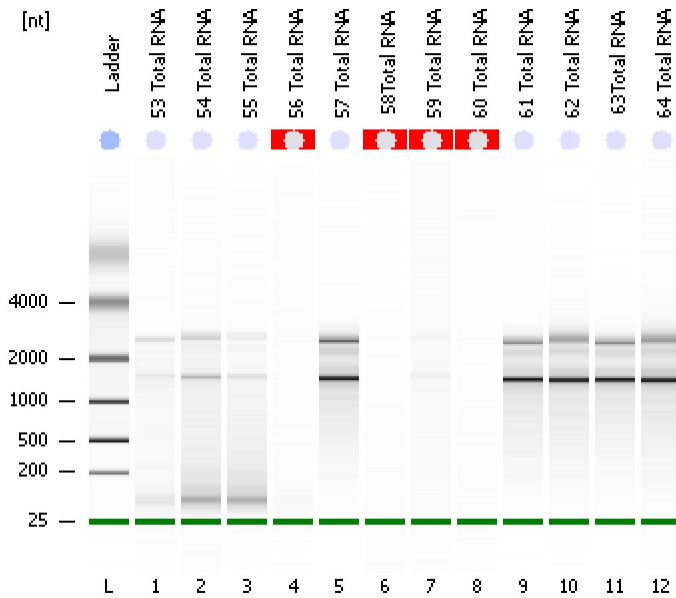


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 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\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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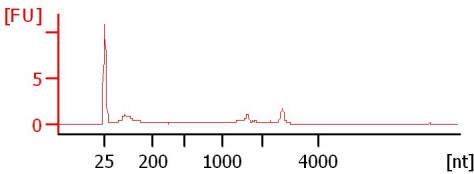
Chip Information:

Chip Lot #:

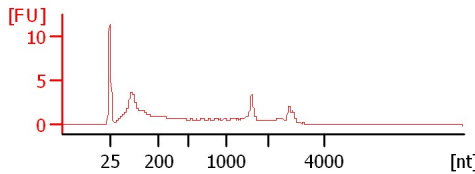
Reagent Kit Lot #:

Chip Comments:

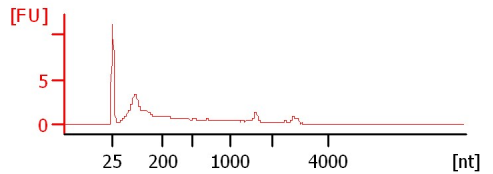
53 Total RNA
RIN: 4.80



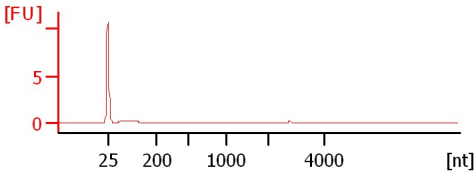
54 Total RNA
RIN: 6.30



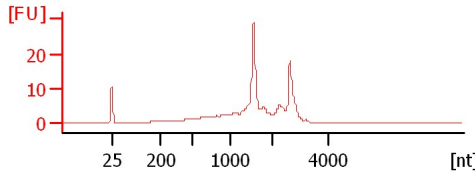
55 Total RNA
RIN: 3.30



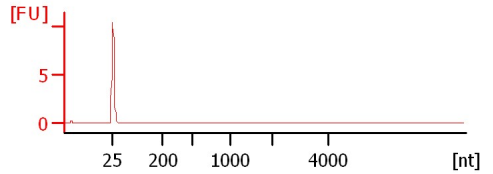
56 Total RNA
RIN N/A



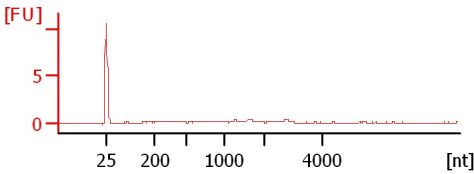
57 Total RNA
RIN: 7.40



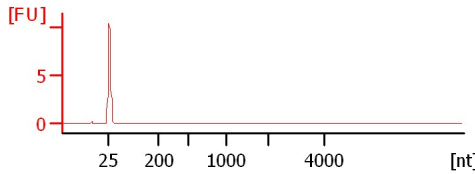
58 Total RNA
RIN N/A



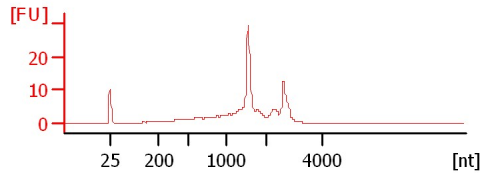
59 Total RNA
RIN N/A



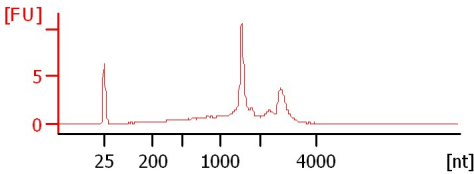
60 Total RNA
RIN N/A



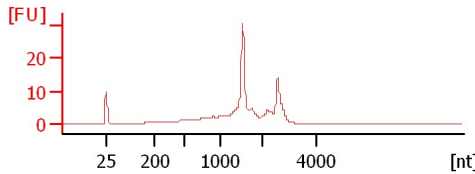
61 Total RNA
RIN: 7.30



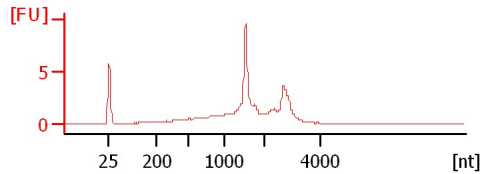
62 Total RNA
RIN: 7.40



63 Total RNA
RIN: 7.40



64 Total RNA
RIN: 7.40



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
 Modified: 8/9/2013 1:34:15 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
53 Total RNA		✓	RIN: 4.80	
54 Total RNA		✓	RIN: 6.30	
55 Total RNA		✓	RIN: 3.30	
56 Total RNA		✓	RIN N/A	
57 Total RNA		✓	RIN: 7.40	
58 Total RNA		✓	RIN N/A	
59 Total RNA		✓	RIN N/A	
60 Total RNA		✓	RIN N/A	
61 Total RNA		✓	RIN: 7.30	
62 Total RNA		✓	RIN: 7.40	
63 Total RNA		✓	RIN: 7.40	
64 Total RNA		✓	RIN: 7.40	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

