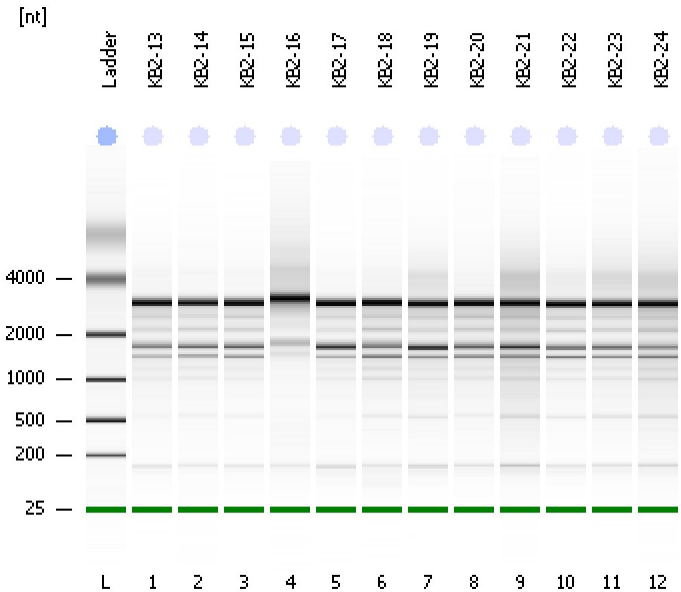


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
Modified: 3/25/2014 10:06:20 AM

Electrophoresis File Run Summary



Instrument Information:

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

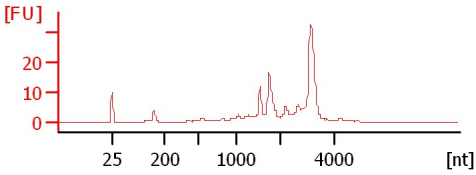
Assay Information:

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

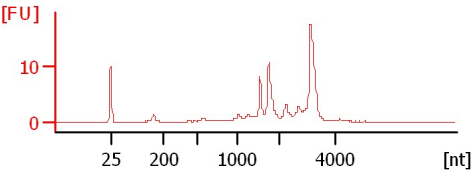
Chip Information:

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

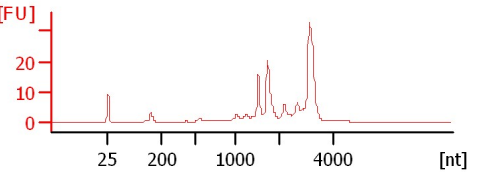
KB2-13
RIN: 8.20



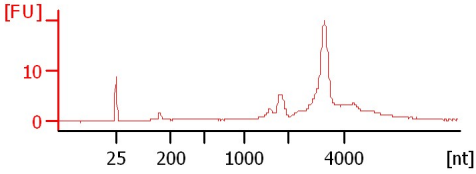
KB2-14
RIN: 8.20



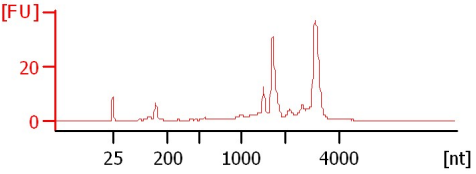
KB2-15
RIN: 8.20



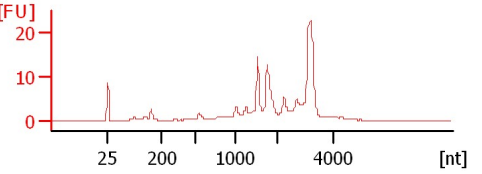
KB2-16
RIN: 8.30



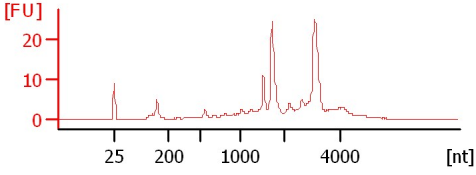
KB2-17
RIN: 8.20



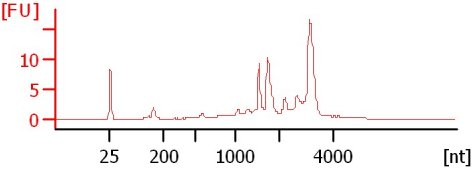
KB2-18
RIN: 8



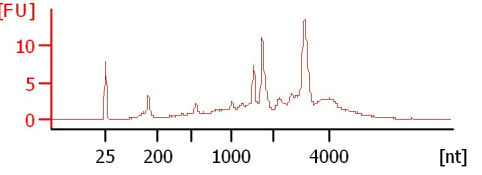
KB2-19
RIN: 7.50



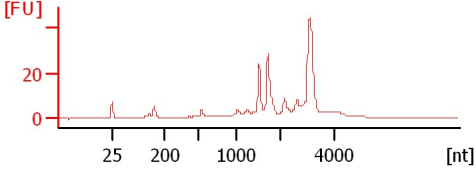
KB2-20
RIN: 7.90



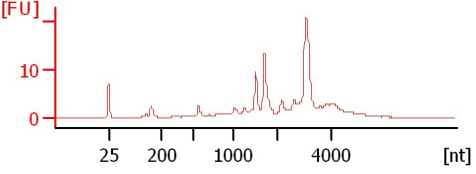
KB2-21
RIN: 6.80



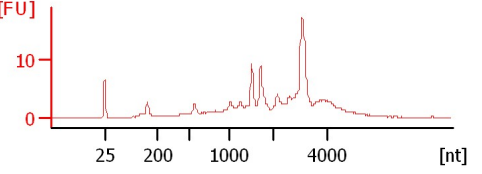
KB2-22
RIN: 7.90



KB2-23
RIN: 7.70



KB2-24
RIN: 6.70



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
 Modified: 3/25/2014 10:06:20 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
KB2-13		✓	RIN: 8.20	
KB2-14		✓	RIN: 8.20	
KB2-15		✓	RIN: 8.20	
KB2-16		✓	RIN: 8.30	
KB2-17		✓	RIN: 8.20	
KB2-18		✓	RIN:8	
KB2-19		✓	RIN: 7.50	
KB2-20		✓	RIN: 7.90	
KB2-21		✓	RIN: 6.80	
KB2-22		✓	RIN: 7.90	
KB2-23		✓	RIN: 7.70	
KB2-24		✓	RIN: 6.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
Modified: 3/25/2014 10:06:20 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

