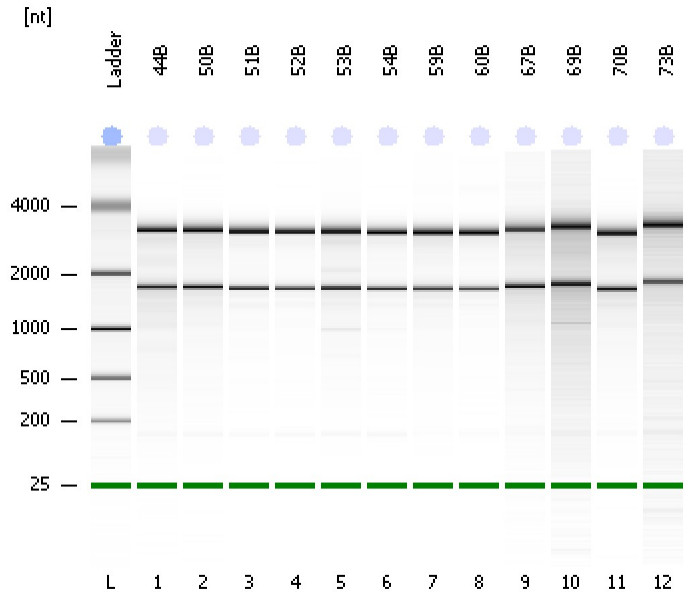


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 PM

Electrophoresis File Run Summary



Instrument Information:

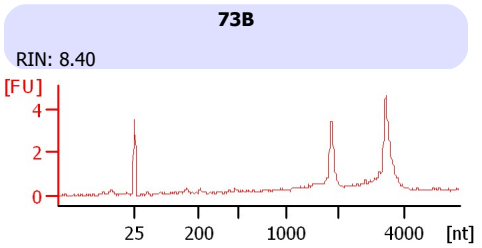
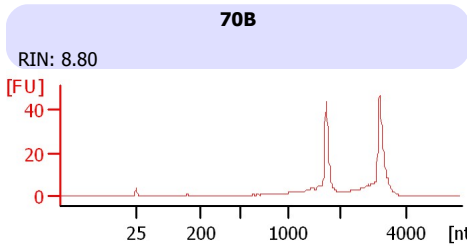
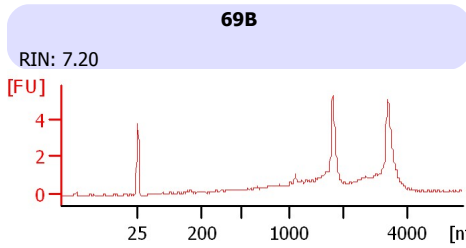
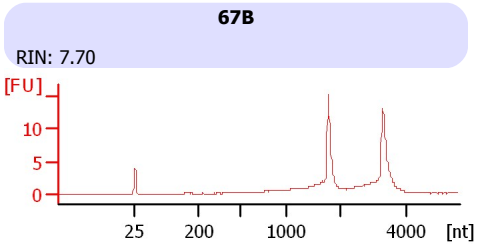
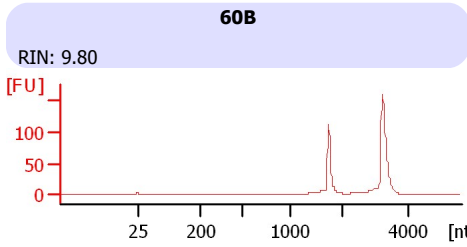
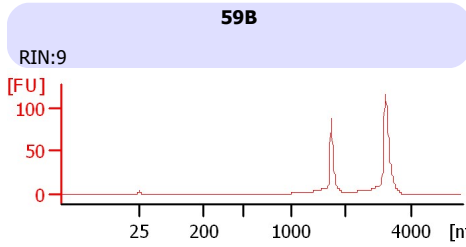
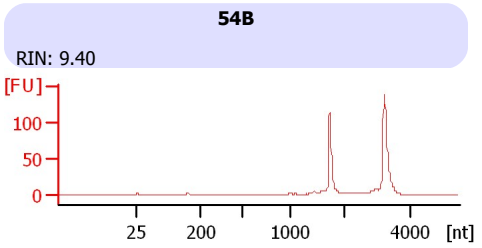
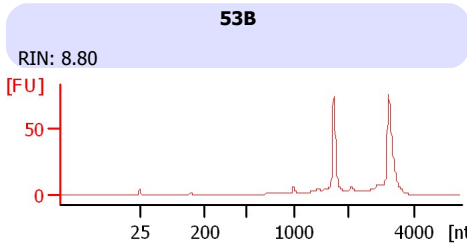
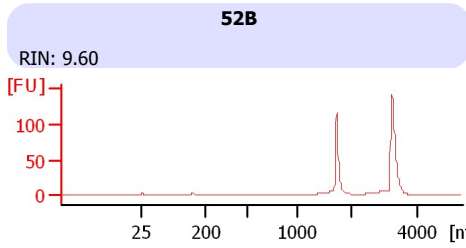
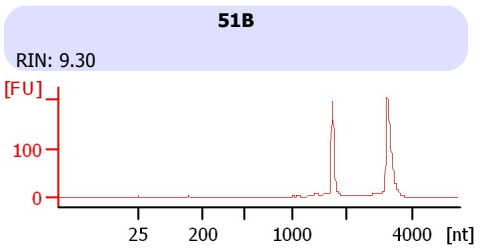
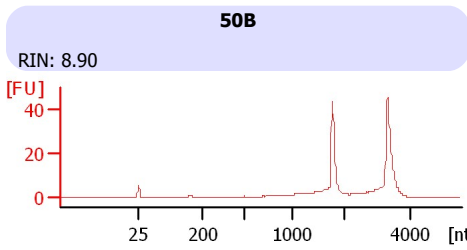
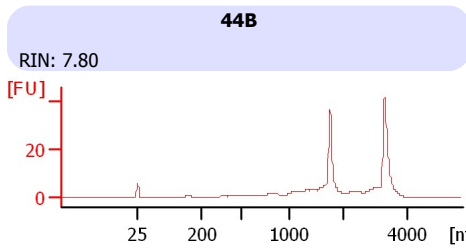
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
44B		✓	RIN: 7.80	
50B		✓	RIN: 8.90	
51B		✓	RIN: 9.30	
52B		✓	RIN: 9.60	
53B		✓	RIN: 8.80	
54B		✓	RIN: 9.40	
59B		✓	RIN:9	
60B		✓	RIN: 9.80	
67B		✓	RIN: 7.70	
69B		✓	RIN: 7.20	
70B		✓	RIN: 8.80	
73B		✓	RIN: 8.40	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 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

