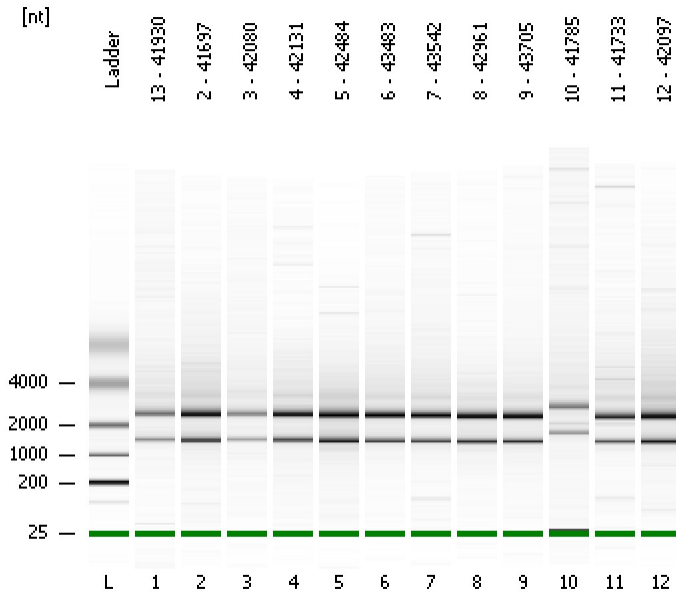


Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 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\mRNA Nano Series II.xsy

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

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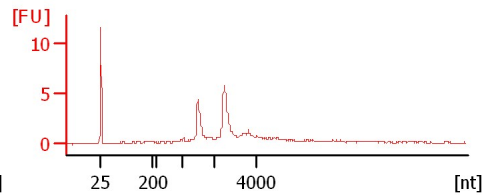
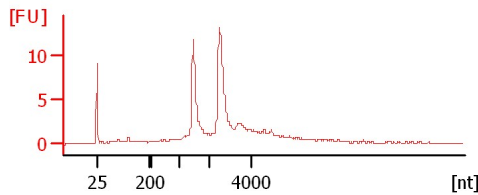
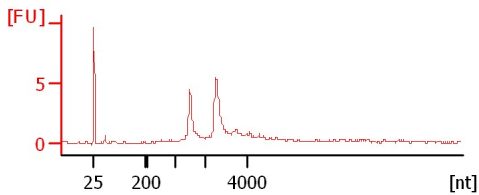
Chip Information:

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

13 - 41930

2 - 41697

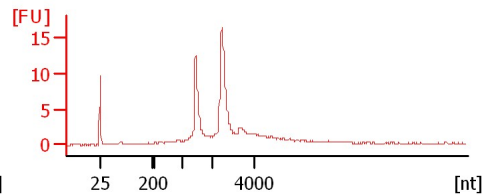
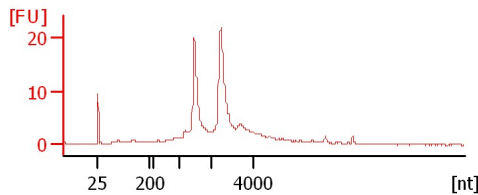
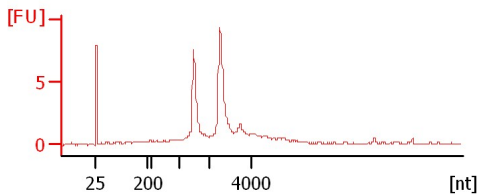
3 - 42080



4 - 42131

5 - 42484

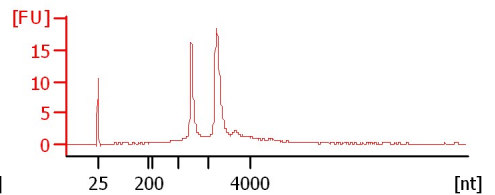
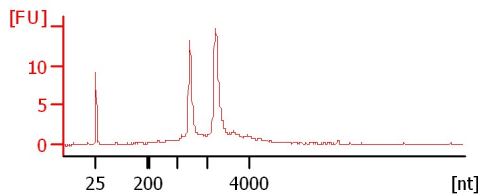
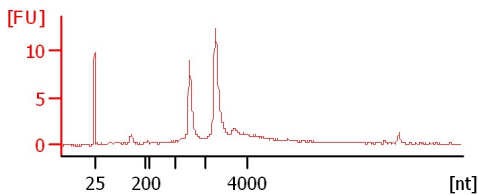
6 - 43483



7 - 43542

8 - 42961

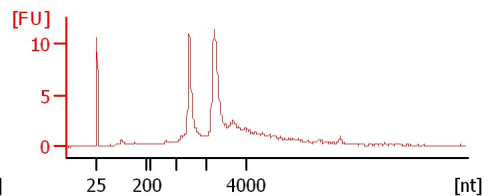
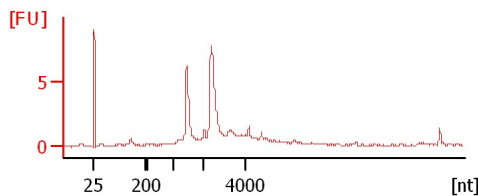
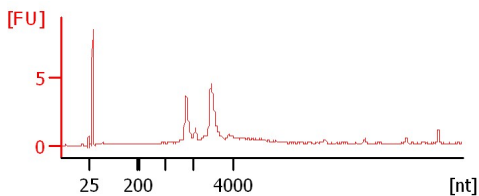
9 - 43705



