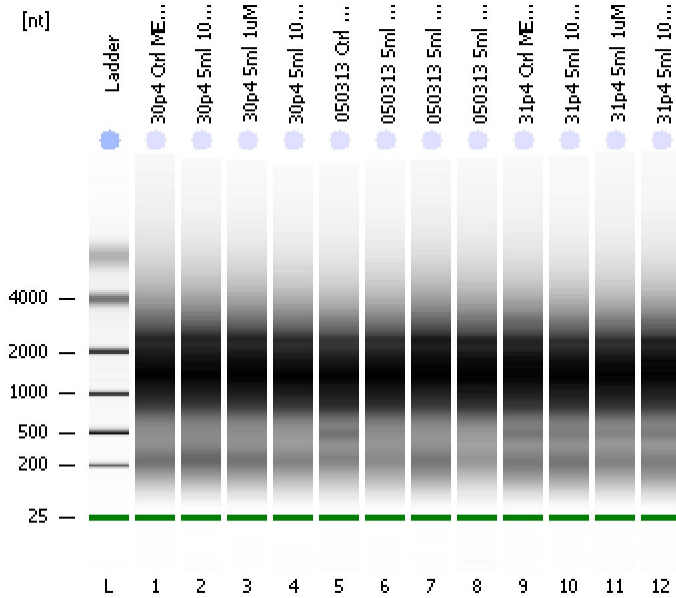


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

Electrophoresis File Run Summary



Instrument Information:

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

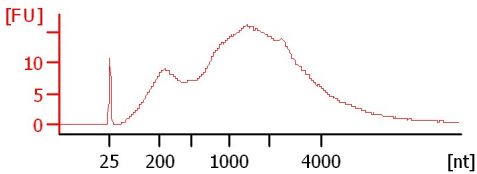
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy  
Assay Class: Eukaryote Total RNA Nano  
Version: 2.6  
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)  
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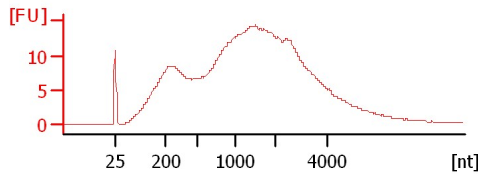
Chip Information:

