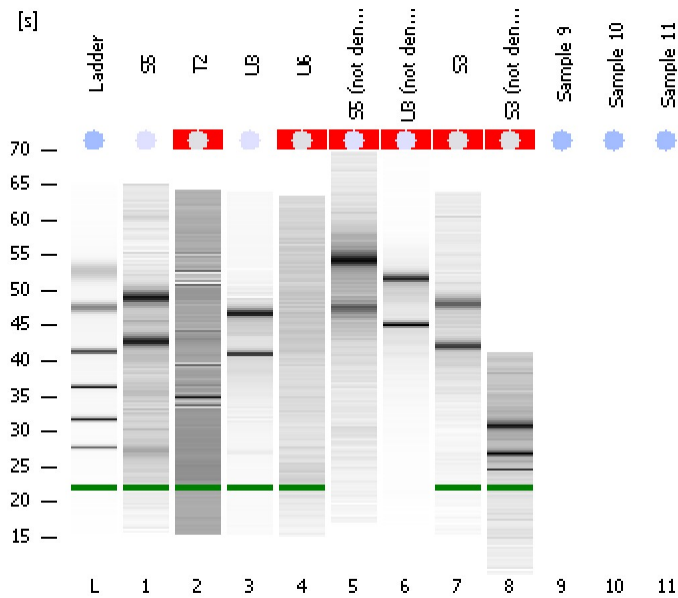


Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad

Created: 1/8/2015 11:07:28 AM
 Modified: 1/8/2015 11:26:07 AM

Electrophoresis File Run Summary



Instrument Information:

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

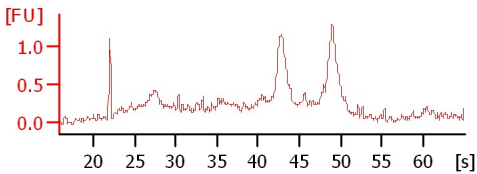
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
 Assay Class: Eukaryote Total RNA Pico
 Version: 2.6
 Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
 © Copyright 2003 - 2009 Agilent Technologies, Inc.

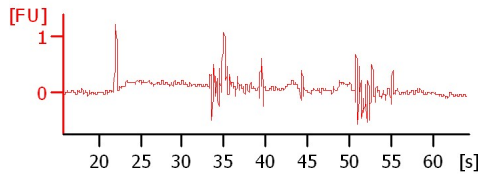
Chip Information:

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

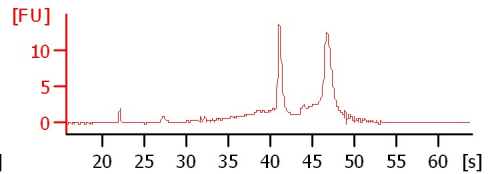
S5
 Total RNA
 RIN: 2.40



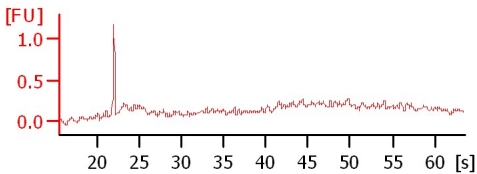
T2
 Total RNA
 RIN N/A



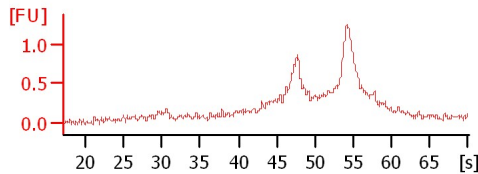
U3
 Total RNA
 RIN: 7.80



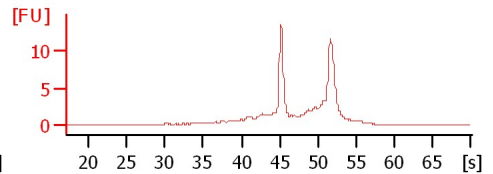
U6
 Total RNA
 RIN N/A



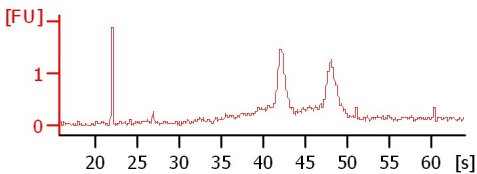
S5 (not denatured)
 Total RNA
 RIN: 2.70