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

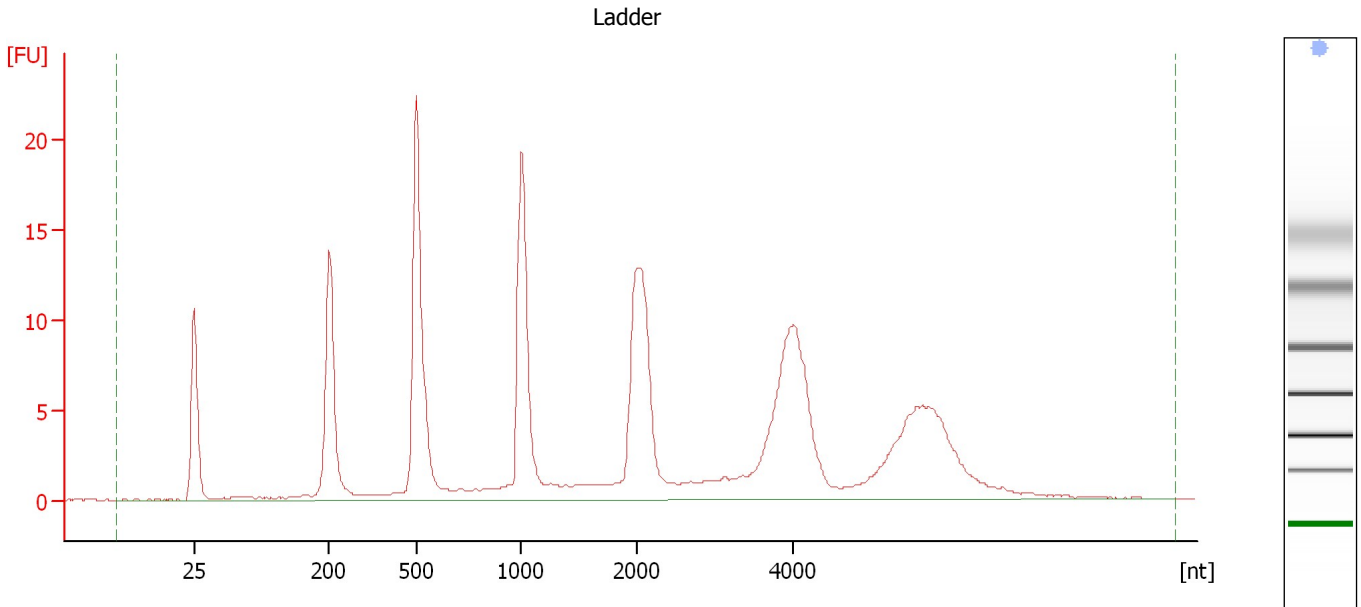
Ladder

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\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

Electropherogram Summary



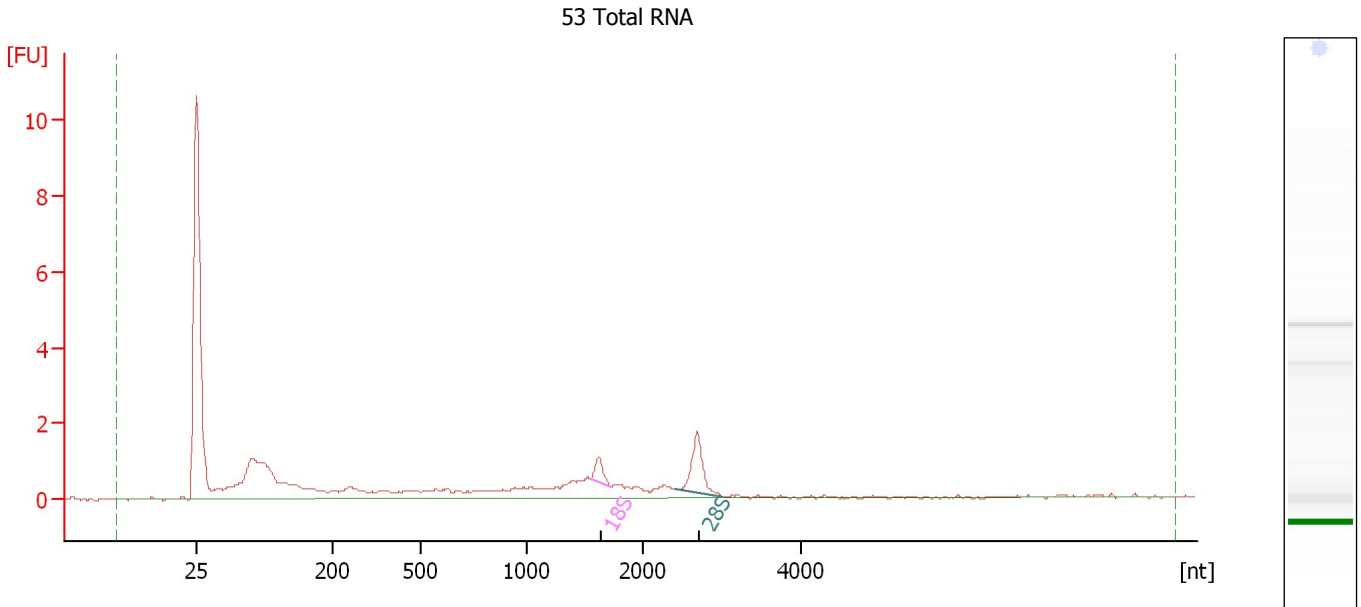
Overall Results for Ladder

RNA Area:	211.4	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\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 53 Total RNA

