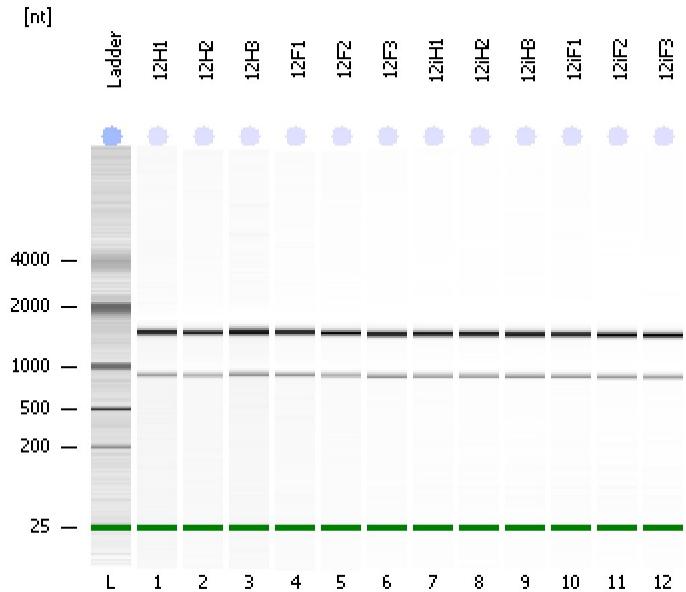


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
Modified: 9/6/2019 11:53:24 AM

Electrophoresis File Run Summary



Instrument Information:

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

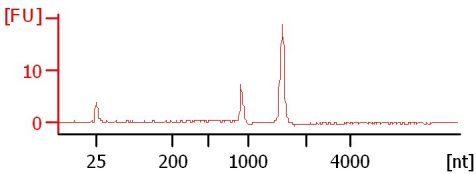
Assay Information:

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.

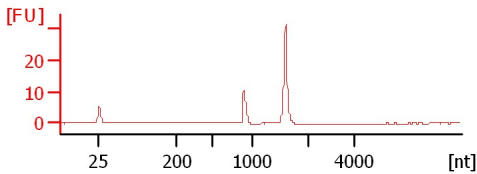
Chip Information:

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

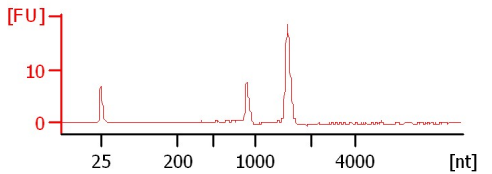
12H1
RIN: 8.40



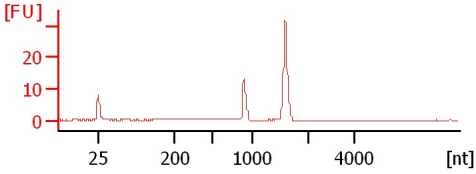
12H2
RIN: 8.10



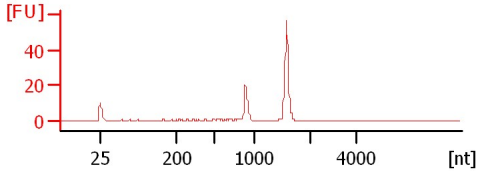
12H3
RIN: 8.70



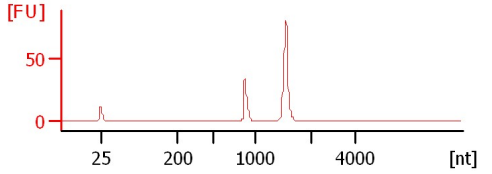
12F1
RIN: 8.70



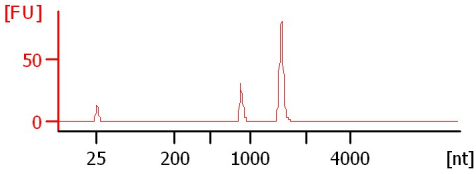
12F2
RIN: 8.60



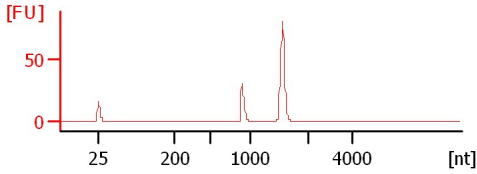
12F3
RIN: 9.20



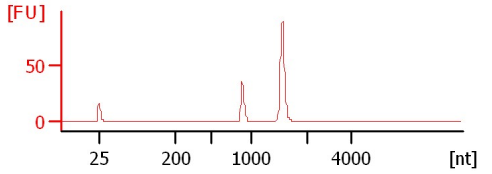
12iH1
RIN: 9.10



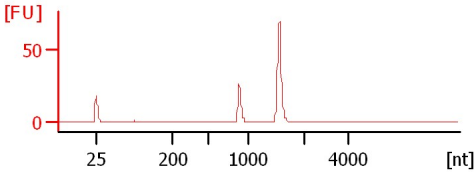
12iH2
RIN: 9.30



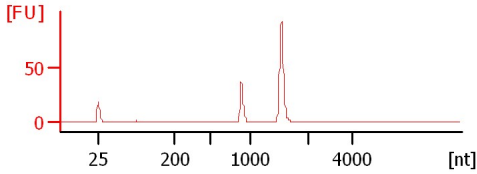
12iH3
RIN: 9.50



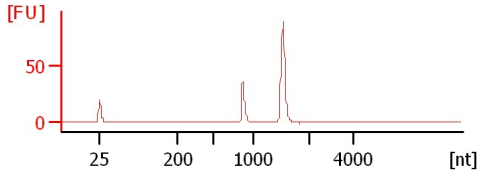
12iF1
RIN: 9.40



12iF2
RIN: 9.50



12iF3
RIN: 9.50



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
 Modified: 9/6/2019 11:53:24 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
12H1		✓	RIN: 8.40	
12H2		✓	RIN: 8.10	
12H3		✓	RIN: 8.70	
12F1		✓	RIN: 8.70	
12F2		✓	RIN: 8.60	
12F3		✓	RIN: 9.20	
12iH1		✓	RIN: 9.10	
12iH2		✓	RIN: 9.30	
12iH3		✓	RIN: 9.50	
12iF1		✓	RIN: 9.40	
12iF2		✓	RIN: 9.50	
12iF3		✓	RIN: 9.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
Modified: 9/6/2019 11:53:24 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ μ l] : 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