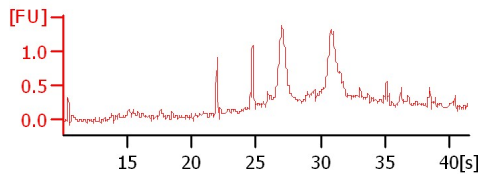
U3 (not denatured)
 Total RNA
 RIN: 2.70



S3
 Total RNA
 RIN N/A



S3 (not denatured)
 Total RNA
 RIN N/A



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad

Created: 1/8/2015 11:07:28 AM
Modified: 1/8/2015 11:26:07 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
S5	Total RNA	✓	RIN: 2.40	
T2	Total RNA	✓	RIN N/A	
U3	Total RNA	✓	RIN: 7.80	
U6	Total RNA	✓	RIN N/A	
S5 (not denatured)	Total RNA	✓	RIN: 2.70	
U3 (not denatured)	Total RNA	✓	RIN: 2.70	
S3	Total RNA	✓	RIN N/A	
S3 (not denatured)	Total RNA	✓	RIN N/A	
Sample 9			All Other Samples	
Sample 10			All Other Samples	
Sample 11			All Other Samples	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad

Created: 1/8/2015 11:07:28 AM
Modified: 1/8/2015 11:26:07 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ 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] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

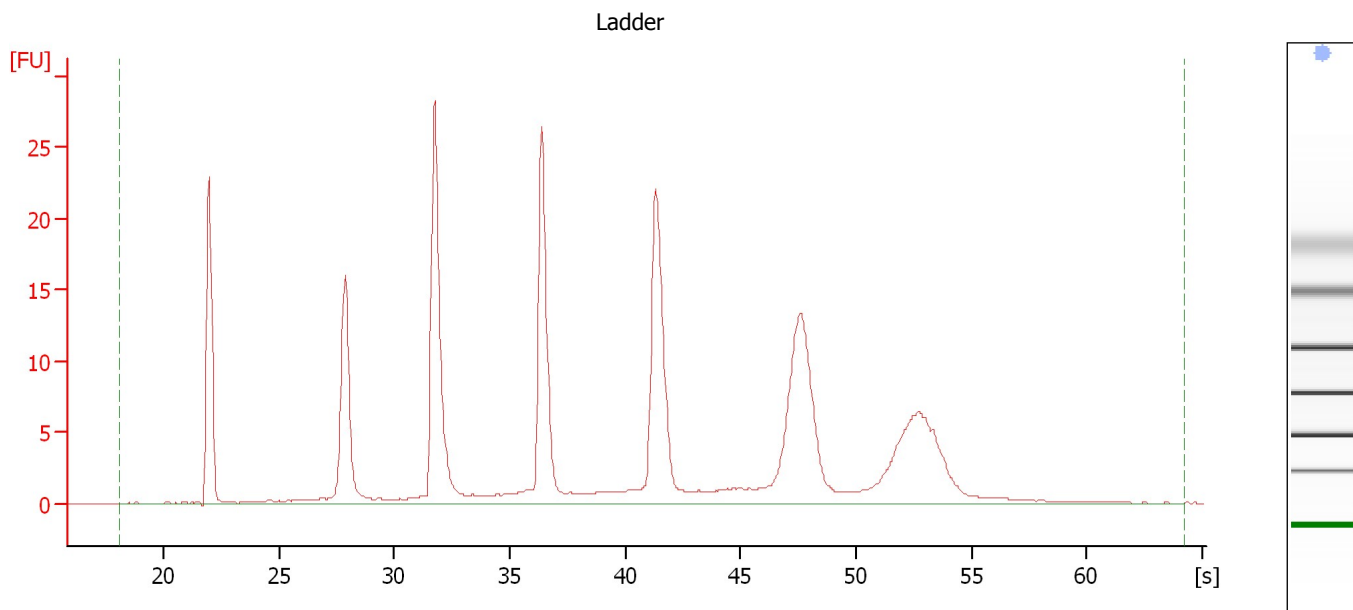
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad

Created: 1/8/2015 11:07:28 AM
Modified: 1/8/2015 11:26:07 AM

Electropherogram Summary



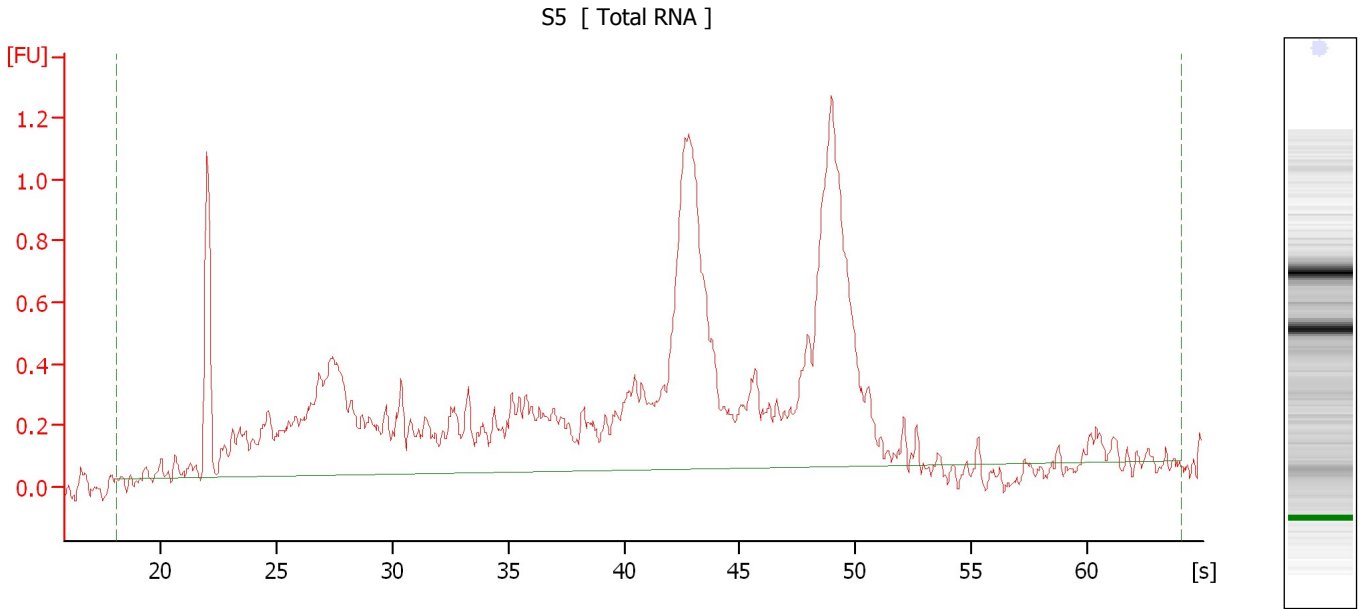
Overall Results for Ladder

RNA Area:	226.3	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad

Created: 1/8/2015 11:07:28 AM
Modified: 1/8/2015 11:26:07 AM

Electropherogram Summary Continued ...