RNA Area: 22.9 RNA Integrity Number (RIN): 4.8 (B.02.08)
RNA Concentration: 16 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 3.4 Result Flagging Label: RIN: 4.80

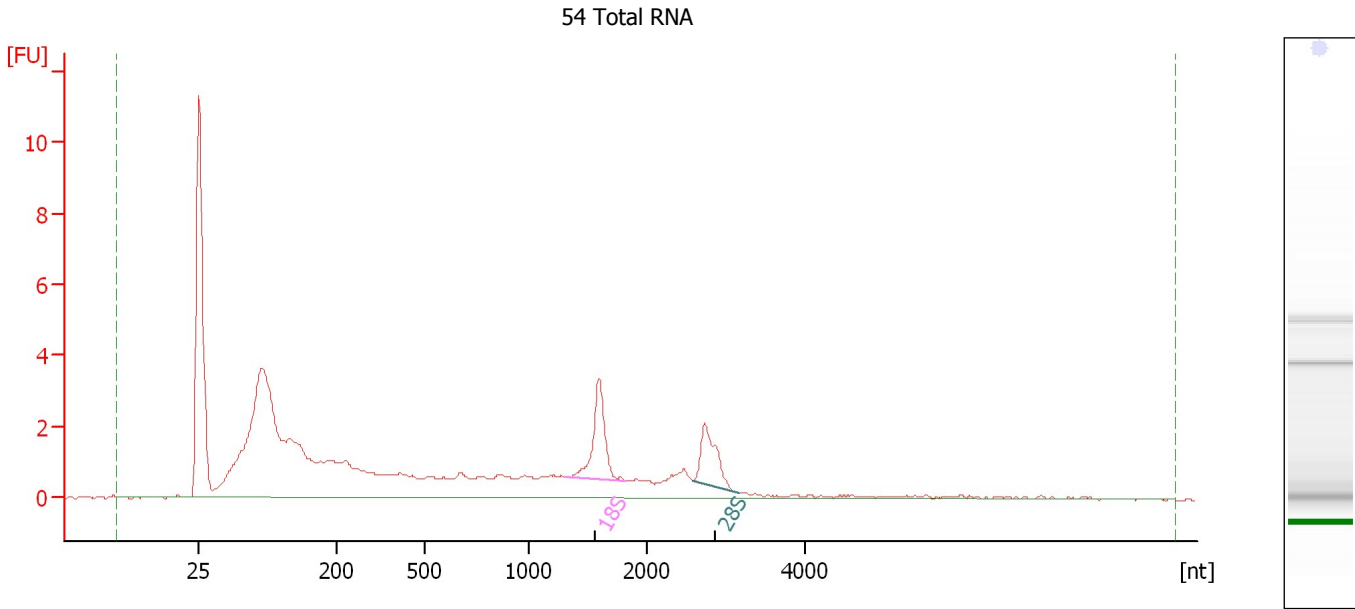
Fragment table for sample 1 : 53 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,552	1,726	0.6	2.7
28S	2,423	3,031	2.1	9.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 54 Total RNA

RNA Area: 69.8 RNA Integrity Number (RIN): 6.3 (B.02.08)
RNA Concentration: 50 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN: 6.30

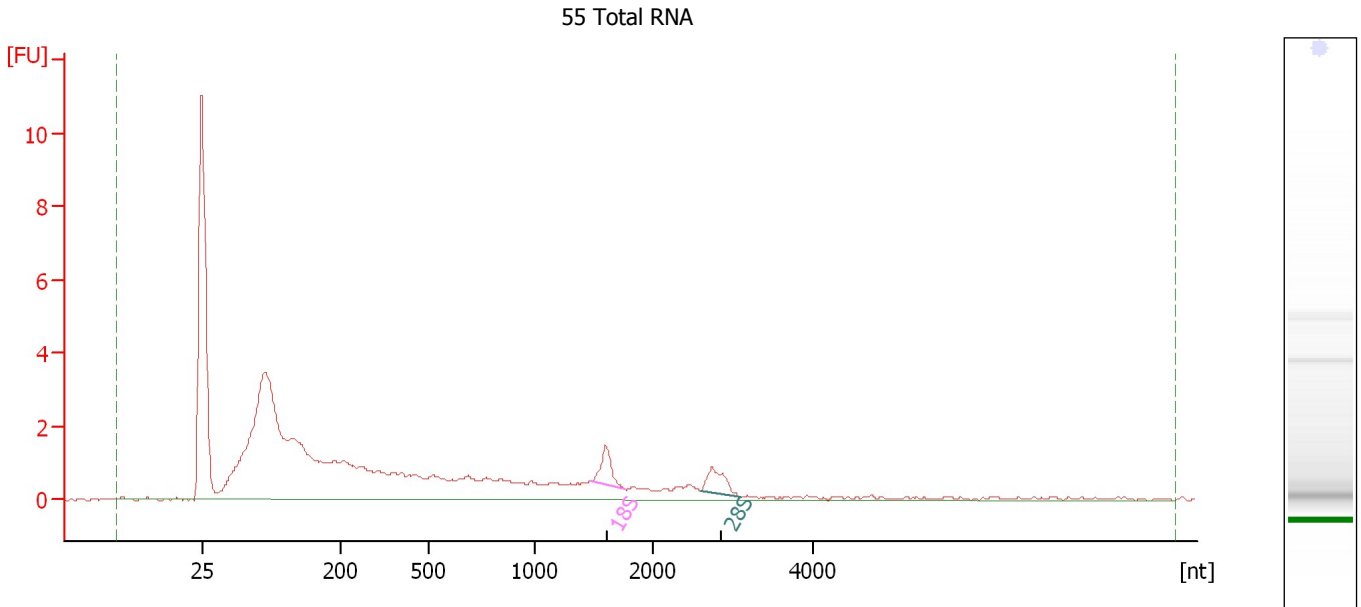
Fragment table for sample 2 : 54 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,308	1,821	4.2	6.0
28S	2,585	3,177	3.0	4.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 55 Total RNA