10 - 41785

11 - 41733

12 - 42097



Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
13 - 41930		✓		
2 - 41697		✓		
3 - 42080		✓		
4 - 42131		✓		
5 - 42484		✓		
6 - 43483		✓		
7 - 43542		✓		
8 - 42961		✓		
9 - 43705		✓		
10 - 41785		✓		
11 - 41733		✓		
12 - 42097		✓		
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\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

## 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

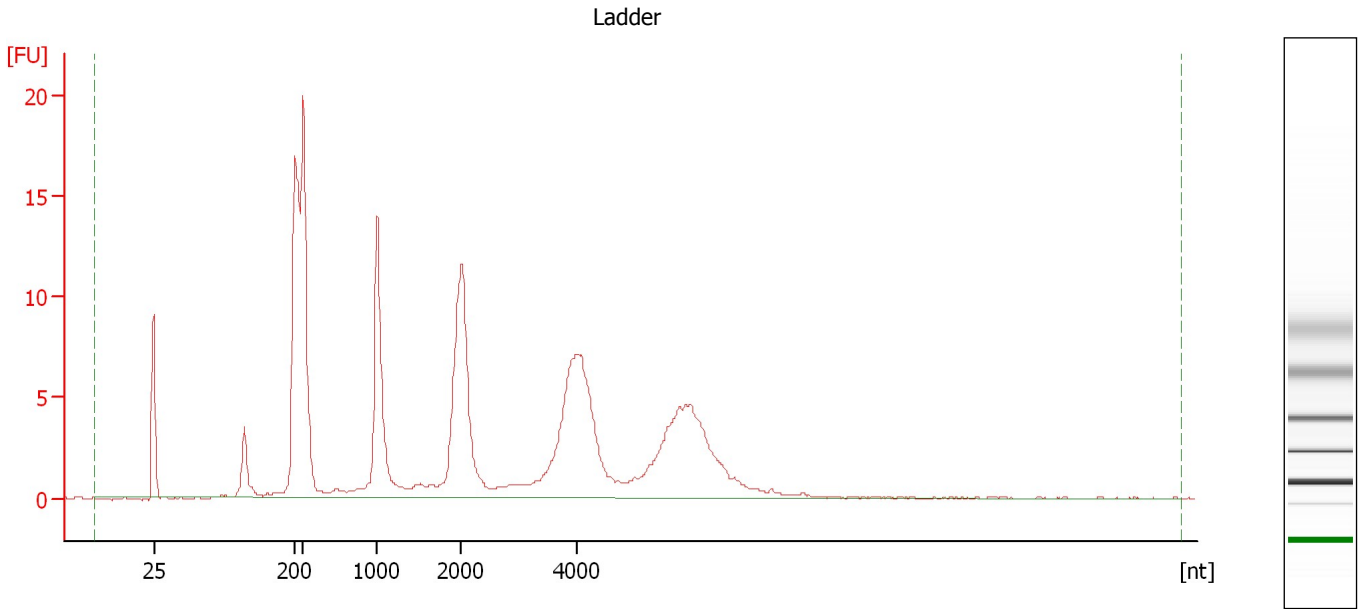
### Ladder

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\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

**Electropherogram Summary**



**Overall Results for Ladder**

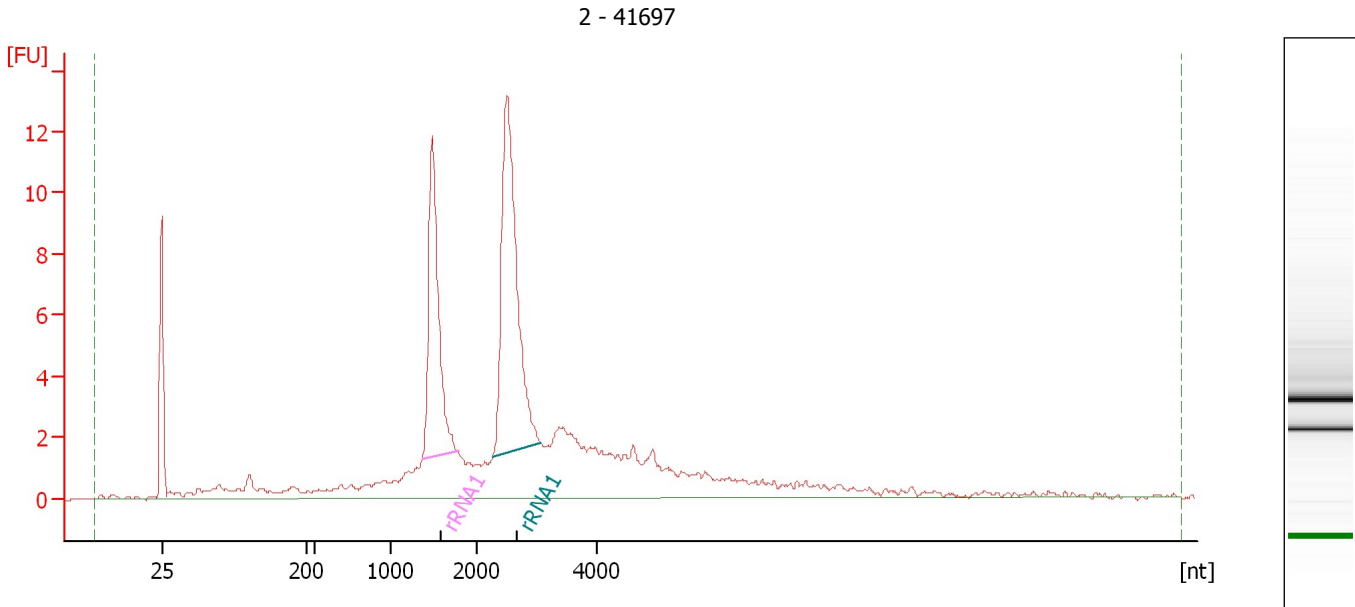
RNA Area: 205.9                      RNA Concentration: 150 ng/μl



Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 2 - 41697**

RNA Area: 138.6                      rRNA Contamination: 36.4 %  
RNA Concentration: 101 ng/μl

**Fragment table for sample 2 : 2 - 41697**

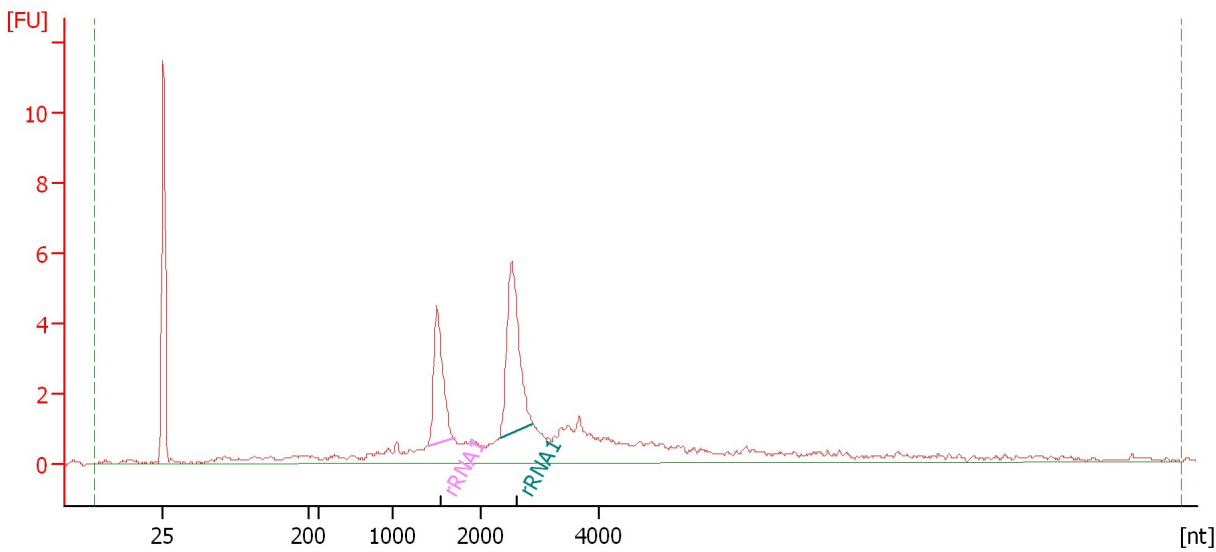
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,366	1,780	19.8	14.3
rRNA1	2,257	3,065	30.6	22.1

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

**Electropherogram Summary Continued ...**

3 - 42080



**Overall Results for sample 3 : 3 - 42080**

RNA Area: 59.8                      rRNA Contamination: 28.5 %  
RNA Concentration: 44 ng/μl

