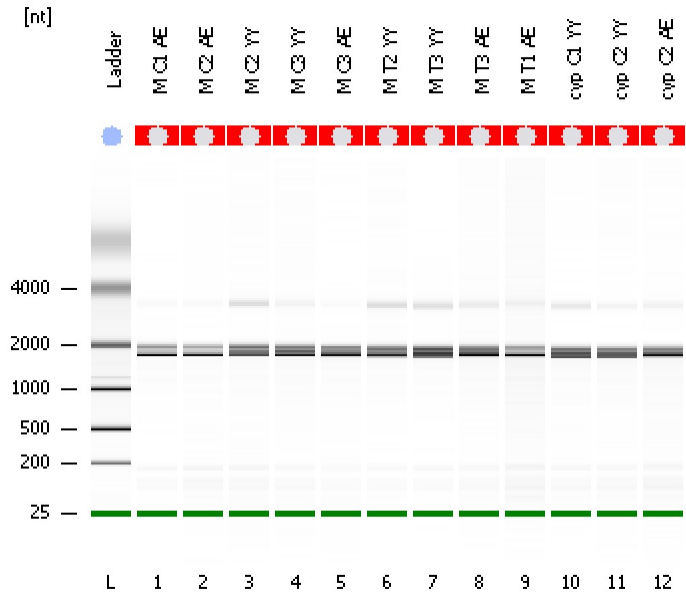


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
Modified: 7/12/2016 5:10:56 PM

Electrophoresis File Run Summary



Instrument Information:

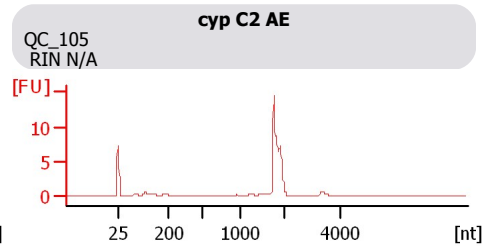
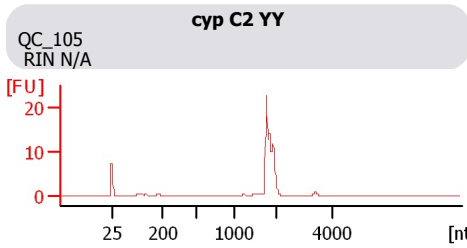
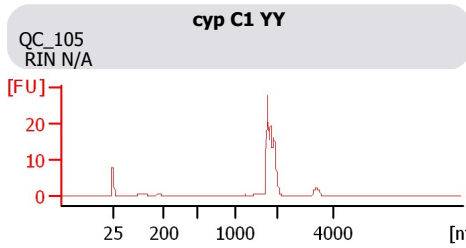
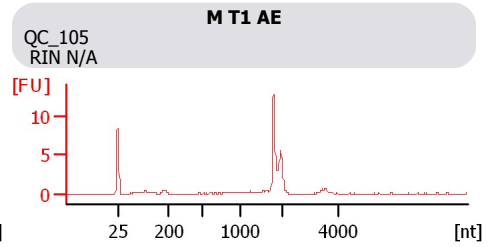
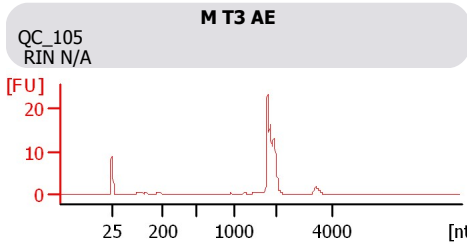
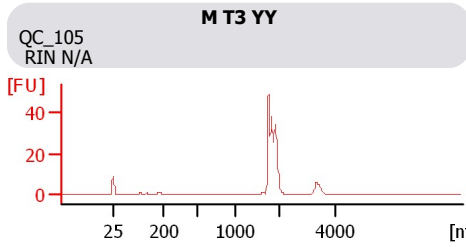
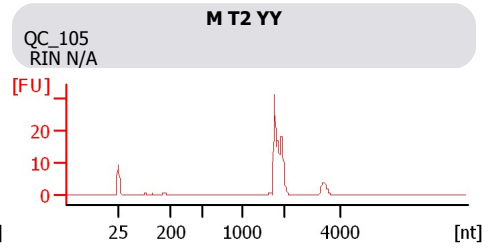
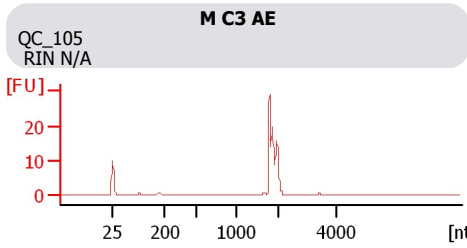
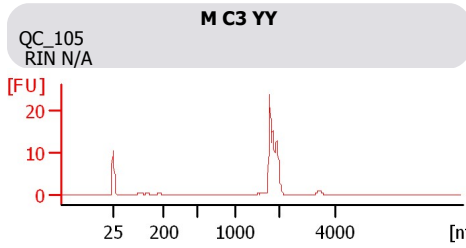
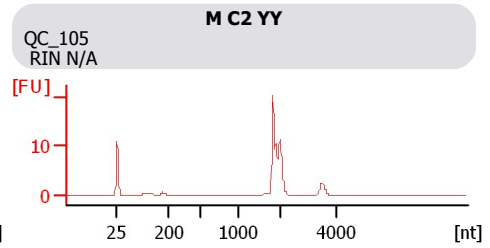
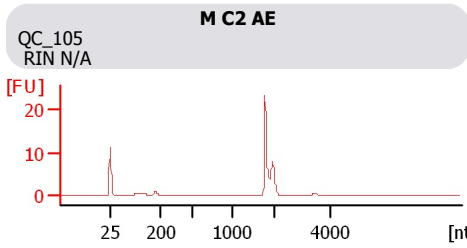
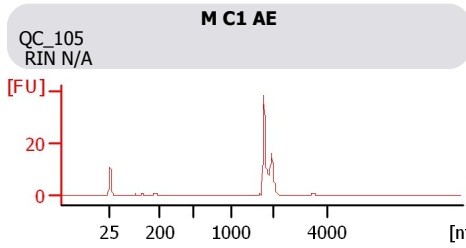
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
 Modified: 7/12/2016 5:10:56 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
M C1 AE	QC_105	✓	RIN N/A	
M C2 AE	QC_105	✓	RIN N/A	
M C2 YY	QC_105	✓	RIN N/A	
M C3 YY	QC_105	✓	RIN N/A	
M C3 AE	QC_105	✓	RIN N/A	
M T2 YY	QC_105	✓	RIN N/A	
M T3 YY	QC_105	✓	RIN N/A	
M T3 AE	QC_105	✓	RIN N/A	
M T1 AE	QC_105	✓	RIN N/A	
cyp C1 YY	QC_105	✓	RIN N/A	
cyp C2 YY	QC_105	✓	RIN N/A	
cyp C2 AE	QC_105	✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
Modified: 7/12/2016 5:10:56 PM

