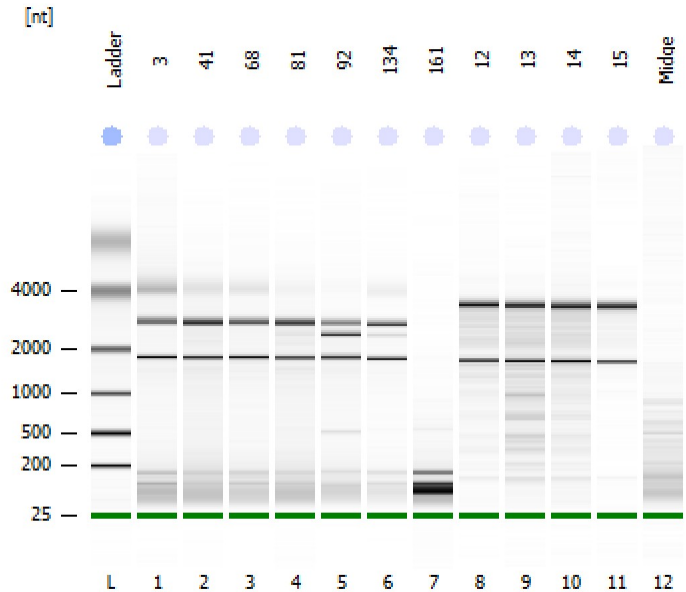


Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
Modified: 2/19/2020 3:54:16 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 (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy

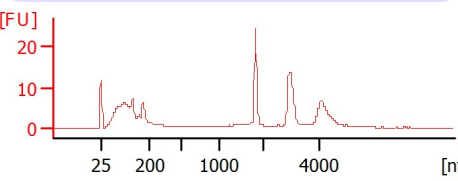
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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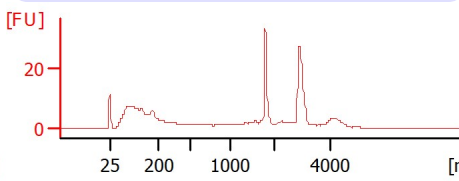
Chip Information:

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

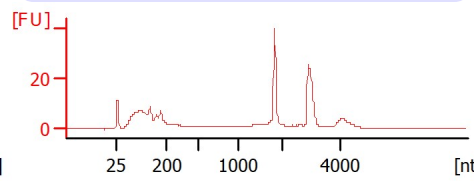
HiSeq2063
RIN: 7.70



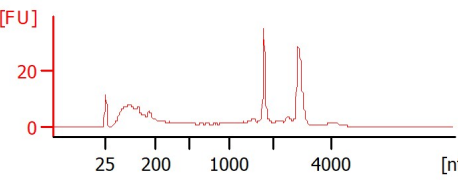
HiSeq2063
RIN: 6.20



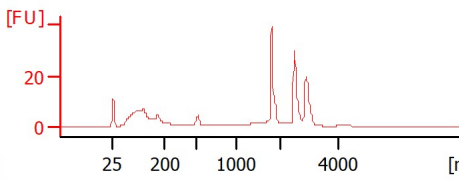
HiSeq2063
RIN: 6.40



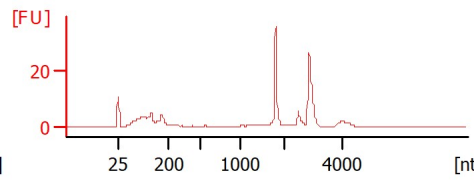
HiSeq2063
RIN: 6.20



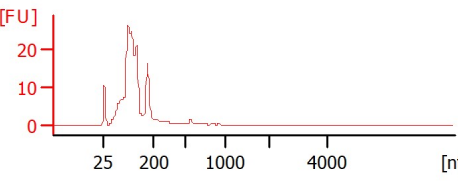
HiSeq2063
RIN: 6.30



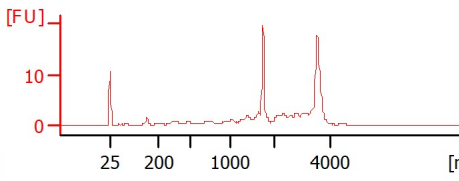
HiSeq2063
RIN: 7.60



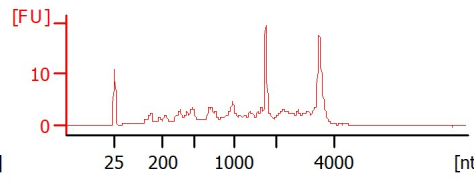
HiSeq2063
RIN: 2.50



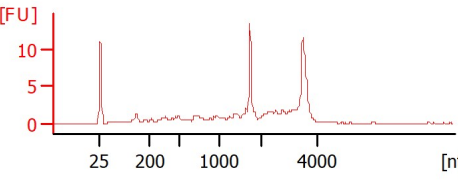
NovaSeq165
RIN: 8



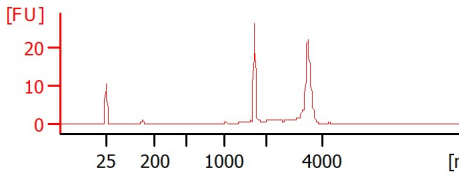
NovaSeq165
RIN: 6.70



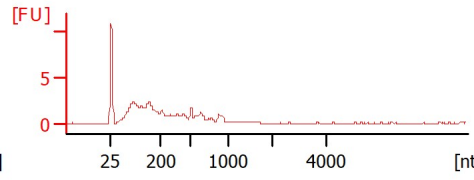
NovaSeq165
RIN: 7.80



NovaSeq165
RIN: 9.80



RIN: 2



Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
 Modified: 2/19/2020 3:54:16 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
3	HiSeq2063	✓	RIN: 7.70	
41	HiSeq2063	✓	RIN: 6.20	
68	HiSeq2063	✓	RIN: 6.40	
81	HiSeq2063	✓	RIN: 6.20	
92	HiSeq2063	✓	RIN: 6.30	
134	HiSeq2063	✓	RIN: 7.60	
161	HiSeq2063	✓	RIN: 2.50	
12	NovaSeq165	✓	RIN:8	
13	NovaSeq165	✓	RIN: 6.70	
14	NovaSeq165	✓	RIN: 7.80	
15	NovaSeq165	✓	RIN: 9.80	
Midge		✓	RIN:2	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
 Modified: 2/19/2020 3:54:16 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/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

