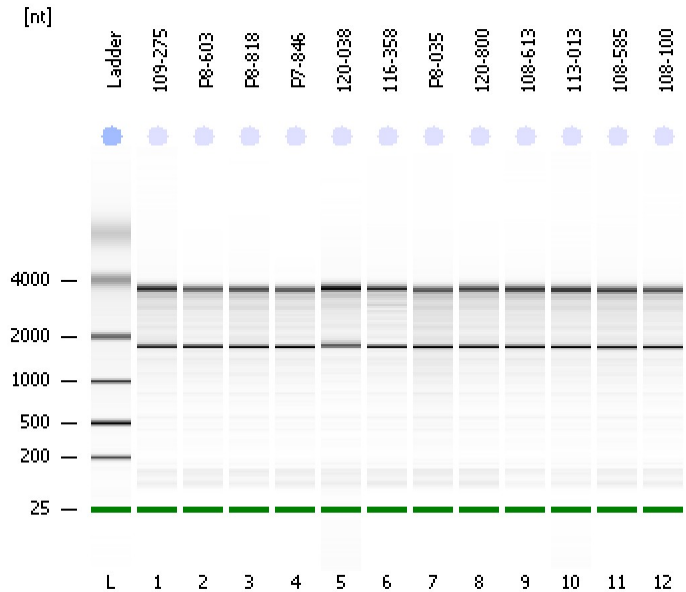


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
Modified: 9/3/2013 11:48:55 AM

Electrophoresis File Run Summary



Instrument Information:

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

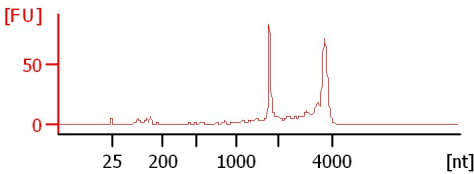
Assay Information:

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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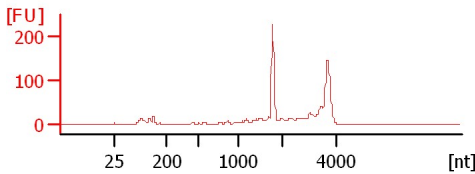
Chip Information:

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

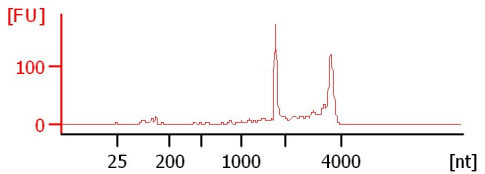
109-275
RIN: 8.20



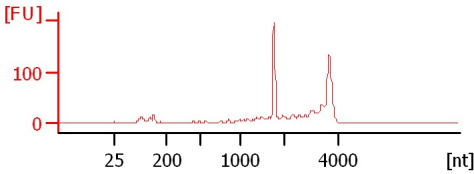
P8-603
RIN: 7.70



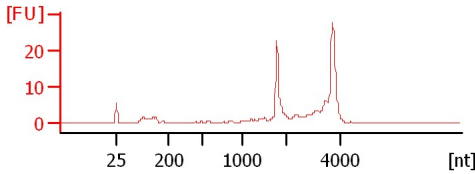
P8-818
RIN: 7.80



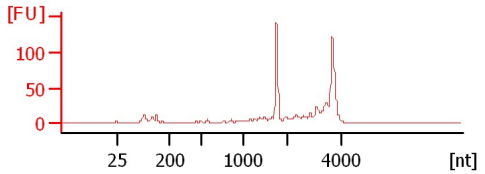
P7-846
RIN: 7.80



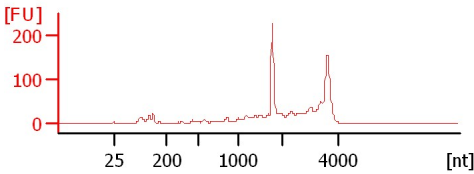
120-038
RIN: 9



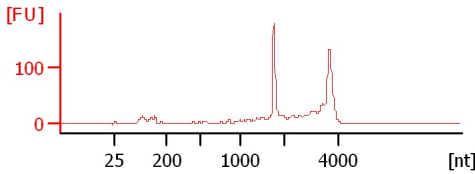
116-358
RIN: 8



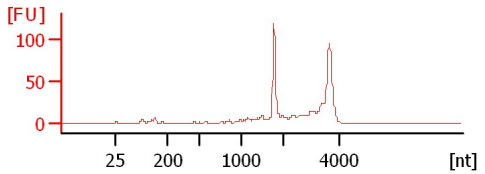
P8-035
RIN: 7.10



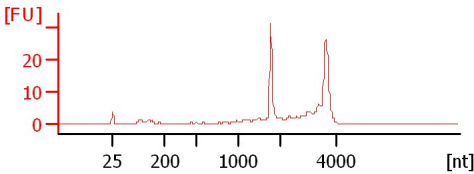
120-800
RIN: 7.90



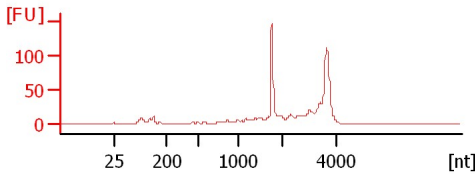
108-613
RIN: 8



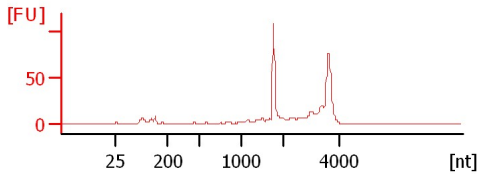
113-013
RIN: 8.40



108-585
RIN: 7.80



108-100
RIN: 8.10



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
 Modified: 9/3/2013 11:48:55 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
109-275		✓	RIN: 8.20	
P8-603		✓	RIN: 7.70	
P8-818		✓	RIN: 7.80	
P7-846		✓	RIN: 7.80	
120-038		✓	RIN:9	
116-358		✓	RIN:8	
P8-035		✓	RIN: 7.10	
120-800		✓	RIN: 7.90	
108-613		✓	RIN:8	
113-013		✓	RIN: 8.40	
108-585		✓	RIN: 7.80	
108-100		✓	RIN: 8.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
Modified: 9/3/2013 11:48:55 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ μ 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

