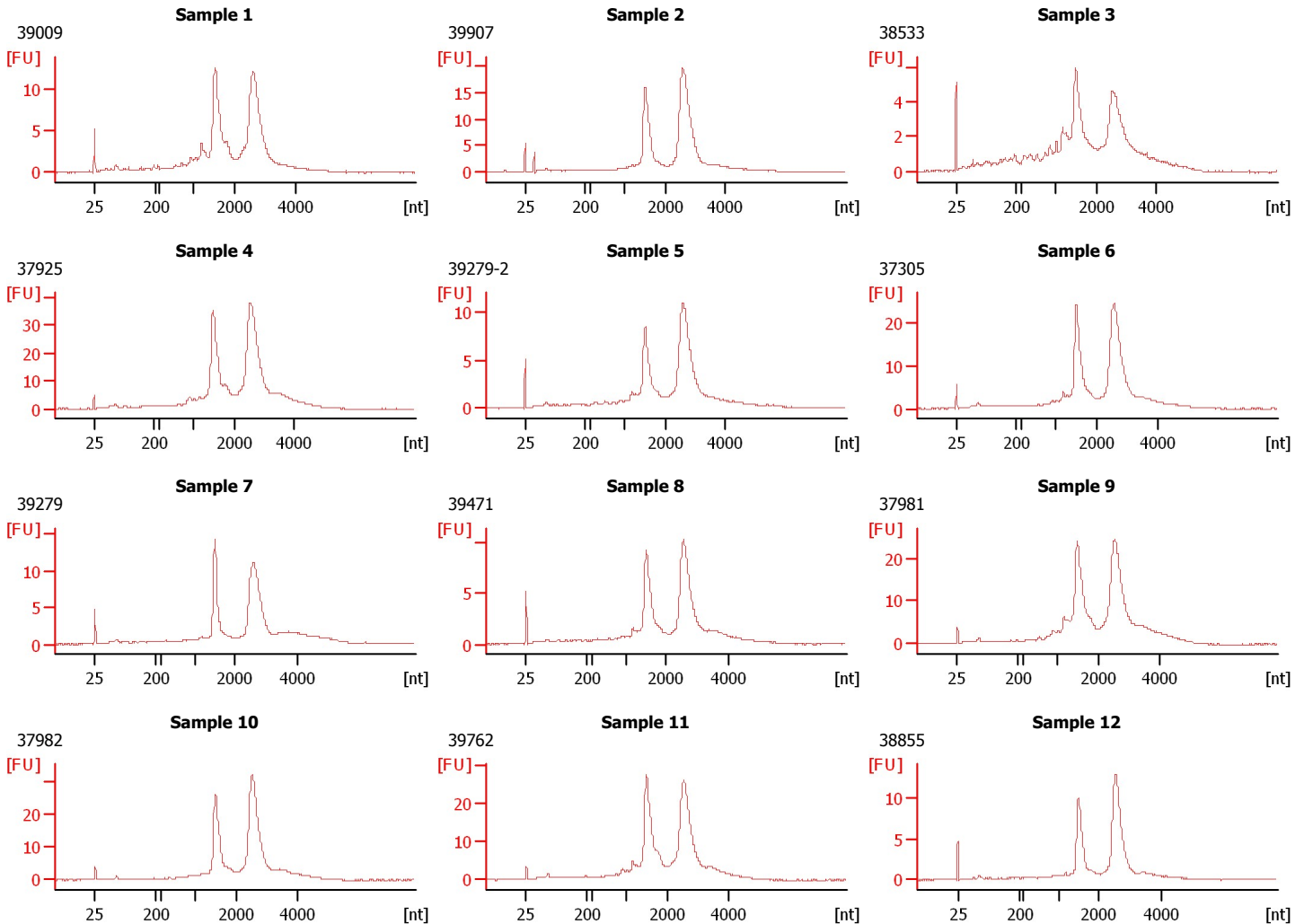
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Nano Series II.xsy

Assay Class: mRNA Nano  
Version: 2.5  
Assay Comments: mRNA Analysis ng sensitivity

© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

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



Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1	39009	✓		
Sample 2	39907	✓		
Sample 3	38533	✓		
Sample 4	37925	✓		
Sample 5	39279-2	✓		
Sample 6	37305	✓		
Sample 7	39279	✓		
Sample 8	39471	✓		
Sample 9	37981	✓		
Sample 10	37982	✓		
Sample 11	39762	✓		
Sample 12	38855	✓		
Ladder		✓		

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

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 14  
Maximum Visible Range [s] : 85  
Start Analysis Time Range [s] : 15  
End Analysis Time Range [s] : 84  
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] : 15  
Integration End Time [s] : 84  
Slope Threshold : 0.2  
Height Threshold [FU] : 0.5  
Area Threshold : 0.1  
Width Threshold [s] : 0.2  
Baseline Plateau [s] : 0.5