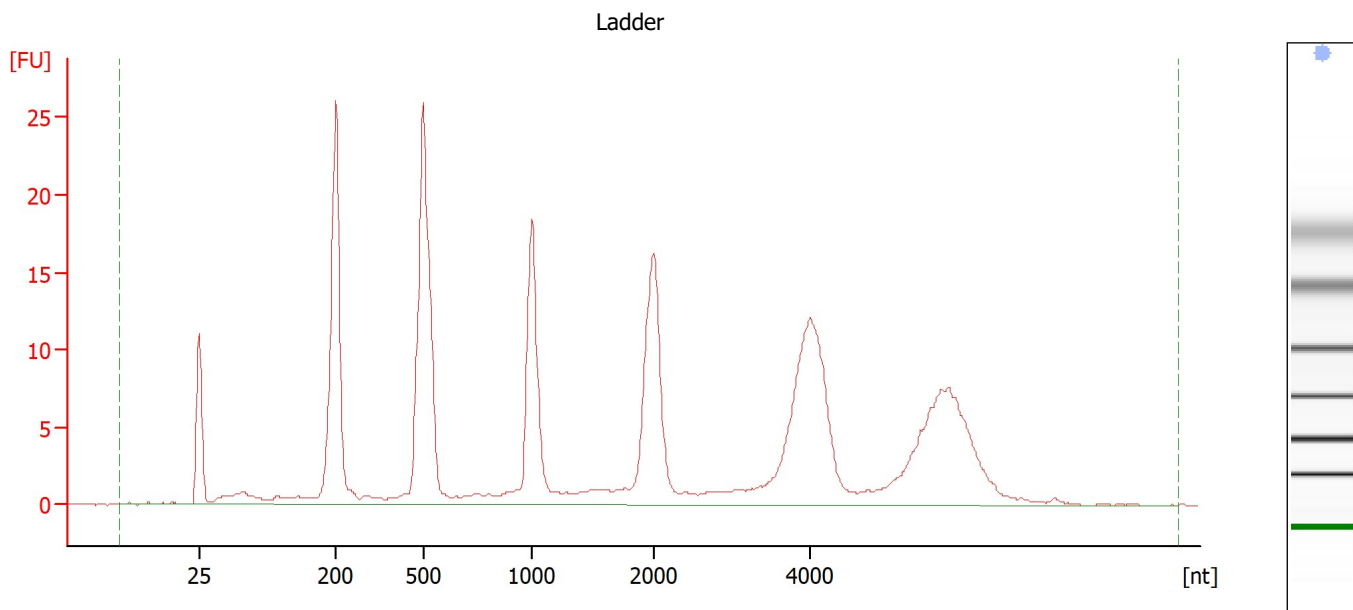
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
Modified: 2/19/2020 3:54:16 PM

Electropherogram Summary



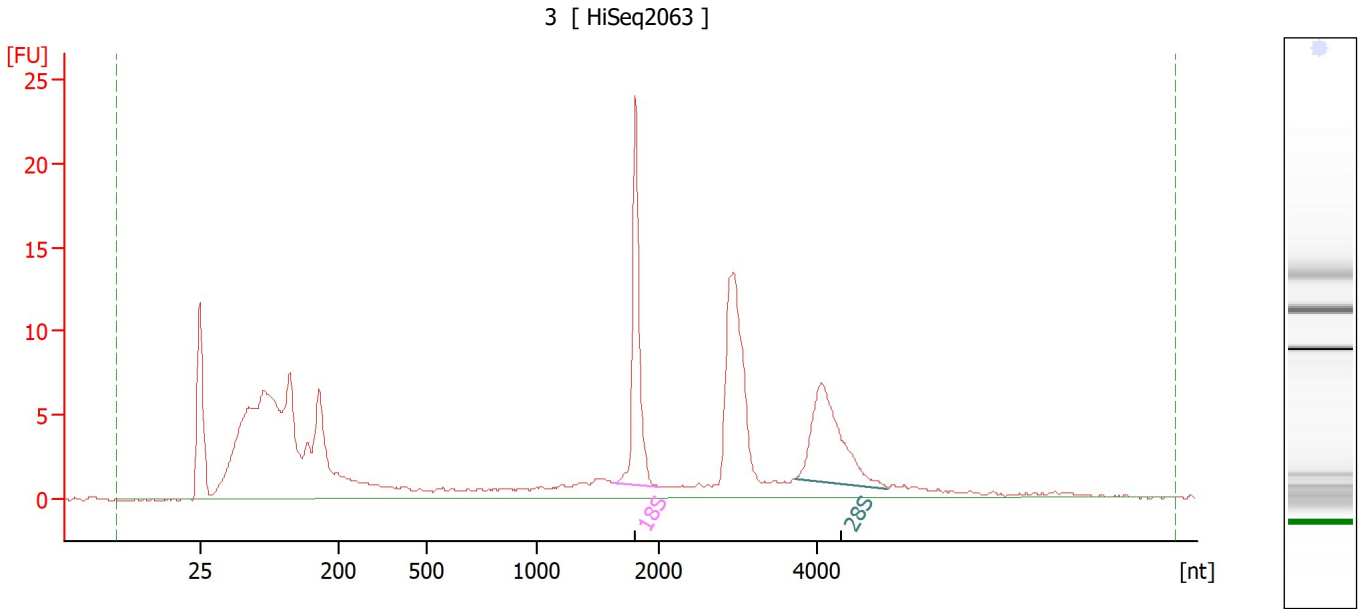
Overall Results for Ladder

RNA Area:	268.6	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
 Modified: 2/19/2020 3:54:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 3

RNA Area:	203.9	RNA Integrity Number (RIN):	7.7 (B.02.10)
RNA Concentration:	114 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 7.70

