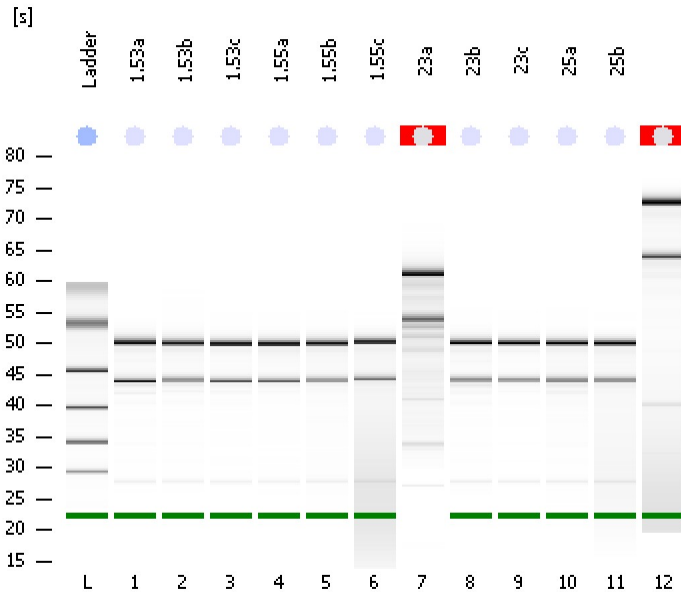


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Electrophoresis File Run Summary



Instrument Information:

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

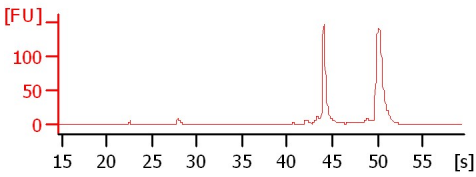
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

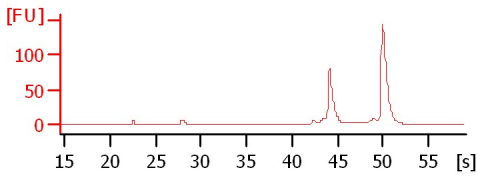
Chip Information:

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

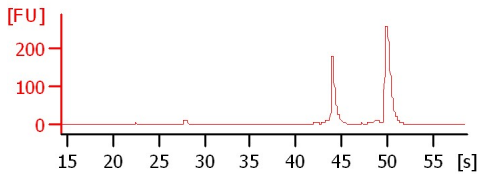
1.53a
RIN: 9.50



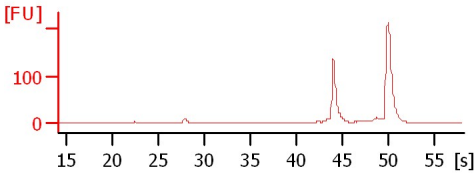
1.53b
RIN: 9.90



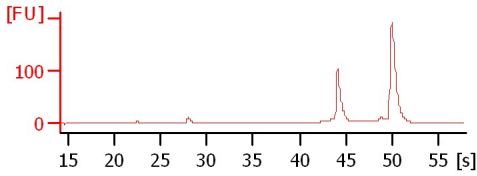
1.53c
RIN: 10



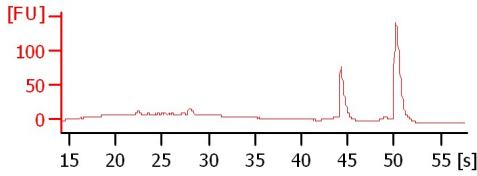
1.55a
RIN: 10



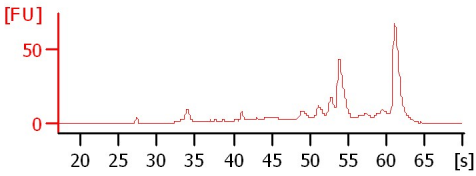
1.55b
RIN: 9.30



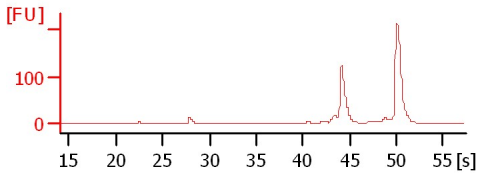
1.55c
RIN: 8.30



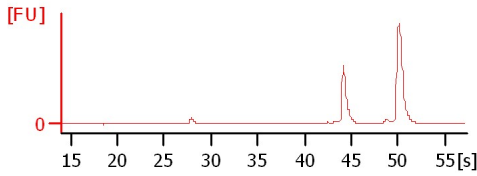
23a
RIN N/A



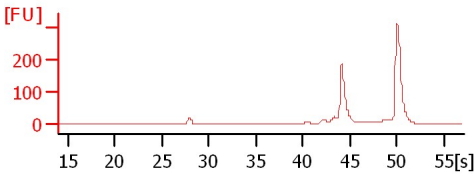
23b
RIN: 9.50



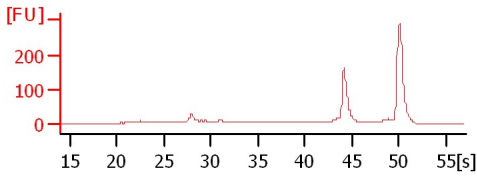
23c
RIN: 10



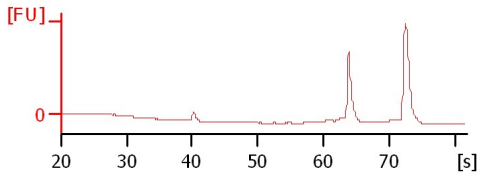
25a
RIN: 9.70



25b
RIN: 8.40



25c
RIN N/A



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
 Modified: 7/22/2014 4:05:09 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1.53a		✓	RIN: 9.50	
1.53b		✓	RIN: 9.90	
1.53c		✓	RIN:10	
1.55a		✓	RIN:10	
1.55b		✓	RIN: 9.30	
1.55c		✓	RIN: 8.30	
23a		✓	RIN N/A	
23b		✓	RIN: 9.50	
23c		✓	RIN:10	
25a		✓	RIN: 9.70	
25b		✓	RIN: 8.40	
		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 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

