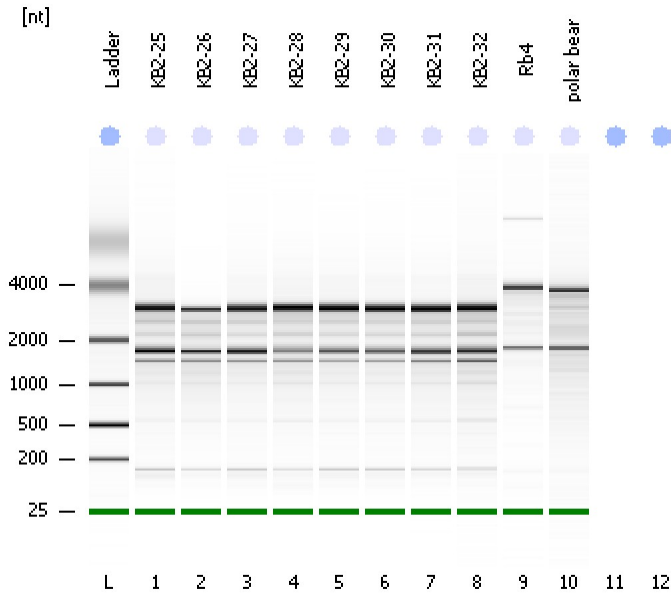


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
Modified: 3/25/2014 11:18:04 AM

Electrophoresis File Run Summary



Instrument Information:

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

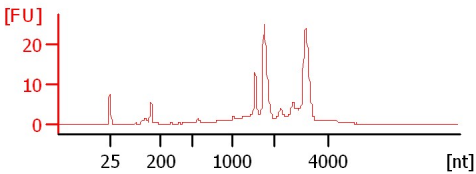
Assay Information:

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.

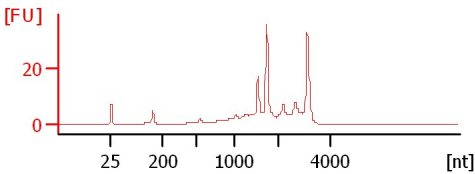
Chip Information:

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

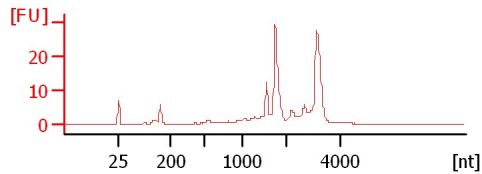
KB2-25
RIN: 7.60



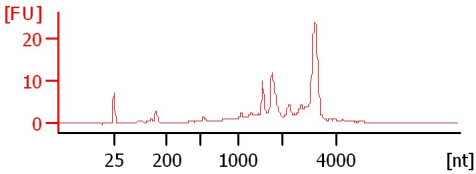
KB2-26
RIN: 6.80



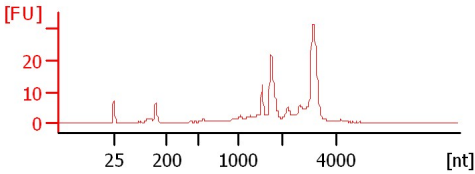
KB2-27
RIN: 7.90



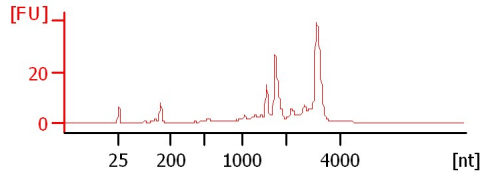
KB2-28
RIN: 8



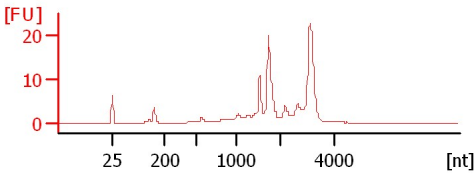
KB2-29
RIN: 8.20



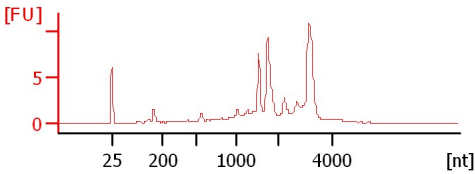
KB2-30
RIN: 8.10



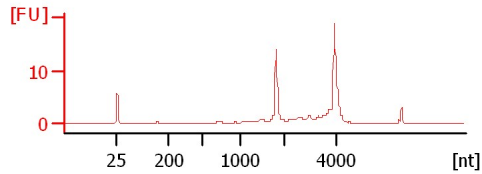
KB2-31
RIN: 7.70



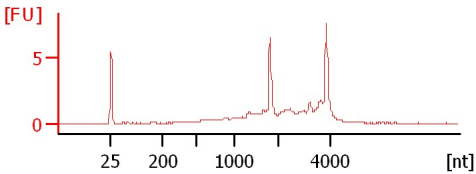
KB2-32
RIN: 7.50



Rb4
RIN: 9.50



polar bear
RIN: 7



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
 Modified: 3/25/2014 11:18:04 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
KB2-25		✓	RIN: 7.60	
KB2-26		✓	RIN: 6.80	
KB2-27		✓	RIN: 7.90	
KB2-28		✓	RIN:8	
KB2-29		✓	RIN: 8.20	
KB2-30		✓	RIN: 8.10	
KB2-31		✓	RIN: 7.70	
KB2-32		✓	RIN: 7.50	
Rb4		✓	RIN: 9.50	
polar bear		✓	RIN:7	
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_002.xad

Created: 3/25/2014 10:31:15 AM
Modified: 3/25/2014 11:18:04 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