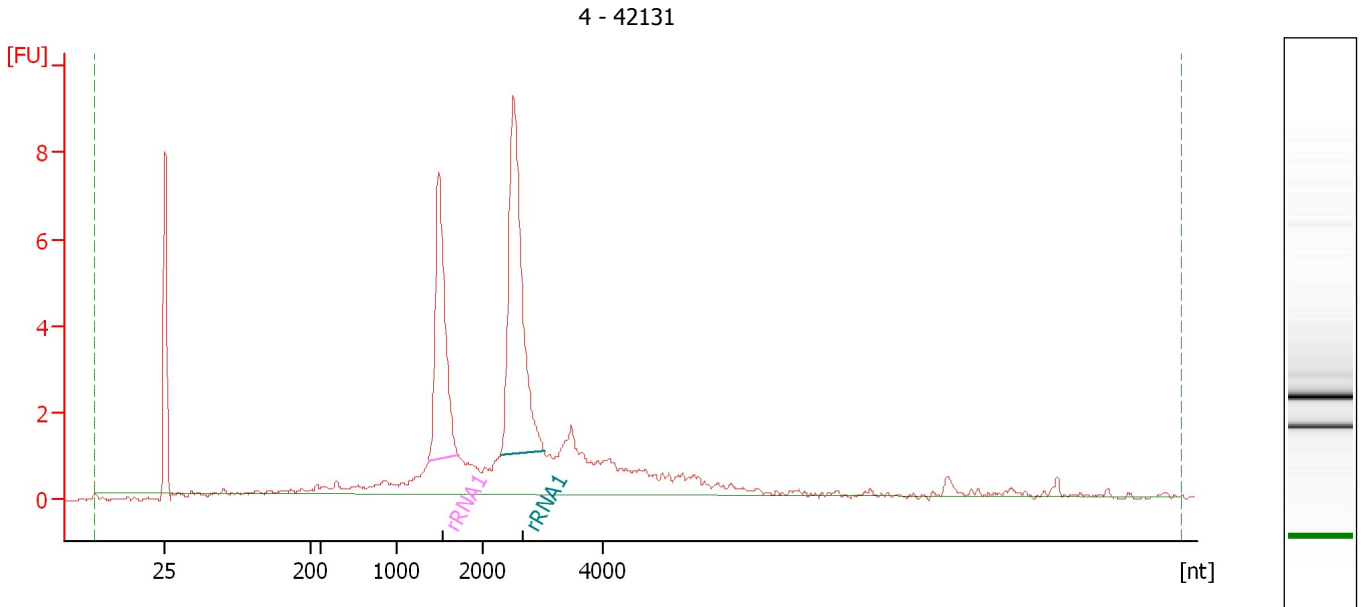
**Fragment table for sample 3 : 3 - 42080**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,397	1,699	6.7	11.3
rRNA1	2,324	2,886	10.3	17.2

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 4 - 42131**

RNA Area: 69.2                      rRNA Contamination: 45.1 %  
RNA Concentration: 50 ng/μl

**Fragment table for sample 4 : 4 - 42131**

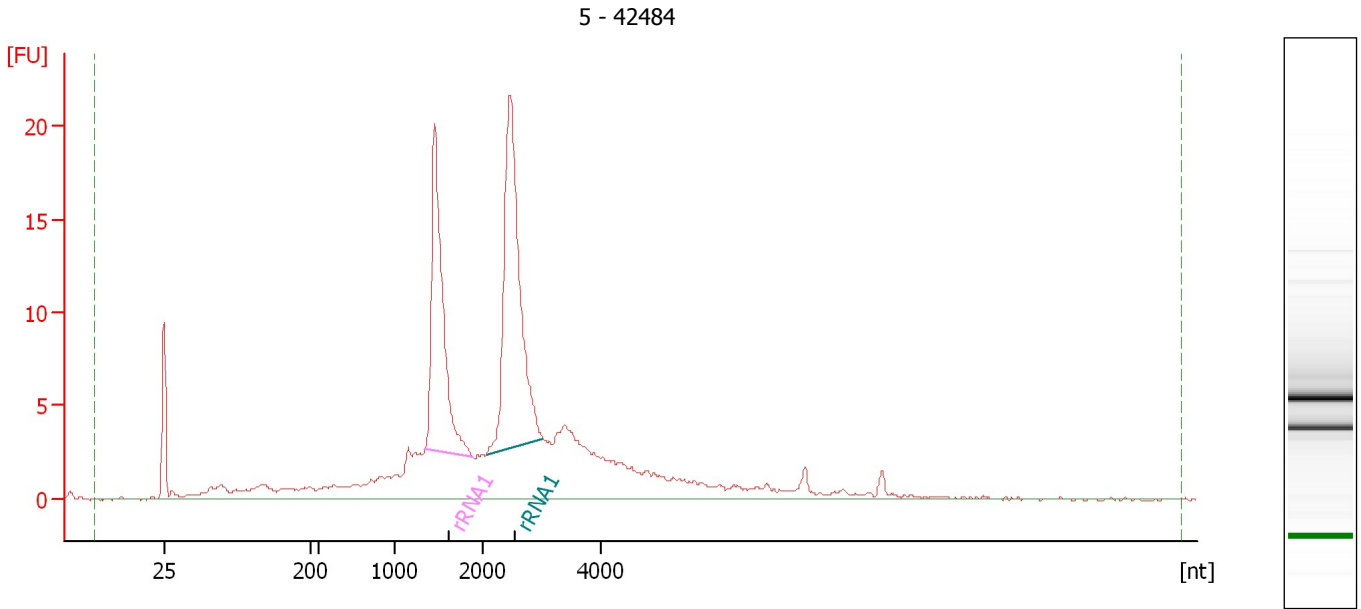
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,373	1,710	12.2	17.7
rRNA1	2,283	3,015	19.0	27.4



Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 5 - 42484**

RNA Area: 234.3                      rRNA Contamination: 37.6 %  
RNA Concentration: 171 ng/μl