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

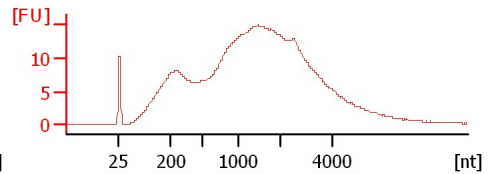
**30p4 Ctrl MEMa**  
RIN:3



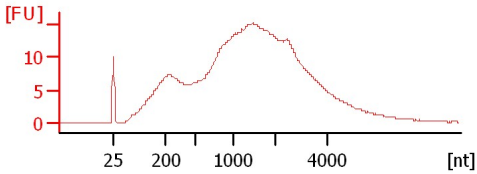
**30p4 5ml 100nM**  
RIN: 3.60



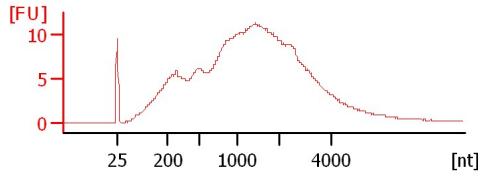
**30p4 5ml 1uM**  
RIN: 3.10



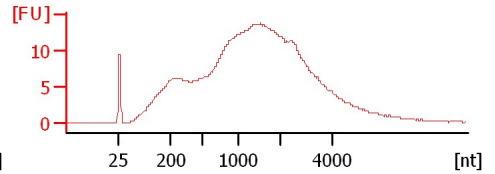
**30p4 5ml 10uM**  
RIN: 3.20



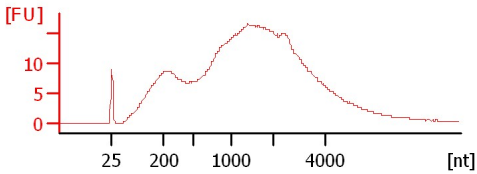
**050313 Ctrl MEMa**  
RIN: 2.80



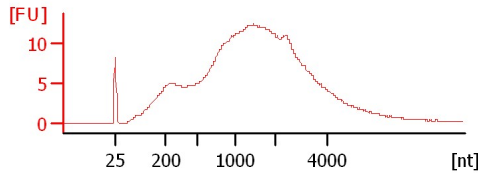
**050313 5ml 100nM**  
RIN: 4.50



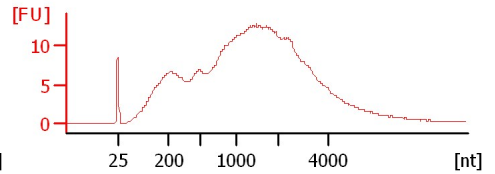
**050313 5ml 1uM**  
RIN: 2.90



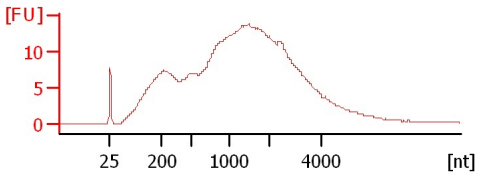
**050313 5ml 10uM**  
RIN: 3.30



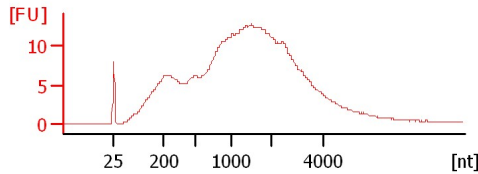
**31p4 Ctrl MEMa**  
RIN: 2.70



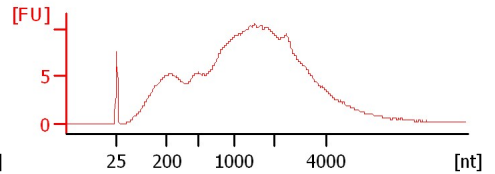
**31p4 5ml 100nM**  
RIN: 3.60



**31p4 5ml 1uM**  
RIN: 2.10



**31p4 5ml 10uM**  
RIN:3



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
 Modified: 10/30/2013 8:58:07 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
30p4 Ctrl MEMa		✓	RIN:3	
30p4 5ml 100nM		✓	RIN: 3.60	
30p4 5ml 1uM		✓	RIN: 3.10	
30p4 5ml 10uM		✓	RIN: 3.20	
050313 Ctrl MEMa		✓	RIN: 2.80	
050313 5ml 100nM		✓	RIN: 4.50	
050313 5ml 1uM		✓	RIN: 2.90	
050313 5ml 10uM		✓	RIN: 3.30	
31p4 Ctrl MEMa		✓	RIN: 2.70	
31p4 5ml 100nM		✓	RIN: 3.60	
31p4 5ml 1uM		✓	RIN: 2.10	
31p4 5ml 10uM		✓	RIN:3	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**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

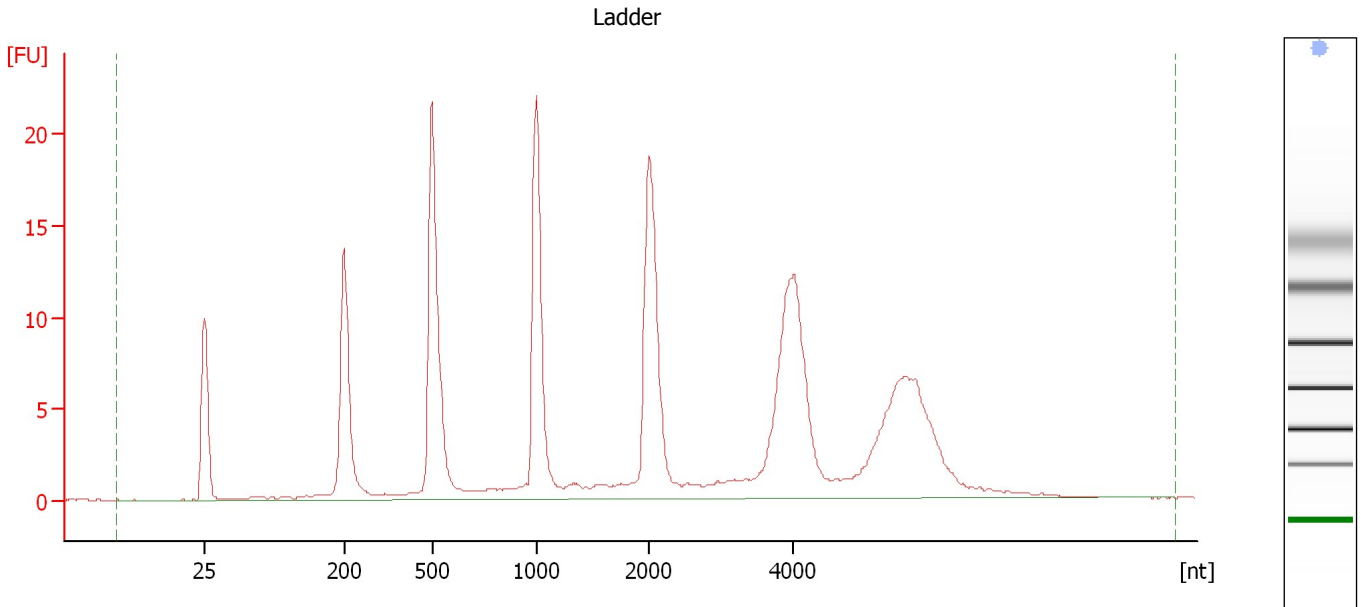
**Ladder**

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\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**Electropherogram Summary**