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

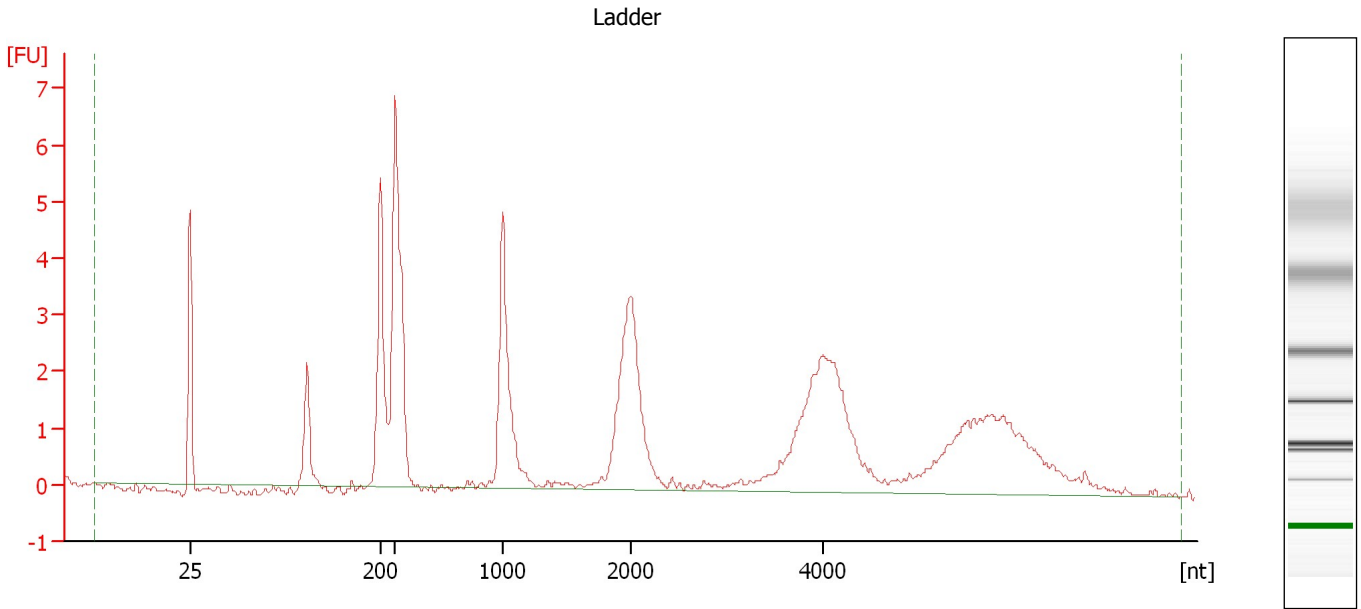
### Ladder

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

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Electropherogram Summary**



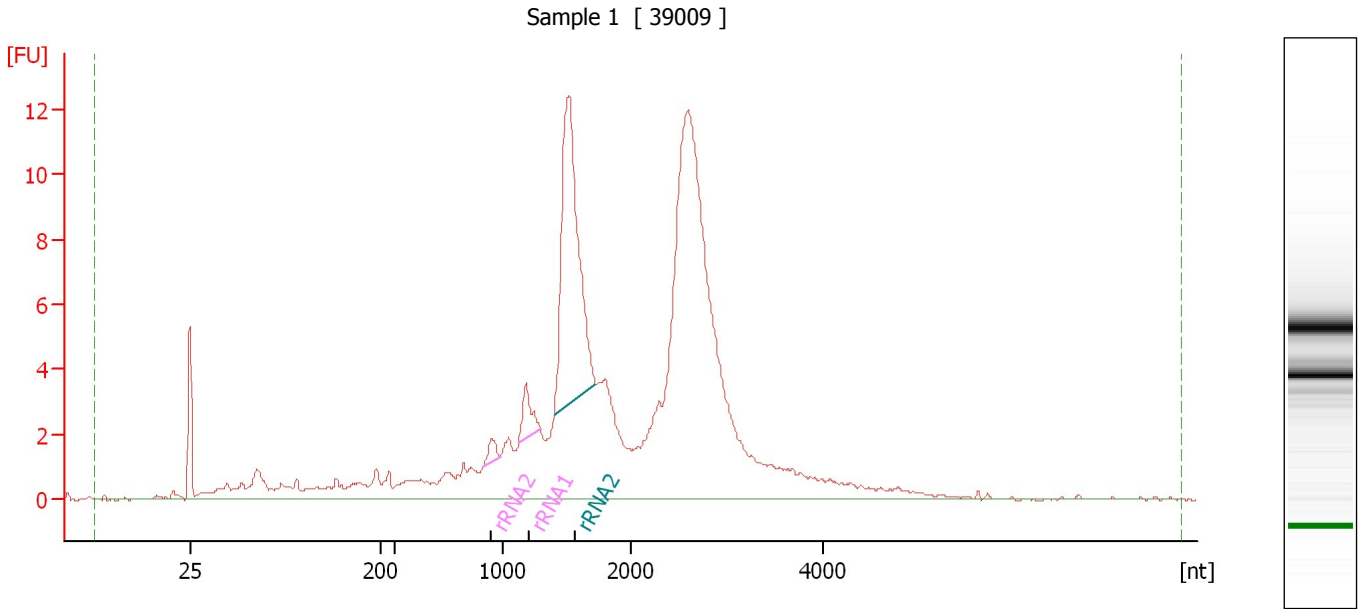
**Overall Results for Ladder**

RNA Area: 70.7                      RNA Concentration: 150 ng/μl

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Sample 1**

RNA Area: 181.5                      rRNA Contamination: 15.4 %  
RNA Concentration: 385 ng/μl