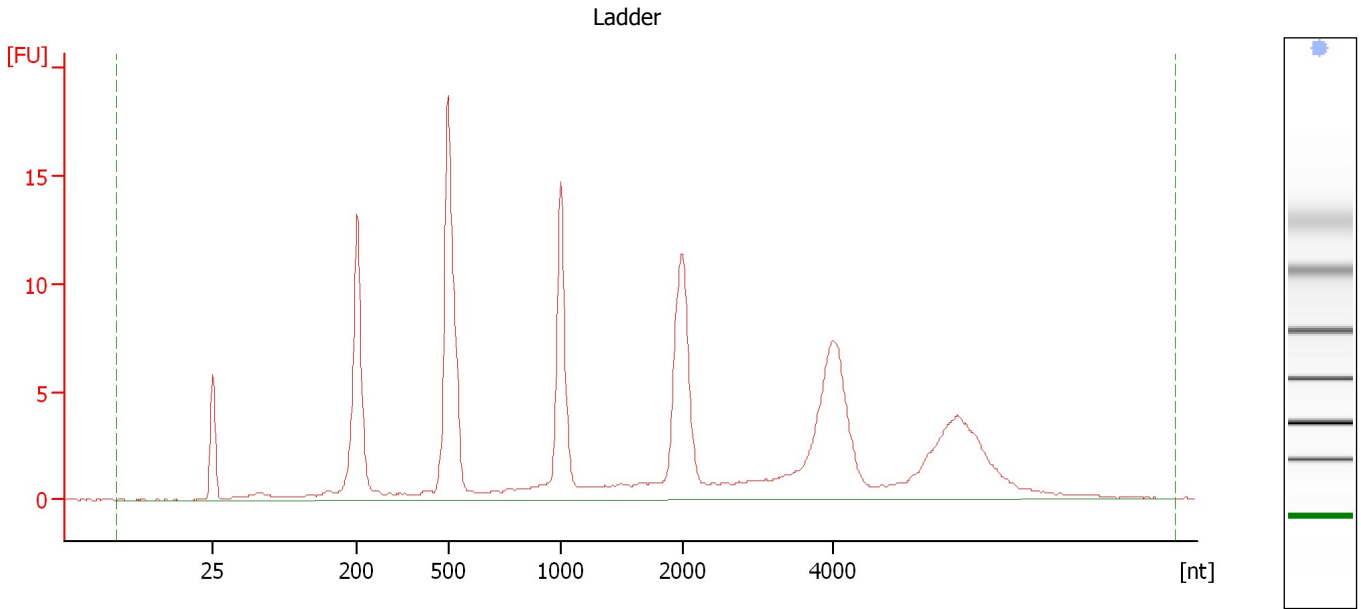
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
Modified: 9/3/2013 11:48:55 AM

Electropherogram Summary



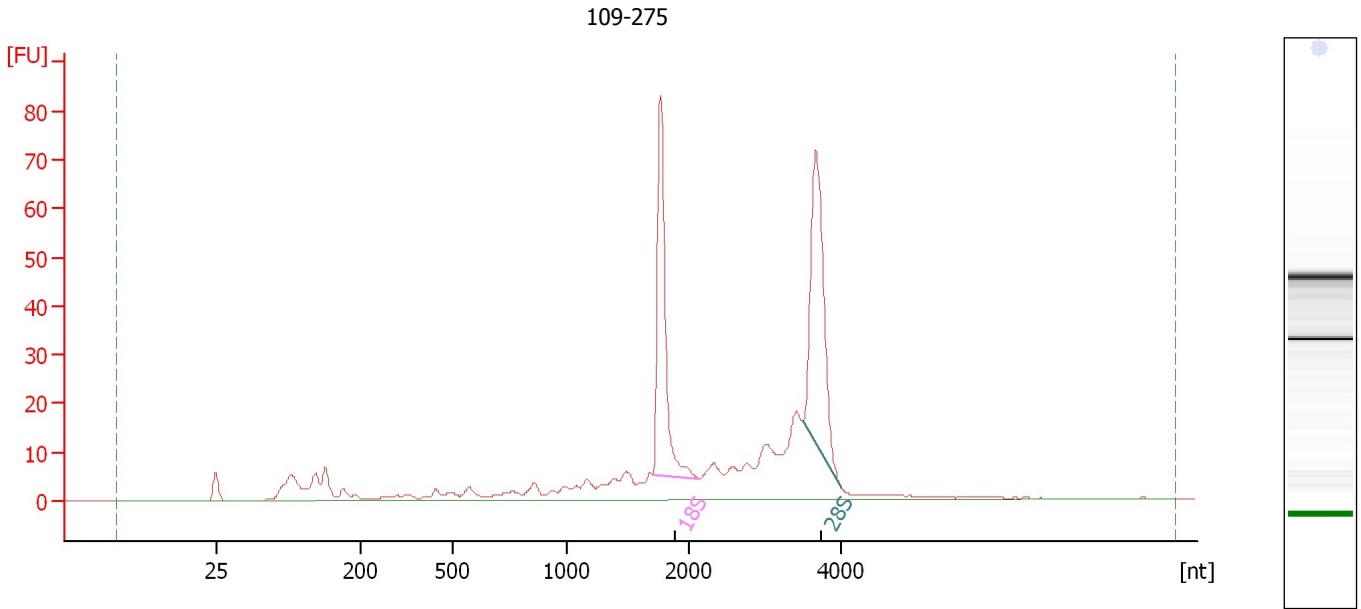
Overall Results for Ladder

RNA Area:	157.7	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
Modified: 9/3/2013 11:48:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 109-275