RNA Area: 60.2 RNA Integrity Number (RIN): 3.3 (B.02.08)
RNA Concentration: 43 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 3.30

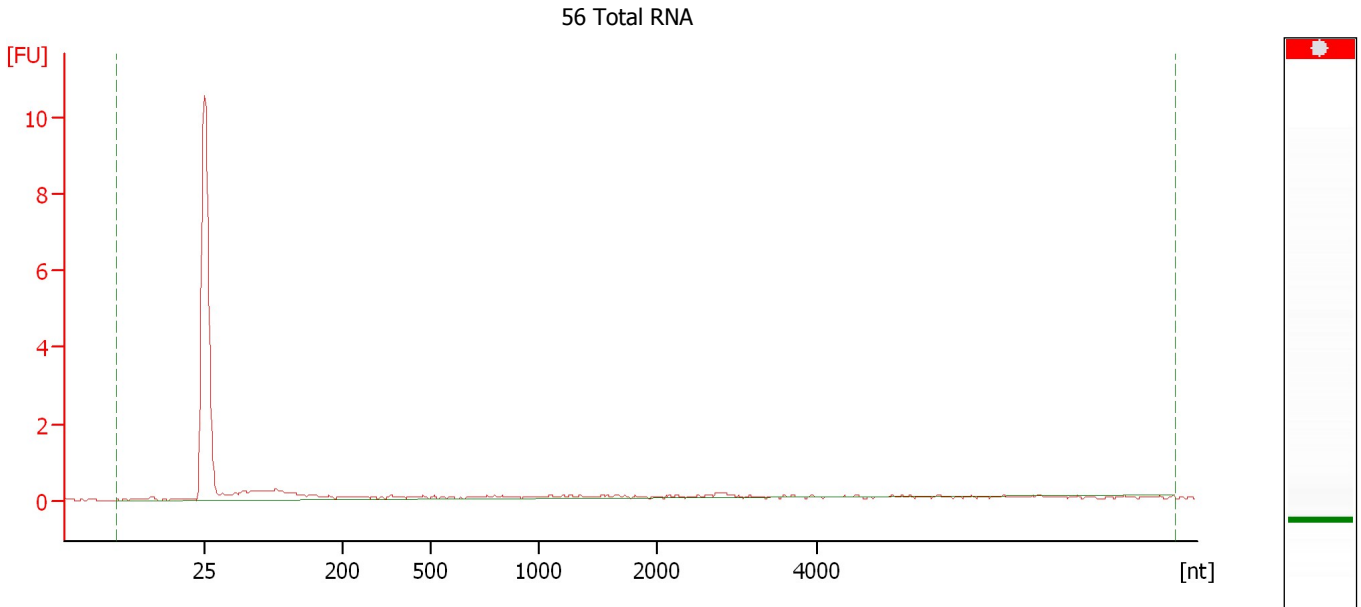
Fragment table for sample 3 : 55 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,479	1,770	1.5	2.4
28S	2,599	3,107	1.3	2.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

Electropherogram Summary Continued ...



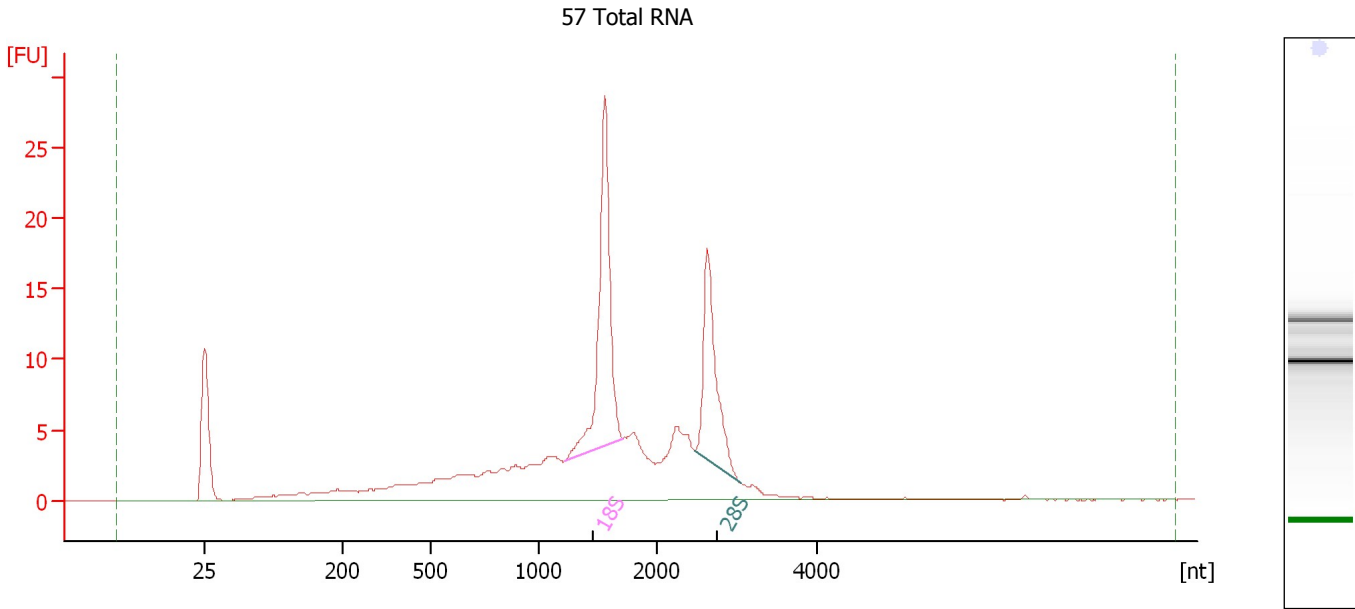
Overall Results for sample 4 : 56 Total RNA

RNA Area:	6.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	4 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 57 Total RNA

RNA Area: 177.3 RNA Integrity Number (RIN): 7.4 (B.02.08)
RNA Concentration: 126 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 7.40

