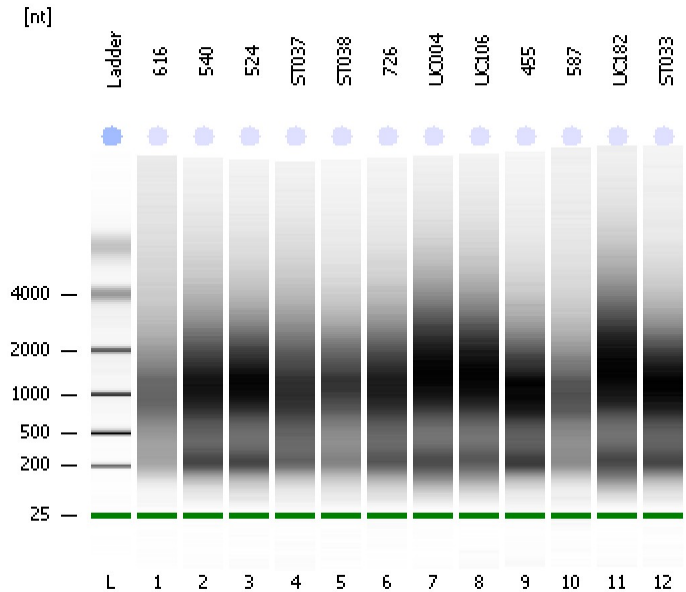


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
Modified: 6/6/2016 9:34:11 AM

Electrophoresis File Run Summary



Instrument Information:

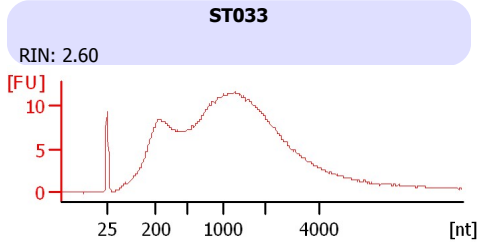
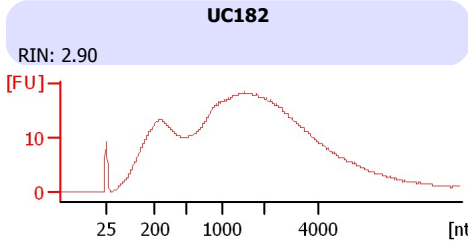
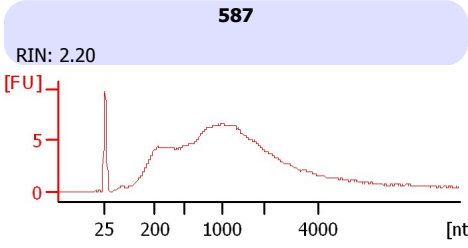
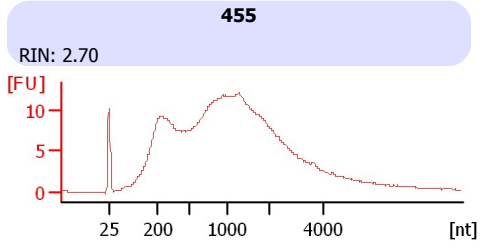
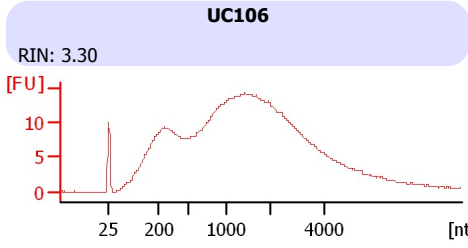
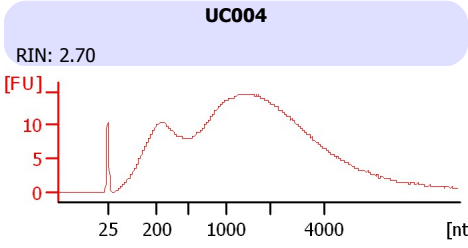
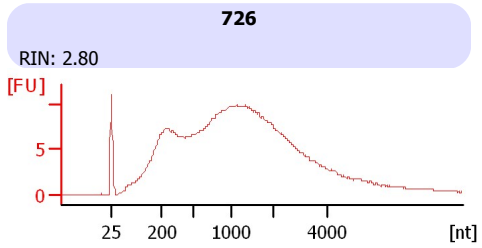
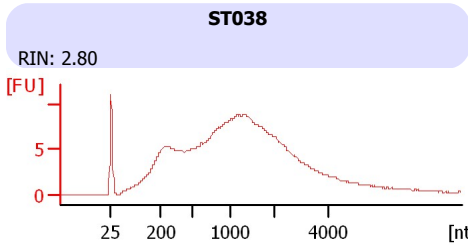
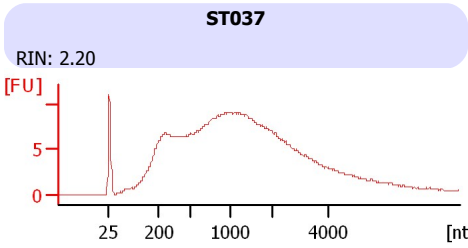
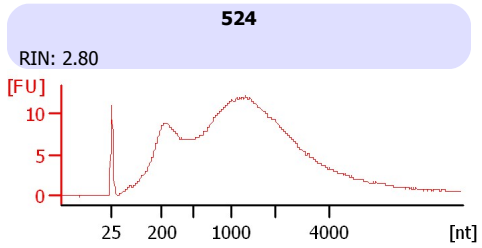
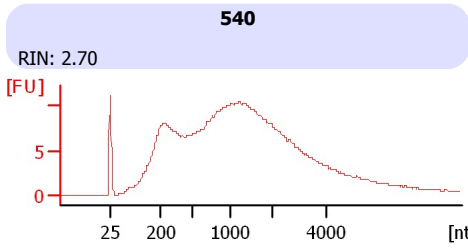
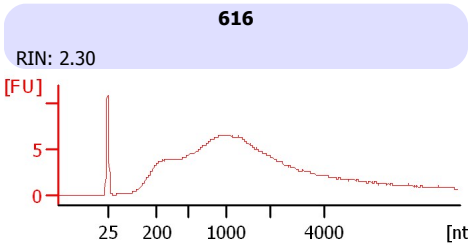
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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)
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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\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
Modified: 6/6/2016 9:34:11 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
616		✓	RIN: 2.30	
540		✓	RIN: 2.70	
524		✓	RIN: 2.80	
ST037		✓	RIN: 2.20	
ST038		✓	RIN: 2.80	
726		✓	RIN: 2.80	
UC004		✓	RIN: 2.70	
UC106		✓	RIN: 3.30	
455		✓	RIN: 2.70	
587		✓	RIN: 2.20	
UC182		✓	RIN: 2.90	
ST033		✓	RIN: 2.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
Modified: 6/6/2016 9:34:11 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