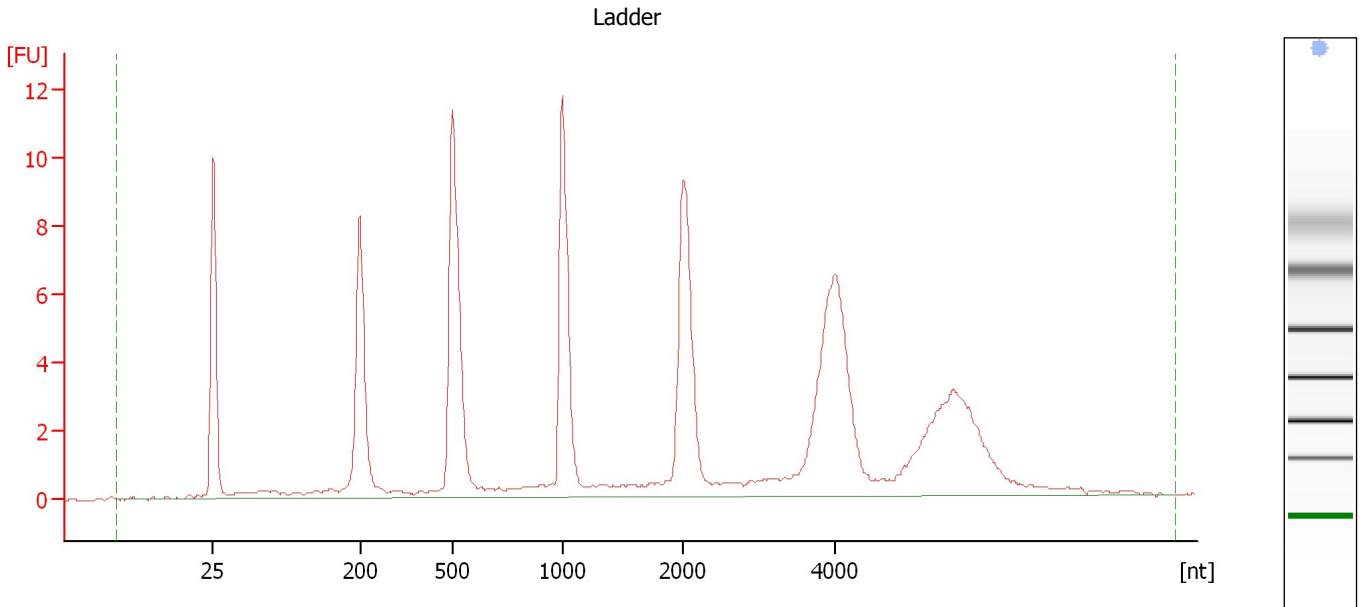
Ladder

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\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
Modified: 3/25/2014 10:06:20 AM

Electropherogram Summary



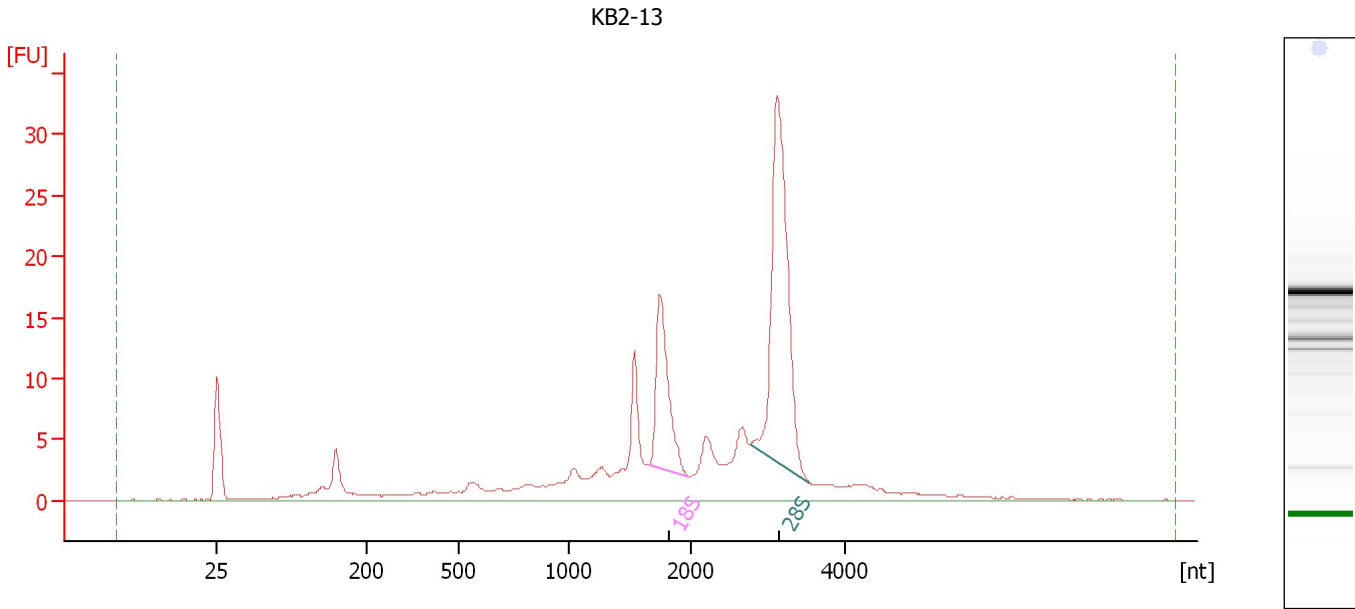
Overall Results for Ladder

RNA Area:	113.6	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
 Modified: 3/25/2014 10:06:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : KB2-13

RNA Area:	199.7	RNA Integrity Number (RIN):	8.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	264 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN: 8.20