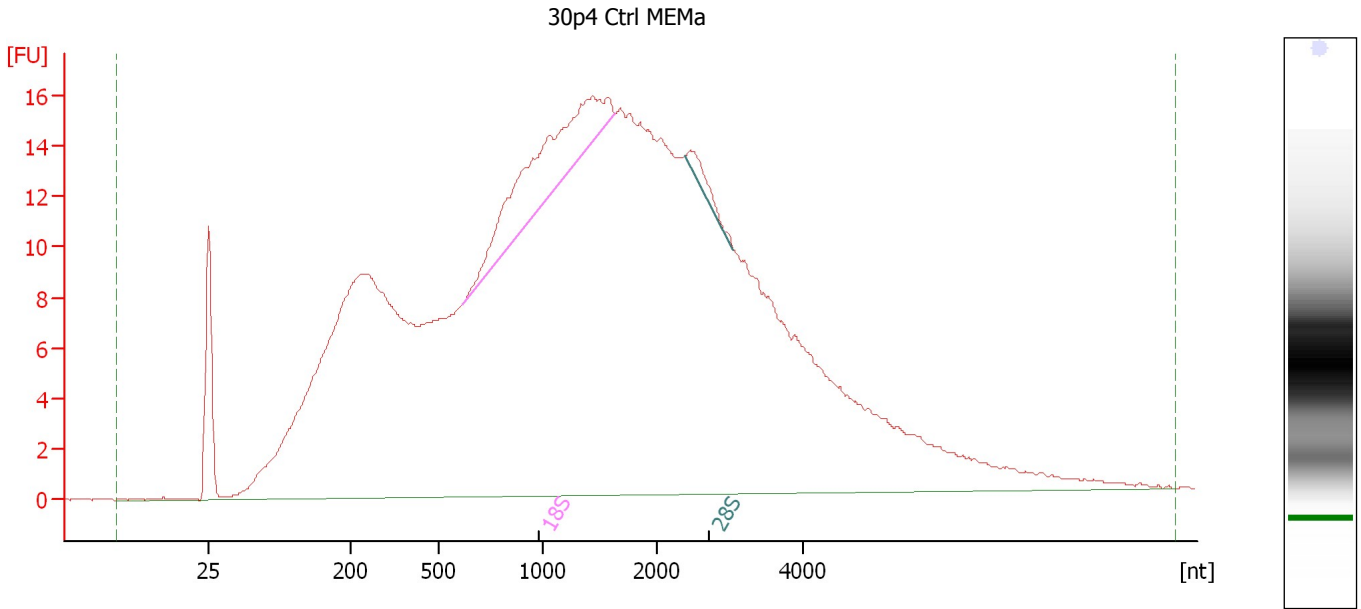
**Overall Results for Ladder**

RNA Area:	210.1	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 30p4 Ctrl MEMa**

RNA Area: 683.1 RNA Integrity Number (RIN): 3 (B.02.08)  
RNA Concentration: 488 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN:3

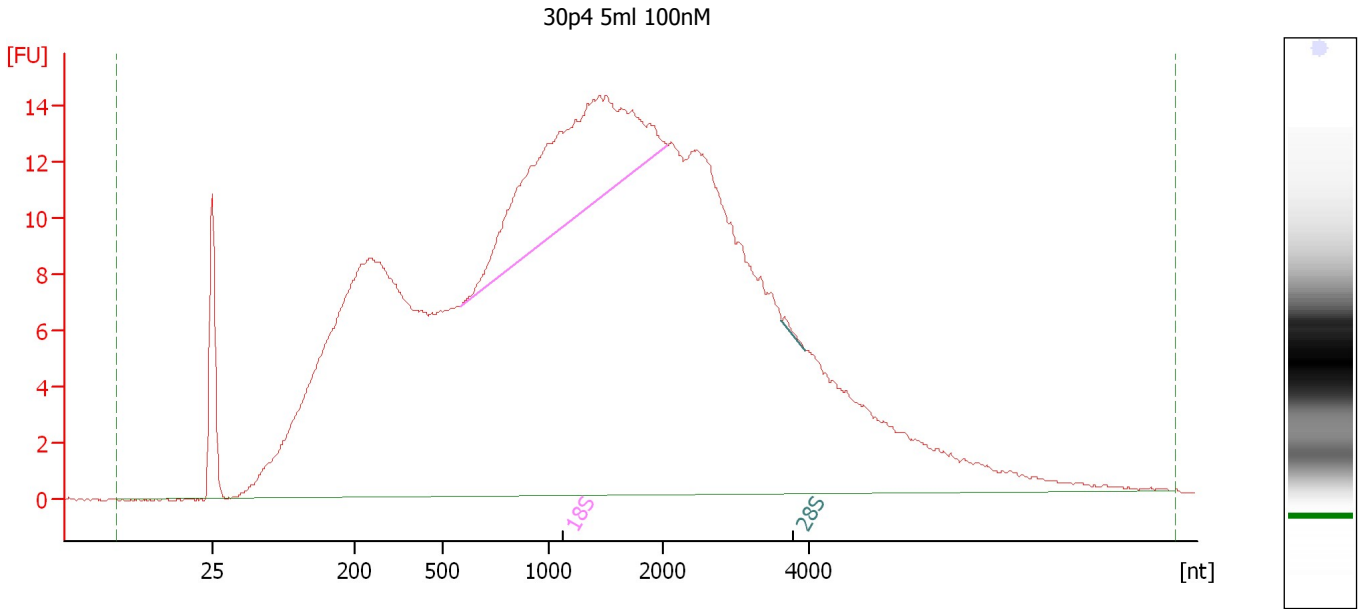
**Fragment table for sample 1 : 30p4 Ctrl MEMa**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	618	1,630	28.3	4.1
28S	2,388	3,049	2.2	0.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 30p4 5ml 100nM**

RNA Area: 618.0 RNA Integrity Number (RIN): 3.6 (B.02.08)  
RNA Concentration: 441 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 3.60

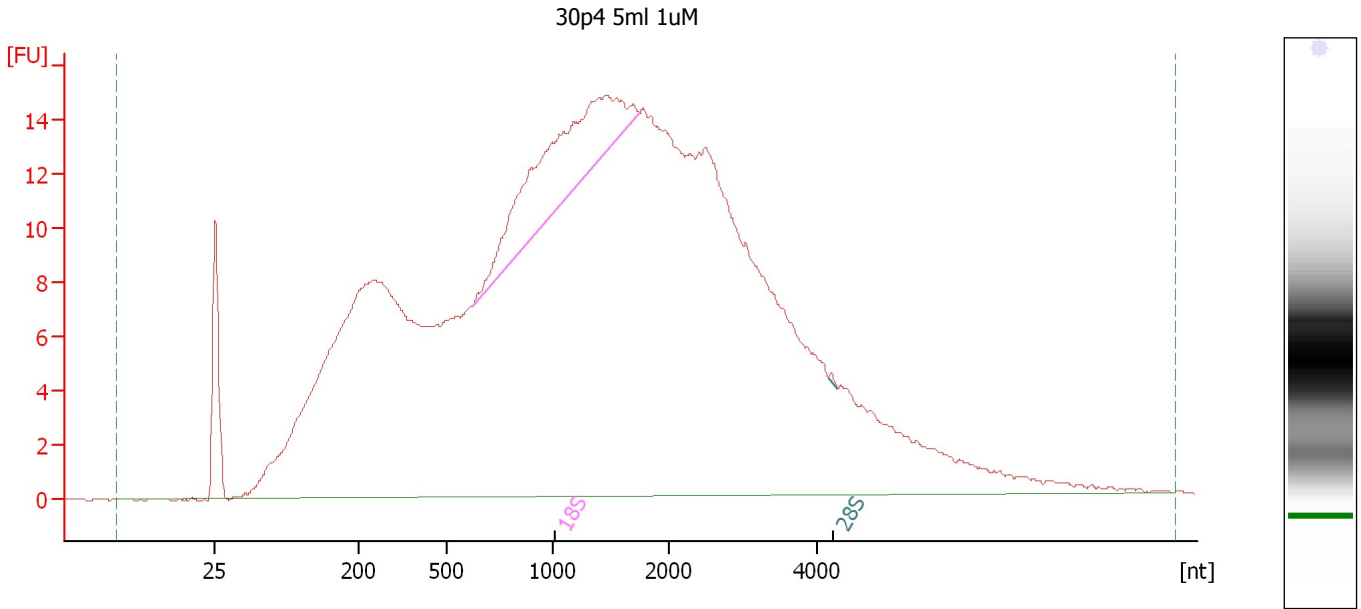
**Fragment table for sample 2 : 30p4 5ml 100nM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	585	2,055	52.6	8.5
28S	3,617	3,924	0.3	0.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 30p4 5ml 1uM**