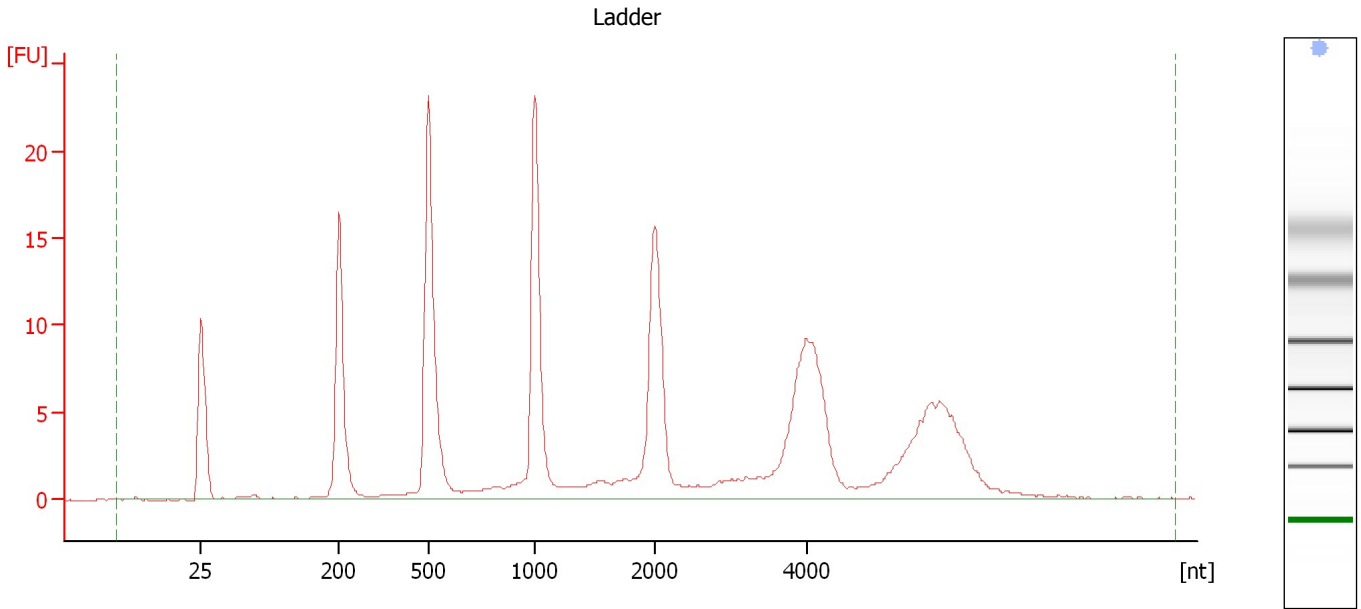
Ladder

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\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
Modified: 6/6/2016 9:34:11 AM

Electropherogram Summary



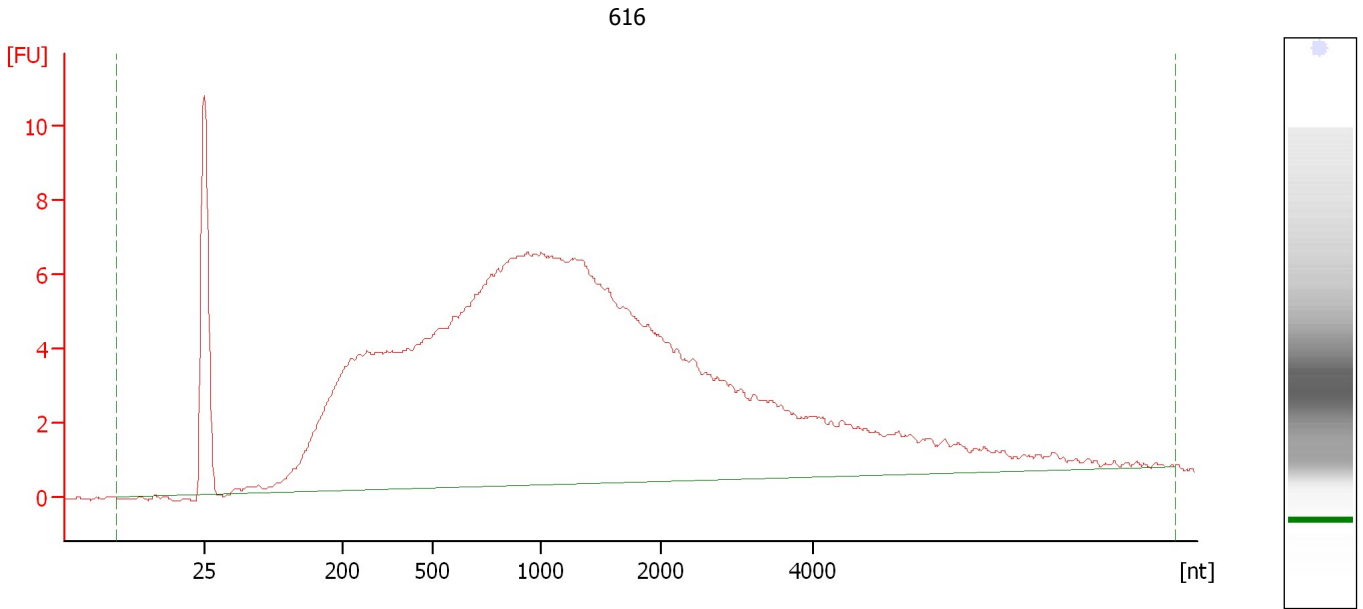
Overall Results for Ladder

RNA Area:	200.9	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\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
Modified: 6/6/2016 9:34:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 616