RNA Area:	403.4	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	384 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 8.20

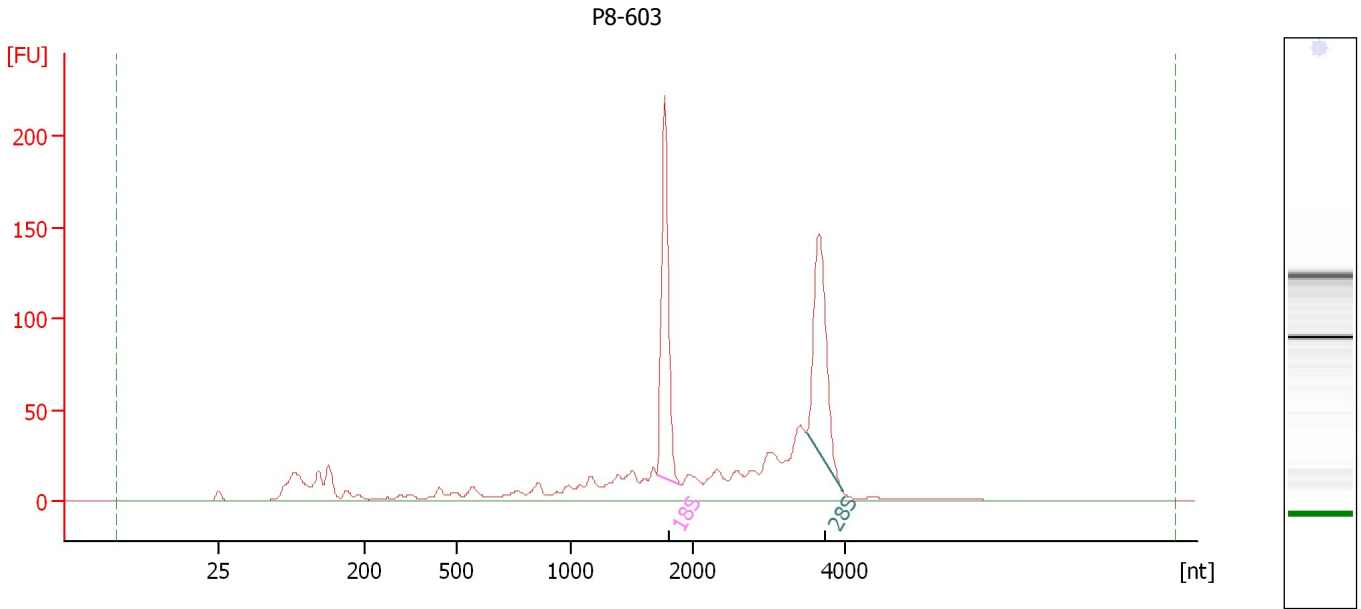
Fragment table for sample 1 : 109-275

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,712	2,143	70.9	17.6
28S	3,501	3,991	81.0	20.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
Modified: 9/3/2013 11:48:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : P8-603

RNA Area:	975.1	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	928 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 7.70

