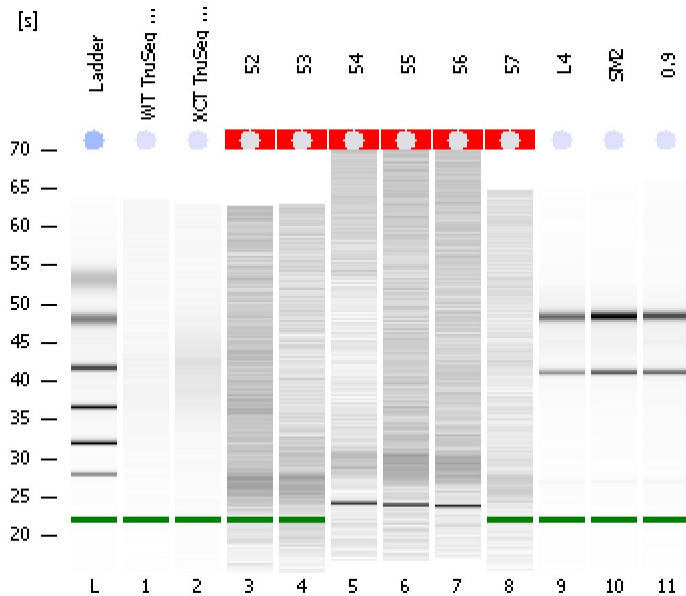


Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
 Modified: 9/24/2014 10:48:20 AM

Electrophoresis File Run Summary



Instrument Information:

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

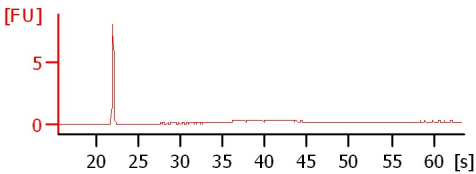
Assay Information:

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.

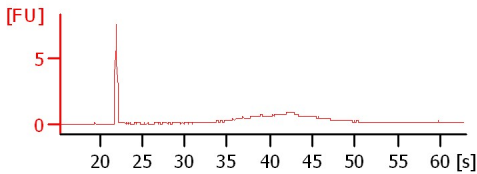
Chip Information:

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

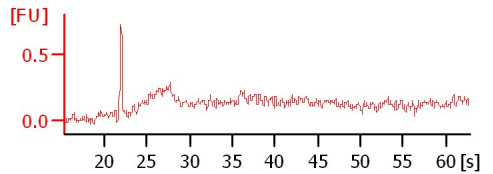
WT TruSeq polyA
 RIN:1



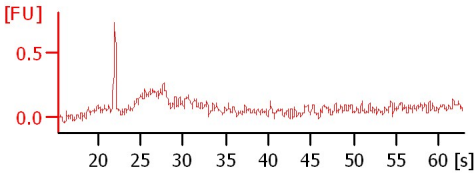
XCT TruSeq polyA
 RIN: 1.10



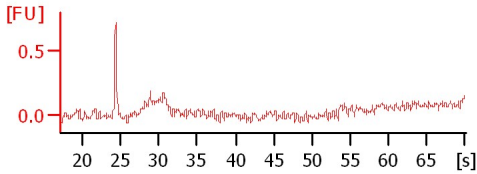
52
 RIN N/A



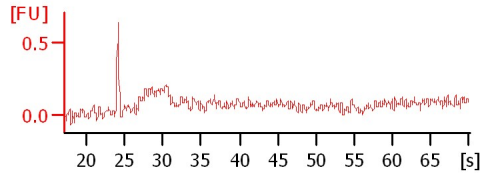
53
 RIN N/A



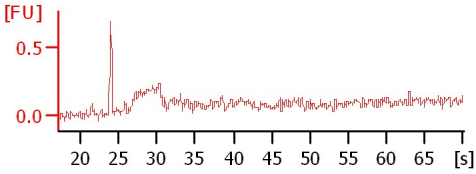
54
 RIN N/A



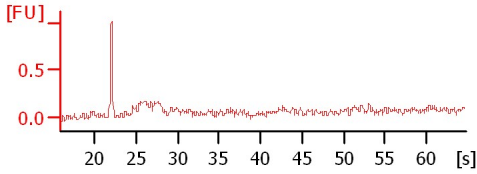
55
 RIN N/A



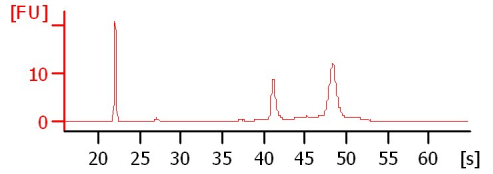
56
 RIN N/A



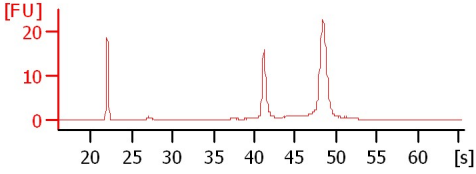
57
 RIN N/A



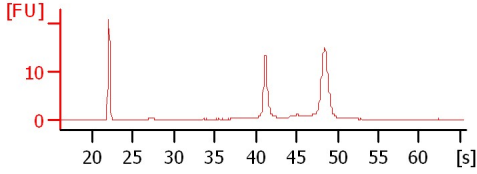
L4
 RIN: 9.80



SM2
 RIN:10



0.9
 RIN:10



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
 Modified: 9/24/2014 10:48:20 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
WT TruSeq polyA		✓	RIN:1	
XCT TruSeq polyA		✓	RIN: 1.10	
52		✓	RIN N/A	
53		✓	RIN N/A	
54		✓	RIN N/A	
55		✓	RIN N/A	
56		✓	RIN N/A	
57		✓	RIN N/A	
L4		✓	RIN: 9.80	
SM2		✓	RIN:10	
0.9		✓	RIN:10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
Modified: 9/24/2014 10:48:20 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/μl] : 1000
Lower Marker Concentration [pg/μl] : 0
Upper Marker Concentration [pg/μl] : 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