RNA Area: 632.2                      RNA Integrity Number (RIN): 3.1 (B.02.08)  
RNA Concentration: 451 ng/µl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.0                      Result Flagging Label: RIN: 3.10

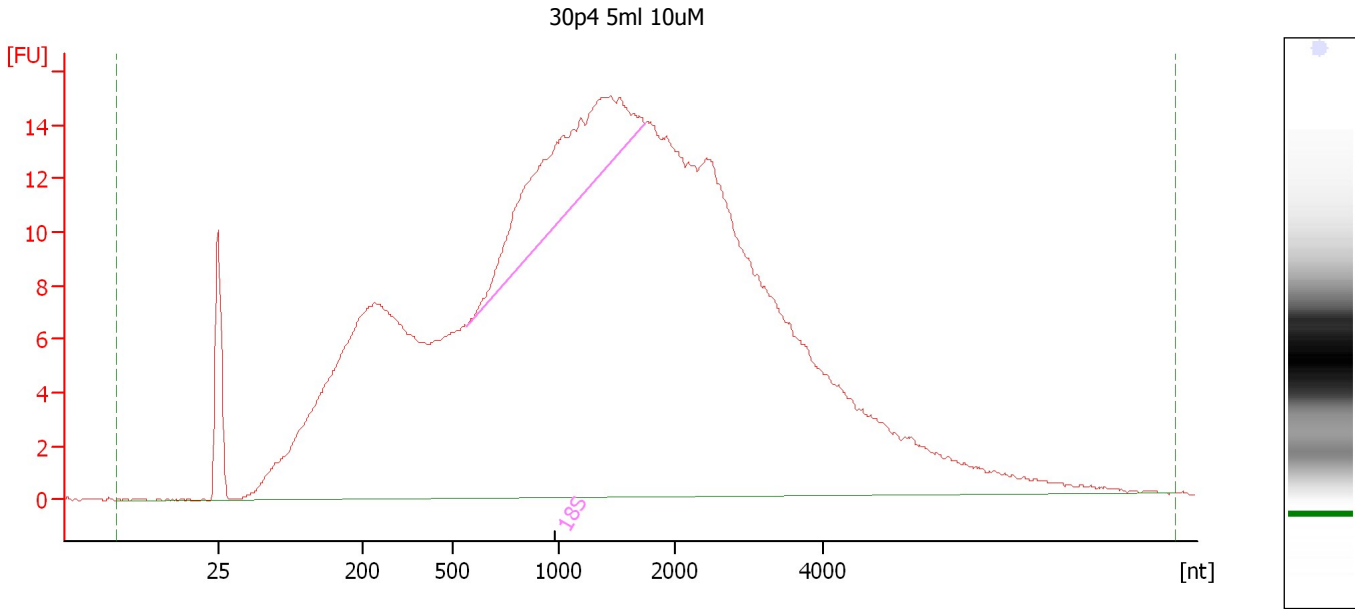
**Fragment table for sample 3 : 30p4 5ml 1uM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	618	1,743	34.2	5.4
28S	4,164	4,280	0.2	0.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 30p4 5ml 10uM**

RNA Area: 609.1 RNA Integrity Number (RIN): 3.2 (B.02.08)  
RNA Concentration: 435 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 3.20

