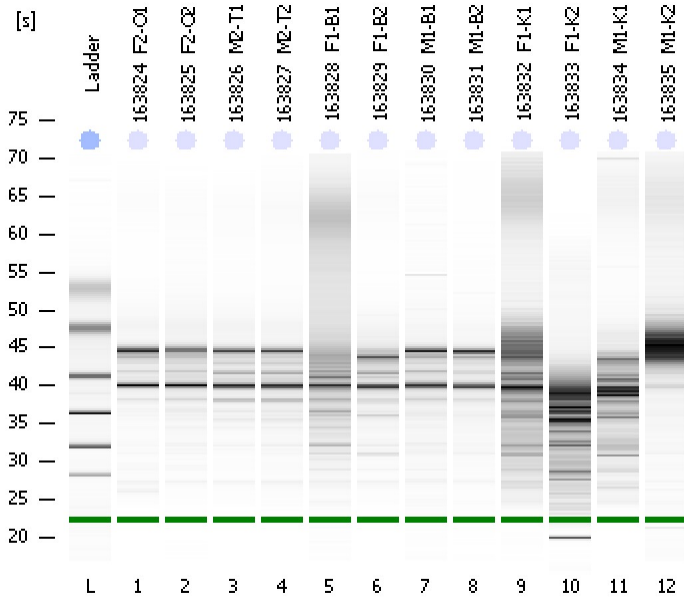


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
Modified: 7/18/2019 4:08:58 PM

Electrophoresis File Run Summary



Instrument Information:

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

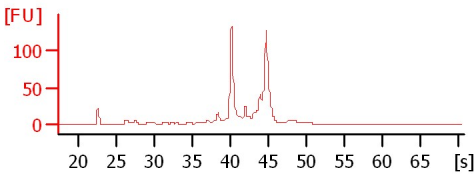
Assay Information:

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.

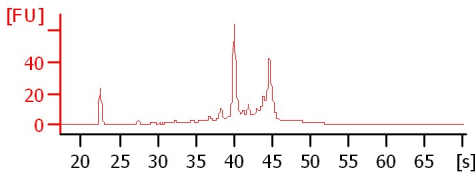
Chip Information:

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

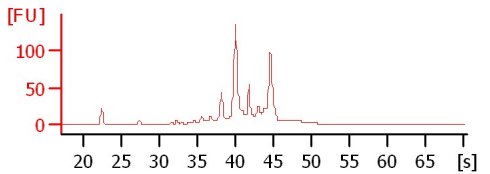
163824_F2-O1
RIN: 8.70



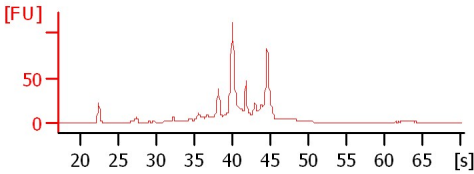
163825_F2-O2
RIN: 8



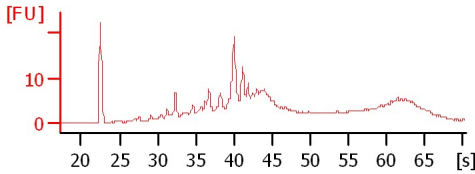
163826_M2-T1
RIN: 7.80



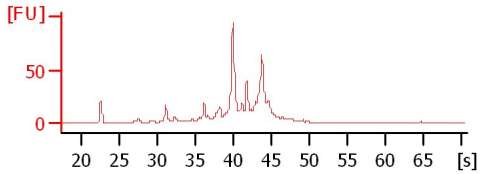
163827_M2-T2
RIN: 7.50



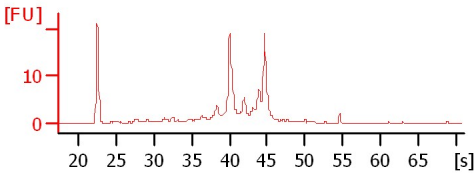
163828_F1-B1
RIN: 5.60



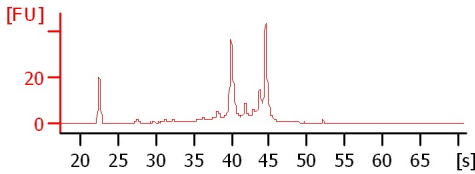
163829_F1-B2
RIN: 6.30



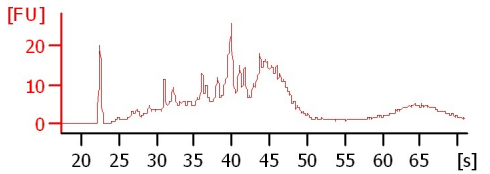
163830_M1-B1
RIN: 7.90



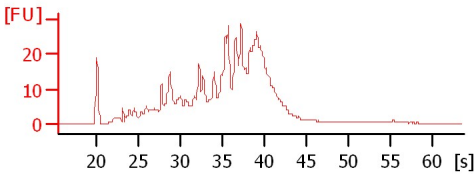
163831_M1-B2
RIN: 5.40



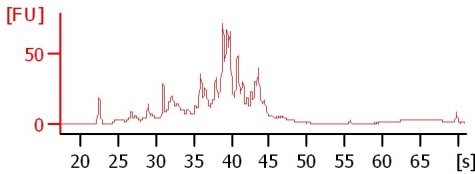
163832_F1-K1
RIN: 4.60



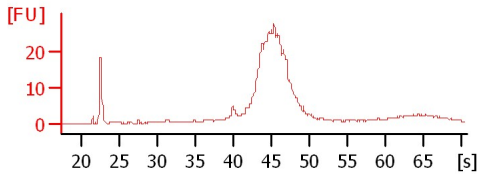
163833_F1-K2
RIN: 4.90



163834_M1-K1
RIN: 4.30



163835_M1-K2
RIN: 8.40



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
Modified: 7/18/2019 4:08:58 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
163824_F2-O1		✓	RIN: 8.70	
163825_F2-O2		✓	RIN:8	
163826_M2-T1		✓	RIN: 7.80	
163827_M2-T2		✓	RIN: 7.50	
163828_F1-B1		✓	RIN: 5.60	
163829_F1-B2		✓	RIN: 6.30	
163830_M1-B1		✓	RIN: 7.90	
163831_M1-B2		✓	RIN: 5.40	
163832_F1-K1		✓	RIN: 4.60	
163833_F1-K2		✓	RIN: 4.90	
163834_M1-K1		✓	RIN: 4.30	
163835_M1-K2		✓	RIN: 8.40	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
Modified: 7/18/2019 4:08:58 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