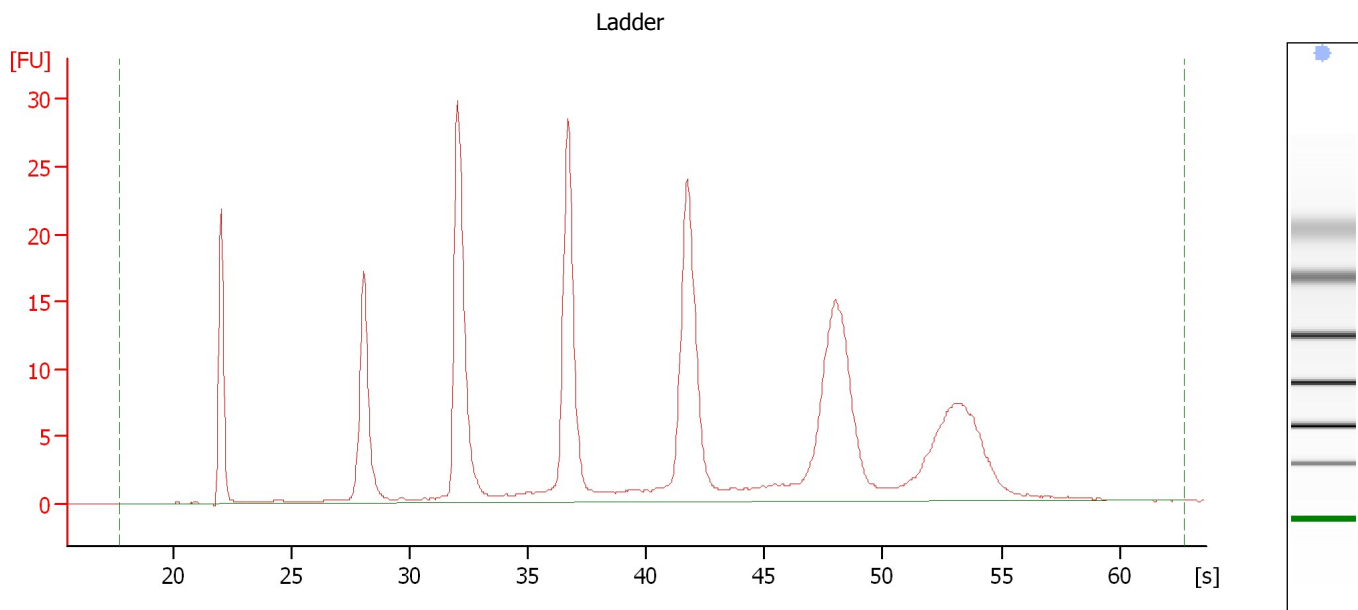
Ladder

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\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
Modified: 9/24/2014 10:48:20 AM

Electropherogram Summary



Overall Results for Ladder

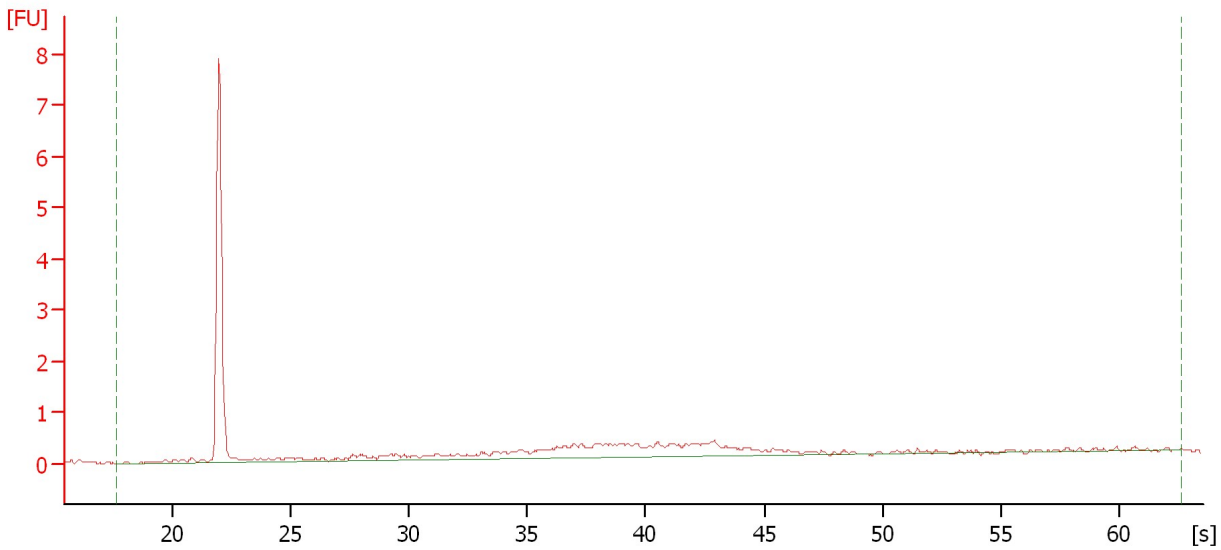
RNA Area:	266.0	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
Modified: 9/24/2014 10:48:20 AM

Electropherogram Summary Continued ...