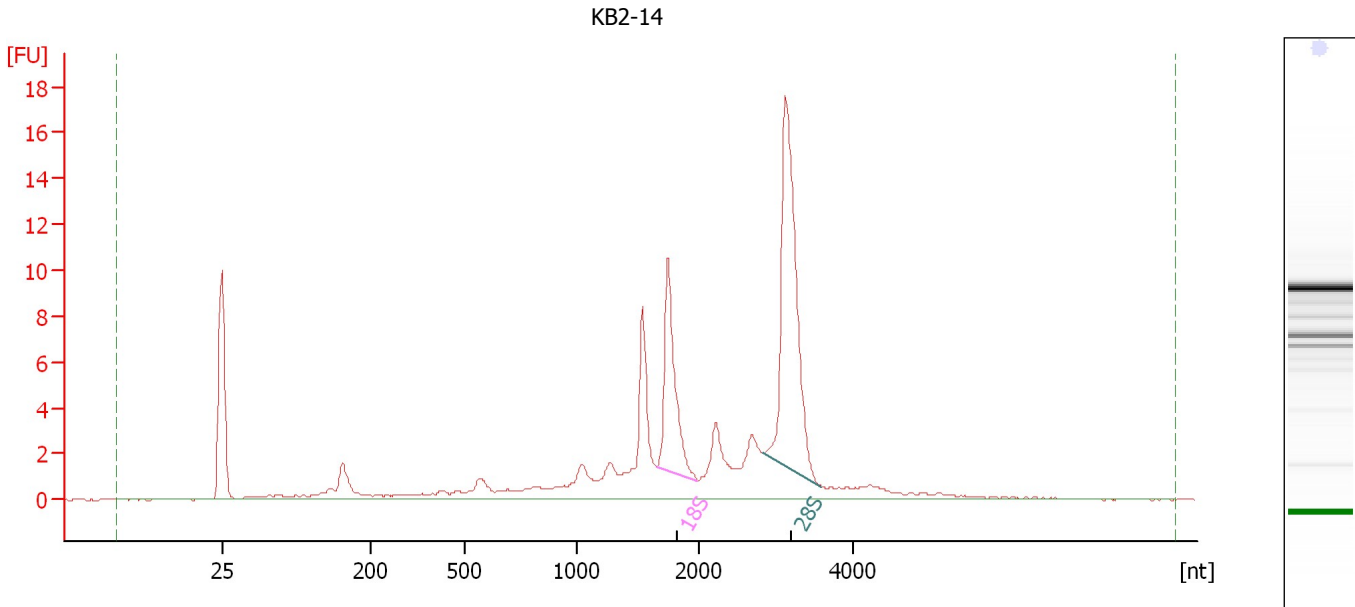
Fragment table for sample 1 : KB2-13

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,651	1,985	20.5	10.3
28S	2,772	3,541	51.2	25.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
 Modified: 3/25/2014 10:06:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : KB2-14

RNA Area:	95.8	RNA Integrity Number (RIN):	8.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	127 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 8.20

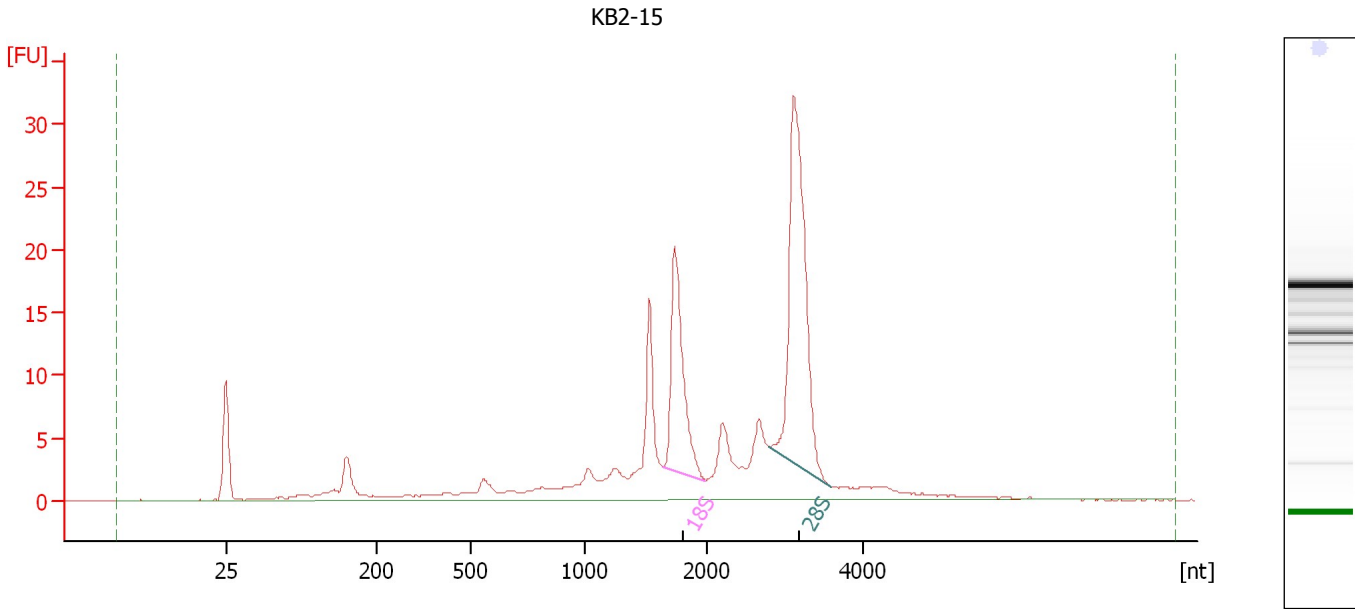
Fragment table for sample 2 : KB2-14

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	1,979	11.5	12.0
28S	2,826	3,574	24.9	26.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
 Modified: 3/25/2014 10:06:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : KB2-15

RNA Area:	187.8	RNA Integrity Number (RIN):	8.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	248 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 8.20