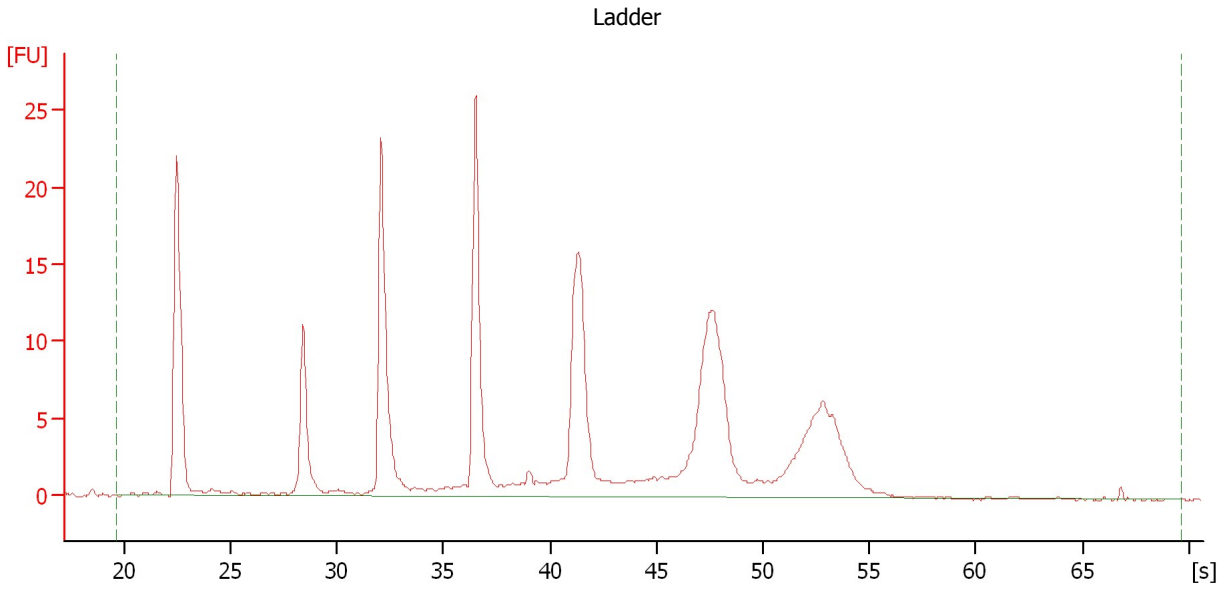
Ladder

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\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
Modified: 7/18/2019 4:08:58 PM

Electropherogram Summary



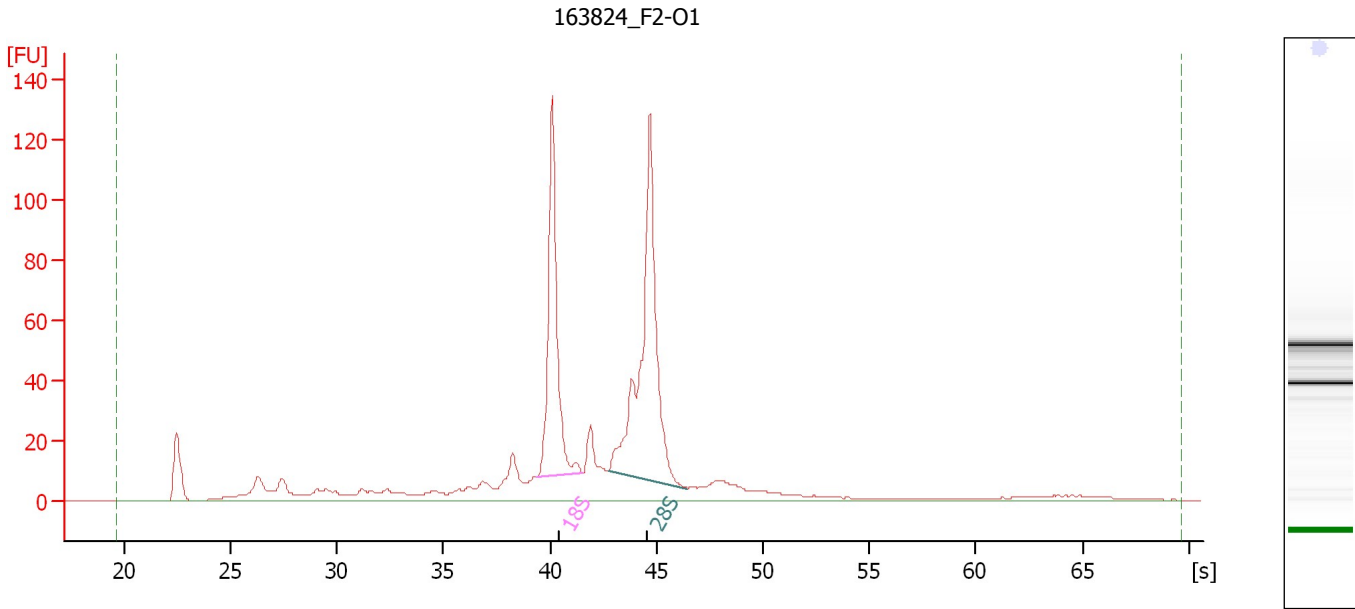
Overall Results for Ladder

RNA Area:	198.1	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\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
Modified: 7/18/2019 4:08:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 163824 F2-O1

RNA Area: 749.4 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 567 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 8.70