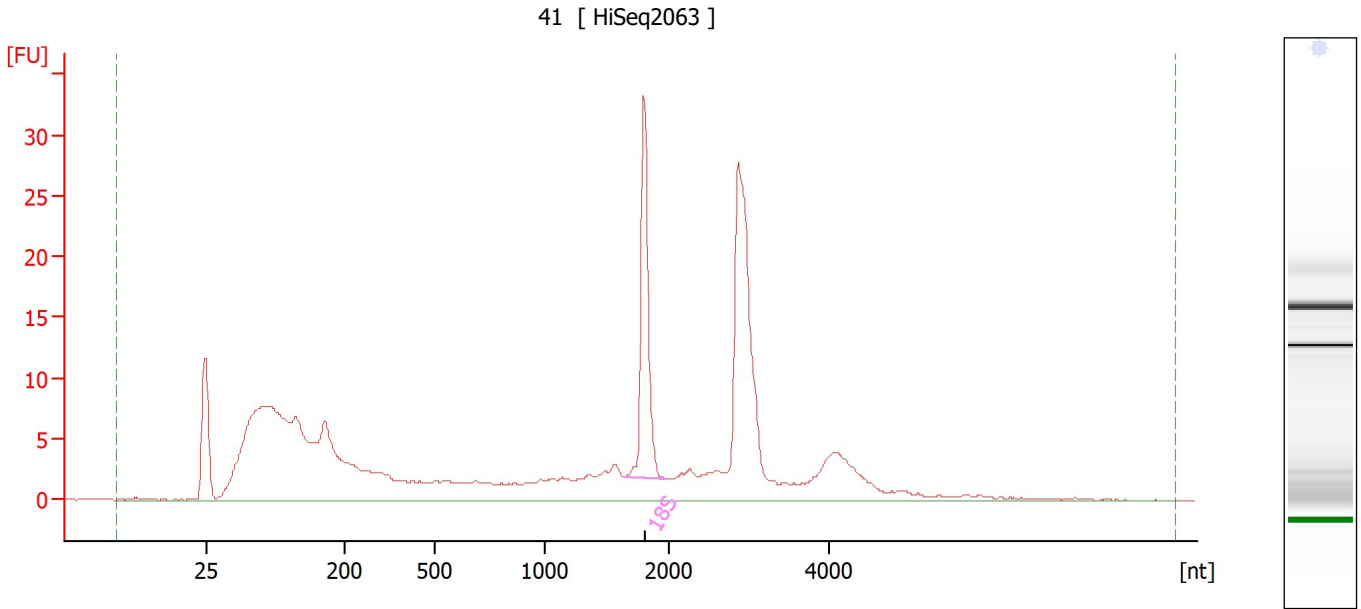
Fragment table for sample 1 : 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	2,018	19.7	9.7
28S	3,717	4,891	17.6	8.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
 Modified: 2/19/2020 3:54:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 41

RNA Area:	301.4	RNA Integrity Number (RIN):	6.2 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	168 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.20

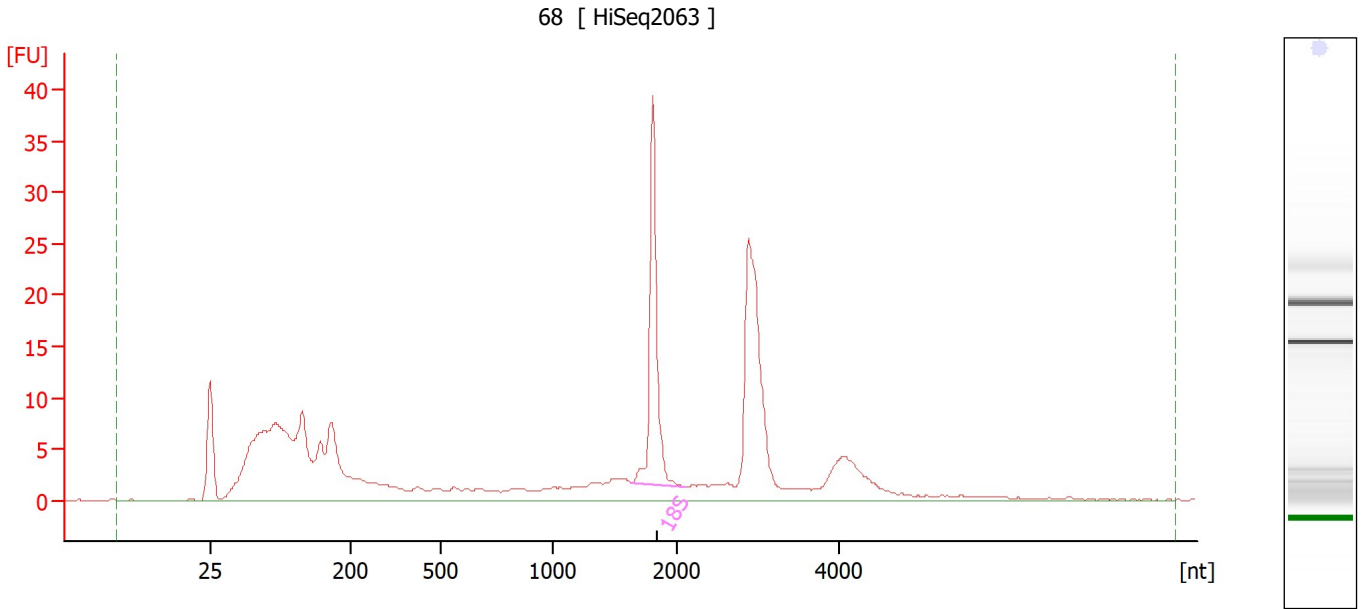
Fragment table for sample 2 : 41

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,641	1,989	26.8	8.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
 Modified: 2/19/2020 3:54:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 68

RNA Area:	269.2	RNA Integrity Number (RIN):	6.4 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	150 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.40

