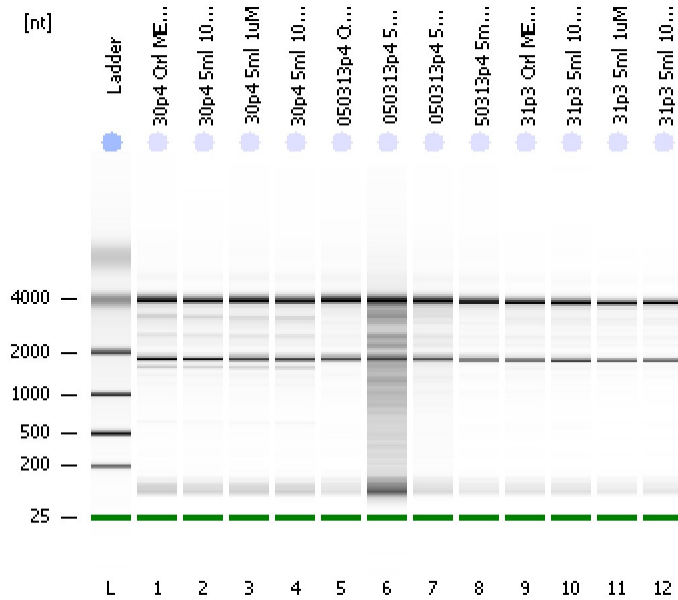


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
Modified: 10/4/2013 10:33:24 AM

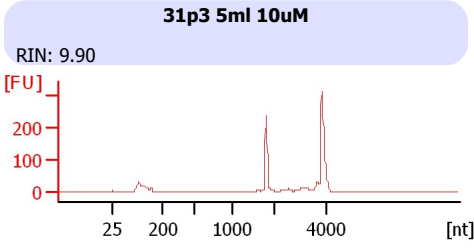
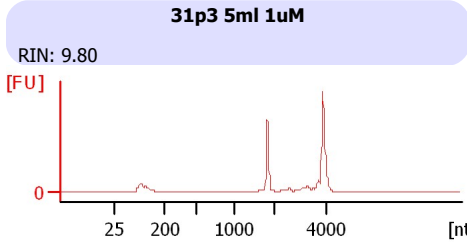
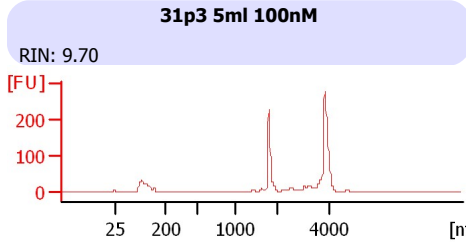
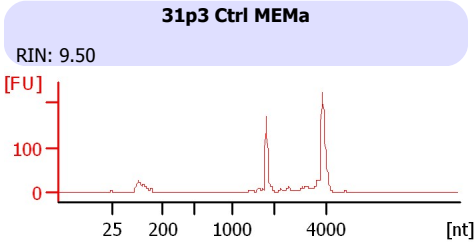
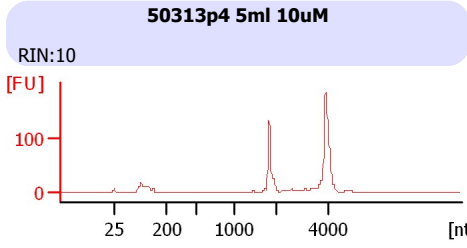
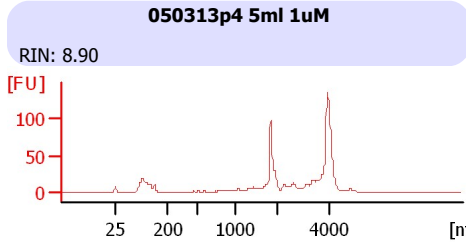
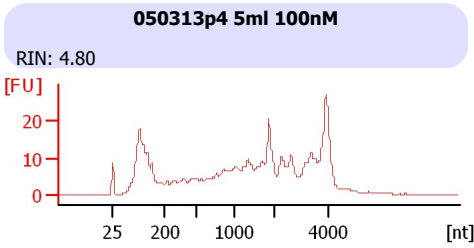
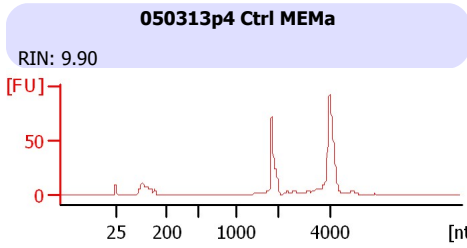
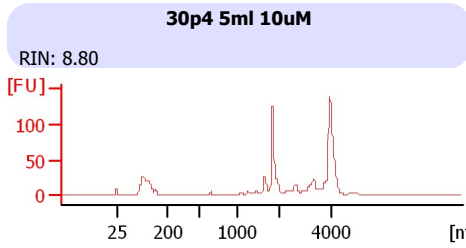
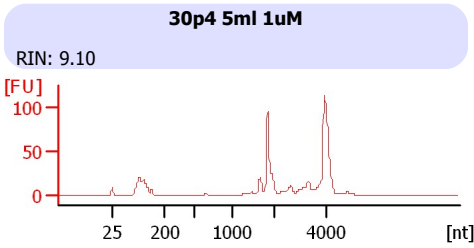
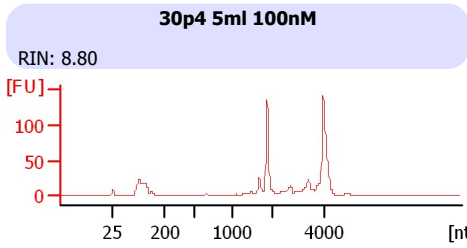
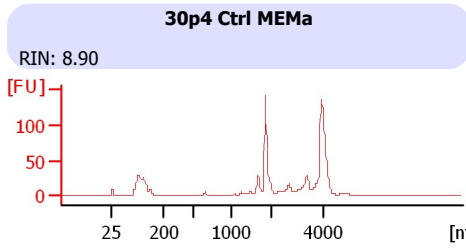
Electrophoresis File Run Summary



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:



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
 Modified: 10/4/2013 10:33:24 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
30p4 Ctrl MEMa		✓	RIN: 8.90	
30p4 5ml 100nM		✓	RIN: 8.80	
30p4 5ml 1uM		✓	RIN: 9.10	
30p4 5ml 10uM		✓	RIN: 8.80	
050313p4 Ctrl MEMa		✓	RIN: 9.90	
050313p4 5ml 100nM		✓	RIN: 4.80	
050313p4 5ml 1uM		✓	RIN: 8.90	
50313p4 5ml 10uM		✓	RIN:10	
31p3 Ctrl MEMa		✓	RIN: 9.50	
31p3 5ml 100nM		✓	RIN: 9.70	
31p3 5ml 1uM		✓	RIN: 9.80	
31p3 5ml 10uM		✓	RIN: 9.90	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
Modified: 10/4/2013 10:33:24 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

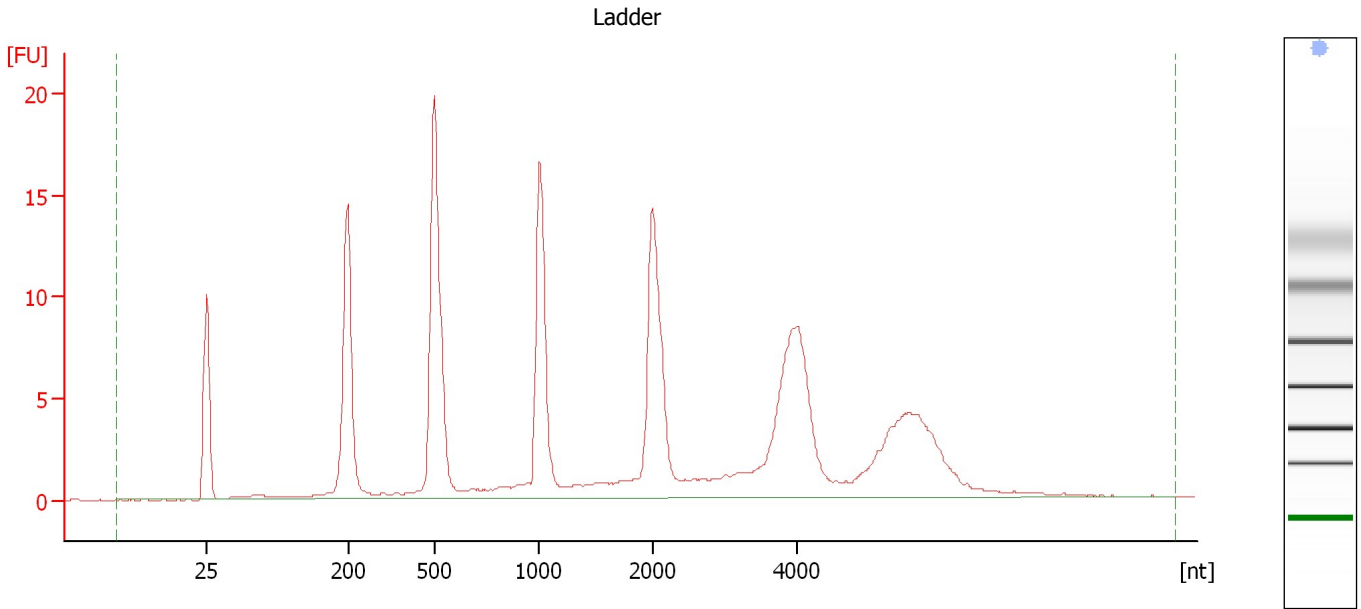
Ladder

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\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
Modified: 10/4/2013 10:33:24 AM