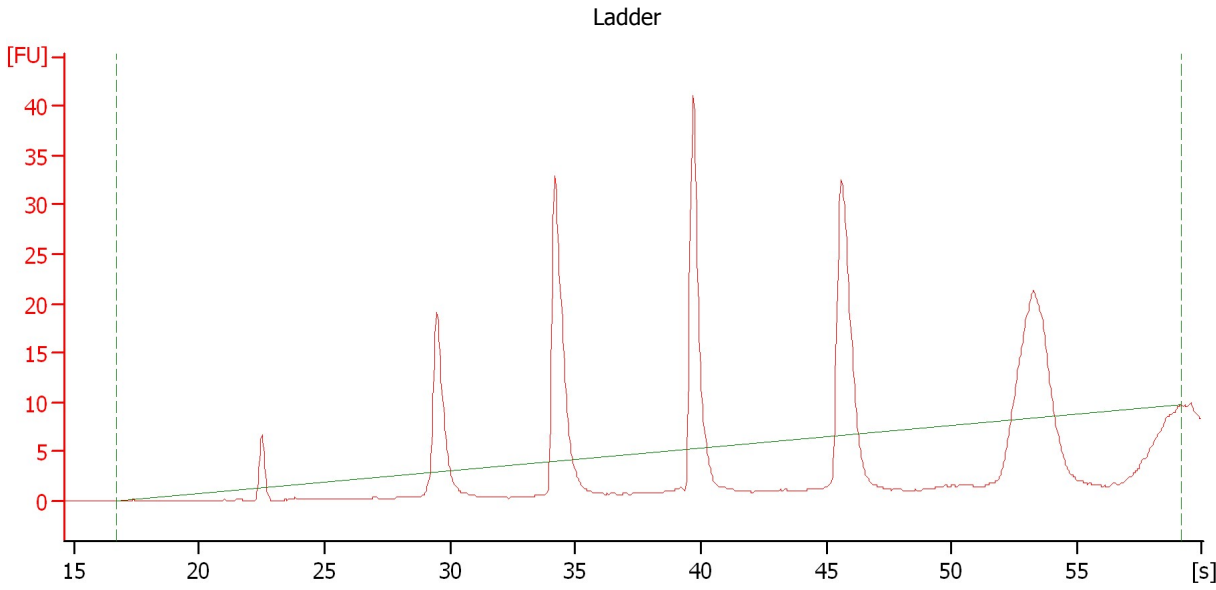
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Electropherogram Summary



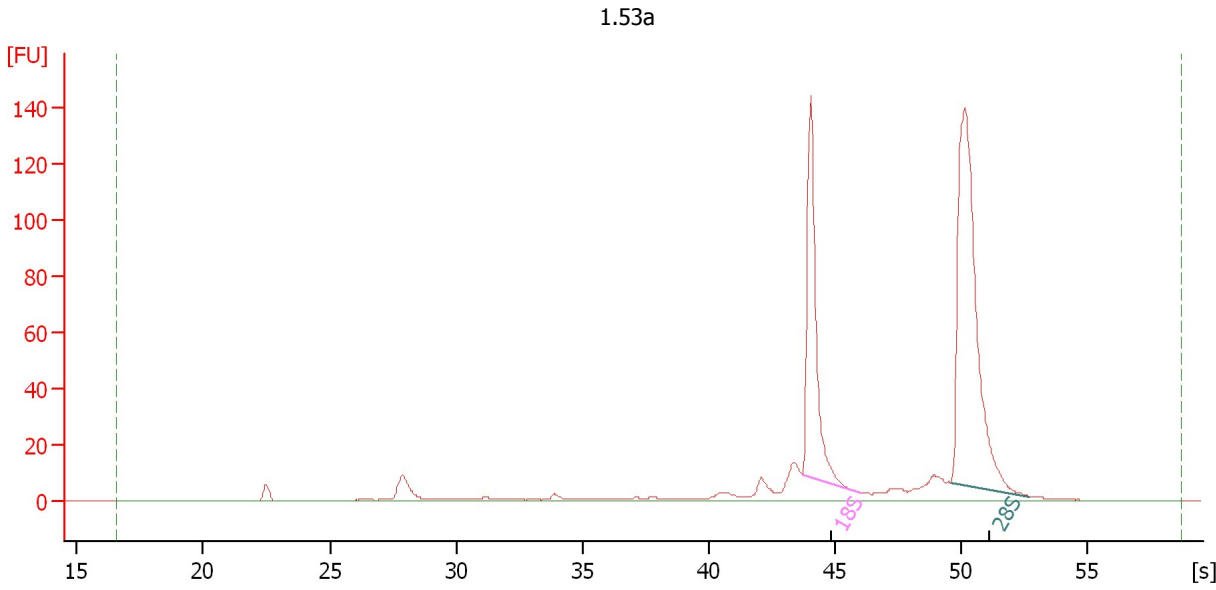
Overall Results for Ladder

RNA Area:	140.7	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1.53a

RNA Area:	526.1	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	561 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.50