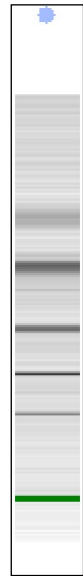
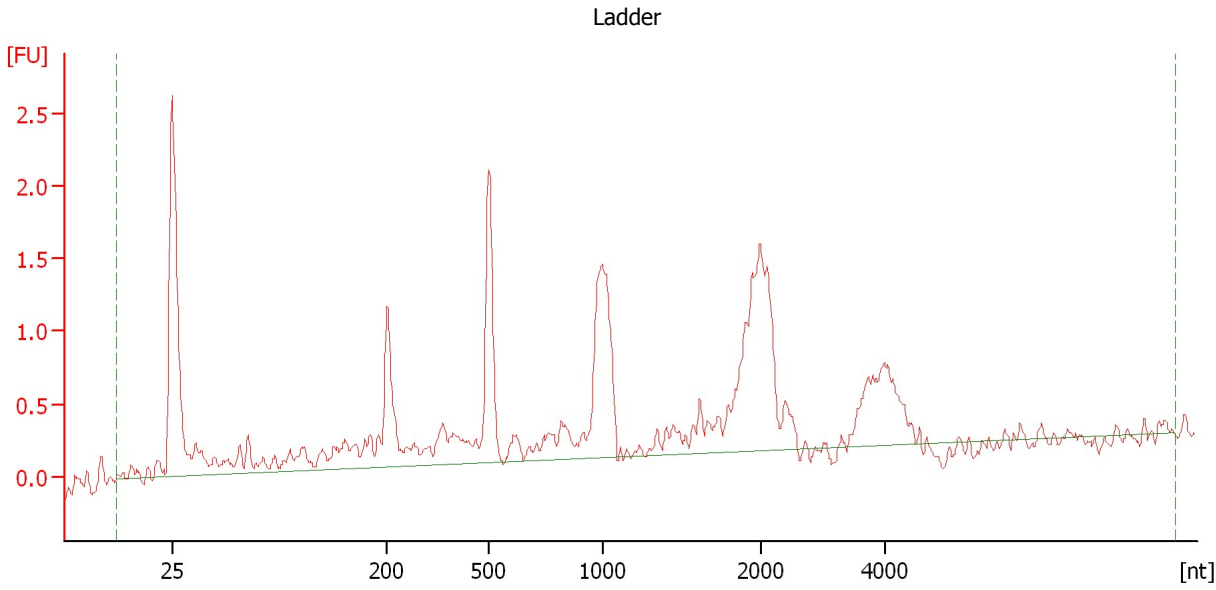
Ladder

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\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
Modified: 9/6/2019 11:53:24 AM

Electropherogram Summary



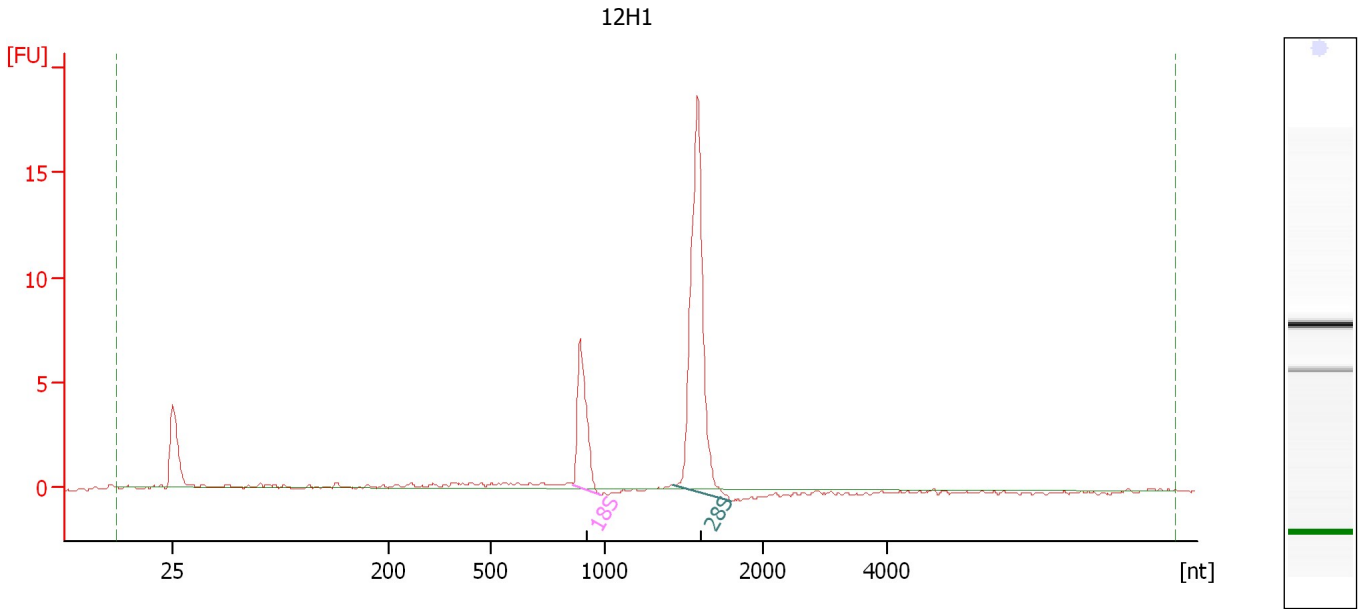
Overall Results for Ladder

RNA Area:	20.9	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\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
Modified: 9/6/2019 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 12H1

RNA Area:	40.0	RNA Integrity Number (RIN):	8.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	287 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.3	Result Flagging Label:	RIN: 8.40