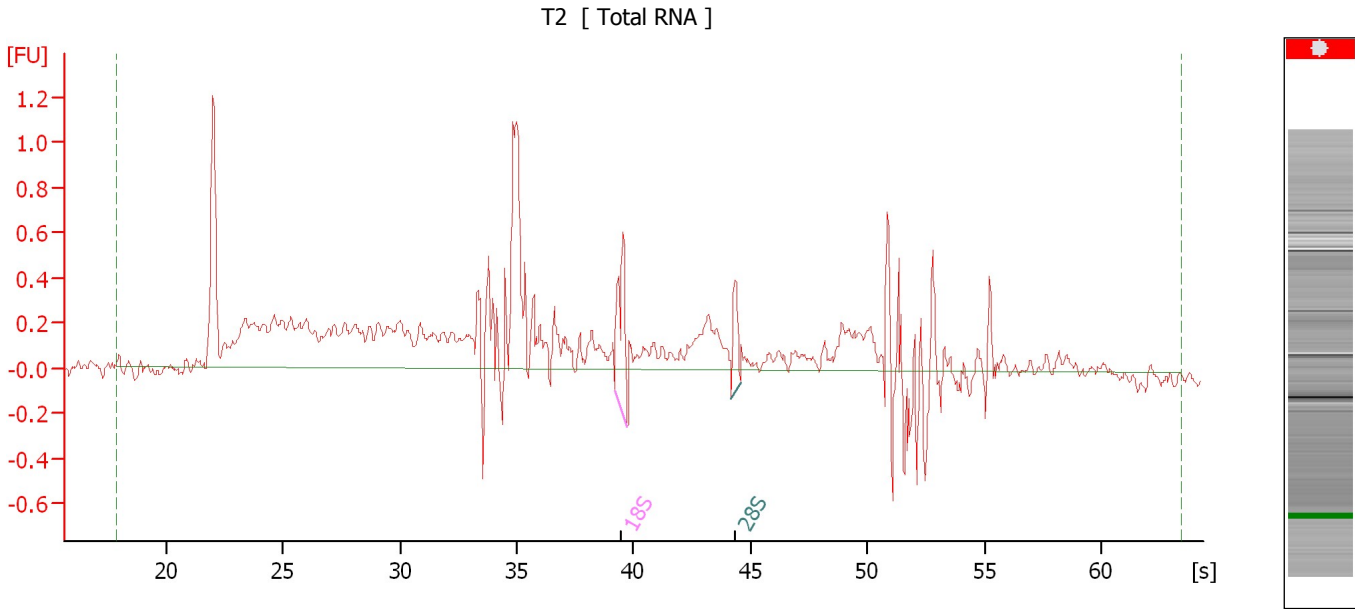
Overall Results for sample 1 : S5

RNA Area:	20.4	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	90 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad

Created: 1/8/2015 11:07:28 AM
 Modified: 1/8/2015 11:26:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : T2

RNA Area:	13.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	58 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN N/A

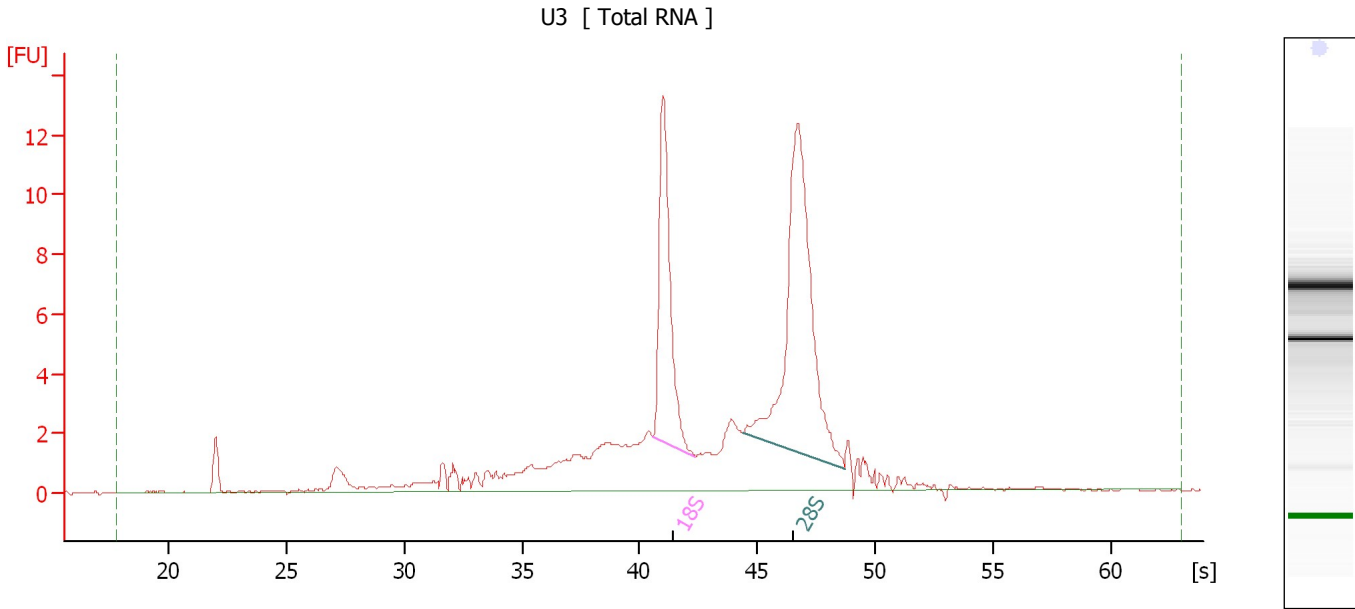
Fragment table for sample 2 : T2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,569	1,680	0.6	5.0
28S	2,917	3,034	0.2	1.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad

Created: 1/8/2015 11:07:28 AM
Modified: 1/8/2015 11:26:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : U3

RNA Area: 101.7 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 449 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 7.80

