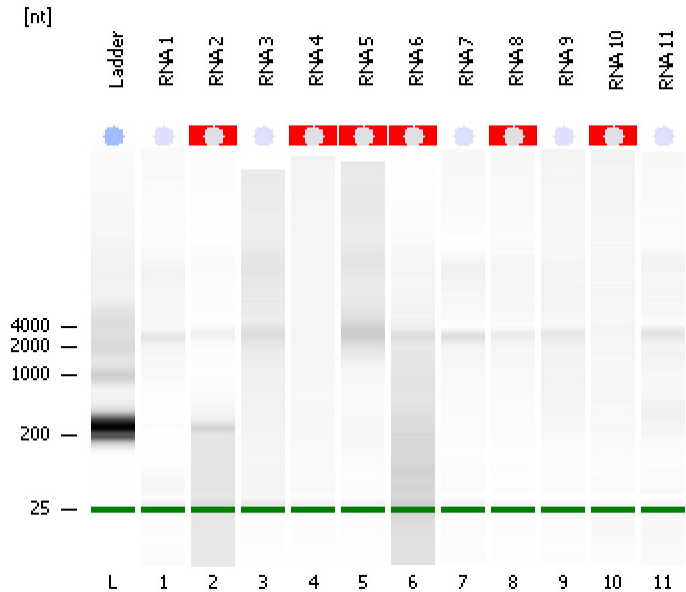


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Electrophoresis File Run Summary



Instrument Information:

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

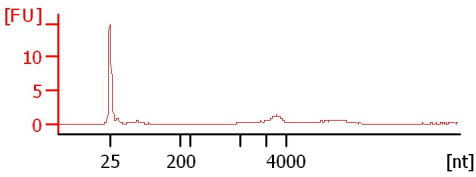
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

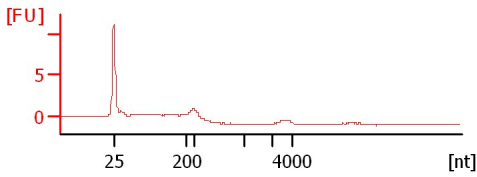
Chip Information:

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

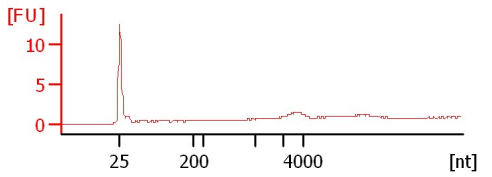
RNA 1
RIN: 5.20



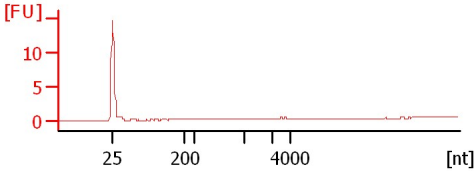
RNA 2
RIN N/A



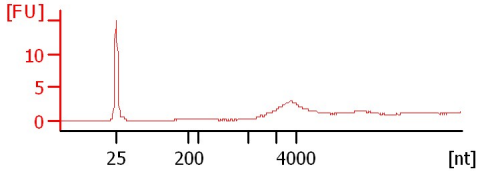
RNA 3
RIN:1



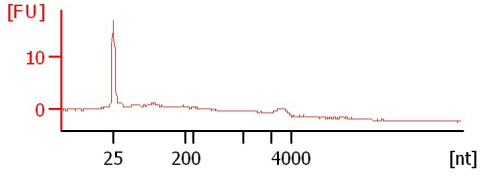
RNA 4
RIN N/A



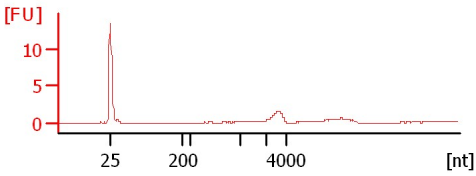
RNA 5
RIN N/A



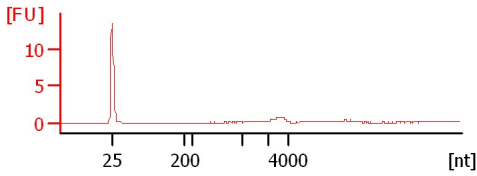
RNA 6
RIN N/A



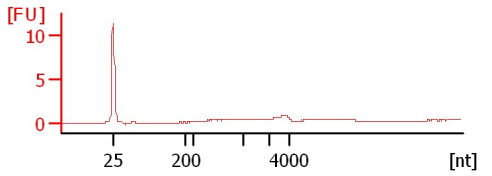
RNA 7
RIN: 7.70



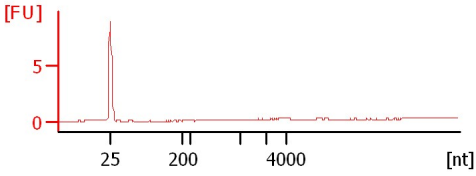
RNA 8
RIN N/A



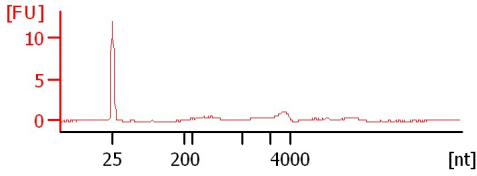
RNA 9
RIN:1



RNA 10
RIN N/A



RNA 11
RIN: 5.80



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
 Modified: 7/8/2016 10:57:05 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
RNA 1		✓	RIN: 5.20	
RNA 2		✓	RIN N/A	
RNA 3		✓	RIN:1	
RNA 4		✓	RIN N/A	
RNA 5		✓	RIN N/A	
RNA 6		✓	RIN N/A	
RNA 7		✓	RIN: 7.70	
RNA 8		✓	RIN N/A	
RNA 9		✓	RIN:1	
RNA 10		✓	RIN N/A	
RNA 11		✓	RIN: 5.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/μl] : 1000
Lower Marker Concentration [pg/μl] : 0
Upper Marker Concentration [pg/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