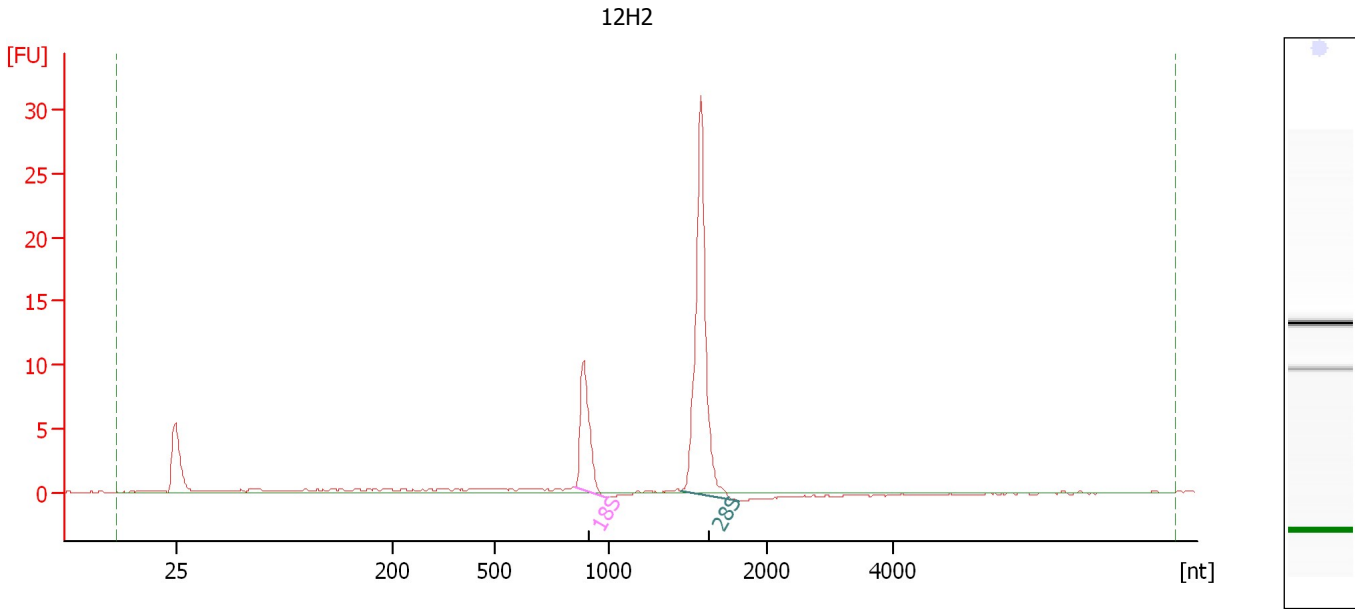
Fragment table for sample 1 : 12H1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	863	981	8.0	20.0
28S	1,432	1,802	26.1	65.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
Modified: 9/6/2019 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 12H2

RNA Area:	58.9	RNA Integrity Number (RIN):	8.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	423 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.1	Result Flagging Label:	RIN: 8.10

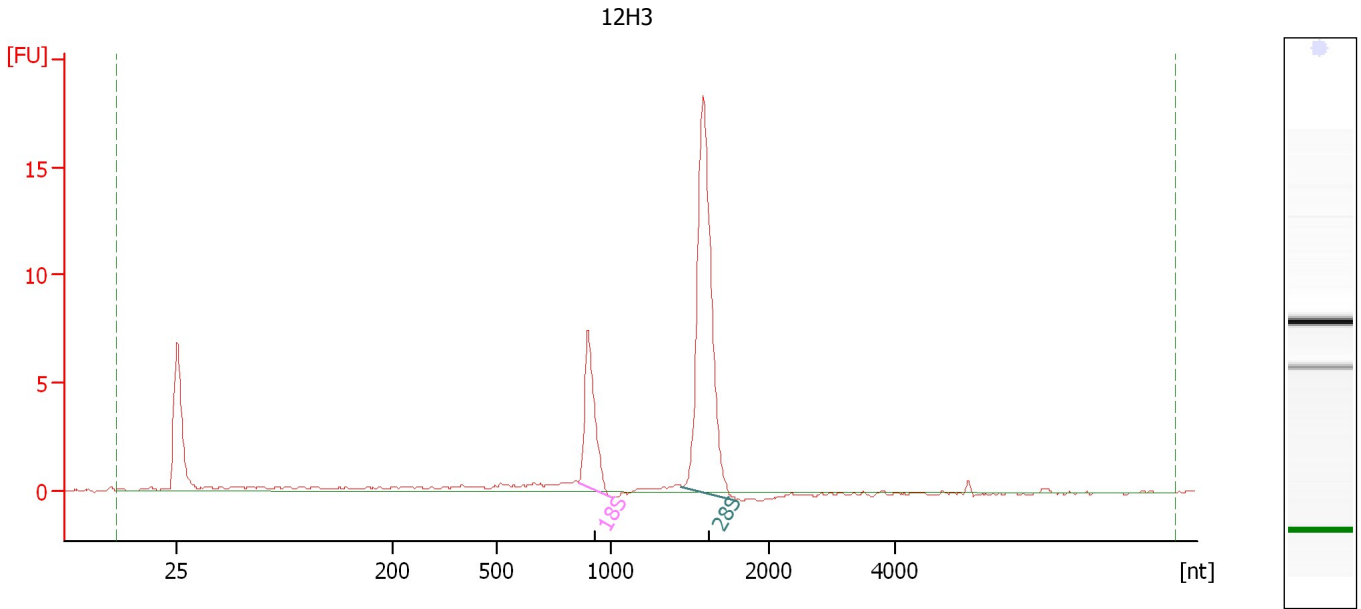
Fragment table for sample 2 : 12H2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	856	982	11.7	19.8
28S	1,451	1,827	35.9	60.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
Modified: 9/6/2019 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 12H3

RNA Area: 49.9 RNA Integrity Number (RIN): 8.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 358 ng/μl
rRNA Ratio [28s / 18s]: 3.1
Result Flagging Color:
Result Flagging Label: RIN: 8.70

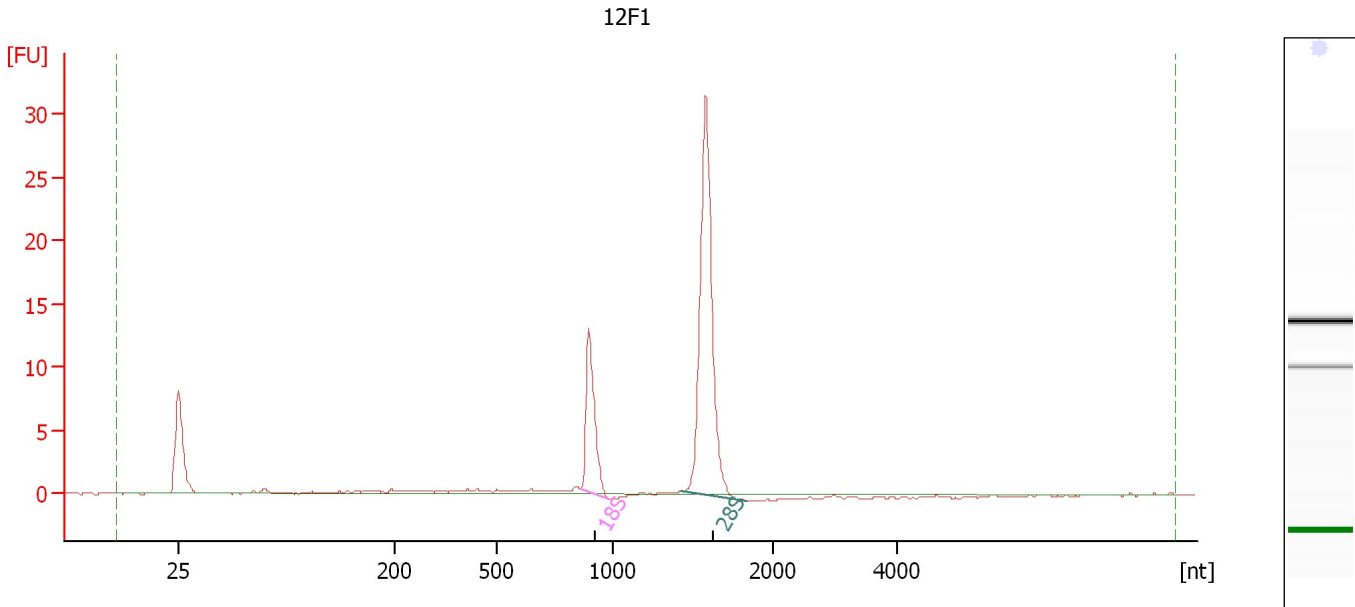
Fragment table for sample 3 : 12H3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	861	1,002	9.5	19.1
28S	1,444	1,792	29.9	60.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
 Modified: 9/6/2019 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 12F1