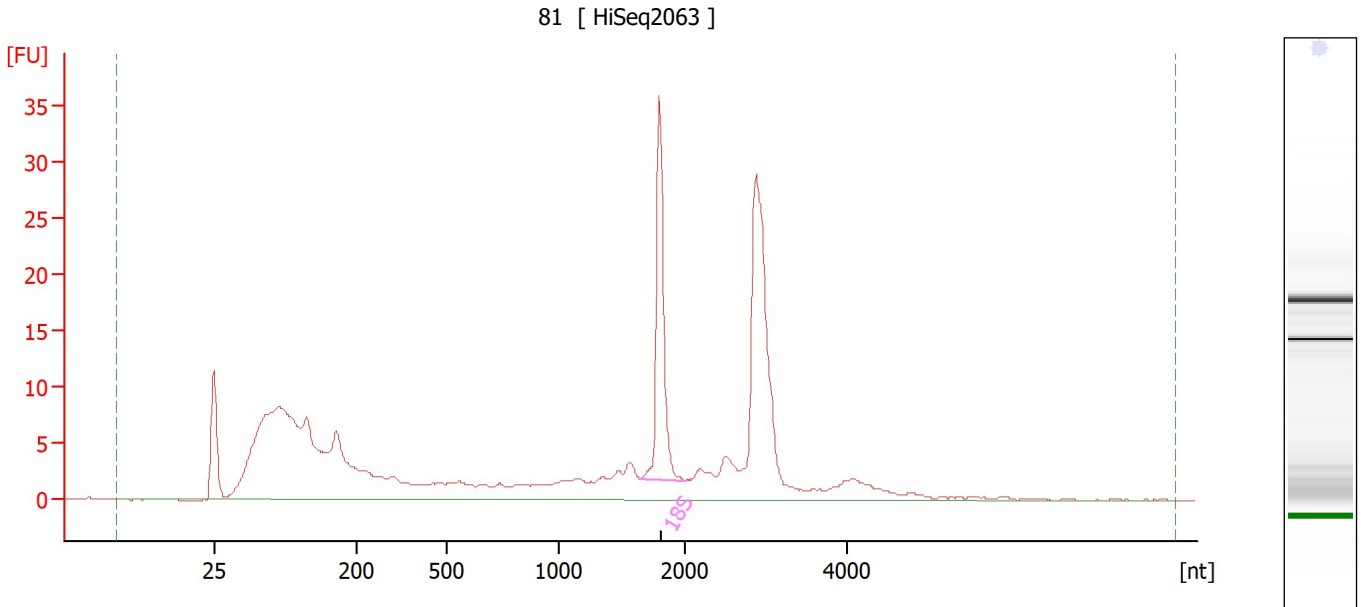
Fragment table for sample 3 : 68

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,630	2,093	33.1	12.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
 Modified: 2/19/2020 3:54:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 81

RNA Area:	282.8	RNA Integrity Number (RIN):	6.2 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	158 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.20

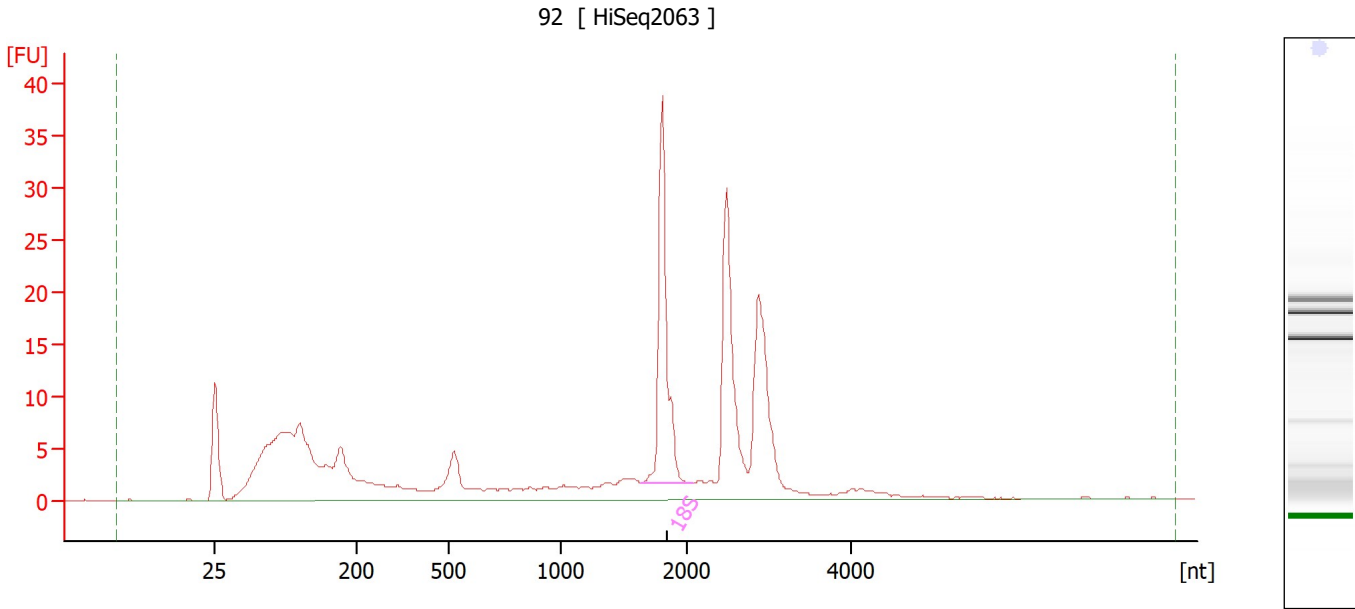
Fragment table for sample 4 : 81

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	1,995	27.8	9.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
 Modified: 2/19/2020 3:54:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 92

RNA Area:	253.9	RNA Integrity Number (RIN):	6.3 (B.02.10)
RNA Concentration:	142 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.30