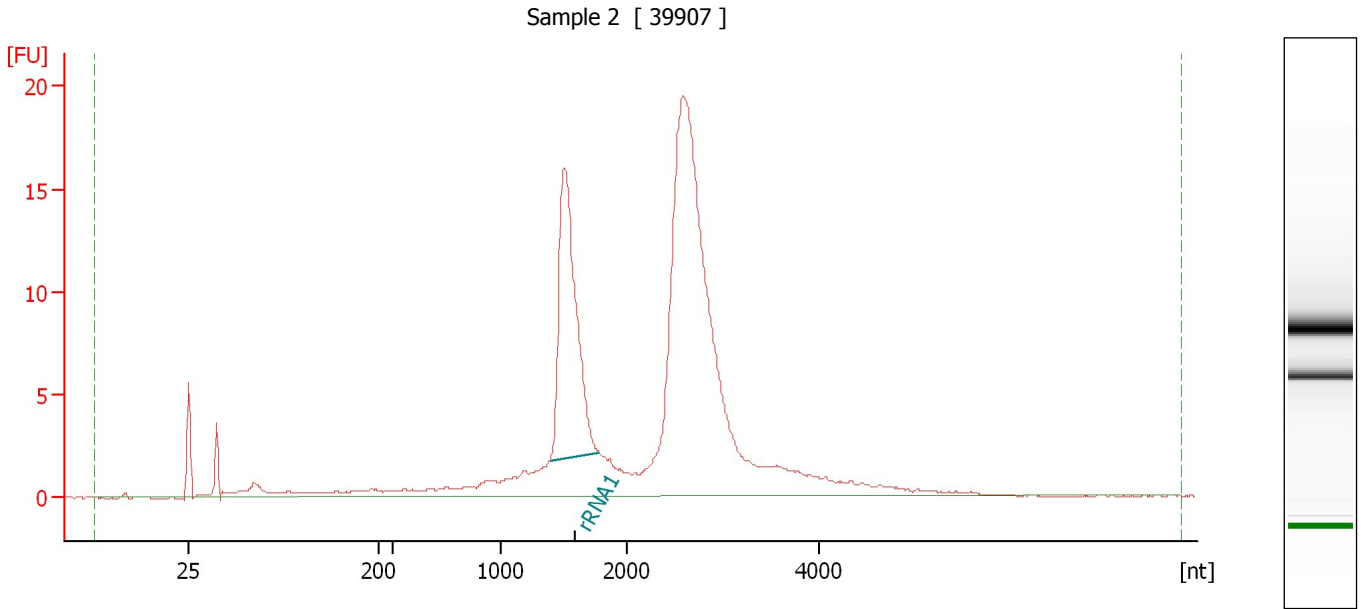
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	907	985	1.0	0.5
rRNA1	1,125	1,293	2.3	1.3
rRNA2	1,400	1,725	24.7	13.6

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sample 2**

RNA Area: 205.1                      rRNA Contamination: 18.5 %  
RNA Concentration: 435 ng/μl

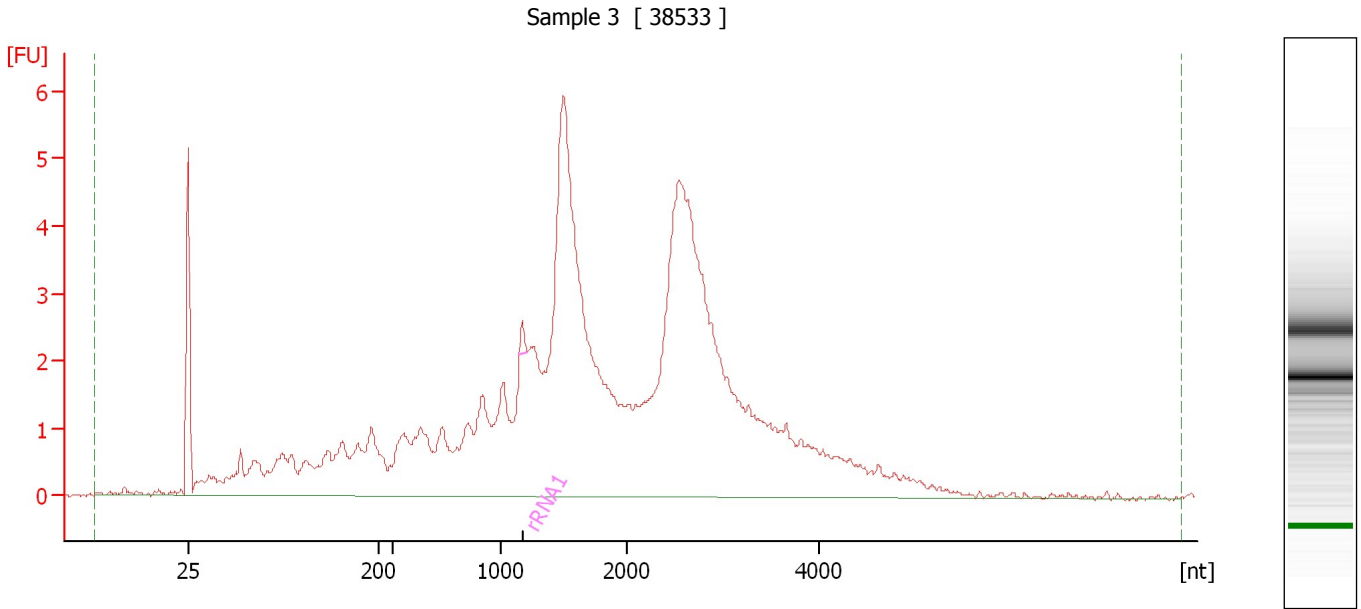
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,394	1,777	38.0	18.5