WT TruSeq polyA



Overall Results for sample 1 : WT TruSeq polyA

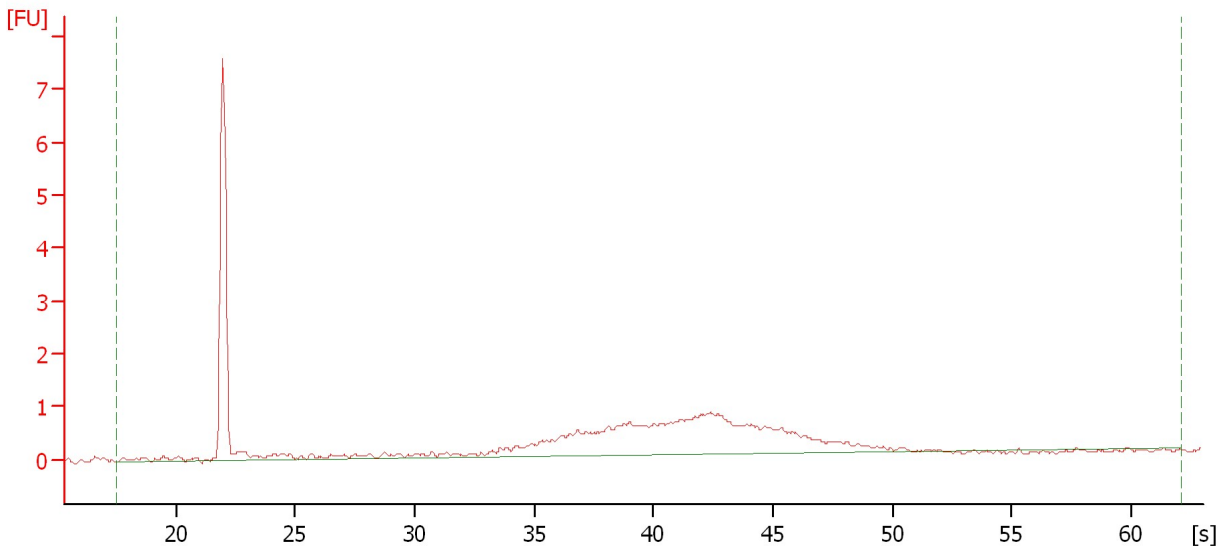
RNA Area:	9.1	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	34 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
Modified: 9/24/2014 10:48:20 AM

Electropherogram Summary Continued ...

XCT TruSeq polyA



Overall Results for sample 2 : XCT TruSeq polyA

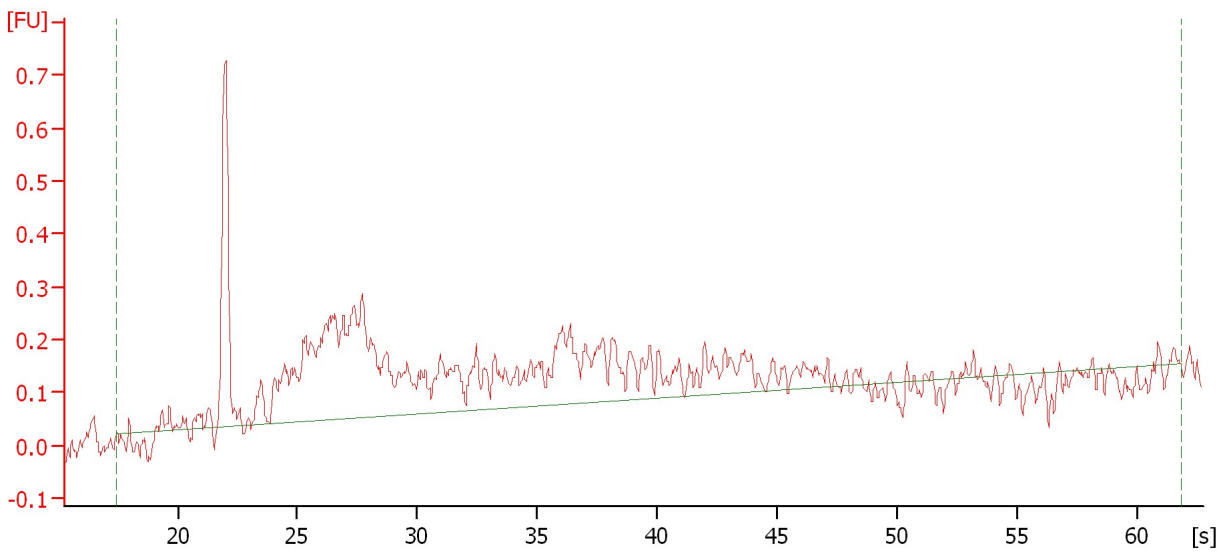
RNA Area:	19.9	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	75 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad


Created: 9/24/2014 10:25:25 AM
Modified: 9/24/2014 10:48:20 AM

Electropherogram Summary Continued ...