RNA Area:	64.4	RNA Integrity Number (RIN):	8.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	462 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.9	Result Flagging Label:	RIN: 8.70

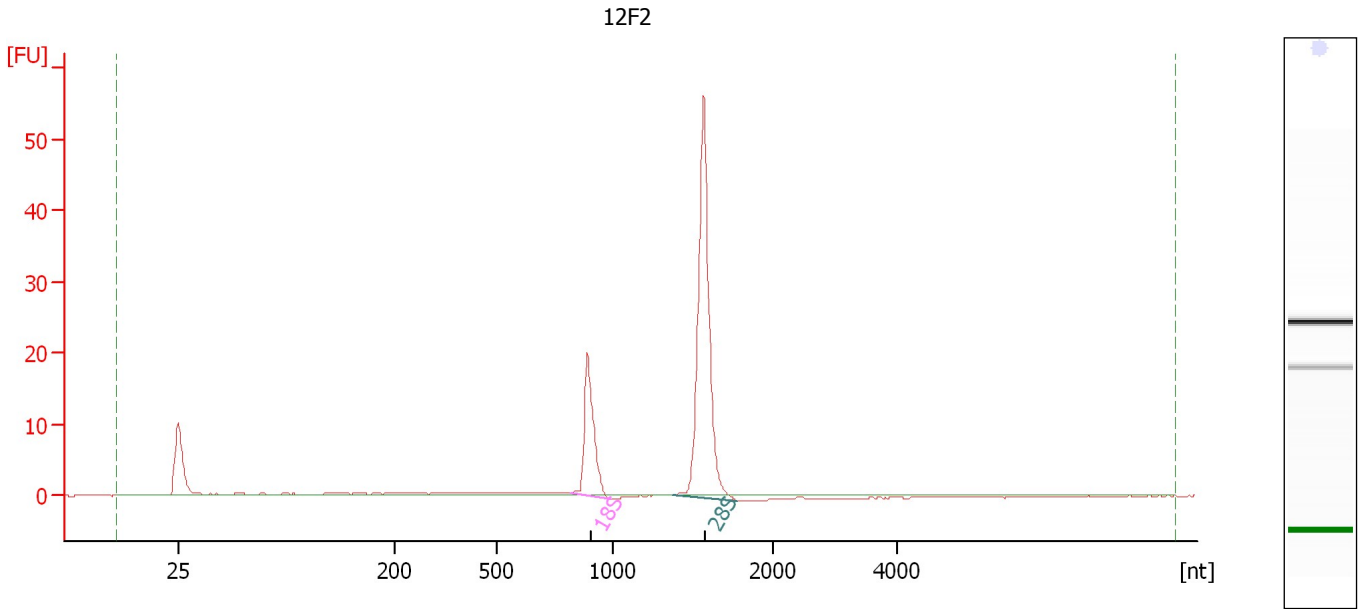
Fragment table for sample 4 : 12F1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	866	983	14.7	22.8
28S	1,430	1,844	42.6	66.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
Modified: 9/6/2019 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 12F2

RNA Area:	105.7	RNA Integrity Number (RIN):	8.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	759 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.9	Result Flagging Label:	RIN: 8.60

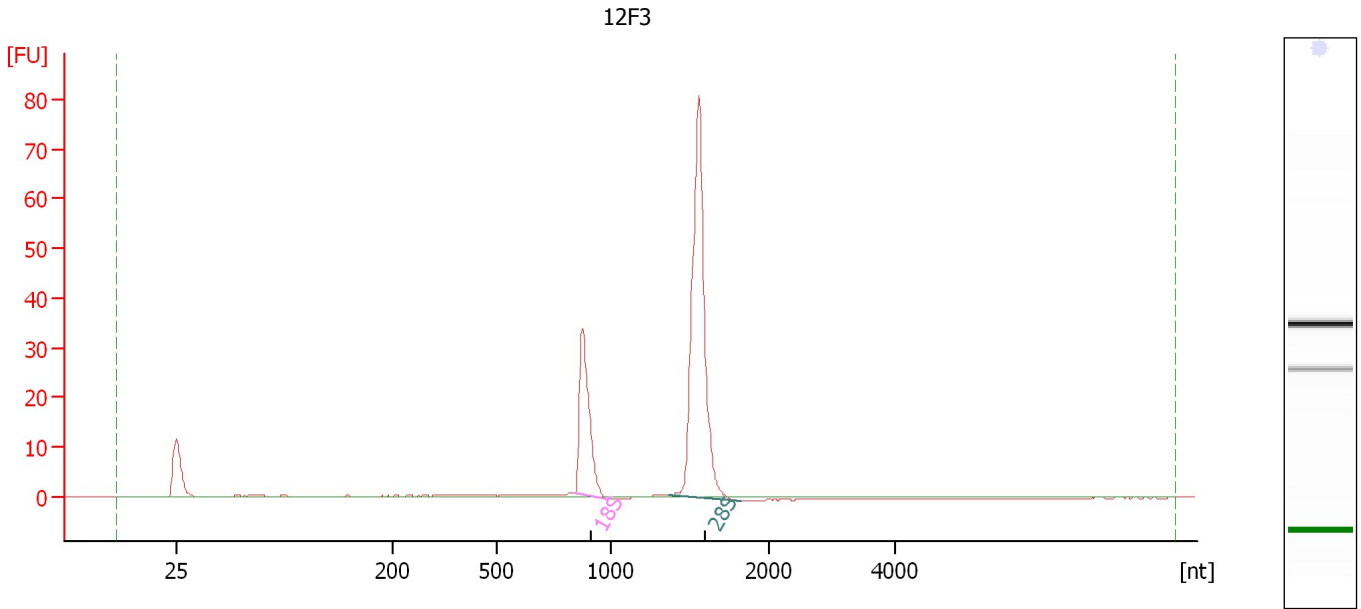
Fragment table for sample 5 : 12F2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	815	997	24.2	22.9
28S	1,383	1,778	69.8	66.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
Modified: 9/6/2019 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 12F3