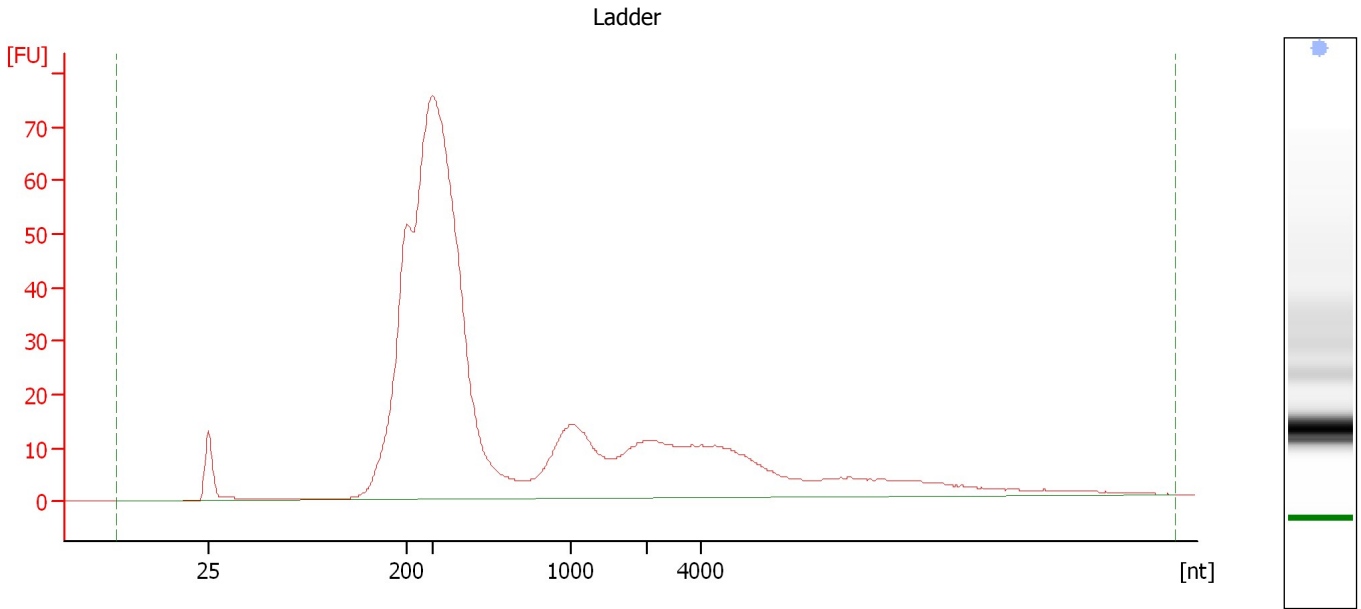
Ladder

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


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Electropherogram Summary



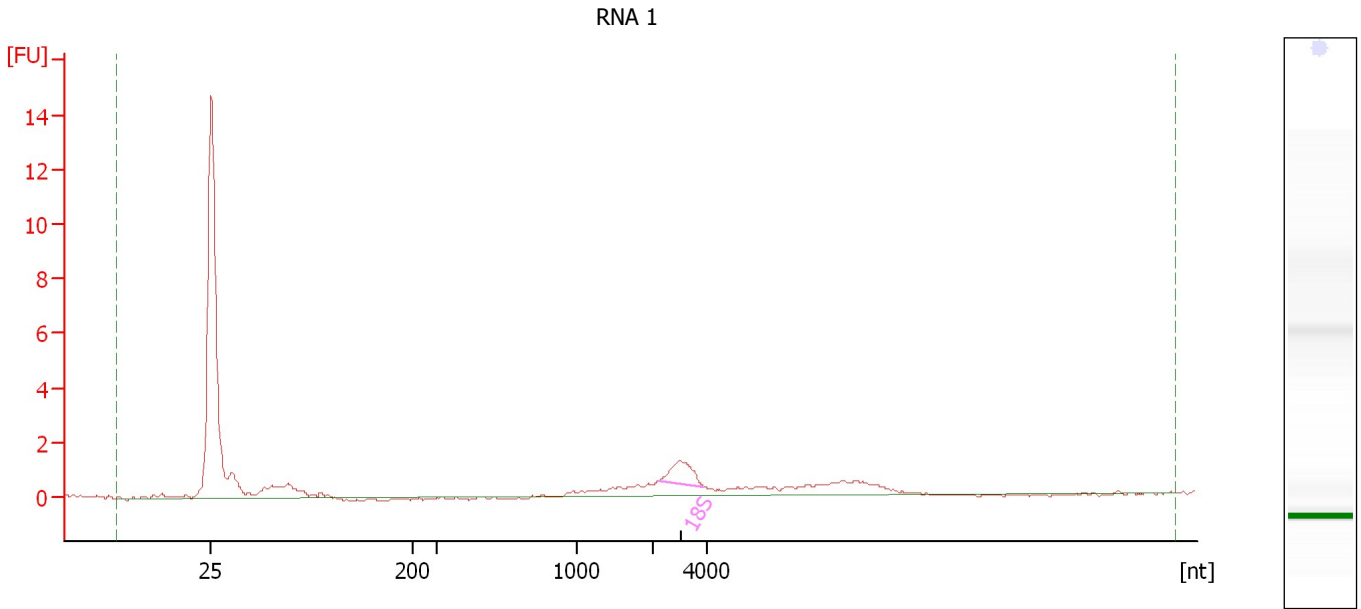
Overall Results for Ladder

RNA Area:	951.1	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : RNA 1

RNA Area:	18.1	RNA Integrity Number (RIN):	5.2 (B.02.08)
RNA Concentration:	19 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.20

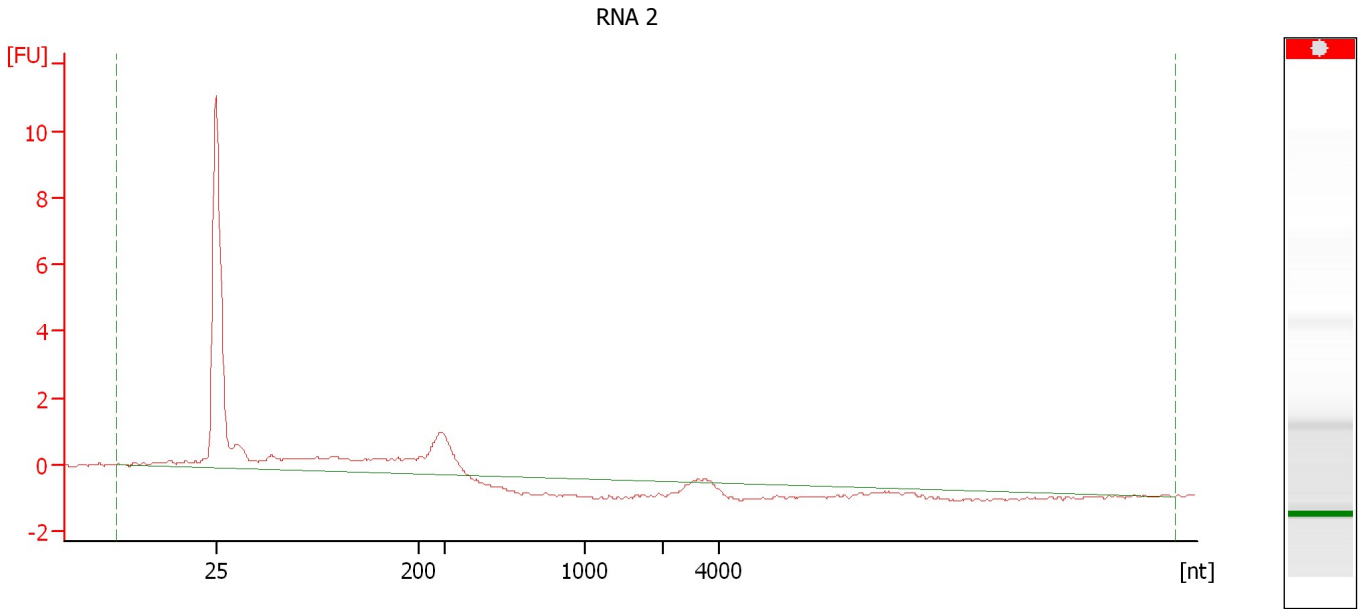
Fragment table for sample 1 : RNA 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,249	3,847	2.0	11.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Electropherogram Summary Continued ...



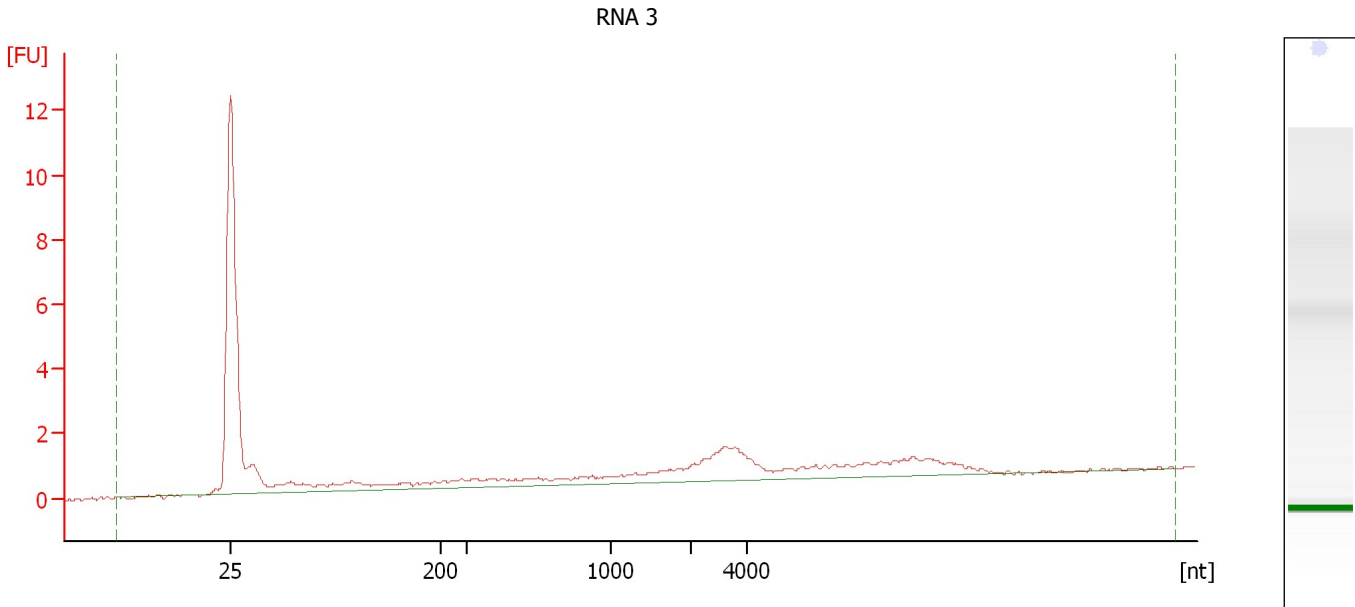
Overall Results for sample 2 : RNA 2

RNA Area:	17.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	18 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Electropherogram Summary Continued ...



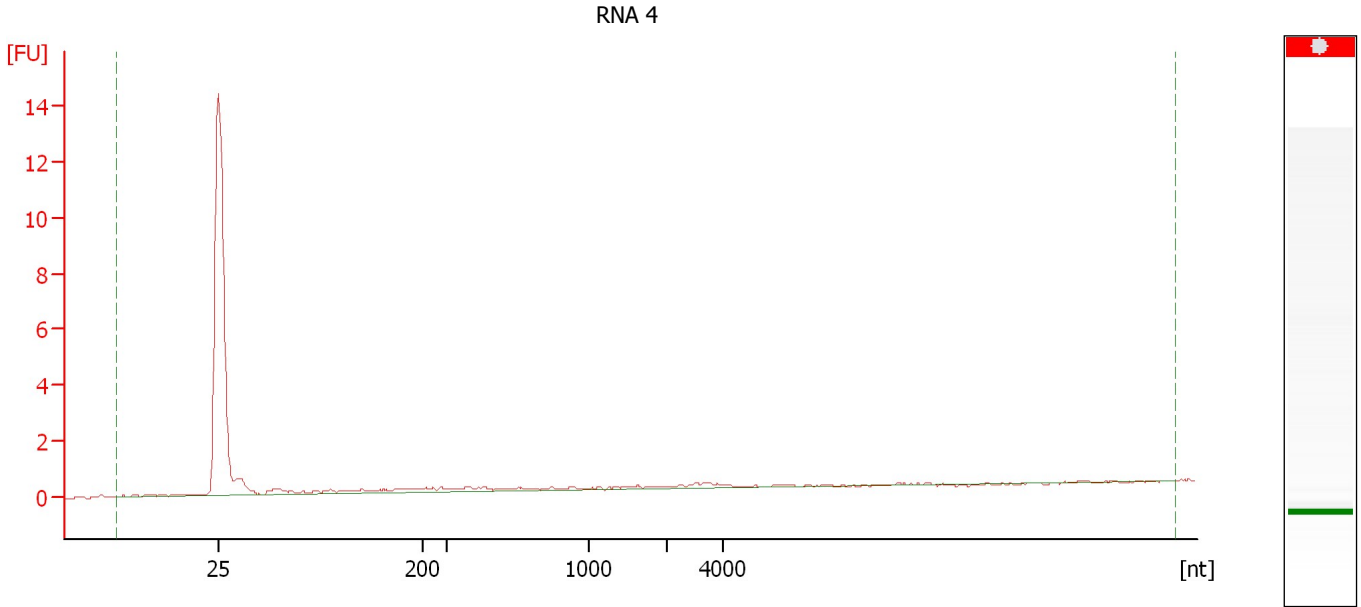
Overall Results for sample 3 : RNA 3

RNA Area:	26.7	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	28 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Electropherogram Summary Continued ...



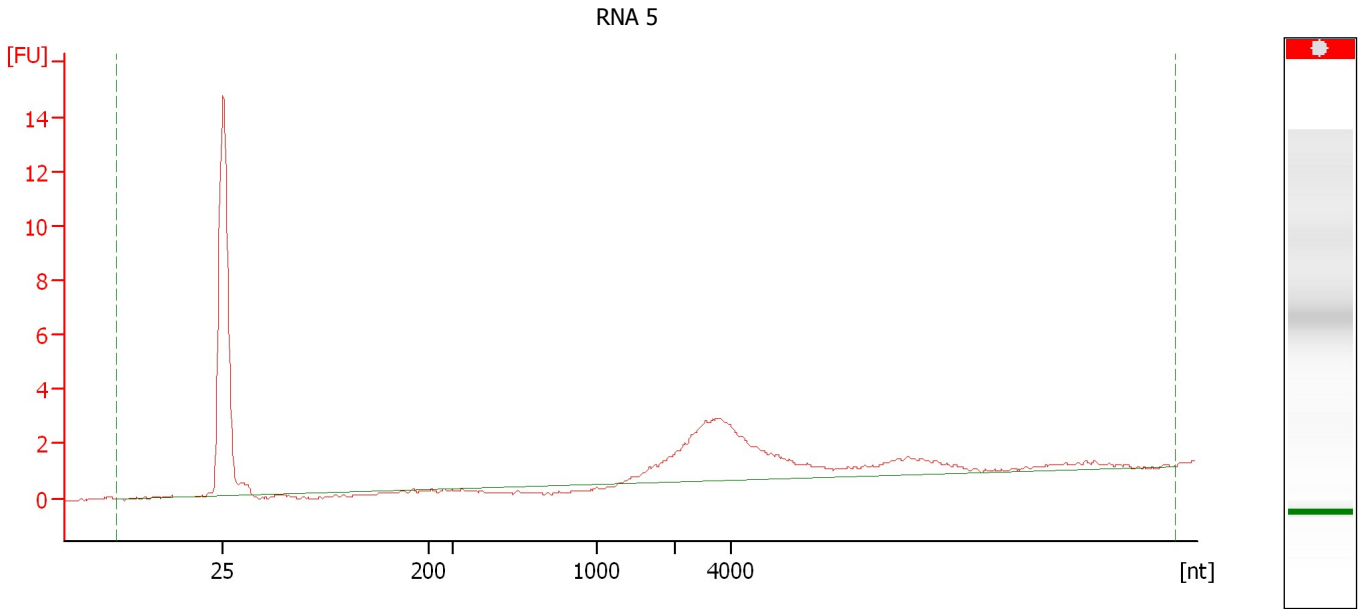
Overall Results for sample 4 : RNA 4

RNA Area:	7.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Electropherogram Summary Continued ...



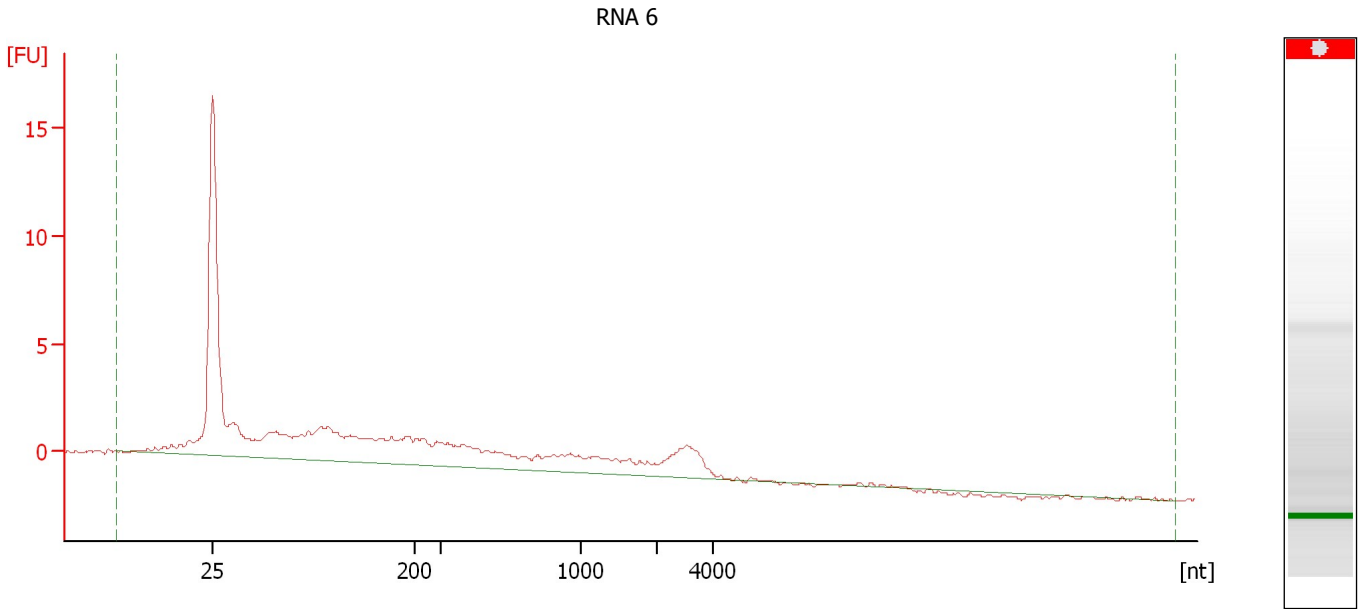
Overall Results for sample 5 : RNA 5

RNA Area:	28.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	29 pg/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Electropherogram Summary Continued ...



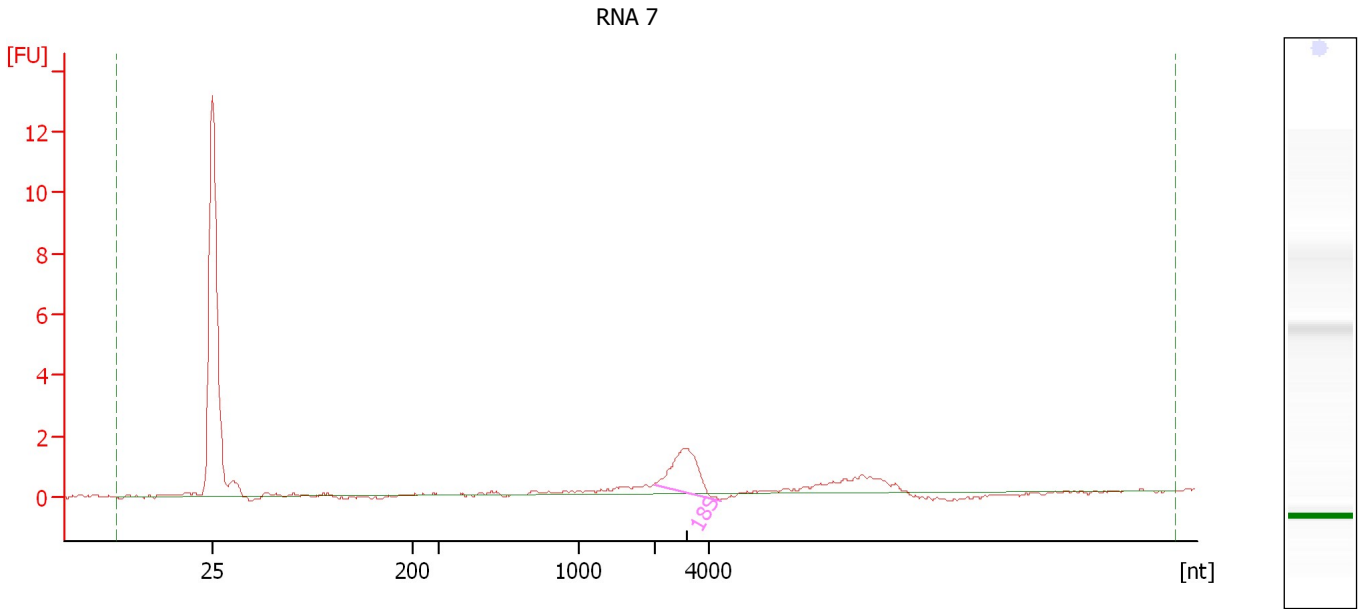
Overall Results for sample 6 : RNA 6

RNA Area:	69.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	73 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : RNA 7

RNA Area:	12.8	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	13 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.70