Fragment table for sample 3 : U3

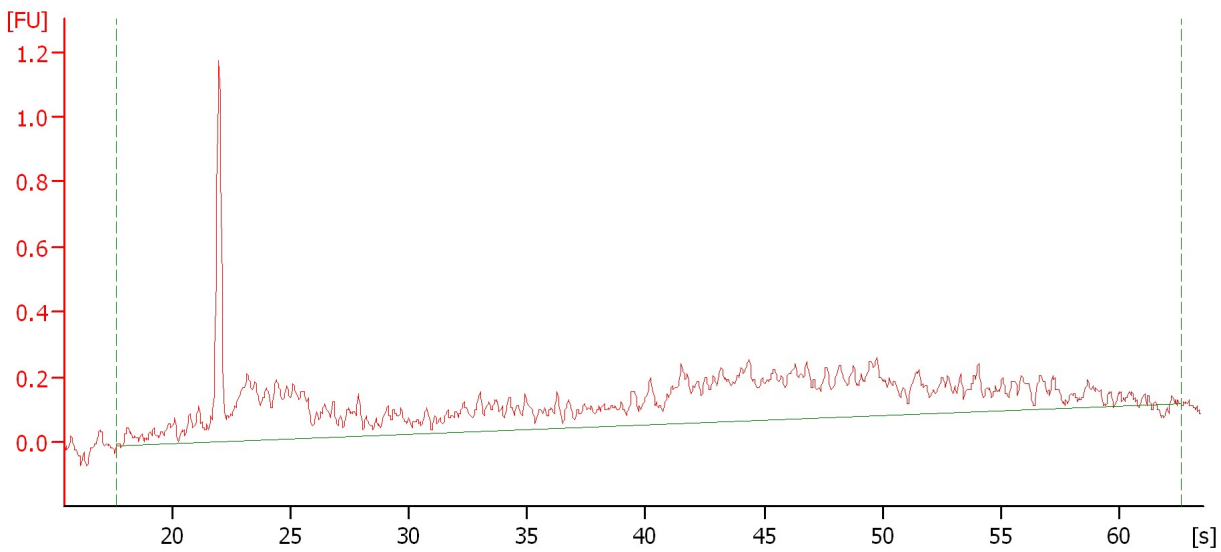
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,843	2,335	14.6	14.4
28S	2,975	4,356	28.1	27.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad


Created: 1/8/2015 11:07:28 AM
Modified: 1/8/2015 11:26:07 AM

Electropherogram Summary Continued ...

U6 [Total RNA]



Overall Results for sample 4 : U6

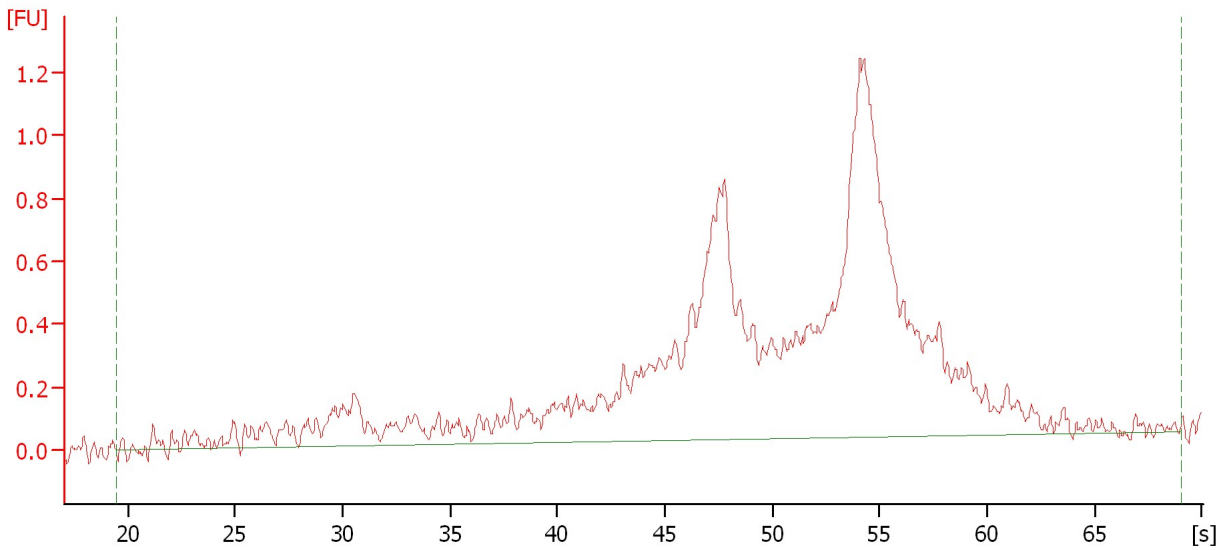
RNA Area:	9.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	43 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad

Created: 1/8/2015 11:07:28 AM
Modified: 1/8/2015 11:26:07 AM

Electropherogram Summary Continued ...

