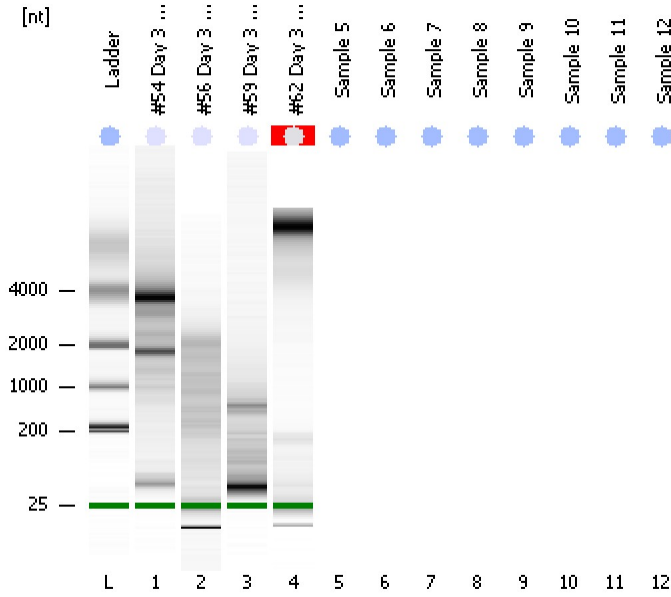


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-09\2019-05-09_001.xad

Created: 5/9/2019 9:50:01 AM
Modified: 5/9/2019 10:09:00 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

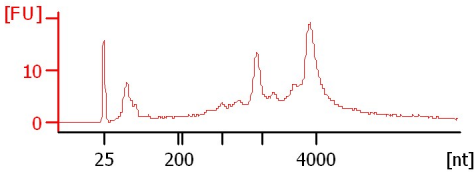
Assay Information:

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.

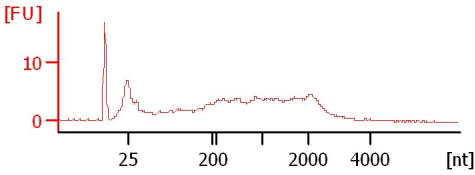
Chip Information:

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

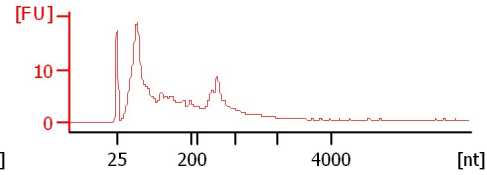
#54 Day 3 Fracture
RIN: 8.10



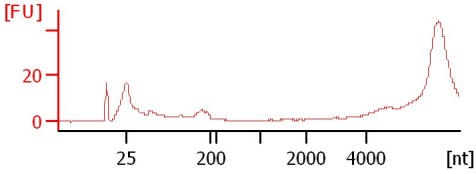
#56 Day 3 Control
RIN: 3.10



#59 Day 3 Fracture
RIN: 2.30



#62 Day 3 Control
RIN N/A



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-09\2019-05-09_001.xad

Created: 5/9/2019 9:50:01 AM
Modified: 5/9/2019 10:09:00 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
#54 Day 3 Fracture		✓	RIN: 8.10	
#56 Day 3 Control		✓	RIN: 3.10	
#59 Day 3 Fracture		✓	RIN: 2.30	
#62 Day 3 Control		✓	RIN N/A	
Sample 5				
Sample 6				
Sample 7				
Sample 8				
Sample 9				
Sample 10				
Sample 11				
Sample 12				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-09\2019-05-09_001.xad

Created: 5/9/2019 9:50:01 AM
Modified: 5/9/2019 10:09:00 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