52



Overall Results for sample 3 : 52

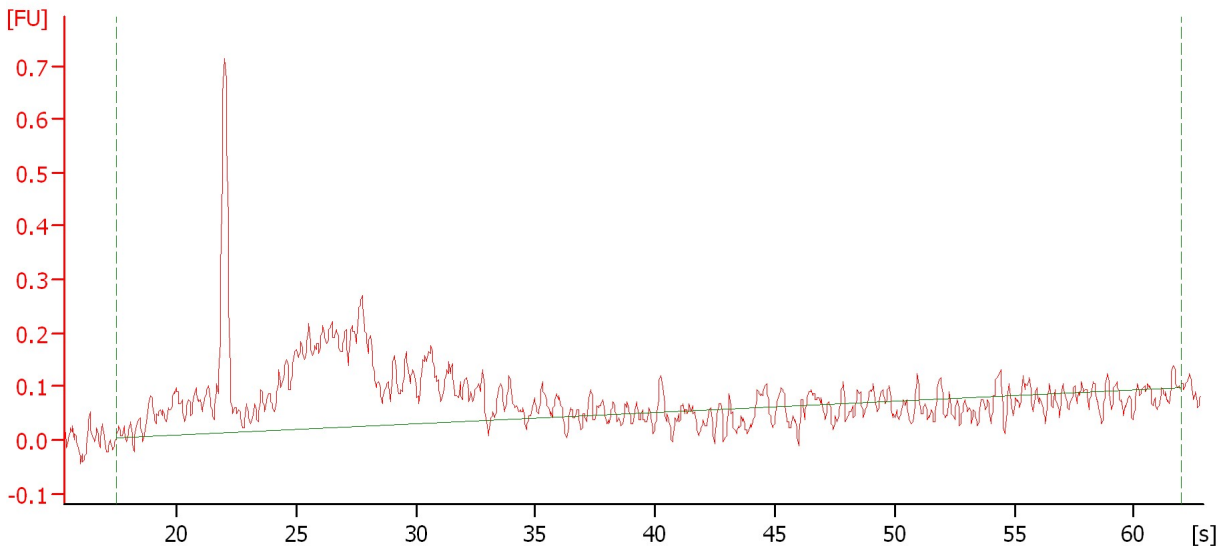
RNA Area:	6.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	23 pg/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad


Created: 9/24/2014 10:25:25 AM
Modified: 9/24/2014 10:48:20 AM

Electropherogram Summary Continued ...

53



Overall Results for sample 4 : 53

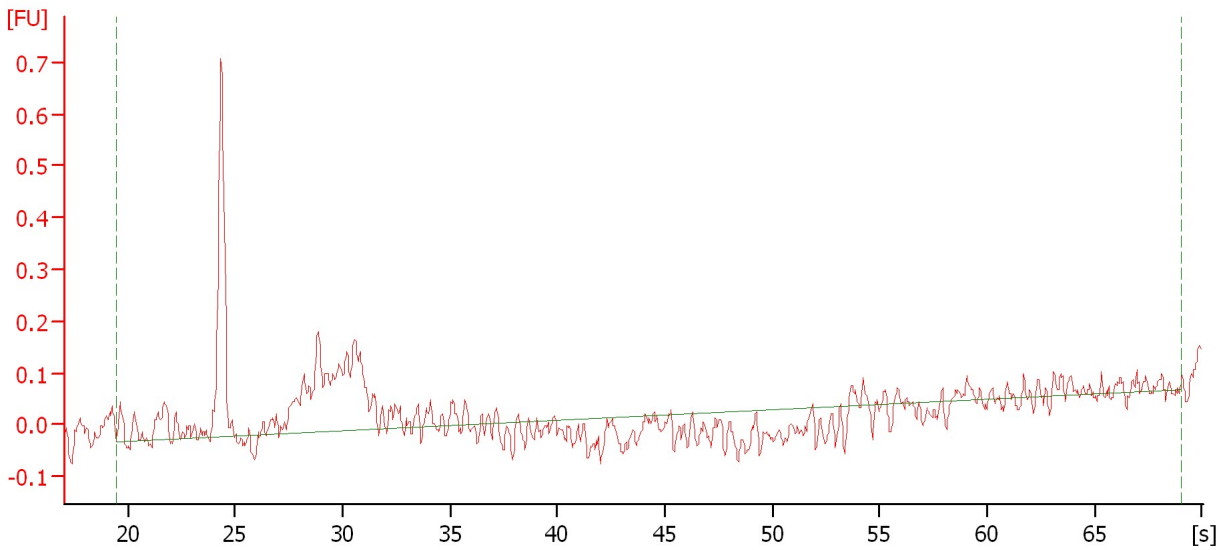
RNA Area:	5.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	20 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
Modified: 9/24/2014 10:48:20 AM

Electropherogram Summary Continued ...