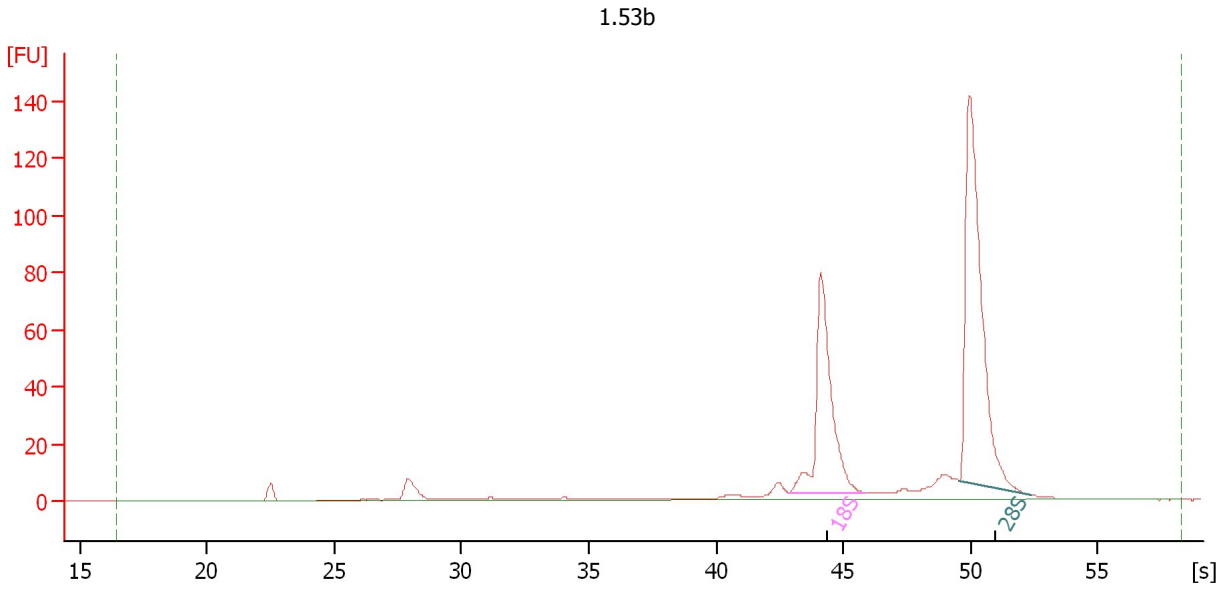
Fragment table for sample 1 : 1.53a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,682	2,109	118.0	22.4
28S	3,041	3,850	225.3	42.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 1.53b

RNA Area:	445.7	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	475 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.90

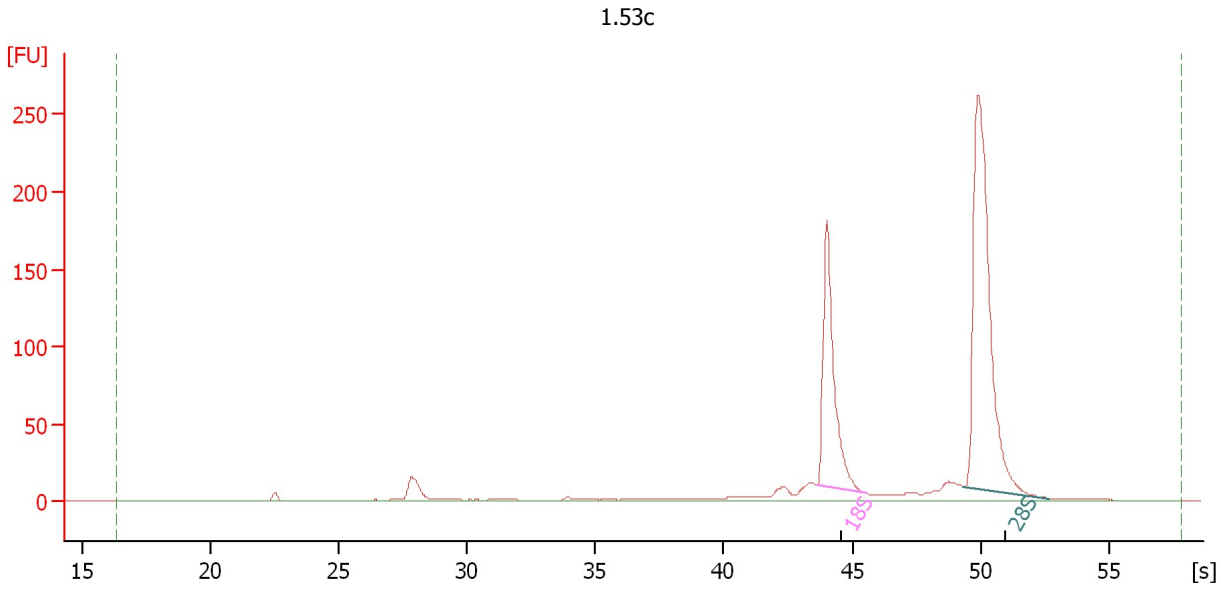
Fragment table for sample 2 : 1.53b

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,534	2,074	117.3	26.3
28S	3,032	3,769	190.3	42.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 1.53c

RNA Area: 774.1 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 826 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN:10