S5 (not denatured) [Total RNA]



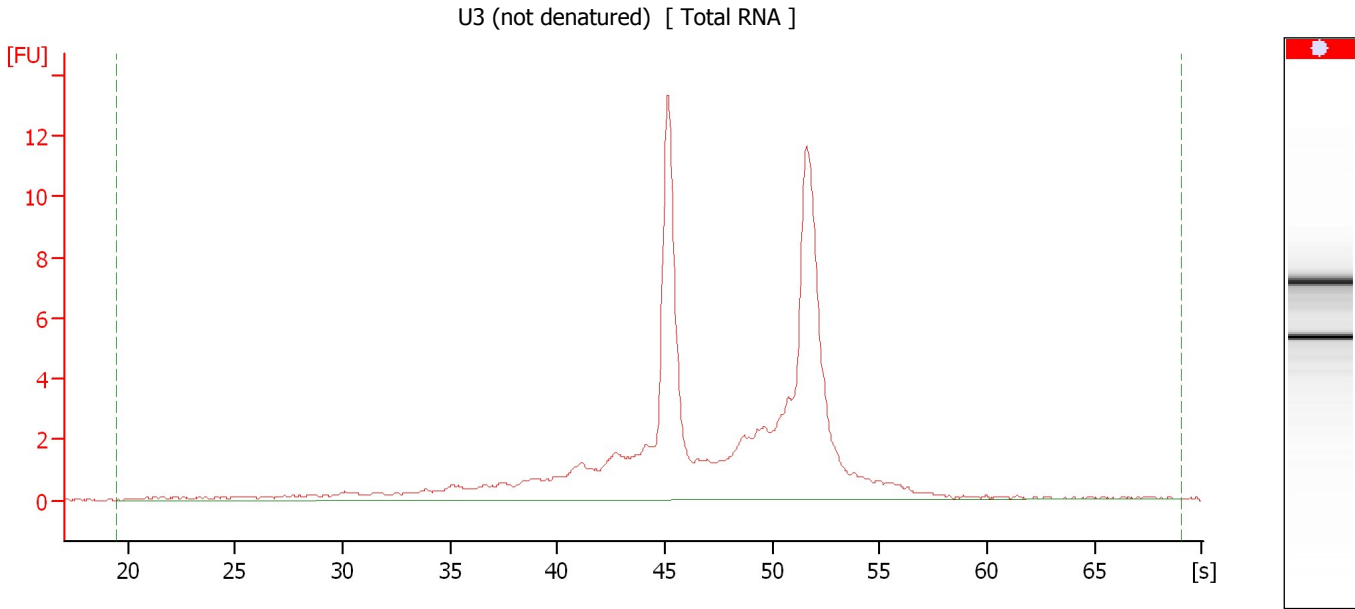
Overall Results for sample 5 : S5 (not denatured)

RNA Area:	18.5	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	82 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad

Created: 1/8/2015 11:07:28 AM
Modified: 1/8/2015 11:26:07 AM

Electropherogram Summary Continued ...



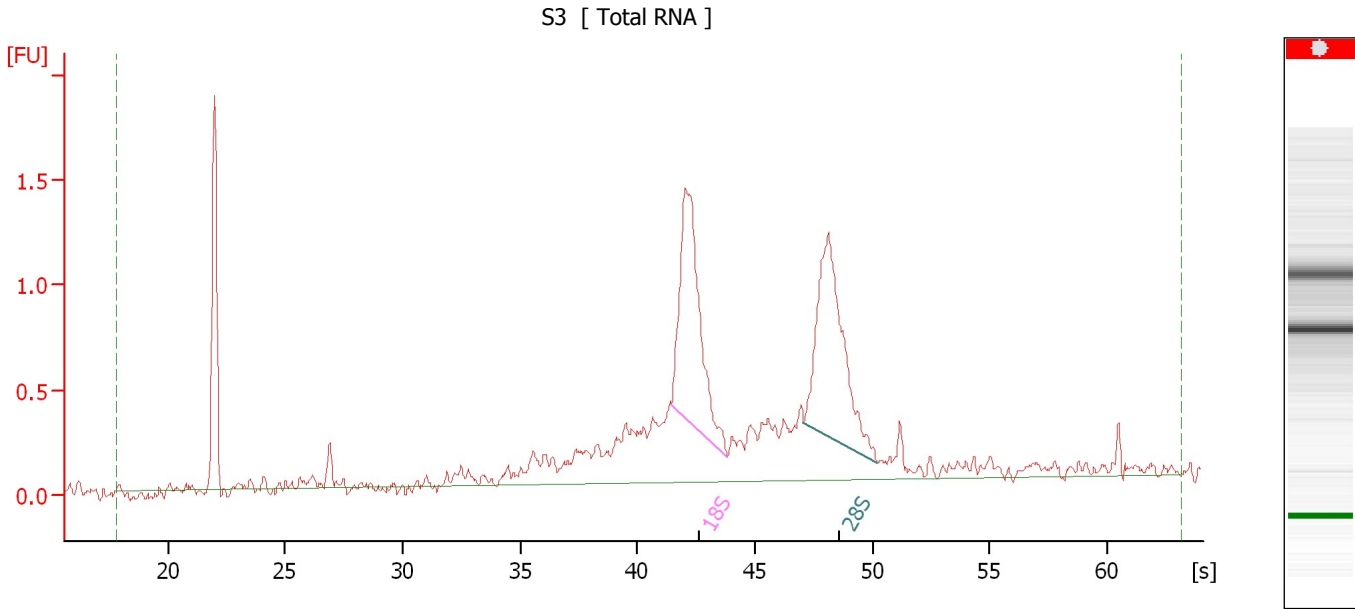
Overall Results for sample 6 : U3 (not denatured)