Electropherogram Summary



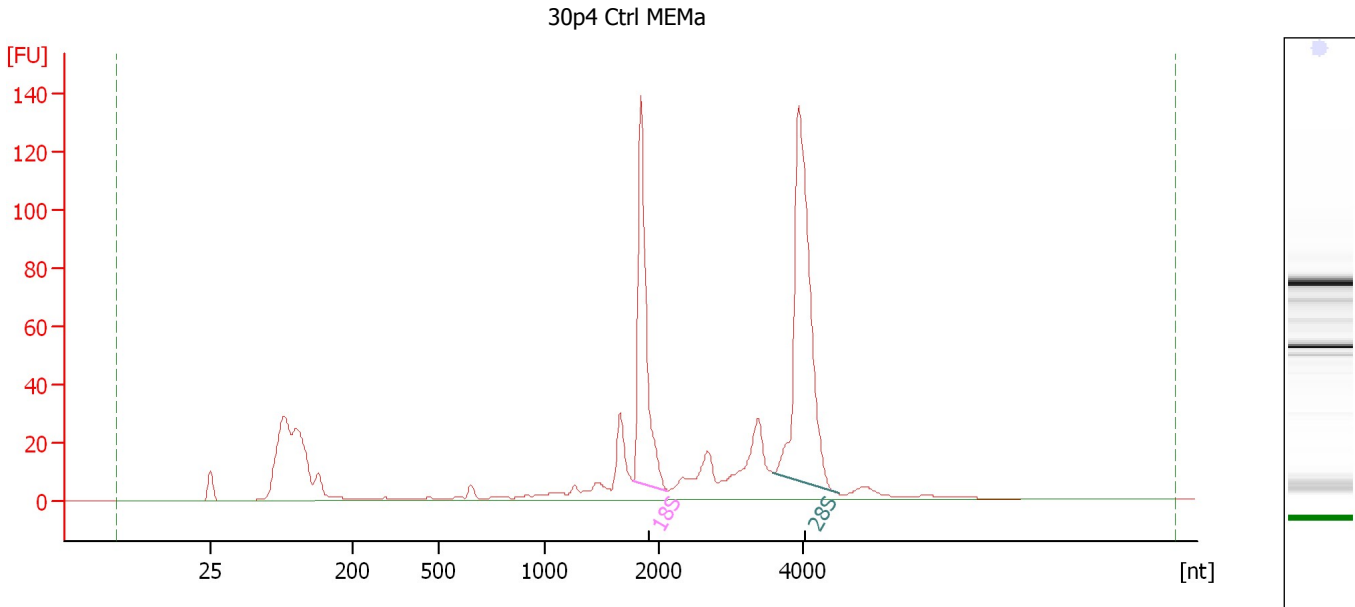
Overall Results for Ladder

RNA Area:	179.0	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
 Modified: 10/4/2013 10:33:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 30p4 Ctrl MEMa

RNA Area:	772.5	RNA Integrity Number (RIN):	8.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	647 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.90

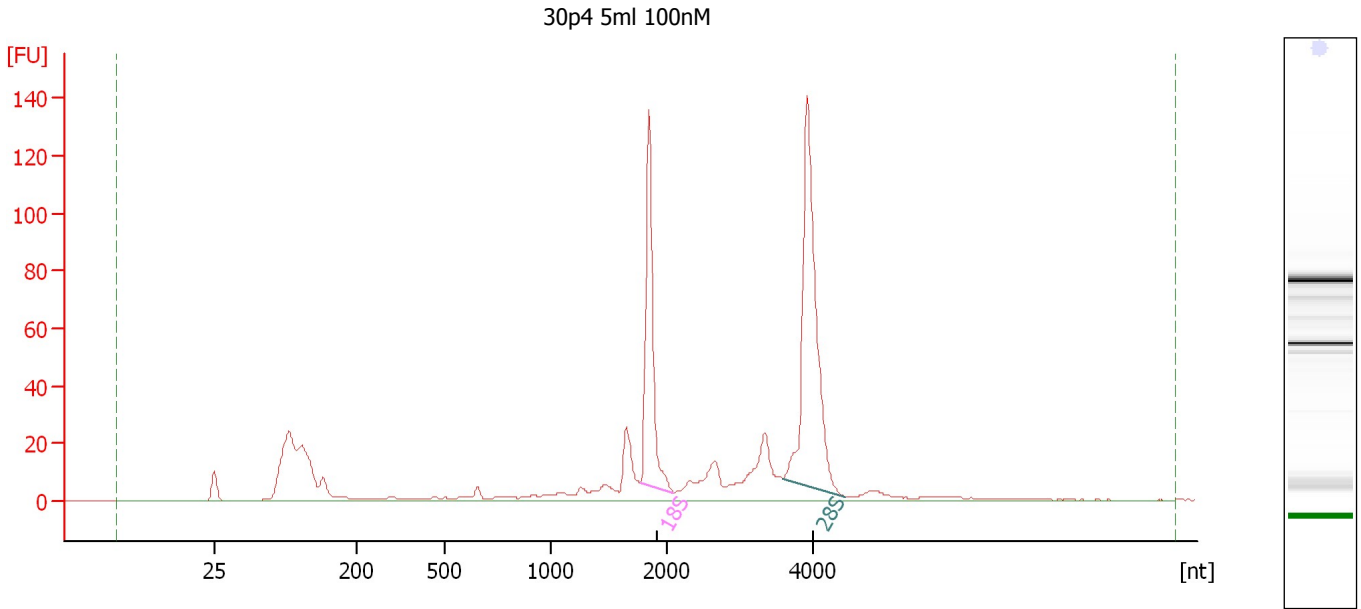
Fragment table for sample 1 : 30p4 Ctrl MEMa

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,778	2,123	131.4	17.0
28S	3,580	4,478	211.5	27.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
Modified: 10/4/2013 10:33:24 AM

Electropherogram Summary Continued ...



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

RNA Area: 658.9 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 552 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 8.80

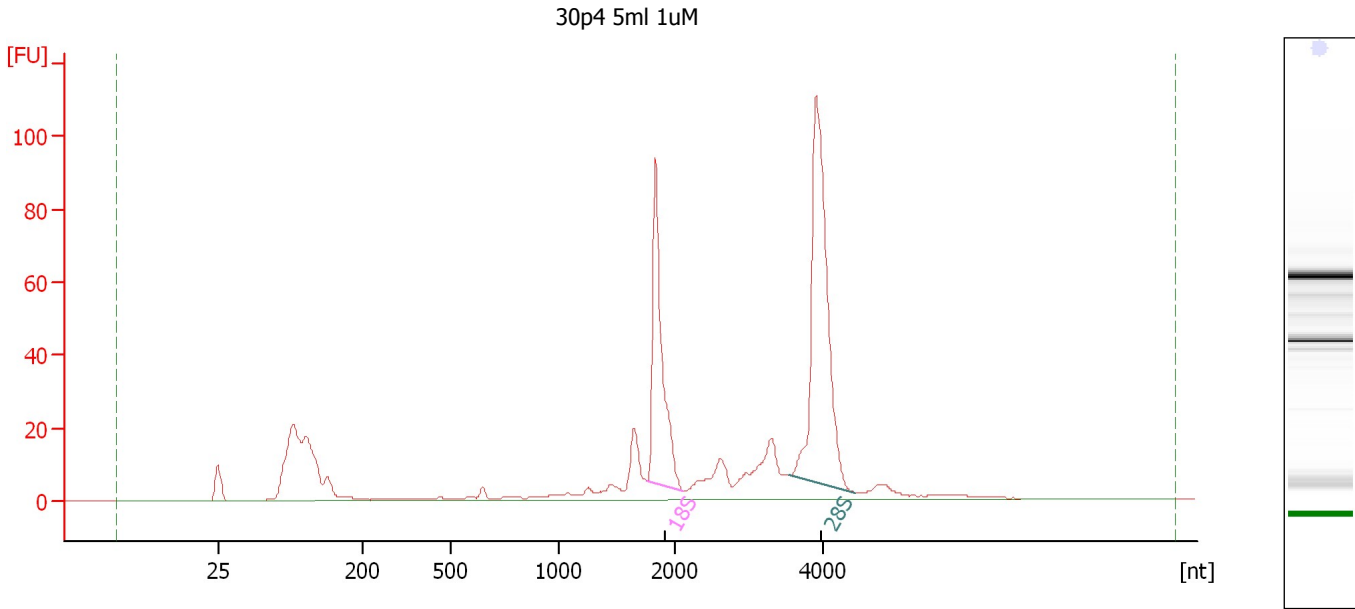
Fragment table for sample 2 : 30p4 5ml 100nM