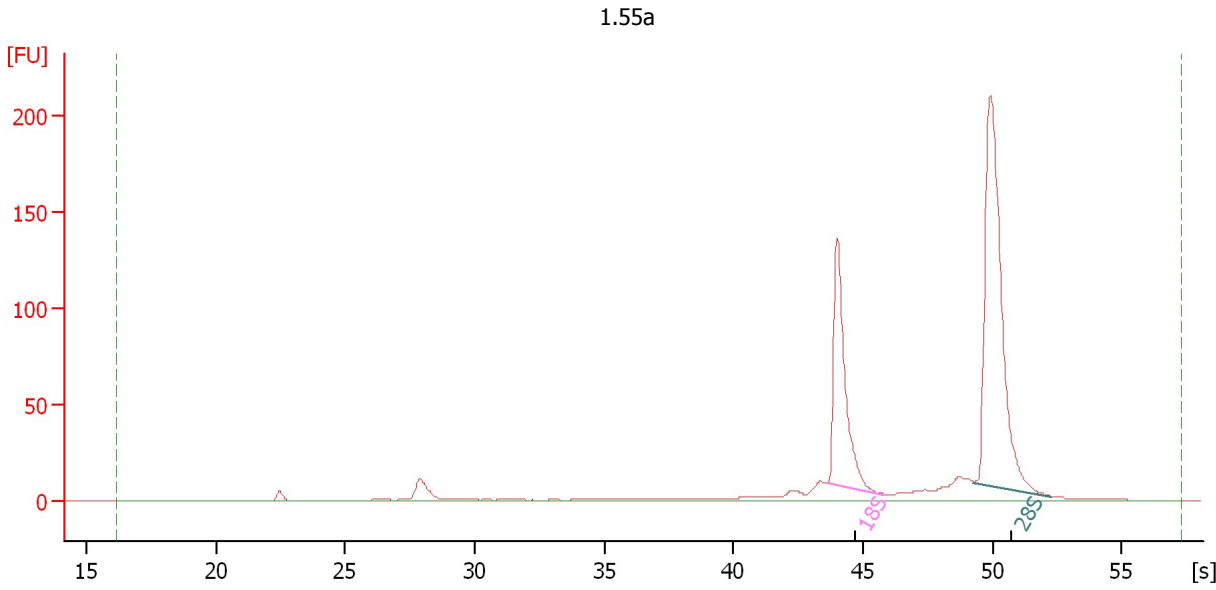
Fragment table for sample 3 : 1.53c

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,671	1,997	184.0	23.8
28S	2,979	3,842	372.0	48.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 1.55a

RNA Area: 637.6 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 680 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN:10

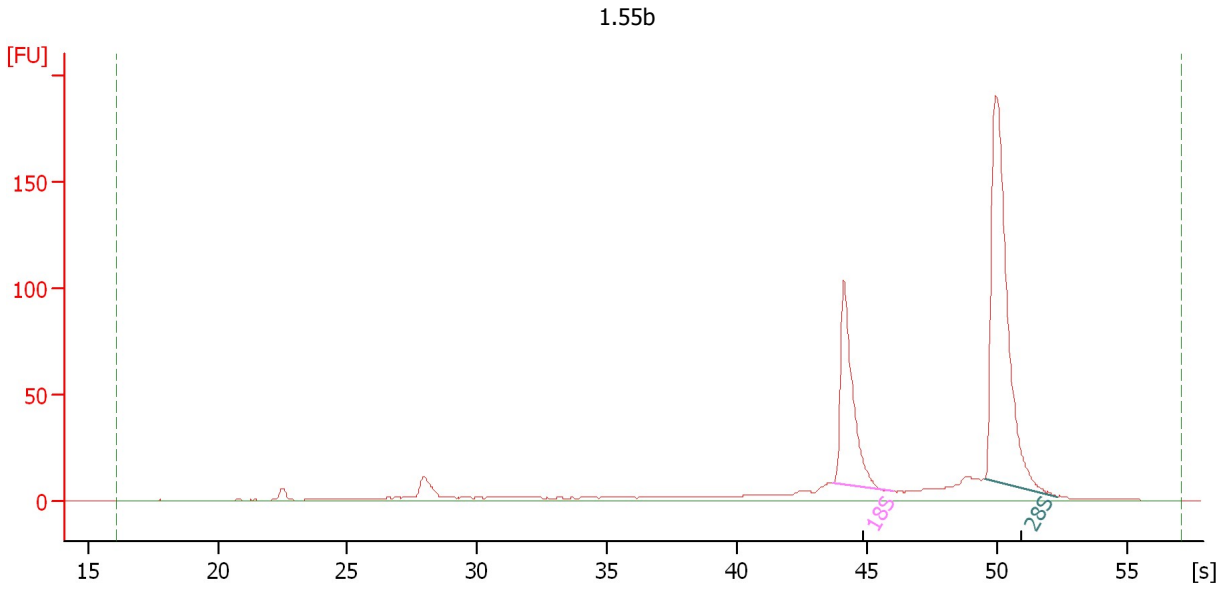
Fragment table for sample 4 : 1.55a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,666	2,049	143.0	22.4
28S	2,958	3,748	294.1	46.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 1.55b

RNA Area:	623.4	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	665 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.30