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

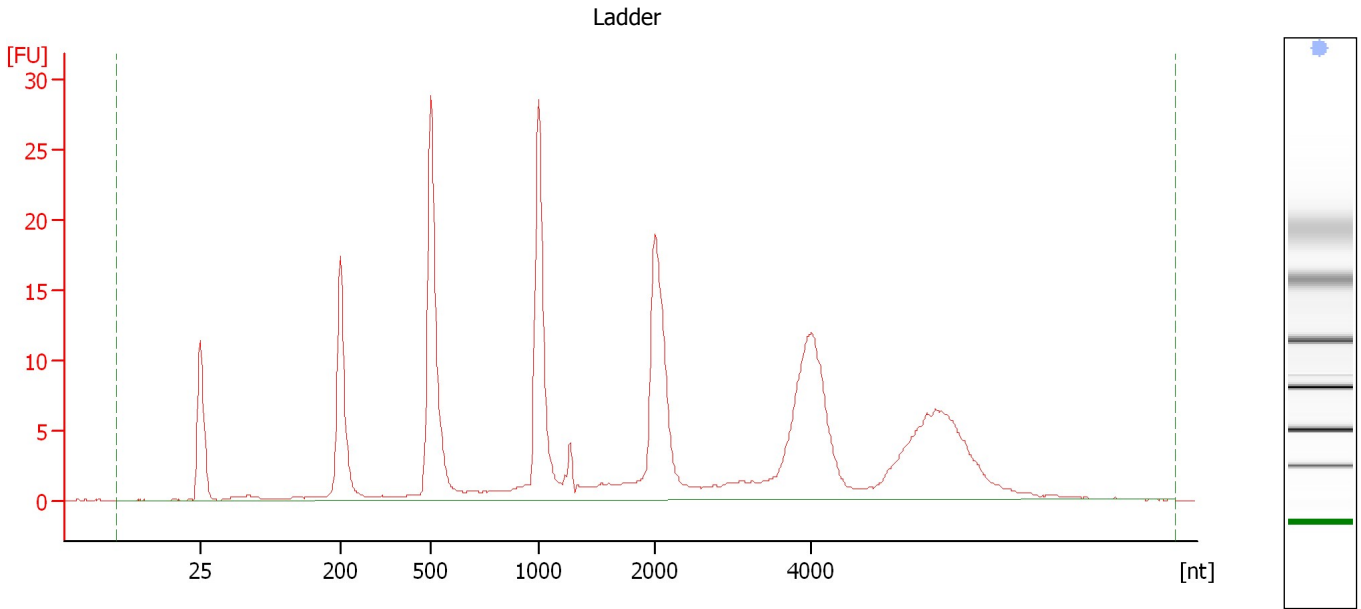
Ladder

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\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
Modified: 7/12/2016 5:10:56 PM

Electropherogram Summary



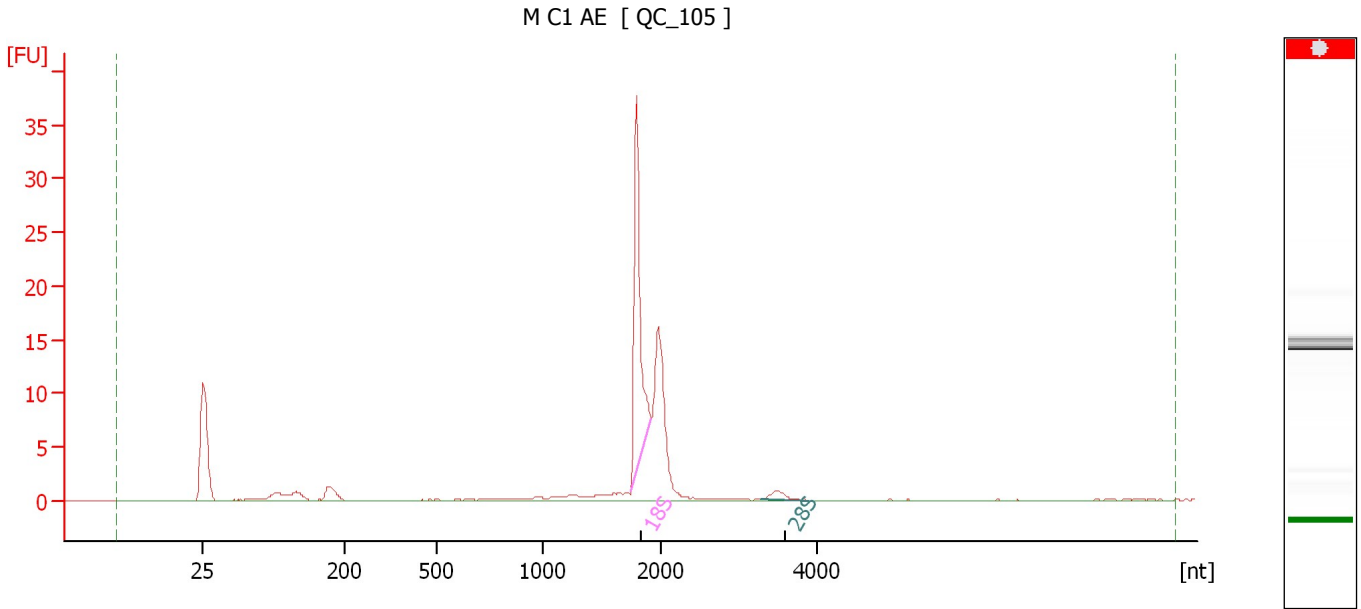
Overall Results for Ladder

RNA Area:	252.7	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\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
Modified: 7/12/2016 5:10:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : M C1 AE