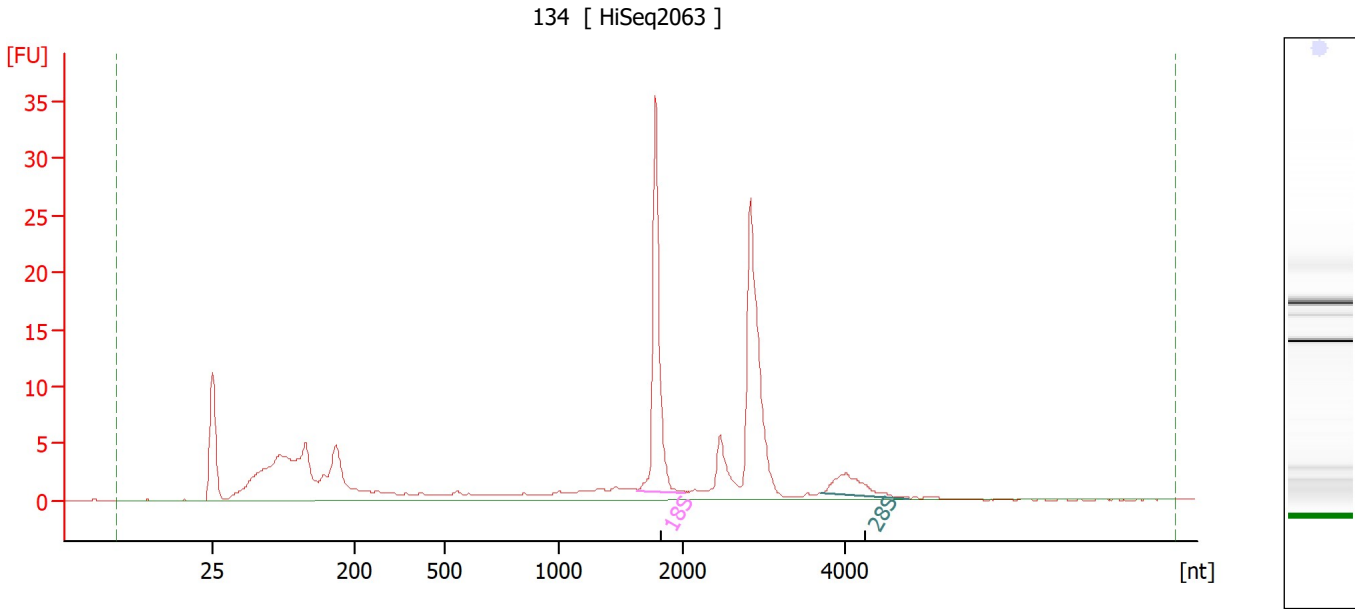
Fragment table for sample 5 : 92

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,638	2,072	33.8	13.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
 Modified: 2/19/2020 3:54:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 134

RNA Area:	162.2	RNA Integrity Number (RIN):	7.6 (B.02.10)
RNA Concentration:	91 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 7.60

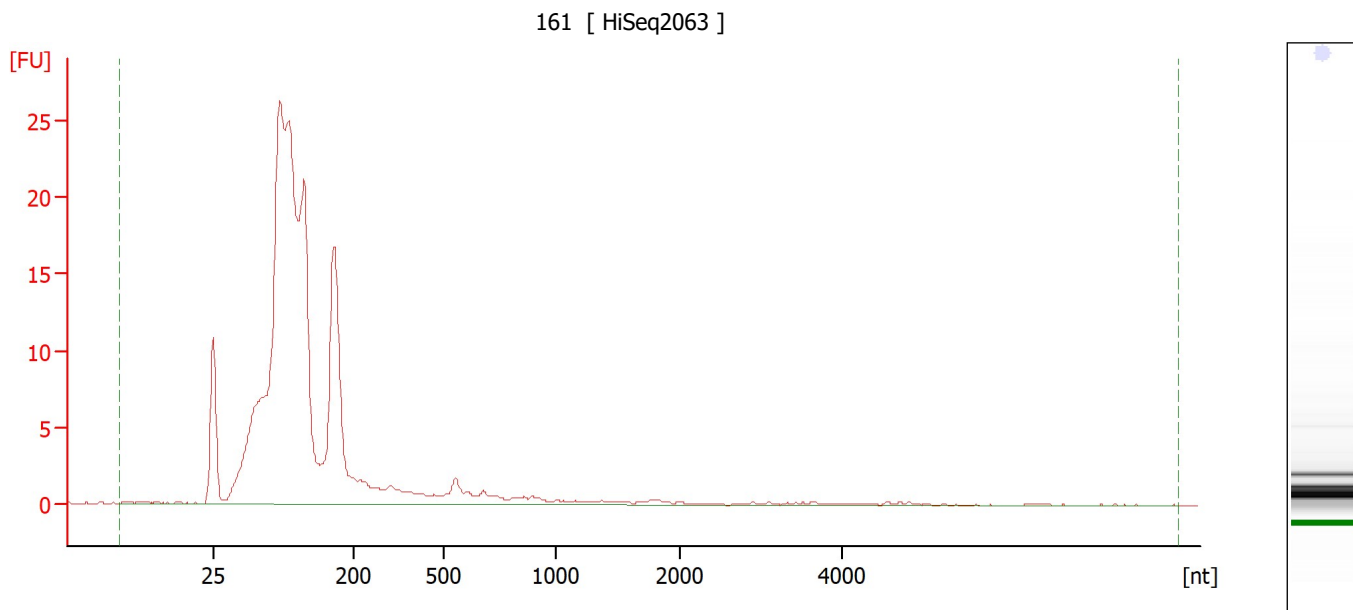
Fragment table for sample 6 : 134

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	2,030	27.2	16.7
28S	3,701	4,792	5.8	3.6

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
Modified: 2/19/2020 3:54:16 PM

Electropherogram Summary Continued ...