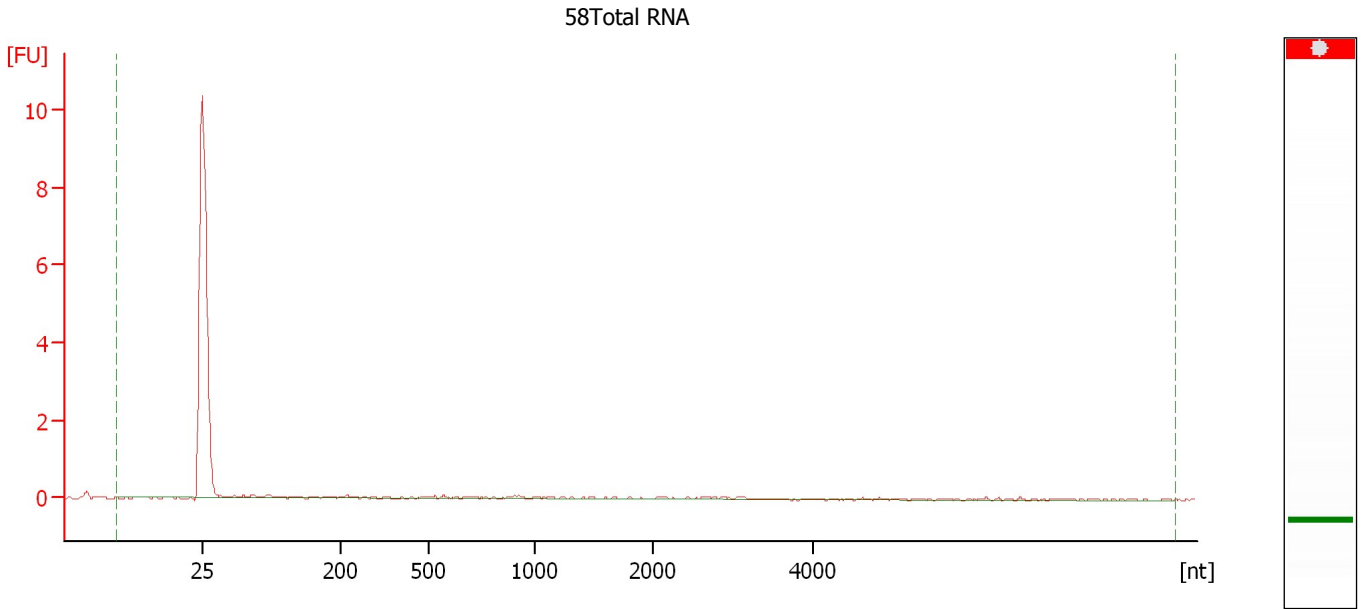
Fragment table for sample 5 : 57 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,220	1,710	34.6	19.5
28S	2,479	3,052	20.7	11.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 58Total RNA

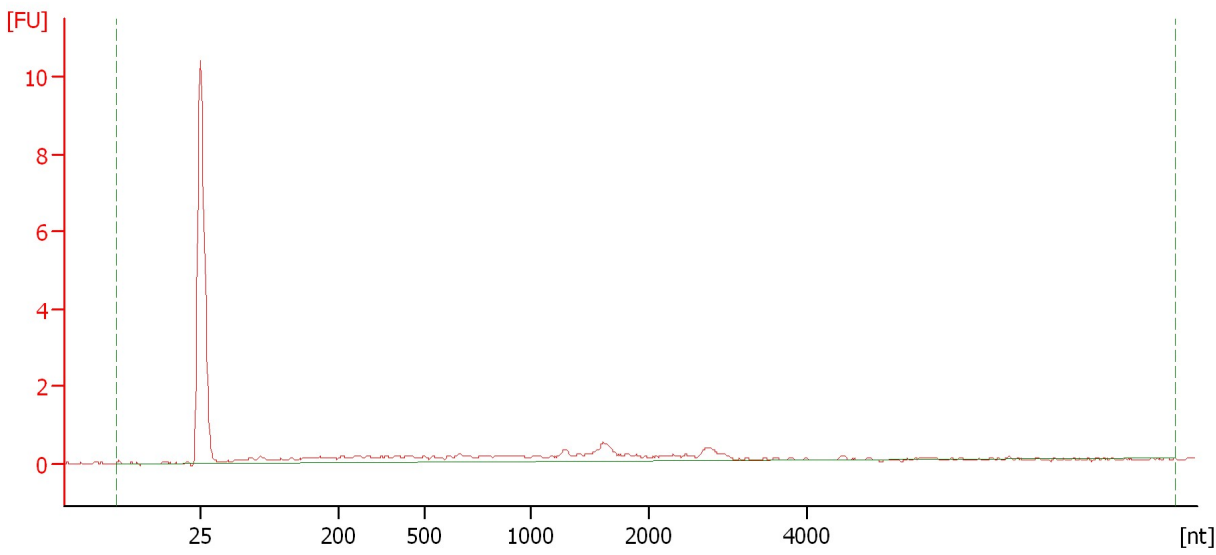
RNA Area:	1.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

Electropherogram Summary Continued ...