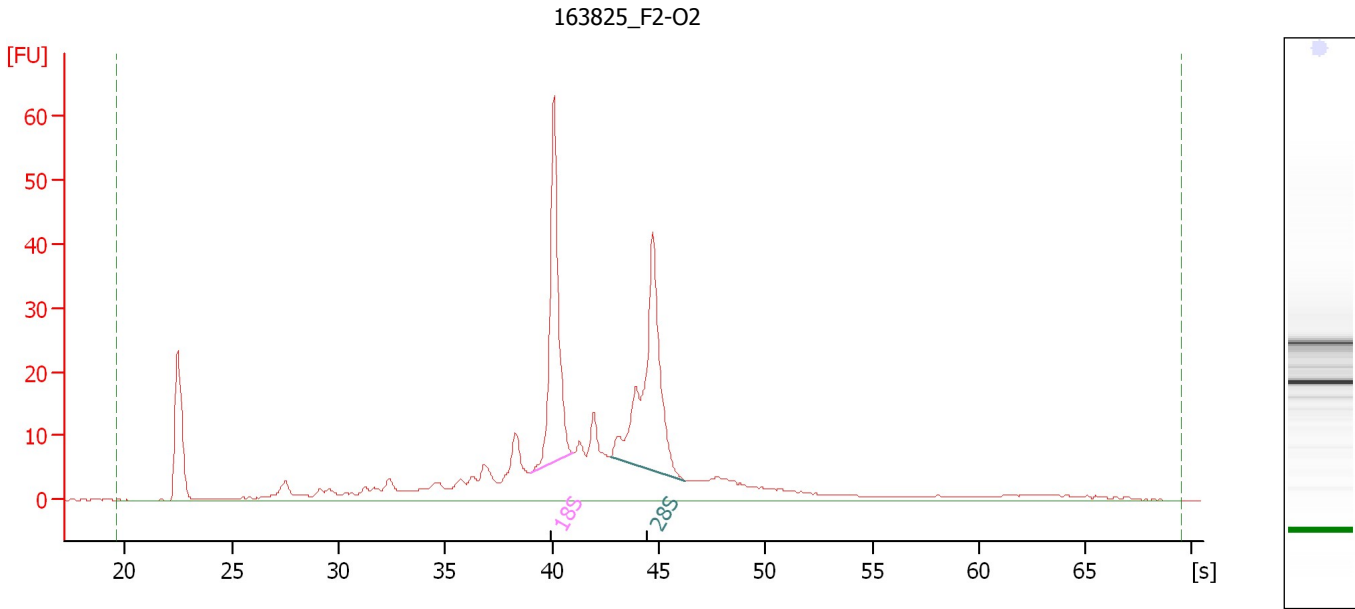
Fragment table for sample 1 : 163824 F2-O1

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.40	41.57	147.1	19.6
28S	42.73	46.46	215.7	28.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
Modified: 7/18/2019 4:08:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 163825 F2-O2

RNA Area: 380.0 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 288 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN:8

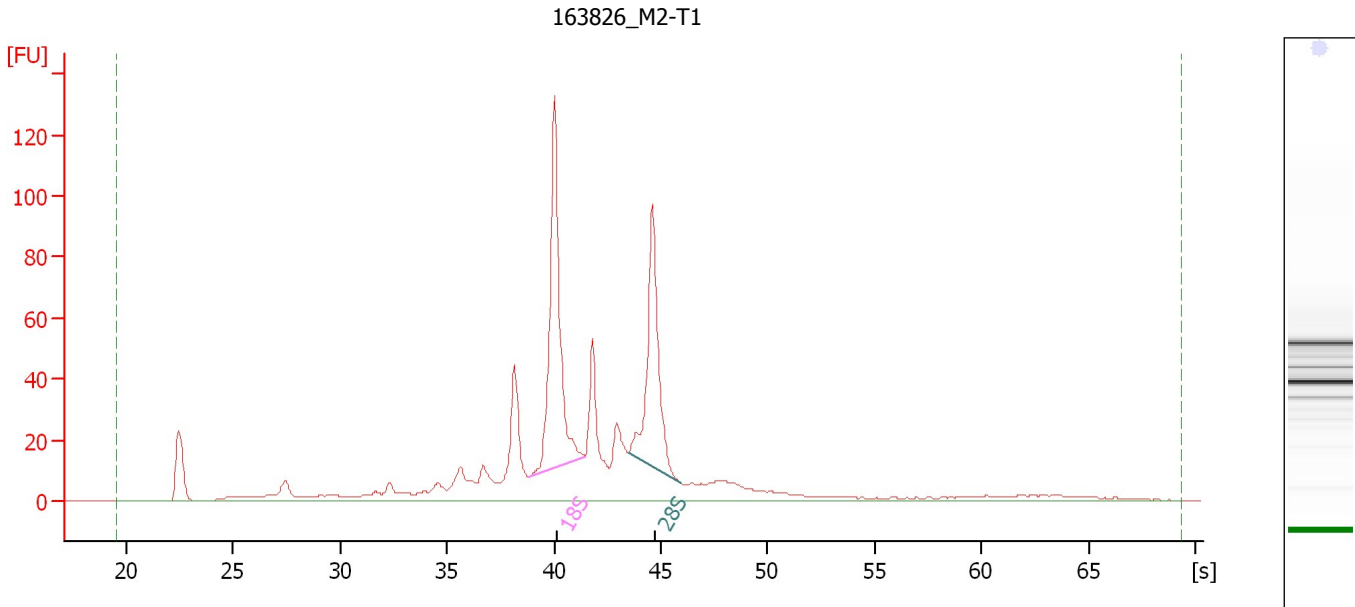
Fragment table for sample 2 : 163825 F2-O2

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.01	40.97	65.2	17.2
28S	42.73	46.26	75.3	19.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
 Modified: 7/18/2019 4:08:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 163826 M2-T1

RNA Area:	786.8	RNA Integrity Number (RIN):	7.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	596 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 7.80