RNA Area: 73.7 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 44 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN N/A

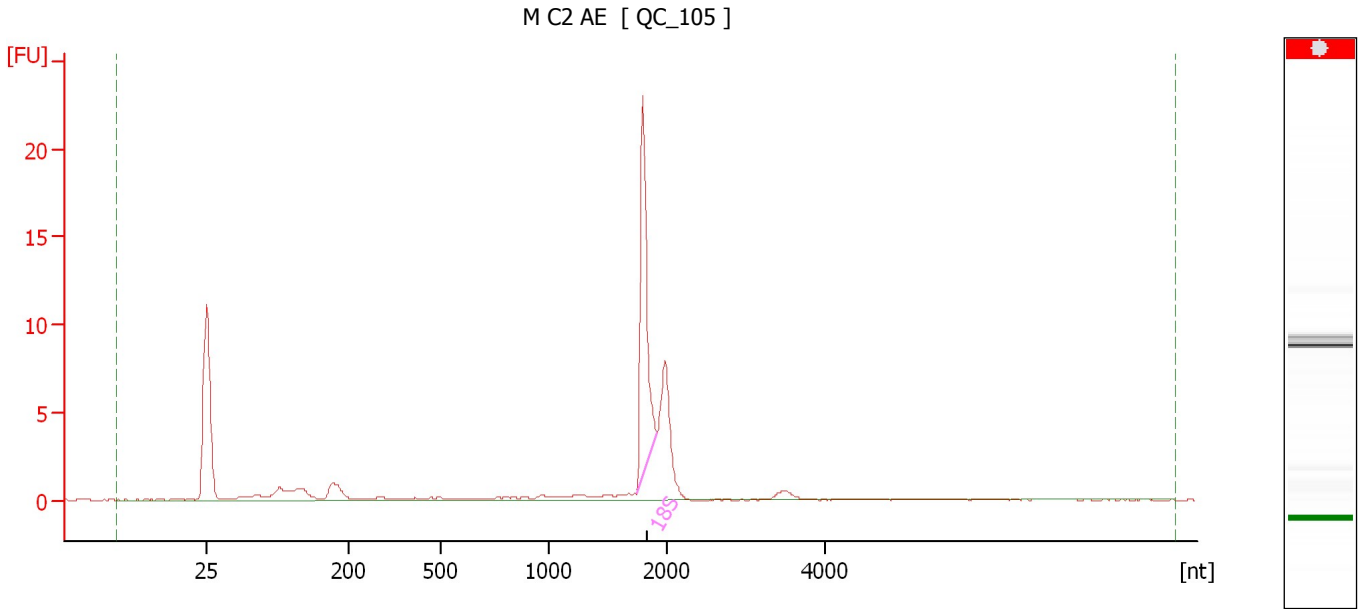
Fragment table for sample 1 : M C1 AE

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,740	1,912	26.1	35.4
28S	3,278	3,881	1.4	1.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
Modified: 7/12/2016 5:10:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : M C2 AE

RNA Area:	43.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	26 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

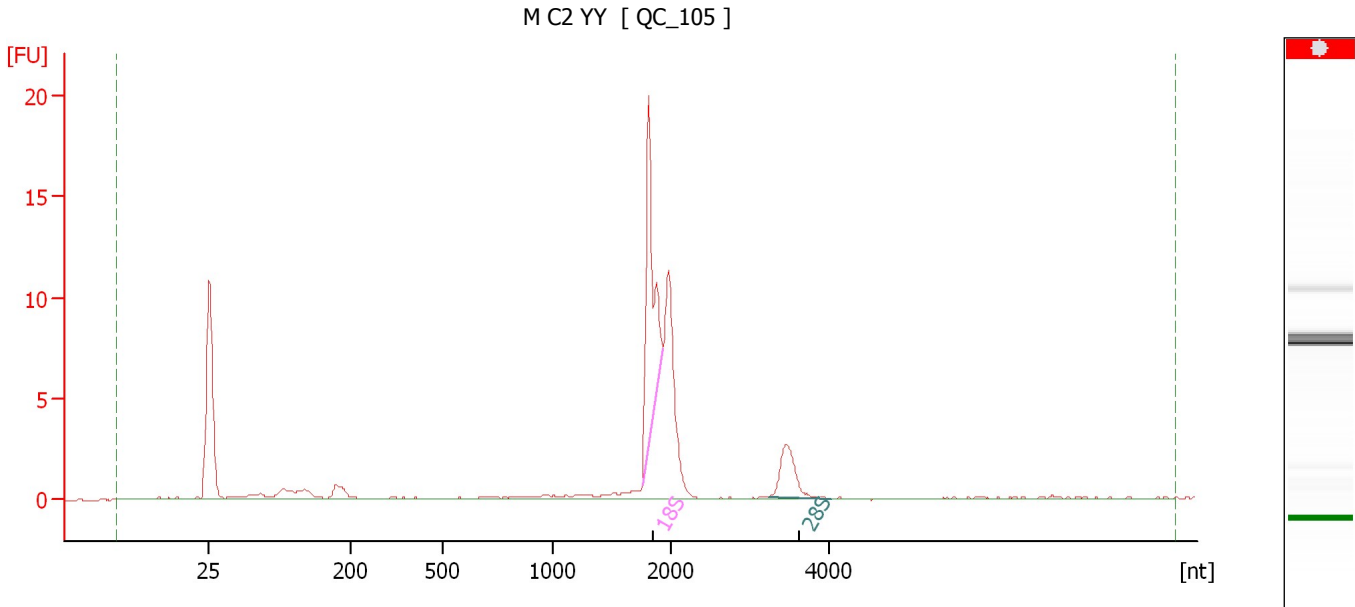
Fragment table for sample 2 : M C2 AE

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,744	1,915	16.0	36.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
Modified: 7/12/2016 5:10:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : M C2 YY

RNA Area: 50.3 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 30 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN N/A

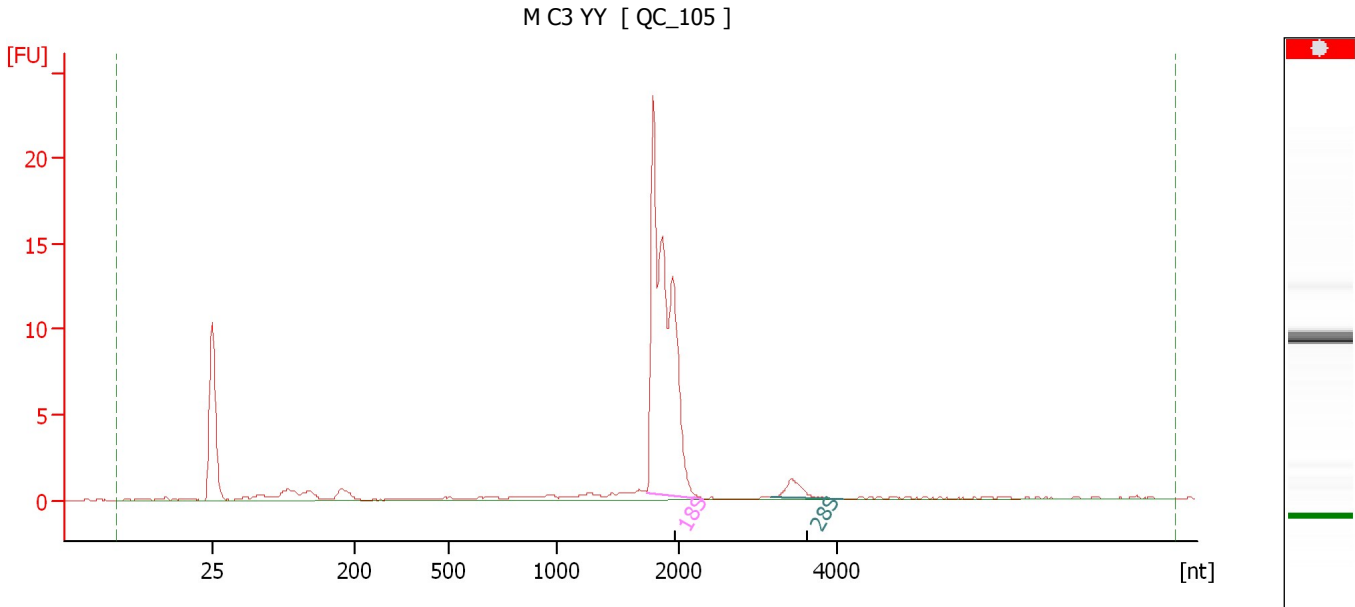
Fragment table for sample 3 : M C2 YY

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,756	1,925	14.5	28.9
28S	3,243	4,030	4.1	8.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
 Modified: 7/12/2016 5:10:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : M C3 YY

RNA Area:	60.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	36 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

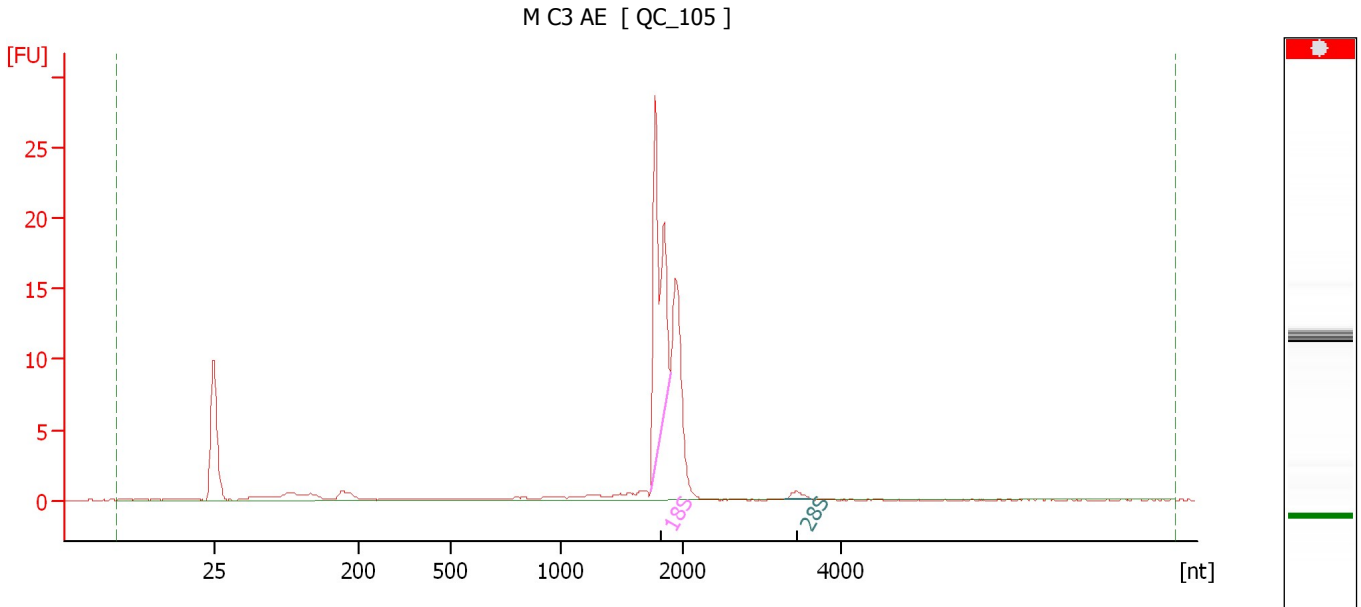
Fragment table for sample 4 : M C3 YY

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,742	2,323	44.4	72.9
28S	3,172	4,088	1.9	3.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
Modified: 7/12/2016 5:10:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : M C3 AE

RNA Area:	64.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	38 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

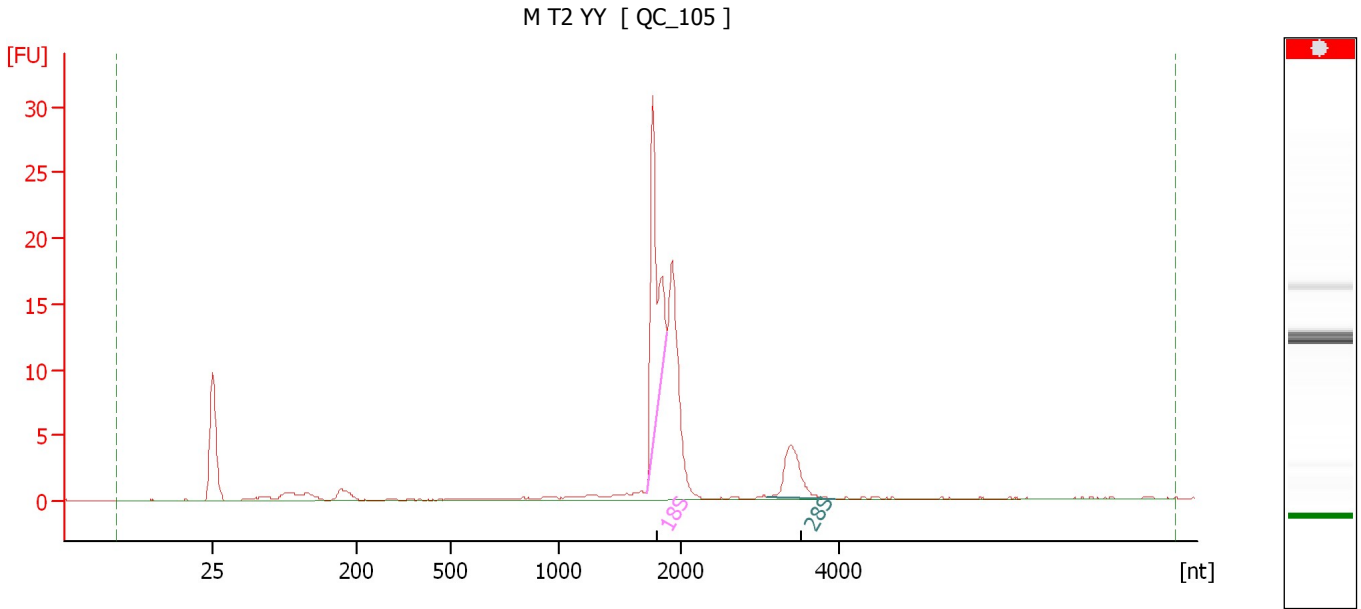
Fragment table for sample 5 : M C3 AE

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,736	1,904	24.6	38.0
28S	3,304	3,612	0.6	0.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
 Modified: 7/12/2016 5:10:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : M T2 YY

RNA Area:	74.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	44 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN N/A

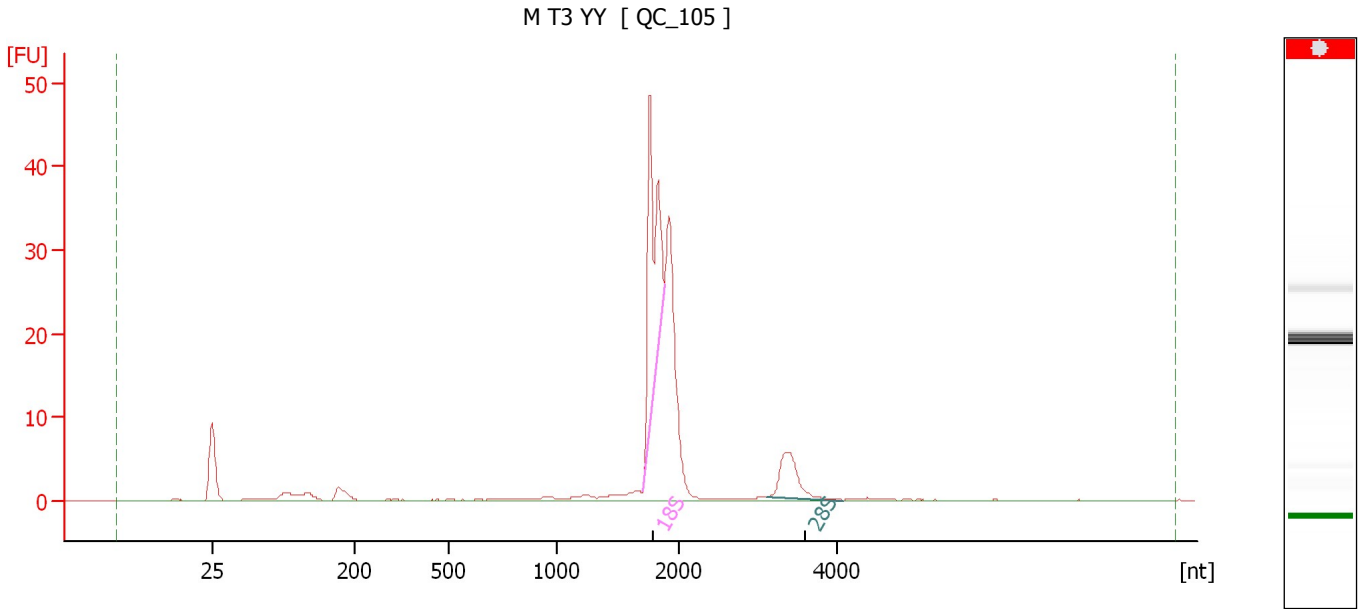
Fragment table for sample 6 : M T2 YY

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,725	1,894	22.1	29.5
28S	3,103	3,951	6.6	8.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
Modified: 7/12/2016 5:10:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : M T3 YY

RNA Area: 142.1 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 84 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN N/A

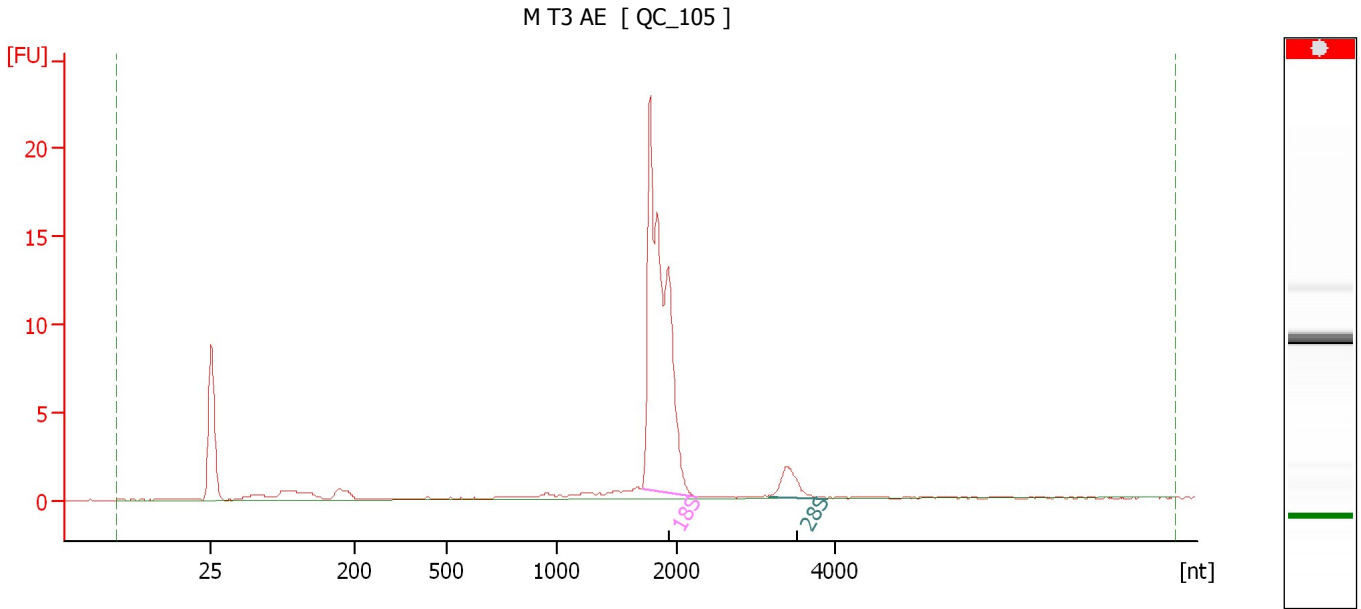
Fragment table for sample 7 : M T3 YY

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,715	1,884	38.3	26.9
28S	3,131	4,088	10.5	7.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
Modified: 7/12/2016 5:10:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : M T3 AE

RNA Area:	62.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	37 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN N/A

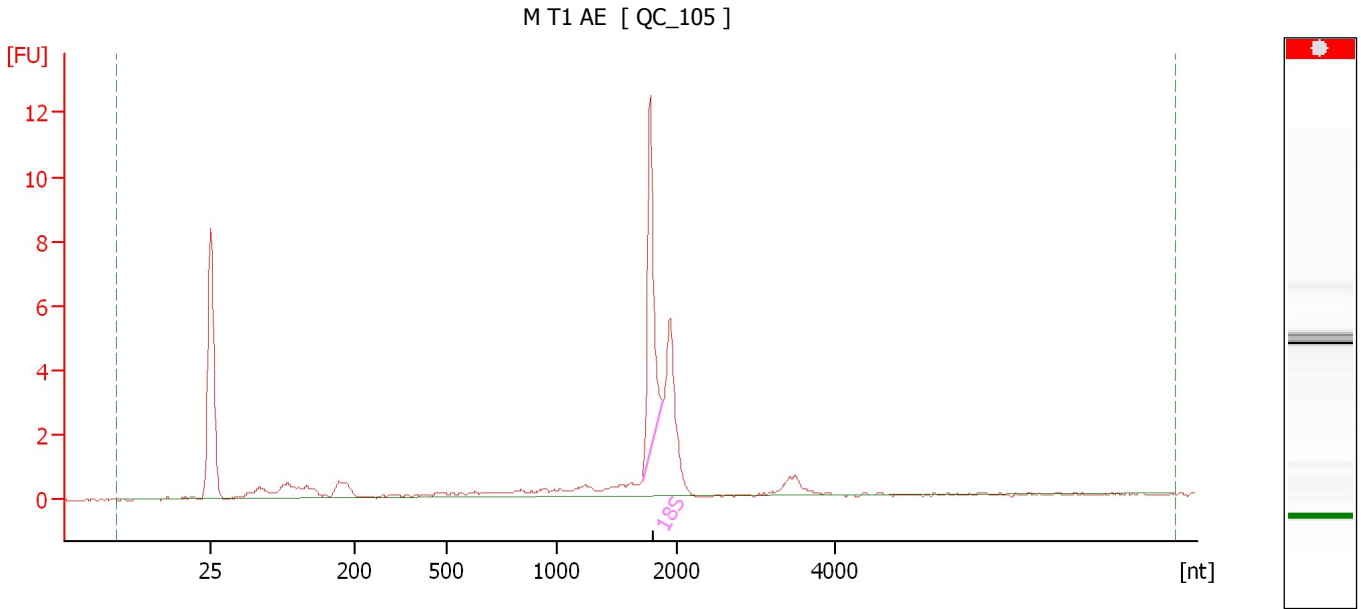
Fragment table for sample 8 : M T3 AE

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,723	2,255	44.3	70.4
28S	3,187	3,916	2.9	4.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
Modified: 7/12/2016 5:10:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : M T1 AE

RNA Area:	32.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	19 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

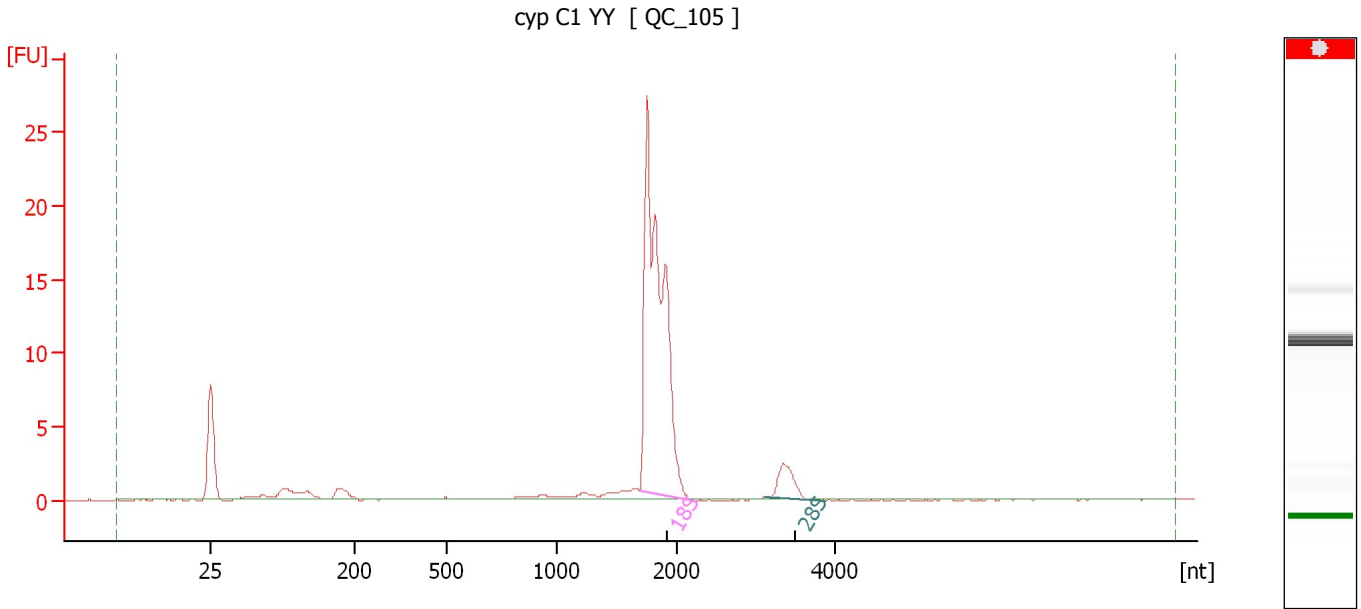
Fragment table for sample 9 : M T1 AE

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,723	1,892	8.2	25.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
Modified: 7/12/2016 5:10:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : cyp C1 YY

RNA Area: 70.3 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 42 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN N/A

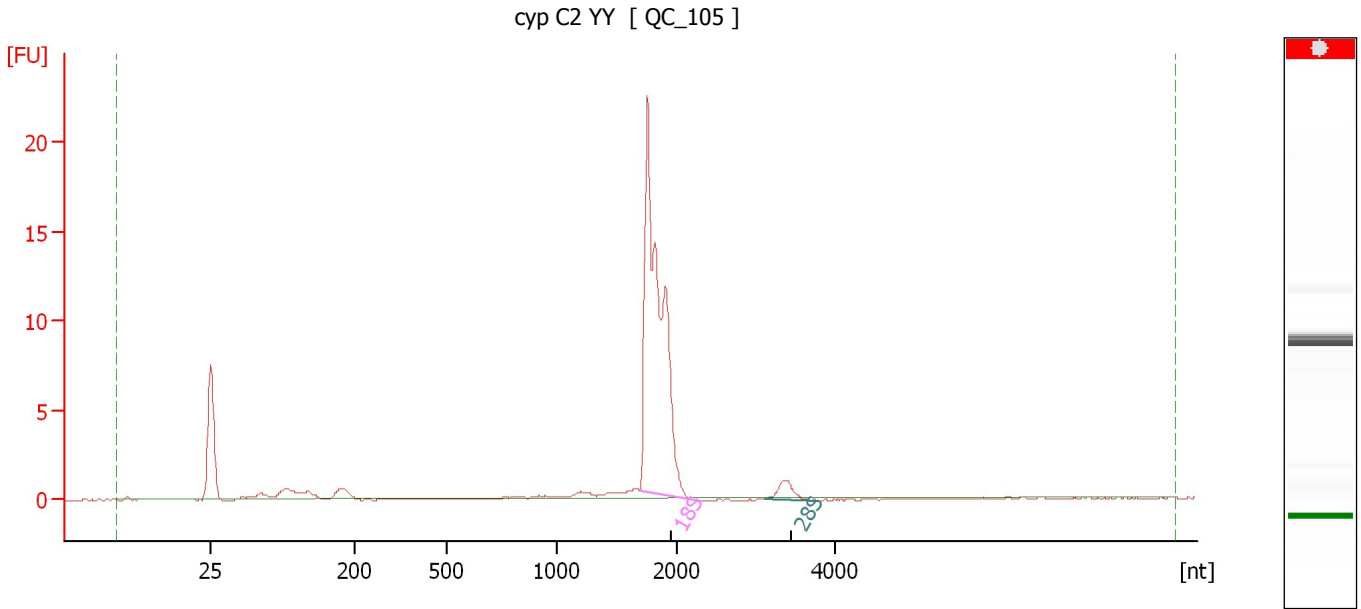
Fragment table for sample 10 : cyp C1 YY

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	2,228	52.9	75.2
28S	3,132	3,889	4.0	5.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
Modified: 7/12/2016 5:10:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : cyp C2 YY

RNA Area: 52.2 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 31 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN N/A

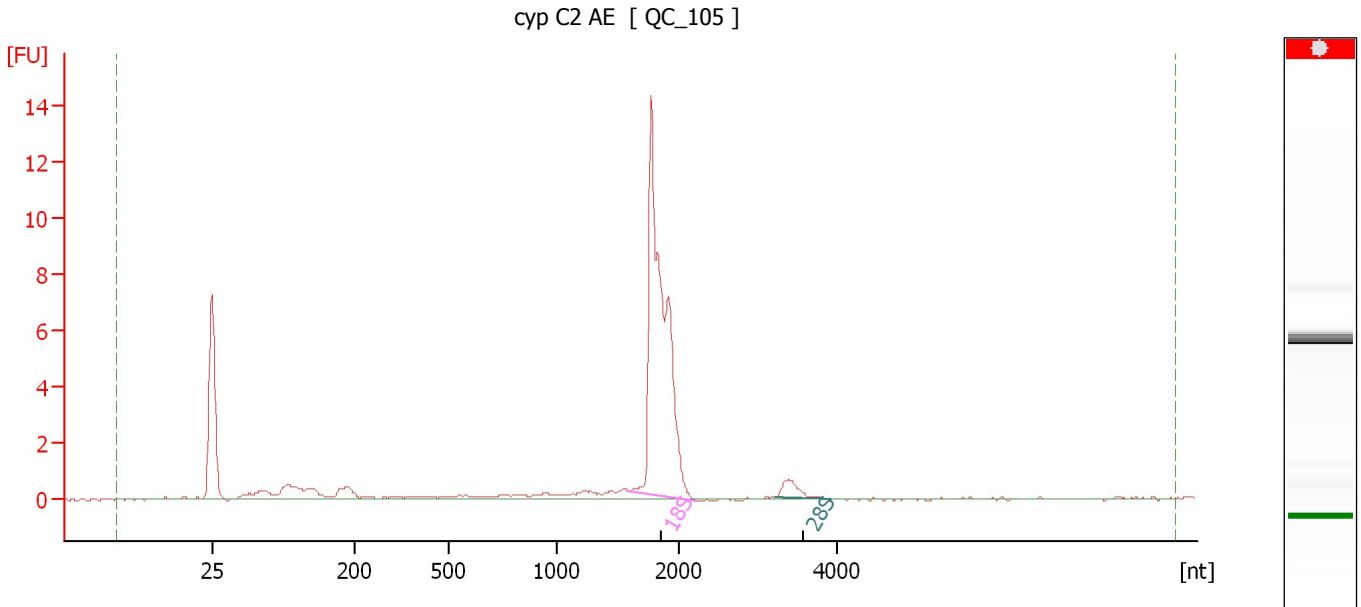
Fragment table for sample 11 : cyp C2 YY

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	2,309	40.3	77.3
28S	3,132	3,808	1.8	3.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
Modified: 7/12/2016 5:10:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : cyp C2 AE

RNA Area: 38.4 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 23 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN N/A

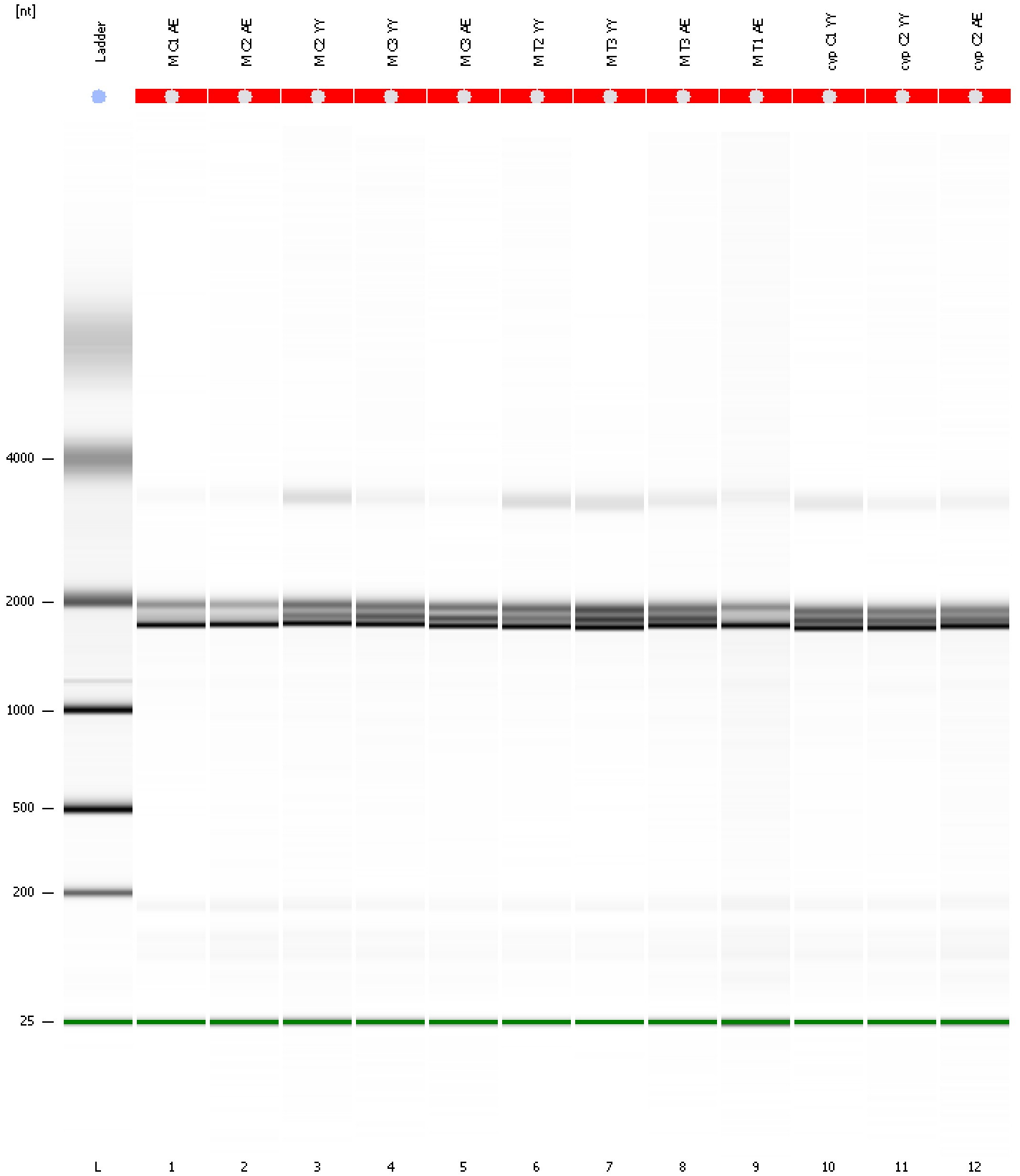
Fragment table for sample 12 : cyp C2 AE

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,582	2,242	25.4	66.1
28S	3,226	3,940	1.1	2.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
Modified: 7/12/2016 5:10:56 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad

Created: 7/12/2016 4:47:05 PM
 Modified: 7/12/2016 5:10:56 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
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Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_004.xad)		Instrument	Run		7/12/2016 4:47:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/12/2016 4:47:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/12/2016 4:47:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/12/2016 4:47:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/12/2016 4:47:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/12/2016 4:47:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/12/2016 4:47:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1