54



Overall Results for sample 5 : 54

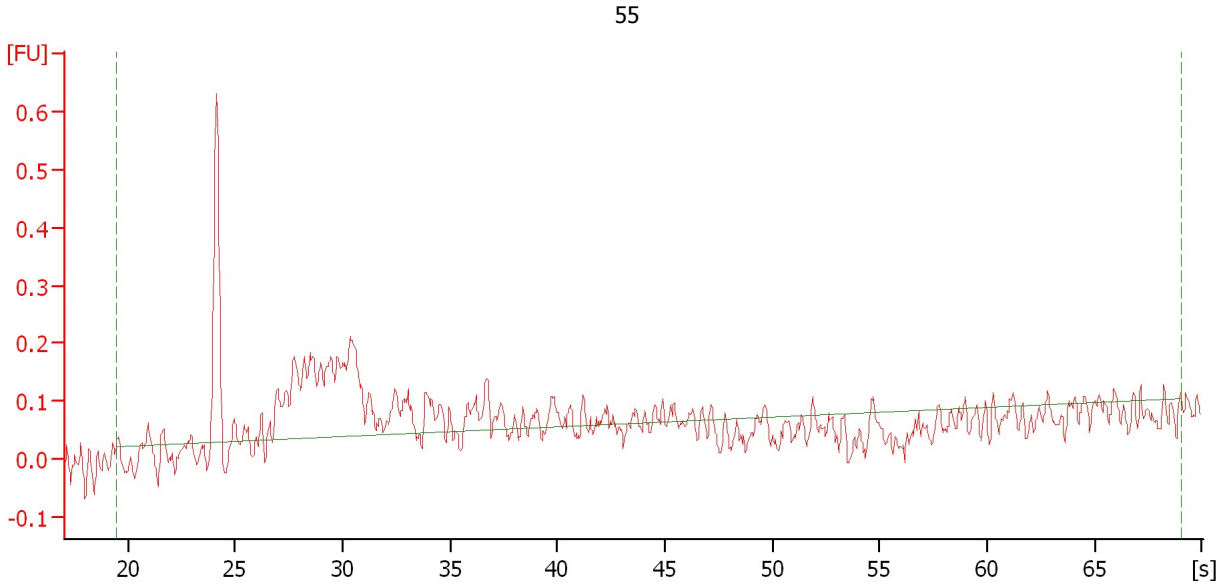
RNA Concentration: 13 pg/μl
rRNA Ratio [28s / 18s]: 0.0

Result Flagging Color:
Result Flagging Label: RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
Modified: 9/24/2014 10:48:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 55

RNA Concentration: 13 pg/ μ l
rRNA Ratio [28s / 18s]: 0.0

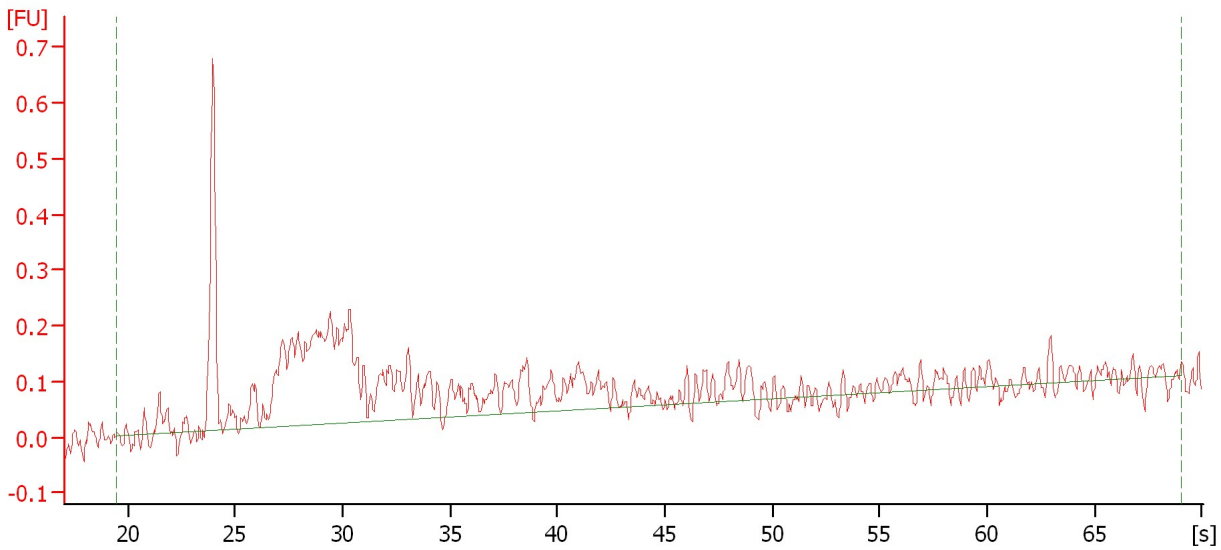
Result Flagging Color:
Result Flagging Label: RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
Modified: 9/24/2014 10:48:20 AM

Electropherogram Summary Continued ...

56



Overall Results for sample 7 : 56

RNA Concentration: 21 pg/μl
rRNA Ratio [28s / 18s]: 0.0

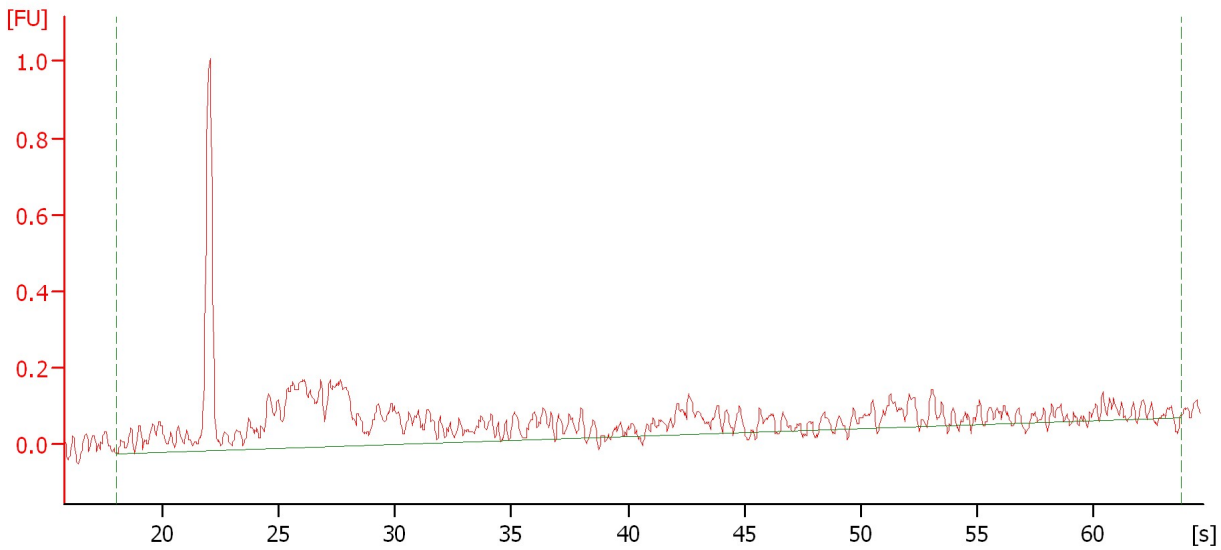
Result Flagging Color:
Result Flagging Label: RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
Modified: 9/24/2014 10:48:20 AM

Electropherogram Summary Continued ...