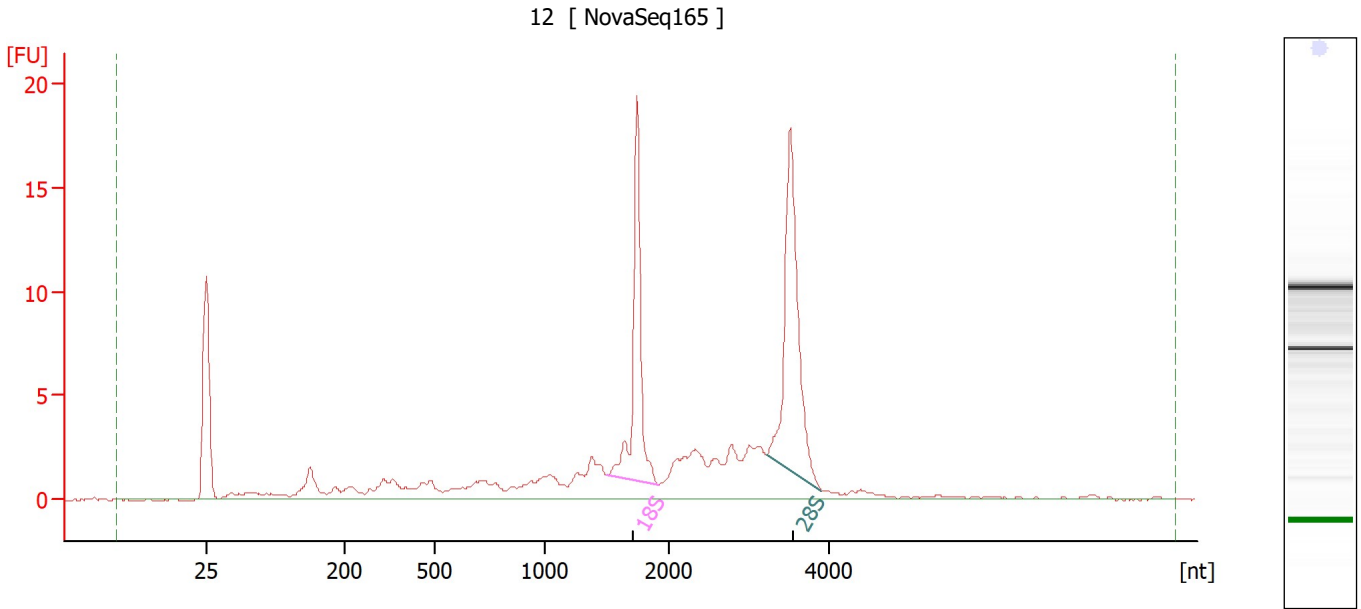
Overall Results for sample 7 : 161

RNA Area:	238.9	RNA Integrity Number (RIN):	2.5 (B.02.10)
RNA Concentration:	133 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
 Modified: 2/19/2020 3:54:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 12

RNA Area:	106.4	RNA Integrity Number (RIN):	8 (B.02.10)
RNA Concentration:	59 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN:8

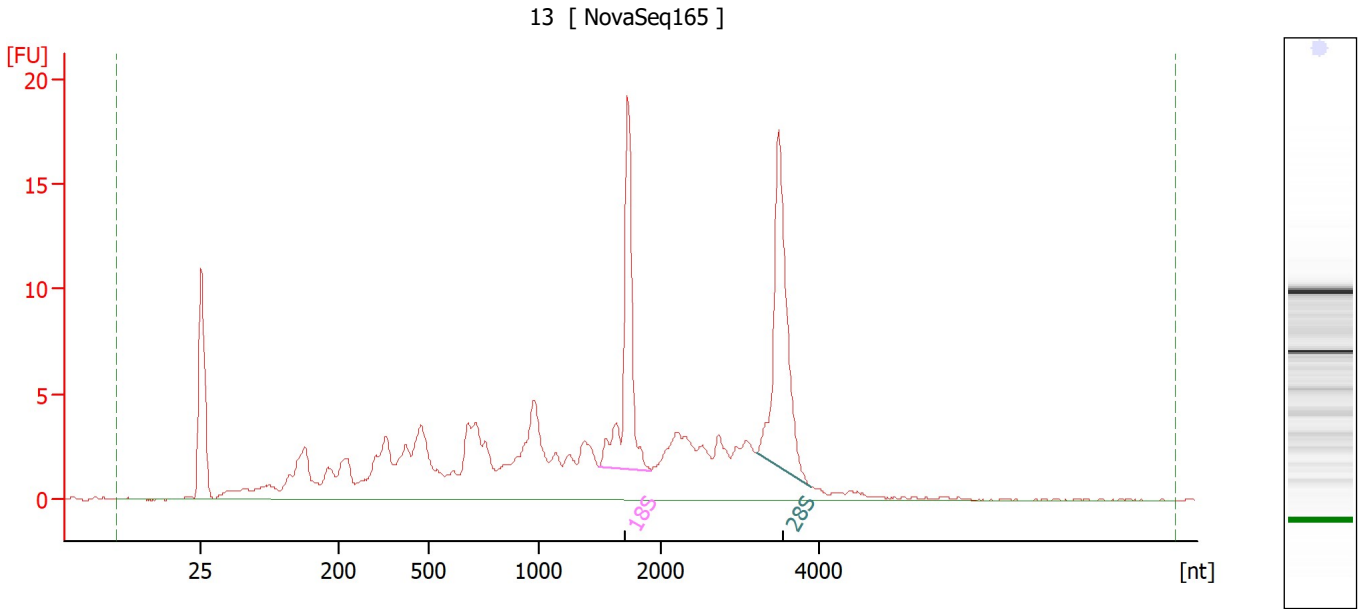
Fragment table for sample 8 : 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,503	1,919	17.6	16.6
28S	3,224	3,905	22.7	21.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
 Modified: 2/19/2020 3:54:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 13

RNA Area:	171.6	RNA Integrity Number (RIN):	6.7 (B.02.10)
RNA Concentration:	96 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 6.70