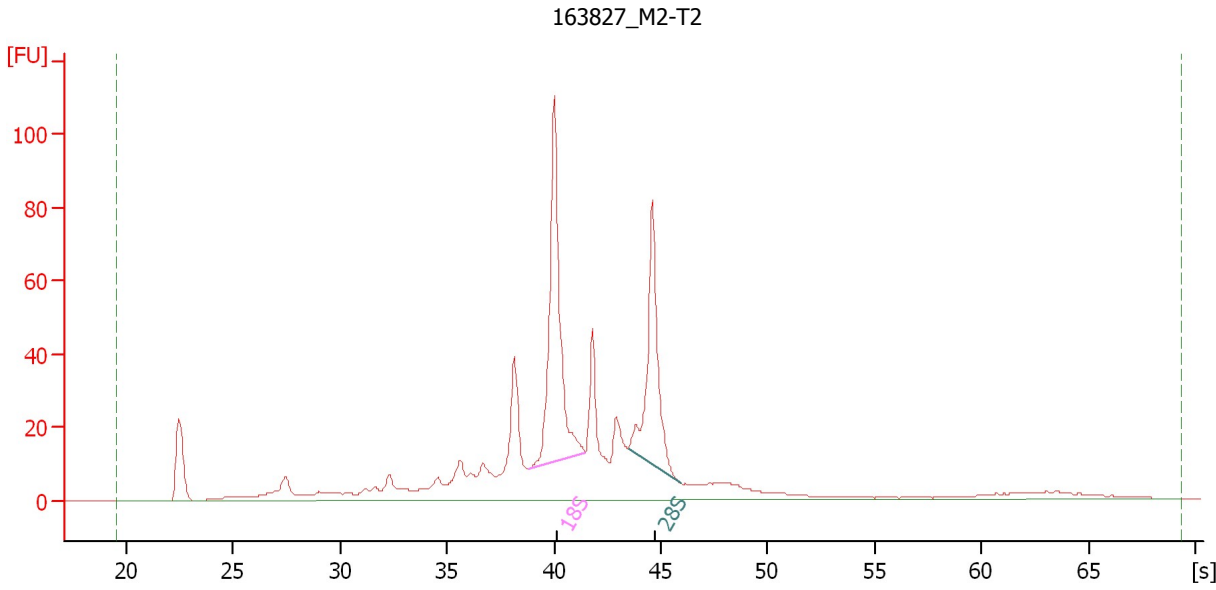
Fragment table for sample 3 : 163826 M2-T1

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.87	41.48	159.1	20.2
28S	43.49	45.95	116.2	14.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
Modified: 7/18/2019 4:08:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 163827 M2-T2

RNA Area:	702.8	RNA Integrity Number (RIN):	7.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	532 ng/μl		
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Color:	
		Result Flagging Label:	RIN: 7.50

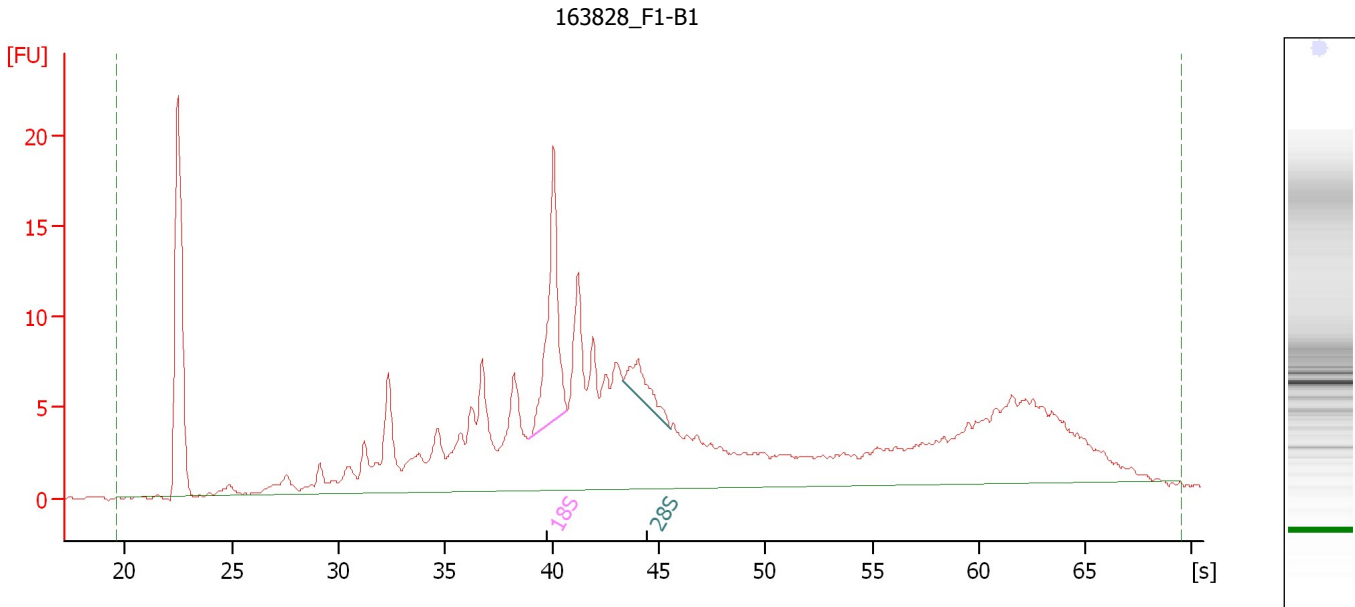
Fragment table for sample 4 : 163827 M2-T2

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.87	41.48	136.0	19.3
28S	43.49	45.90	91.0	13.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
Modified: 7/18/2019 4:08:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 163828 F1-B1

RNA Area: 282.6 RNA Integrity Number (RIN): 5.6 (B.02.08)
RNA Concentration: 214 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.2 Result Flagging Label: RIN: 5.60