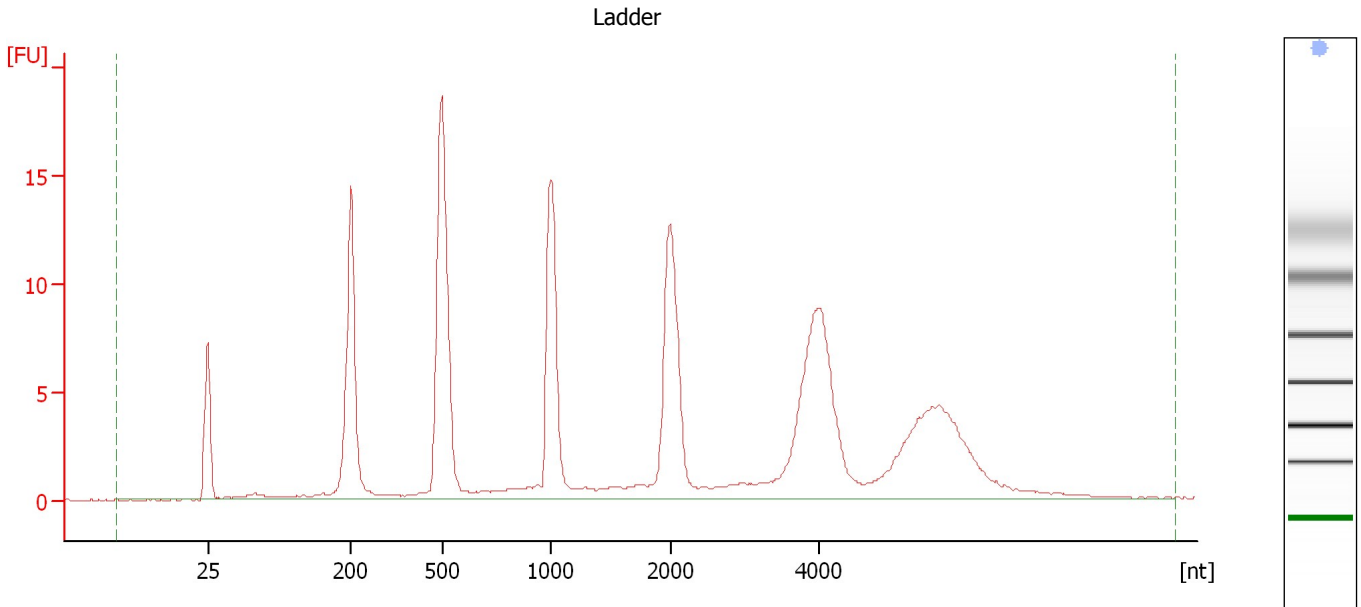
Ladder

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_002.xad

Created: 3/25/2014 10:31:15 AM
Modified: 3/25/2014 11:18:04 AM

Electropherogram Summary



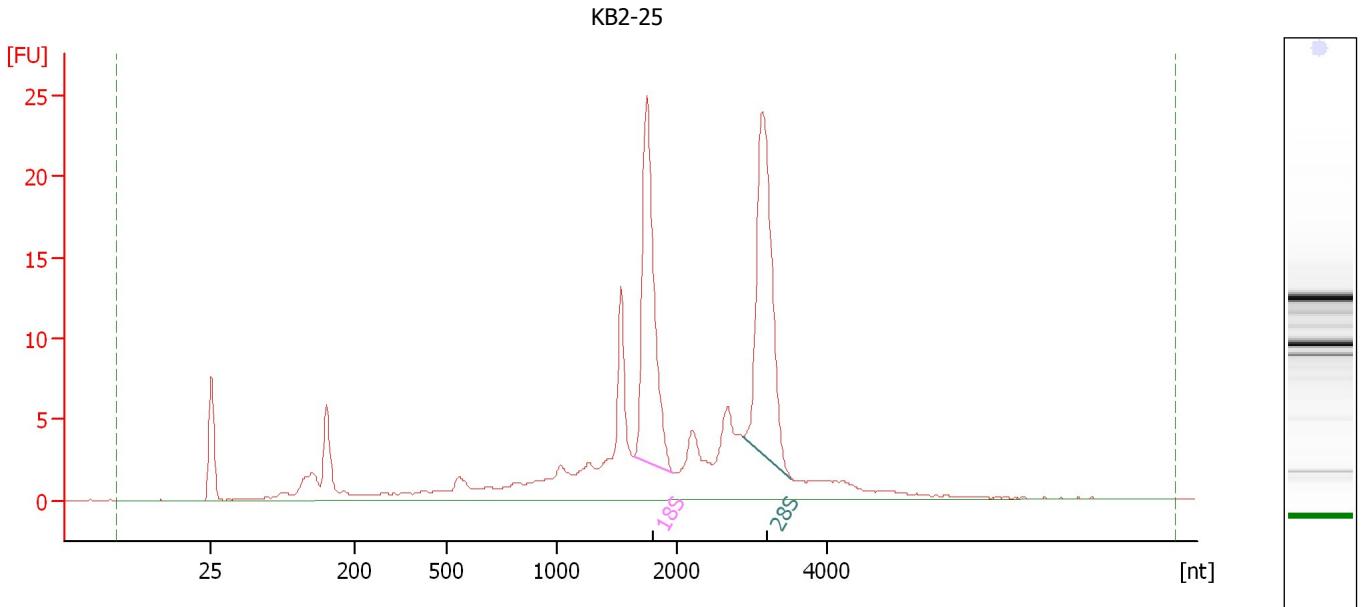
Overall Results for Ladder

RNA Area:	171.5	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_002.xad

Created: 3/25/2014 10:31:15 AM
 Modified: 3/25/2014 11:18:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : KB2-25

RNA Area:	184.3	RNA Integrity Number (RIN):	7.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	161 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.60