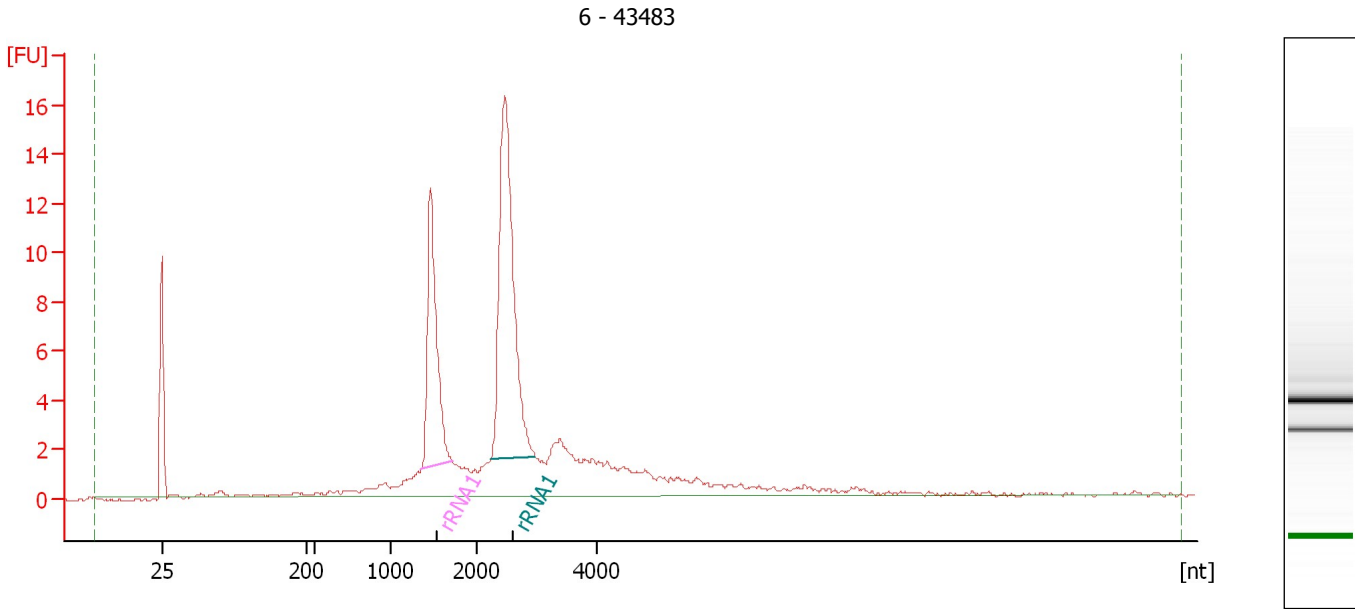
**Fragment table for sample 5 : 5 - 42484**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,353	1,892	37.1	15.9
rRNA1	2,069	3,031	50.8	21.7

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 6 - 43483**

RNA Area: 121.2                      rRNA Contamination: 46.0 %  
RNA Concentration: 88 ng/μl

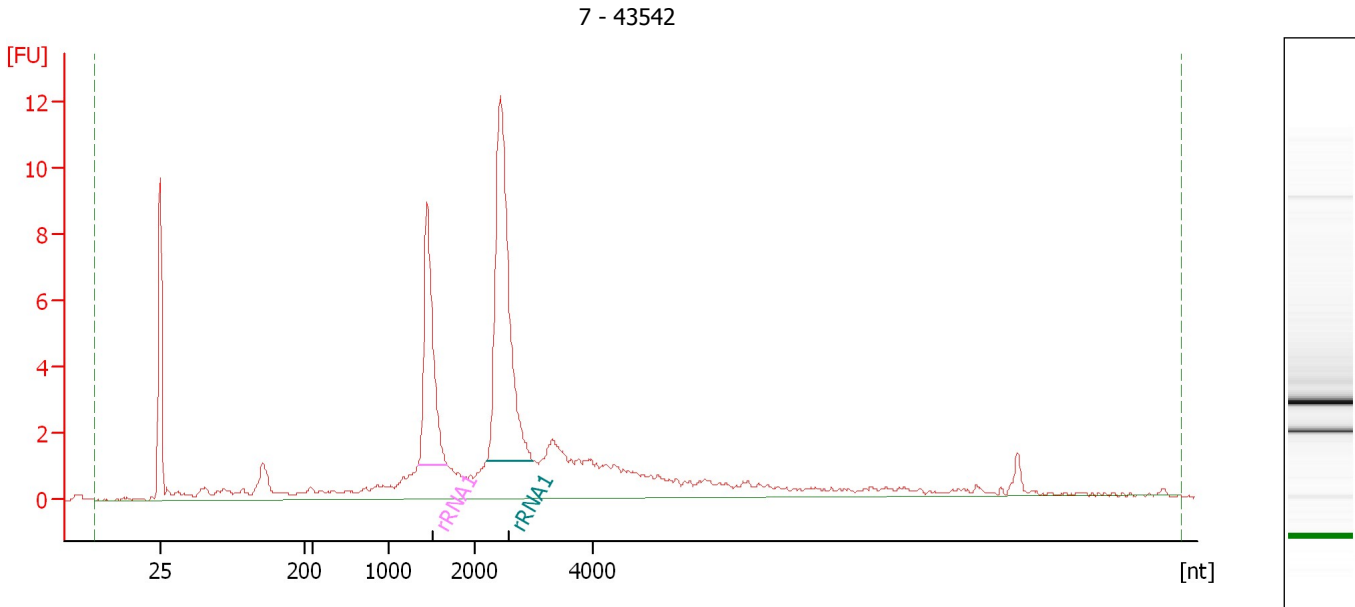
**Fragment table for sample 6 : 6 - 43483**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,357	1,707	19.6	16.2
rRNA1	2,231	2,984	36.2	29.9

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 7 - 43542**

RNA Area: 101.1                      rRNA Contamination: 38.7 %  
RNA Concentration: 74 ng/μl

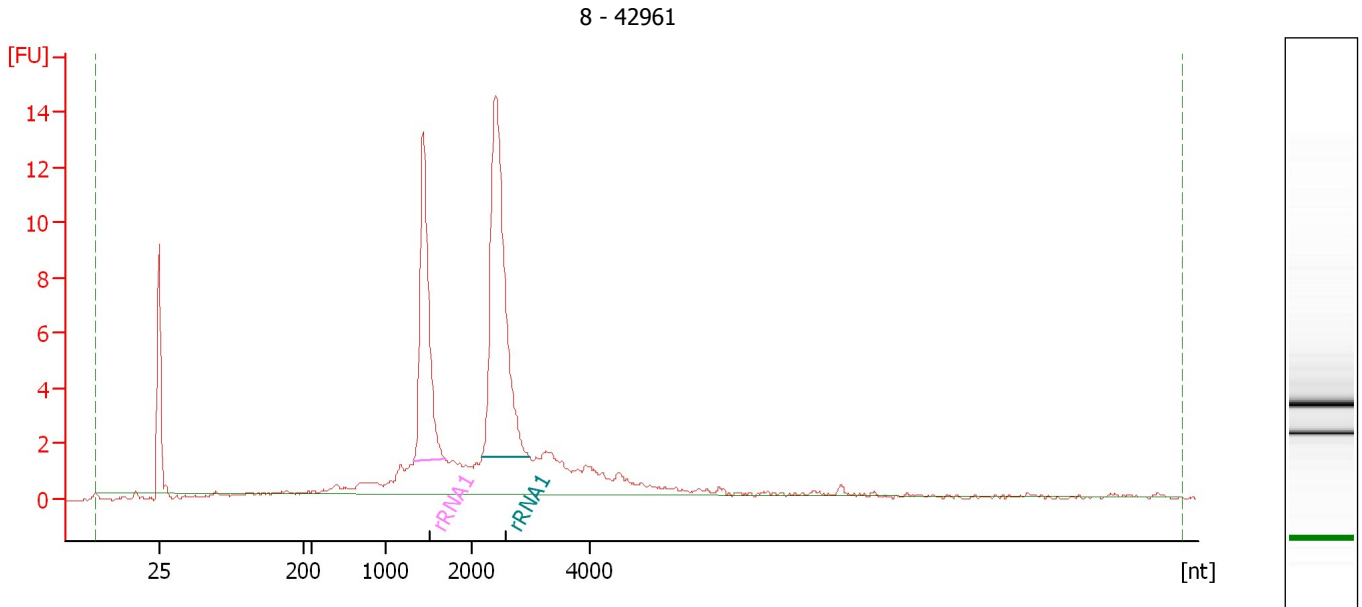
**Fragment table for sample 7 : 7 - 43542**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,354	1,686	13.6	13.4
rRNA1	2,218	2,988	25.6	25.3

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 8 - 42961**

RNA Area: 99.9                      rRNA Contamination: 53.1 %  
RNA Concentration: 73 ng/ $\mu$ l