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sample 3**

RNA Area: 126.7                      rRNA Contamination: 0.2 %  
RNA Concentration: 269 ng/μl

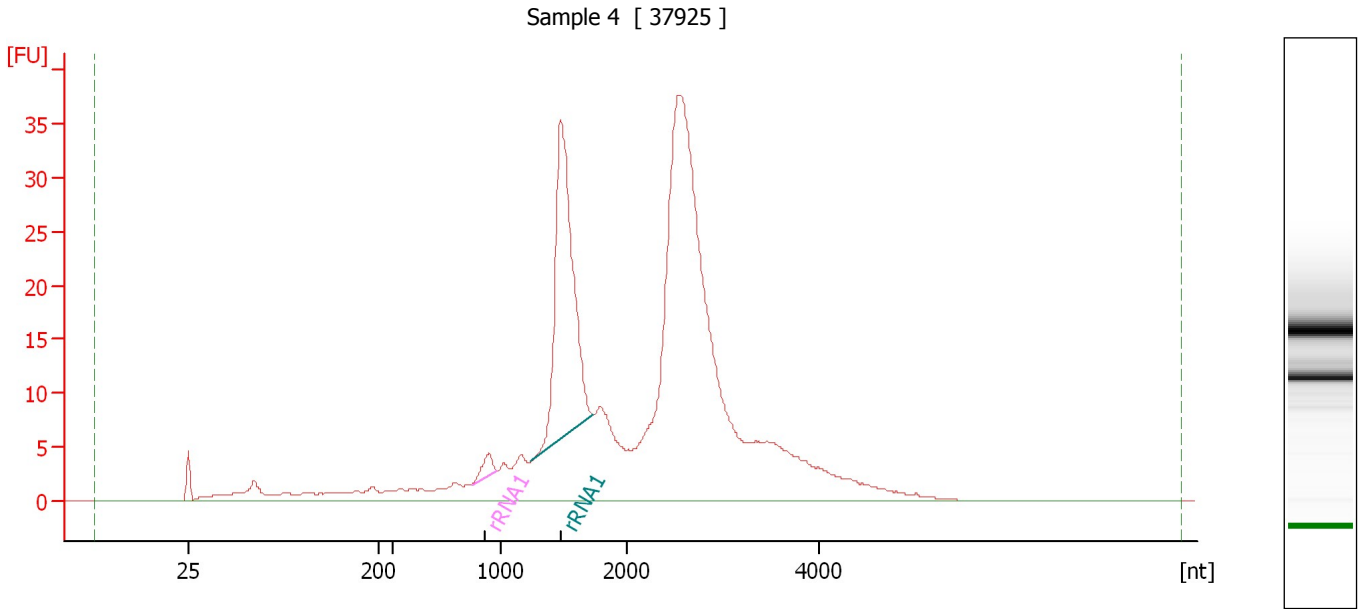
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,155	1,212	0.3	0.2

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Sample 4**

RNA Area: 509.6                      rRNA Contamination: 16.7 %  
RNA Concentration: 1,082 ng/μl

**Fragment table for sample 4 : Sample 4**

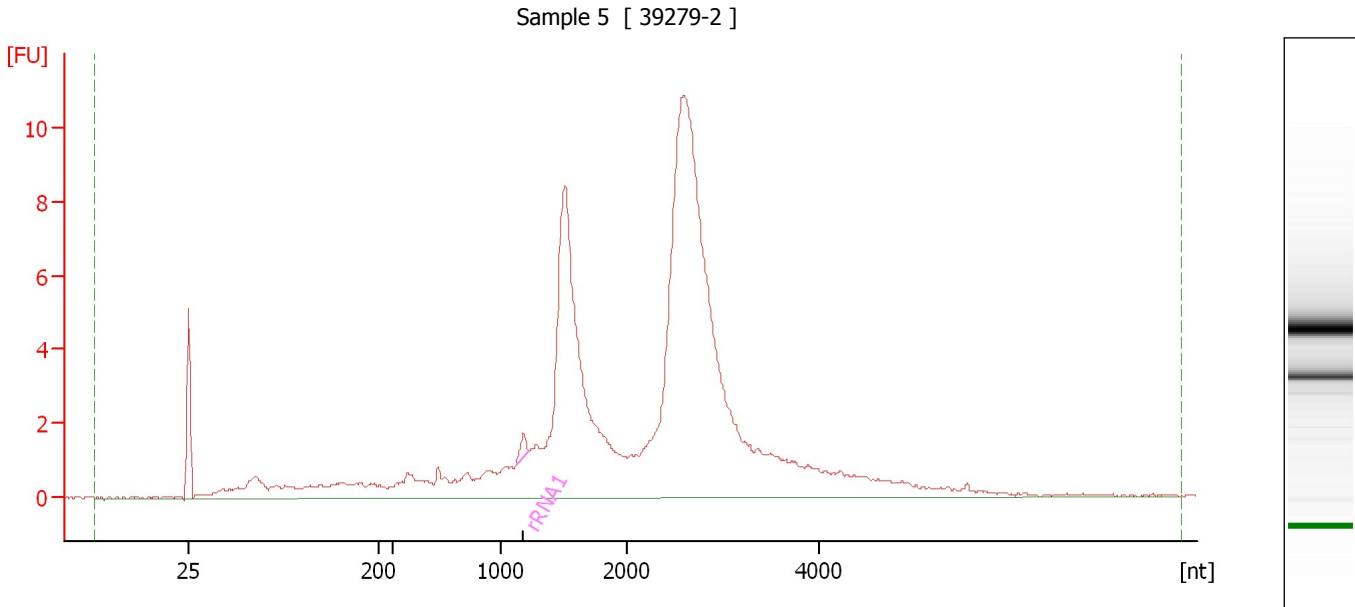
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	872	988	3.8	0.7
rRNA1	1,249	1,733	81.6	16.0



Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Sample 5**

RNA Area: 140.8 rRNA Contamination: 0.4 %  
RNA Concentration: 299 ng/μl

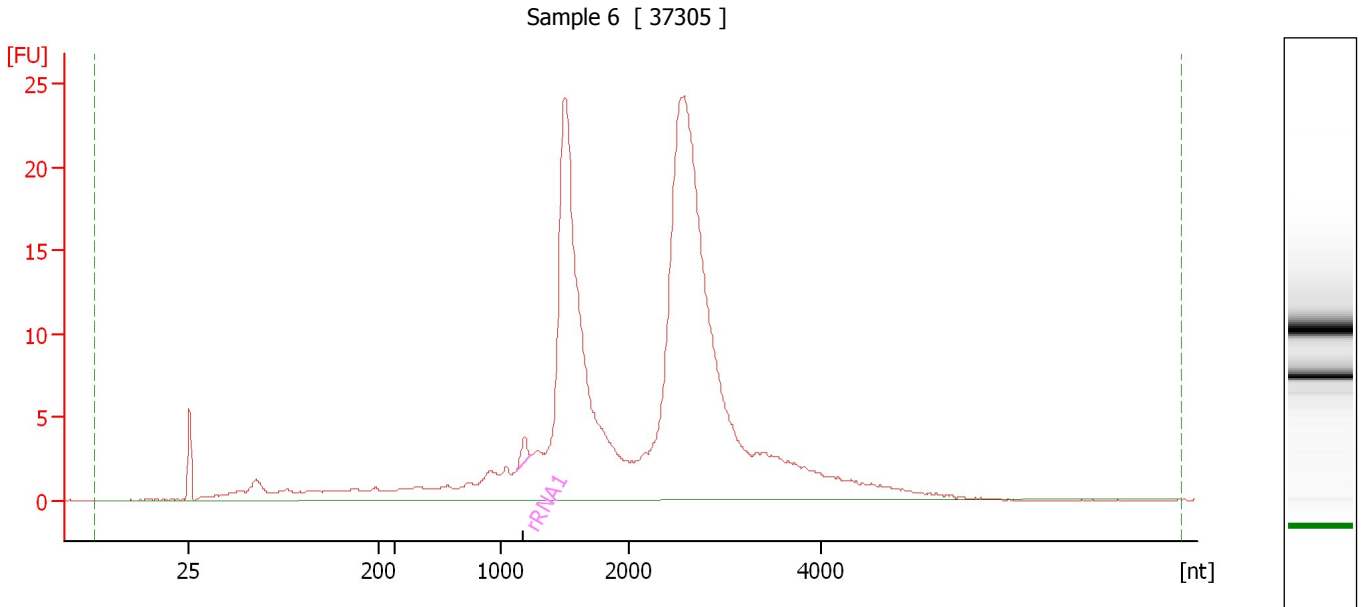
**Fragment table for sample 5 : Sample 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,124	1,224	0.6	0.4

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Sample 6**

RNA Area: 313.4 rRNA Contamination: 0.5 %  
RNA Concentration: 665 ng/μl

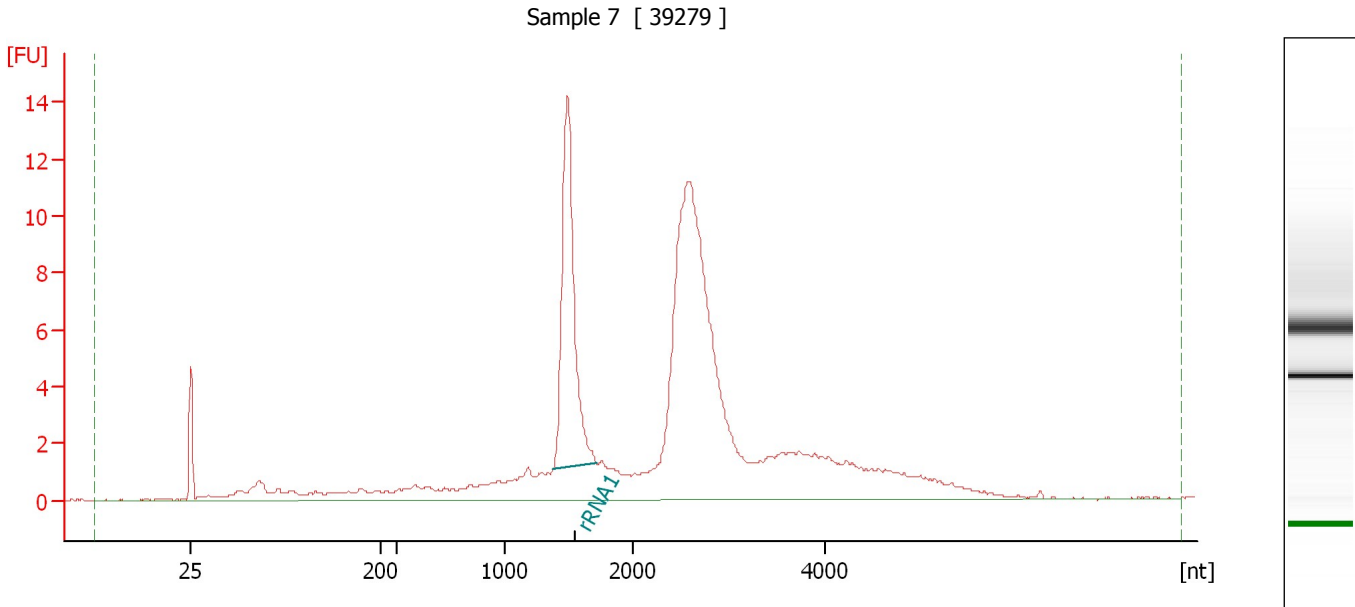
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,112	1,224	1.4	0.5

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Sample 7**

RNA Area: 149.0 rRNA Contamination: 16.6 %  
RNA Concentration: 316 ng/ $\mu$ l

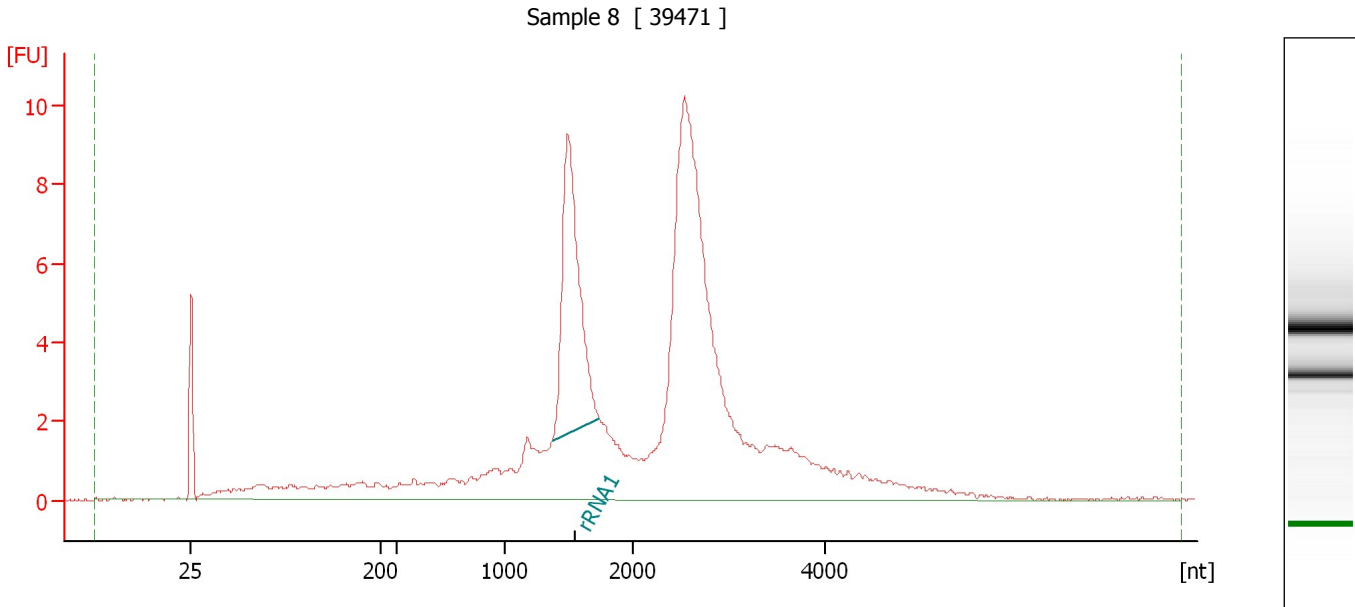
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,381	1,717	24.8	16.6

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Sample 8**

RNA Area: 135.4                      rRNA Contamination: 14.5 %  
RNA Concentration: 287 ng/μl

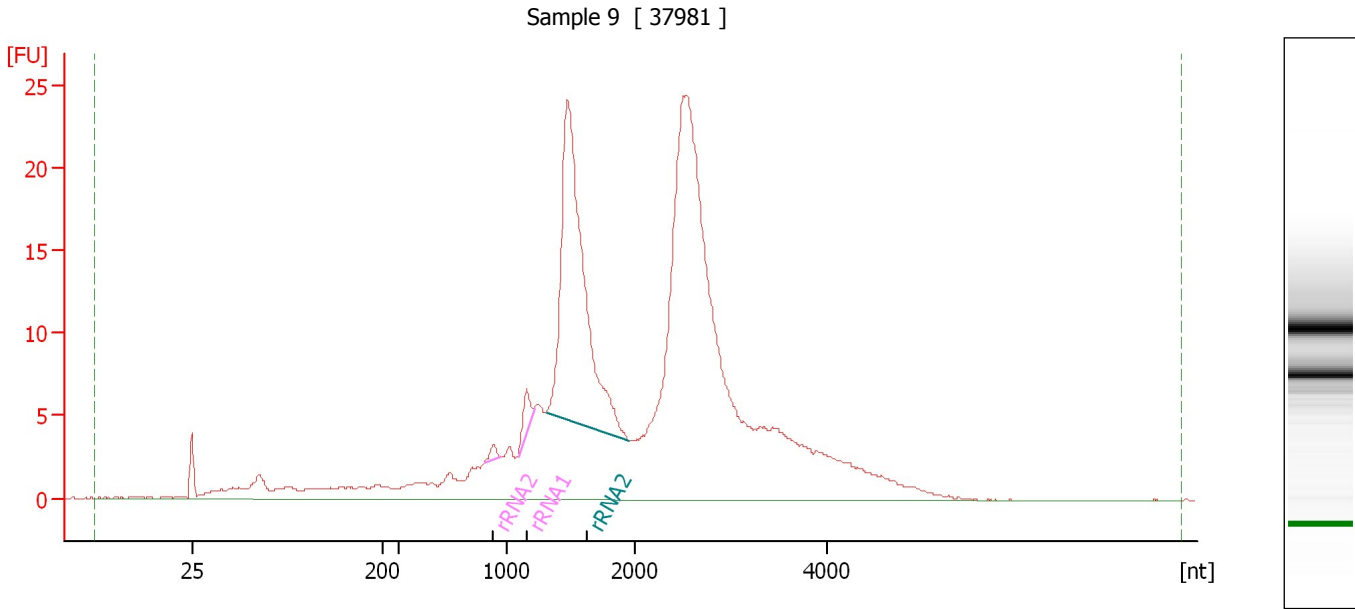
**Fragment table for sample 8 : Sample 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,374	1,736	19.6	14.5

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Sample 9**

RNA Area: 394.1 rRNA Contamination: 18.3 %  
RNA Concentration: 837 ng/μl

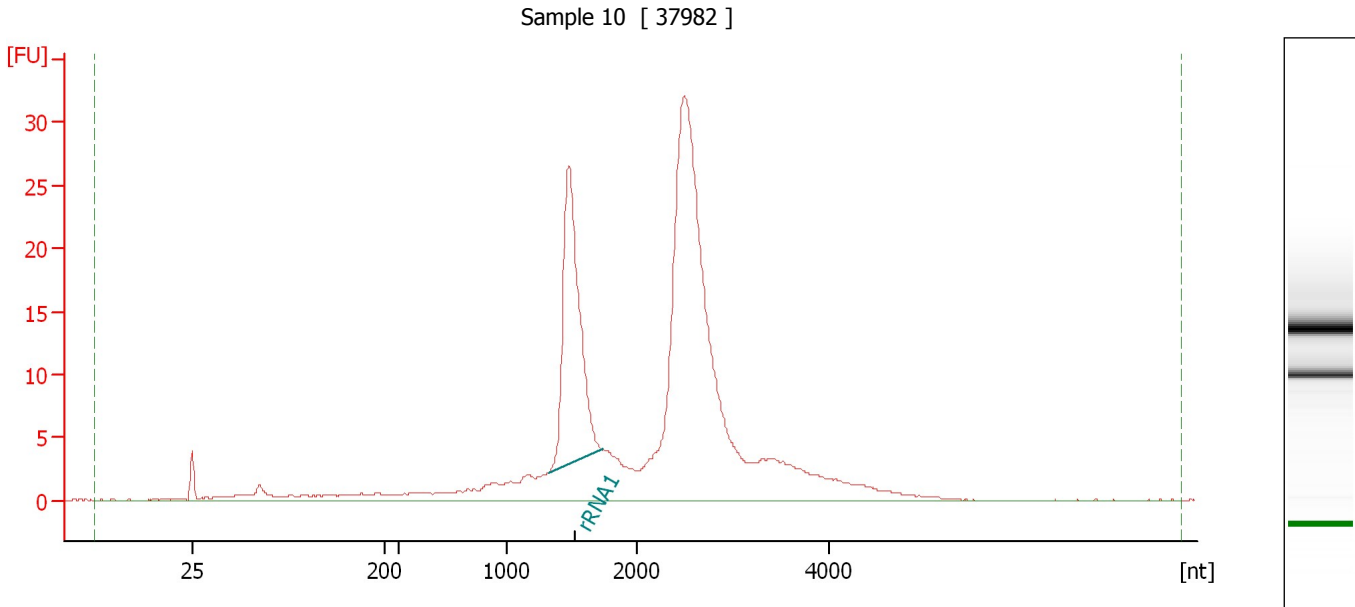
**Fragment table for sample 9 : Sample 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	897	978	1.0	0.3
rRNA1	1,094	1,219	2.7	0.7
rRNA2	1,312	1,953	68.5	17.4

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Sample 10**

RNA Area: 325.5                      rRNA Contamination: 18.5 %  
RNA Concentration: 691 ng/μl

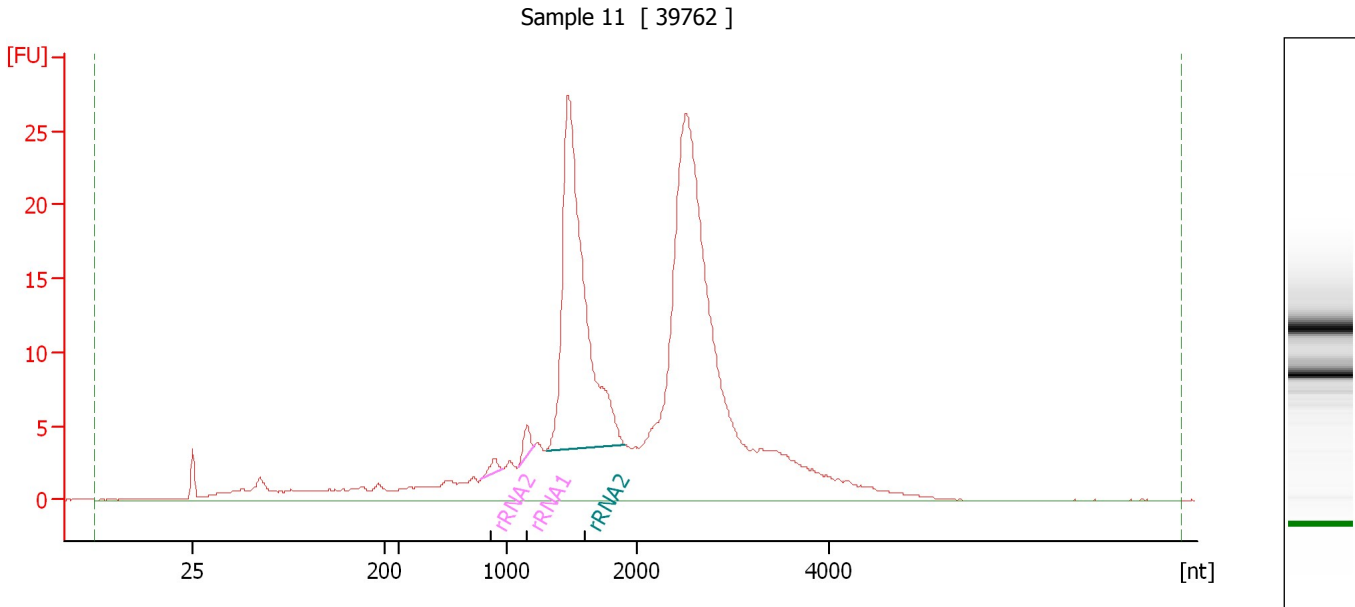
**Fragment table for sample 10 : Sample 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,324	1,734	60.3	18.5

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Sample 11**

RNA Area: 373.6                      rRNA Contamination: 22.8 %  
RNA Concentration: 793 ng/μl

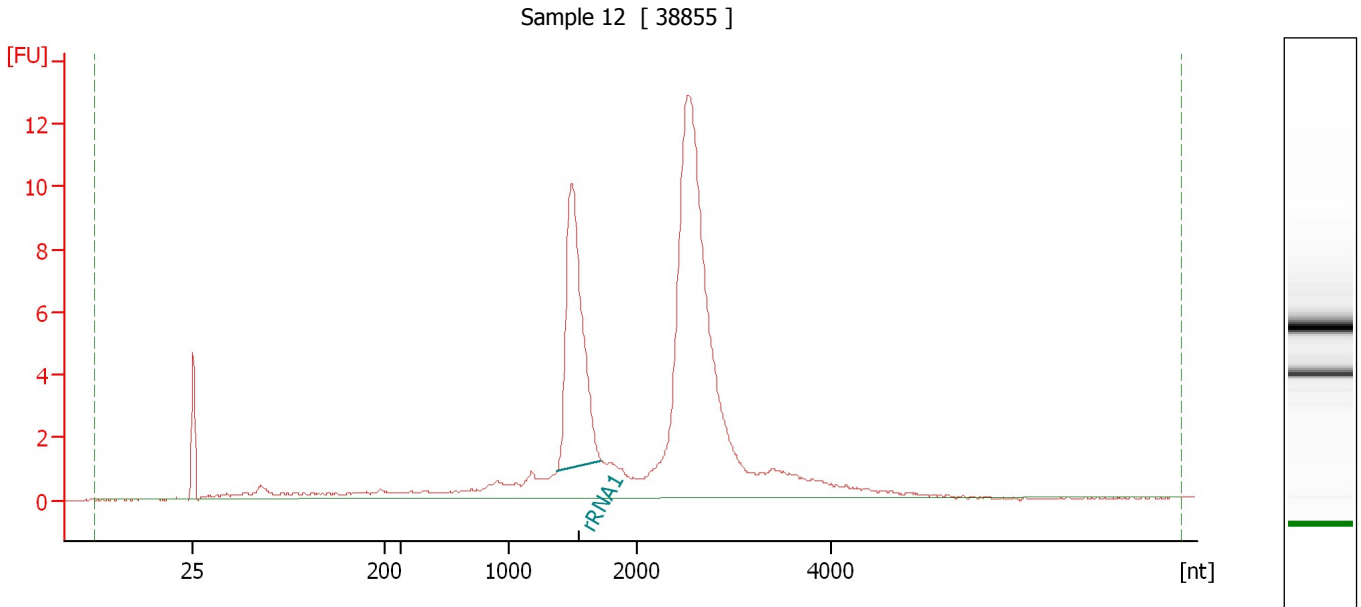
**Fragment table for sample 11 : Sample 11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	879	979	1.4	0.4
rRNA1	1,088	1,213	2.3	0.6
rRNA2	1,299	1,914	81.3	21.8

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : Sample 12**

RNA Area: 114.8                      rRNA Contamination: 19.9 %  
RNA Concentration: 244 ng/μl

**Fragment table for sample 12 : Sample 12**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,374	1,714	22.8	19.9



Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_001.xad

Created: 7/30/2015 10:54:49 AM  
Modified: 7/30/2015 11:21:51 AM

**Gel Image**