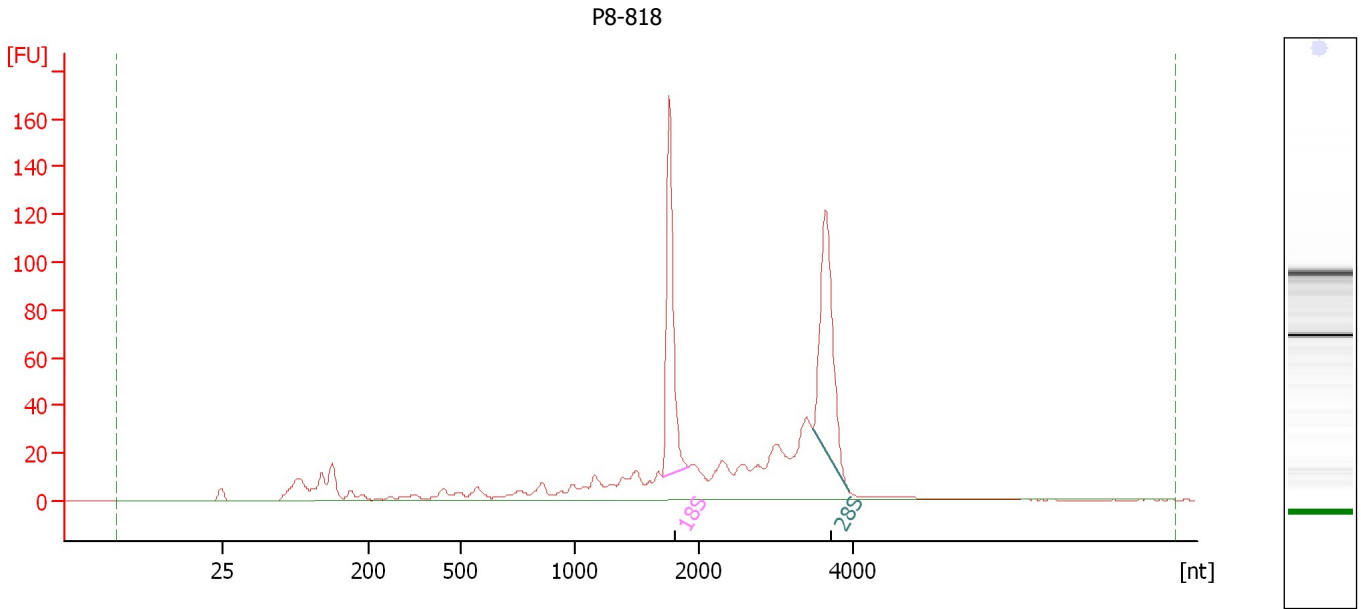
Fragment table for sample 2 : P8-603

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	1,898	172.5	17.7
28S	3,483	3,957	155.4	15.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
Modified: 9/3/2013 11:48:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : P8-818

RNA Area:	769.4	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	732 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.80

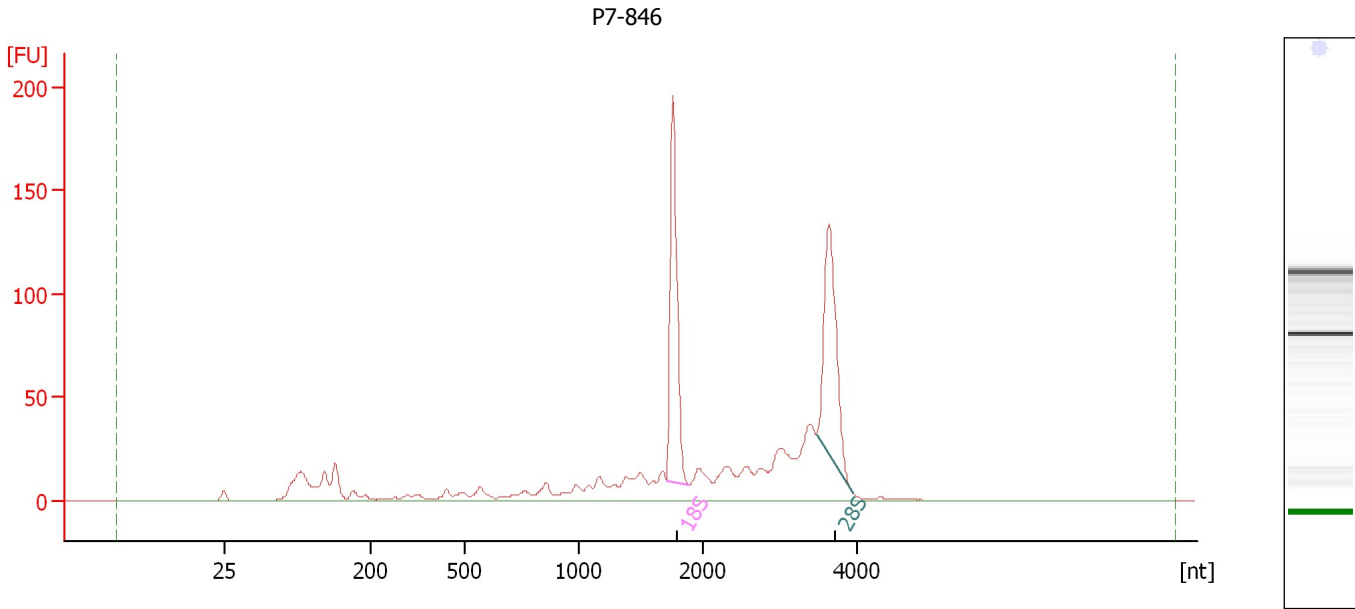
Fragment table for sample 3 : P8-818

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,701	1,918	128.5	16.7
28S	3,477	3,948	129.0	16.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
Modified: 9/3/2013 11:48:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : P7-846

RNA Area: 865.4 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 823 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 7.80