RNA Area:	96.6	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	427 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad

Created: 1/8/2015 11:07:28 AM
Modified: 1/8/2015 11:26:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : S3

RNA Area:	14.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	64 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN N/A

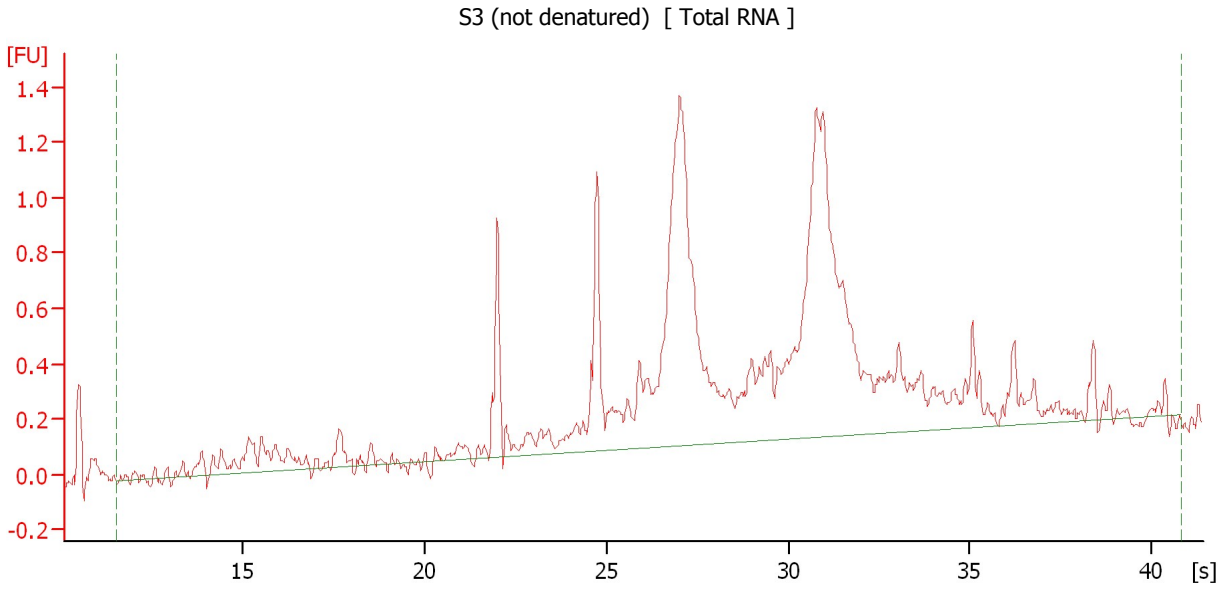
Fragment table for sample 7 : S3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,043	2,800	2.6	17.7
28S	3,835	4,840	2.6	17.6


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad

Created: 1/8/2015 11:07:28 AM
Modified: 1/8/2015 11:26:07 AM

Electropherogram Summary Continued ...