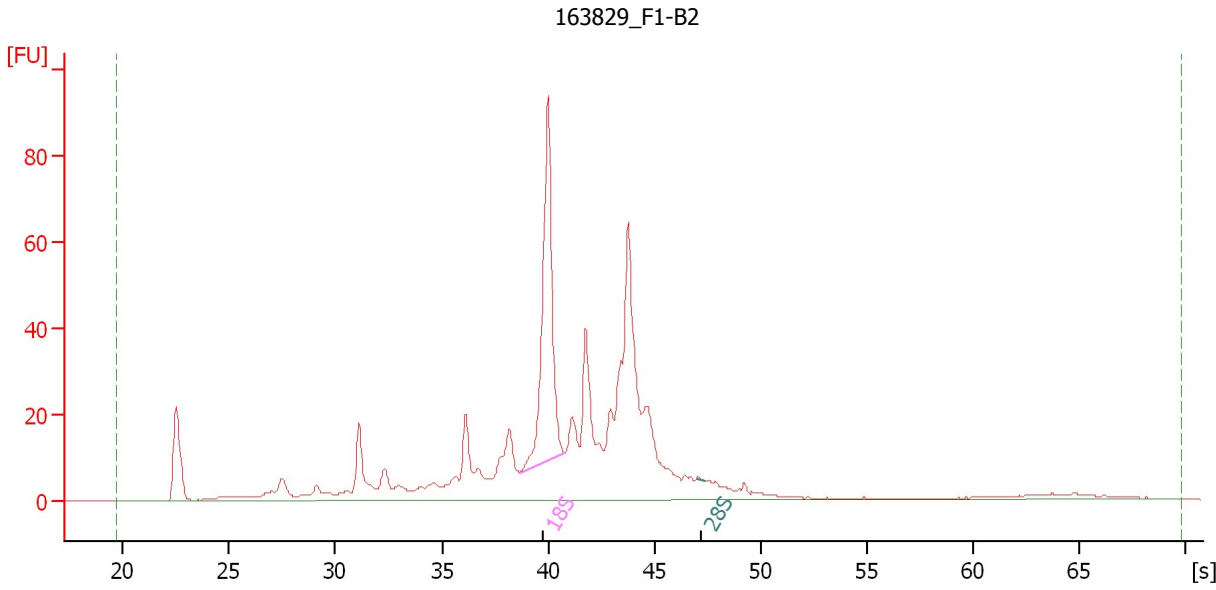
Fragment table for sample 5 : 163828 F1-B1

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.96	40.72	20.1	7.1
28S	43.34	45.55	4.8	1.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
Modified: 7/18/2019 4:08:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 163829 F1-B2

RNA Area: 621.4 RNA Integrity Number (RIN): 6.3 (B.02.08)
RNA Concentration: 471 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 6.30

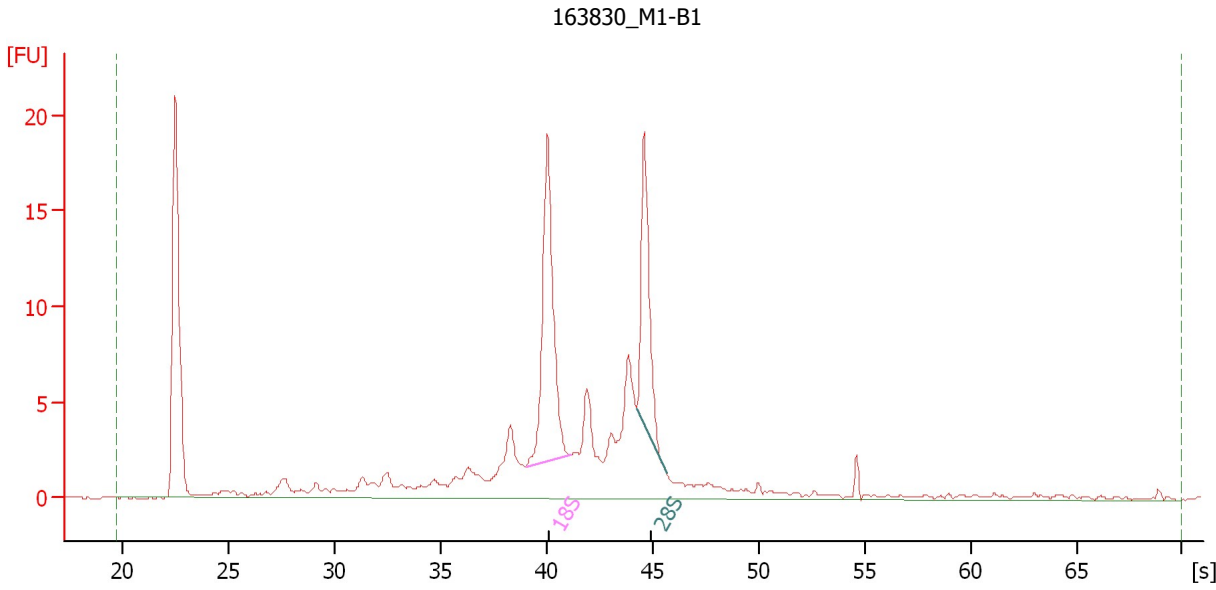
Fragment table for sample 6 : 163829 F1-B2

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.68	40.75	105.6	17.0
28S	46.97	47.38	0.2	0.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
 Modified: 7/18/2019 4:08:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 163830 M1-B1

RNA Area:	133.9	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	101 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 7.90

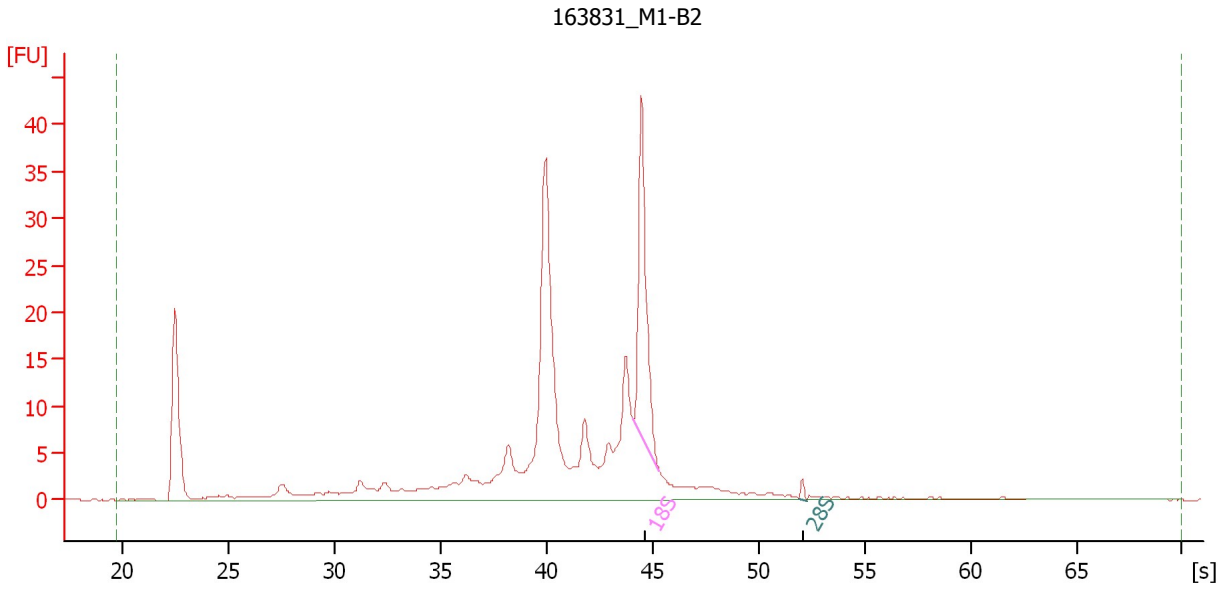
Fragment table for sample 7 : 163830 M1-B1