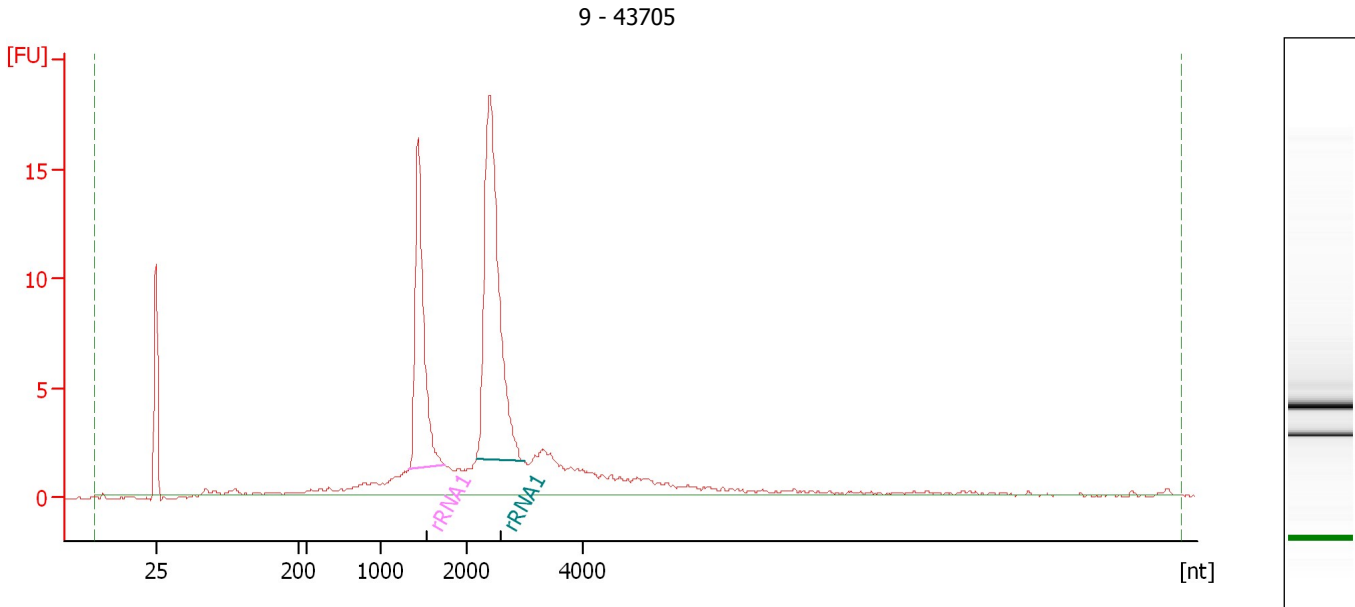
**Fragment table for sample 8 : 8 - 42961**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,322	1,694	20.3	20.3
rRNA1	2,164	2,979	32.7	32.8

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 9 - 43705**

RNA Area: 133.3                      rRNA Contamination: 50.7 %  
RNA Concentration: 97 ng/μl

**Fragment table for sample 9 : 9 - 43705**

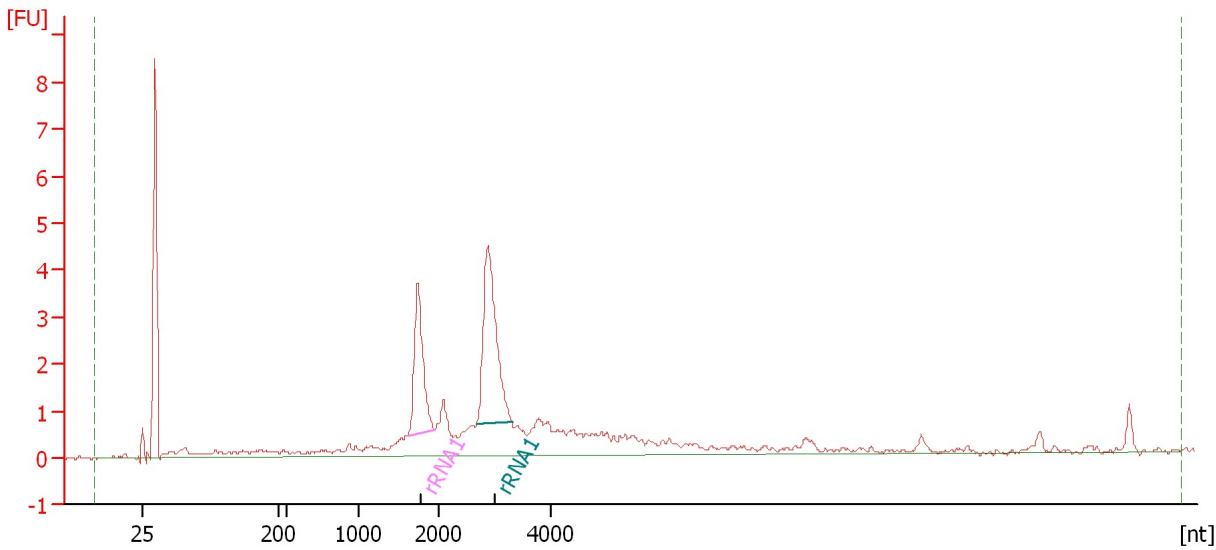
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,326	1,738	25.0	18.7
rRNA1	2,164	3,000	42.6	32.0

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

**Electropherogram Summary Continued ...**

10 - 41785



**Overall Results for sample 10 : 10 - 41785**

RNA Area: 57.5                      rRNA Contamination: 24.4 %  
RNA Concentration: 42 ng/μl