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,775	2,099	110.9	16.8
28S	3,589	4,435	183.8	27.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
 Modified: 10/4/2013 10:33:24 AM

Electropherogram Summary Continued ...



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

RNA Area: 579.6 RNA Integrity Number (RIN): 9.1 (B.02.08)
 RNA Concentration: 486 ng/μl Result Flagging Color:
 rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.10

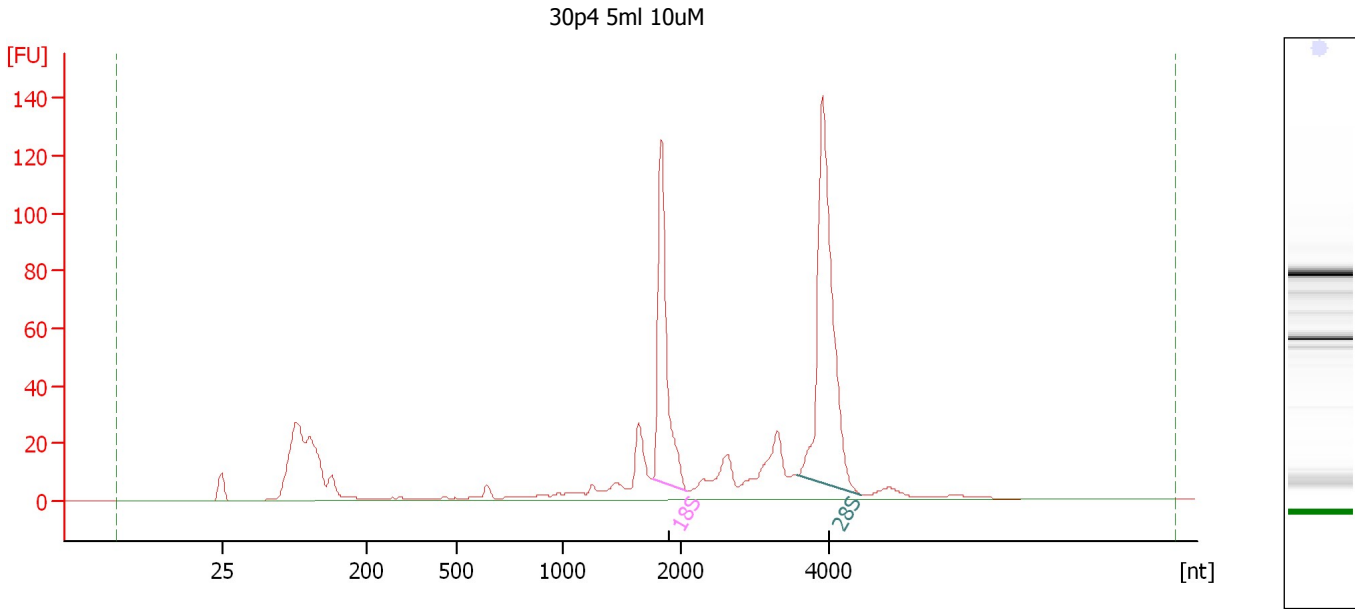
Fragment table for sample 3 : 30p4 5ml 1uM

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,763	2,106	98.8	17.0
28S	3,553	4,437	169.6	29.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
Modified: 10/4/2013 10:33:24 AM

Electropherogram Summary Continued ...



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

RNA Area: 729.8 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 611 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 8.80

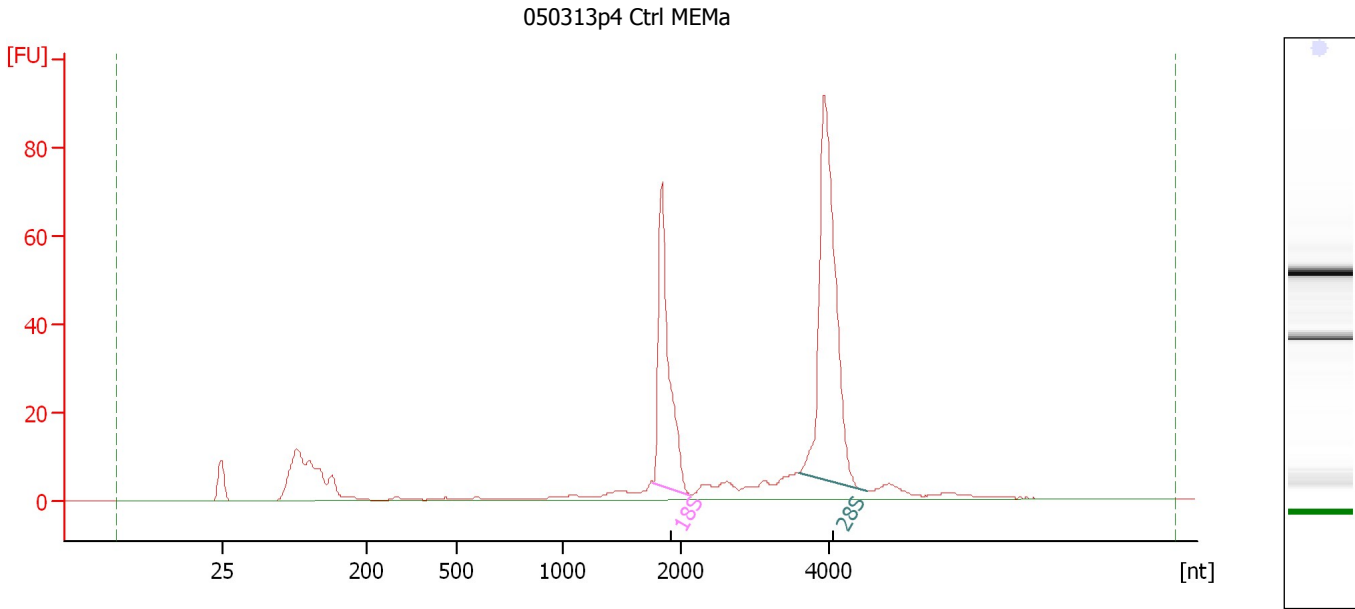
Fragment table for sample 4 : 30p4 5ml 10uM

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,768	2,096	117.9	16.2
28S	3,578	4,427	198.7	27.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
Modified: 10/4/2013 10:33:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 050313p4 Ctrl MEMa

RNA Area: 402.9 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 338 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.90

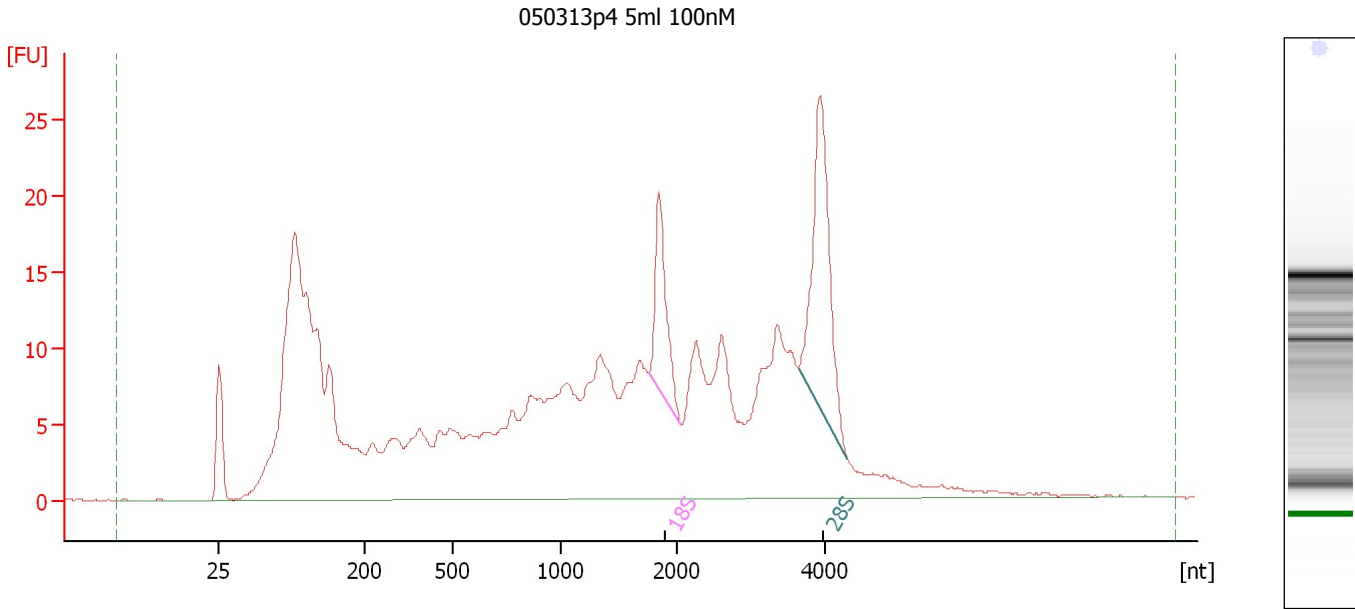
Fragment table for sample 5 : 050313p4 Ctrl MEMa

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,768	2,124	80.7	20.0
28S	3,592	4,499	144.1	35.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
Modified: 10/4/2013 10:33:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 050313p4 5ml 100nM

RNA Area: 529.6 RNA Integrity Number (RIN): 4.8 (B.02.08)
RNA Concentration: 444 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN: 4.80