**Fragment table for sample 4 : 30p4 5ml 10uM**

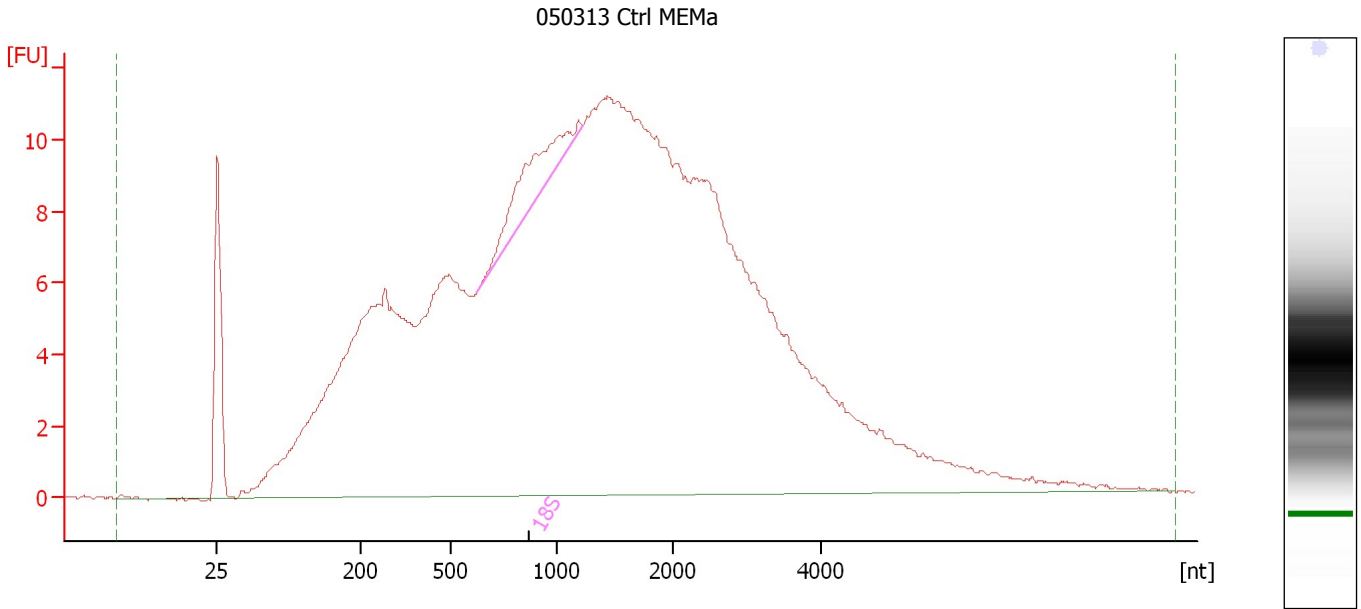
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	570	1,738	40.2	6.6



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 050313 Ctrl MEMa**

RNA Area:	452.2	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	323 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

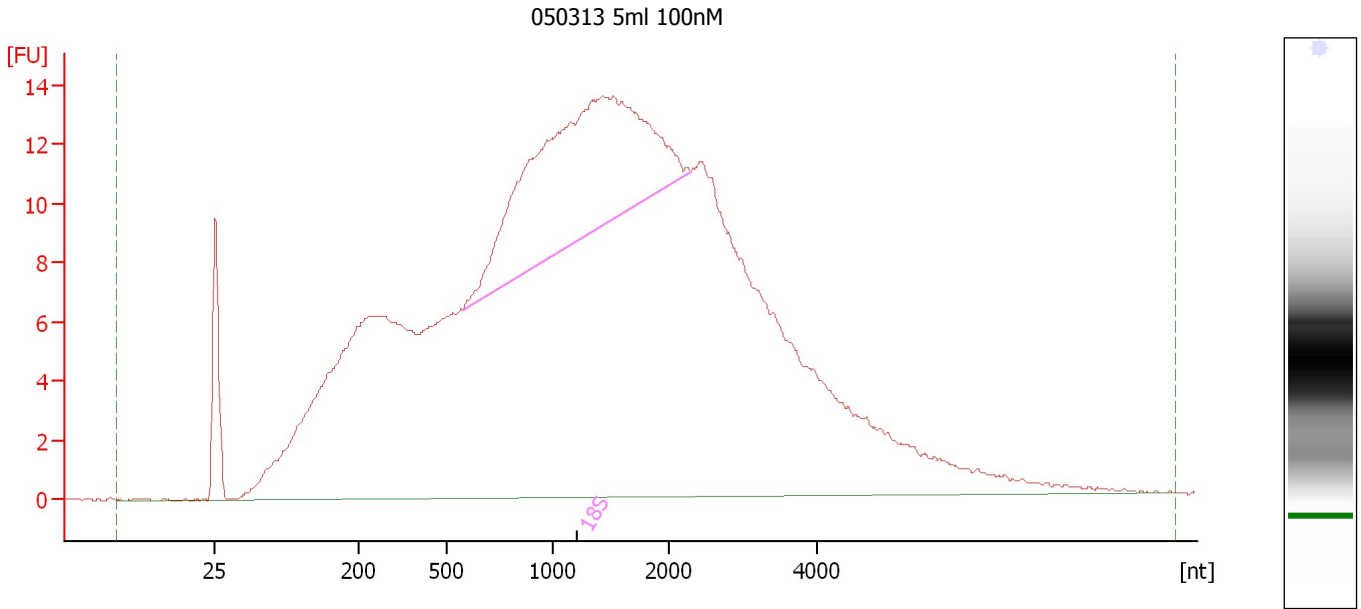
**Fragment table for sample 5 : 050313 Ctrl MEMa**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	623	1,221	8.8	1.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 050313 5ml 100nM**

RNA Area:	554.5	RNA Integrity Number (RIN):	4.5 (B.02.08)
RNA Concentration:	396 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: 4.50

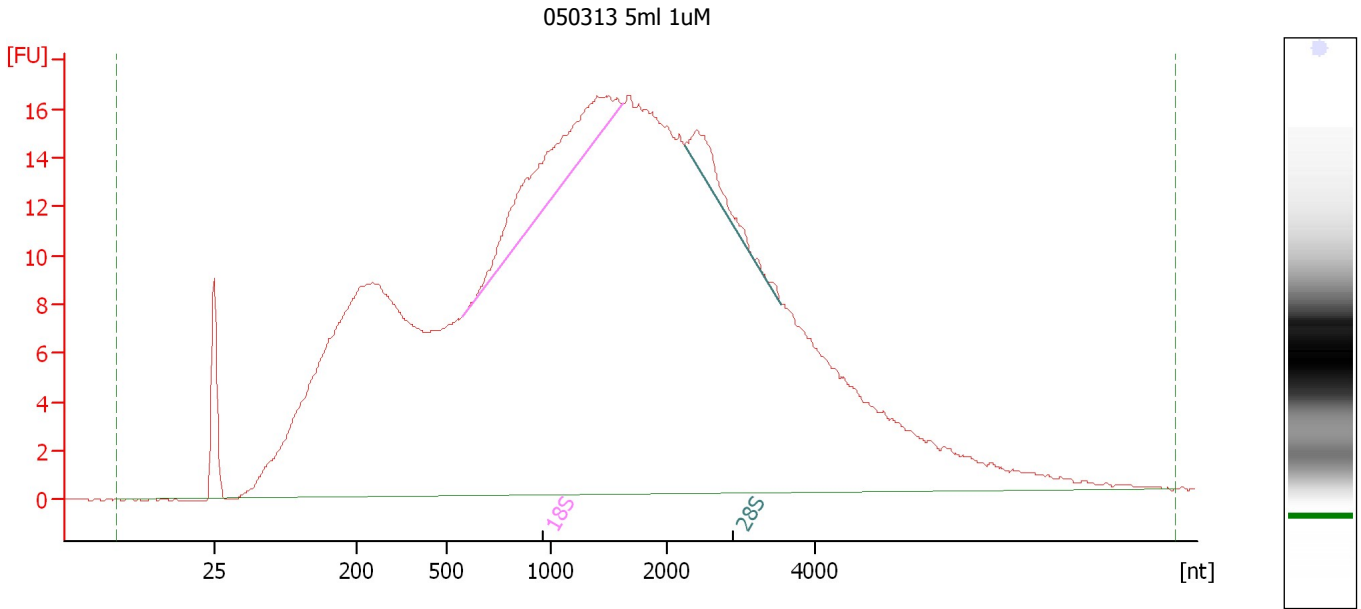
**Fragment table for sample 6 : 050313 5ml 100nM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	573	2,292	71.0	12.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 050313 5ml 1uM**

RNA Area: 710.6                      RNA Integrity Number (RIN): 2.9 (B.02.08)  
RNA Concentration: 507 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.2                      Result Flagging Label: RIN: 2.90

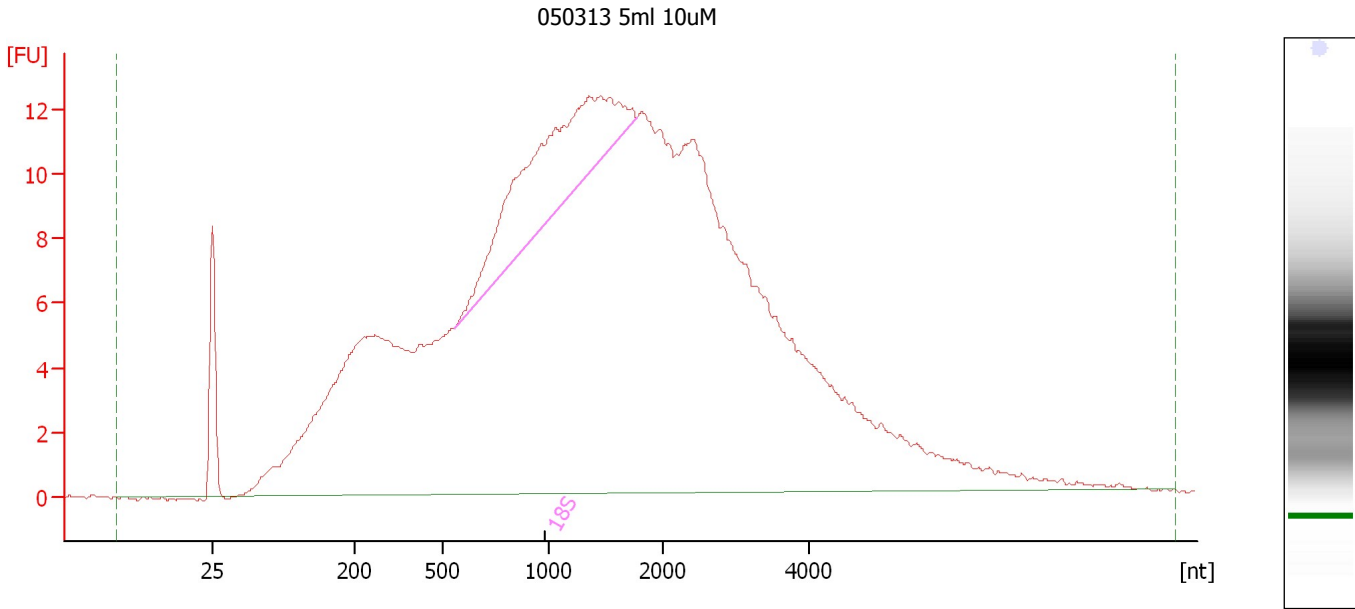
**Fragment table for sample 7 : 050313 5ml 1uM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	580	1,621	25.7	3.6
28S	2,233	3,541	6.1	0.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 050313 5ml 10uM**

RNA Area: 489.2 RNA Integrity Number (RIN): 3.3 (B.02.08)  
RNA Concentration: 349 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 3.30