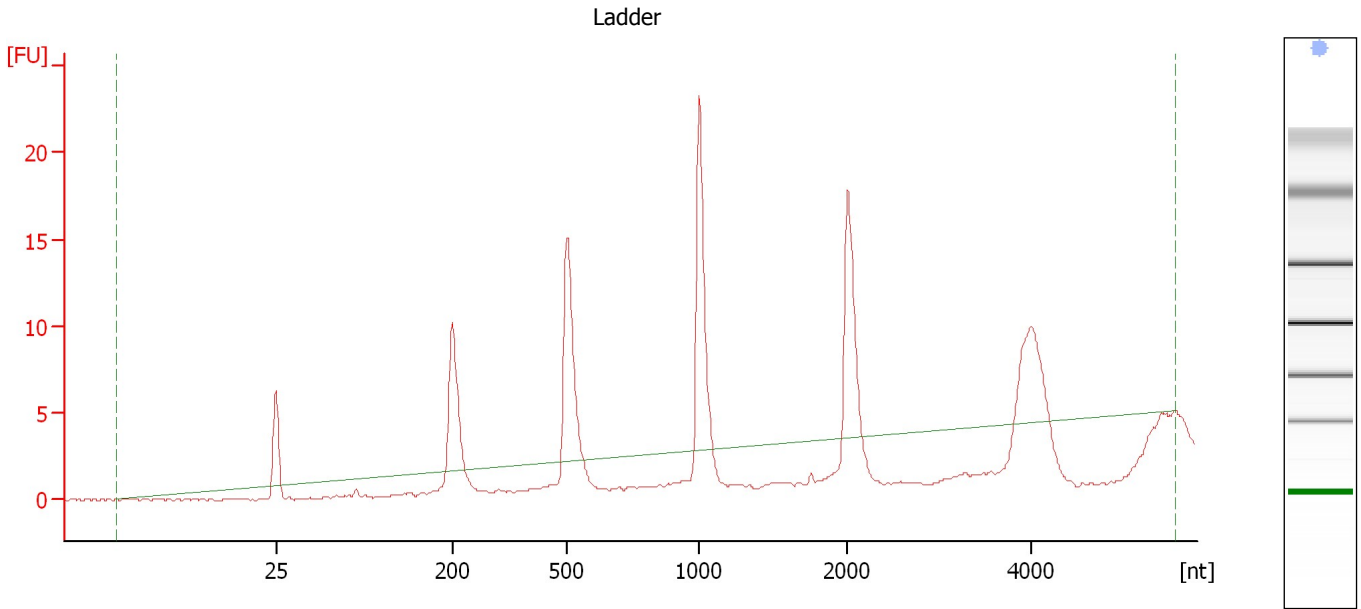
Ladder

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\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 PM

Electropherogram Summary



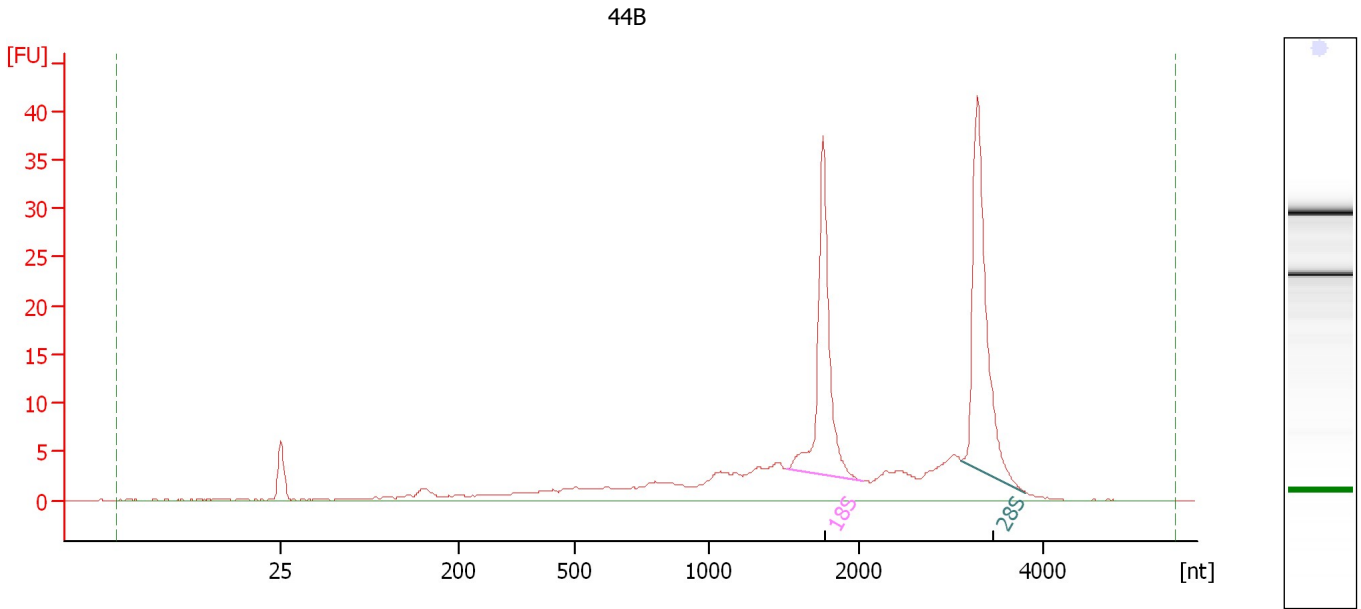
Overall Results for Ladder

RNA Area:	64.9	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 44B

RNA Area:	201.8	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	466 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.80

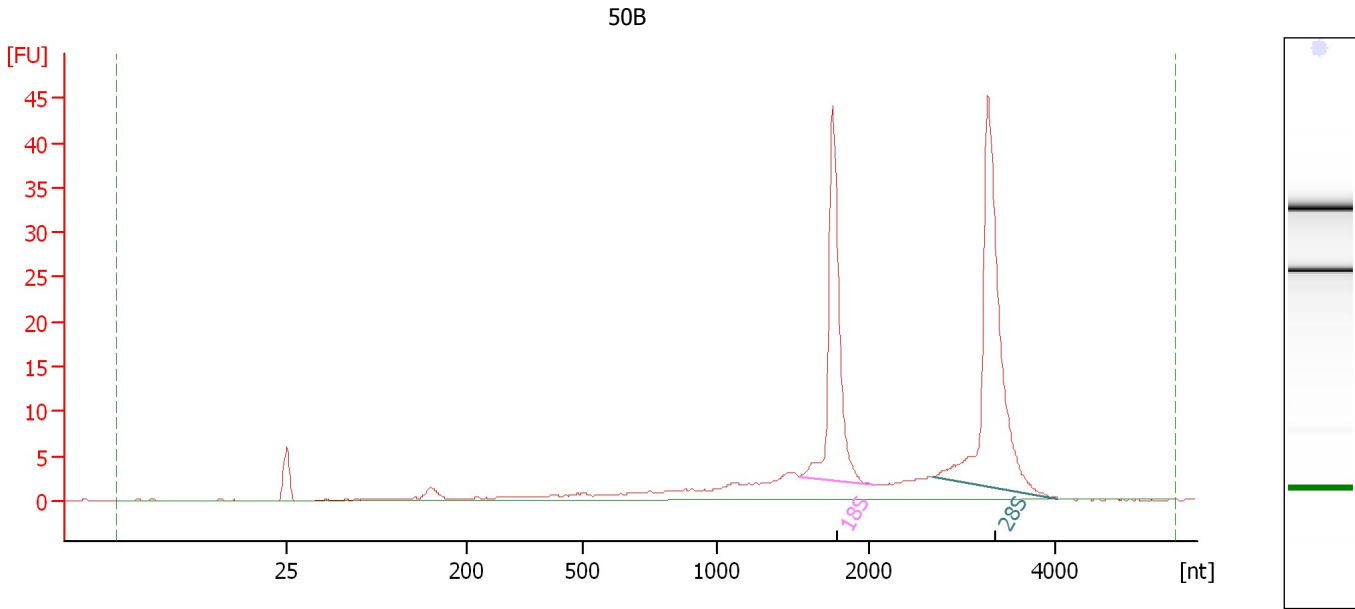
Fragment table for sample 1 : 44B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,522	2,058	39.6	19.6
28S	3,112	3,808	44.9	22.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 50B

RNA Area: 185.0 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 427 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 8.90

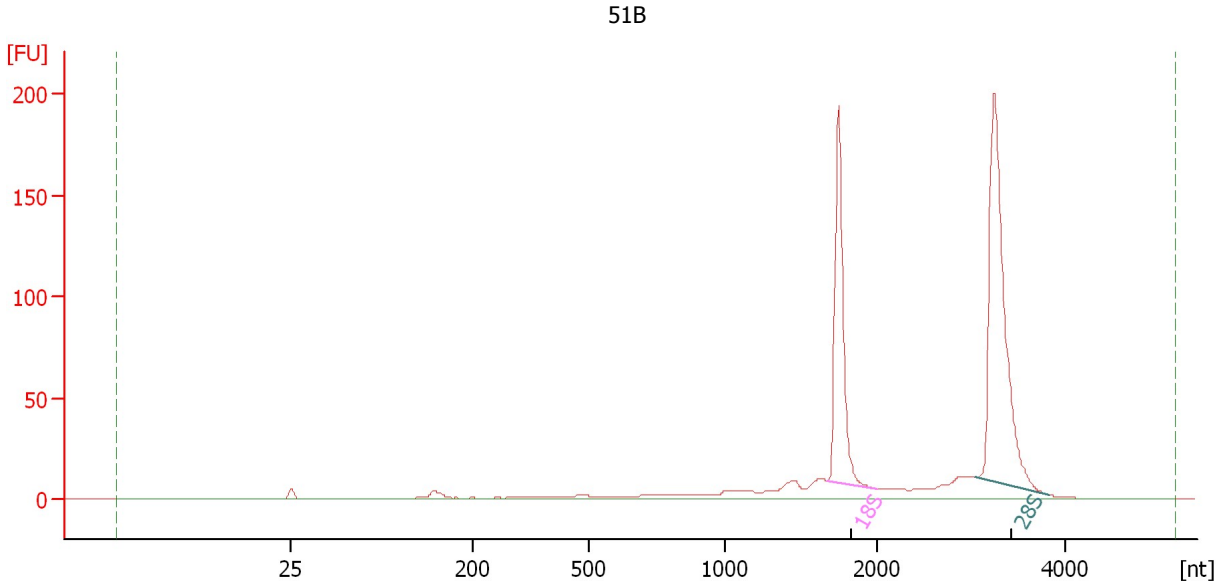
Fragment table for sample 2 : 50B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,541	2,058	44.0	23.8
28S	2,689	4,021	65.4	35.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 51B

RNA Area:	620.8	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	1,434 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.30

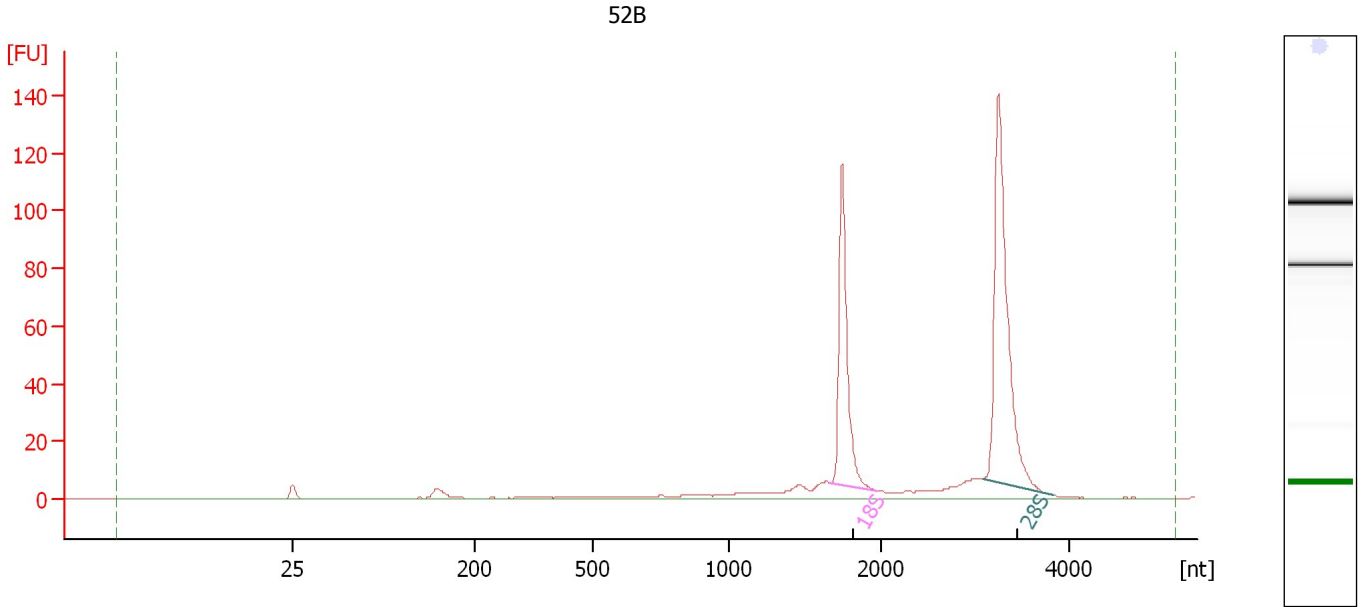
Fragment table for sample 3 : 51B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,664	2,001	151.1	24.3
28S	3,038	3,825	251.3	40.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 52B

RNA Area: 378.6 RNA Integrity Number (RIN): 9.6 (B.02.08)
RNA Concentration: 874 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.60

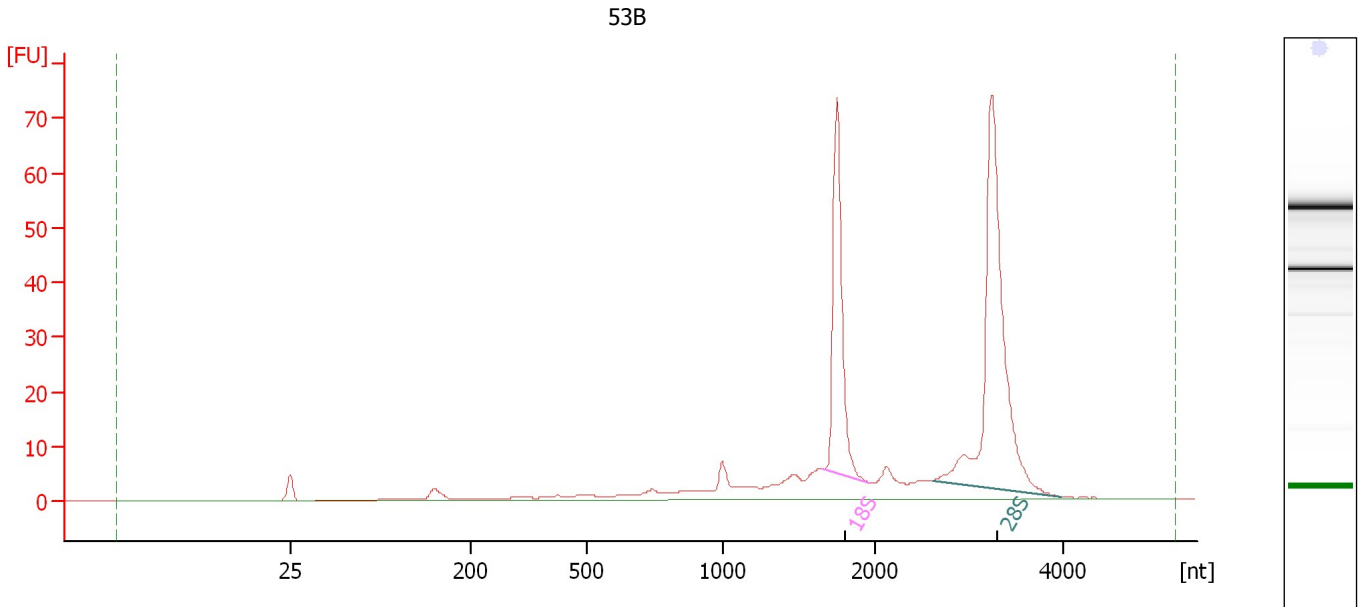
Fragment table for sample 4 : 52B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,658	1,965	94.0	24.8
28S	3,080	3,830	153.3	40.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
 Modified: 2/24/2012 12:51:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 53B

RNA Area:	293.6	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	678 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 8.80

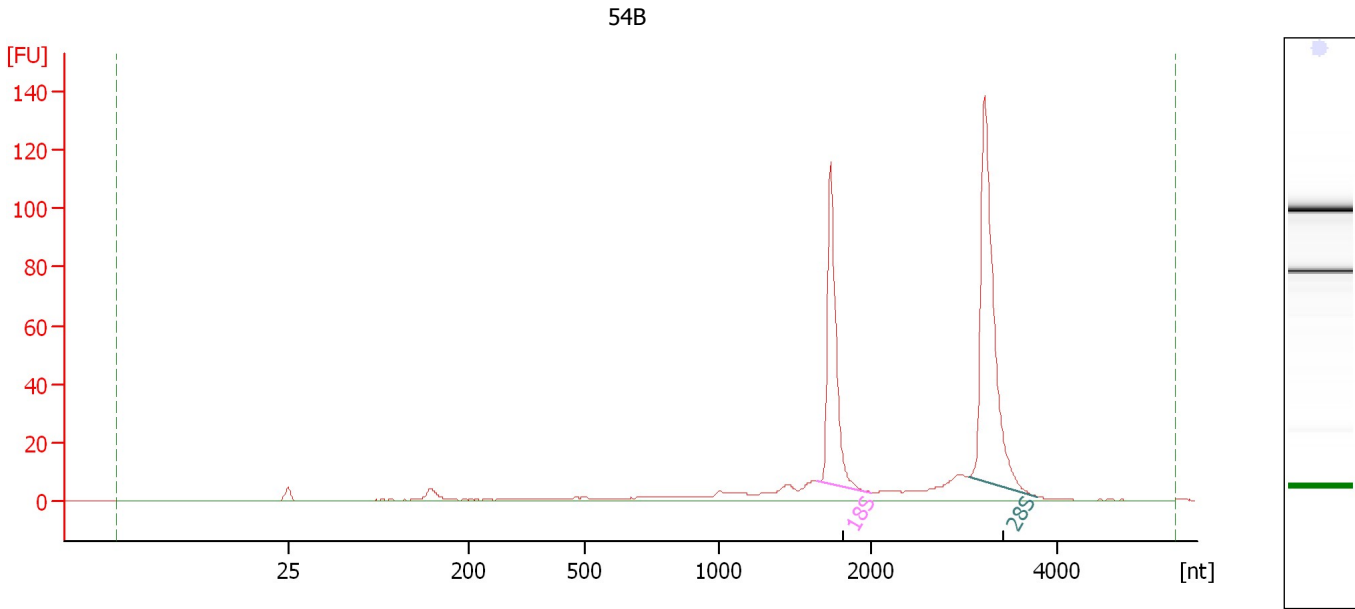
Fragment table for sample 5 : 53B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	1,951	59.9	20.4
28S	2,606	3,988	114.4	39.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 54B

RNA Area: 398.1 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 919 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.40

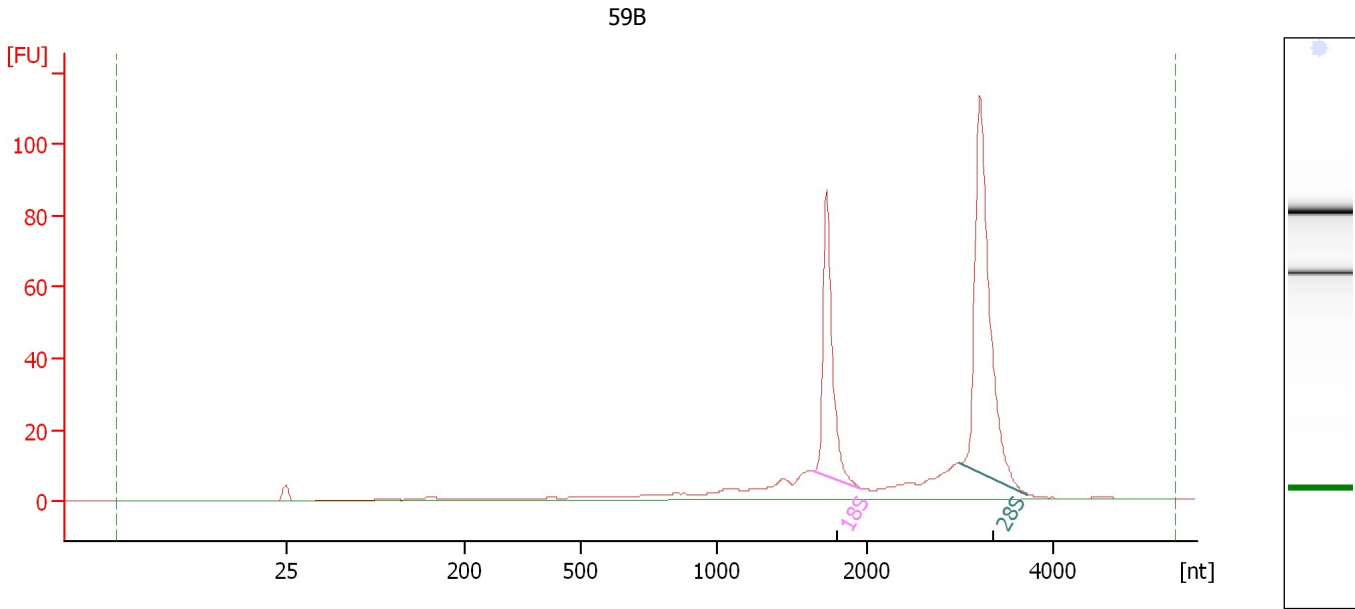
Fragment table for sample 6 : 54B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	2,000	94.0	23.6
28S	3,043	3,789	151.9	38.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 59B

RNA Area: 371.6 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 858 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN:9

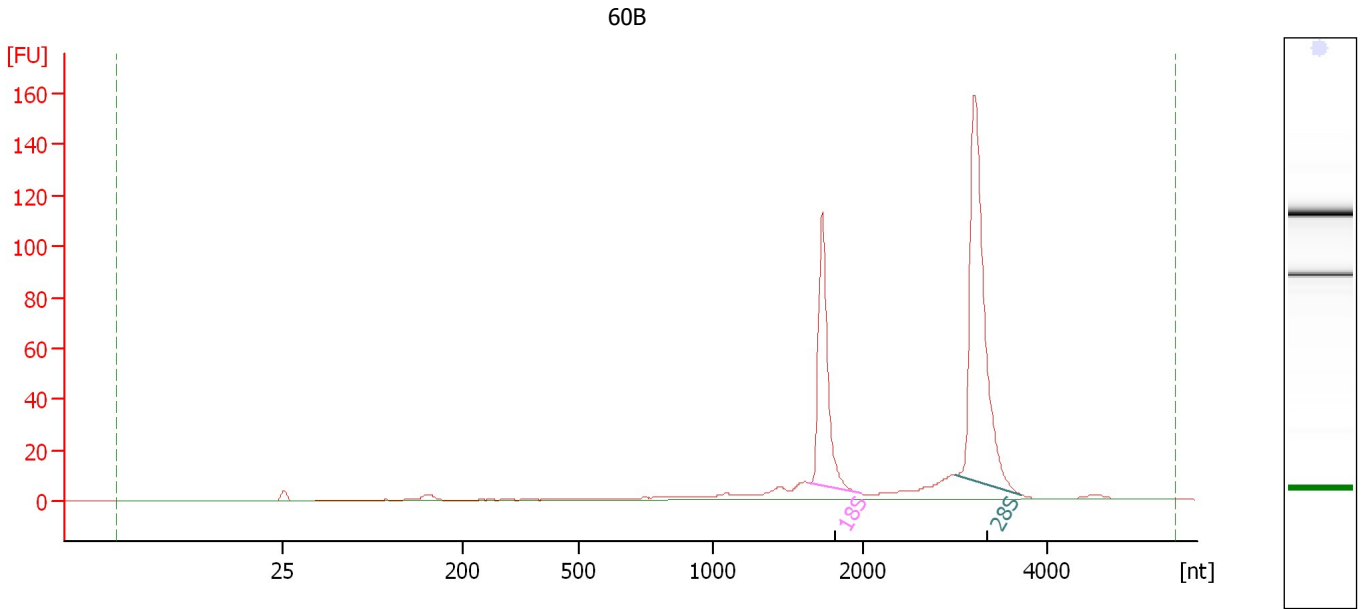
Fragment table for sample 7 : 59B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	1,958	77.4	20.8
28S	3,001	3,726	137.0	36.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
 Modified: 2/24/2012 12:51:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 60B

RNA Area:	420.1	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	970 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.80

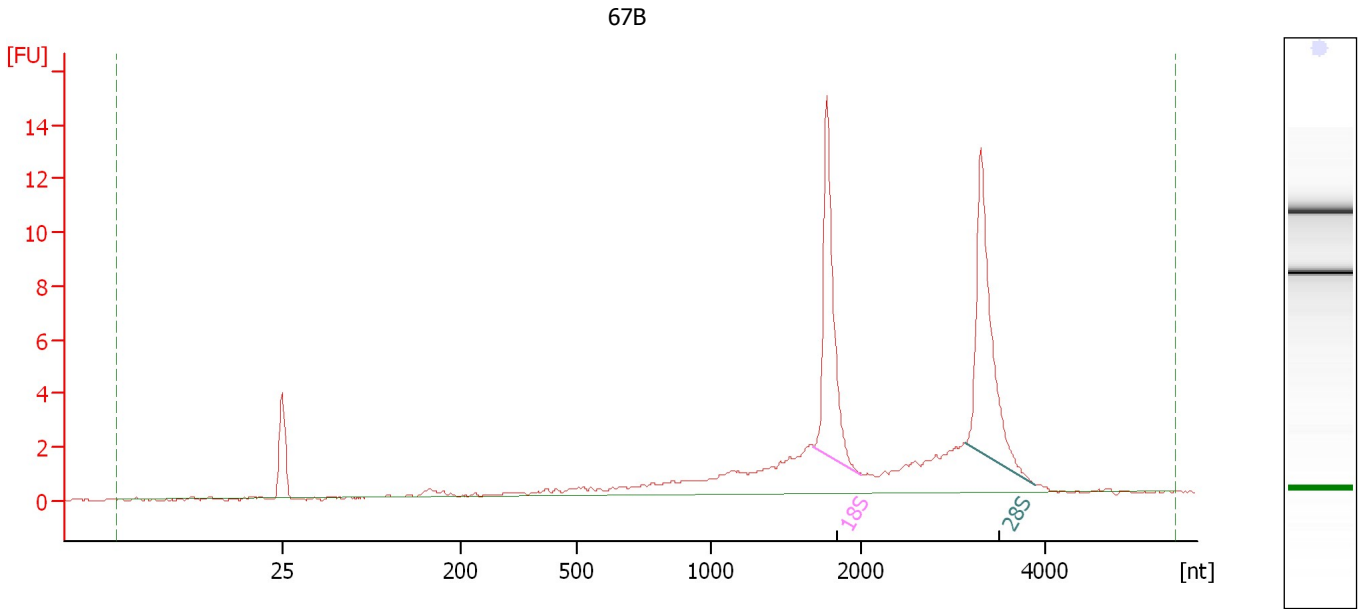
Fragment table for sample 8 : 60B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,645	1,986	101.1	24.1
28S	3,005	3,720	192.6	45.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 67B

RNA Area: 69.0 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 159 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 7.70

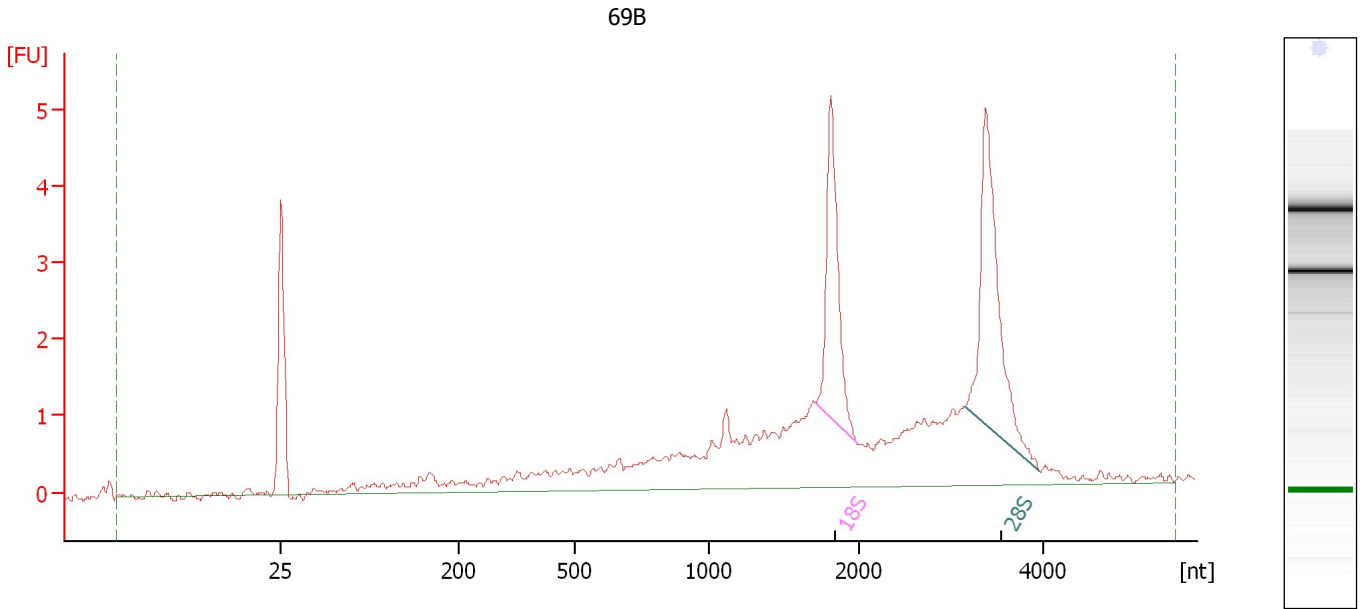
Fragment table for sample 9 : 67B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,687	2,012	13.5	19.6
28S	3,134	3,897	14.7	21.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 69B

RNA Area:	42.5	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	98 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.20

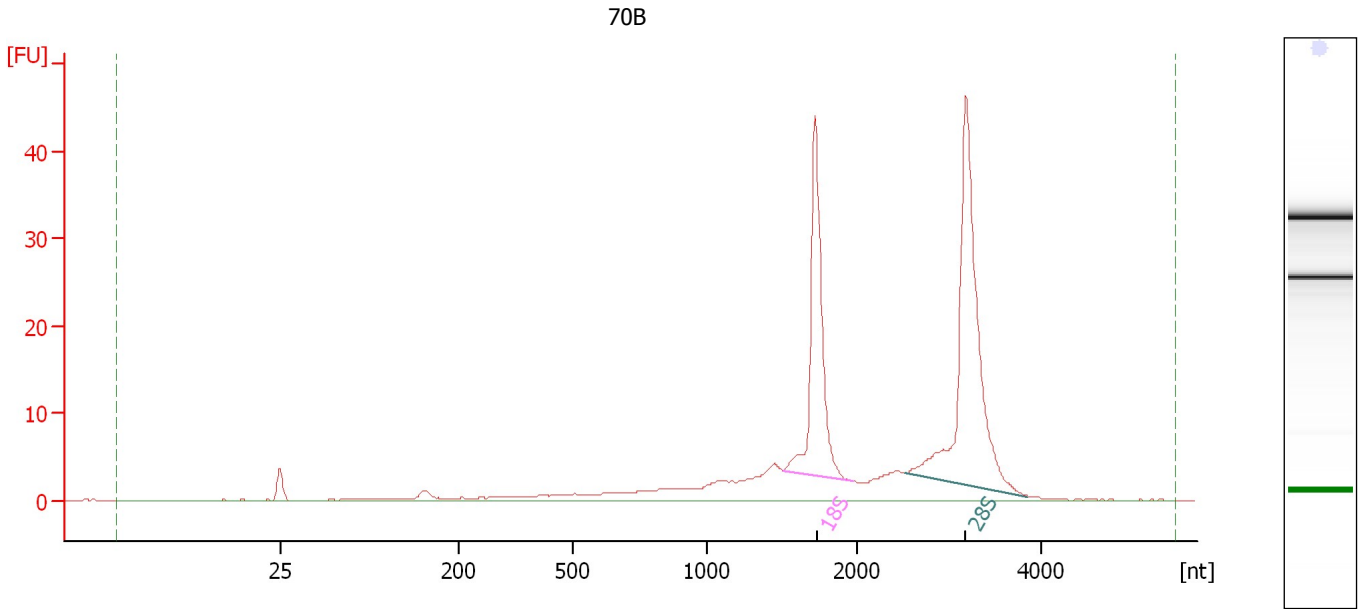
Fragment table for sample 10 : 69B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,715	1,986	4.8	11.4
28S	3,147	3,958	6.6	15.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
 Modified: 2/24/2012 12:51:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 70B

RNA Area:	214.8	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	496 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.80

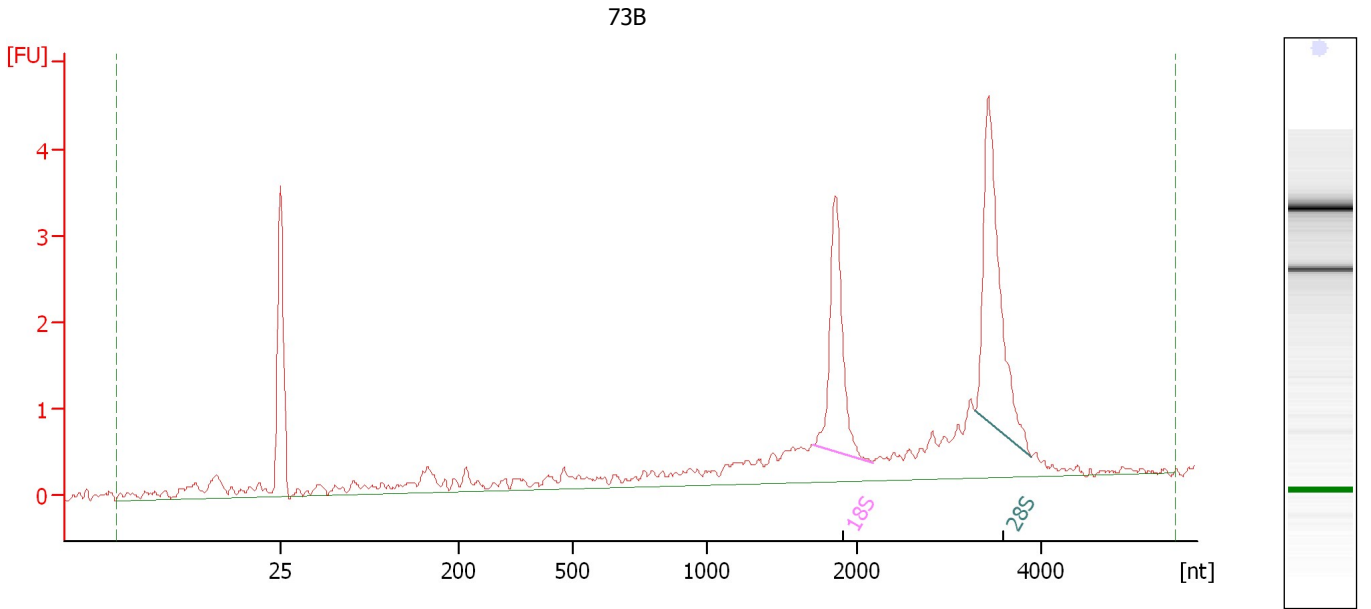
Fragment table for sample 11 : 70B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,514	1,971	46.4	21.6
28S	2,522	3,857	74.1	34.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 73B

RNA Area: 28.0 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 65 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 8.40

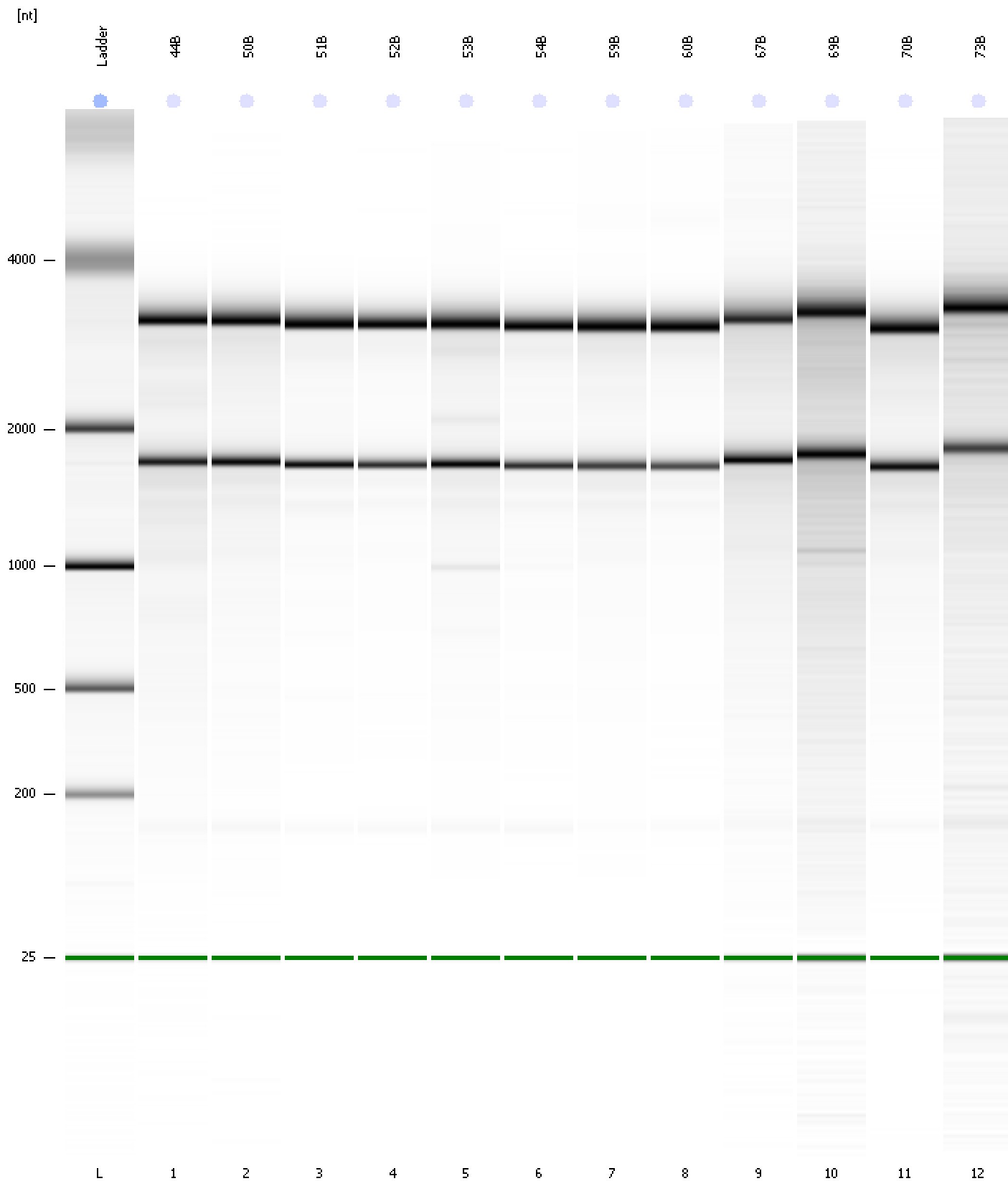
Fragment table for sample 12 : 73B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,707	2,174	3.7	13.3
28S	3,289	3,892	5.4	19.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 PM

Gel Image

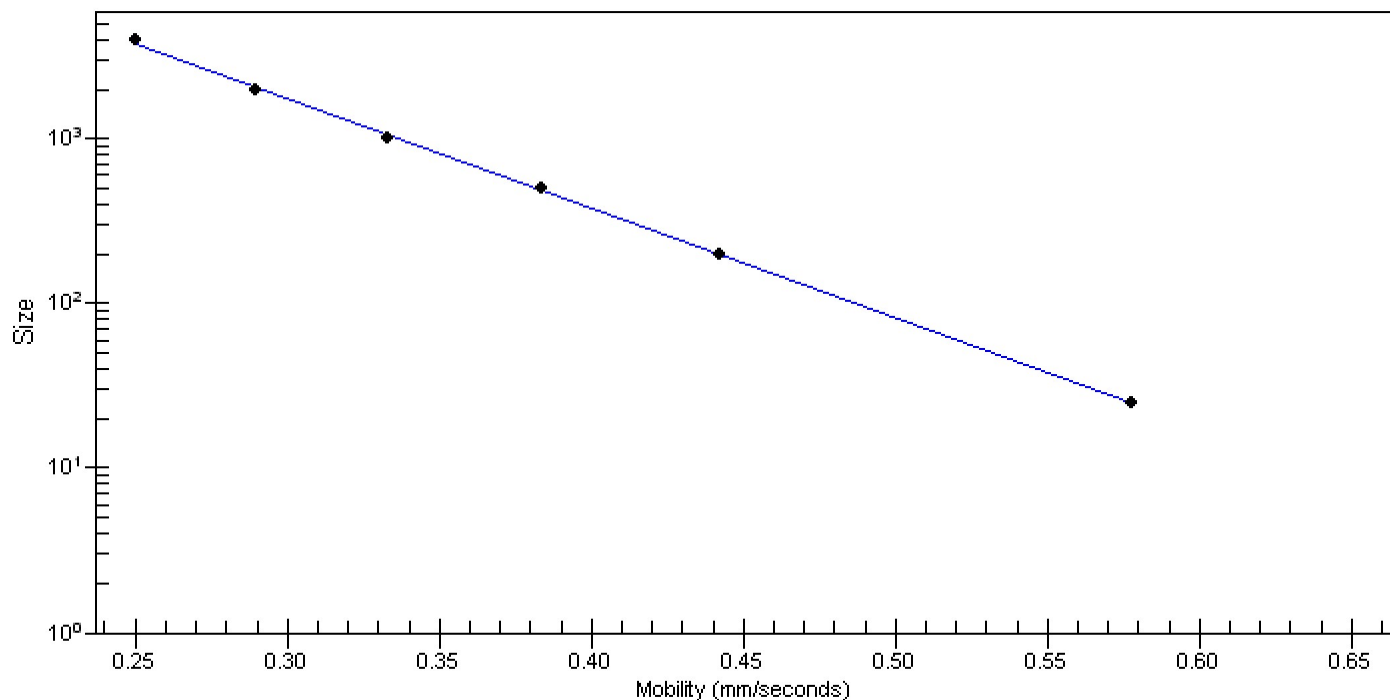


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
Modified: 2/24/2012 12:51:20 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad

Created: 2/24/2012 12:28:15 PM
 Modified: 2/24/2012 12:51:20 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		2/24/2012 12:51:17 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-02-24\2012-02-24_003.xad)		Instrument	Run		2/24/2012 12:28:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/24/2012 12:28:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/24/2012 12:28:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/24/2012 12:28:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/24/2012 12:28:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/24/2012 12:28:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/24/2012 12:28:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1