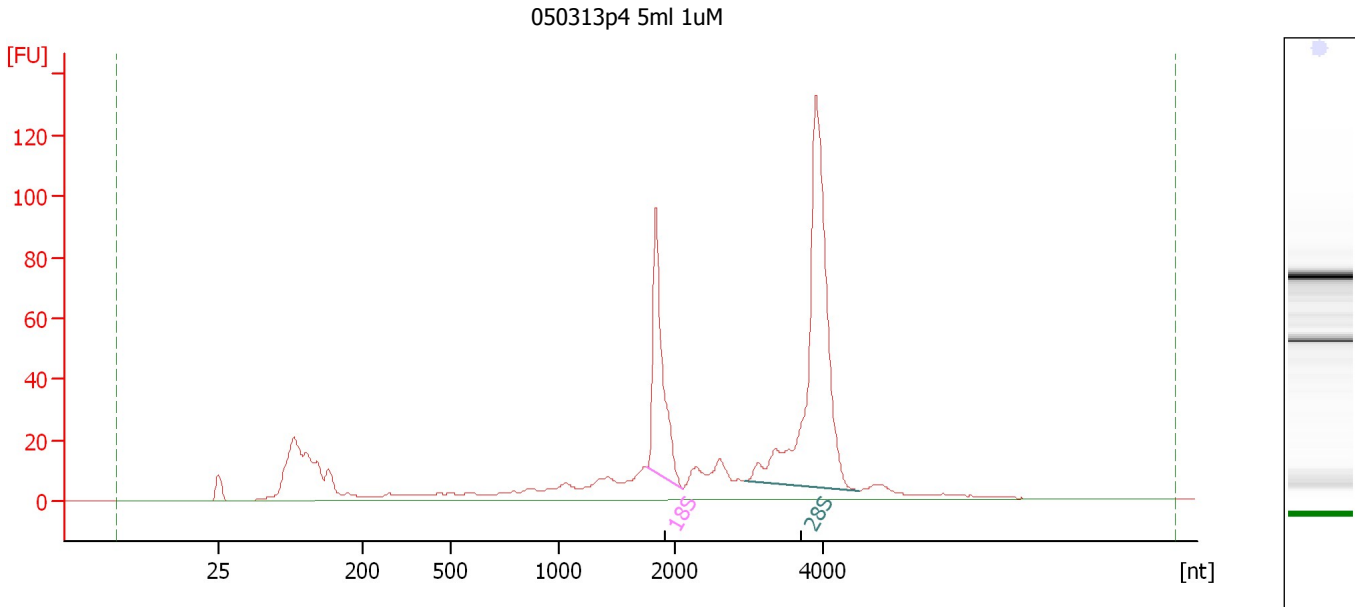
Fragment table for sample 6 : 050313p4 5ml 100nM

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,764	2,049	16.6	3.1
28S	3,653	4,318	35.2	6.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
Modified: 10/4/2013 10:33:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 050313p4 5ml 1uM

RNA Area: 760.4 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 637 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.5 Result Flagging Label: RIN: 8.90

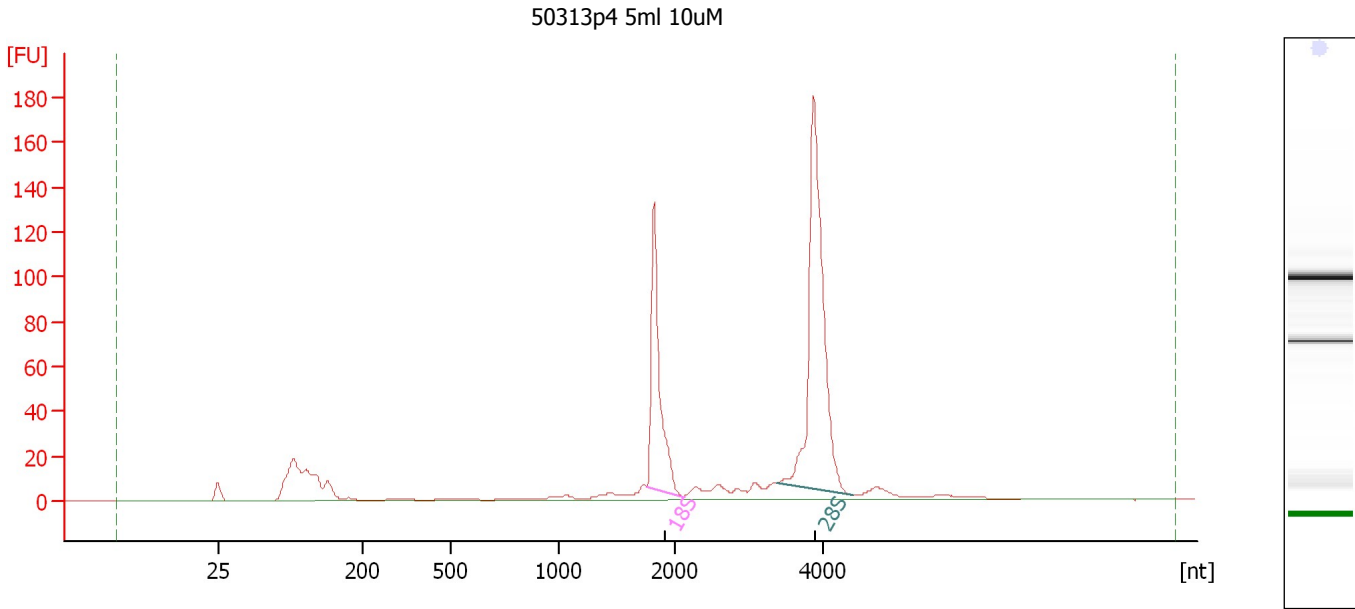
Fragment table for sample 7 : 050313p4 5ml 1uM

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,763	2,106	100.1	13.2
28S	2,945	4,509	251.9	33.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
Modified: 10/4/2013 10:33:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 50313p4 5ml 10uM

RNA Area: 646.5 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 542 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN:10

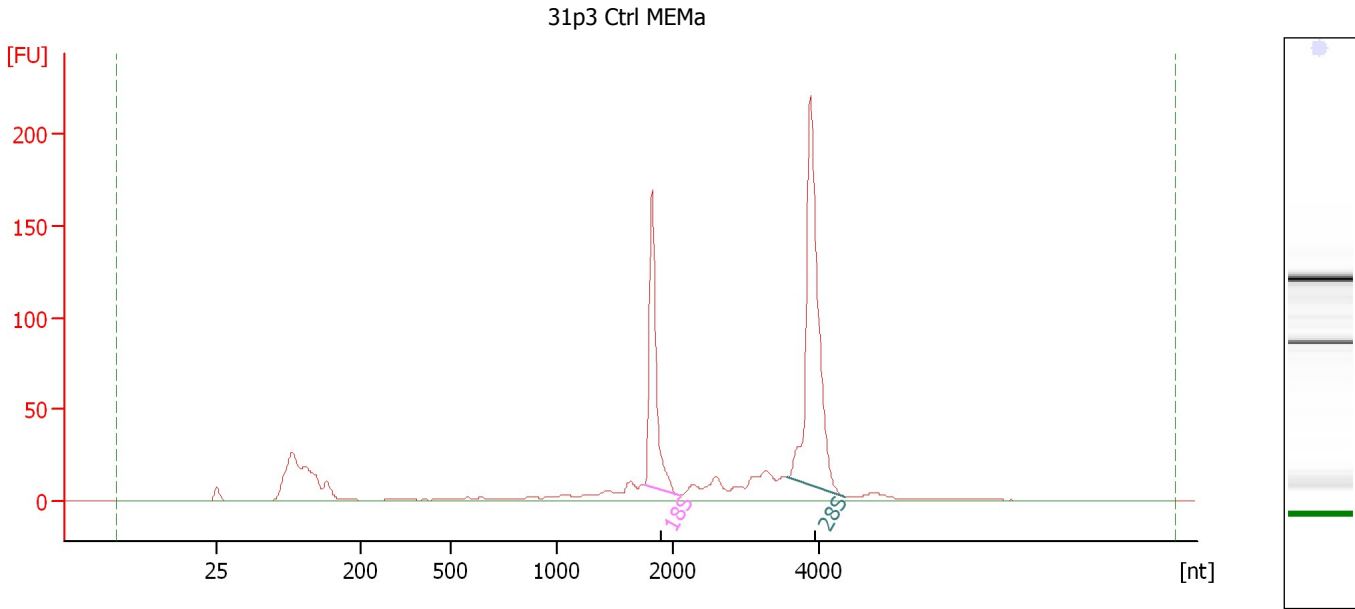
Fragment table for sample 8 : 50313p4 5ml 10uM

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,763	2,106	130.7	20.2
28S	3,394	4,408	254.5	39.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
Modified: 10/4/2013 10:33:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 31p3 Ctrl MEMa

RNA Area: 796.4 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 667 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.50

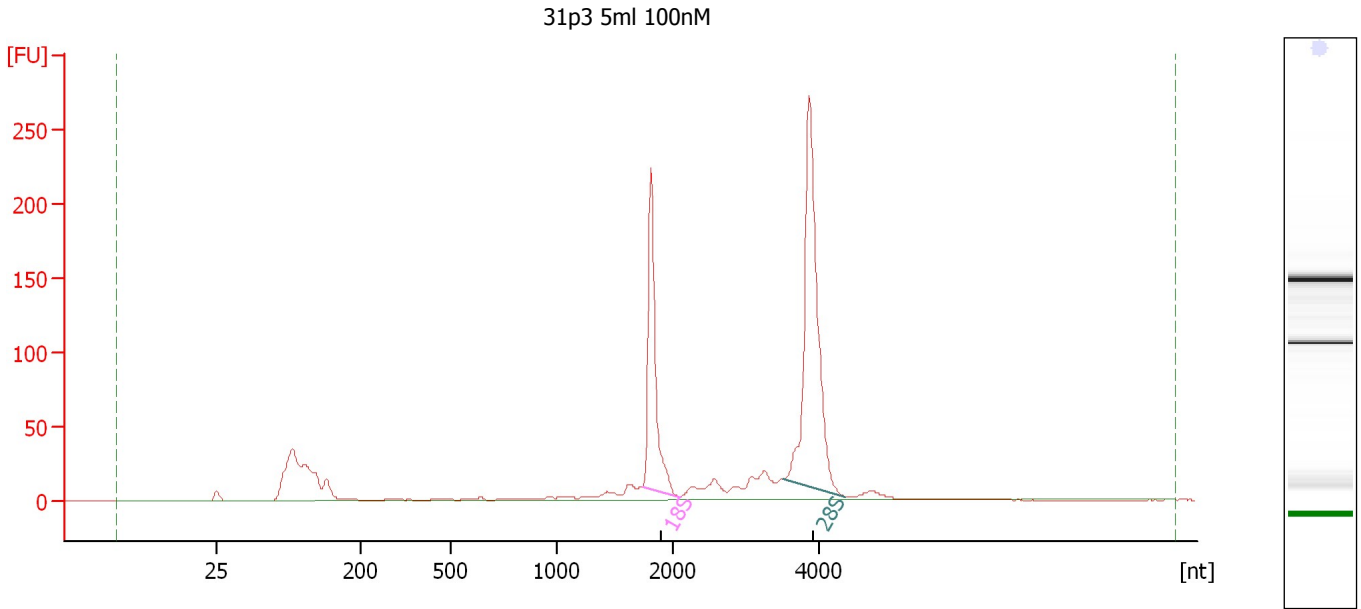
Fragment table for sample 9 : 31p3 Ctrl MEMa

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,761	2,075	143.0	18.0
28S	3,555	4,338	266.3	33.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
Modified: 10/4/2013 10:33:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 31p3 5ml 100nM

RNA Area: 997.6 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 836 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.70