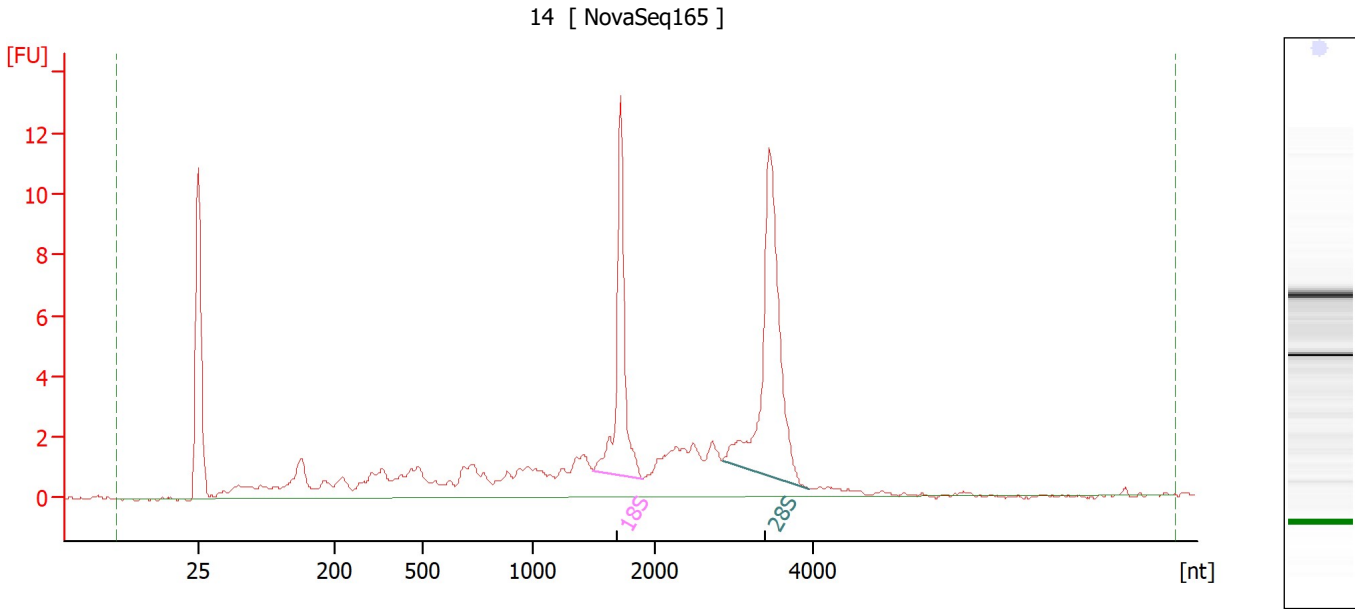
Fragment table for sample 9 : 13

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,495	1,924	17.6	10.3
28S	3,203	3,890	22.4	13.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
 Modified: 2/19/2020 3:54:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 14

RNA Area:	87.4	RNA Integrity Number (RIN):	7.8 (B.02.10)
RNA Concentration:	49 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 7.80

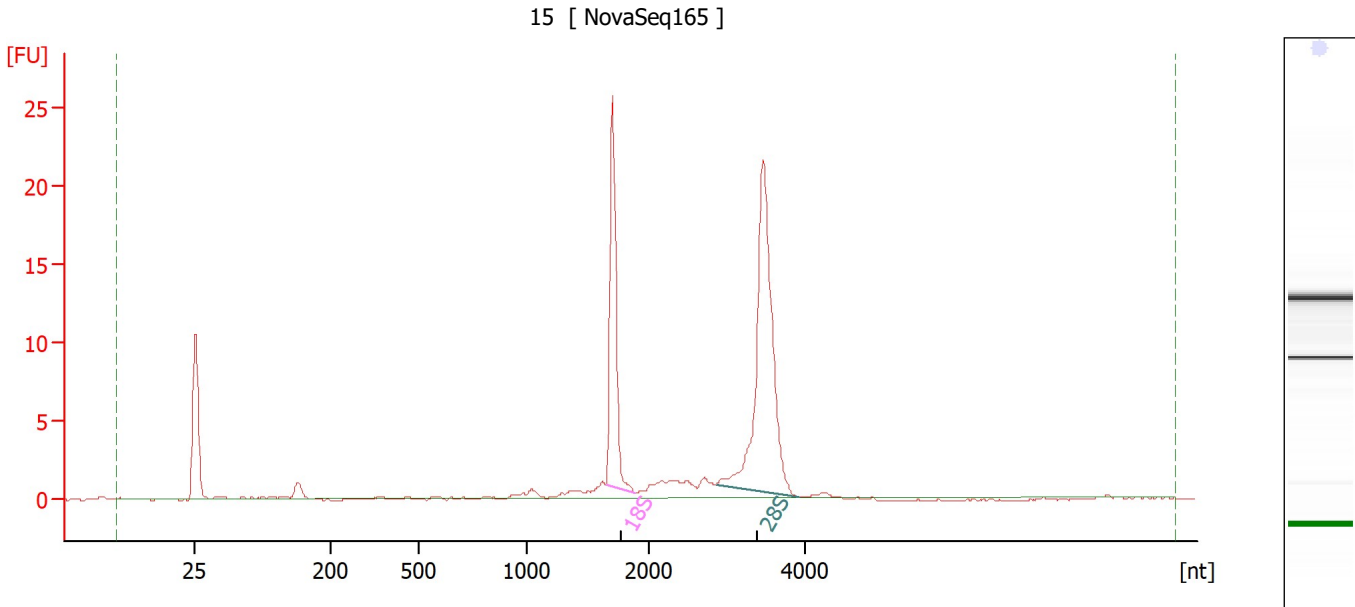
Fragment table for sample 10 : 14

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,499	1,904	12.2	13.9
28S	2,869	3,966	19.4	22.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
 Modified: 2/19/2020 3:54:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 15

RNA Area:	77.3	RNA Integrity Number (RIN):	9.8 (B.02.10)
RNA Concentration:	43 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.80