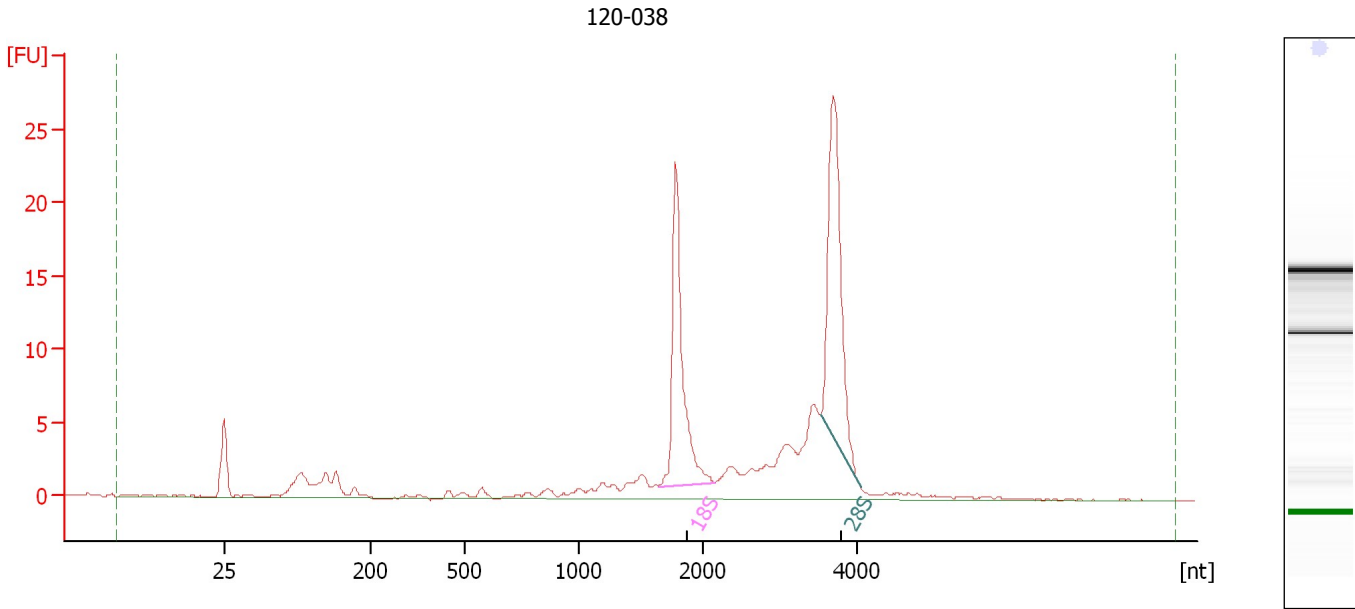
Fragment table for sample 4 : P7-846

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,703	1,894	148.9	17.2
28S	3,474	3,929	141.2	16.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
Modified: 9/3/2013 11:48:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 120-038

RNA Area: 129.9 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 124 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN:9

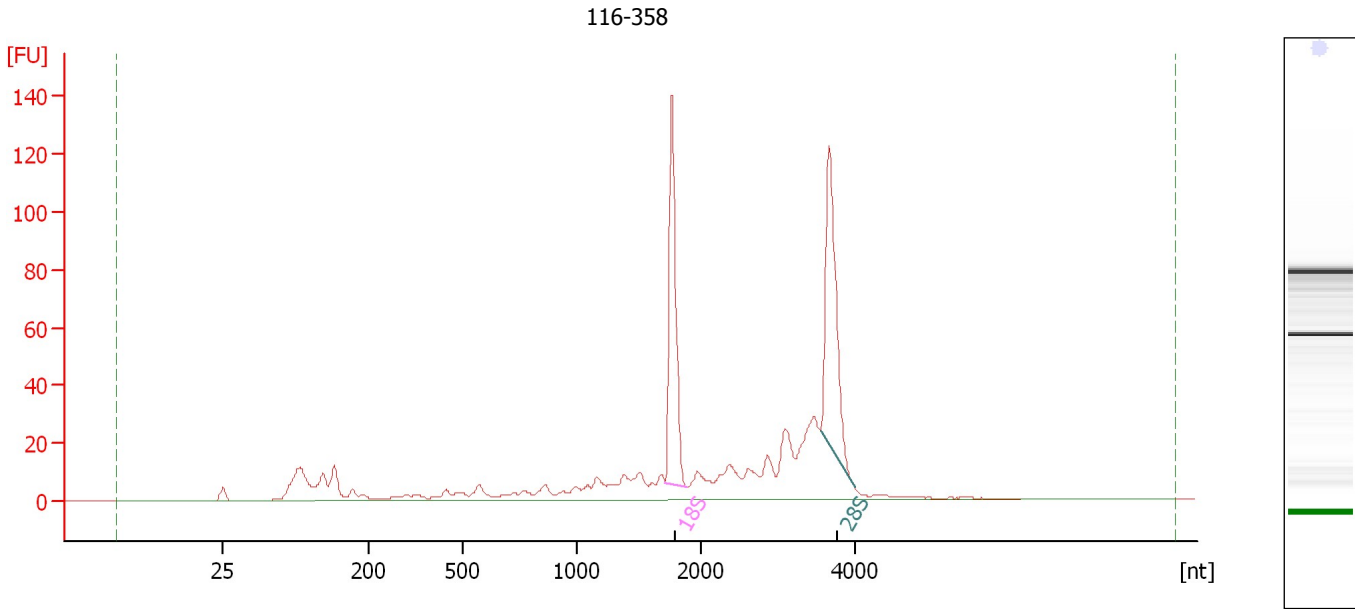
Fragment table for sample 5 : 120-038

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	2,149	24.8	19.1
28S	3,515	4,039	30.2	23.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
 Modified: 9/3/2013 11:48:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 116-358

RNA Area:	627.5	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	597 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN:8

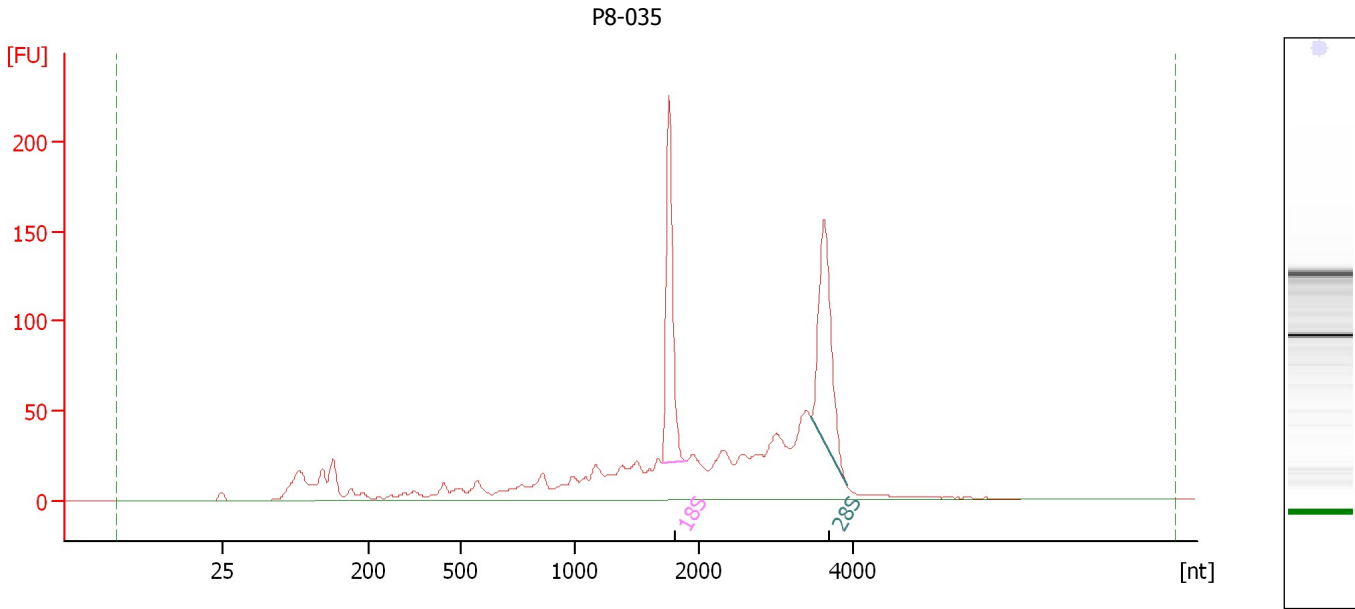
Fragment table for sample 6 : 116-358

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,711	1,885	105.8	16.9
28S	3,545	3,987	111.7	17.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
 Modified: 9/3/2013 11:48:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : P8-035

RNA Area:	1,234.4	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	1,174 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.10

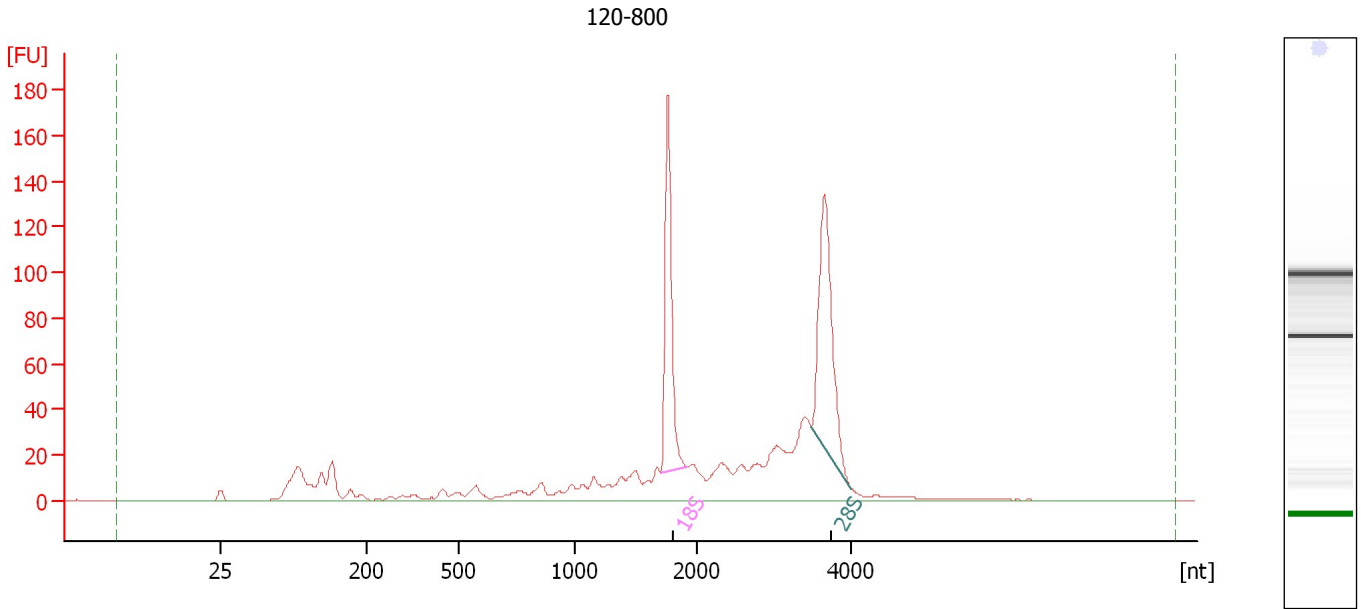
Fragment table for sample 7 : P8-035

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,701	1,901	164.0	13.3
28S	3,464	3,921	157.0	12.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
Modified: 9/3/2013 11:48:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 120-800

RNA Area:	855.4	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	814 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.90