RNA Area:	163.4	RNA Integrity Number (RIN):	9.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,172 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.8	Result Flagging Label:	RIN: 9.20

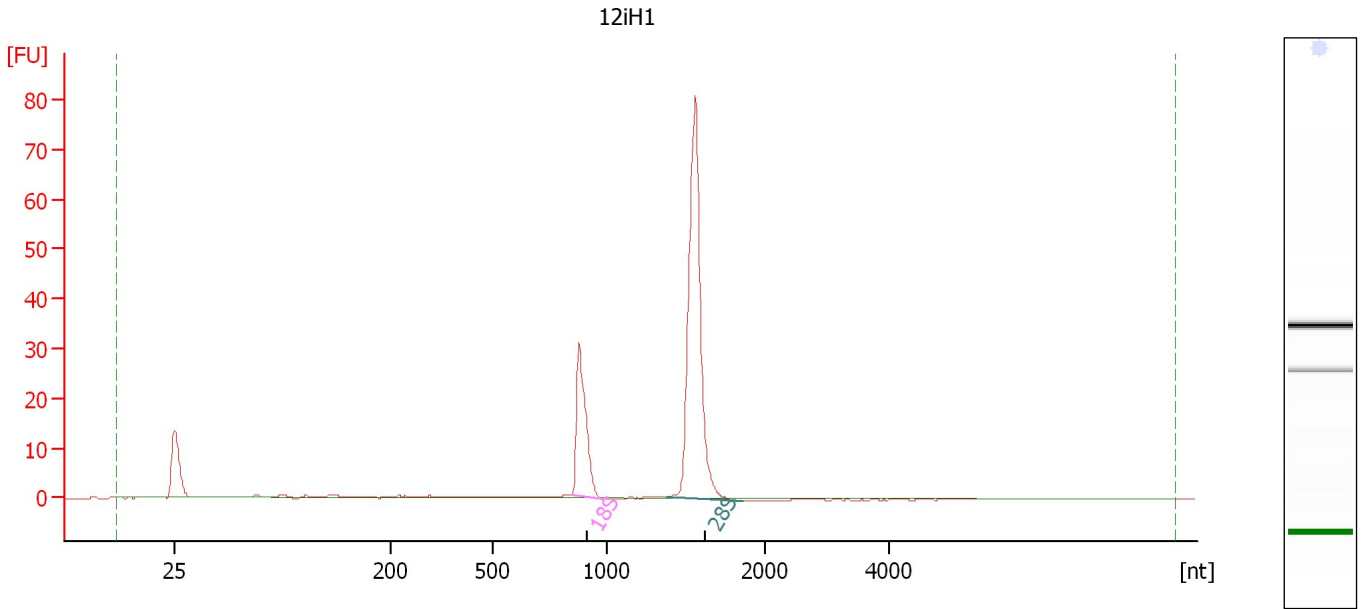
Fragment table for sample 6 : 12F3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	847	982	40.8	25.0
28S	1,370	1,819	113.3	69.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
Modified: 9/6/2019 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 12iH1

RNA Area:	152.8	RNA Integrity Number (RIN):	9.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,097 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.9	Result Flagging Label:	RIN: 9.10

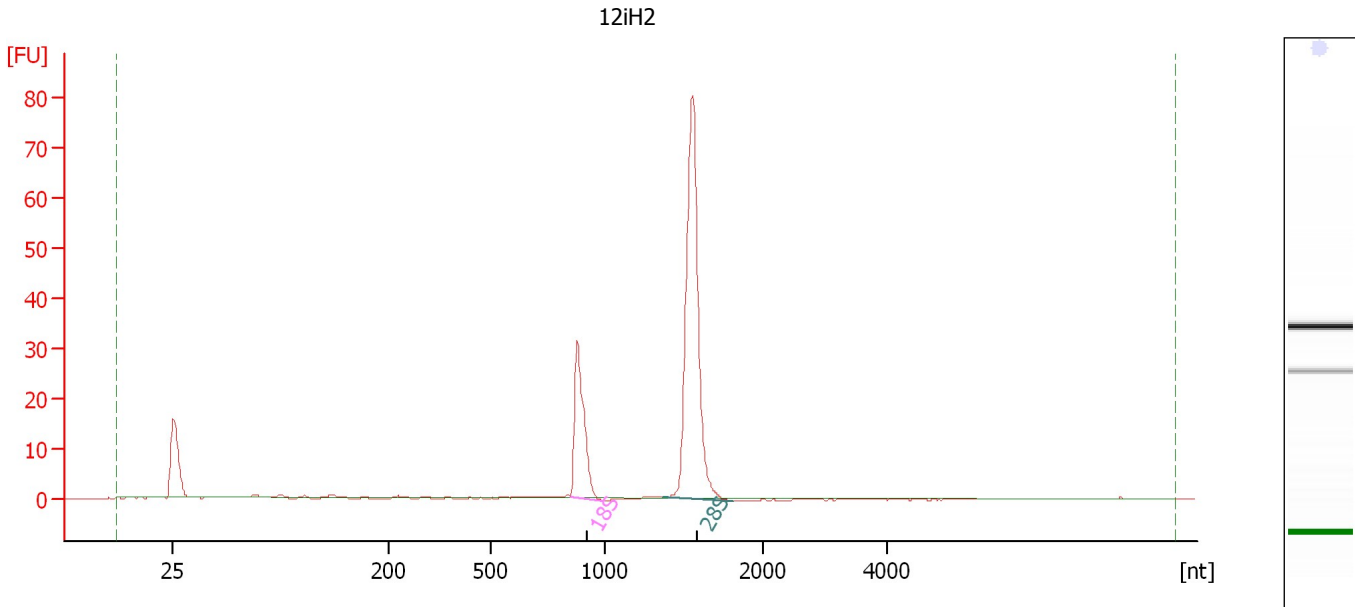
Fragment table for sample 7 : 12iH1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	850	986	36.7	24.0
28S	1,377	1,855	107.5	70.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
 Modified: 9/6/2019 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 12iH2