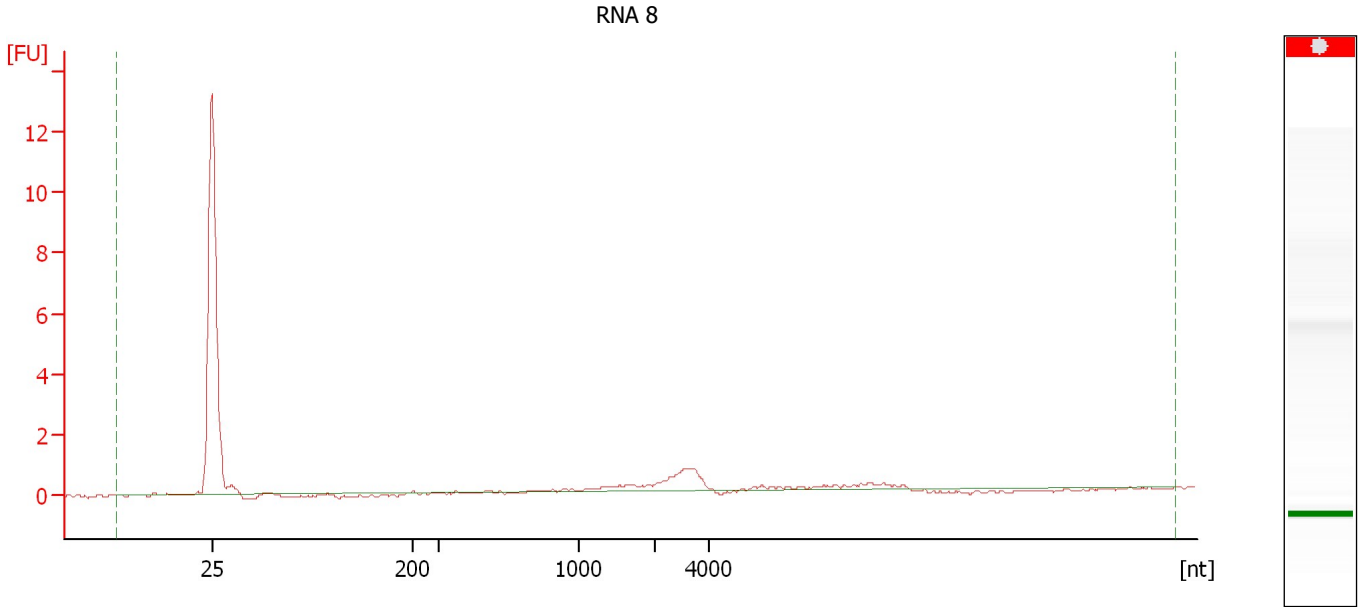
Fragment table for sample 7 : RNA 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,993	4,393	4.3	33.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Electropherogram Summary Continued ...



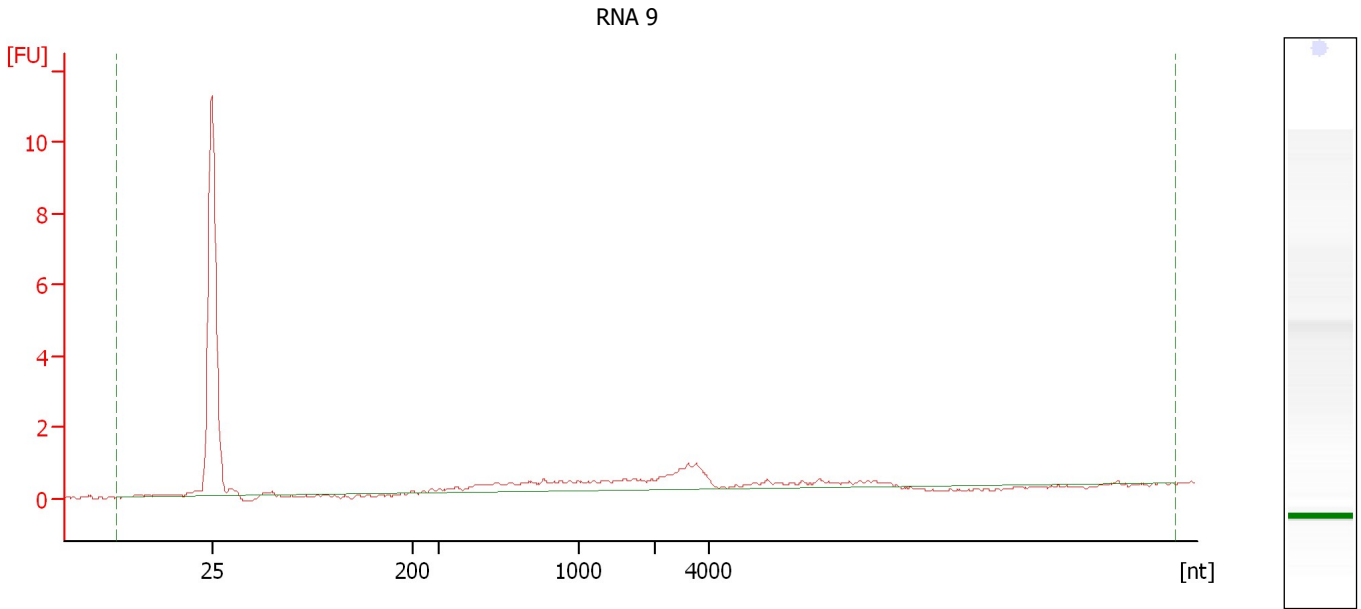
Overall Results for sample 8 : RNA 8

RNA Area:	7.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Electropherogram Summary Continued ...