57



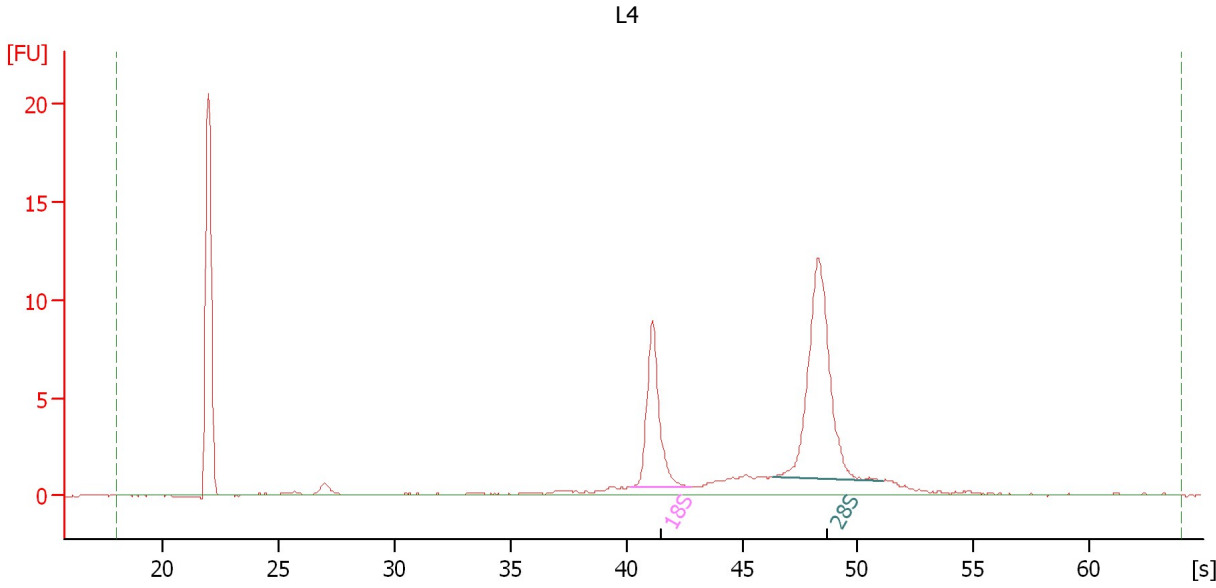
Overall Results for sample 8 : 57

RNA Area:	5.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	21 pg/μl	Result Flagging Color:	<input type="checkbox"/>
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\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
Modified: 9/24/2014 10:48:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : L4

RNA Area:	62.2	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	234 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.80

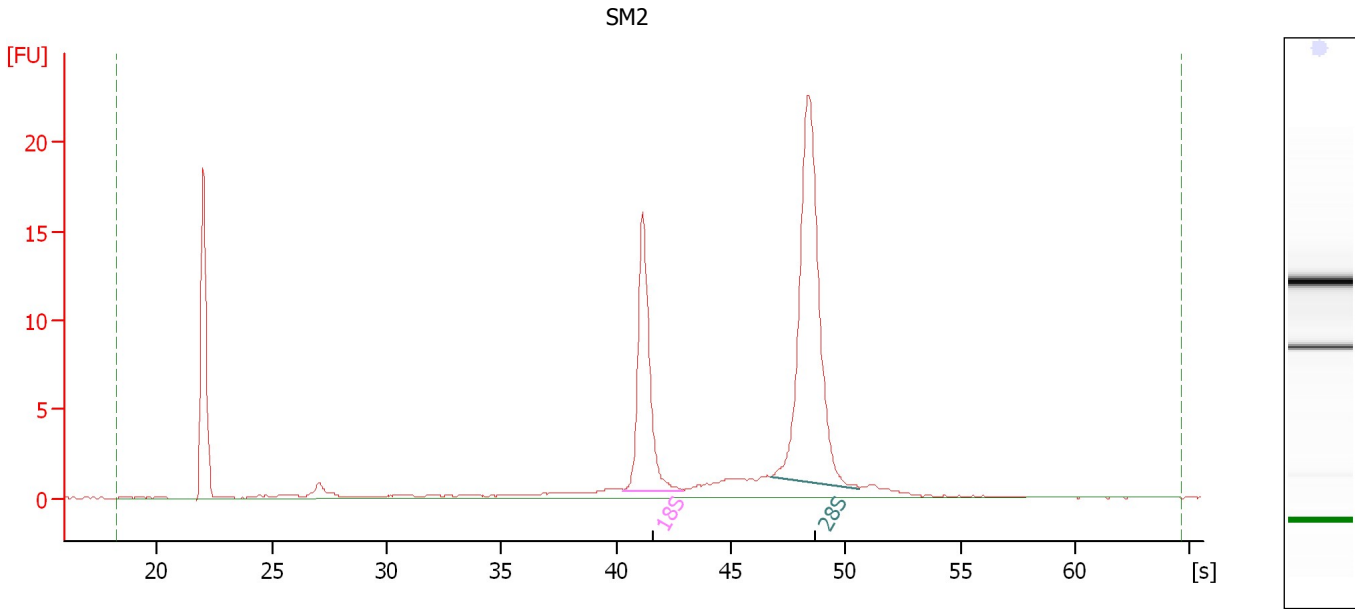
Fragment table for sample 9 : L4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,706	2,340	12.7	20.5
28S	3,463	4,969	24.8	39.9