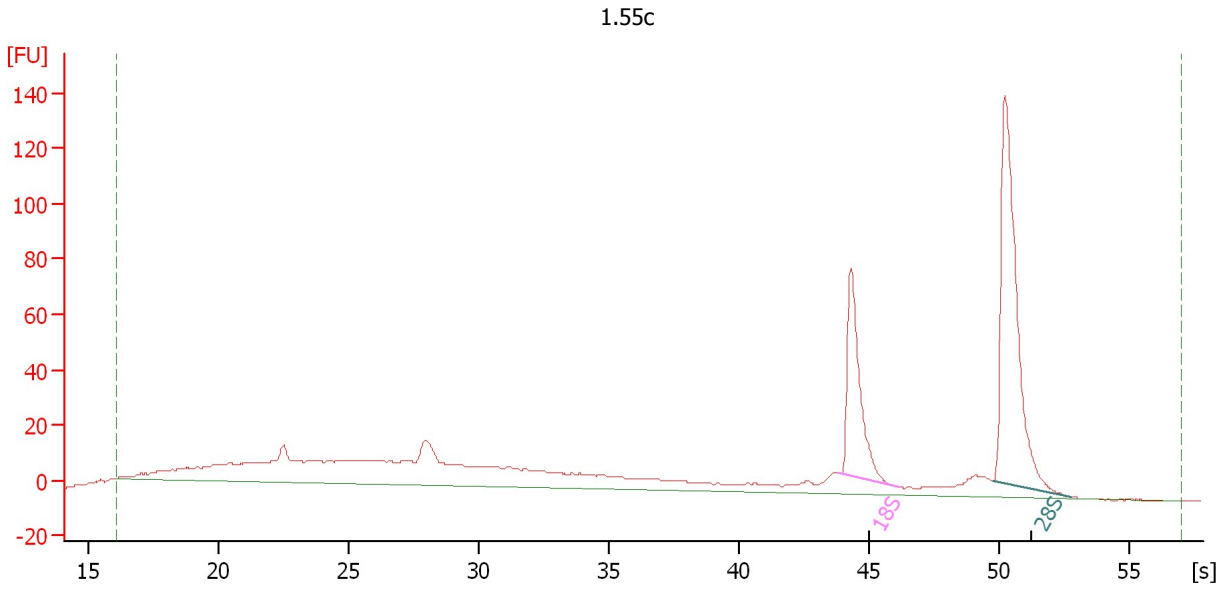
Fragment table for sample 5 : 1.55b

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,681	2,113	119.2	19.1
28S	3,018	3,752	255.6	41.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 1.55c

RNA Area:	849.0	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	905 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 8.30

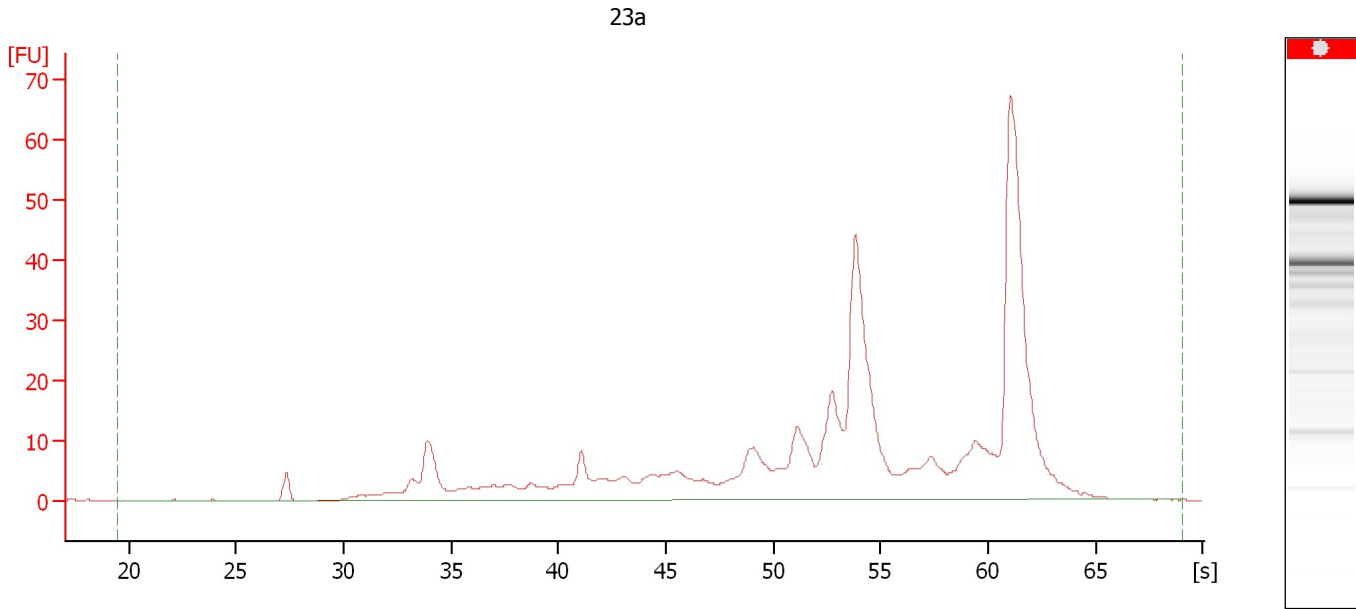
Fragment table for sample 6 : 1.55c

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	2,144	92.1	10.9
28S	3,092	3,867	193.5	22.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Electropherogram Summary Continued ...



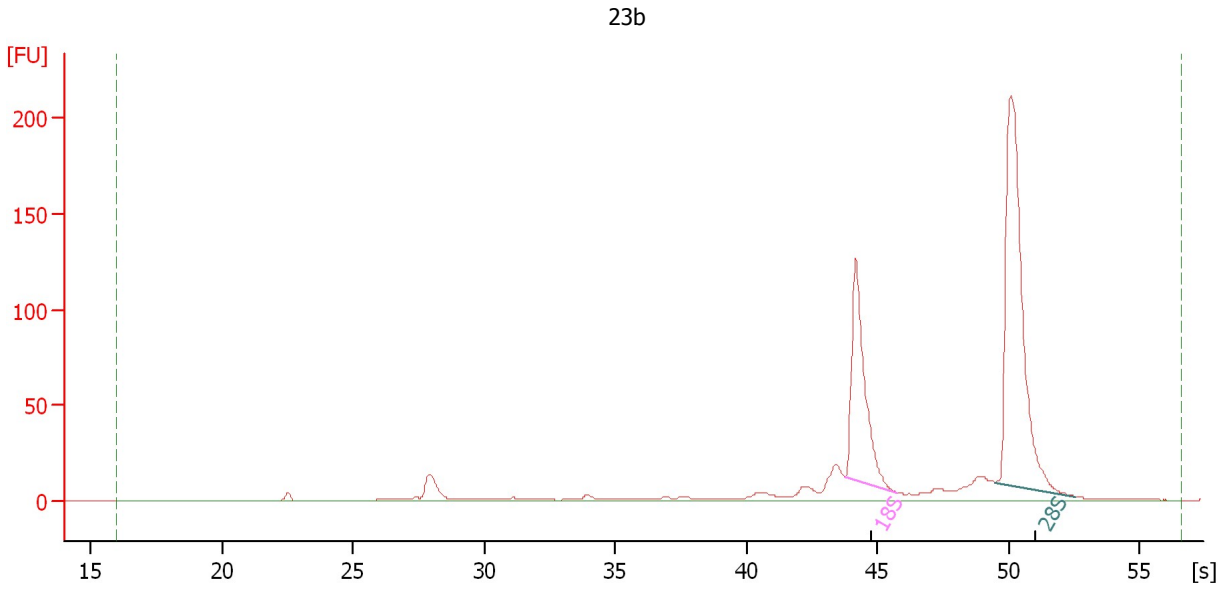
Overall Results for sample 7 : 23a

RNA Concentration:	506 ng/ μ l	Result Flagging Color:	<input type="checkbox"/>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 23b

RNA Area: 683.0 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 728 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.50

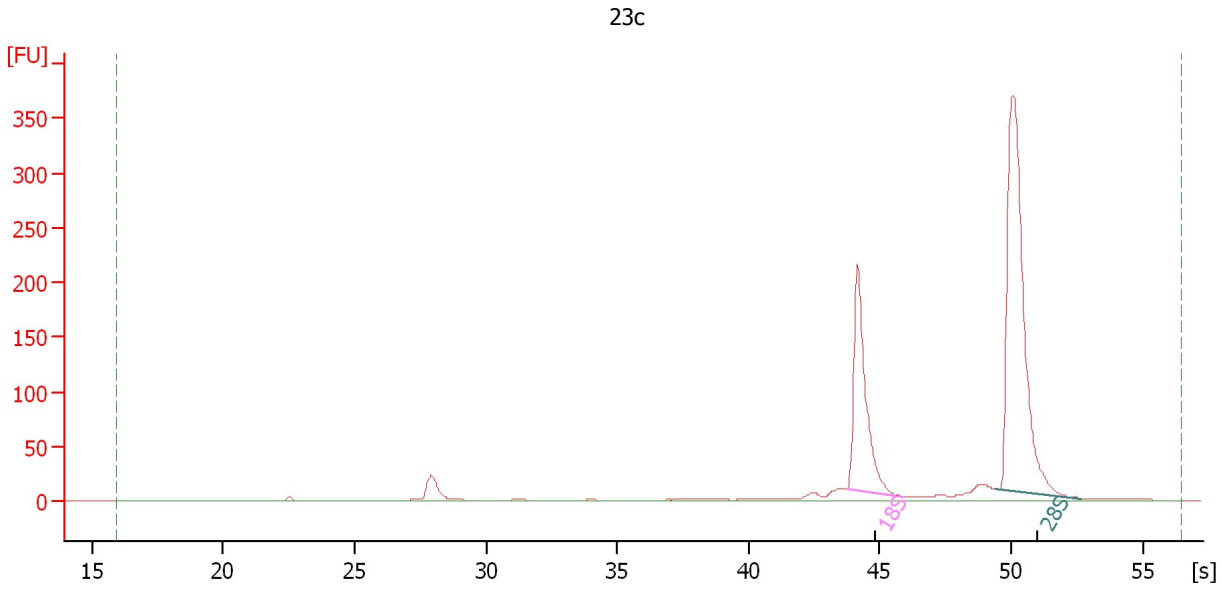
Fragment table for sample 8 : 23b

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,690	2,035	146.3	21.4
28S	3,018	3,798	290.9	42.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 23c

RNA Area: 997.5 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 1,064 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN:10

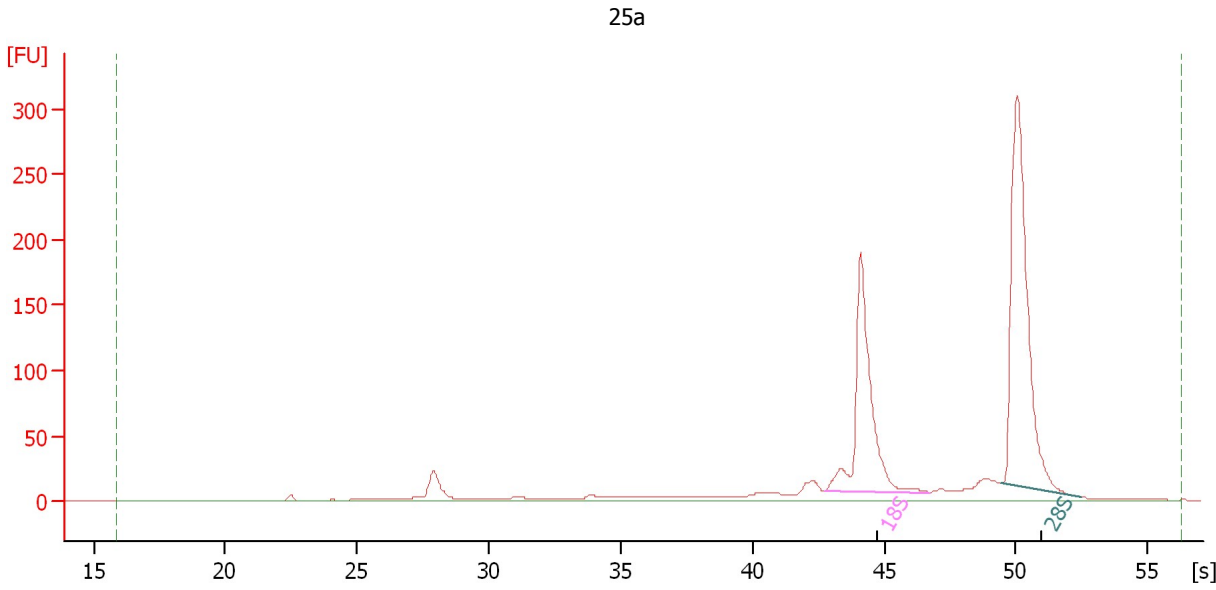
Fragment table for sample 9 : 23c

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,684	2,078	242.1	24.3
28S	2,995	3,848	513.4	51.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 25a

RNA Area:	1,044.8	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	1,114 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.70

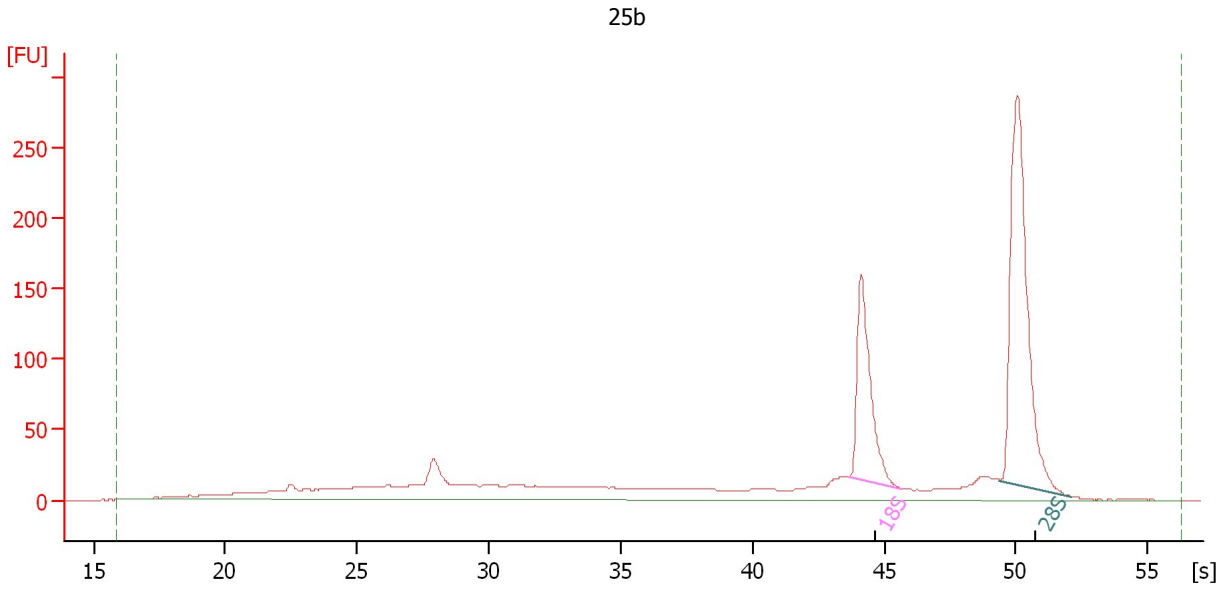
Fragment table for sample 10 : 25a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,512	2,279	271.6	26.0
28S	3,001	3,788	411.5	39.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 25b

RNA Area: 1,441.5 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 1,537 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN: 8.40