59 Total RNA



Overall Results for sample 7 : 59 Total RNA

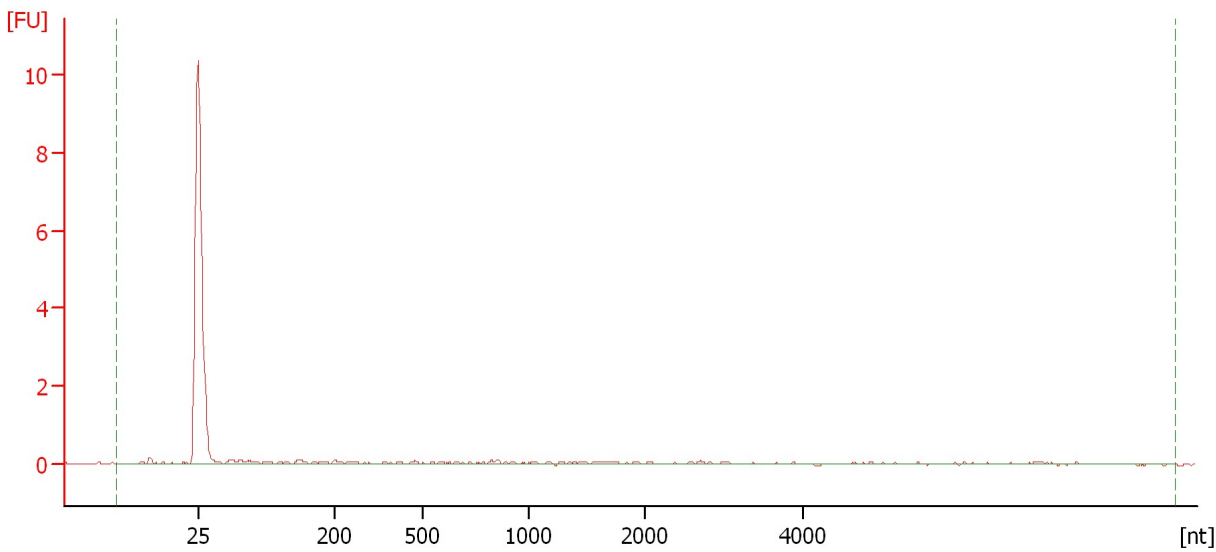
RNA Area:	10.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	7 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

Electropherogram Summary Continued ...

60 Total RNA



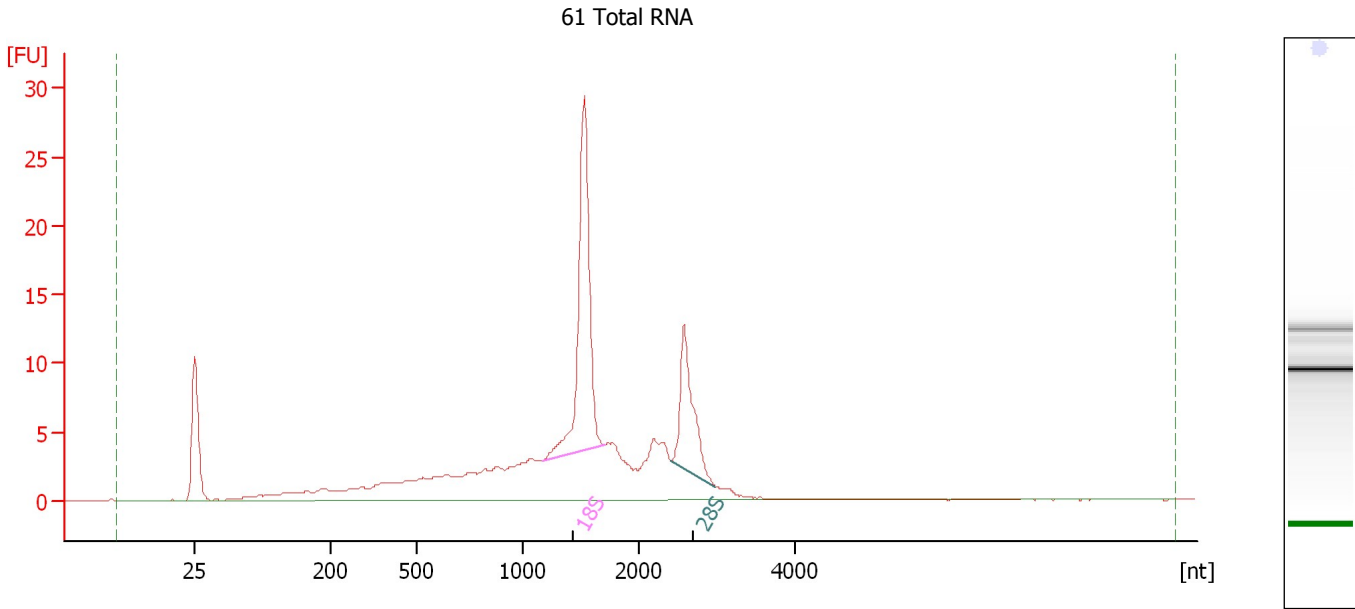
Overall Results for sample 8 : 60 Total RNA

RNA Area:	3.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 61 Total RNA

RNA Area: 166.0 RNA Integrity Number (RIN): 7.3 (B.02.08)
RNA Concentration: 118 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN: 7.30

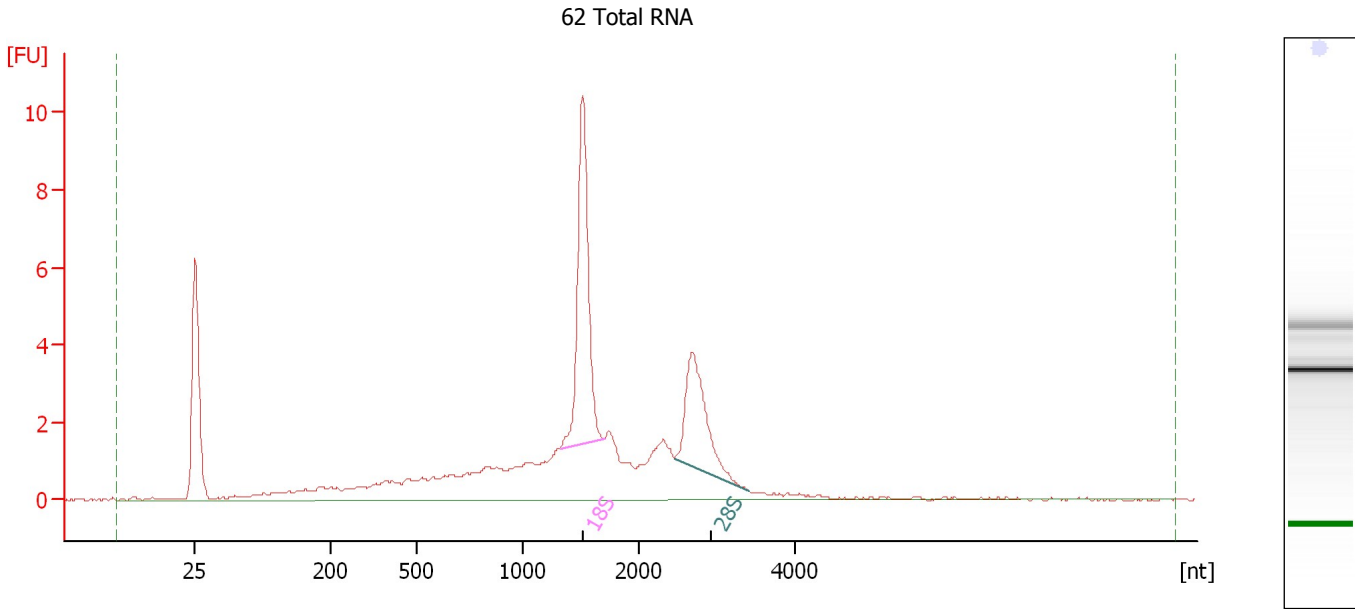
Fragment table for sample 9 : 61 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,178	1,705	35.5	21.4
28S	2,422	2,978	15.5	9.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 62 Total RNA