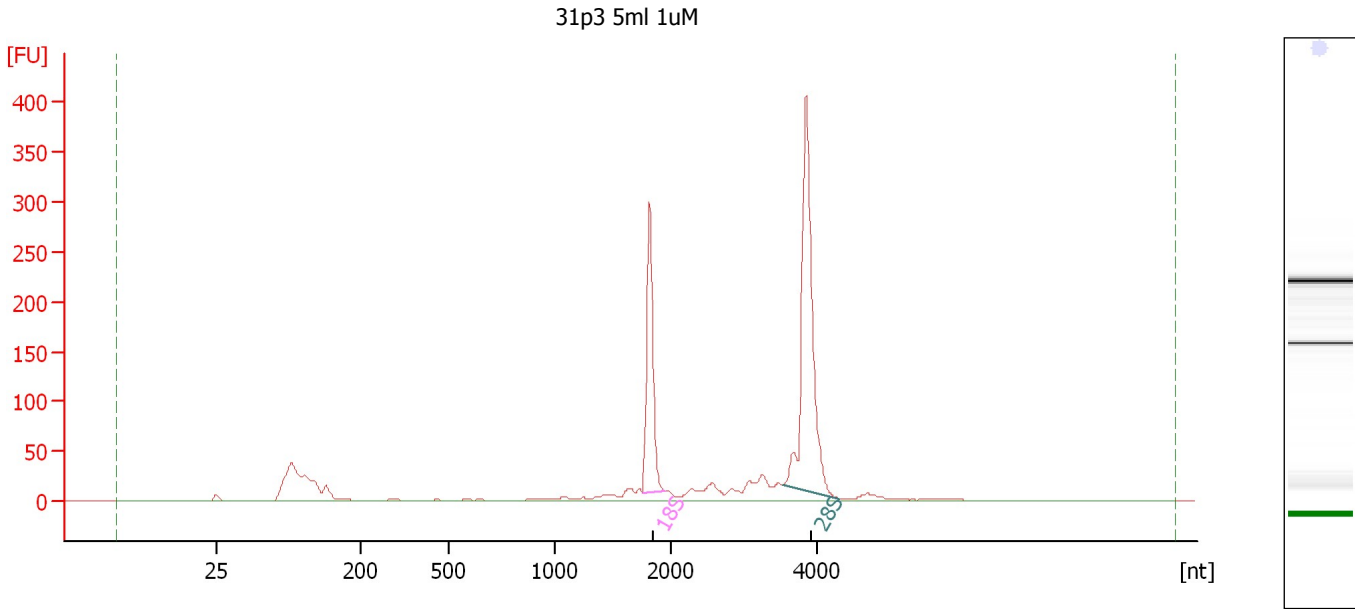
Fragment table for sample 10 : 31p3 5ml 100nM

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,752	2,075	197.5	19.8
28S	3,511	4,338	354.4	35.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
 Modified: 10/4/2013 10:33:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 31p3 5ml 1uM

RNA Area: 1,147.0 RNA Integrity Number (RIN): 9.8 (B.02.08)
 RNA Concentration: 961 ng/μl Result Flagging Color:
 rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.80

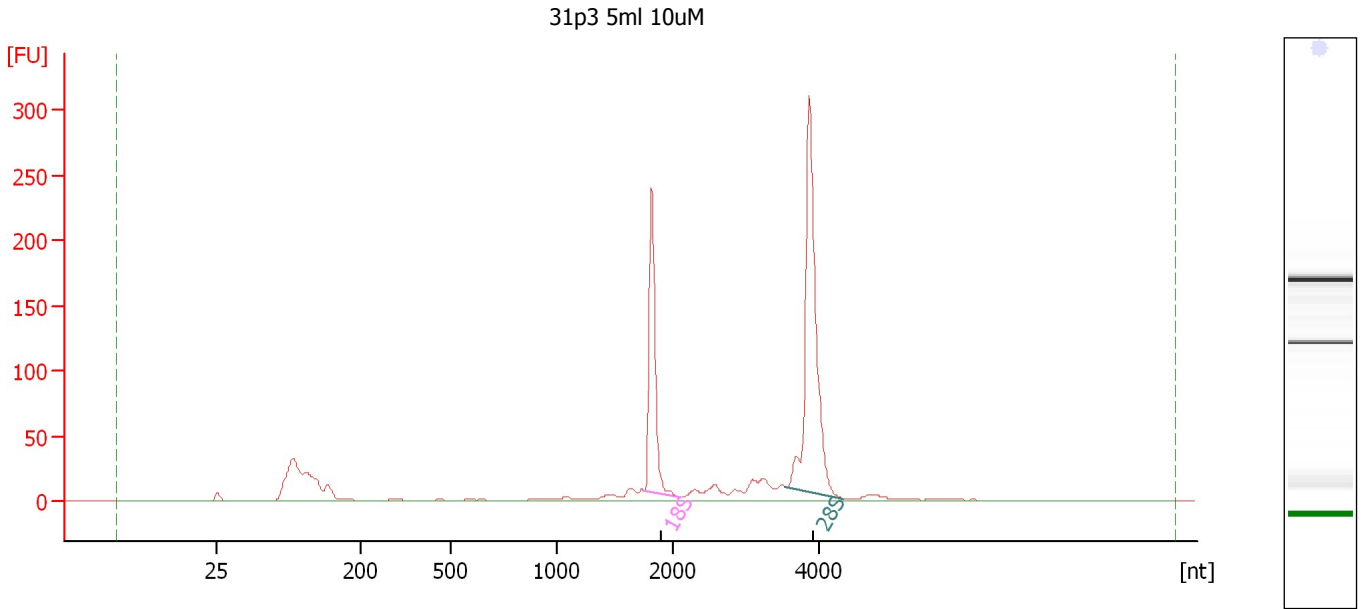
Fragment table for sample 11 : 31p3 5ml 1uM

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,760	1,945	224.1	19.5
28S	3,542	4,298	428.9	37.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
Modified: 10/4/2013 10:33:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 31p3 5ml 10uM

RNA Area: 890.3 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 746 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.90

Fragment table for sample 12 : 31p3 5ml 10uM

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,761	2,089	184.2	20.7
28S	3,540	4,324	334.0	37.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-04\2013-10-04_001.xad

Created: 10/4/2013 9:57:49 AM
Modified: 10/4/2013 10:33:24 AM

Gel Image