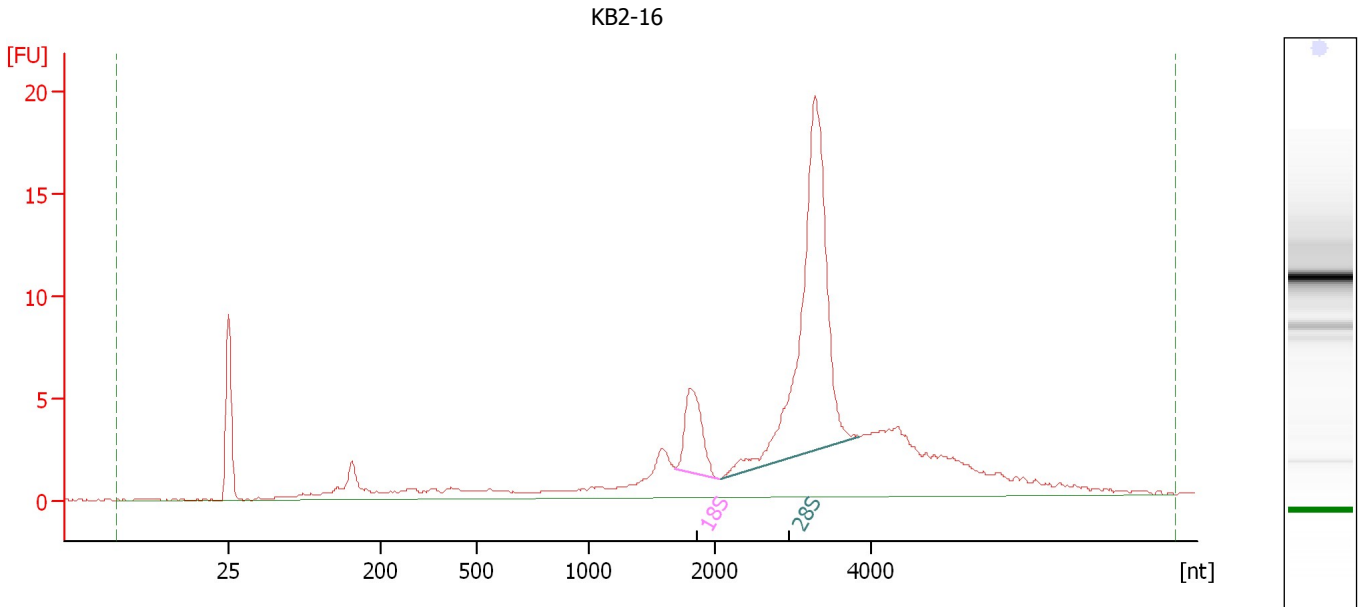
Fragment table for sample 3 : KB2-15

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,637	1,982	24.3	12.9
28S	2,796	3,580	49.3	26.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
 Modified: 3/25/2014 10:06:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : KB2-16

RNA Area:	136.4	RNA Integrity Number (RIN):	8.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	180 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	5.6	Result Flagging Label:	RIN: 8.30

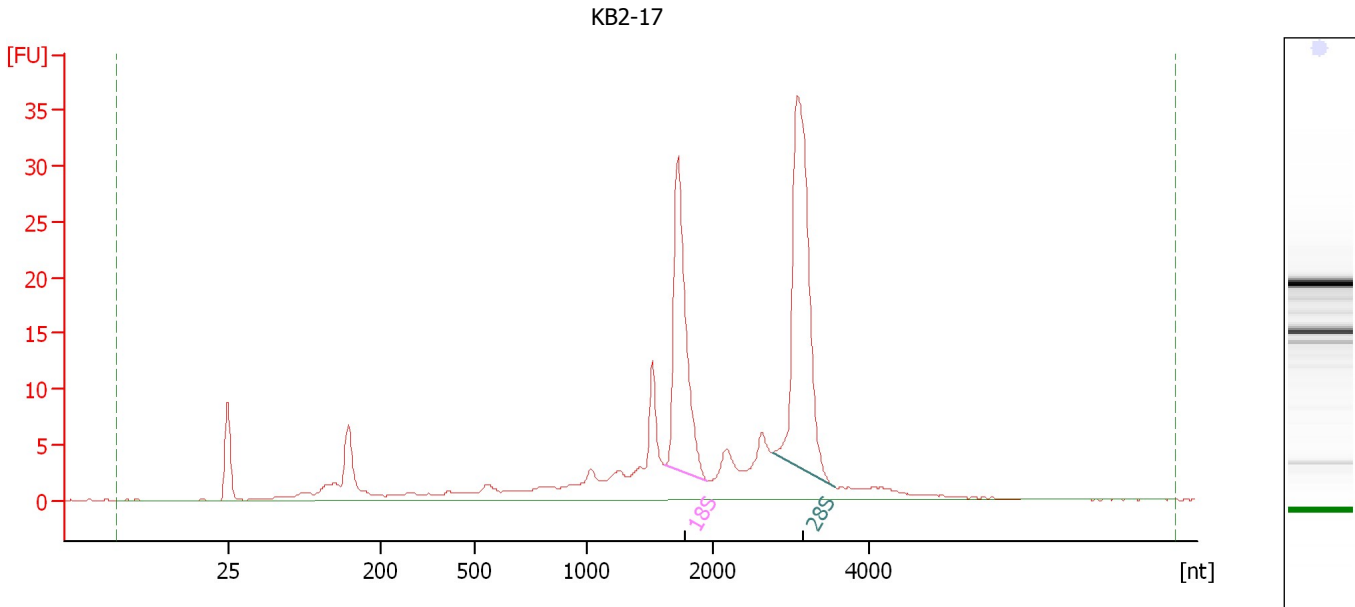
Fragment table for sample 4 : KB2-16

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,693	2,058	8.1	5.9
28S	2,085	3,860	45.6	33.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
 Modified: 3/25/2014 10:06:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : KB2-17

RNA Area:	221.4	RNA Integrity Number (RIN):	8.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	292 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.20

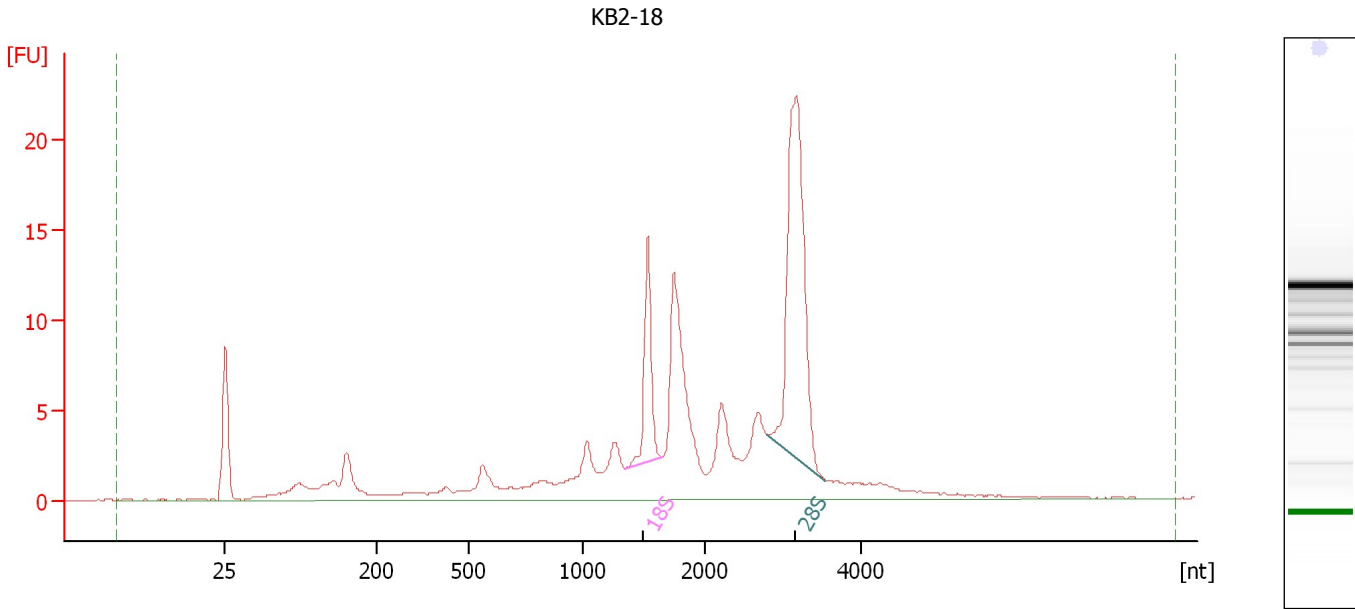
Fragment table for sample 5 : KB2-17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,614	1,967	39.1	17.6
28S	2,768	3,576	57.7	26.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
Modified: 3/25/2014 10:06:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : KB2-18