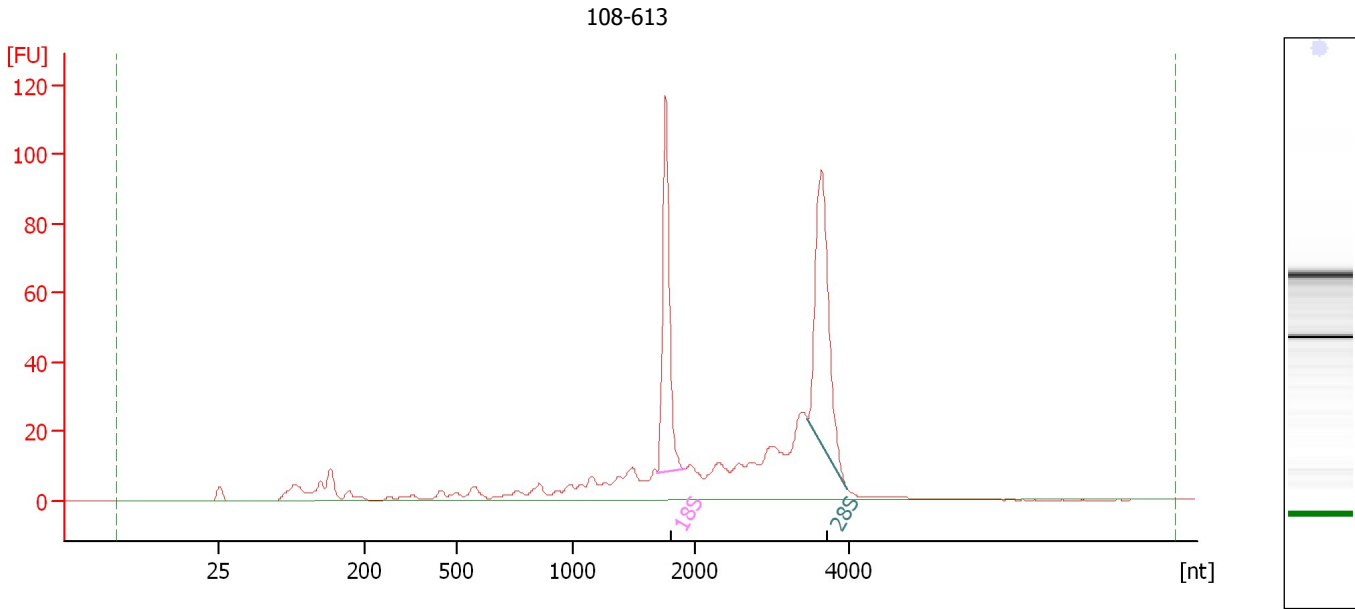
Fragment table for sample 8 : 120-800

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,708	1,926	133.9	15.7
28S	3,493	4,007	148.7	17.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
Modified: 9/3/2013 11:48:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 108-613

RNA Area: 543.4 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 517 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN:8

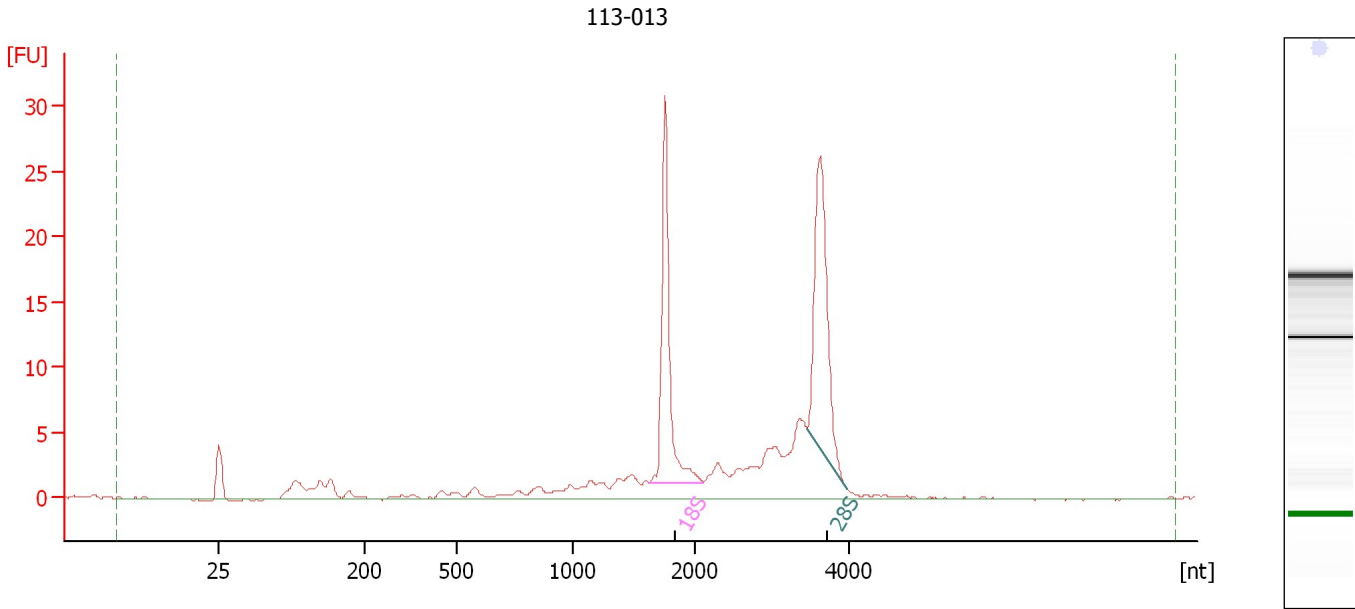
Fragment table for sample 9 : 108-613

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,698	1,917	89.4	16.5
28S	3,467	3,996	107.0	19.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
Modified: 9/3/2013 11:48:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 113-013

RNA Area: 129.4 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 123 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 8.40

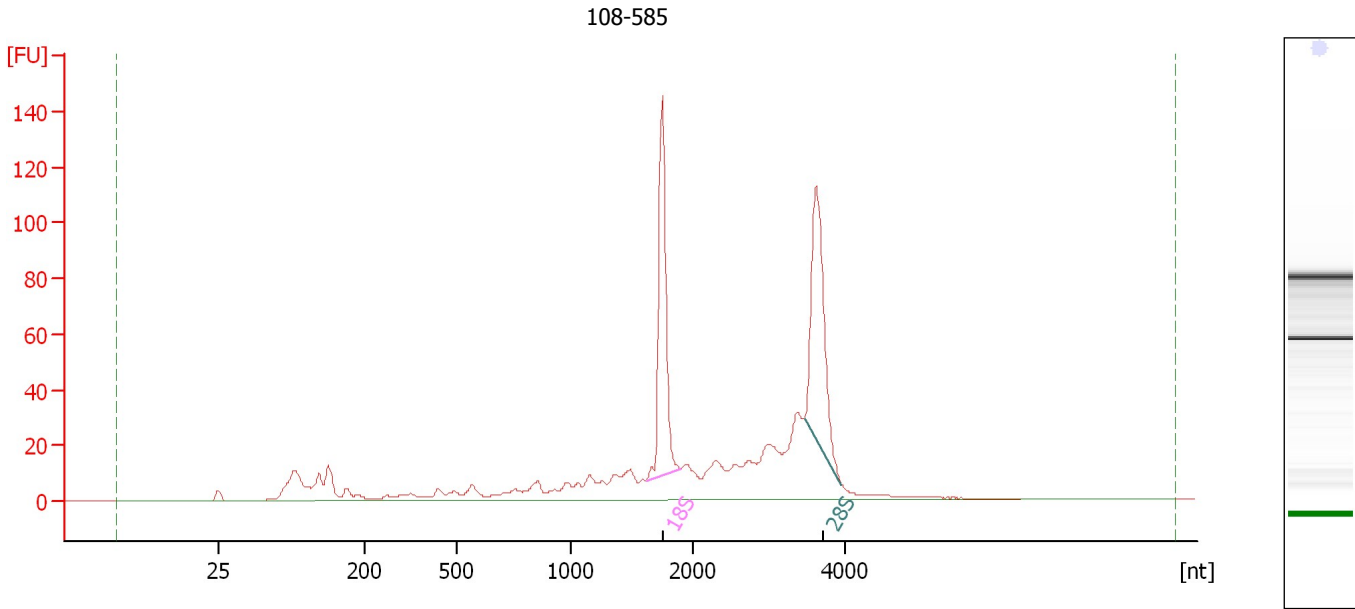
Fragment table for sample 10 : 113-013

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	2,118	26.3	20.4
28S	3,467	3,982	28.7	22.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
Modified: 9/3/2013 11:48:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 108-585

RNA Area:	717.7	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	683 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.80

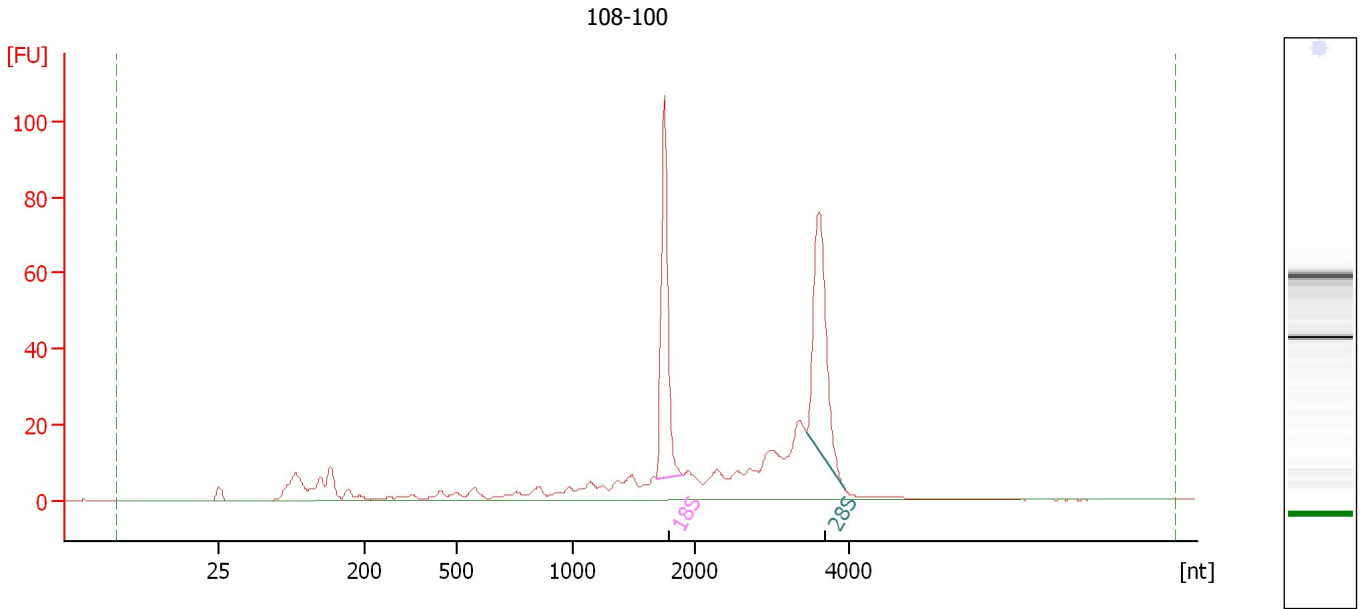
Fragment table for sample 11 : 108-585

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	1,898	111.2	15.5
28S	3,455	3,943	119.3	16.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-03\2013-09-03_002.xad

Created: 9/3/2013 11:25:02 AM
Modified: 9/3/2013 11:48:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 108-100

RNA Area:	439.2	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	418 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 8.10

Fragment table for sample 12 : 108-100

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,689	1,908	78.3	17.8
28S	3,453	3,954	81.6	18.6