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
 Modified: 9/24/2014 10:48:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : SM2

RNA Area:	98.2	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	369 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN:10

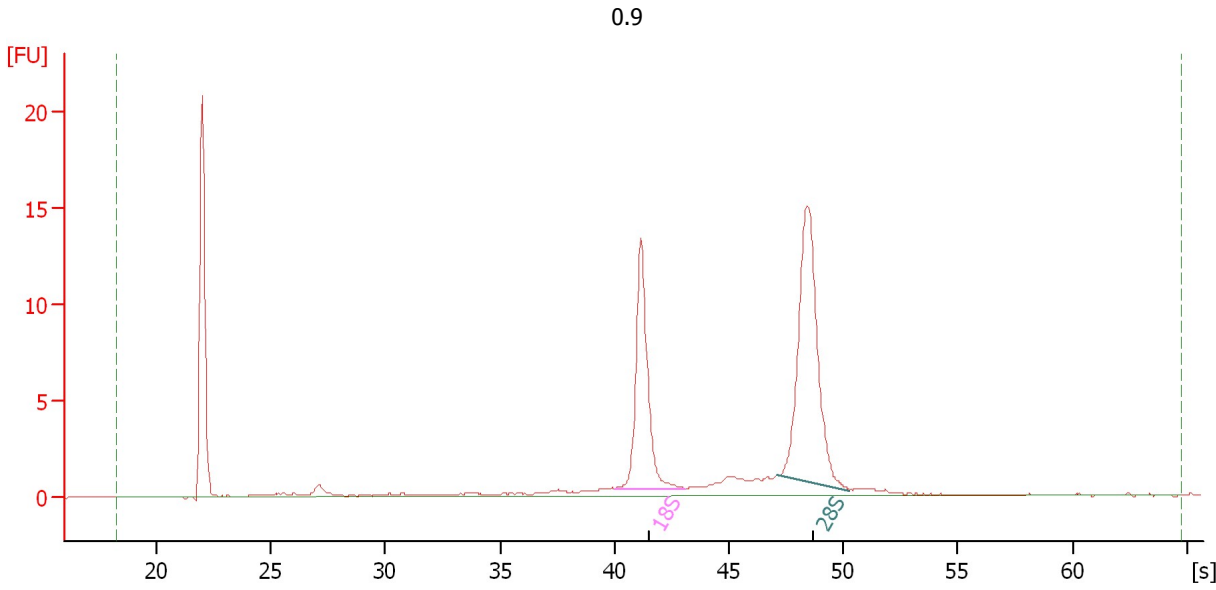
Fragment table for sample 10 : SM2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,717	2,366	21.6	22.0
28S	3,590	4,828	43.5	44.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
Modified: 9/24/2014 10:48:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 0.9

RNA Area:	69.7	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	262 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN:10

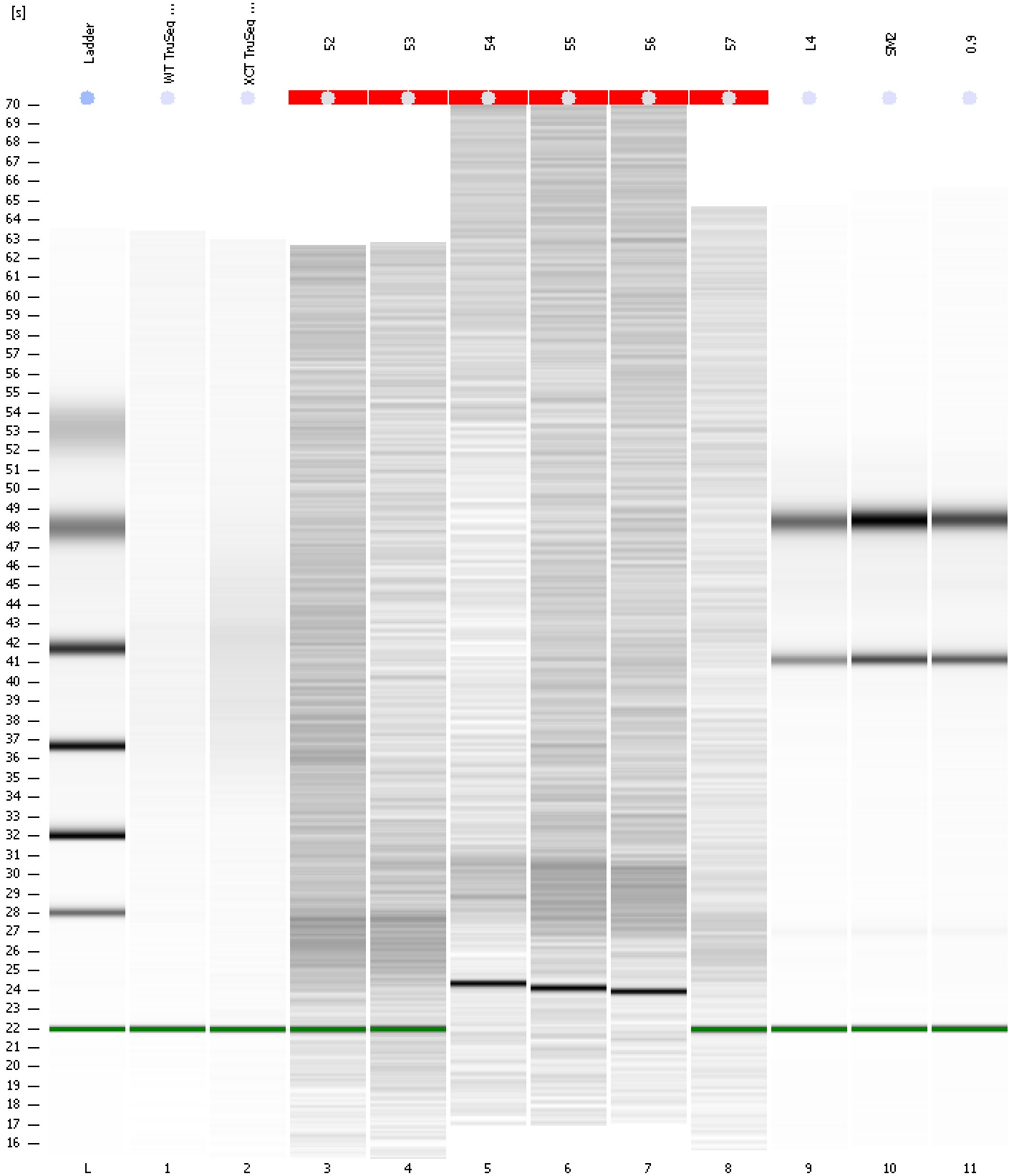
Fragment table for sample 11 : 0.9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,669	2,425	18.4	26.3
28S	3,726	4,728	28.2	40.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
Modified: 9/24/2014 10:48:20 AM