RNA Area:	160.6	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	212 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.5	Result Flagging Label:	RIN:8

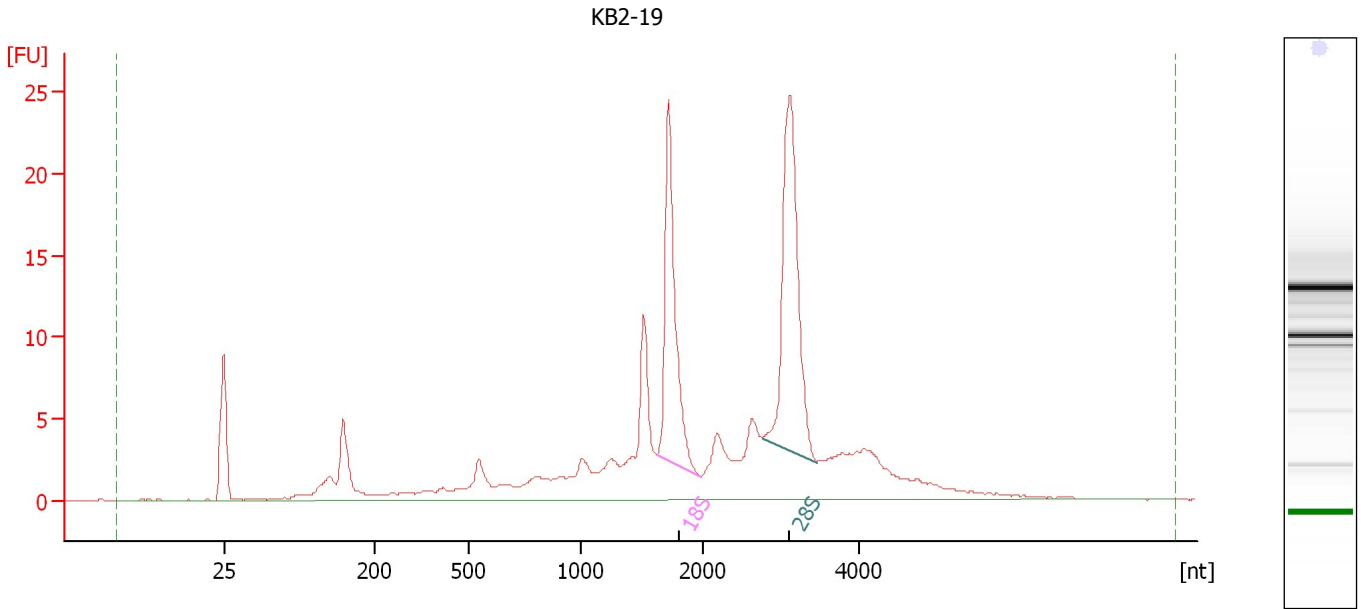
Fragment table for sample 6 : KB2-18

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,341	1,644	10.0	6.2
28S	2,797	3,540	35.0	21.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
 Modified: 3/25/2014 10:06:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : KB2-19

RNA Area:	195.2	RNA Integrity Number (RIN):	7.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	258 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 7.50

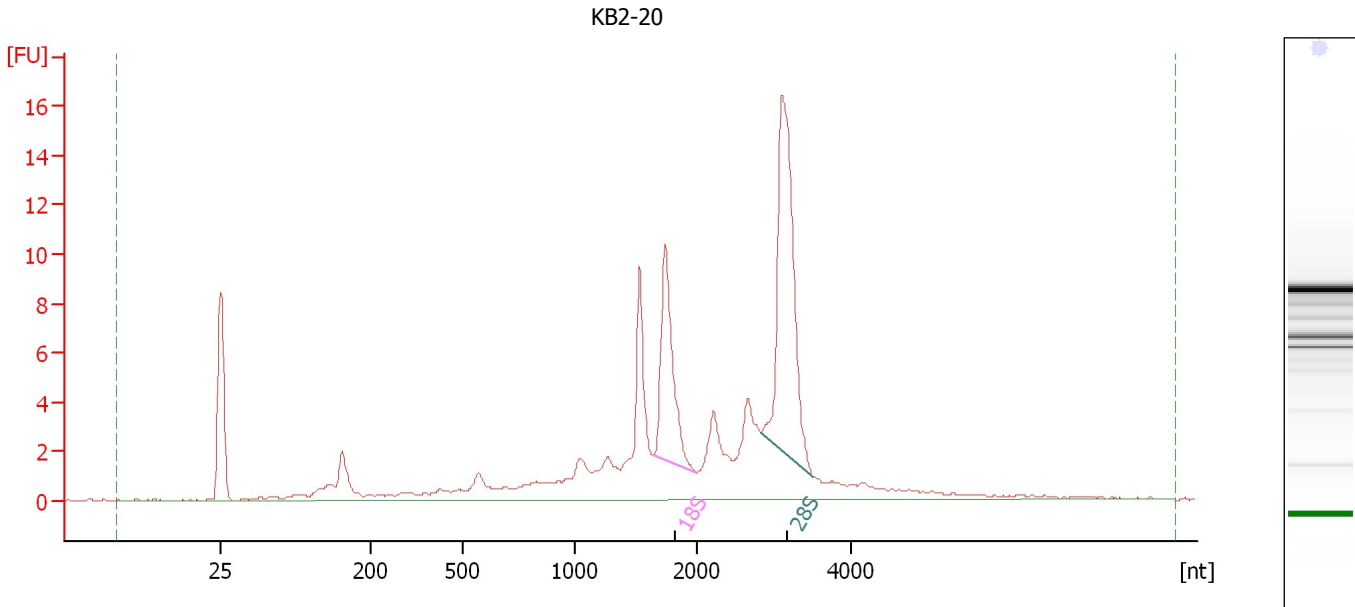
Fragment table for sample 7 : KB2-19

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	1,972	26.5	13.6
28S	2,756	3,460	34.8	17.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
 Modified: 3/25/2014 10:06:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : KB2-20

RNA Area:	111.4	RNA Integrity Number (RIN):	7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	147 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 7.90

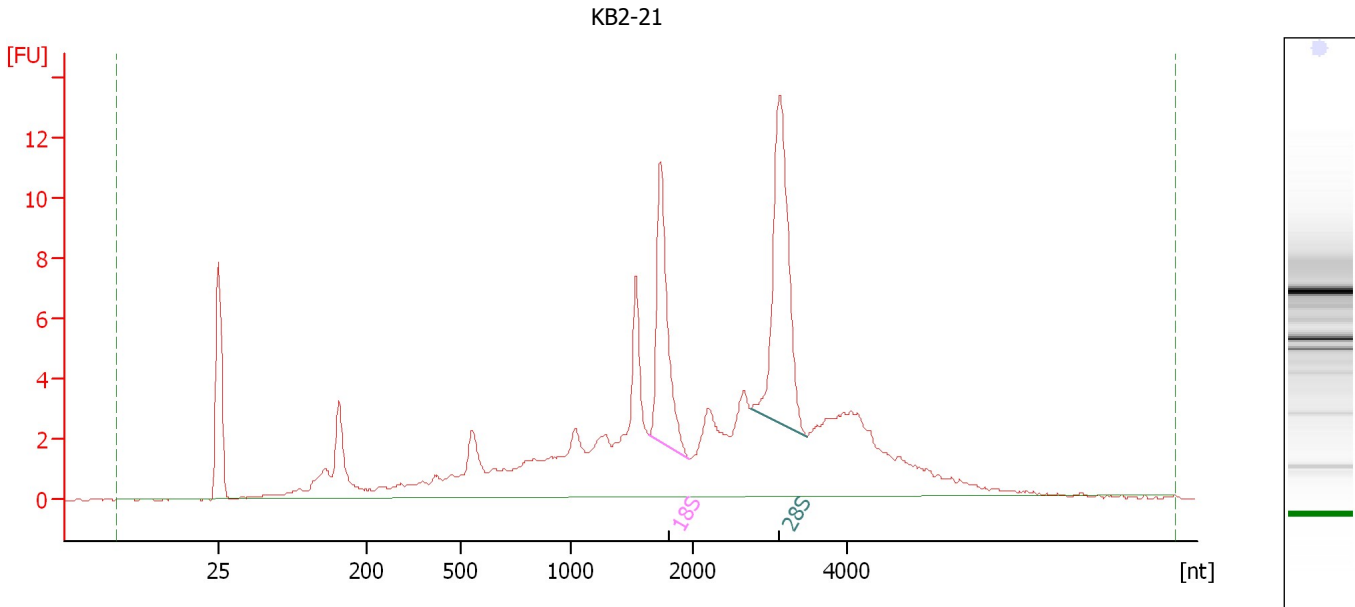
Fragment table for sample 8 : KB2-20

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,638	1,987	12.1	10.9
28S	2,813	3,507	24.6	22.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
 Modified: 3/25/2014 10:06:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : KB2-21

RNA Area:	140.7	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	186 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 6.80

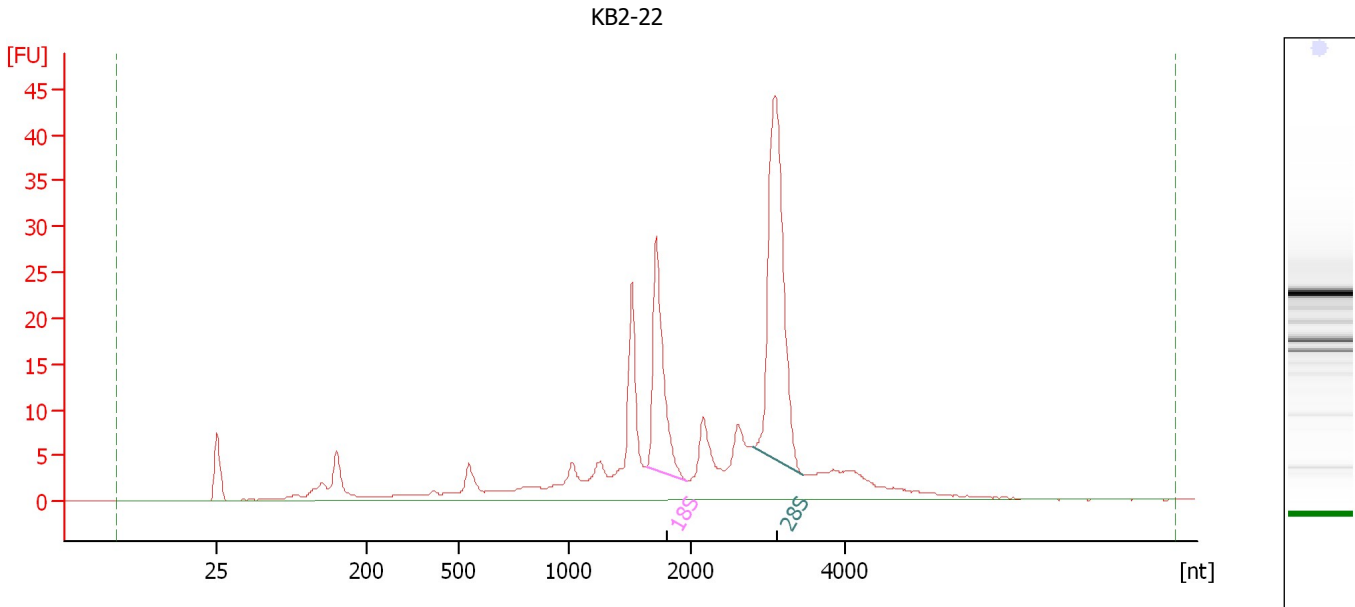
Fragment table for sample 9 : KB2-21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	1,968	11.6	8.3
28S	2,758	3,469	18.1	12.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
 Modified: 3/25/2014 10:06:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : KB2-22

RNA Area:	272.2	RNA Integrity Number (RIN):	7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	359 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 7.90

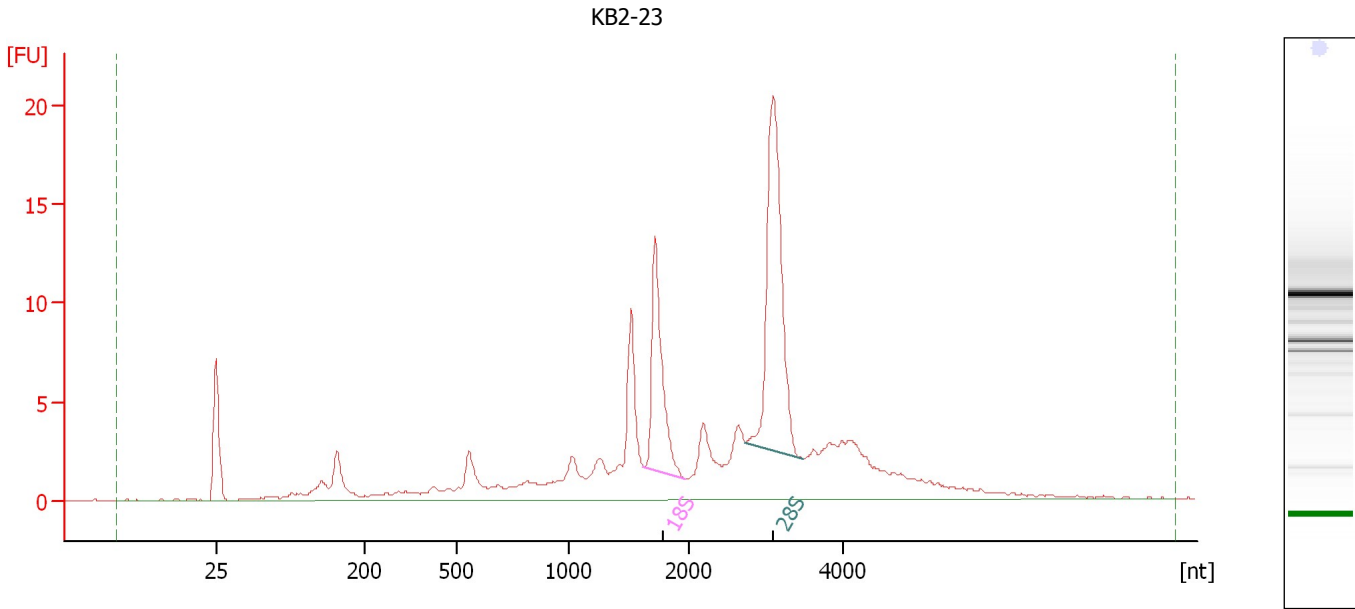
Fragment table for sample 10 : KB2-22

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	1,959	31.3	11.5
28S	2,800	3,457	64.0	23.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
Modified: 3/25/2014 10:06:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : KB2-23

RNA Area:	145.9	RNA Integrity Number (RIN):	7.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	193 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 7.70

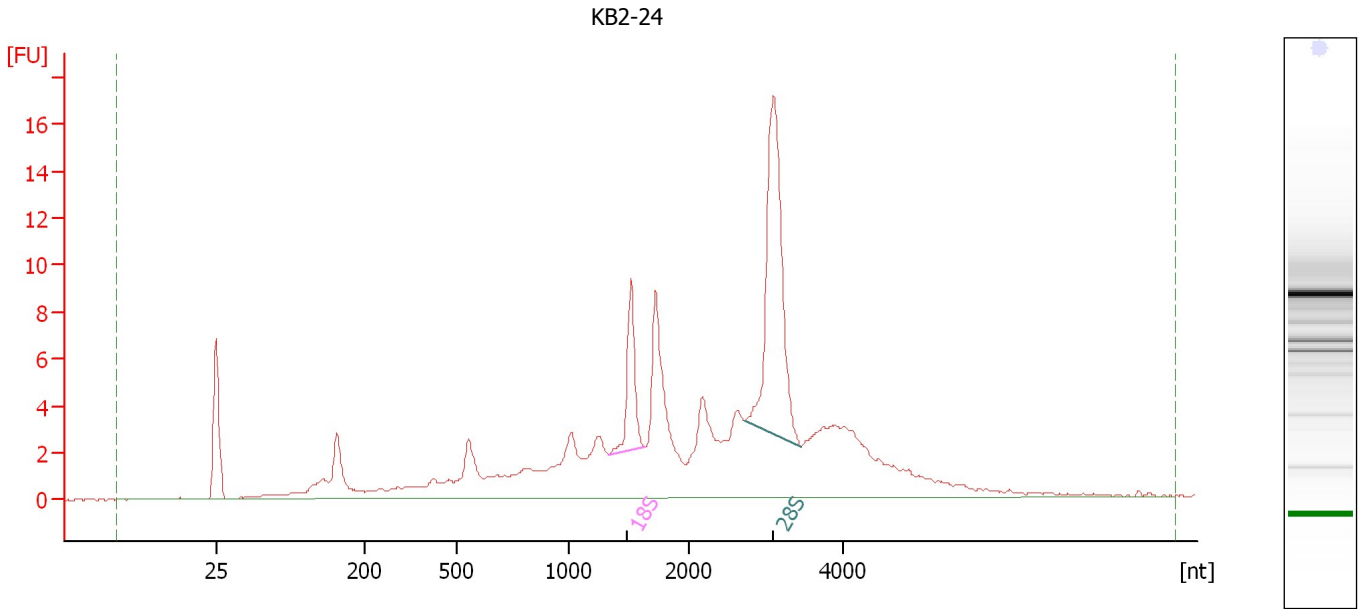
Fragment table for sample 11 : KB2-23

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,967	14.4	9.9
28S	2,731	3,487	27.9	19.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
Modified: 3/25/2014 10:06:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : KB2-24

RNA Area: 155.3 RNA Integrity Number (RIN): 6.7 (B.02.08)
RNA Concentration: 205 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 3.7 Result Flagging Label: RIN: 6.70

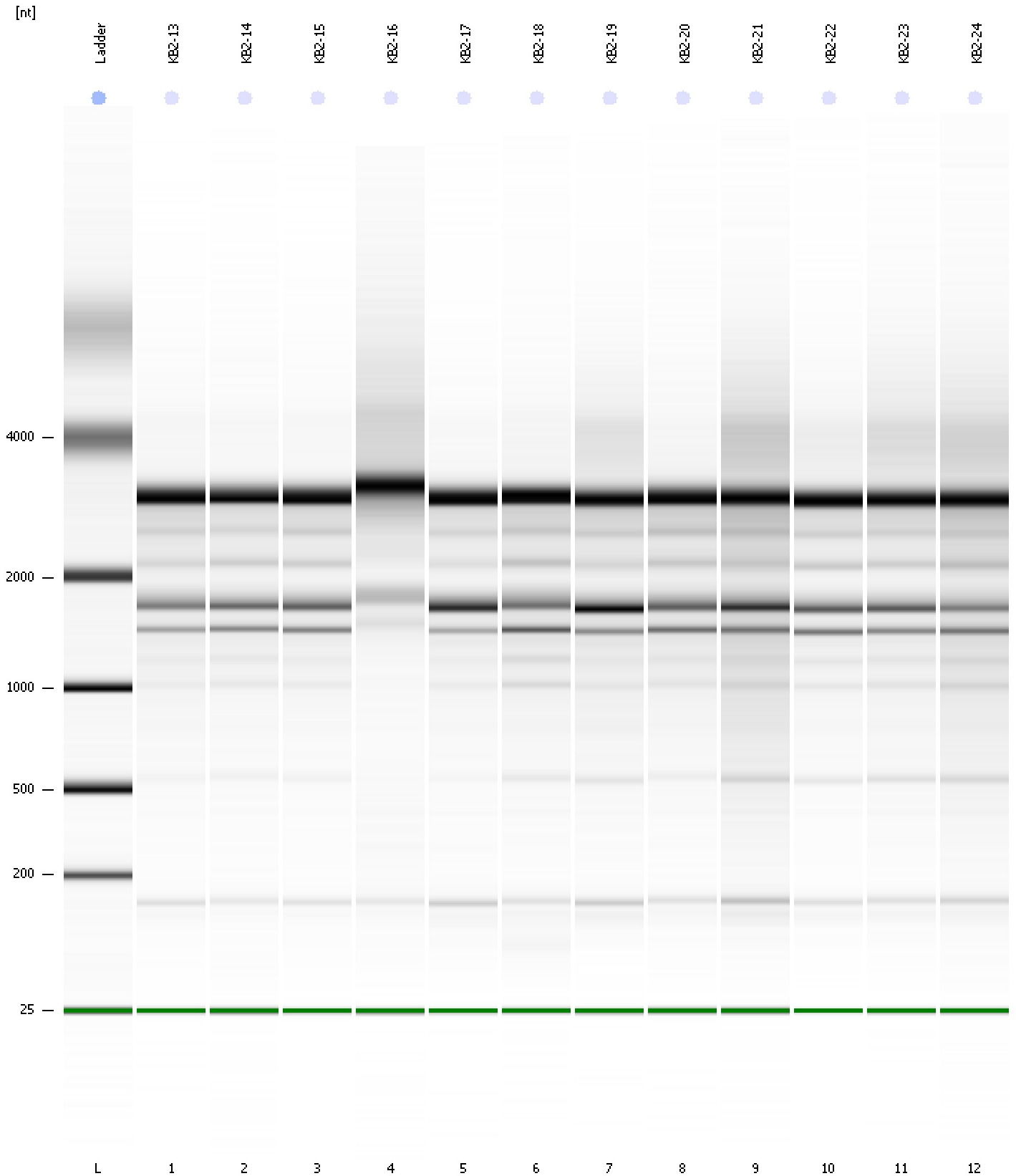
Fragment table for sample 12 : KB2-24

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,342	1,632	6.4	4.1
28S	2,717	3,459	23.8	15.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
Modified: 3/25/2014 10:06:20 AM

Gel Image

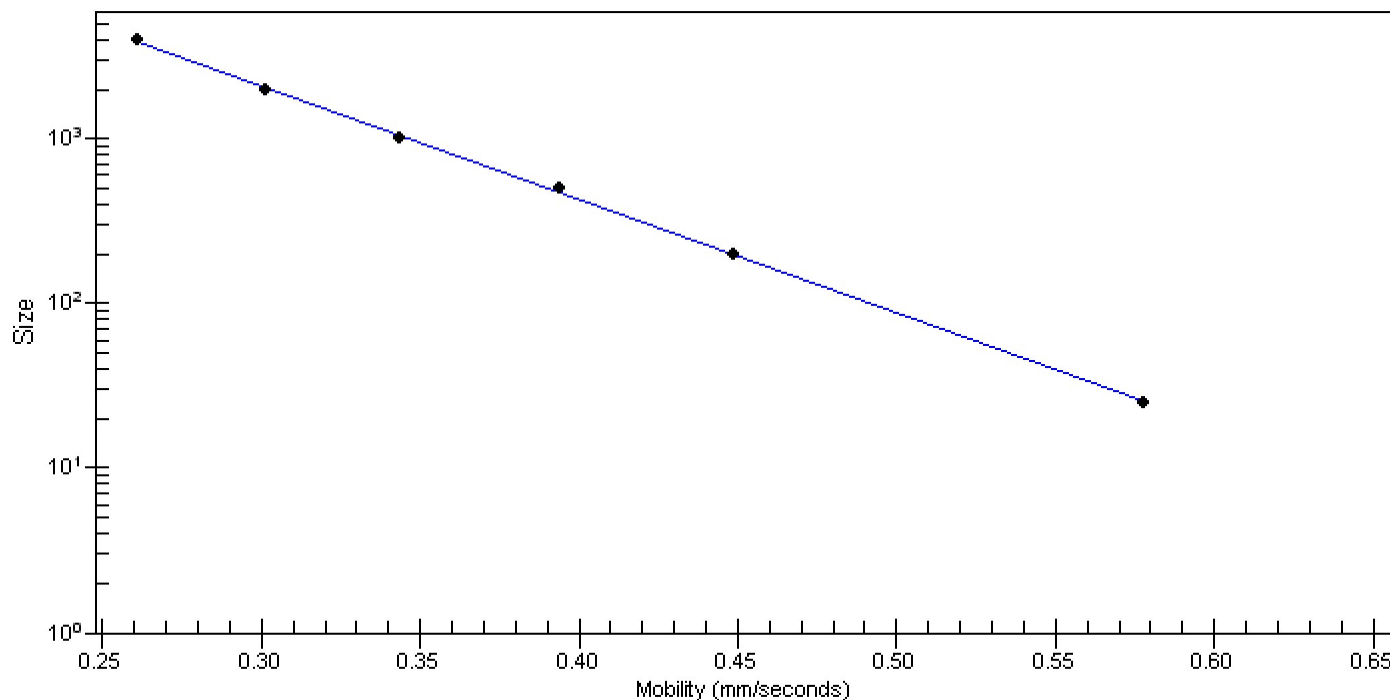


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
Modified: 3/25/2014 10:06:20 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad

Created: 3/25/2014 9:29:11 AM
 Modified: 3/25/2014 10:06:20 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		3/25/2014 9:53:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-03-25\2014-03-25_001.xad)		Instrument	Run		3/25/2014 9:29:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/25/2014 9:29:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/25/2014 9:29:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/25/2014 9:29:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/25/2014 9:29:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/25/2014 9:29:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/25/2014 9:29:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1