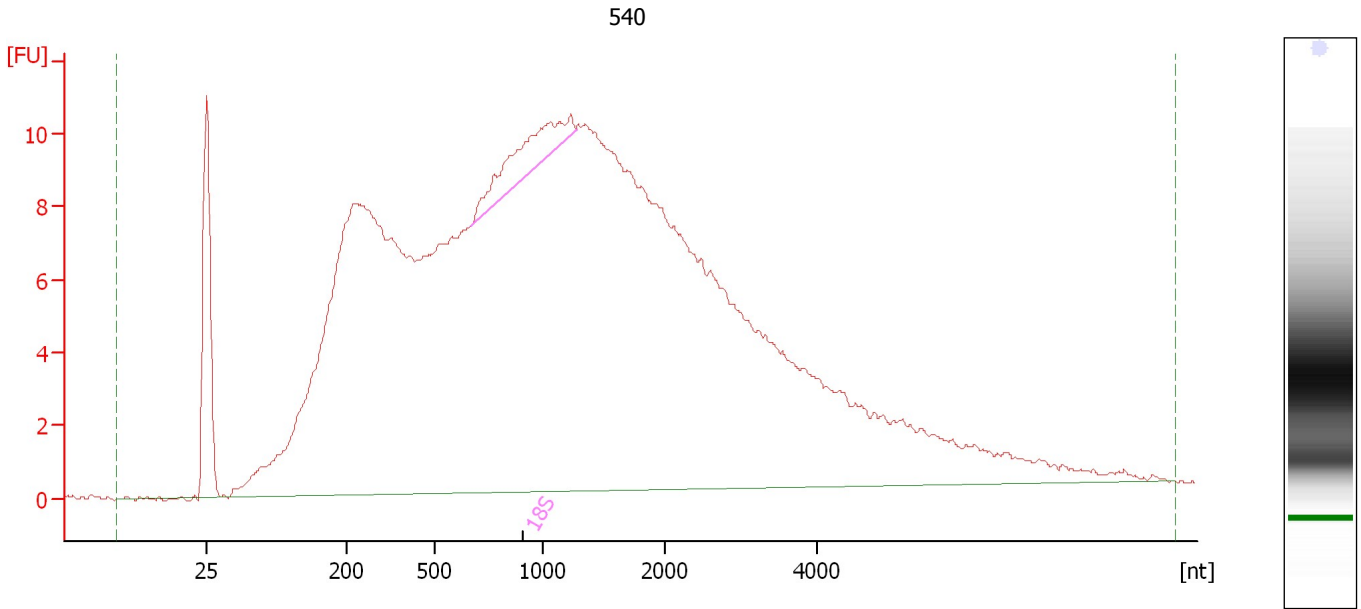
RNA Area: 264.6
RNA Concentration: 198 ng/μl
rRNA Ratio [28s / 18s]: 0.0

RNA Integrity Number (RIN): 2.3 (B.02.08, Anomaly Threshold(s) manually adapted)
Result Flagging Color:
Result Flagging Label: RIN: 2.30

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
Modified: 6/6/2016 9:34:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 540

RNA Area:	478.4	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	357 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

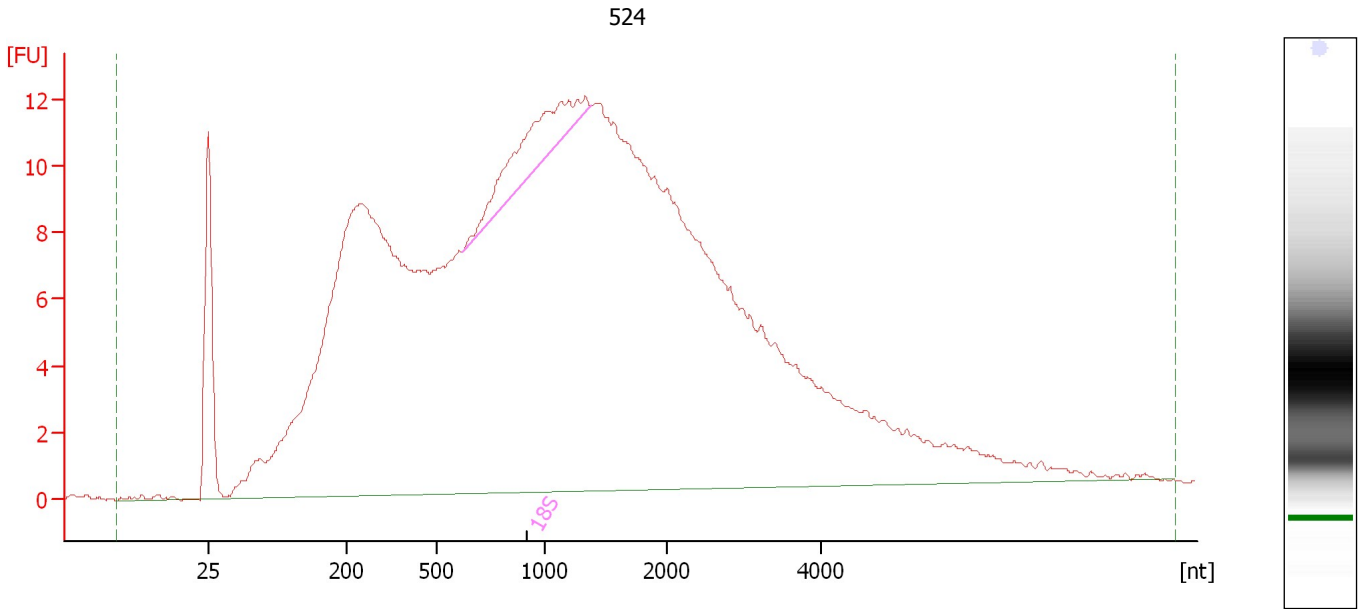
Fragment table for sample 2 : 540

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	661	1,268	8.6	1.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
 Modified: 6/6/2016 9:34:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 524