**Fragment table for sample 10 : 10 - 41785**

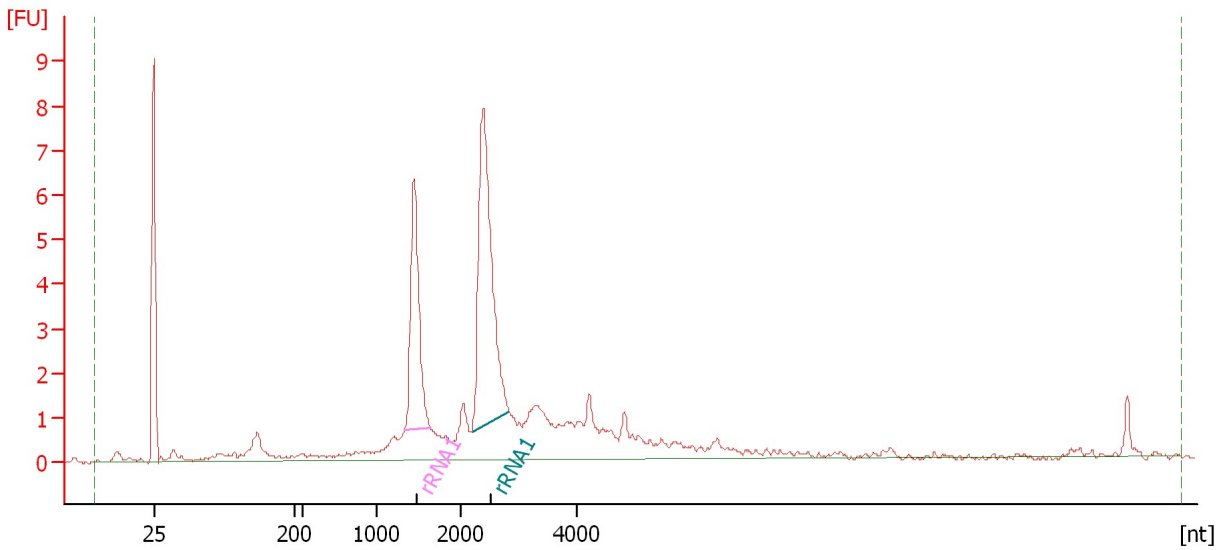
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,625	1,938	5.4	9.5
rRNA1	2,668	3,297	8.6	14.9

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

**Electropherogram Summary Continued ...**

11 - 41733



**Overall Results for sample 11 : 11 - 41733**

RNA Area: 69.8                      rRNA Contamination: 37.0 %  
RNA Concentration: 51 ng/μl

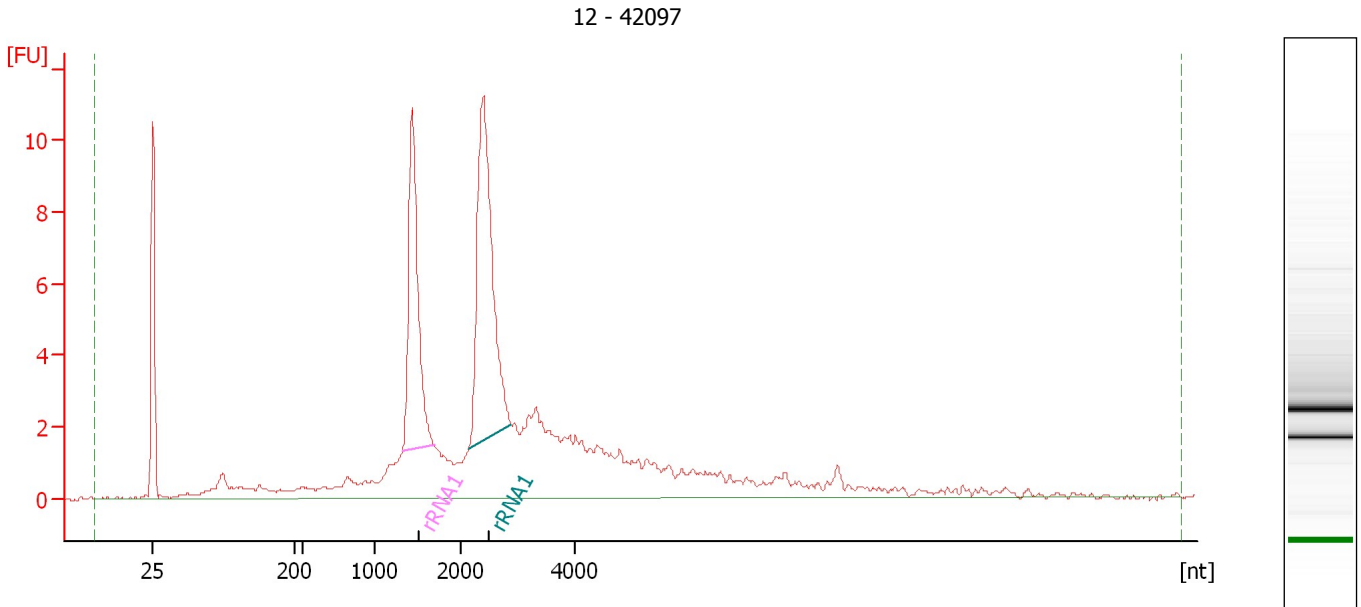
**Fragment table for sample 11 : 11 - 41733**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,330	1,632	9.3	13.3
rRNA1	2,179	2,827	16.6	23.8

Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 12 - 42097**

RNA Area: 134.4                      rRNA Contamination: 32.3 %  
RNA Concentration: 98 ng/μl

**Fragment table for sample 12 : 12 - 42097**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,318	1,697	17.6	13.1
rRNA1	2,151	2,884	25.8	19.2



Assay Class: mRNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-30\2015-07-30\_002.xad

Created: 7/30/2015 11:39:08 AM  
Modified: 7/30/2015 12:05:25 PM

**Gel Image**