Gel Image

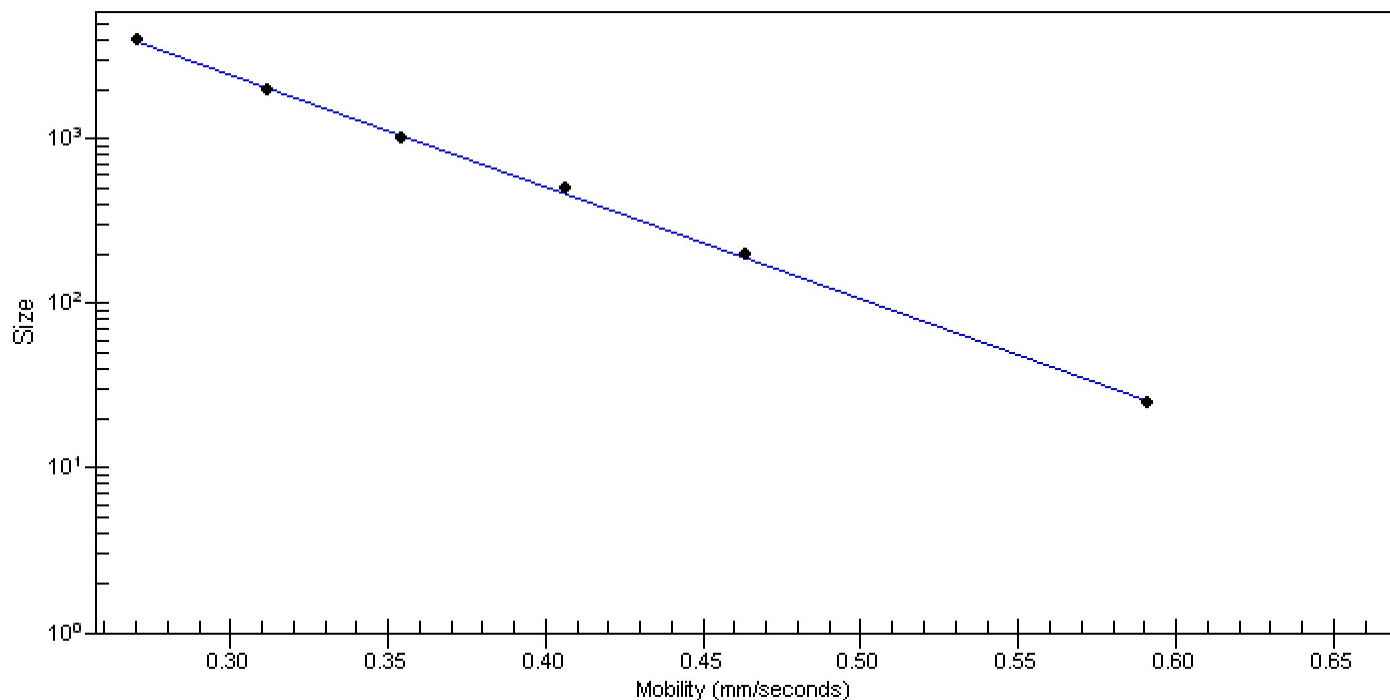


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
Modified: 9/24/2014 10:48:20 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad

Created: 9/24/2014 10:25:25 AM
 Modified: 9/24/2014 10:48:20 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		9/24/2014 10:48:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-24\2014-09-24_003.xad)		Instrument	Run		9/24/2014 10:25:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/24/2014 10:25:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/24/2014 10:25:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/24/2014 10:25:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/24/2014 10:25:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/24/2014 10:25:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/24/2014 10:25:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1