RNA Area:	528.5	RNA Integrity Number (RIN):	2.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	395 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

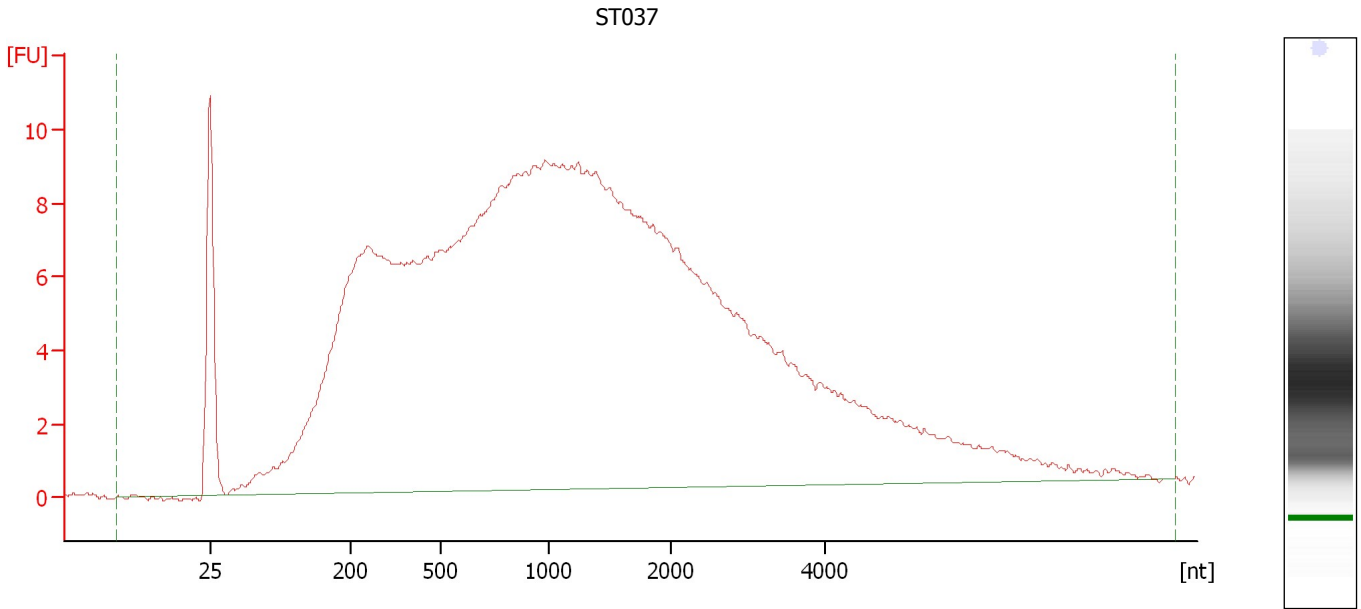
Fragment table for sample 3 : 524

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	619	1,375	13.4	2.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
Modified: 6/6/2016 9:34:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ST037

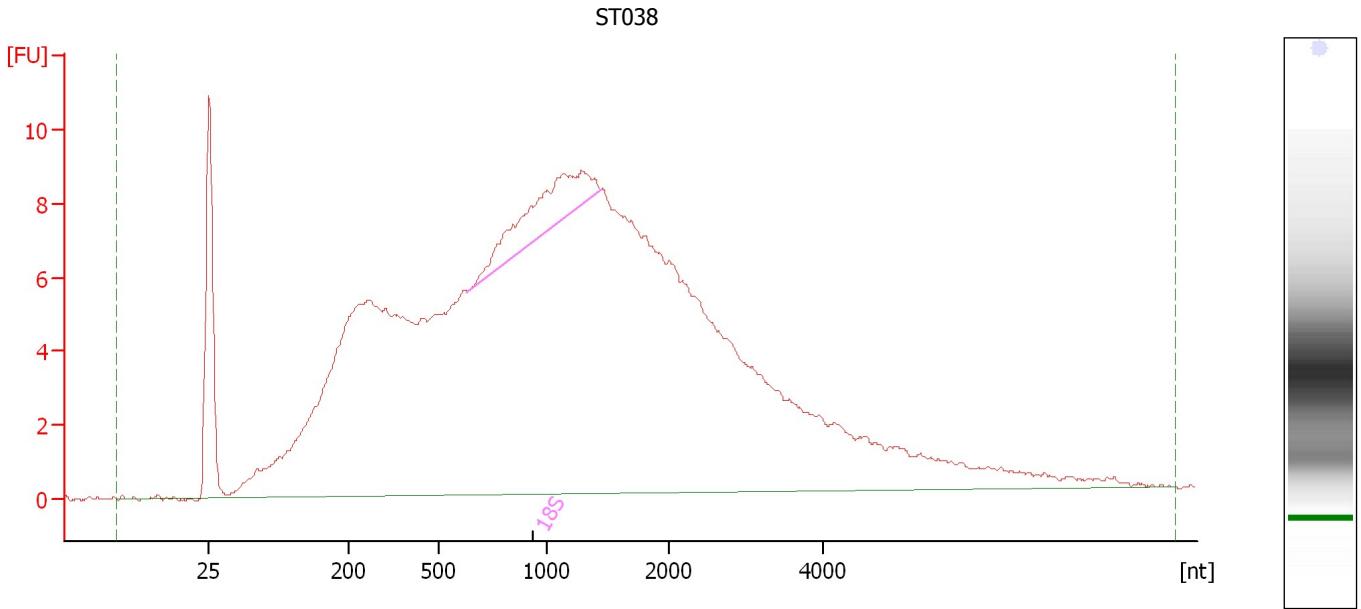
RNA Area: 423.6
RNA Concentration: 316 ng/μl
rRNA Ratio [28s / 18s]: 0.0

RNA Integrity Number (RIN): 2.2 (B.02.08, Anomaly Threshold(s) manually adapted)
Result Flagging Color:
Result Flagging Label: RIN: 2.20

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
Modified: 6/6/2016 9:34:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : ST038

RNA Area:	365.0	RNA Integrity Number (RIN):	2.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	272 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

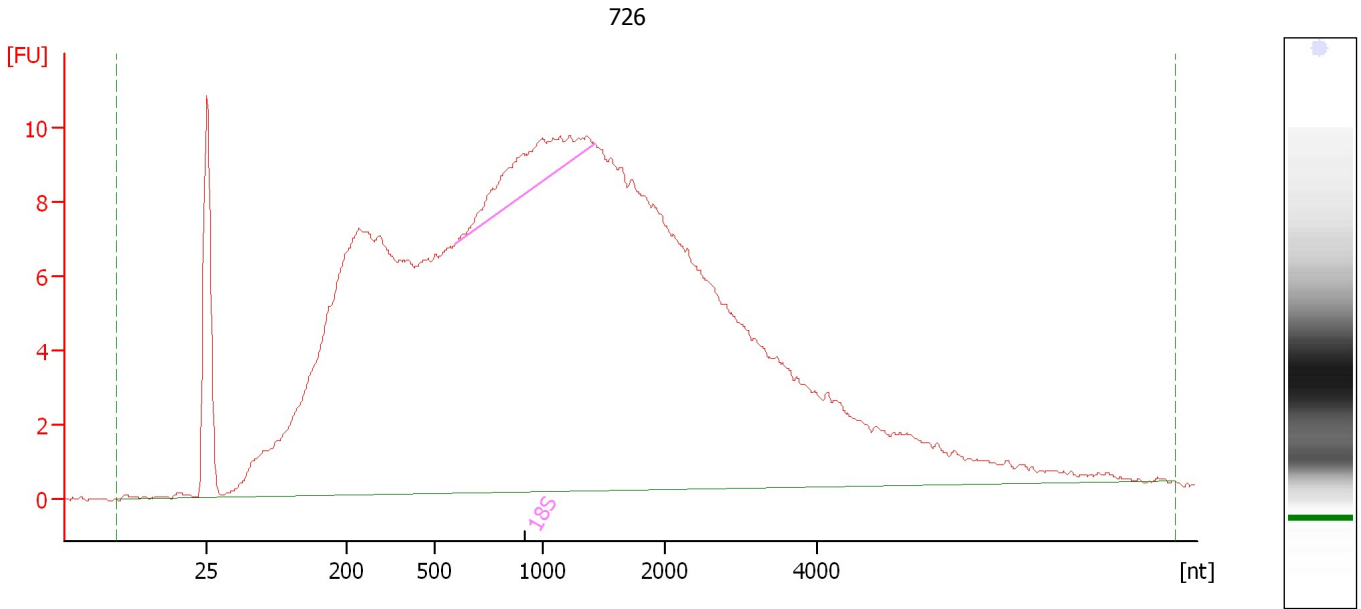
Fragment table for sample 5 : ST038

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	632	1,430	11.4	3.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
 Modified: 6/6/2016 9:34:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 726

RNA Area:	448.9	RNA Integrity Number (RIN):	2.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	335 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

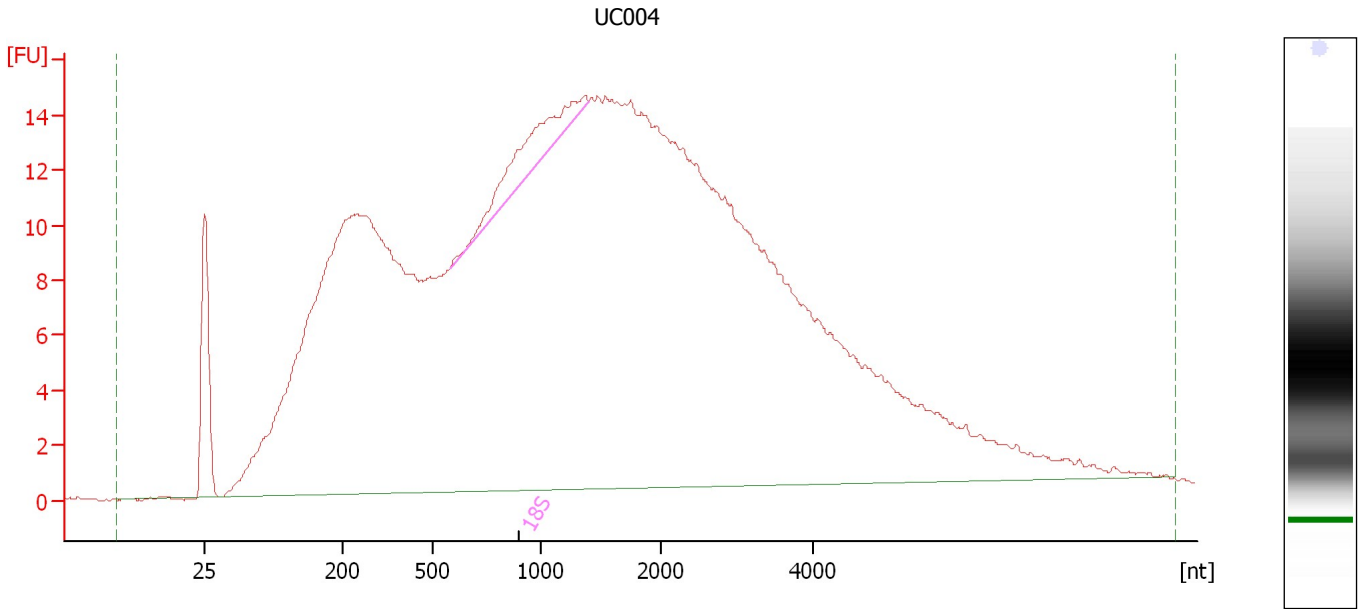
Fragment table for sample 6 : 726

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	592	1,417	11.3	2.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
Modified: 6/6/2016 9:34:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : UC004

RNA Area:	728.2	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	544 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

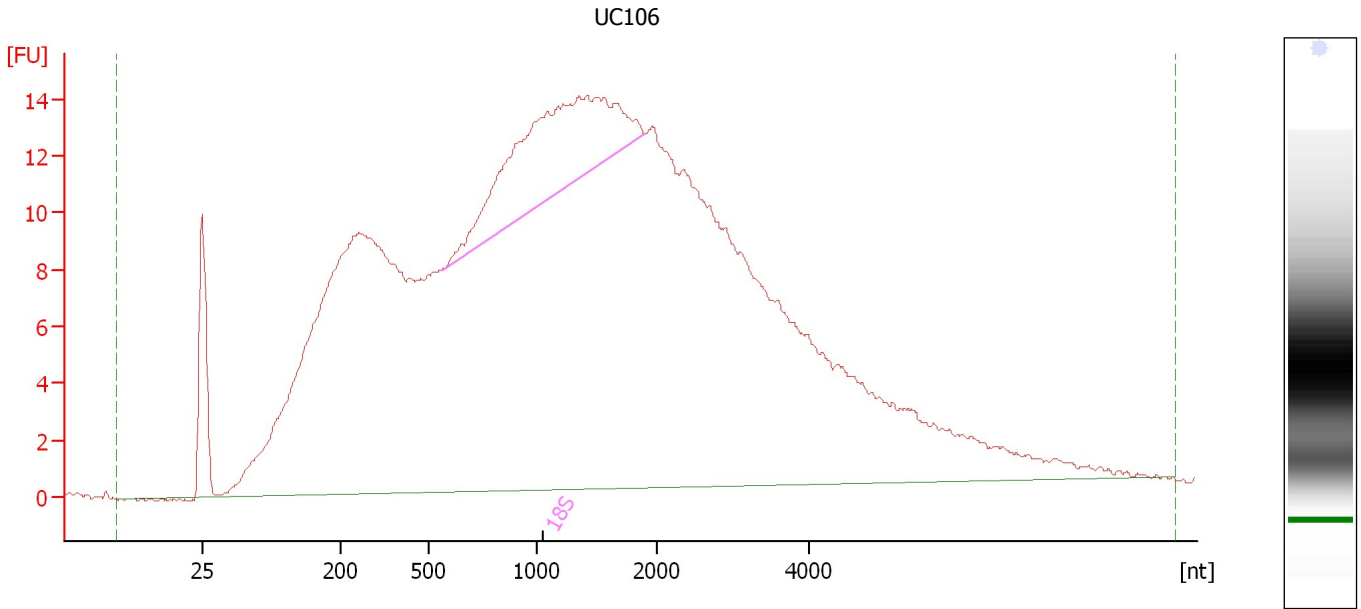
Fragment table for sample 7 : UC004

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	582	1,395	12.3	1.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
Modified: 6/6/2016 9:34:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : UC106

RNA Area:	671.8	RNA Integrity Number (RIN):	3.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	502 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.30

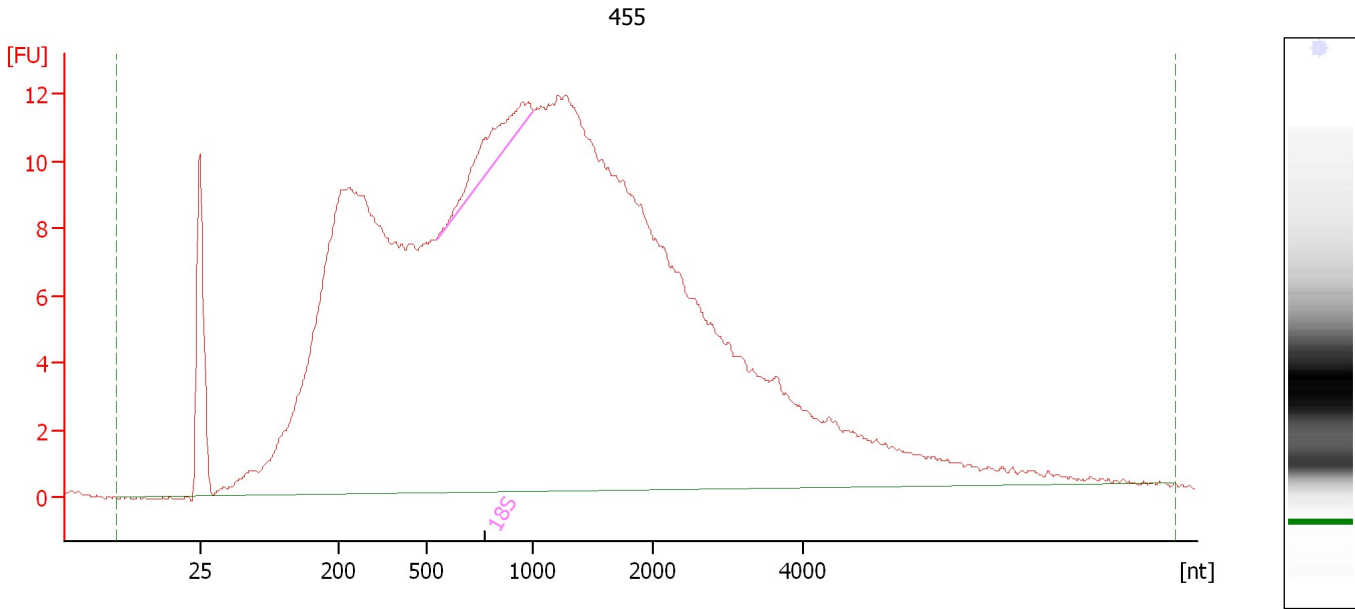
Fragment table for sample 8 : UC106

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	557	1,894	44.5	6.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
Modified: 6/6/2016 9:34:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 455

RNA Area:	515.7	RNA Integrity Number (RIN):	2.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	385 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

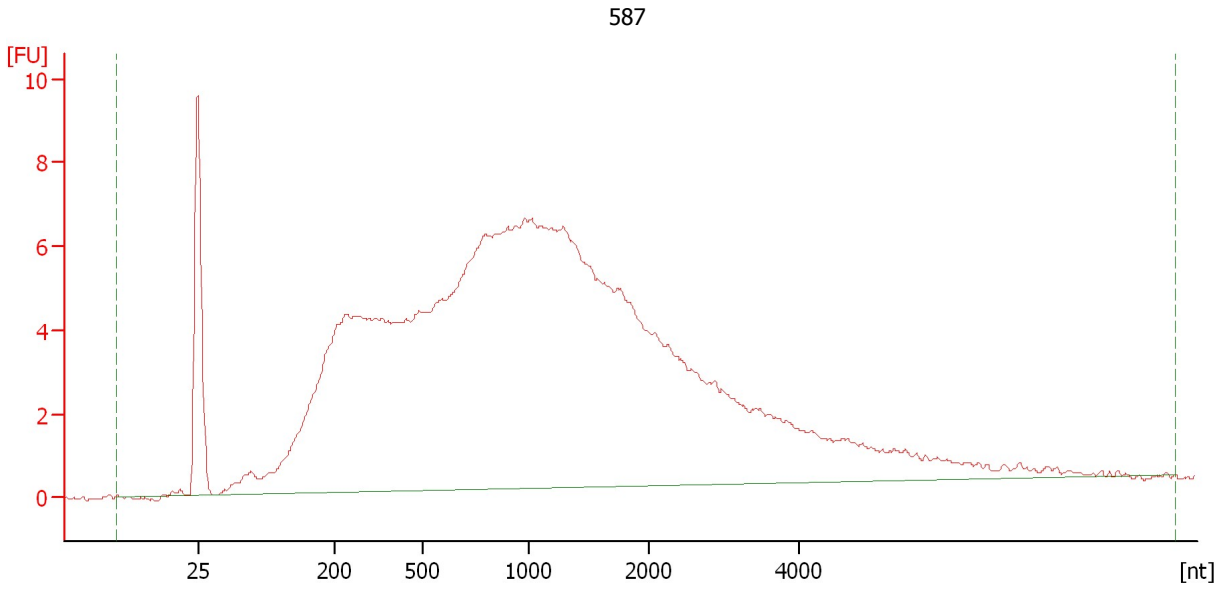
Fragment table for sample 9 : 455

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	547	1,006	7.1	1.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
Modified: 6/6/2016 9:34:11 AM

Electropherogram Summary Continued ...



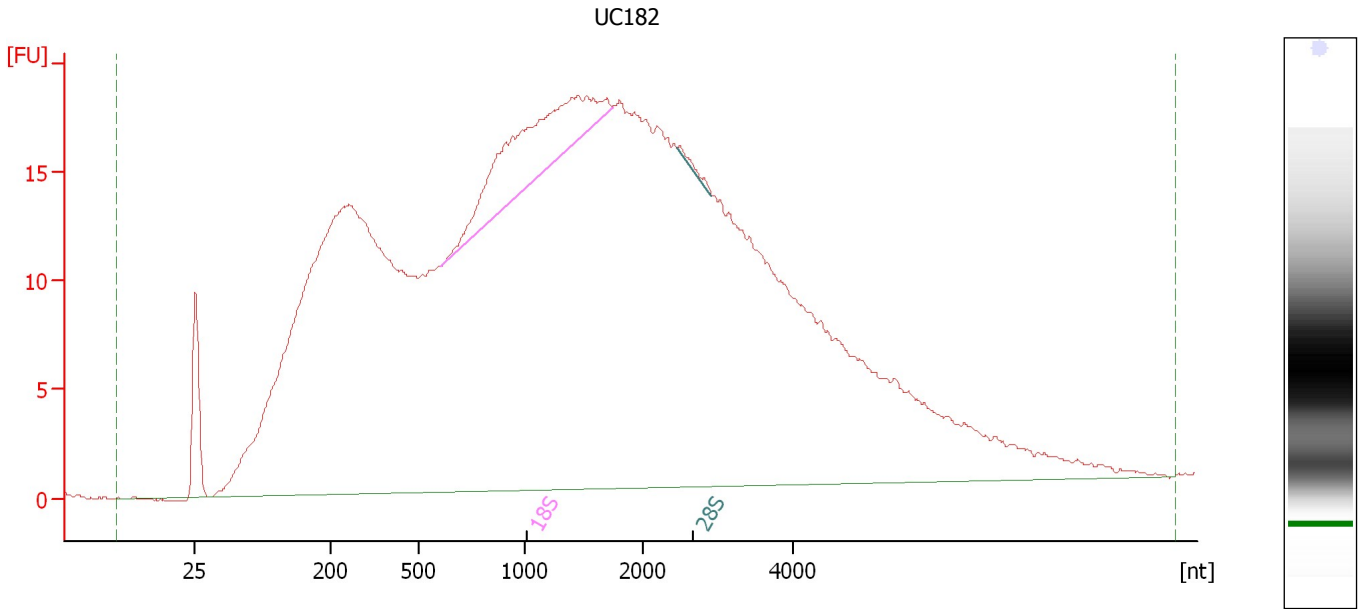
Overall Results for sample 10 : 587

RNA Area:	268.5	RNA Integrity Number (RIN):	2.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	200 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
Modified: 6/6/2016 9:34:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : UC182

RNA Area:	953.4	RNA Integrity Number (RIN):	2.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	712 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 2.90

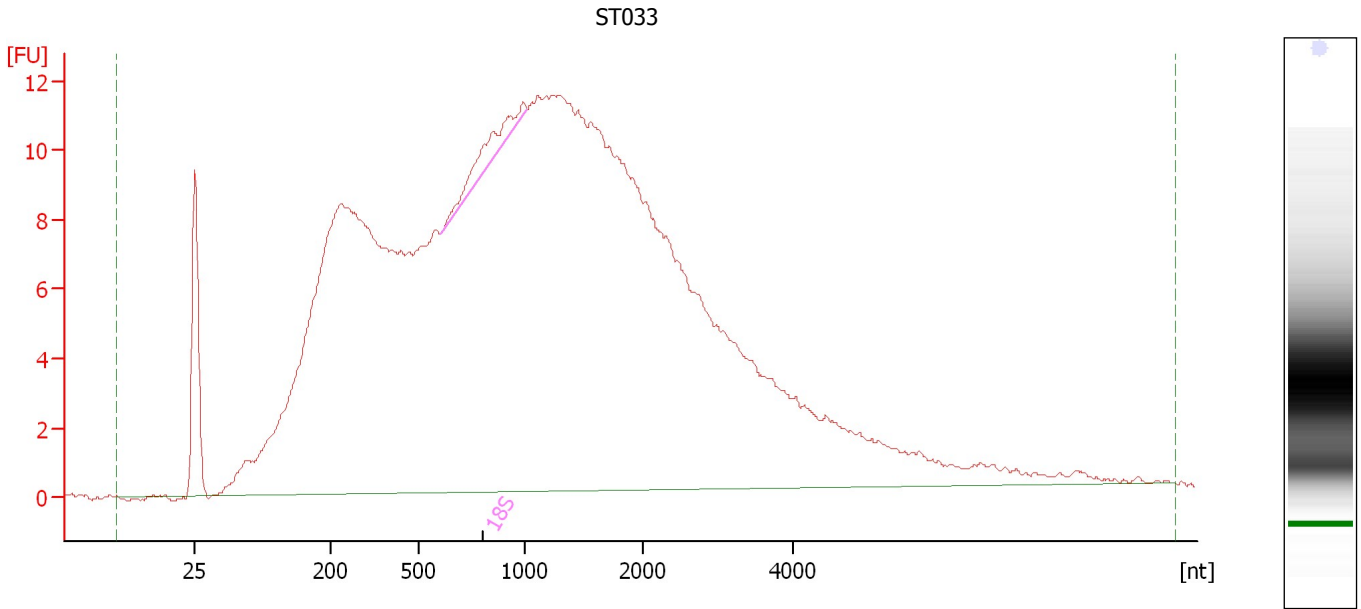
Fragment table for sample 11 : UC182

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	604	1,743	35.0	3.7
28S	2,451	2,911	0.8	0.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
 Modified: 6/6/2016 9:34:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : ST033

RNA Area:	509.9	RNA Integrity Number (RIN):	2.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	381 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

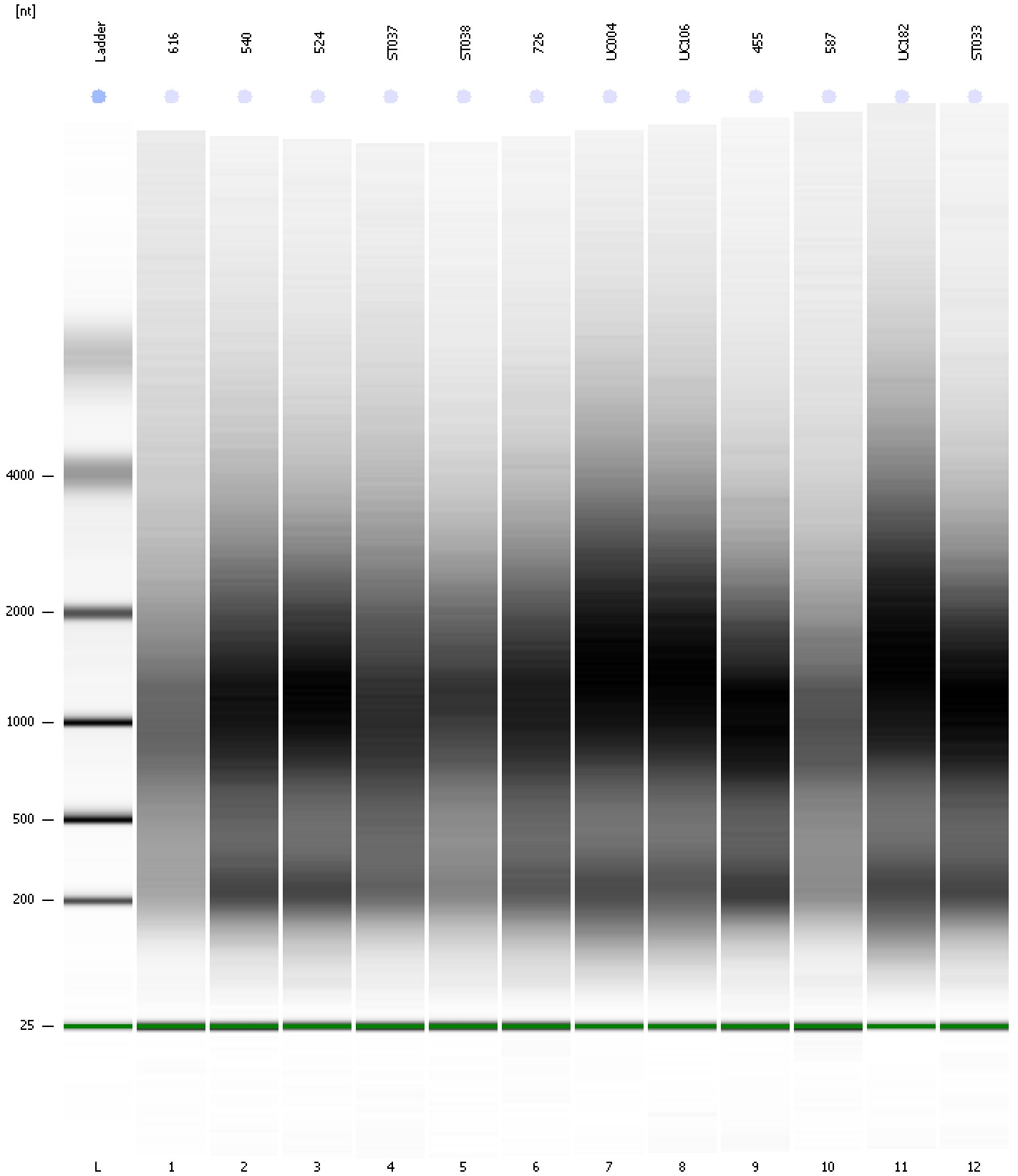
Fragment table for sample 12 : ST033

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	604	1,026	4.6	0.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad

Created: 6/6/2016 8:54:01 AM
Modified: 6/6/2016 9:34:11 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 6/6/2016 8:54:01 AM
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_001.xad Modified: 6/6/2016 9:34:11 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		6/6/2016 9:17:48 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\2016-06-06\2016-06-06_001.xad)		Instrument	Run		6/6/2016 8:54:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/6/2016 8:54:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/6/2016 8:54:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/6/2016 8:54:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/6/2016 8:54:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/6/2016 8:54:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/6/2016 8:54:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1