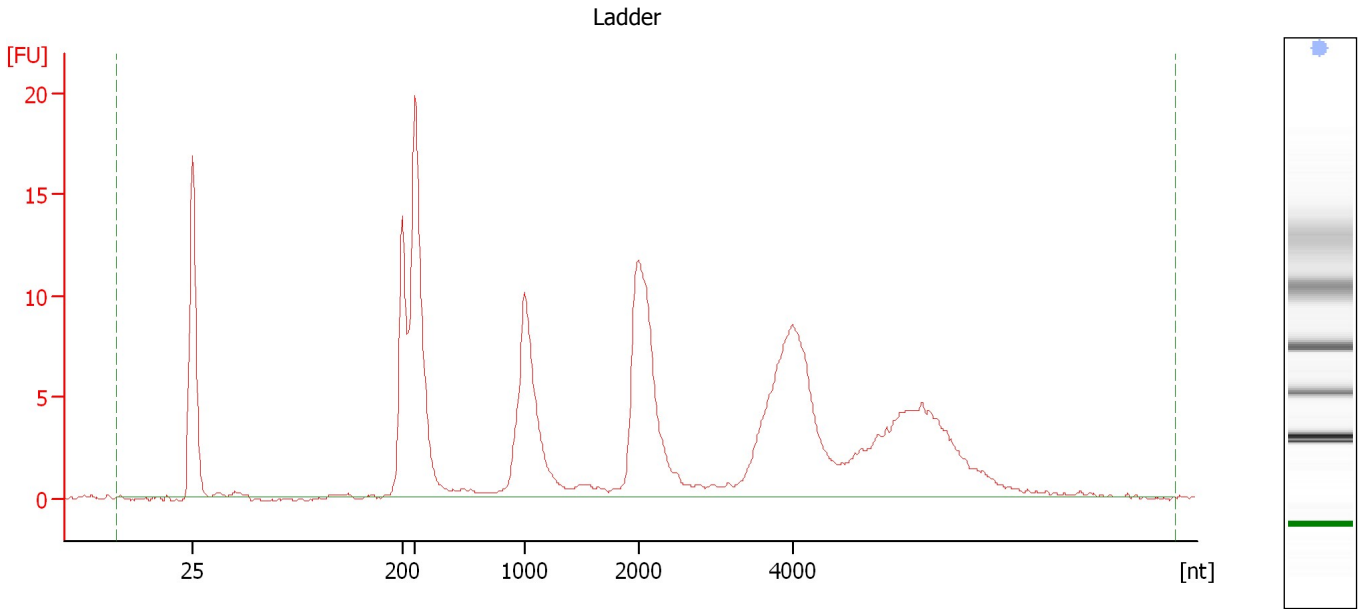
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-09\2019-05-09_001.xad

Created: 5/9/2019 9:50:01 AM
Modified: 5/9/2019 10:09:00 AM

Electropherogram Summary



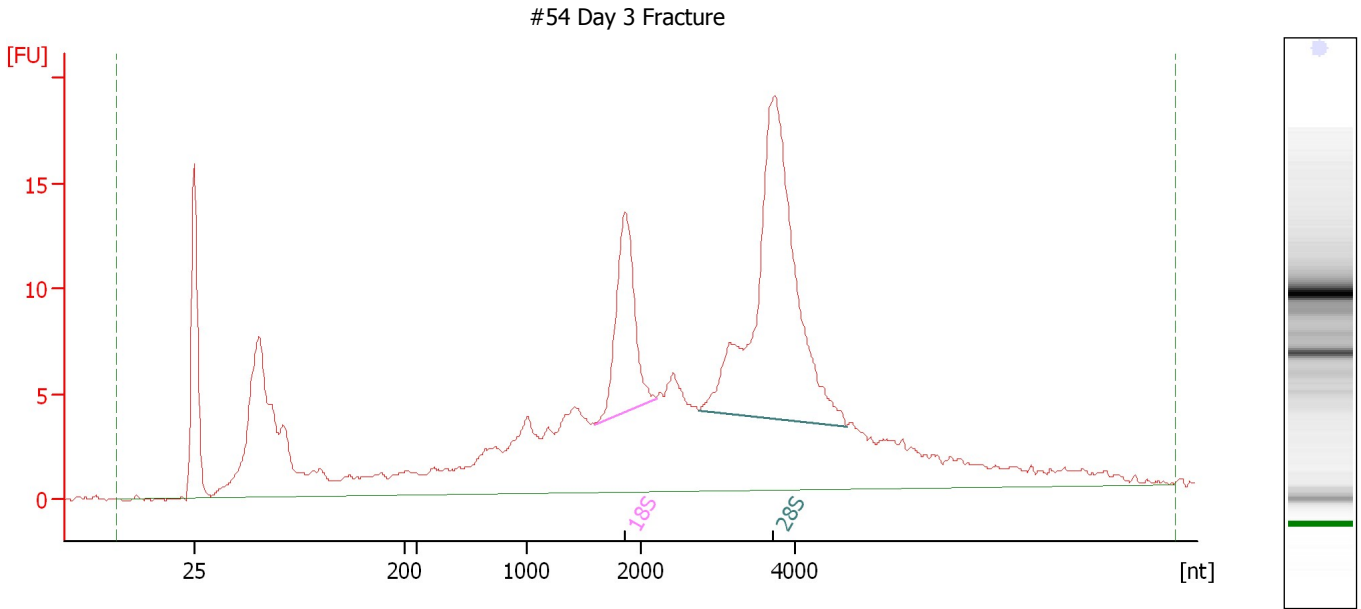
Overall Results for Ladder

RNA Area:	198.4	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-09\2019-05-09_001.xad