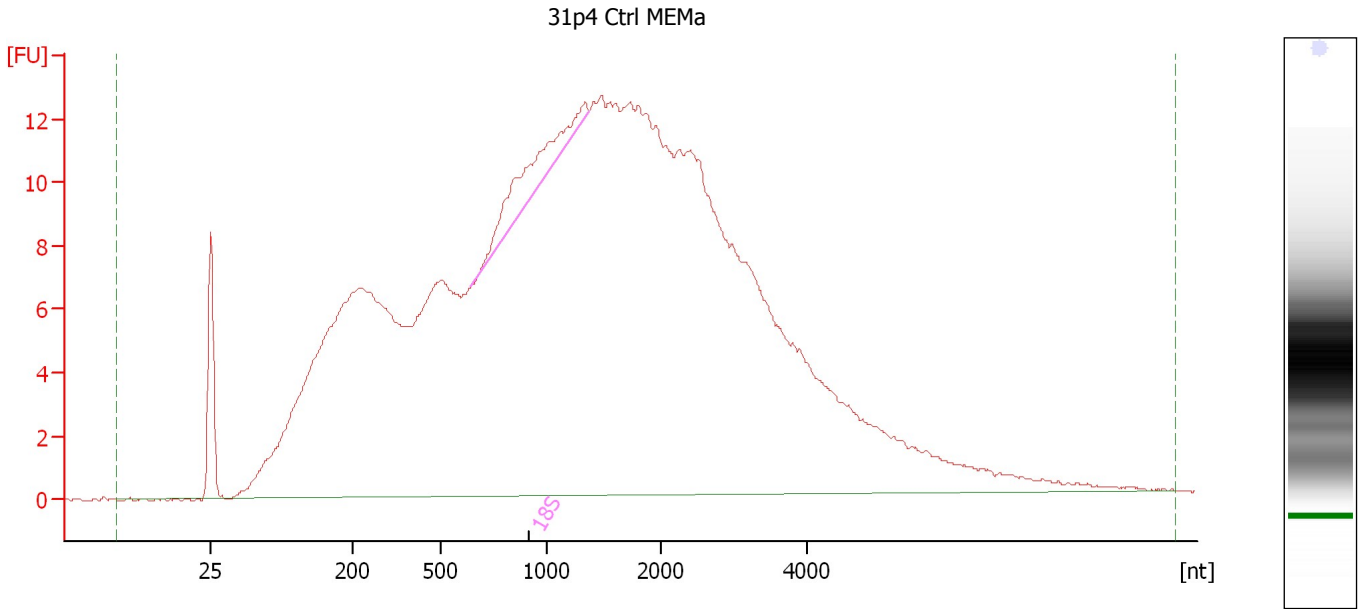
**Fragment table for sample 8 : 050313 5ml 10uM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	560	1,775	36.4	7.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 31p4 Ctrl MEMa**

RNA Area: 542.9 RNA Integrity Number (RIN): 2.7 (B.02.08)  
RNA Concentration: 388 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.70

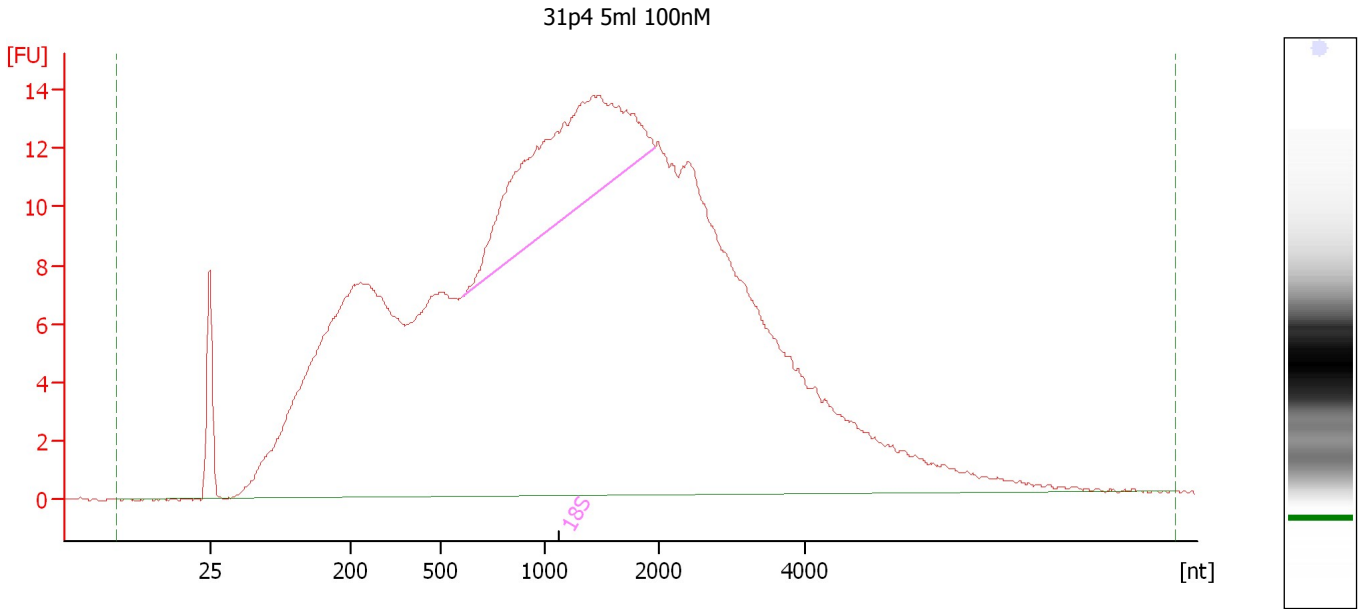
**Fragment table for sample 9 : 31p4 Ctrl MEMa**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	644	1,373	10.1	1.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 31p4 5ml 100nM**

RNA Area:	575.1	RNA Integrity Number (RIN):	3.6 (B.02.08)
RNA Concentration:	411 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: 3.60

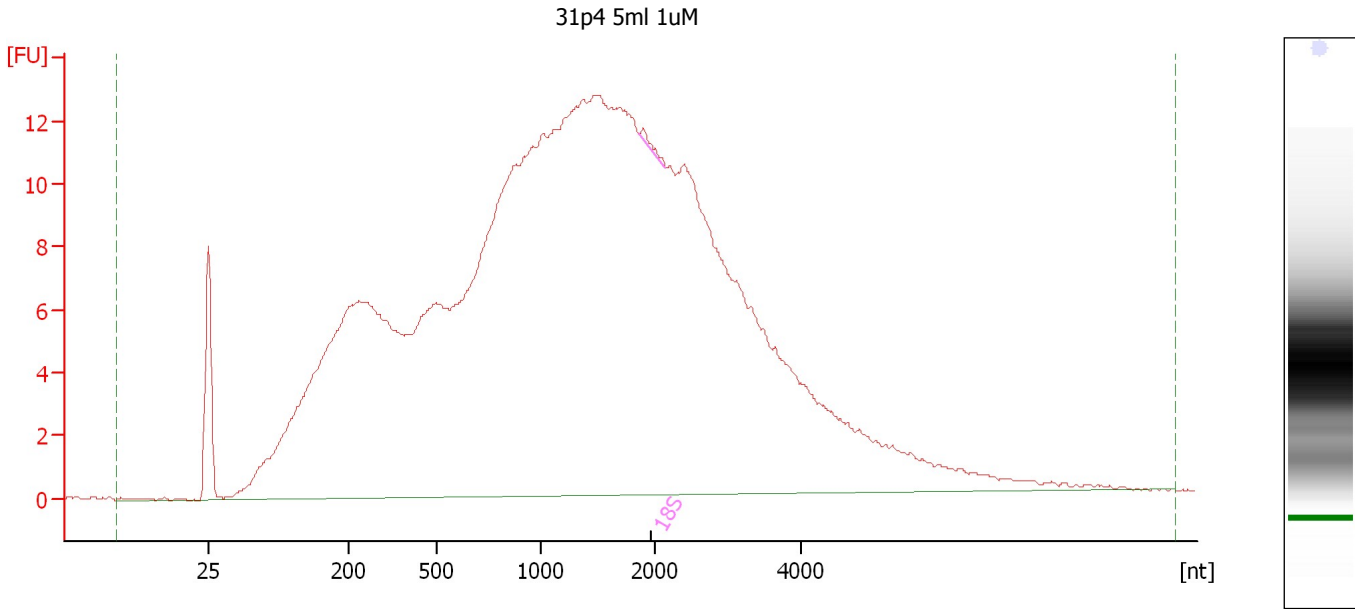
**Fragment table for sample 10 : 31p4 5ml 100nM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	610	1,968	50.7	8.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 31p4 5ml 1uM**

RNA Area: 520.5                      RNA Integrity Number (RIN): 2.1 (B.02.08)  
RNA Concentration: 372 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.0                      Result Flagging Label: RIN: 2.10

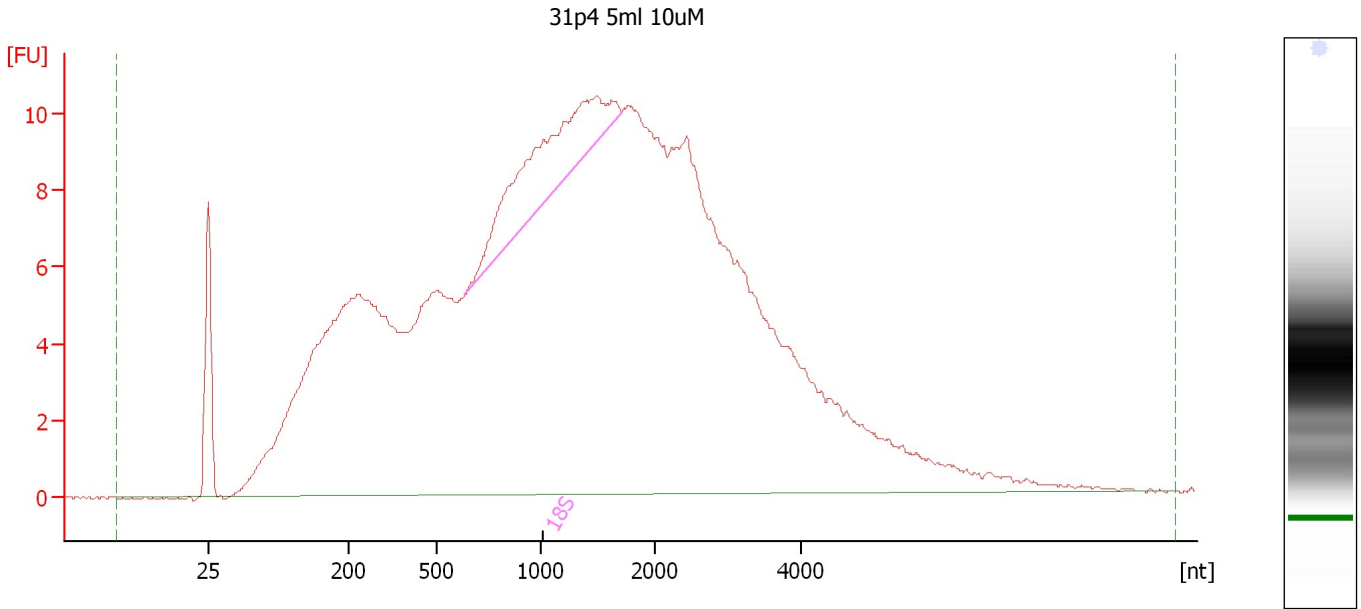
**Fragment table for sample 11 : 31p4 5ml 1uM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,853	2,137	0.5	0.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 31p4 5ml 10uM**

RNA Area:	440.1	RNA Integrity Number (RIN):	3 (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:3

**Fragment table for sample 12 : 31p4 5ml 10uM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	636	1,703	20.8	4.7



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-30\2013-10-30\_001.xad

Created: 10/30/2013 8:34:12 AM  
Modified: 10/30/2013 8:58:07 AM

**Gel Image**