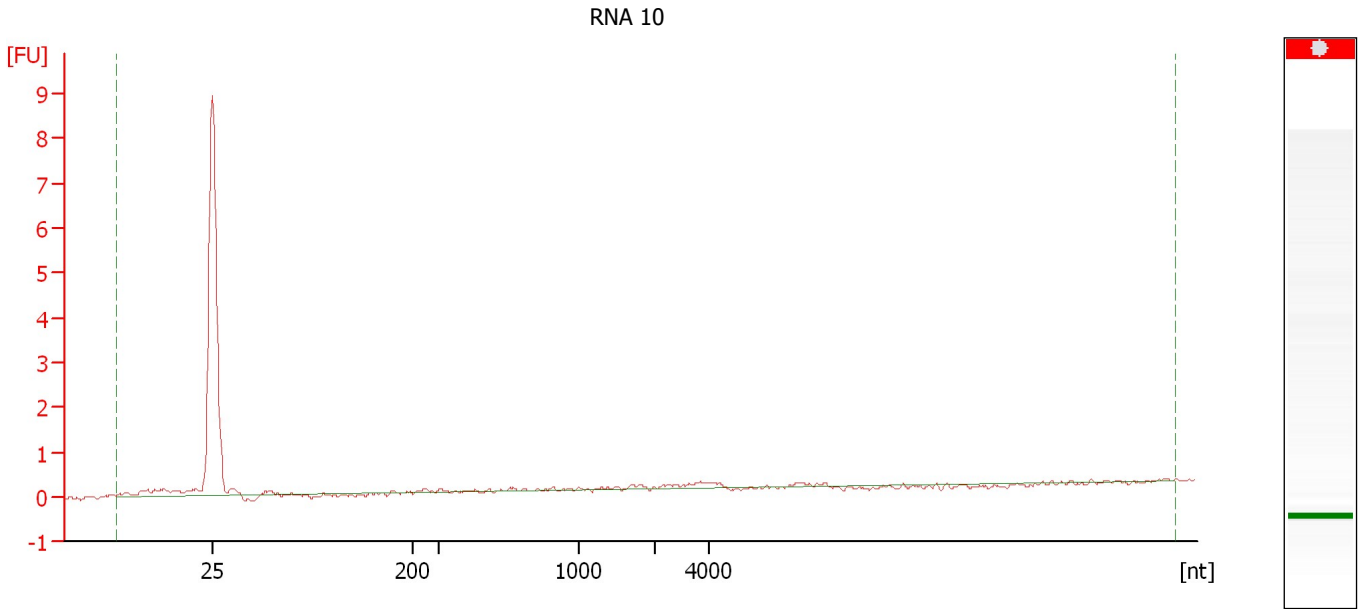
Overall Results for sample 9 : RNA 9

RNA Area:	12.5	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	13 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Electropherogram Summary Continued ...



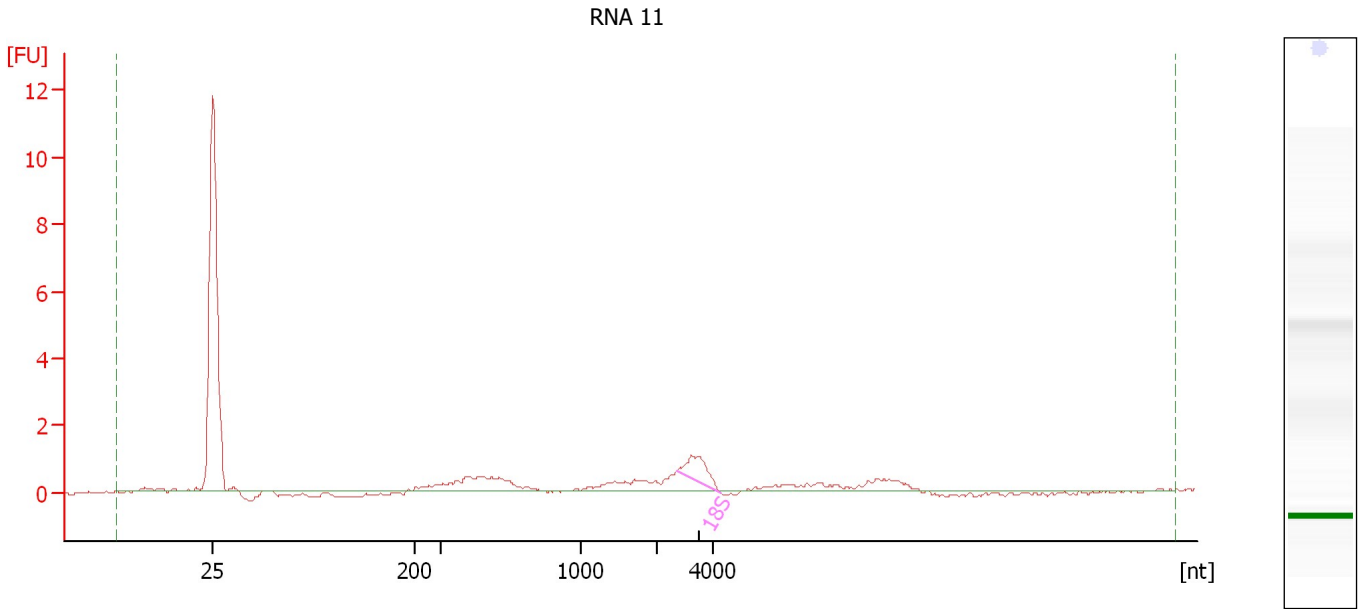
Overall Results for sample 10 : RNA 10

RNA Area:	3.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	4 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : RNA 11

RNA Area:	12.9	RNA Integrity Number (RIN):	5.8 (B.02.08)
RNA Concentration:	14 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.80

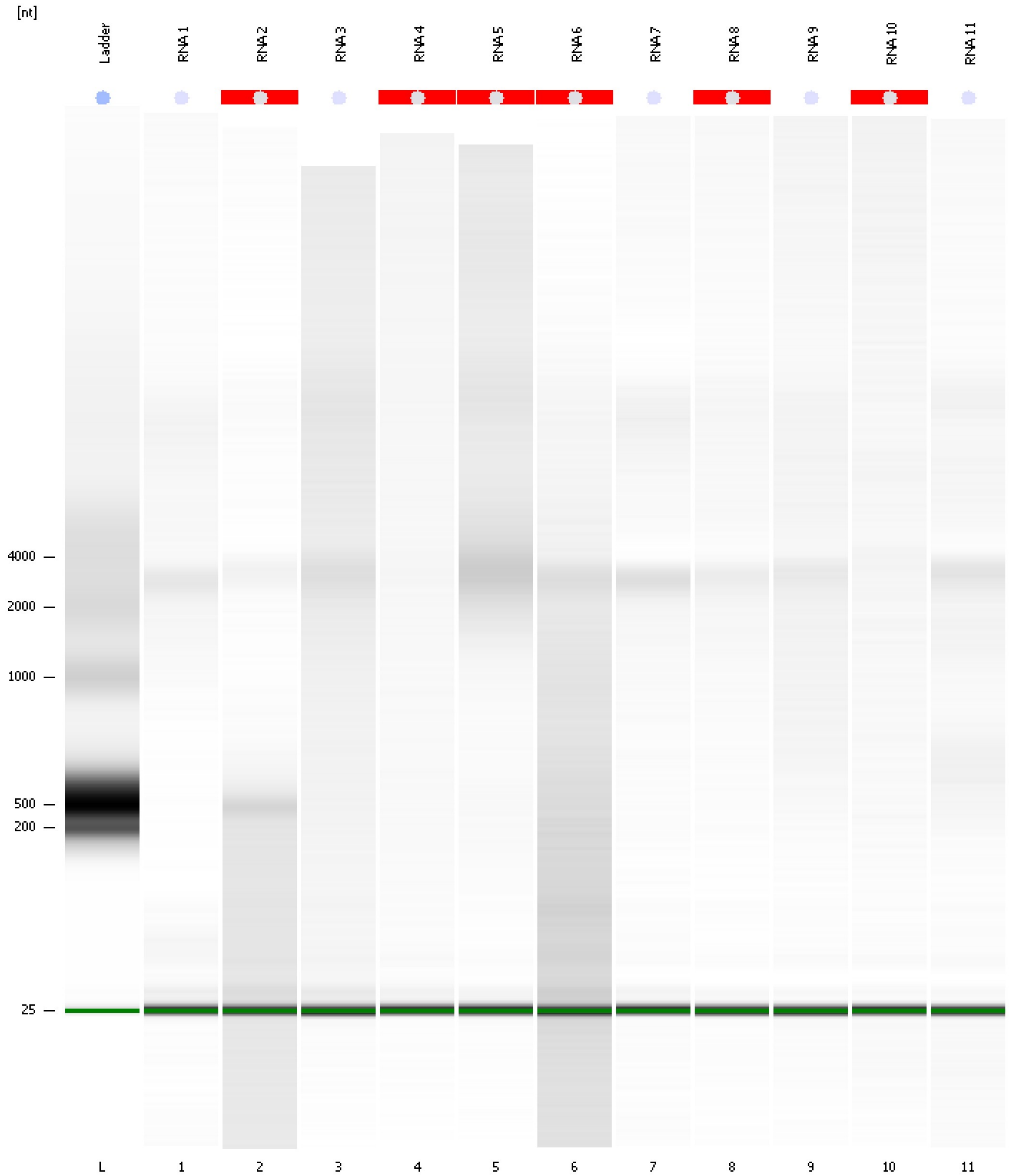
Fragment table for sample 11 : RNA 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,724	4,354	1.8	13.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Gel Image

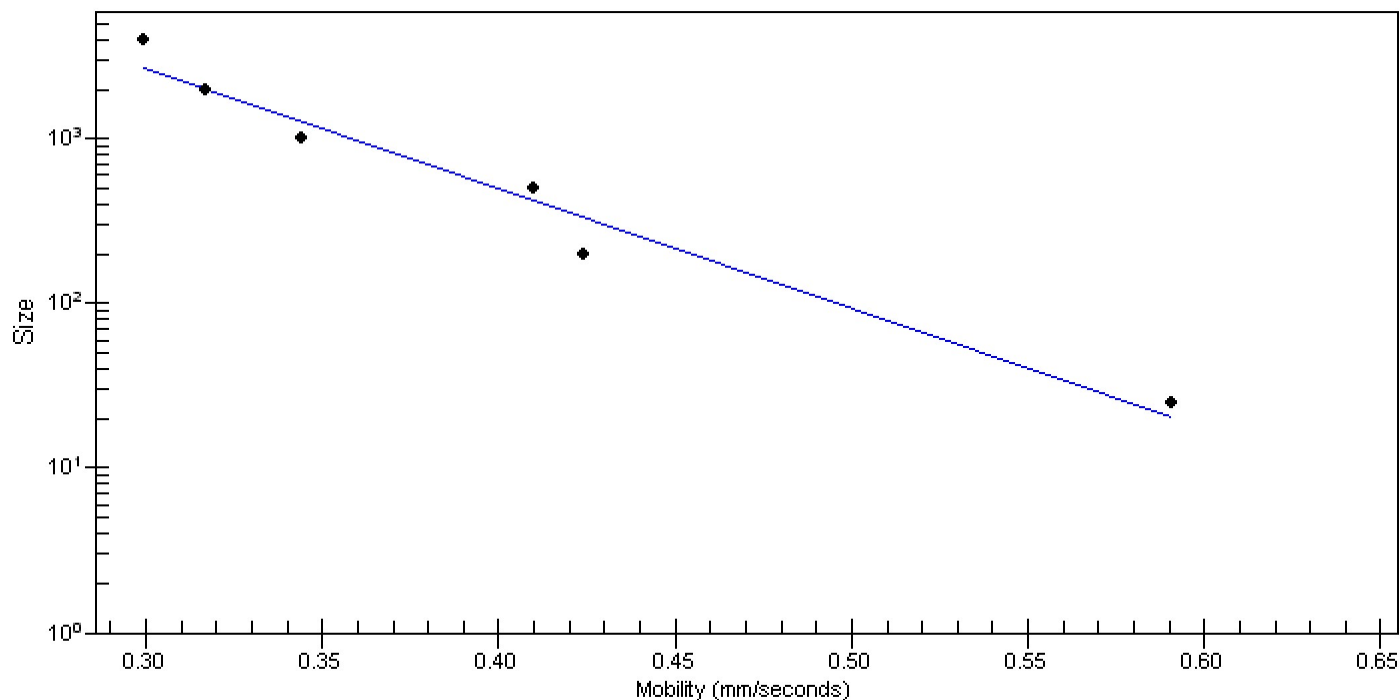


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
Modified: 7/8/2016 10:57:05 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad

Created: 7/8/2016 10:34:12 AM
 Modified: 7/8/2016 10:57:05 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		7/8/2016 10:57:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_002.xad)		Instrument	Run		7/8/2016 10:34:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/8/2016 10:34:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/8/2016 10:34:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/8/2016 10:34:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/8/2016 10:34:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/8/2016 10:34:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/8/2016 10:34:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1