Created: 5/9/2019 9:50:01 AM
Modified: 5/9/2019 10:09:00 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : #54 Day 3 Fracture

RNA Area: 319.8 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 242 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 3.0 Result Flagging Label: RIN: 8.10

Fragment table for sample 1 : #54 Day 3 Fracture

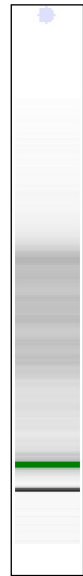
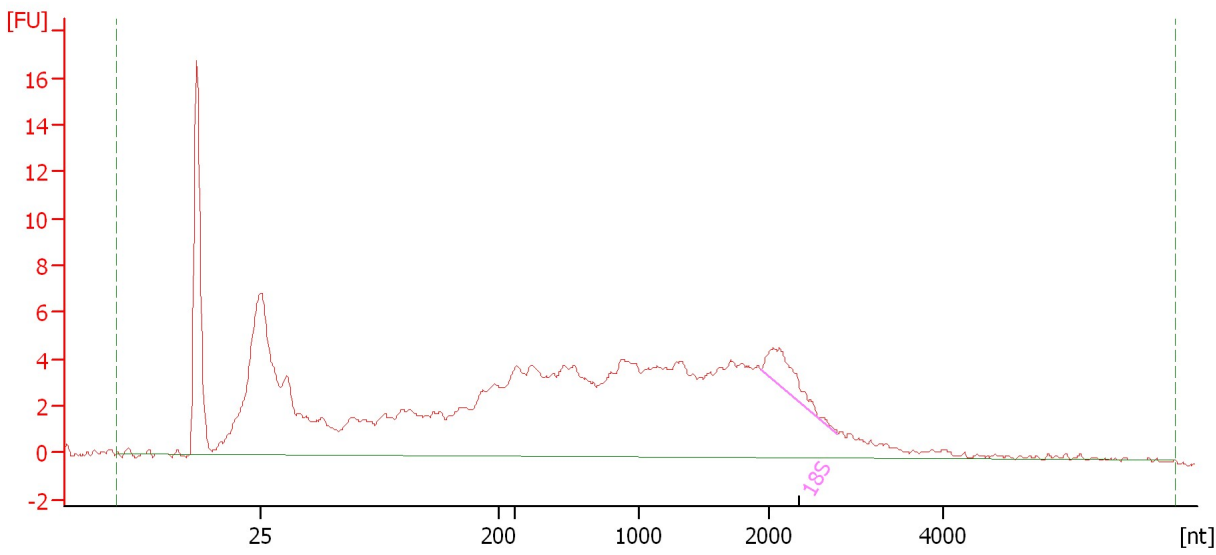
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,599	2,209	21.2	6.6
28S	2,749	4,676	64.5	20.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-09\2019-05-09_001.xad

Created: 5/9/2019 9:50:01 AM
Modified: 5/9/2019 10:09:00 AM

Electropherogram Summary Continued ...

#56 Day 3 Control



Overall Results for sample 2 : #56 Day 3 Control

RNA Area:	215.4	RNA Integrity Number (RIN):	3.1 (B.02.08)
RNA Concentration:	163 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.10

Fragment table for sample 2 : #56 Day 3 Control

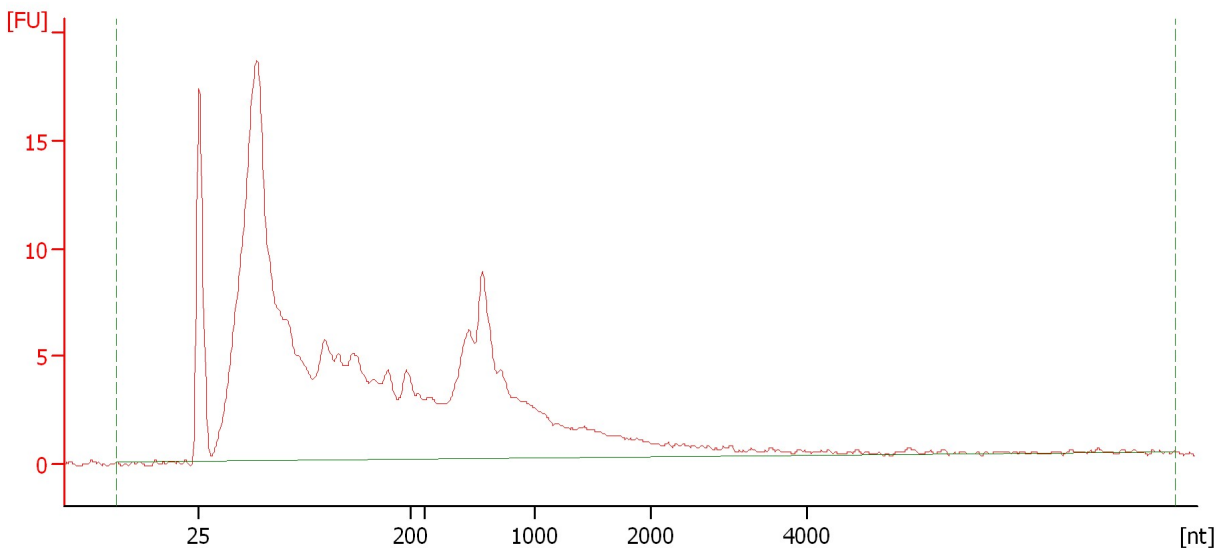
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,943	2,781	4.7	2.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-09\2019-05-09_001.xad