RNA Area:	156.1	RNA Integrity Number (RIN):	9.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,120 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.9	Result Flagging Label:	RIN: 9.30

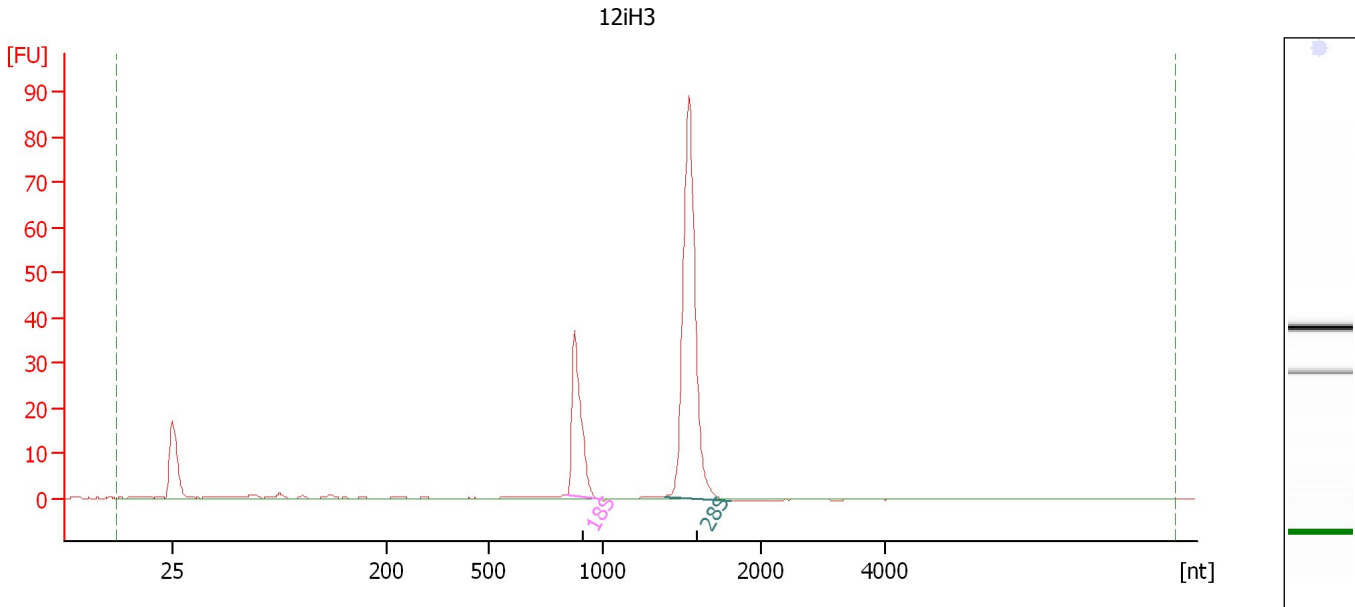
Fragment table for sample 8 : 12iH2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	849	991	38.2	24.5
28S	1,371	1,816	109.7	70.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
 Modified: 9/6/2019 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 12iH3

RNA Area:	182.7	RNA Integrity Number (RIN):	9.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,311 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.9	Result Flagging Label:	RIN: 9.50

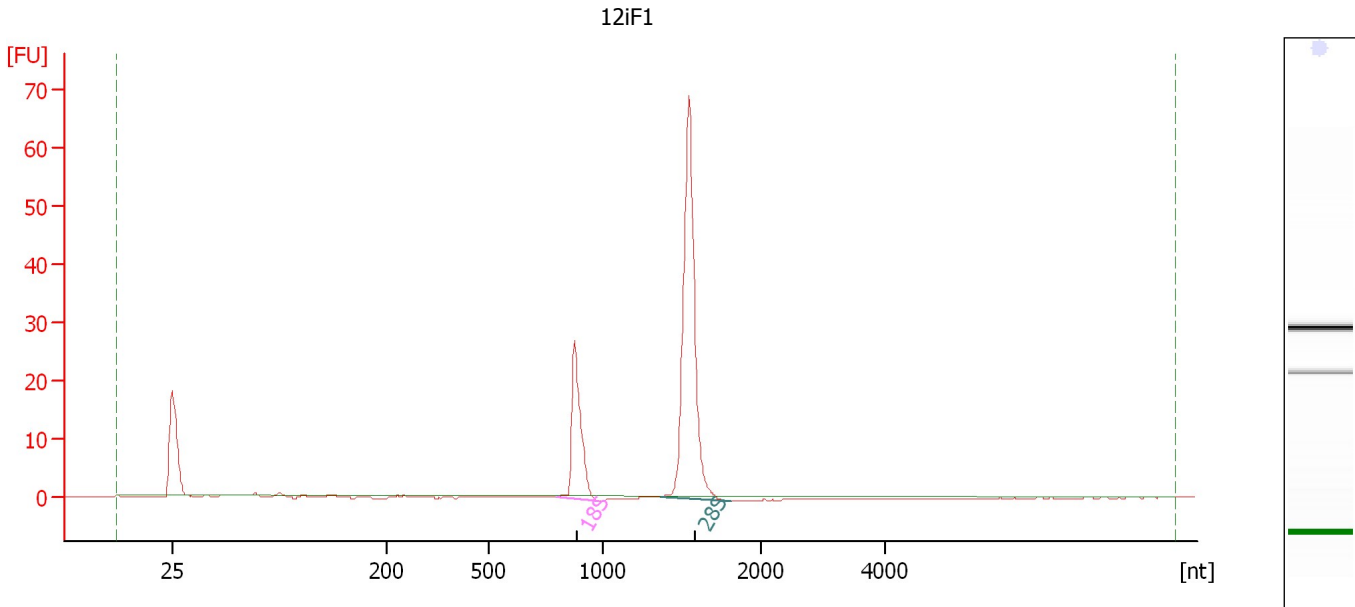
Fragment table for sample 9 : 12iH3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	844	990	44.0	24.1
28S	1,391	1,817	126.0	69.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
 Modified: 9/6/2019 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 12iF1

RNA Area:	119.9	RNA Integrity Number (RIN):	9.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	861 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.8	Result Flagging Label:	RIN: 9.40

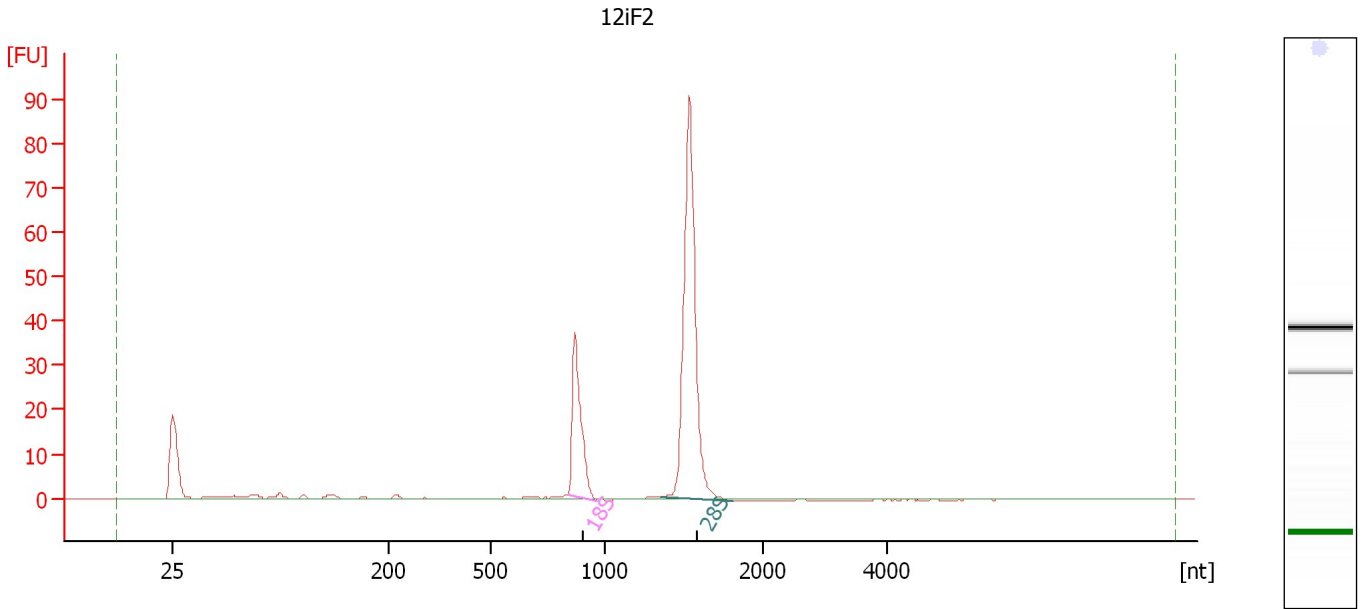
Fragment table for sample 10 : 12iF1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	801	985	32.1	26.7
28S	1,371	1,817	89.3	74.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
 Modified: 9/6/2019 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 12iF2

RNA Area:	175.6	RNA Integrity Number (RIN):	9.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,260 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.8	Result Flagging Label:	RIN: 9.50

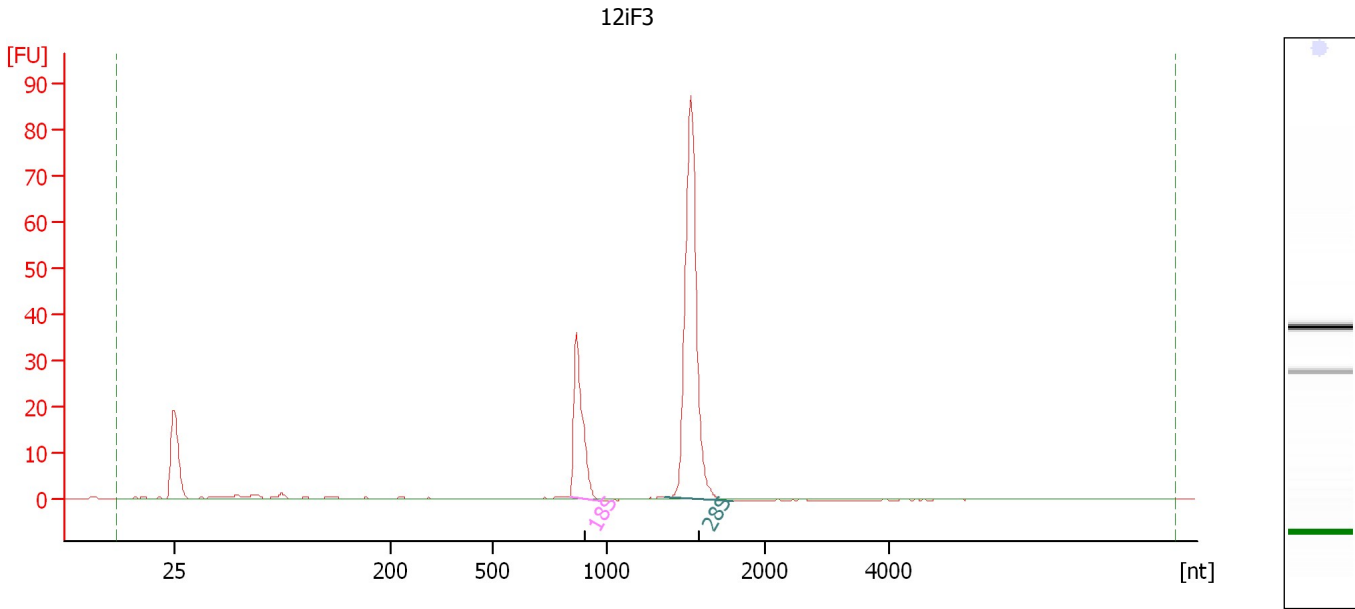
Fragment table for sample 11 : 12iF2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	840	972	42.5	24.2
28S	1,357	1,809	118.8	67.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
Modified: 9/6/2019 11:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 12iF3

RNA Area:	161.0	RNA Integrity Number (RIN):	9.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,155 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.8	Result Flagging Label:	RIN: 9.50

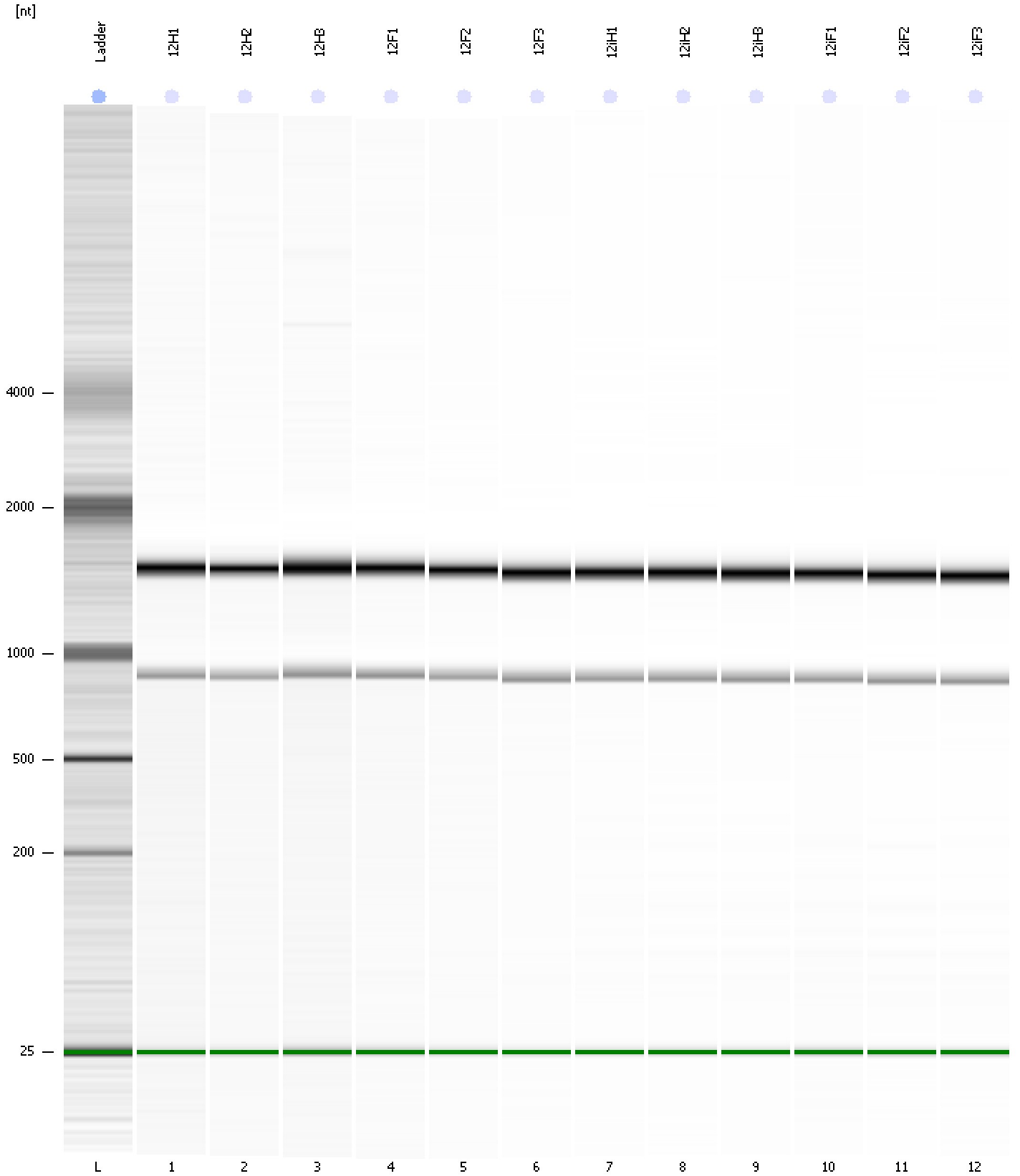
Fragment table for sample 12 : 12iF3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	841	972	40.4	25.1
28S	1,364	1,801	113.9	70.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
Modified: 9/6/2019 11:53:24 AM

Gel Image

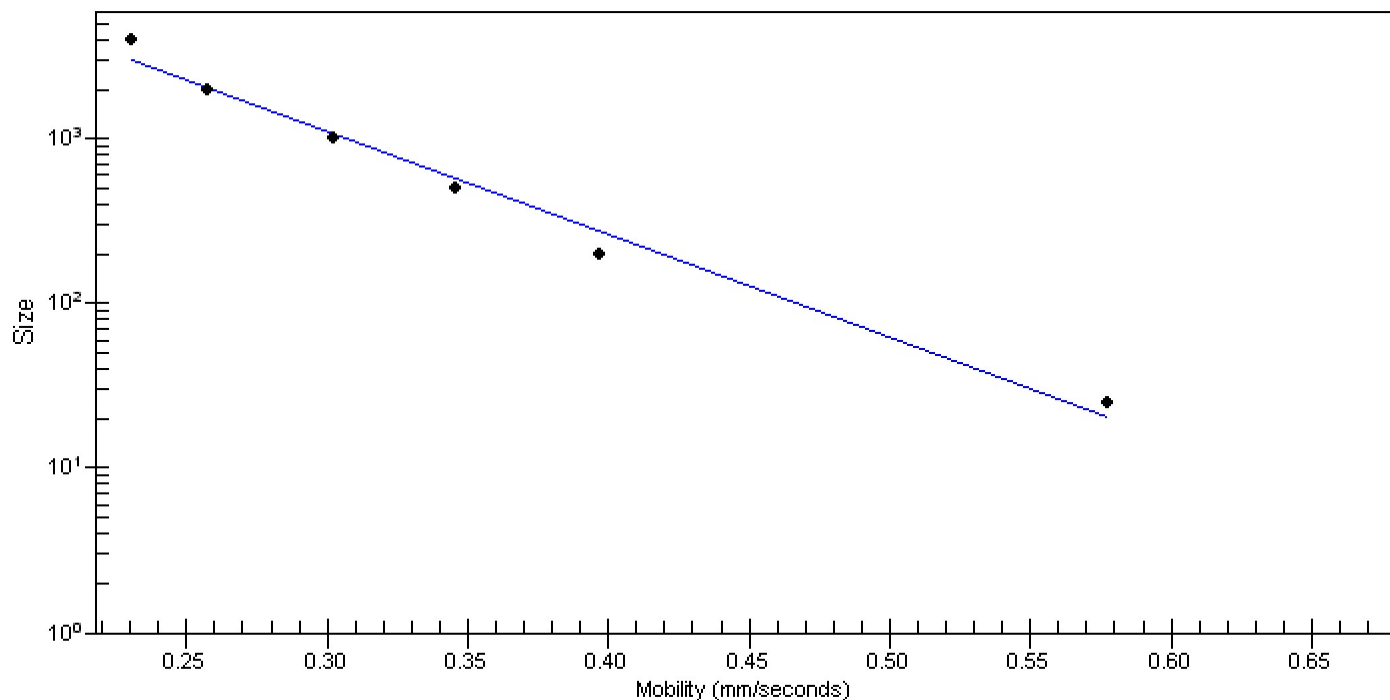


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
Modified: 9/6/2019 11:53:24 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_001.xad

Created: 9/6/2019 11:29:36 AM
 Modified: 9/6/2019 11:53:24 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		9/6/2019 11:53:23 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\2019-09-06\2019-09-06_001.xad)		Instrument	Run		9/6/2019 11:29:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/6/2019 11:29:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/6/2019 11:29:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/6/2019 11:29:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/6/2019 11:29:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/6/2019 11:29:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/6/2019 11:29:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1