RNA Area: 65.4 RNA Integrity Number (RIN): 7.4 (B.02.08)
RNA Concentration: 46 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 7.40

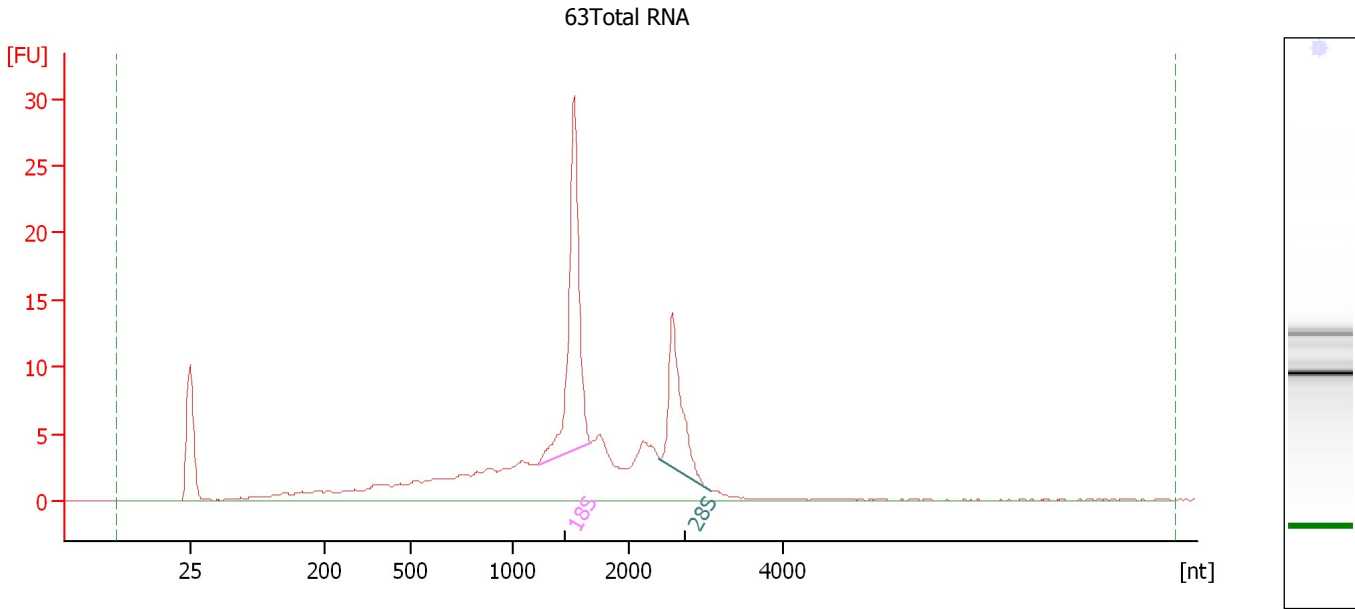
Fragment table for sample 10 : 62 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,326	1,705	12.1	18.5
28S	2,462	3,413	7.0	10.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 63Total RNA

RNA Area: 166.2 RNA Integrity Number (RIN): 7.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 118 ng/μl
rRNA Ratio [28s / 18s]: 0.5
Result Flagging Color:
Result Flagging Label: RIN: 7.40

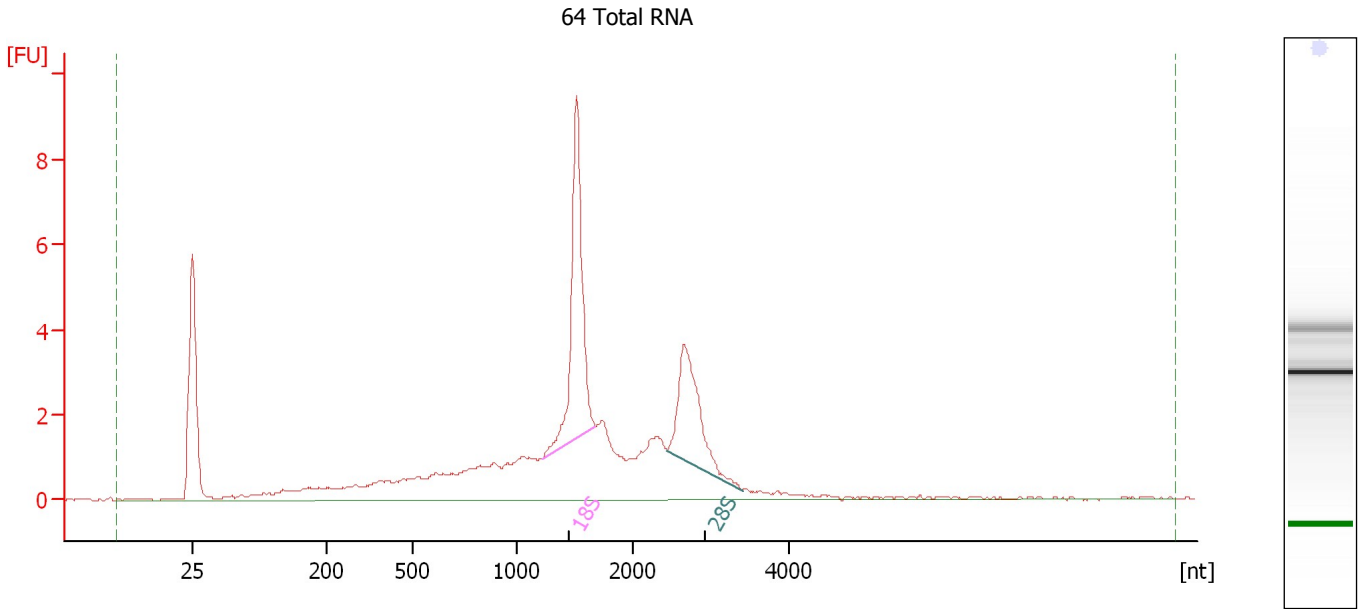
Fragment table for sample 11 : 63Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,211	1,678	36.2	21.8
28S	2,406	3,064	16.9	10.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 64 Total RNA