Created: 5/9/2019 9:50:01 AM
Modified: 5/9/2019 10:09:00 AM

Electropherogram Summary Continued ...

#59 Day 3 Fracture



Overall Results for sample 3 : #59 Day 3 Fracture

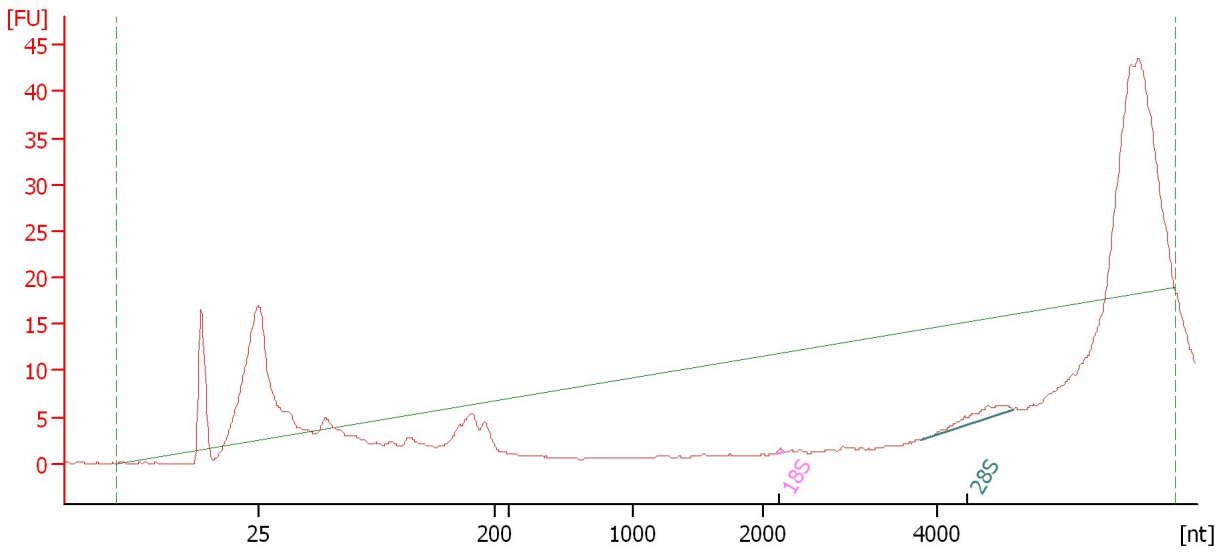
RNA Area:	282.6	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	214 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-09\2019-05-09_001.xad

Created: 5/9/2019 9:50:01 AM
 Modified: 5/9/2019 10:09:00 AM

Electropherogram Summary Continued ...

#62 Day 3 Control



Overall Results for sample 4 : #62 Day 3 Control

RNA Area:	92.1	RNA Integrity Number (RIN):	N/A (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	70 ng/μl		
rRNA Ratio [28s / 18s]:	20.2	Result Flagging Color:	
		Result Flagging Label:	RIN N/A

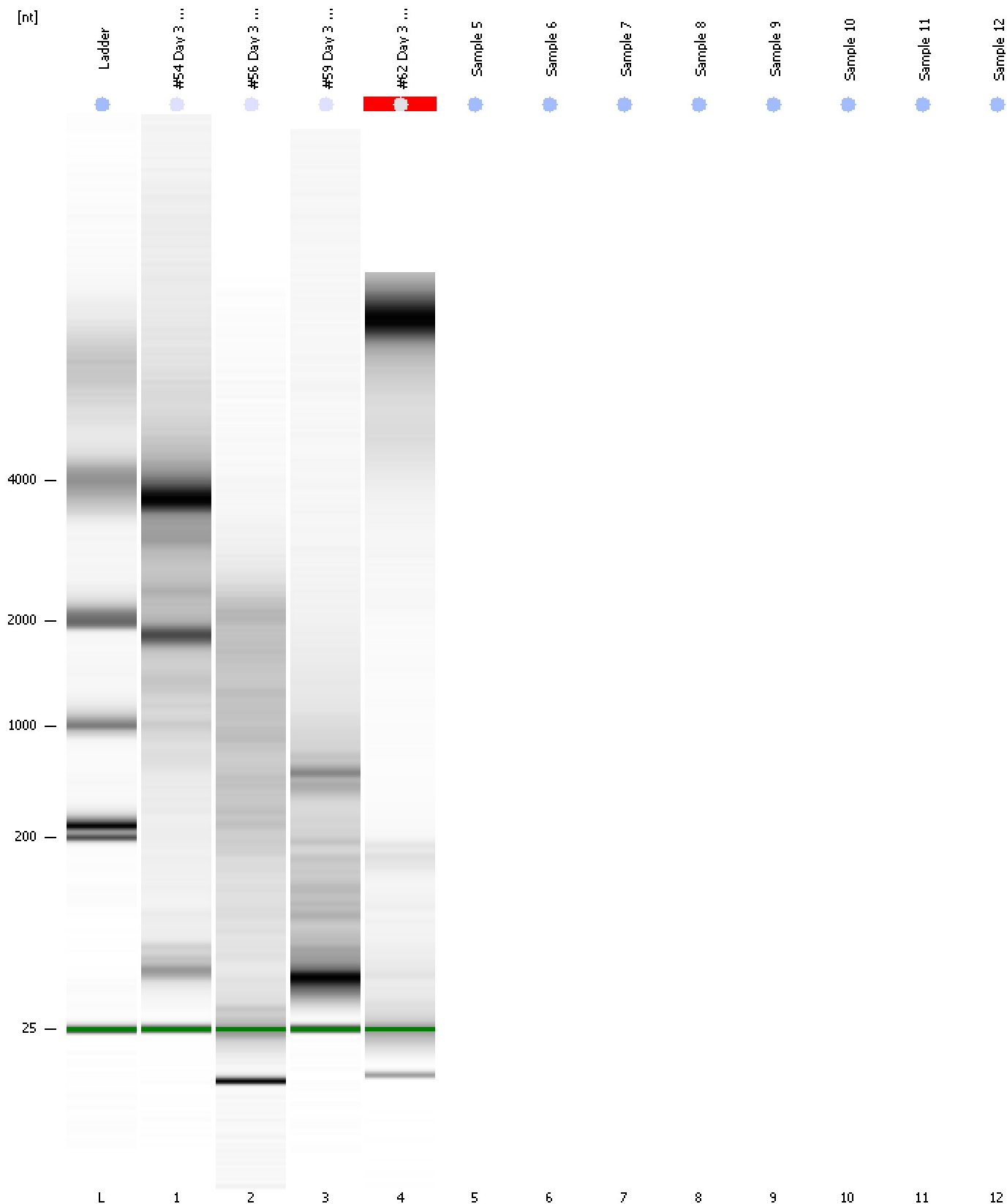
Fragment table for sample 4 : #62 Day 3 Control

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,145	2,267	0.2	0.2
28S	3,813	4,880	4.3	4.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-09\2019-05-09_001.xad

Created: 5/9/2019 9:50:01 AM
Modified: 5/9/2019 10:09:00 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-09\2019-05-09_001.xad

Created: 5/9/2019 9:50:01 AM
Modified: 5/9/2019 10:09:00 AM

Invalid Samples

- Sample 5 has not been run, no results available.
- Sample 6 has not been run, no results available.
- Sample 7 has not been run, no results available.
- Sample 8 has not been run, no results available.
- Sample 9 has not been run, no results available.
- Sample 10 has not been run, no results available.
- 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:\... bioanalyzer\2100 expert\data\2019-05-09\2019-05-09_001.xad

Created: 5/9/2019 9:50:01 AM
 Modified: 5/9/2019 10:09:00 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 5)		Instrument	Run		5/9/2019 10:02:52 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\2019-05-09\2019-05-09_001.xad)		Instrument	Run		5/9/2019 9:50:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		5/9/2019 9:50:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/9/2019 9:50:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/9/2019 9:50:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		5/9/2019 9:50:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/9/2019 9:50:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/9/2019 9:50:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1