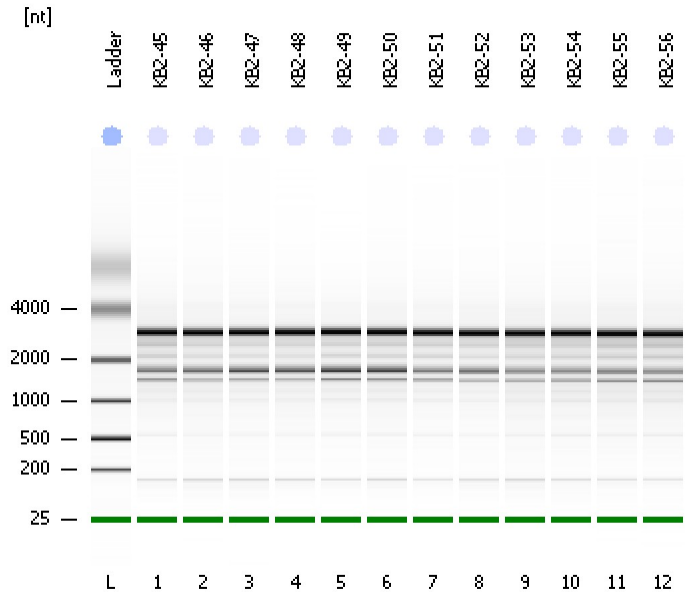


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
Modified: 3/27/2014 11:46:37 AM

Electrophoresis File Run Summary



Instrument Information:

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

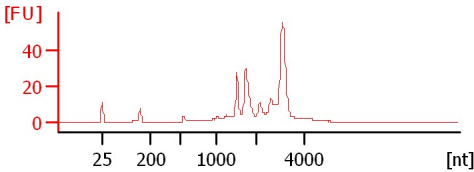
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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.

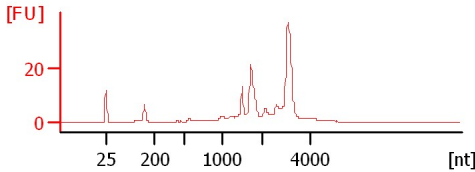
Chip Information:

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

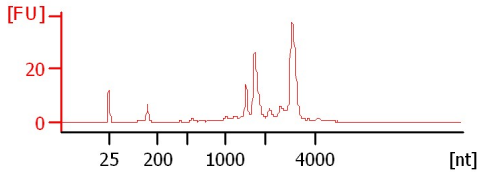
KB2-45
RIN: 8.20



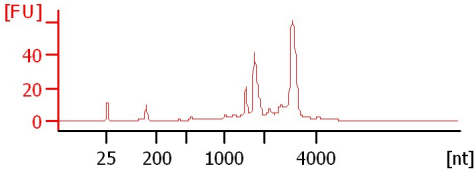
KB2-46
RIN: 8.40



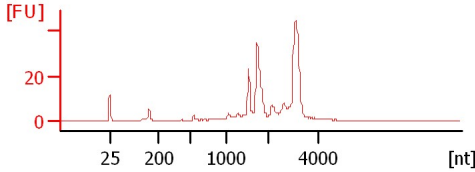
KB2-47
RIN: 8.40



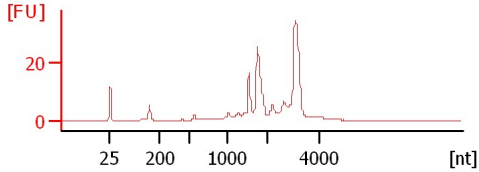
KB2-48
RIN: 8.40



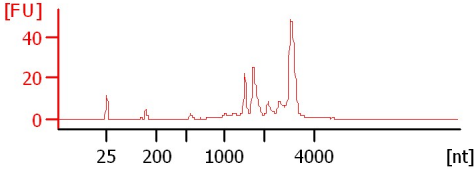
KB2-49
RIN: 8.20



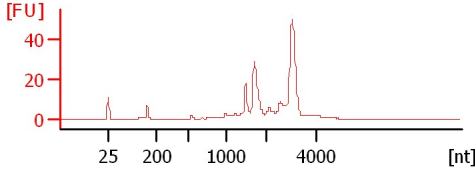
KB2-50
RIN: 8.20



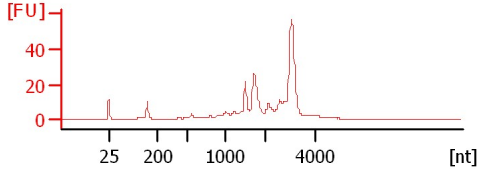
KB2-51
RIN: 8.40



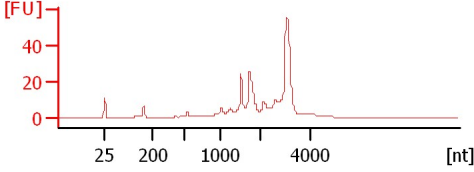
KB2-52
RIN: 8.50



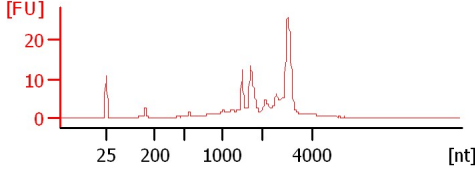
KB2-53
RIN: 8.10



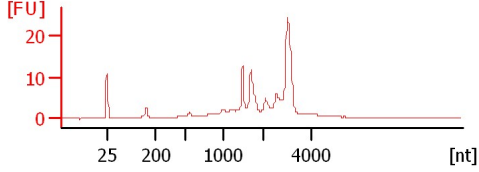
KB2-54
RIN: 8.10



KB2-55
RIN: 8.10



KB2-56
RIN: 7.90



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
 Modified: 3/27/2014 11:46:37 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
KB2-45		✓	RIN: 8.20	
KB2-46		✓	RIN: 8.40	
KB2-47		✓	RIN: 8.40	
KB2-48		✓	RIN: 8.40	
KB2-49		✓	RIN: 8.20	
KB2-50		✓	RIN: 8.20	
KB2-51		✓	RIN: 8.40	
KB2-52		✓	RIN: 8.50	
KB2-53		✓	RIN: 8.10	
KB2-54		✓	RIN: 8.10	
KB2-55		✓	RIN: 8.10	
KB2-56		✓	RIN: 7.90	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
Modified: 3/27/2014 11:46:37 AM

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

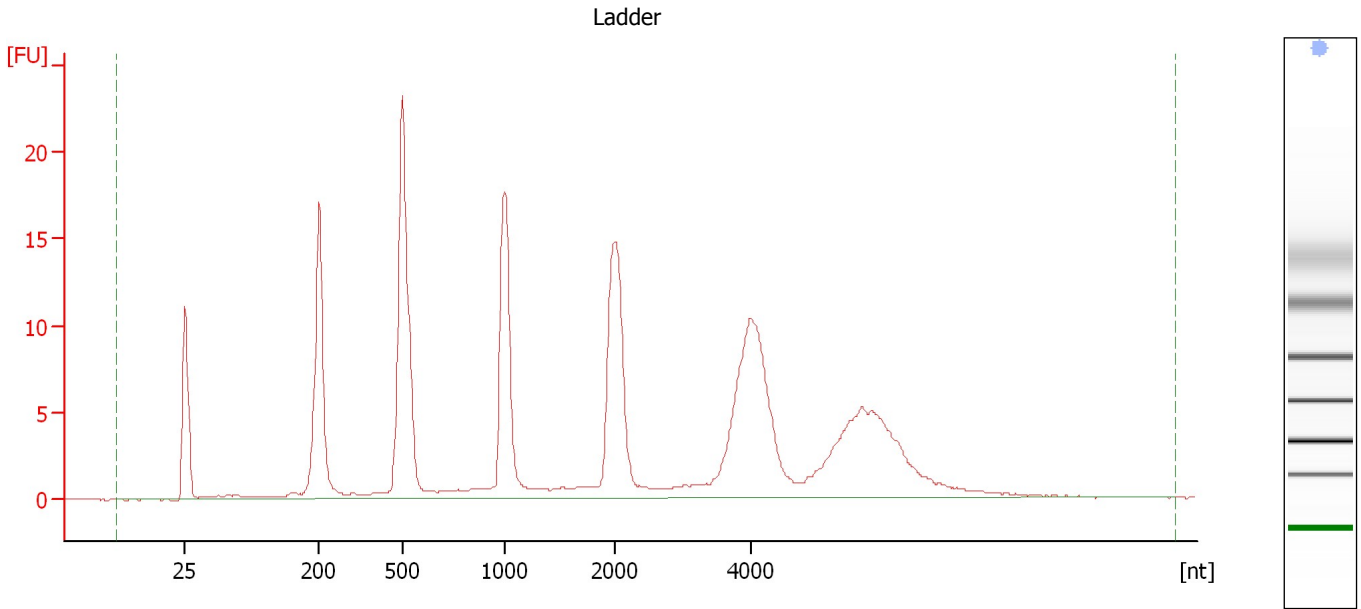
Ladder

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\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
Modified: 3/27/2014 11:46:37 AM

Electropherogram Summary



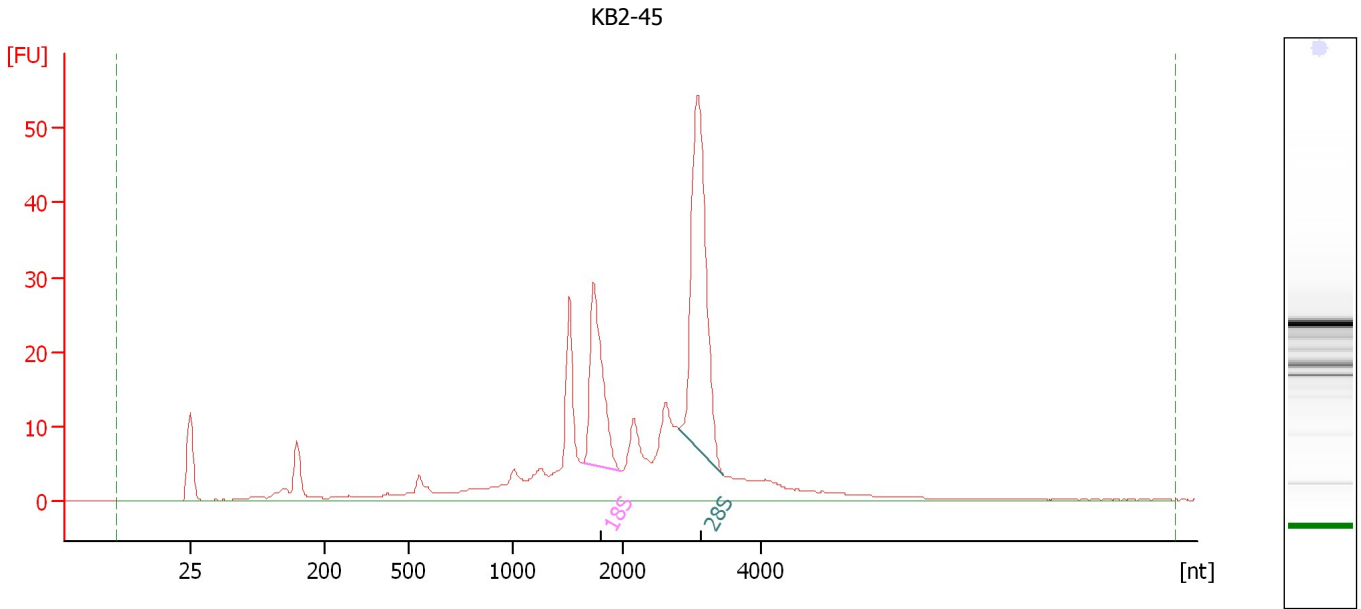
Overall Results for Ladder

RNA Area:	212.5	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\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
Modified: 3/27/2014 11:46:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : KB2-45

RNA Area:	344.7	RNA Integrity Number (RIN):	8.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	243 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 8.20

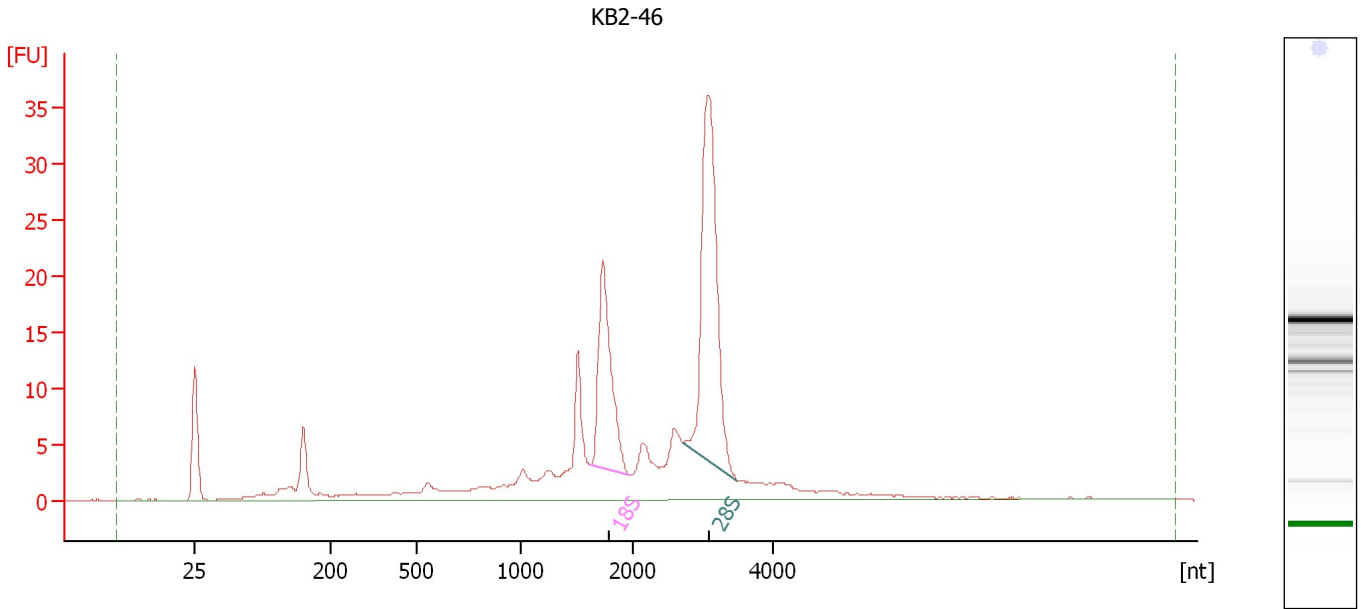
Fragment table for sample 1 : KB2-45

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,638	1,985	39.7	11.5
28S	2,797	3,463	80.4	23.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
Modified: 3/27/2014 11:46:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : KB2-46

RNA Area:	215.8	RNA Integrity Number (RIN):	8.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	152 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 8.40

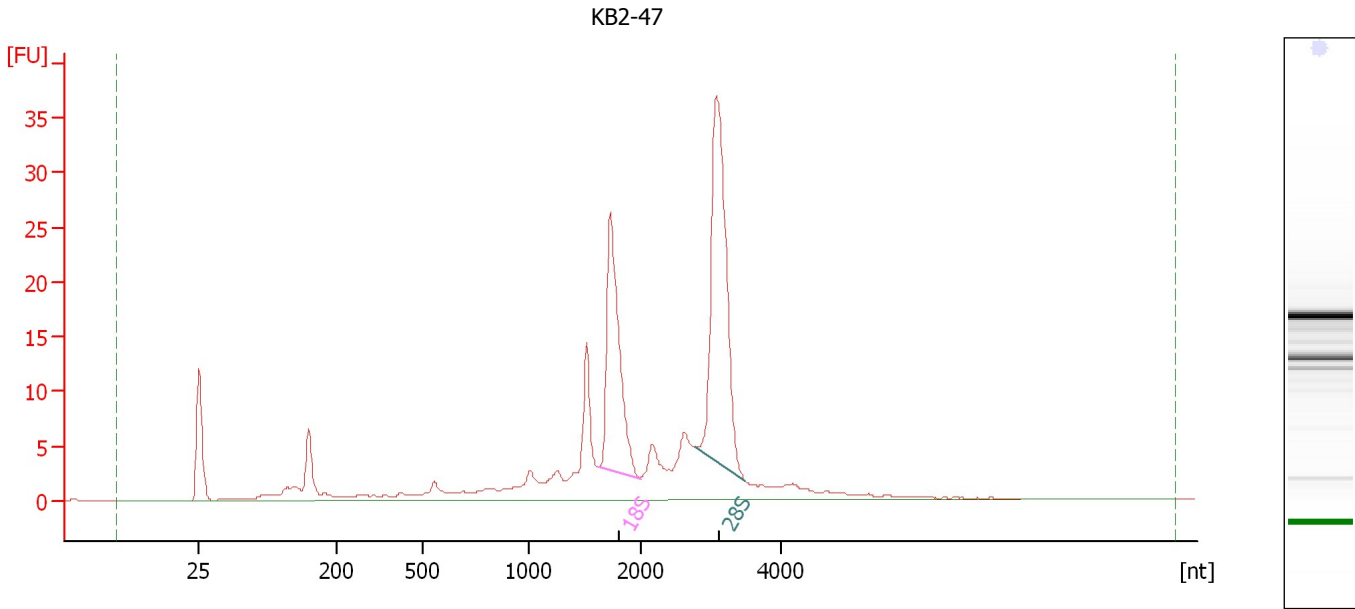
Fragment table for sample 2 : KB2-46

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	1,971	29.4	13.6
28S	2,720	3,501	56.4	26.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
 Modified: 3/27/2014 11:46:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : KB2-47

RNA Area:	216.1	RNA Integrity Number (RIN):	8.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	153 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.40

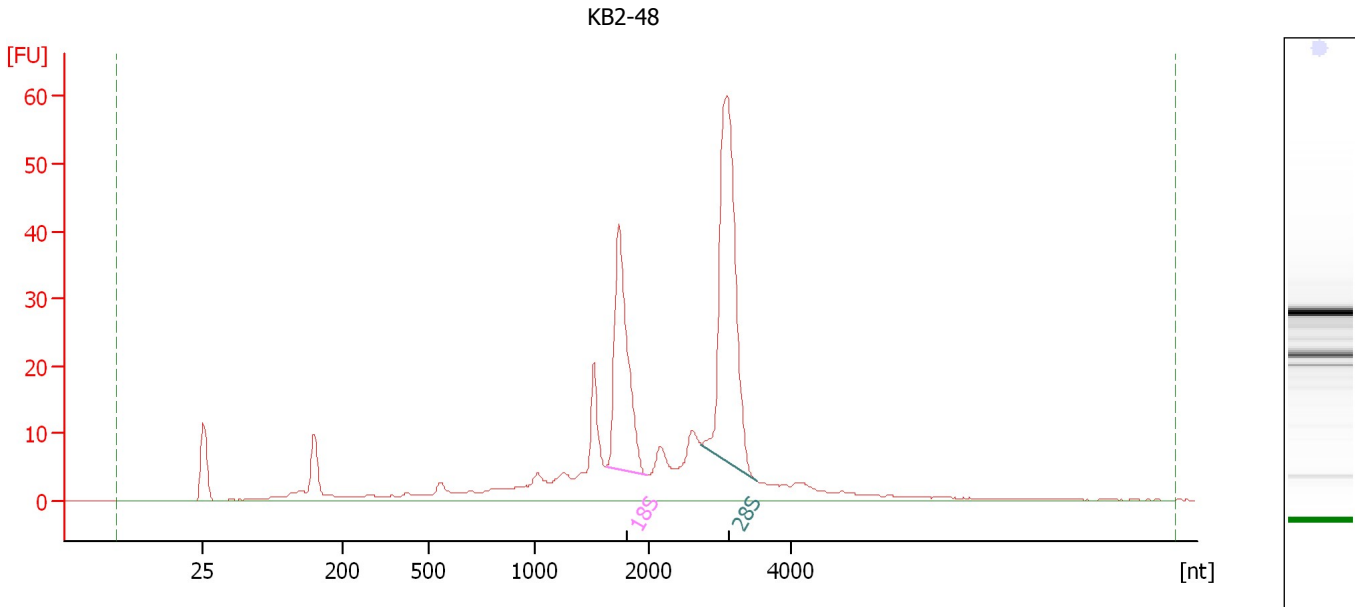
Fragment table for sample 3 : KB2-47

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	1,995	36.4	16.8
28S	2,766	3,480	57.9	26.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
 Modified: 3/27/2014 11:46:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : KB2-48

RNA Area:	364.5	RNA Integrity Number (RIN):	8.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	257 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.40

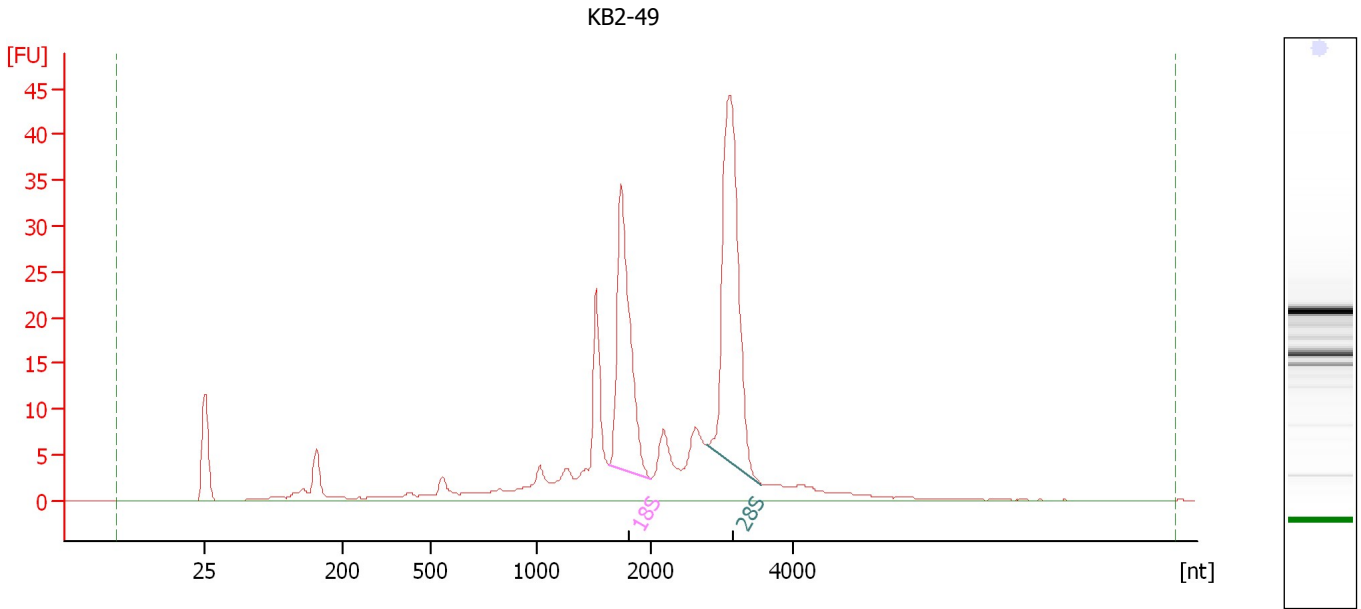
Fragment table for sample 4 : KB2-48

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	1,971	57.7	15.8
28S	2,737	3,520	96.4	26.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
Modified: 3/27/2014 11:46:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : KB2-49

RNA Area:	273.5	RNA Integrity Number (RIN):	8.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	193 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.20

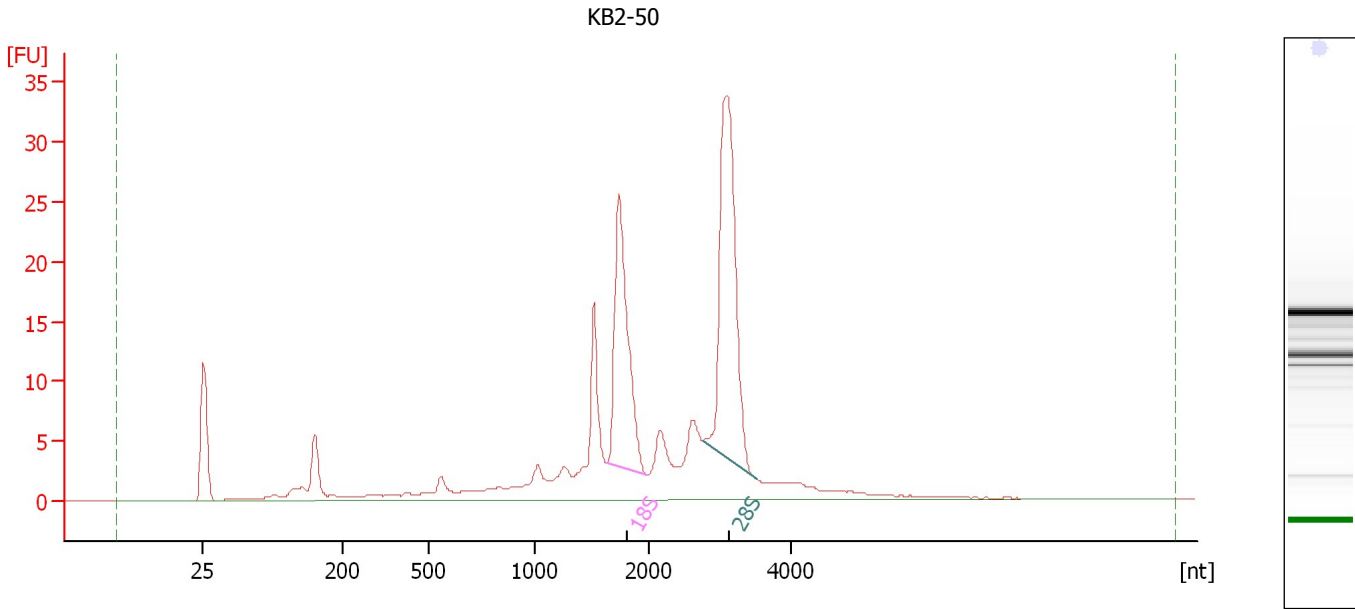
Fragment table for sample 5 : KB2-49

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	1,991	49.1	18.0
28S	2,782	3,548	71.0	26.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
 Modified: 3/27/2014 11:46:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : KB2-50

RNA Area:	219.4	RNA Integrity Number (RIN):	8.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	155 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.20

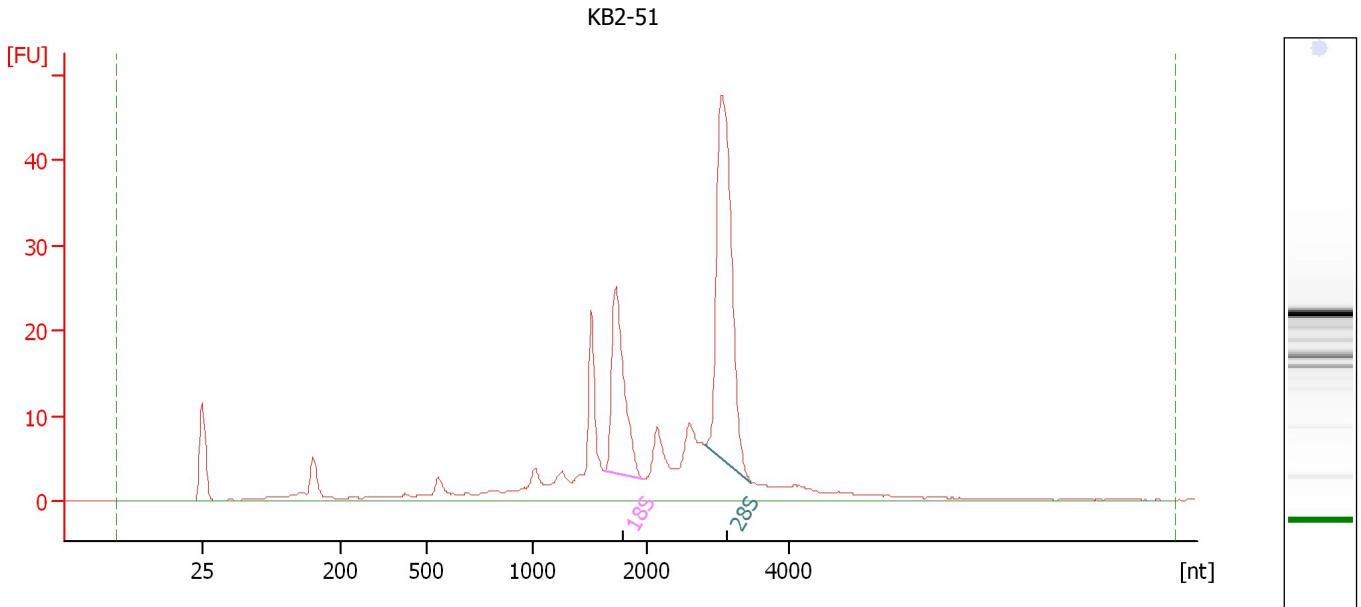
Fragment table for sample 6 : KB2-50

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	1,980	36.8	16.8
28S	2,752	3,505	53.3	24.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
Modified: 3/27/2014 11:46:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : KB2-51

RNA Area:	265.3	RNA Integrity Number (RIN):	8.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	187 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 8.40

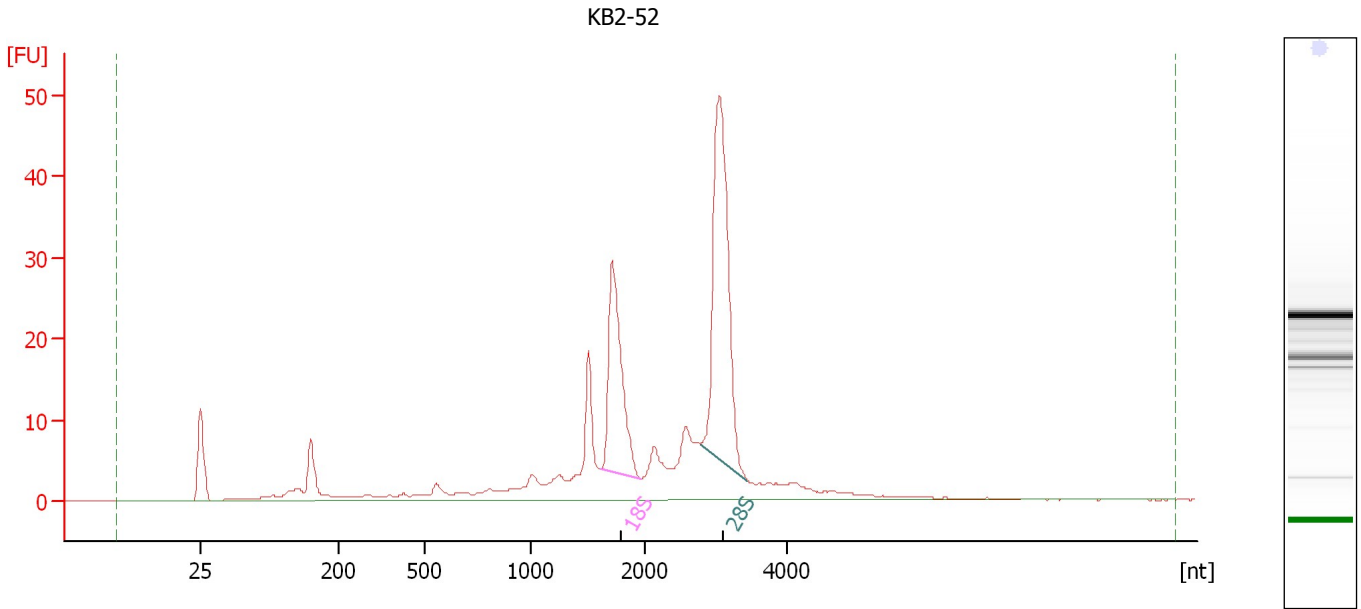
Fragment table for sample 7 : KB2-51

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,632	1,960	33.5	12.6
28S	2,812	3,476	73.0	27.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
Modified: 3/27/2014 11:46:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : KB2-52

RNA Area:	281.8	RNA Integrity Number (RIN):	8.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	199 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.50

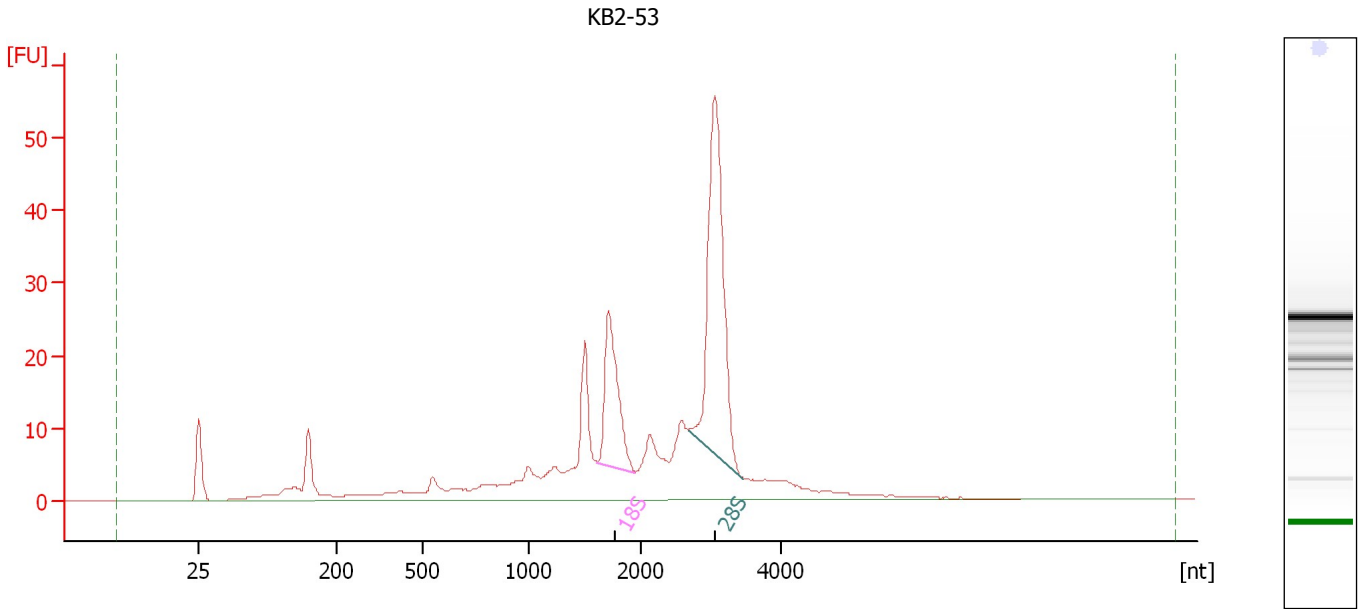
Fragment table for sample 8 : KB2-52

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,612	1,959	41.5	14.7
28S	2,782	3,447	76.7	27.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
 Modified: 3/27/2014 11:46:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : KB2-53

RNA Area:	349.4	RNA Integrity Number (RIN):	8.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	247 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN: 8.10

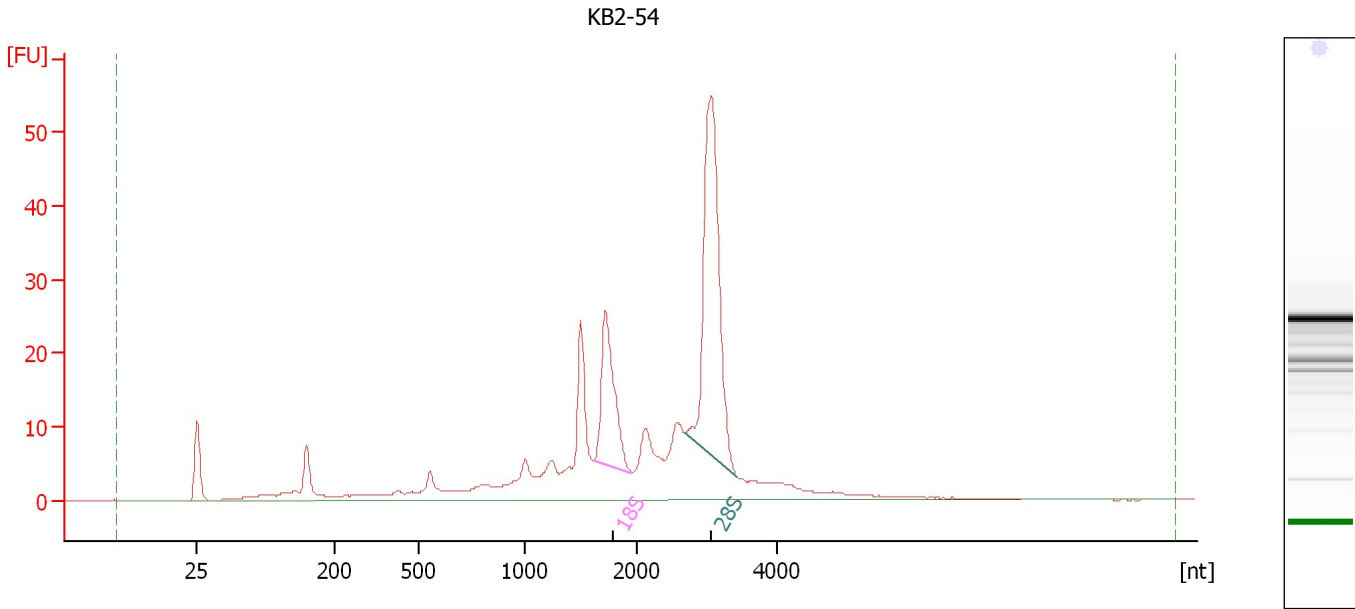
Fragment table for sample 9 : KB2-53

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,617	1,947	34.7	9.9
28S	2,675	3,450	84.3	24.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
Modified: 3/27/2014 11:46:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : KB2-54

RNA Area:	334.0	RNA Integrity Number (RIN):	8.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	236 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN: 8.10

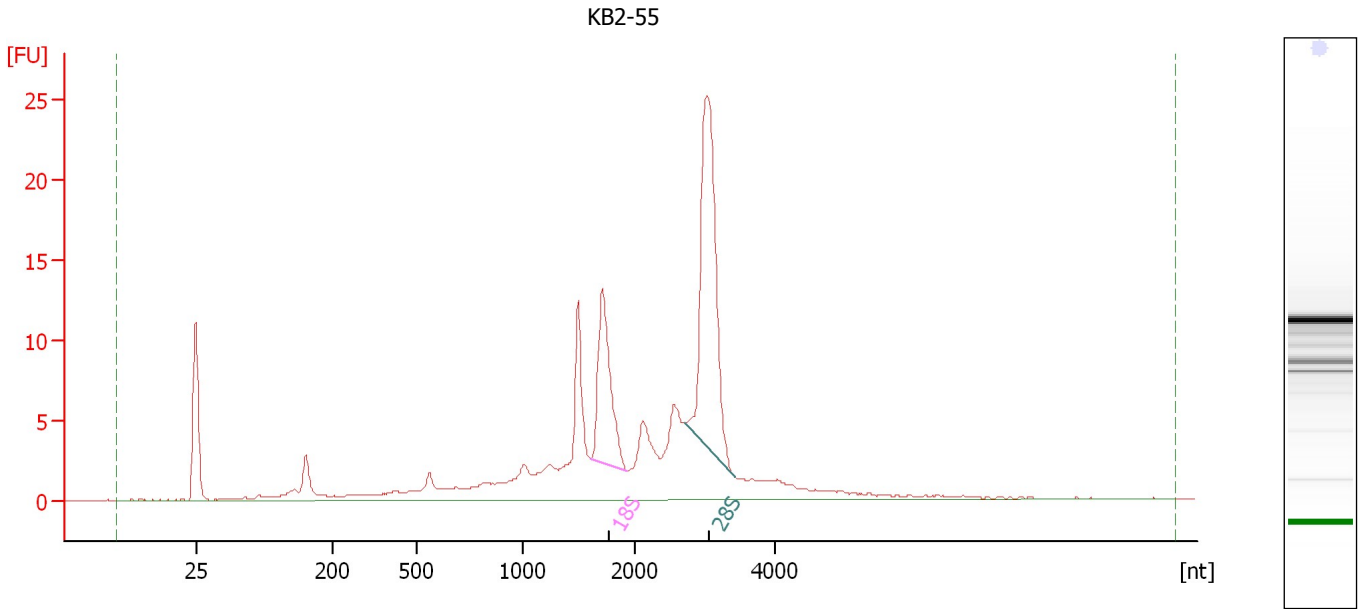
Fragment table for sample 10 : KB2-54

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,623	1,945	33.8	10.1
28S	2,690	3,437	84.8	25.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
Modified: 3/27/2014 11:46:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : KB2-55

RNA Area:	162.8	RNA Integrity Number (RIN):	8.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	115 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN: 8.10

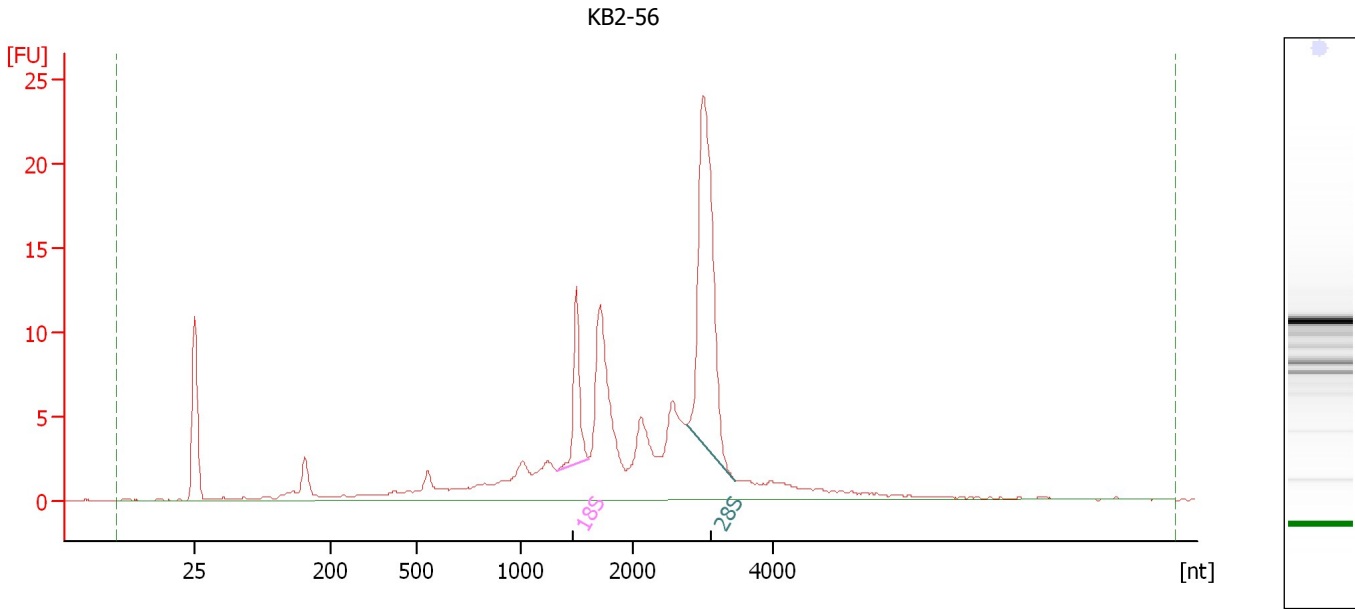
Fragment table for sample 11 : KB2-55

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,925	16.6	10.2
28S	2,720	3,424	37.6	23.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
Modified: 3/27/2014 11:46:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : KB2-56

RNA Area:	158.0	RNA Integrity Number (RIN):	7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	112 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	4.2	Result Flagging Label:	RIN: 7.90

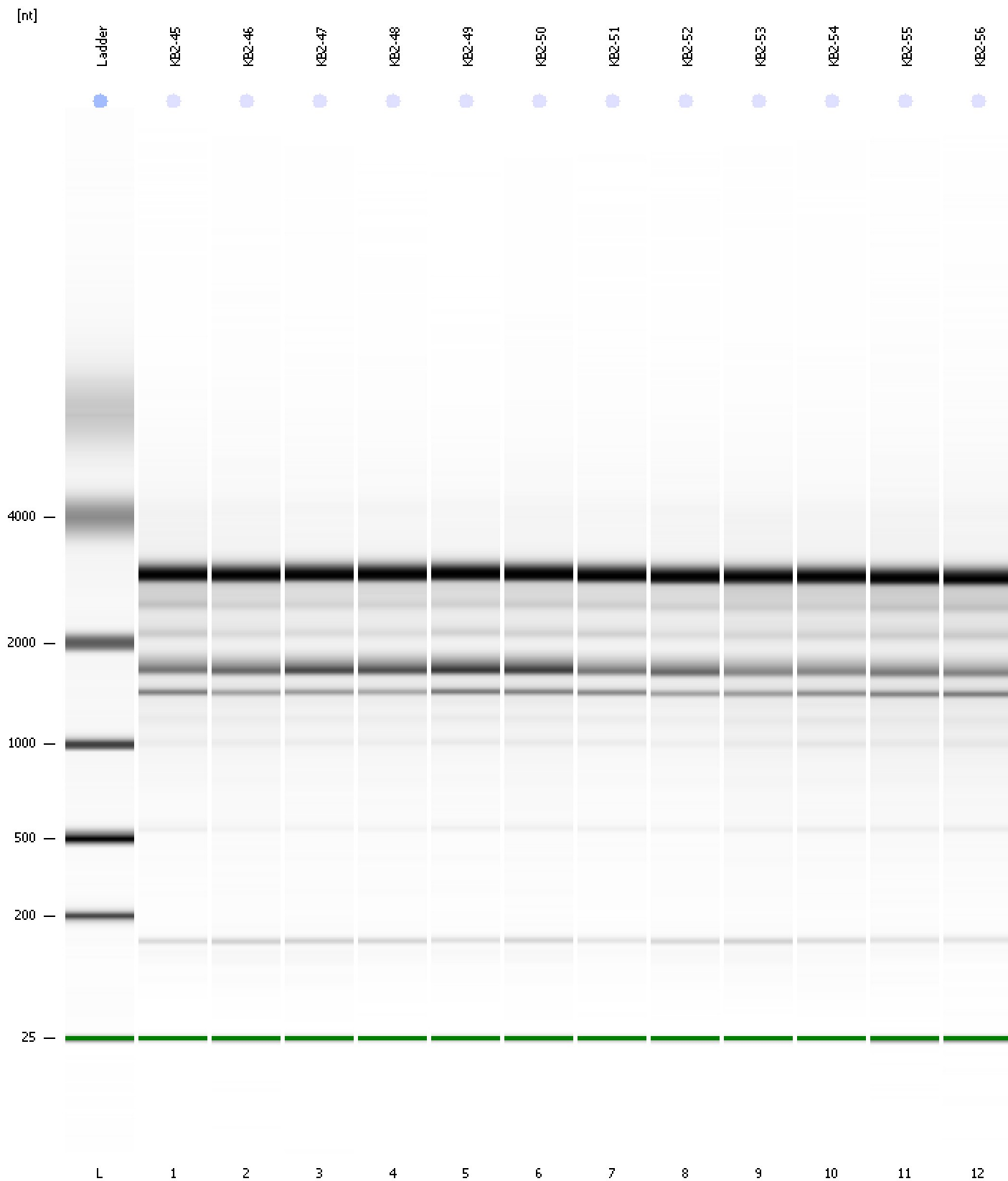
Fragment table for sample 12 : KB2-56

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,324	1,600	8.2	5.2
28S	2,766	3,455	34.9	22.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
Modified: 3/27/2014 11:46:37 AM

Gel Image

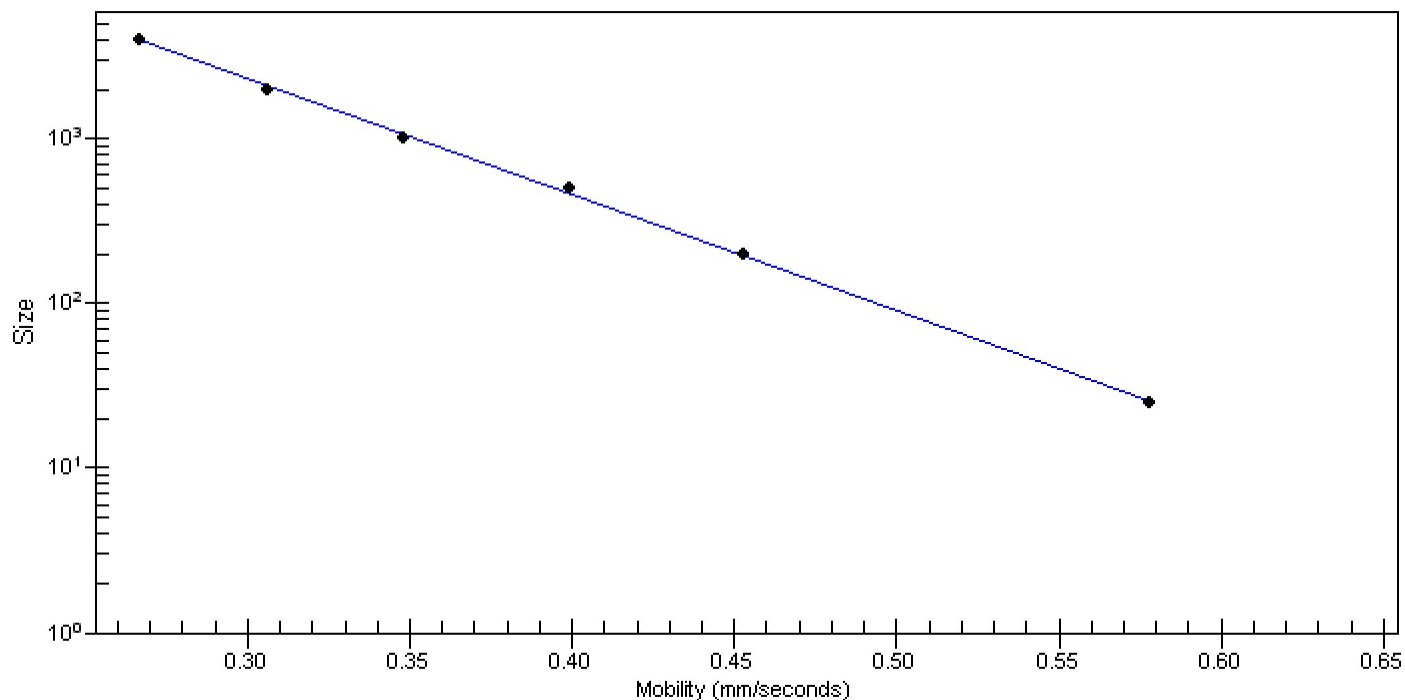


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
Modified: 3/27/2014 11:46:37 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad

Created: 3/27/2014 10:42:46 AM
 Modified: 3/27/2014 11:46:37 AM

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		3/27/2014 11:05:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-03-27\2014-03-27_002.xad)		Instrument	Run		3/27/2014 10:42:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/27/2014 10:42:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/27/2014 10:42:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/27/2014 10:42:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/27/2014 10:42:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/27/2014 10:42:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/27/2014 10:42:51 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1