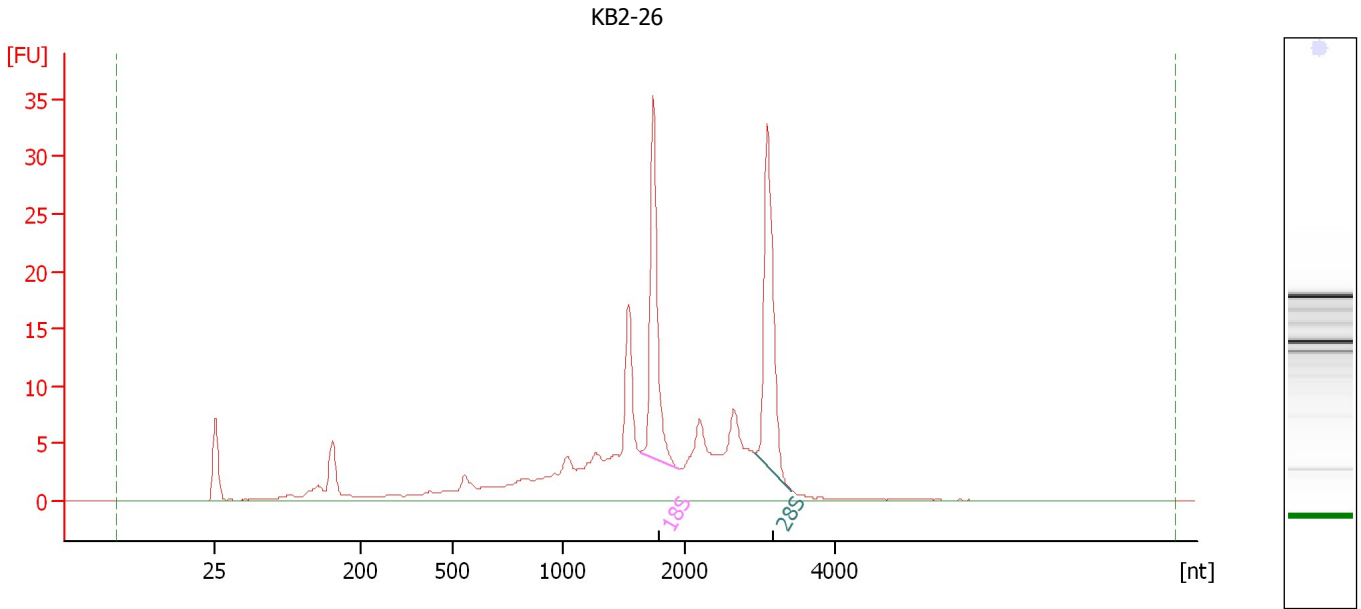
Fragment table for sample 1 : KB2-25

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	1,975	31.5	17.1
28S	2,890	3,533	35.2	19.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
 Modified: 3/25/2014 11:18:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : KB2-26

RNA Area:	202.7	RNA Integrity Number (RIN):	6.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	177 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 6.80

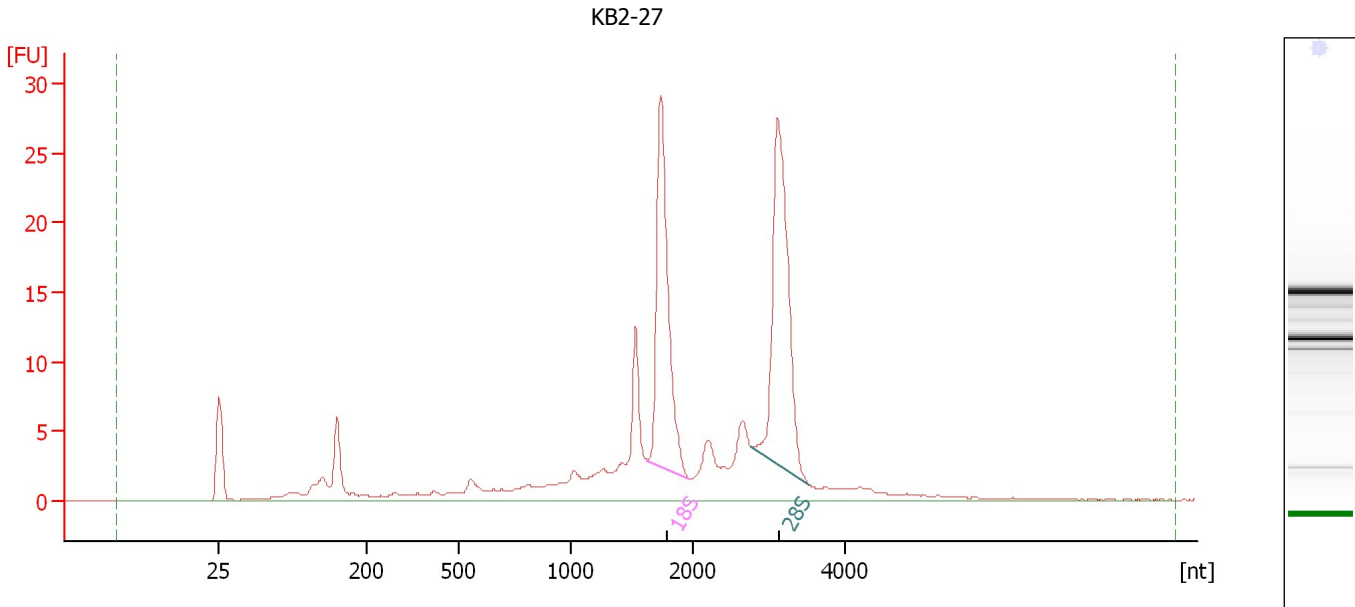
Fragment table for sample 2 : KB2-26

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	1,952	28.1	13.9
28S	2,930	3,412	28.7	14.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
 Modified: 3/25/2014 11:18:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : KB2-27

RNA Area:	191.0	RNA Integrity Number (RIN):	7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	167 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.90

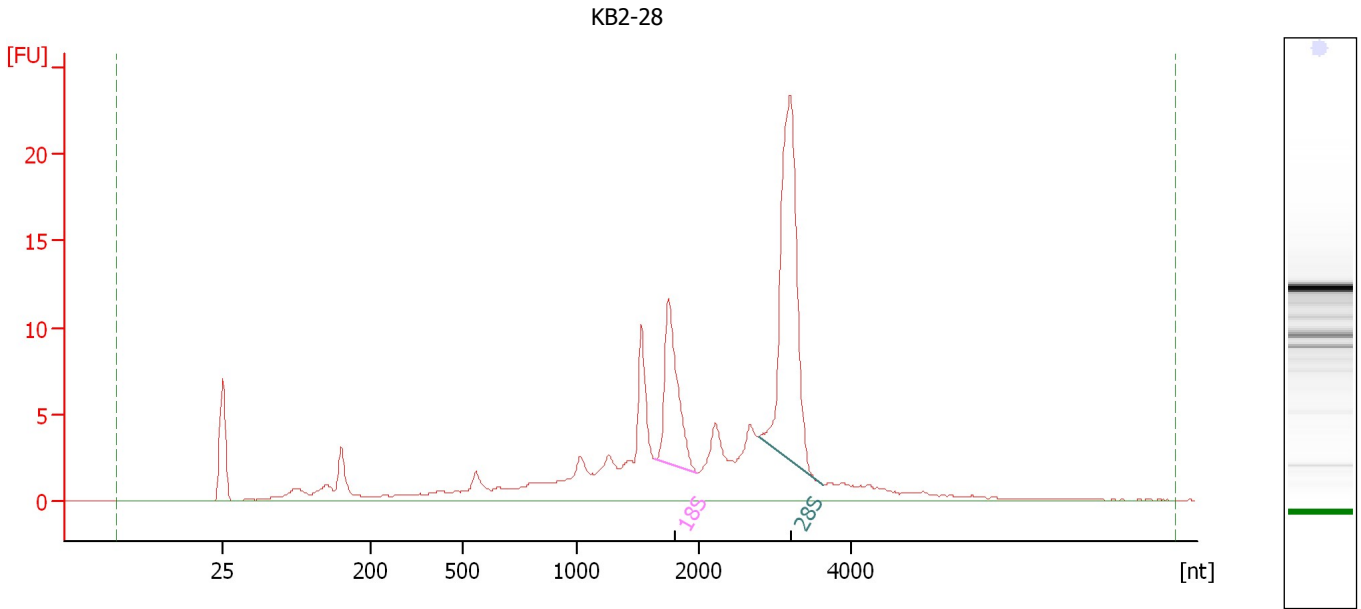
Fragment table for sample 3 : KB2-27

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,973	35.5	18.6
28S	2,773	3,532	41.6	21.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
 Modified: 3/25/2014 11:18:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : KB2-28

RNA Area:	152.2	RNA Integrity Number (RIN):	8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	133 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN:8

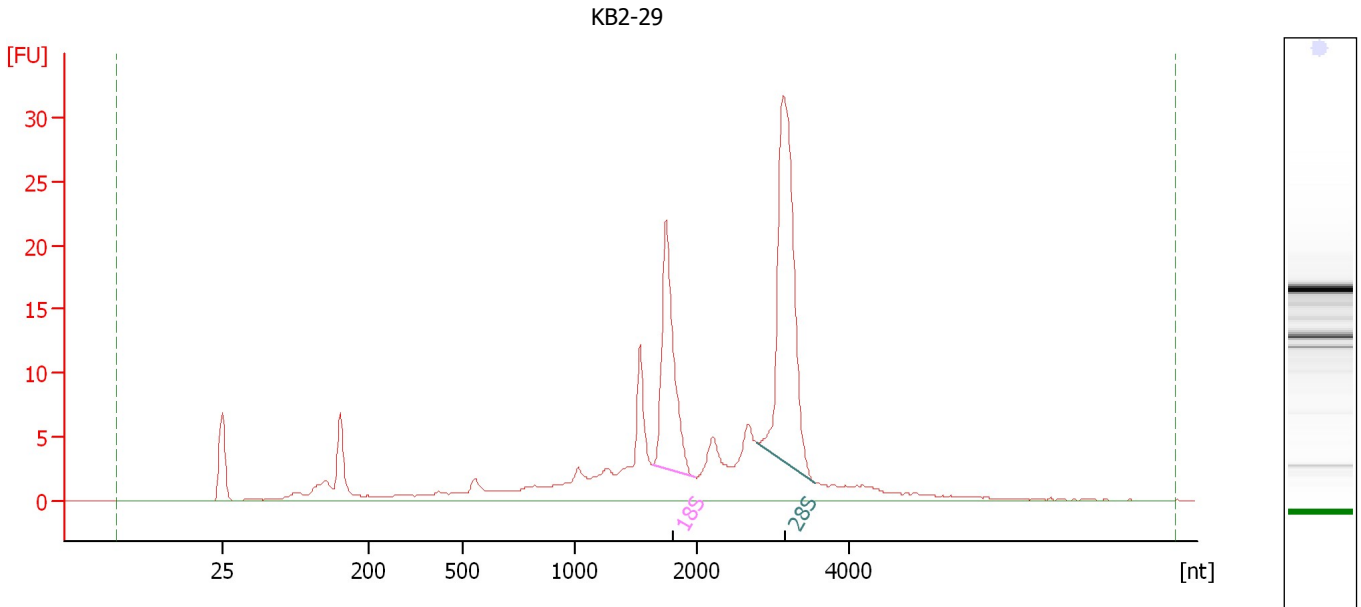
Fragment table for sample 4 : KB2-28

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,984	14.7	9.6
28S	2,772	3,624	36.1	23.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
 Modified: 3/25/2014 11:18:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : KB2-29

RNA Area:	201.4	RNA Integrity Number (RIN):	8.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	176 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.20

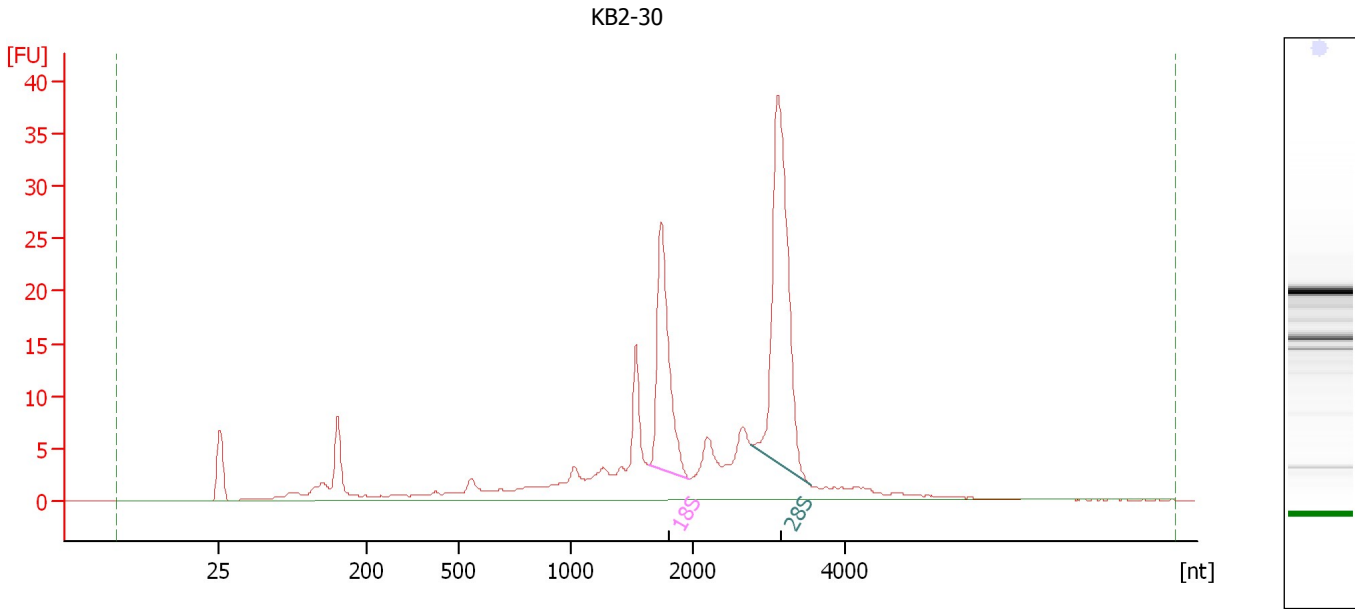
Fragment table for sample 5 : KB2-29

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	1,975	27.3	13.6
28S	2,786	3,542	49.7	24.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
 Modified: 3/25/2014 11:18:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : KB2-30

RNA Area:	233.2	RNA Integrity Number (RIN):	8.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	204 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.10

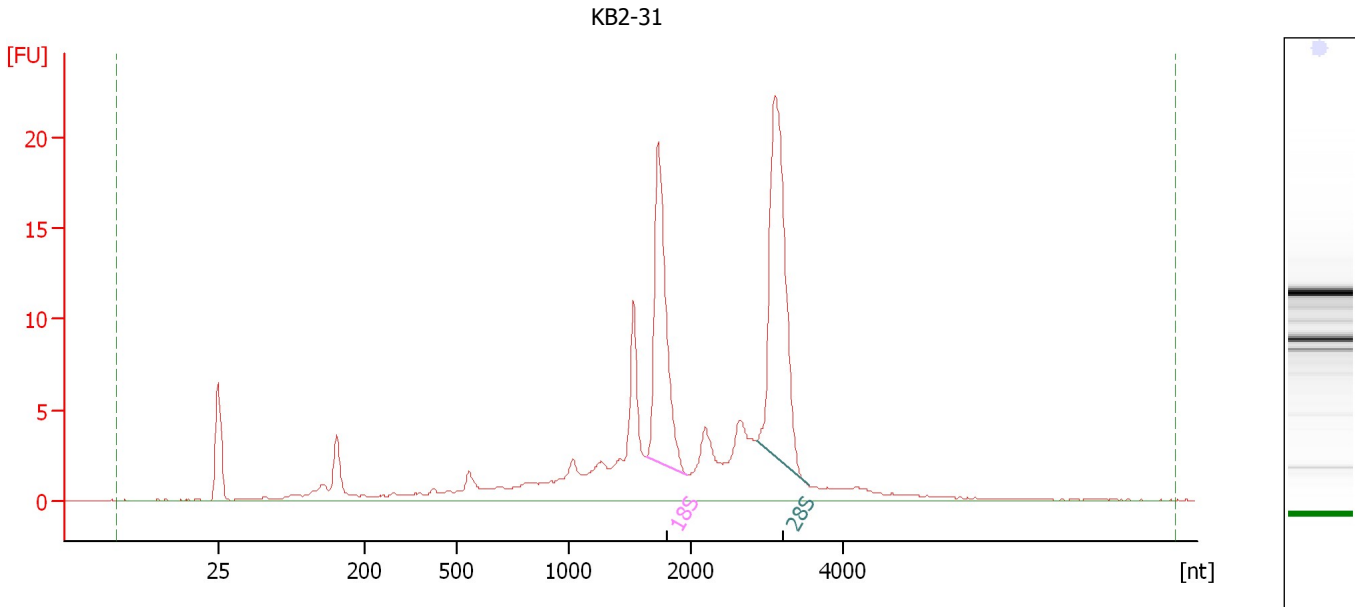
Fragment table for sample 6 : KB2-30

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,633	1,973	32.1	13.8
28S	2,773	3,546	59.0	25.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
 Modified: 3/25/2014 11:18:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : KB2-31

RNA Area:	149.5	RNA Integrity Number (RIN):	7.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	131 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.70

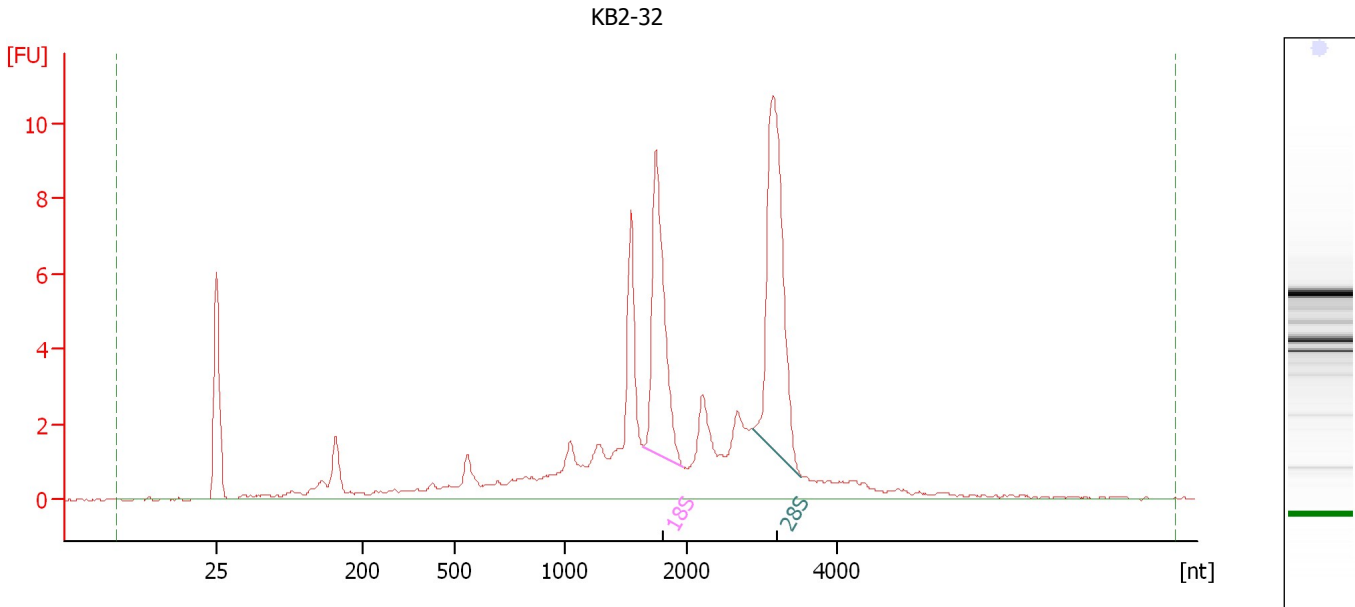
Fragment table for sample 7 : KB2-31

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,631	1,964	24.1	16.1
28S	2,857	3,548	33.5	22.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
 Modified: 3/25/2014 11:18:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : KB2-32

RNA Area:	83.4	RNA Integrity Number (RIN):	7.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	73 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 7.50

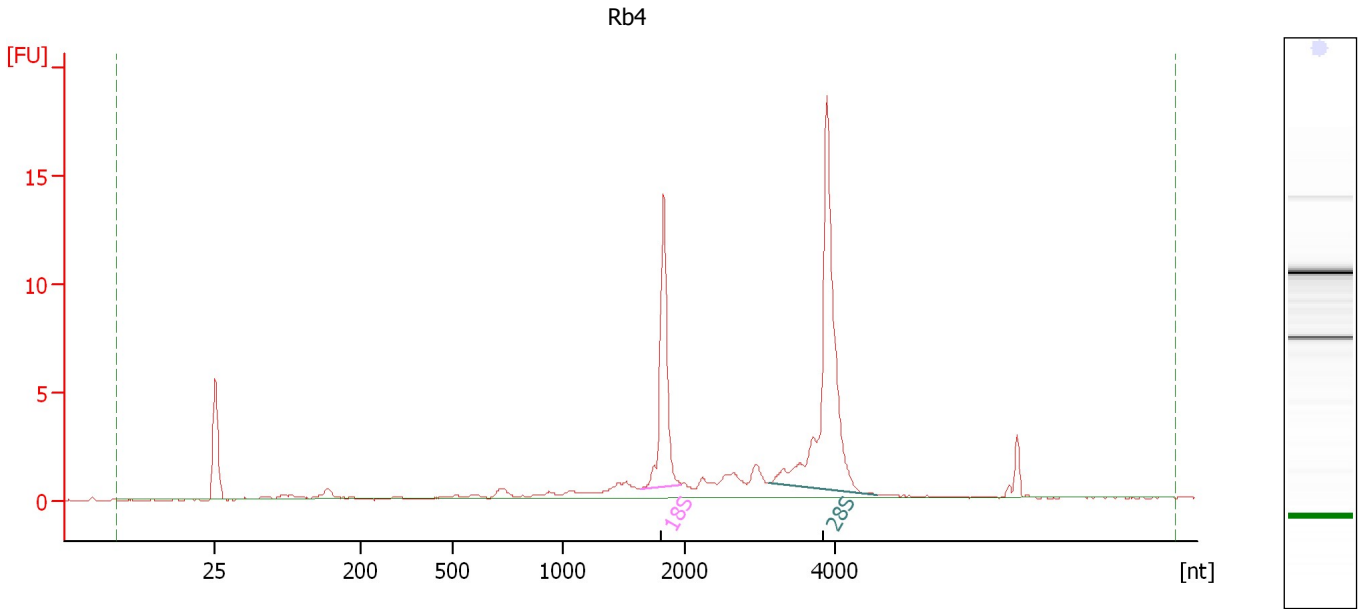
Fragment table for sample 8 : KB2-32

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,971	11.7	14.0
28S	2,887	3,524	15.8	18.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
Modified: 3/25/2014 11:18:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Rb4

RNA Area:	60.5	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	53 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 9.50

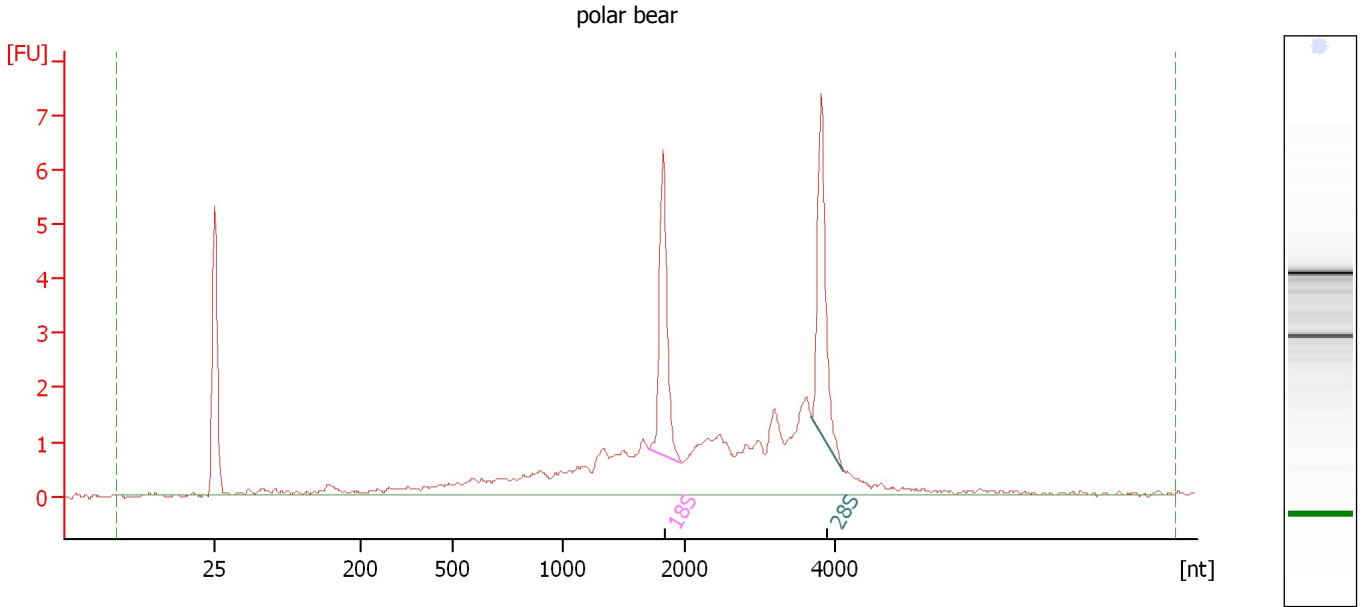
Fragment table for sample 9 : Rb4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	1,970	11.0	18.3
28S	3,114	4,561	23.8	39.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
Modified: 3/25/2014 11:18:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : polar bear

RNA Area: 42.5 RNA Integrity Number (RIN): 7 (B.02.08)
RNA Concentration: 37 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN:7

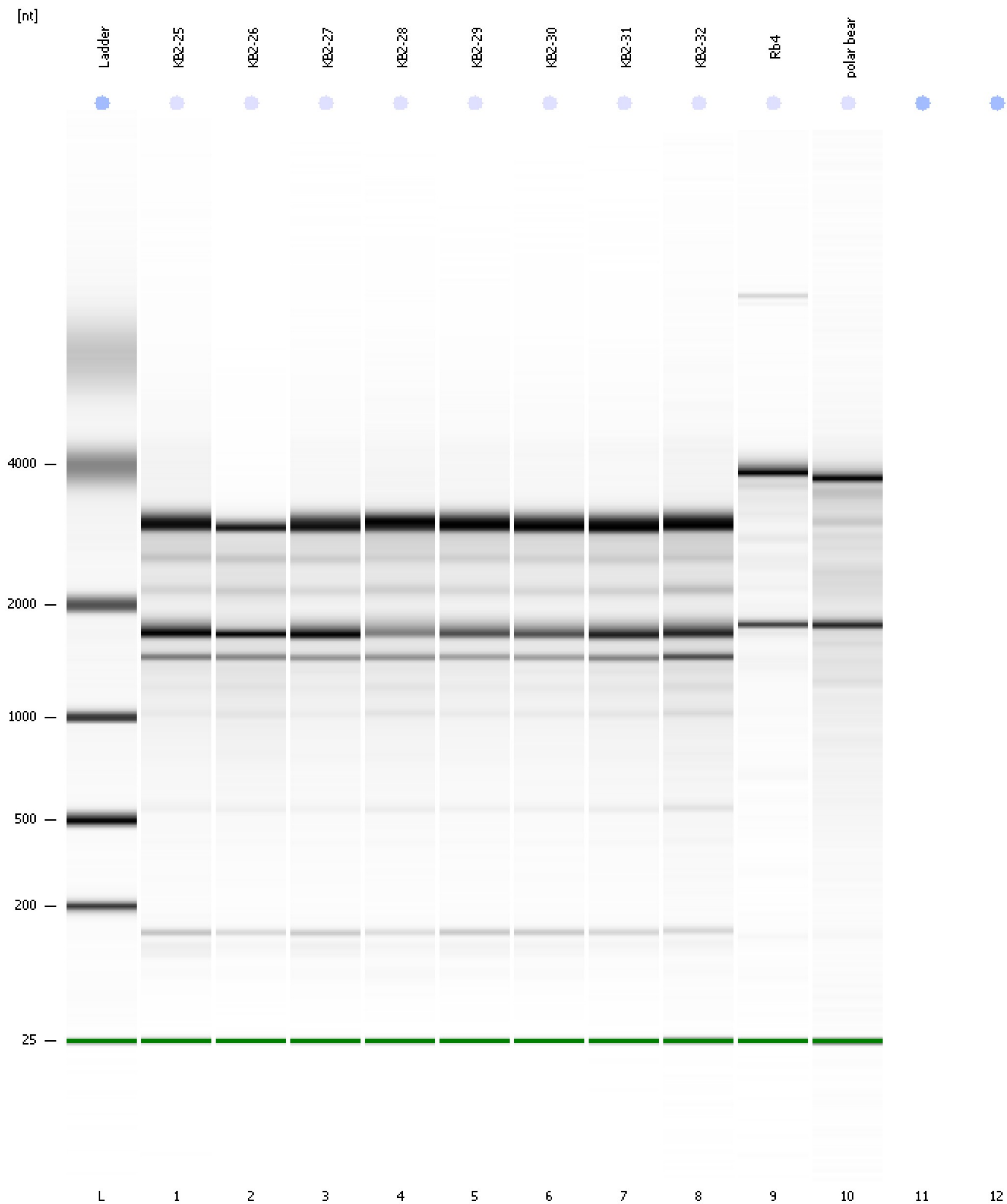
Fragment table for sample 10 : polar bear

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,706	1,970	4.9	11.5
28S	3,681	4,107	5.0	11.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
Modified: 3/25/2014 11:18:04 AM

Gel Image

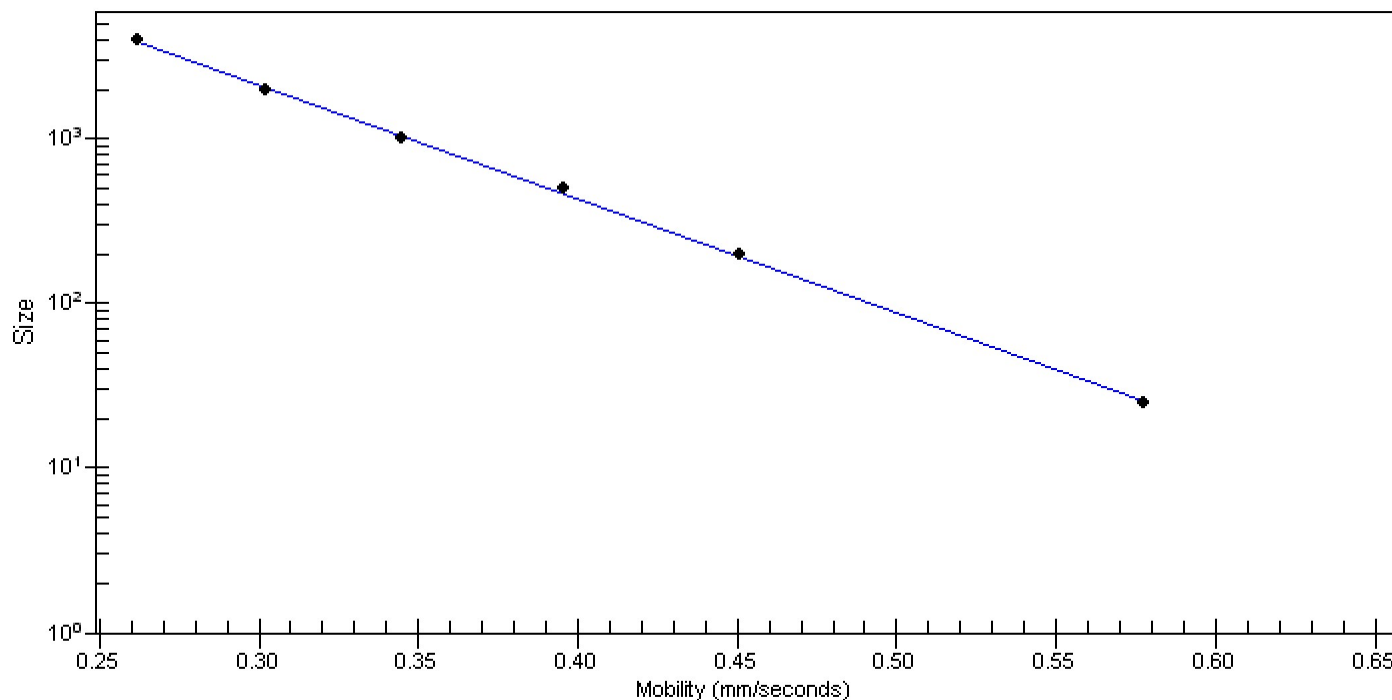


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
Modified: 3/25/2014 11:18:04 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
Modified: 3/25/2014 11:18:04 AM

Invalid Samples

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-25\2014-03-25_002.xad

Created: 3/25/2014 10:31:15 AM
 Modified: 3/25/2014 11:18:04 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		3/25/2014 10:52:20 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_002.xad)		Instrument	Run		3/25/2014 10:31:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/25/2014 10:31:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/25/2014 10:31:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/25/2014 10:31:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/25/2014 10:31:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/25/2014 10:31:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/25/2014 10:31:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1