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.07	41.15	24.2	18.1
28S	44.24	45.66	14.6	10.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
 Modified: 7/18/2019 4:08:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 163831 M1-B2

RNA Area:	231.5	RNA Integrity Number (RIN):	5.4 (B.02.08)
RNA Concentration:	175 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.40

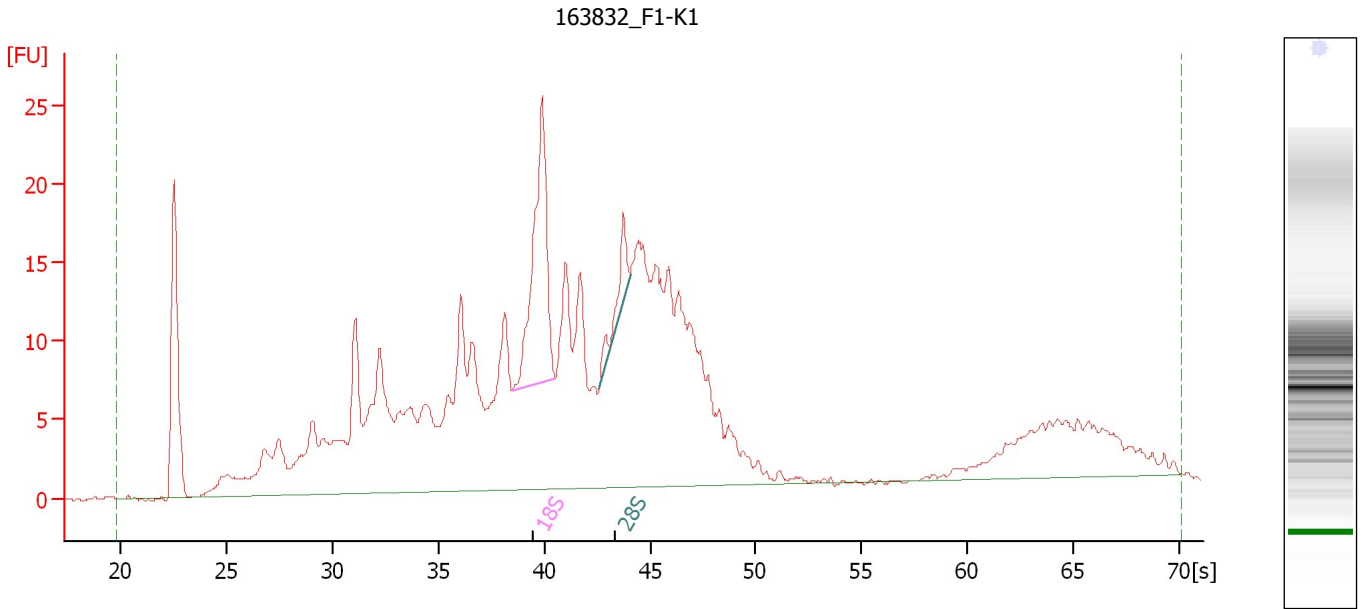
Fragment table for sample 8 : 163831 M1-B2

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	44.09	45.35	33.5	14.5
28S	51.89	52.30	0.9	0.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
Modified: 7/18/2019 4:08:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 163832 F1-K1

RNA Area: 497.5 RNA Integrity Number (RIN): 4.6 (B.02.08)
RNA Concentration: 377 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.2 Result Flagging Label: RIN: 4.60

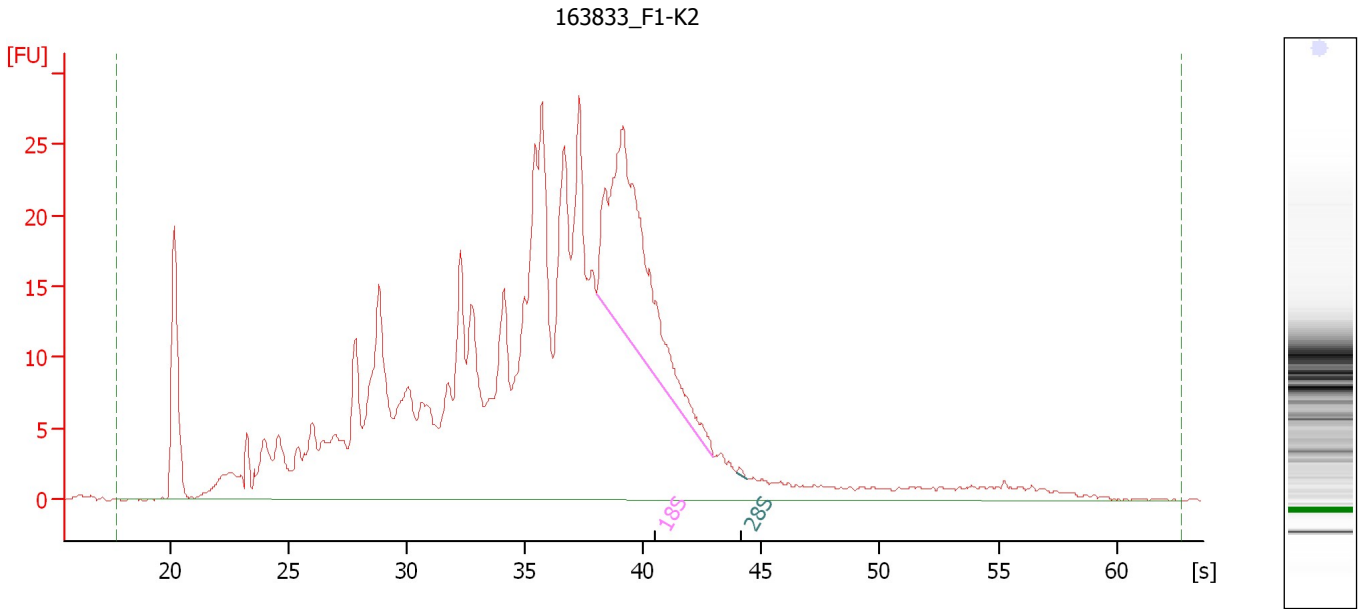
Fragment table for sample 9 : 163832 F1-K1

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.50	40.53	31.8	6.4
28S	42.61	44.09	6.0	1.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
Modified: 7/18/2019 4:08:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 163833 F1-K2

RNA Area: 666.1 RNA Integrity Number (RIN): 4.9 (B.02.08)
RNA Concentration: 504 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 4.90

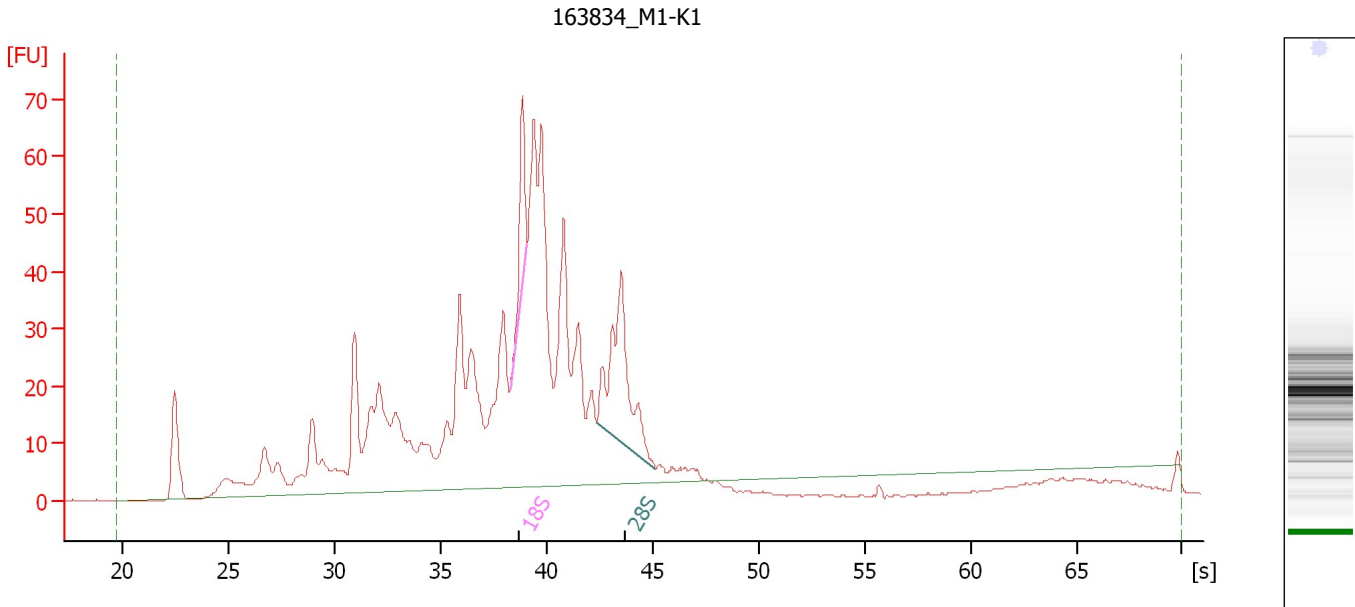
Fragment table for sample 10 : 163833 F1-K2

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.00	42.95	68.2	10.2
28S	43.91	44.36	0.3	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
Modified: 7/18/2019 4:08:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 163834 M1-K1

RNA Area: 854.9 RNA Integrity Number (RIN): 4.3 (B.02.08)
RNA Concentration: 647 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.6 Result Flagging Label: RIN: 4.30

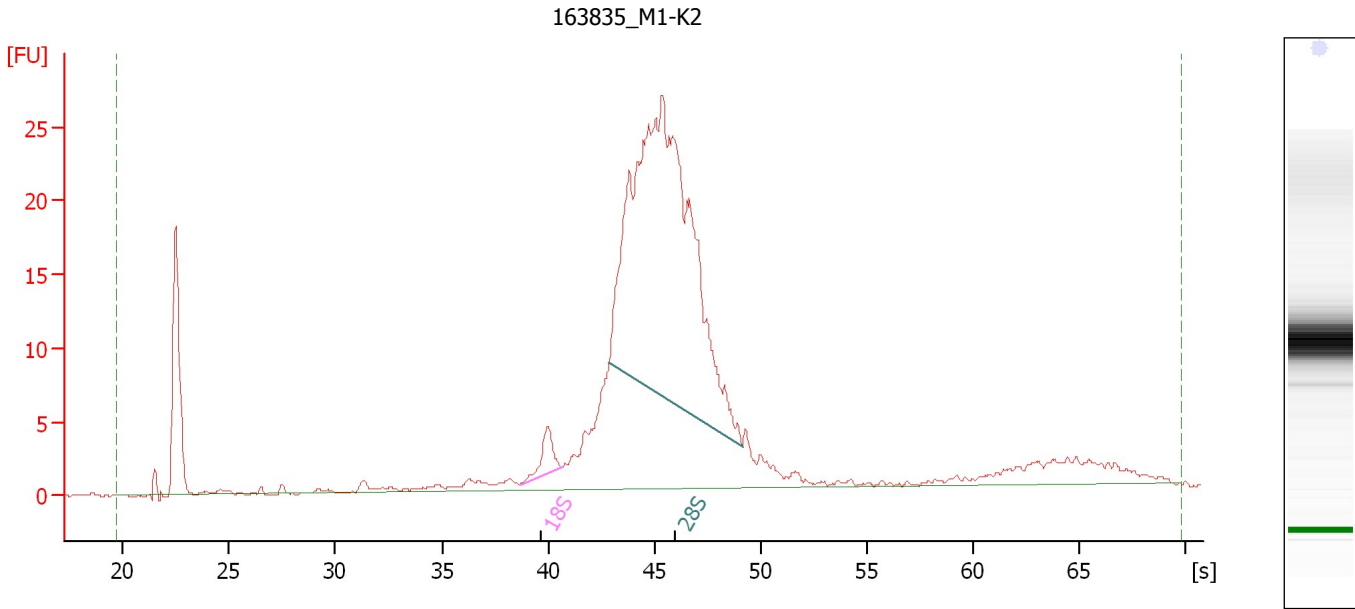
Fragment table for sample 11 : 163834 M1-K1

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.31	39.12	24.4	2.9
28S	42.42	45.15	62.8	7.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
 Modified: 7/18/2019 4:08:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 163835 M1-K2

RNA Area:	295.0	RNA Integrity Number (RIN):	8.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	223 ng/μl		
rRNA Ratio [28s / 18s]:	31.3	Result Flagging Color:	
		Result Flagging Label:	RIN: 8.40

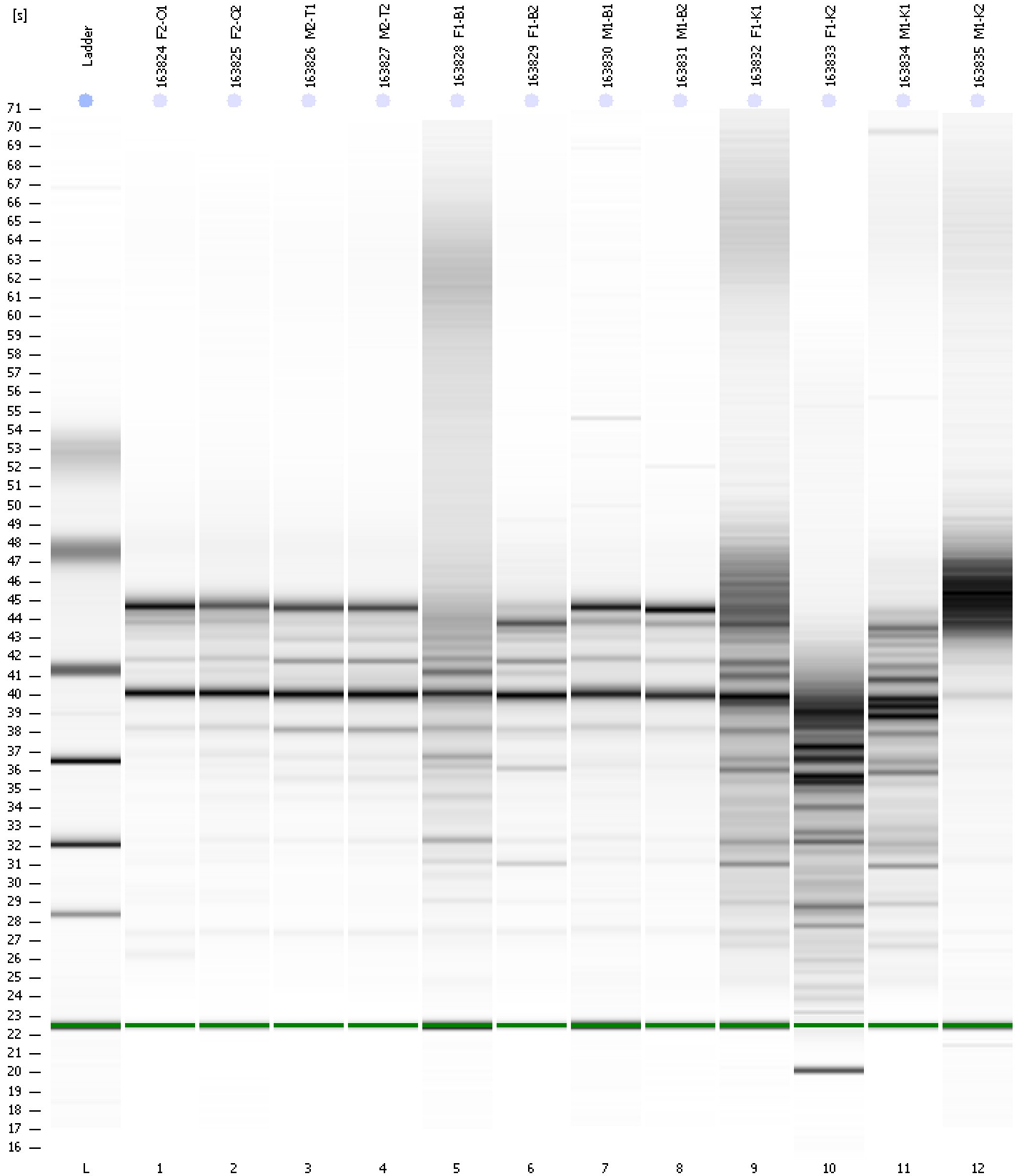
Fragment table for sample 12 : 163835 M1-K2

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.68	40.65	4.7	1.6
28S	42.88	49.15	147.5	50.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
Modified: 7/18/2019 4:08:58 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad

Created: 7/18/2019 3:43:04 PM
 Modified: 7/18/2019 4:08:58 PM

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		7/18/2019 4:06:54 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-07-18\2019-07-18_003.xad)		Instrument	Run		7/18/2019 3:43:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/18/2019 3:43:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/18/2019 3:43:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/18/2019 3:43:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/18/2019 3:43:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/18/2019 3:43:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/18/2019 3:43:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1