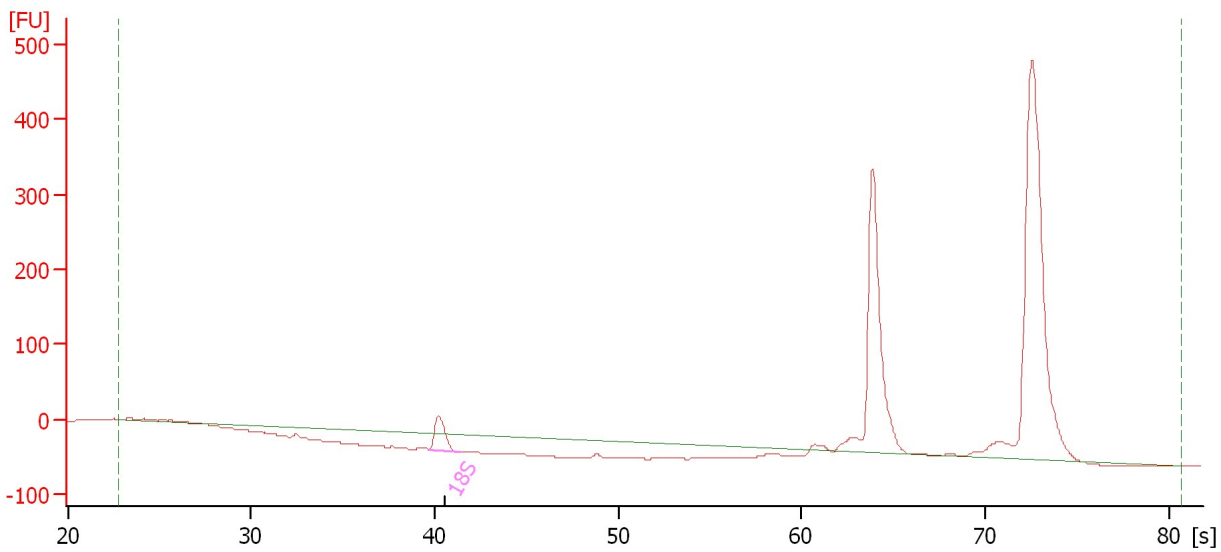
Fragment table for sample 11 : 25b

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,671	2,002	194.5	13.5
28S	2,980	3,692	398.9	27.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 :

RNA Area:	1,347.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,437 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

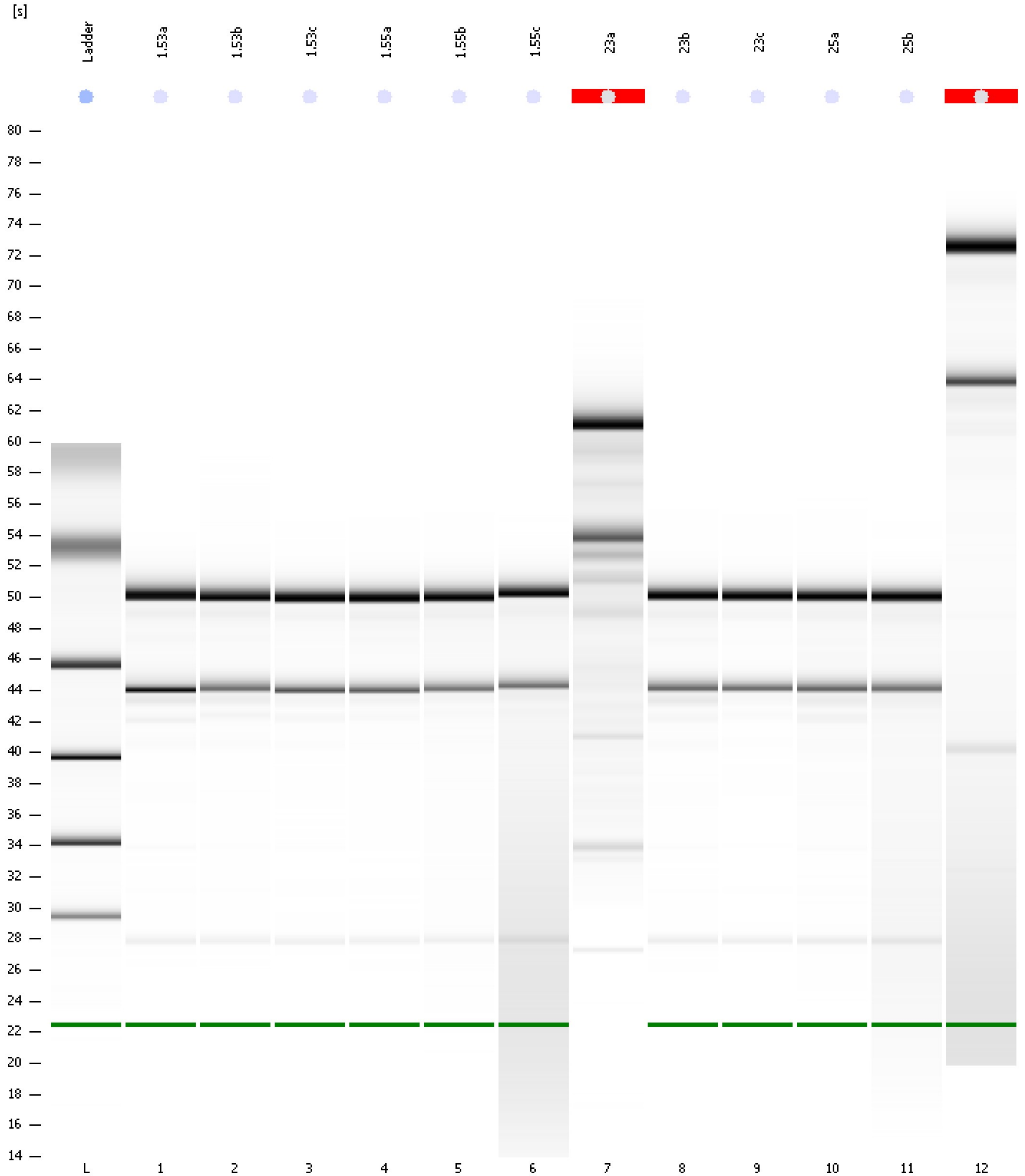
Fragment table for sample 12 :

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	999	1,295	72.2	5.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
Modified: 7/22/2014 4:05:09 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad

Created: 7/22/2014 3:41:20 PM
 Modified: 7/22/2014 4:05:09 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		7/22/2014 4:05:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_005.xad)		Instrument	Run		7/22/2014 3:41:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/22/2014 3:41:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/22/2014 3:41:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/22/2014 3:41:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/22/2014 3:41:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/22/2014 3:41:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/22/2014 3:41:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1