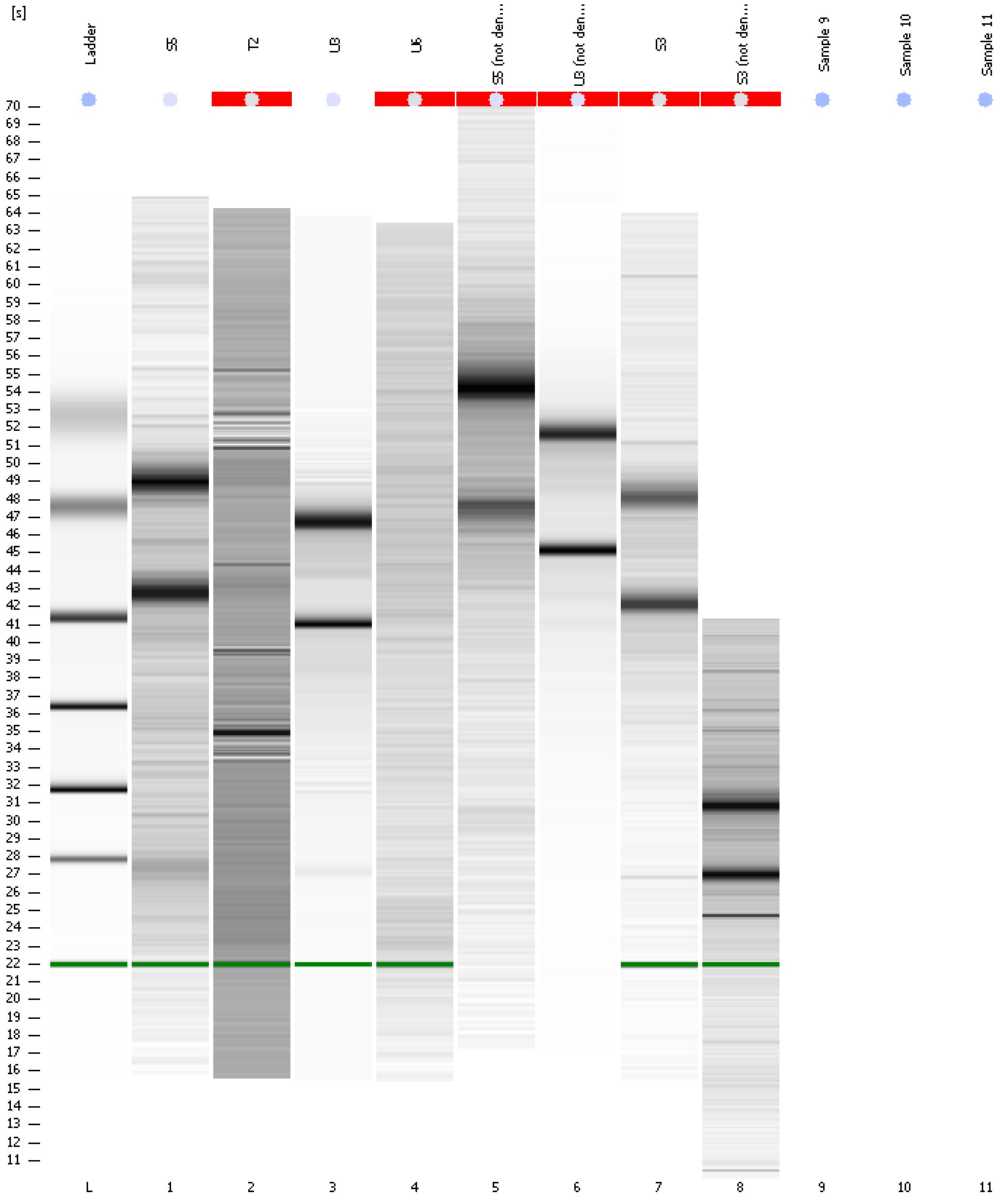
Overall Results for sample 8 : S3 (not denatured)

RNA Area:	15.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	70 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad

Created: 1/8/2015 11:07:28 AM
Modified: 1/8/2015 11:26:07 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad

Created: 1/8/2015 11:07:28 AM
Modified: 1/8/2015 11:26:07 AM

Invalid Samples

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad

Created: 1/8/2015 11:07:28 AM
 Modified: 1/8/2015 11:26:07 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		1/8/2015 11:26:03 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-08\2015-01-08_002.xad)		Instrument	Run		1/8/2015 11:07:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/8/2015 11:07:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/8/2015 11:07:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/8/2015 11:07:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/8/2015 11:07:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/8/2015 11:07:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/8/2015 11:07:33 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1