RNA Area: 63.4 RNA Integrity Number (RIN): 7.4 (B.02.08)
RNA Concentration: 45 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 7.40

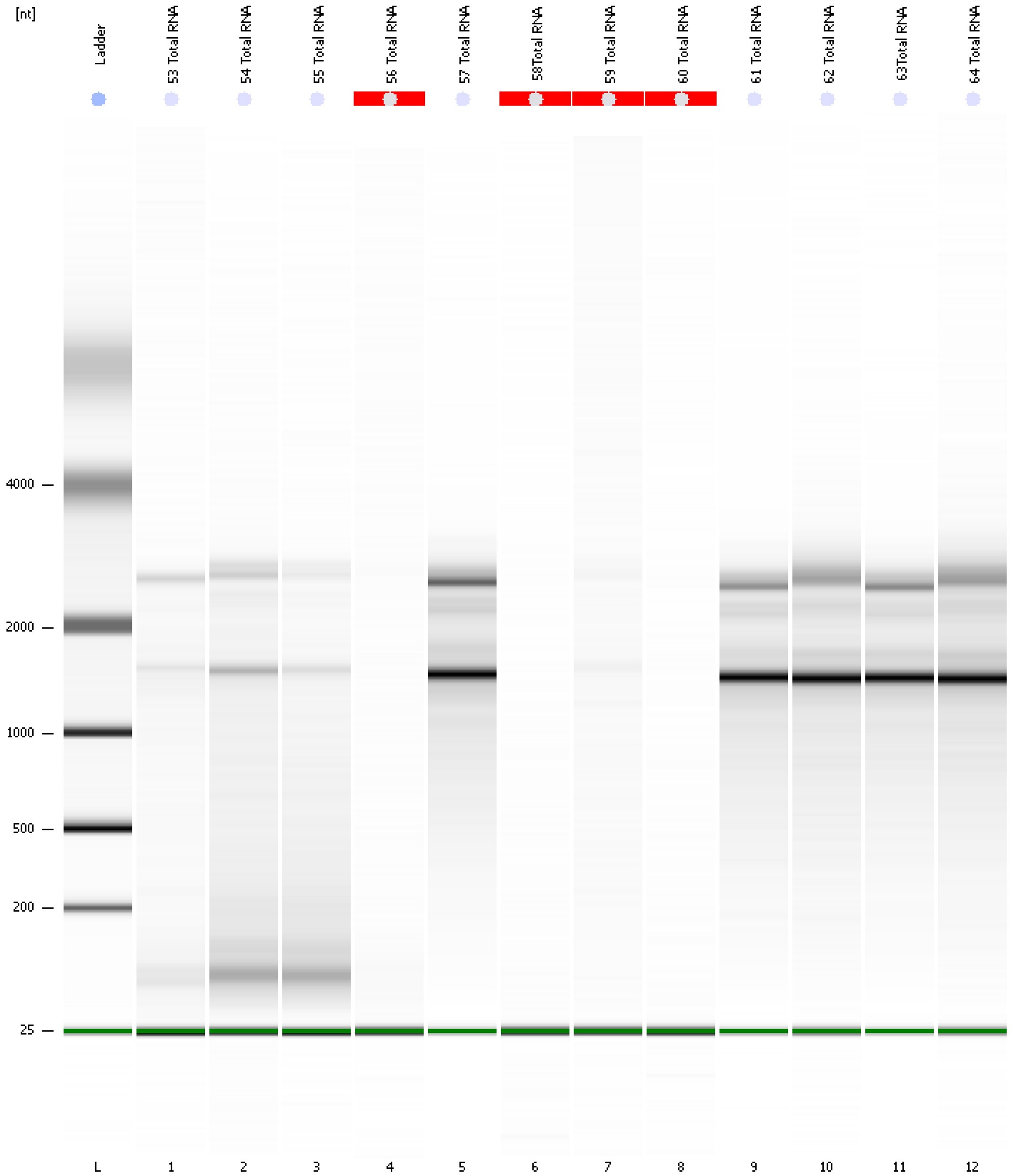
Fragment table for sample 12 : 64 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,226	1,681	11.2	17.7
28S	2,448	3,404	6.6	10.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
Modified: 8/9/2013 1:34:15 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad

Created: 8/9/2013 1:08:55 PM
 Modified: 8/9/2013 1:34:15 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		8/9/2013 1:31:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-08-09\2013-08-09_006.xad)		Instrument	Run		8/9/2013 1:09:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/9/2013 1:09:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/9/2013 1:09:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/9/2013 1:09:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/9/2013 1:09:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/9/2013 1:09:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/9/2013 1:09:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1