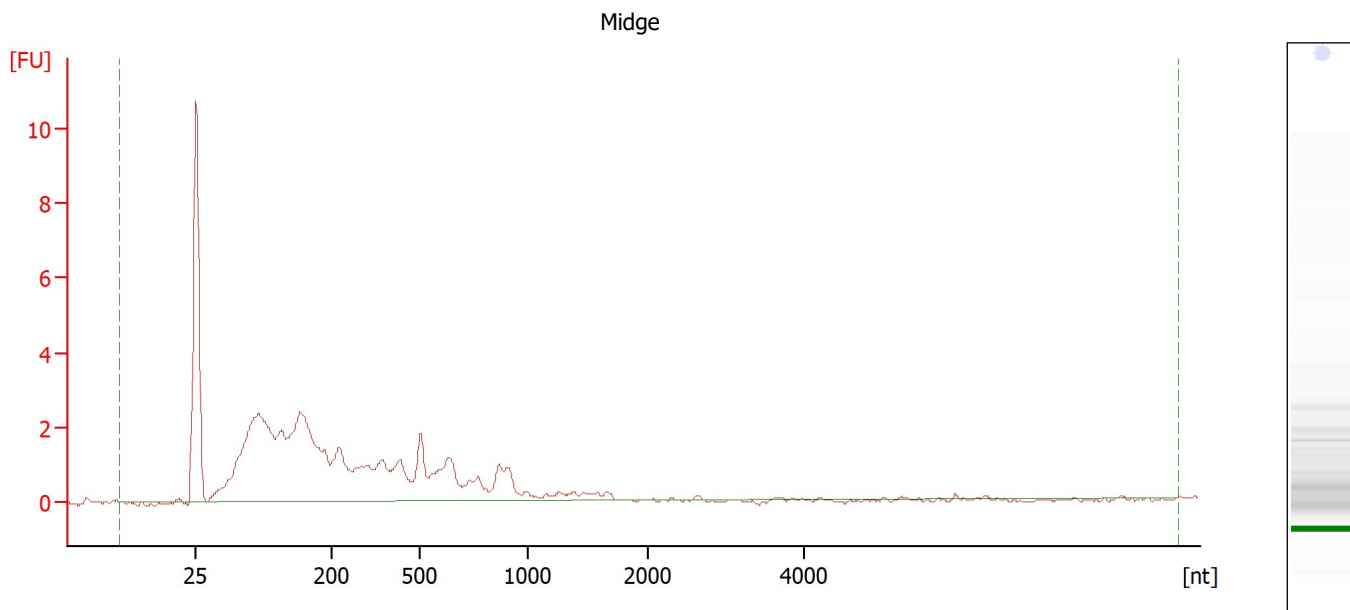
Fragment table for sample 11 : 15

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,653	1,892	18.3	23.7
28S	2,871	3,935	36.7	47.4

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
Modified: 2/19/2020 3:54:16 PM

Electropherogram Summary Continued ...



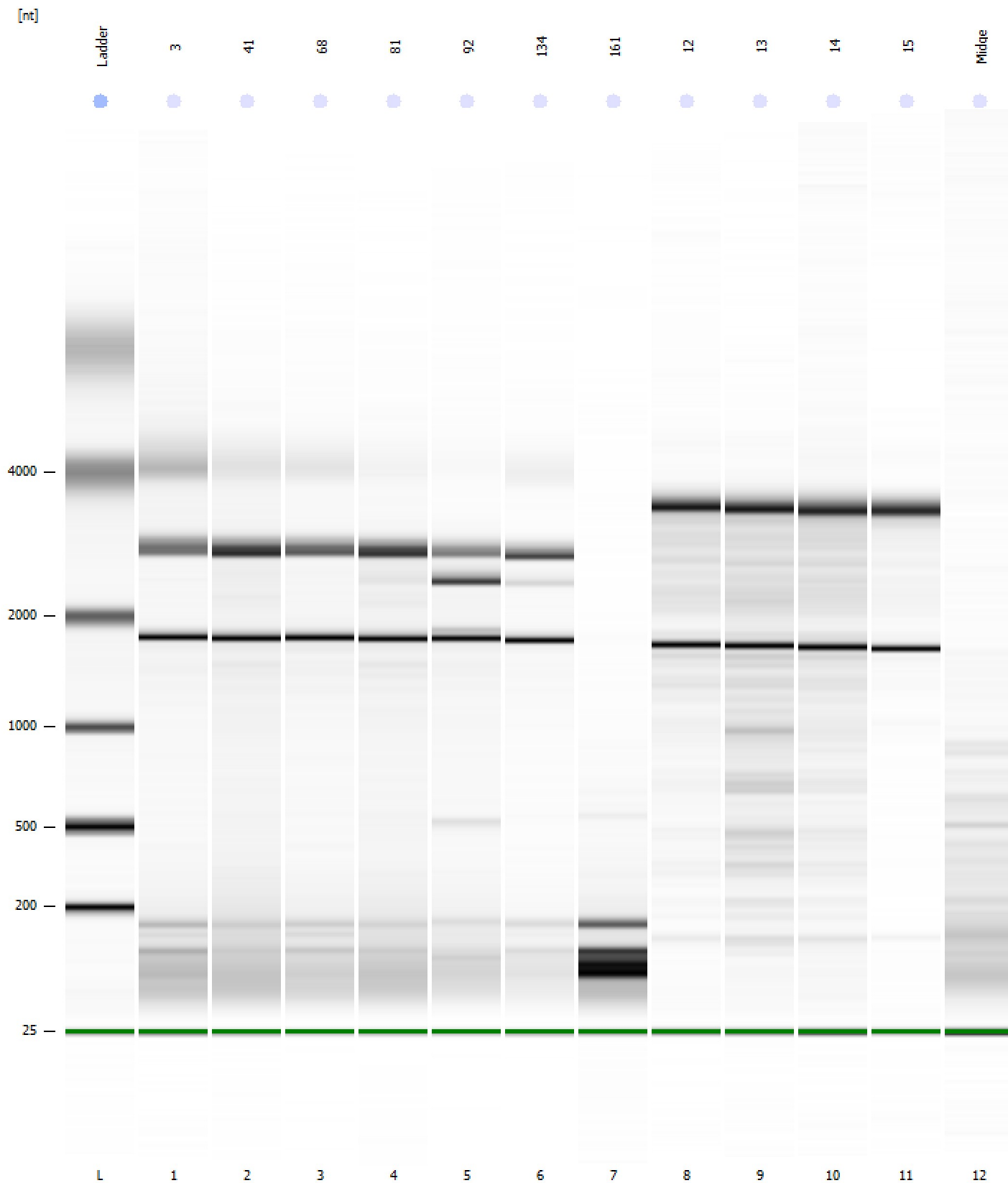
Overall Results for sample 12 : Midge

RNA Area:	54.7	RNA Integrity Number (RIN):	2 (B.02.10)
RNA Concentration:	31 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:2

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad

Created: 2/19/2020 3:30:25 PM
Modified: 2/19/2020 3:54:16 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 2/19/2020 3:30:25 PM
 Data Path: Z:\...19\Bioanalyzer1_Eukaryote Total RNA Nano_2020-02-19_001.xad Modified: 2/19/2020 3:54:16 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		2/19/2020 3:54:14 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-02-19\Bioanalyze r1_Eukaryote Total RNA Nano_2020-02-19_001.xad)		Instrument	Run		2/19/2020 3:30:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		2/19/2020 3:30:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		2/19/2020 3:30:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		2/19/2020 3:30:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		2/19/2020 3:30:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		2/19/2020 3:30:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		2/19/2020 3:30:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB