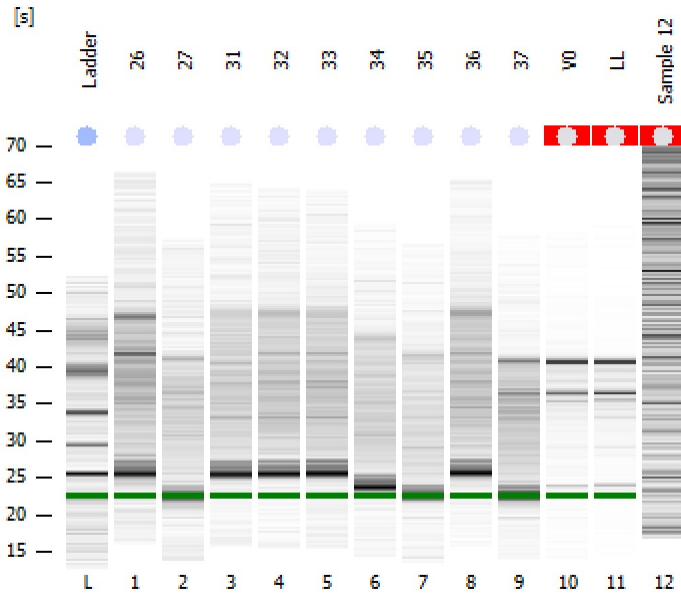


Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 AM

Electrophoresis File Run Summary



Instrument Information:

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

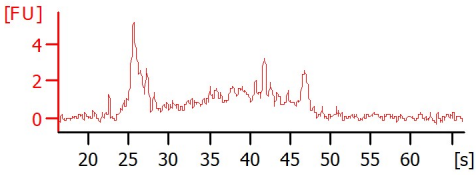
Assay Information:

Assay Origin Path: C:\Program Files (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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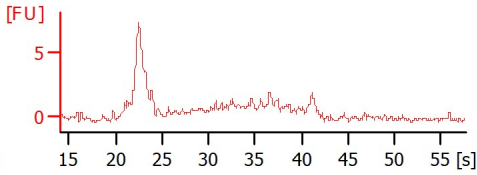
Chip Information:

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

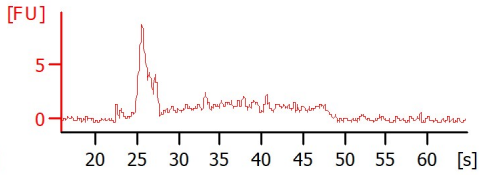
26
 NovaSeq201
 RIN: 3.80



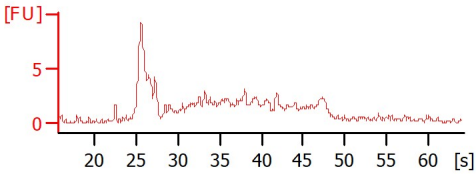
27
 NovaSeq201
 RIN: 5.20



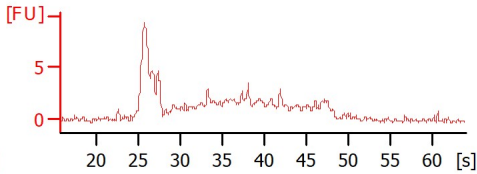
31
 NovaSeq201
 RIN: 2.60



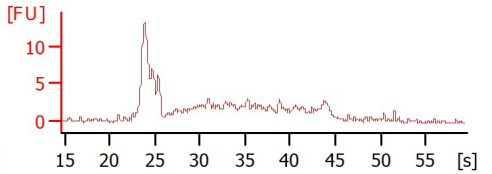
32
 NovaSeq201
 RIN: 2.80



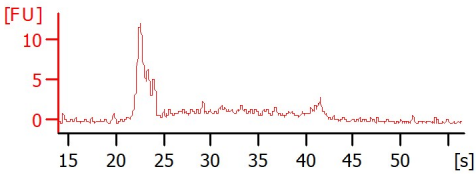
33
 NovaSeq201
 RIN: 2.60



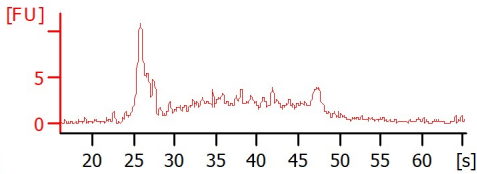
34
 NovaSeq201
 RIN: 2.60



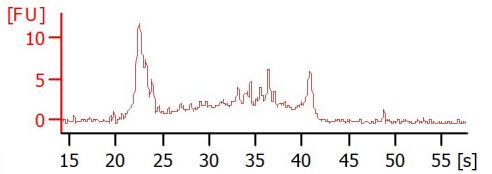
35
 NovaSeq201
 RIN: 3.30



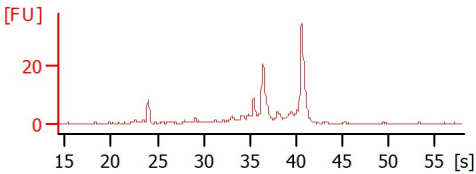
36
 NovaSeq201
 RIN: 2.90



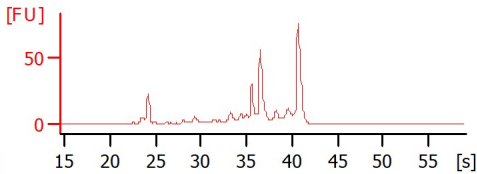
37
 NovaSeq201
 RIN: 5.10



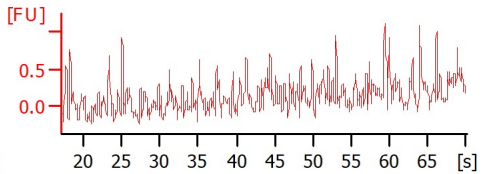
v0
 RIN N/A



LL
 RIN N/A



Sample 12
 RIN N/A



Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
26	NovaSeq201	✓	RIN: 3.80	
27	NovaSeq201	✓	RIN: 5.20	
31	NovaSeq201	✓	RIN: 2.60	
32	NovaSeq201	✓	RIN: 2.80	
33	NovaSeq201	✓	RIN: 2.60	
34	NovaSeq201	✓	RIN: 2.60	
35	NovaSeq201	✓	RIN: 3.30	
36	NovaSeq201	✓	RIN: 2.90	
37	NovaSeq201	✓	RIN: 5.10	
V0		✓	RIN N/A	
LL		✓	RIN N/A	
Sample 12		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 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/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

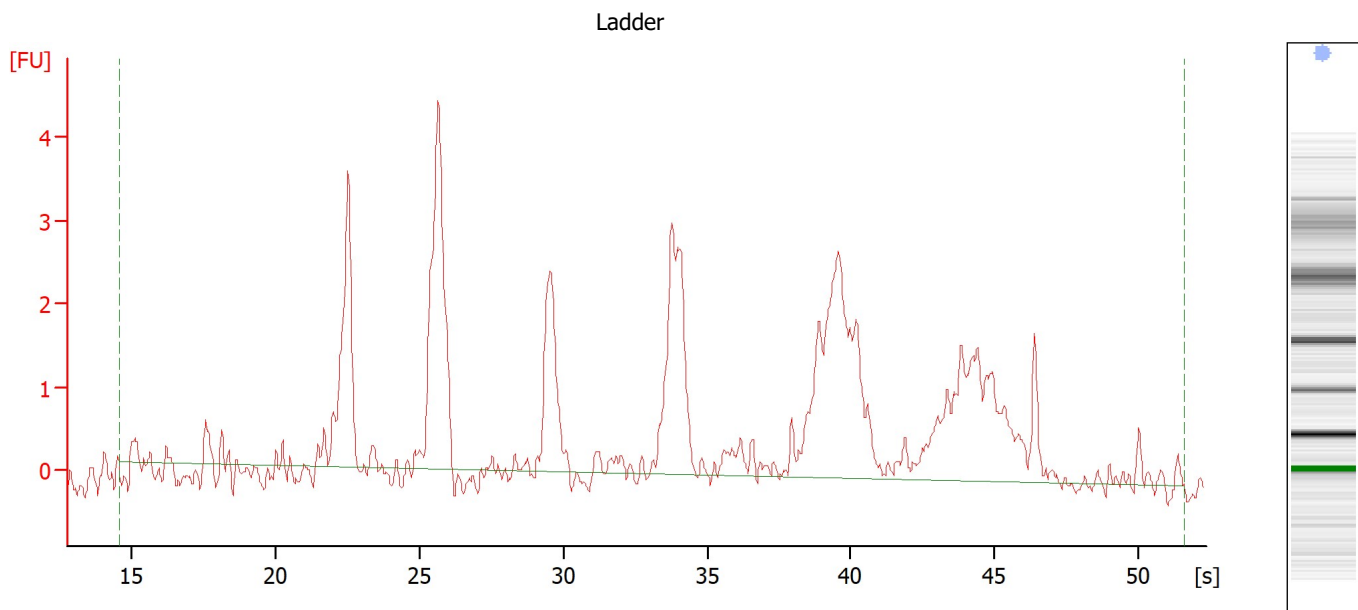
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
Modified: 3/16/2020 11:27:31 AM

Electropherogram Summary



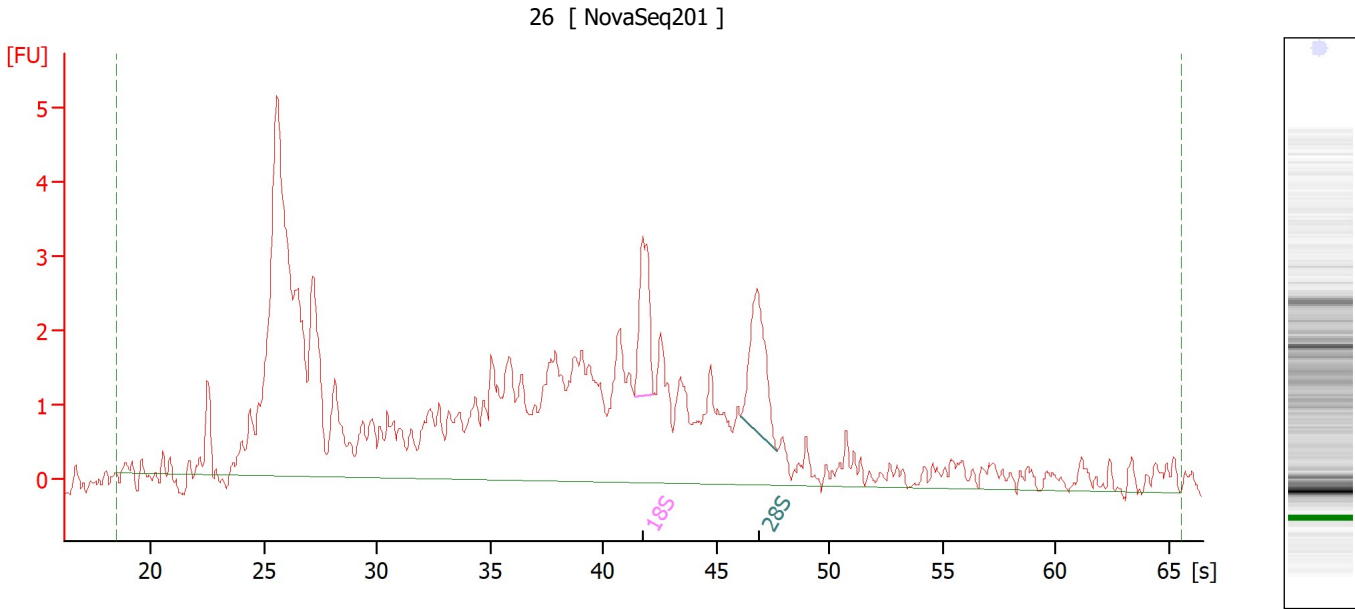
Overall Results for Ladder

RNA Area:	43.9	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 26

RNA Area:	95.7	RNA Integrity Number (RIN):	3.8 (B.02.10)
RNA Concentration:	327 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 3.80

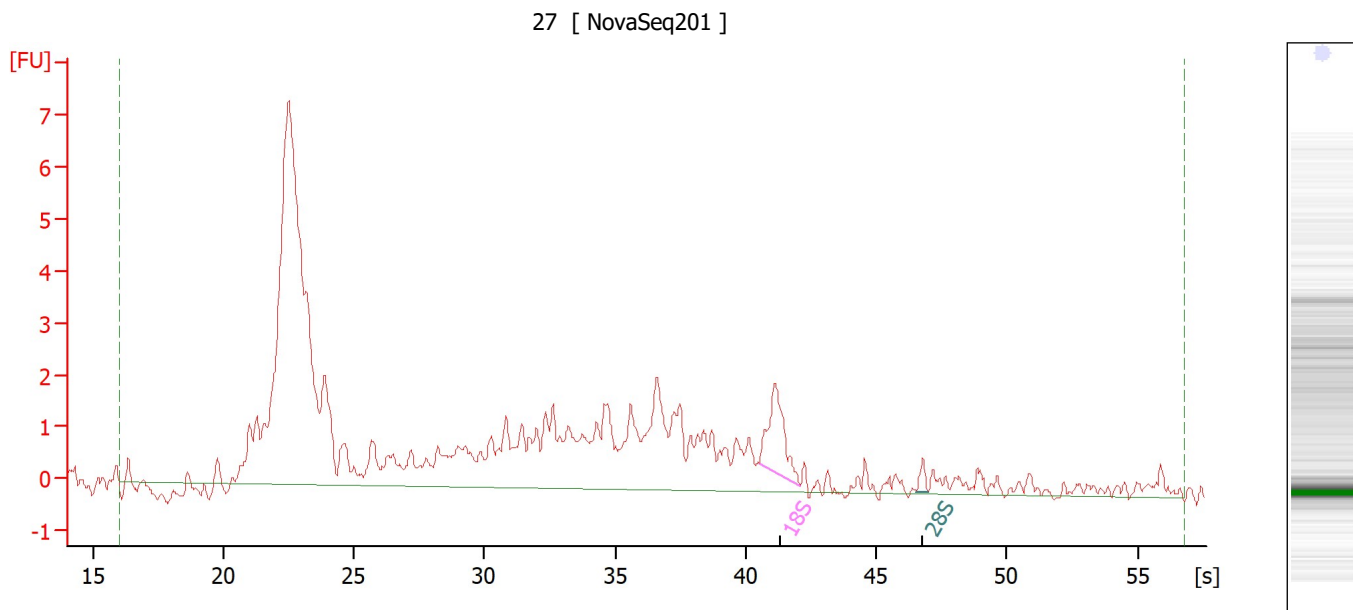
Fragment table for sample 1 : 26

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	8,025	10,883	2.5	2.6
28S	23,742	29,299	3.2	3.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 27

RNA Area:	57.1	RNA Integrity Number (RIN):	5.2 (B.02.10)
RNA Concentration:	195 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 5.20

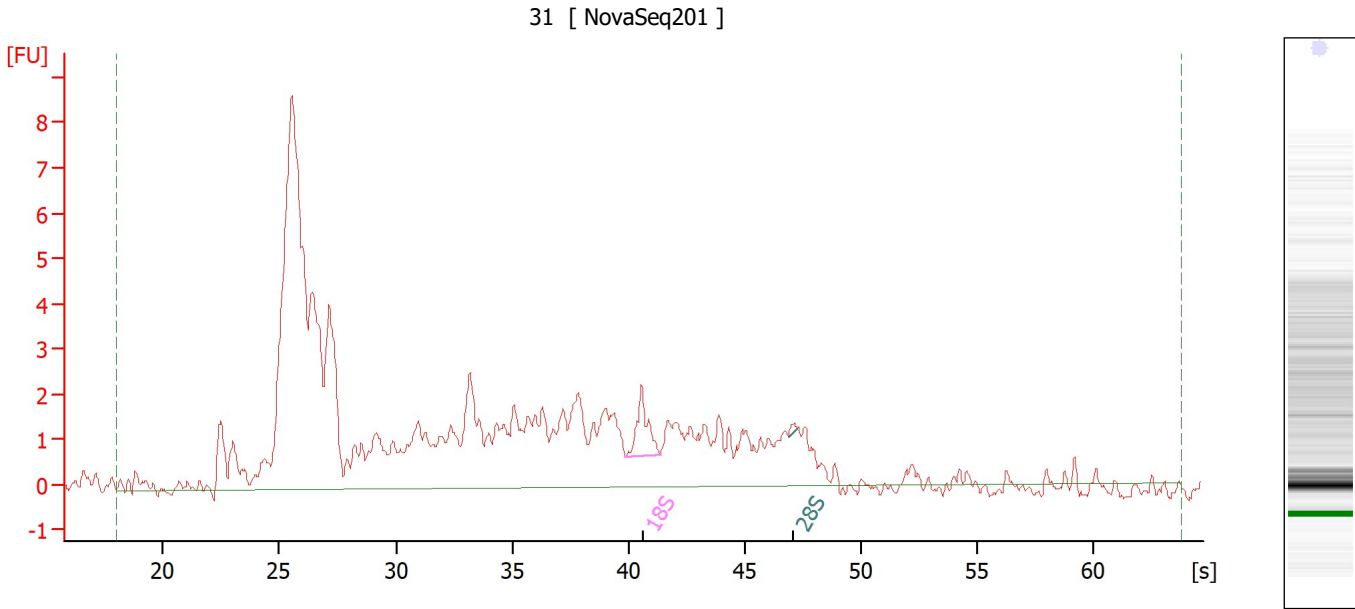
Fragment table for sample 2 : 27

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,255	10,482	2.9	5.1
28S	25,340	26,853	0.3	0.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 31

RNA Area:	123.5	RNA Integrity Number (RIN):	2.6 (B.02.10)
RNA Concentration:	422 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

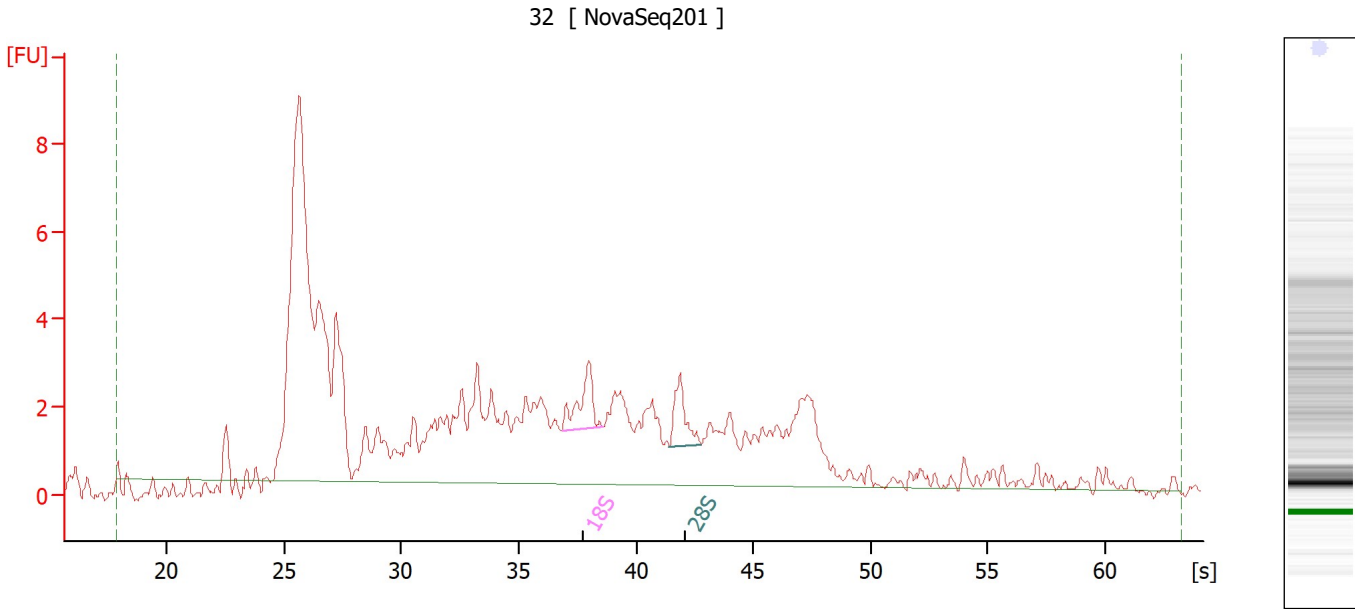
Fragment table for sample 3 : 31

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,098	8,197	2.0	1.6
28S	26,585	27,821	0.1	0.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 32

RNA Area:	128.2	RNA Integrity Number (RIN):	2.8 (B.02.10)
RNA Concentration:	438 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 2.80

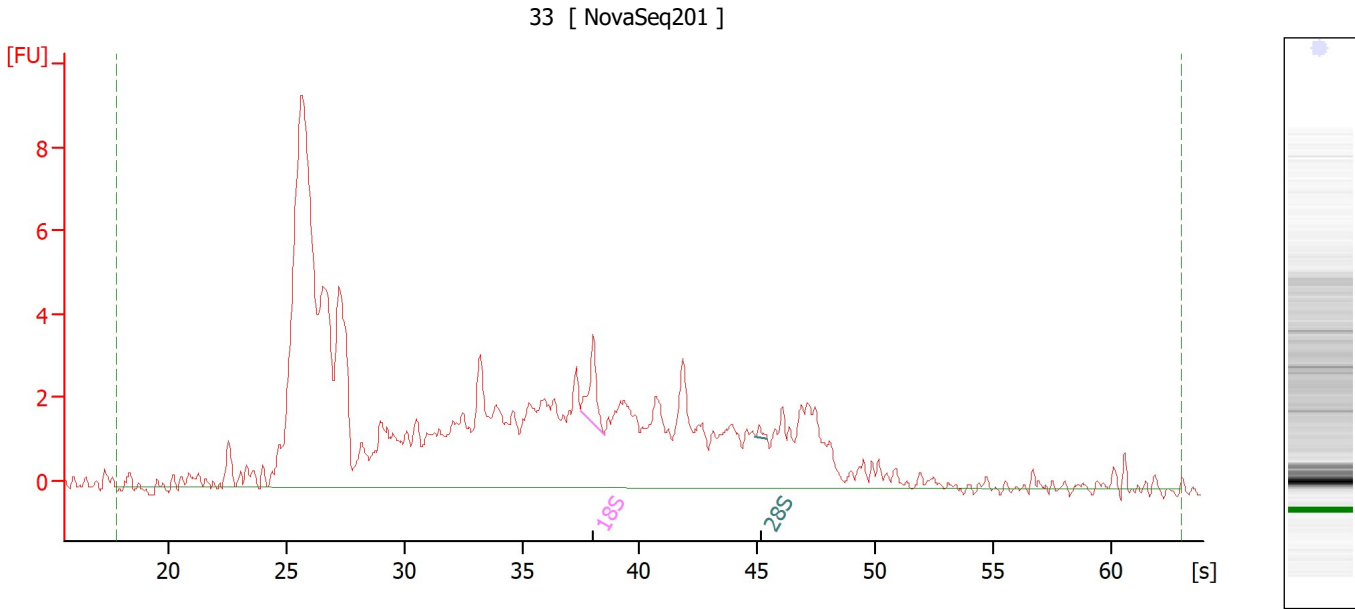
Fragment table for sample 4 : 32

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,530	1,833	2.5	1.9
28S	8,295	12,893	2.1	1.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 33

RNA Area:	149.3	RNA Integrity Number (RIN):	2.6 (B.02.10)
RNA Concentration:	510 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 2.60

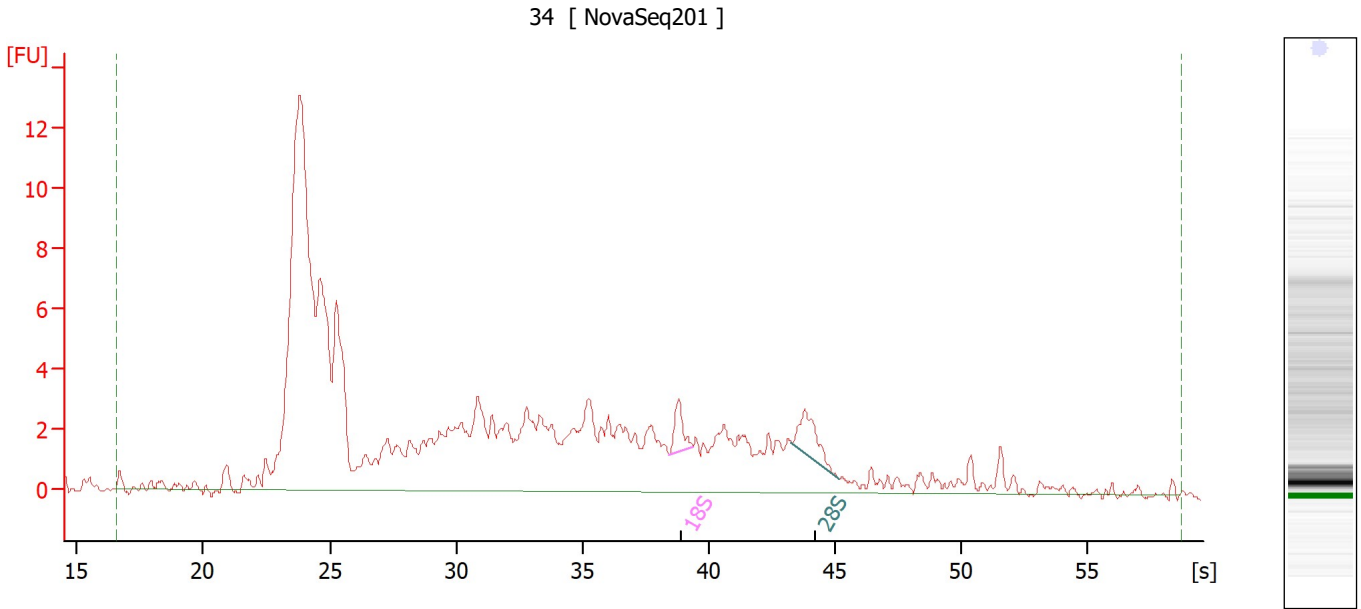
Fragment table for sample 5 : 33

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	1,814	2.0	1.3
28S	19,944	21,623	0.2	0.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 34

RNA Area:	186.4	RNA Integrity Number (RIN):	2.6 (B.02.10)
RNA Concentration:	637 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 2.60

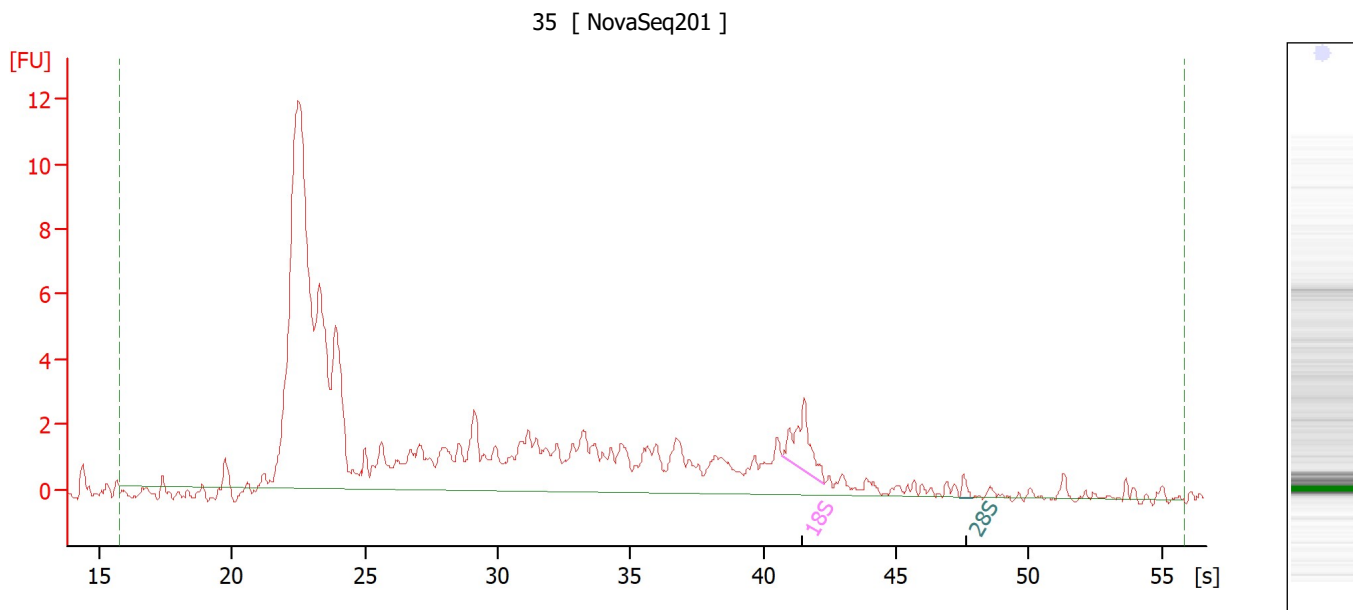
Fragment table for sample 6 : 34

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,810	1,972	1.7	0.9
28S	14,560	20,818	2.7	1.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 35

RNA Area:	90.9	RNA Integrity Number (RIN):	3.3 (B.02.10)
RNA Concentration:	311 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 3.30

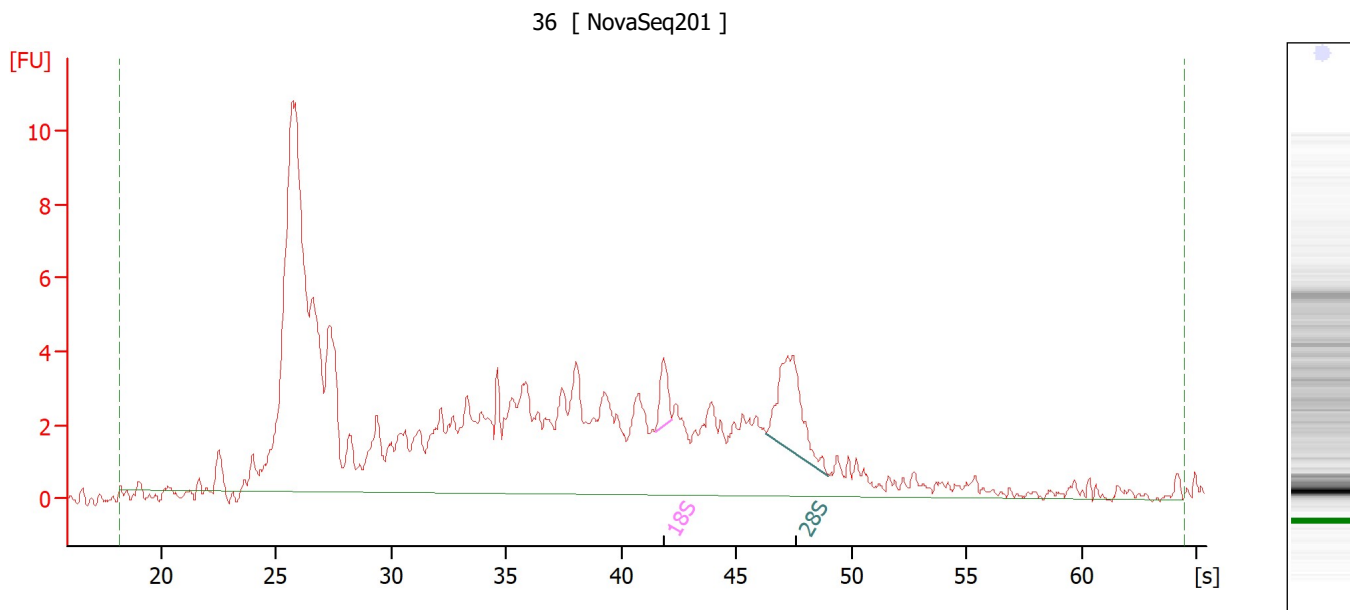
Fragment table for sample 7 : 35

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,903	11,317	3.2	3.6
28S	28,235	29,859	0.4	0.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 36

RNA Area:	181.9	RNA Integrity Number (RIN):	2.9 (B.02.10)
RNA Concentration:	621 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	4.1	Result Flagging Label:	RIN: 2.90

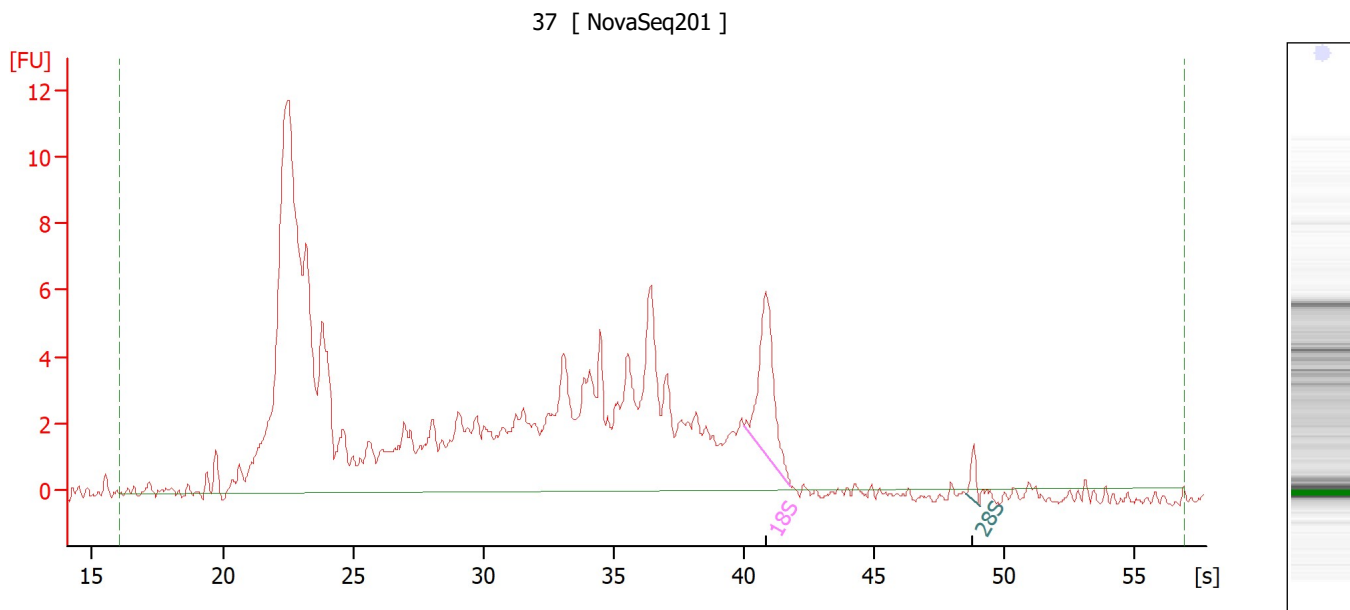
Fragment table for sample 8 : 36

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	8,384	10,726	1.6	0.9
28S	24,621	33,364	6.5	3.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 37

RNA Area:	127.5	RNA Integrity Number (RIN):	5.1 (B.02.10)
RNA Concentration:	436 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 5.10

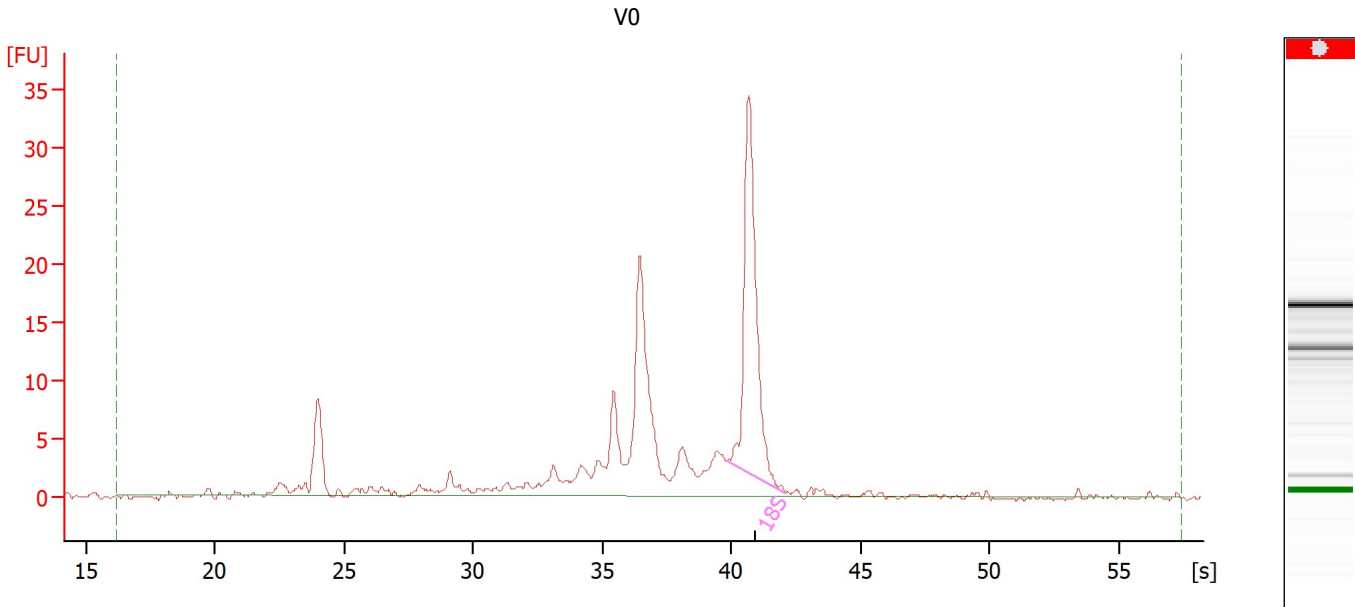
Fragment table for sample 9 : 37

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,573	9,499	7.6	5.9
28S	31,964	33,756	0.7	0.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : V0

RNA Area:	161.9	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	553 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

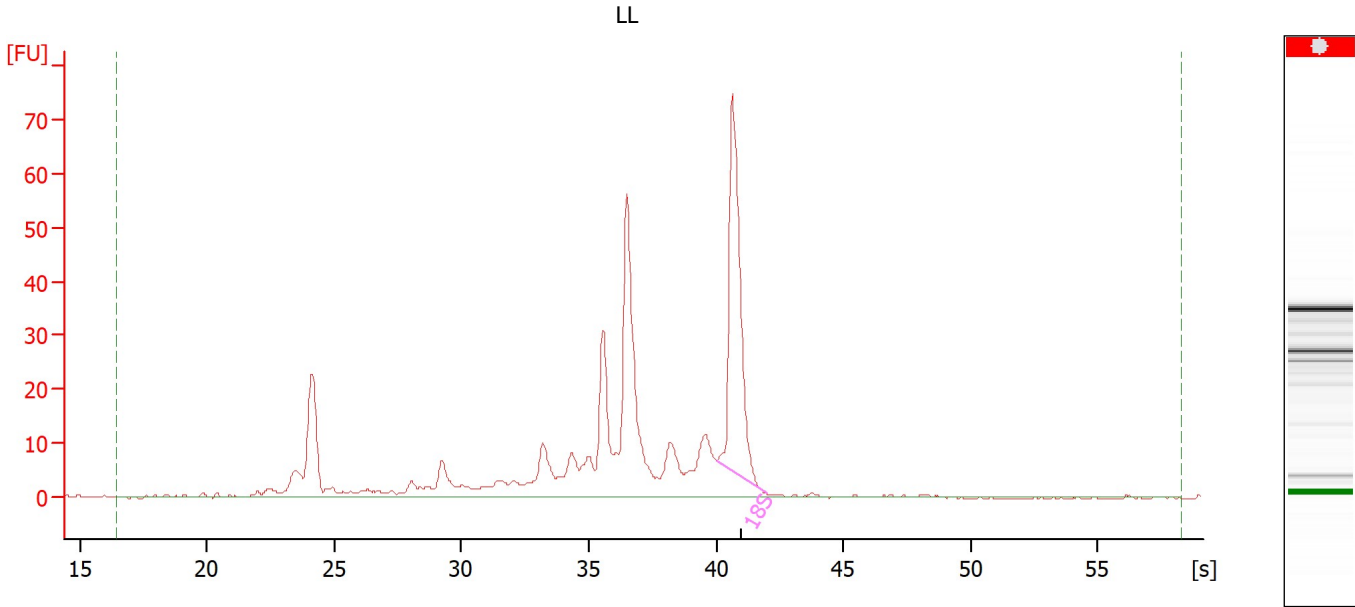
Fragment table for sample 10 : V0

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,863	10,513	42.0	26.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : LL

RNA Area:	406.5	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	1,389 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

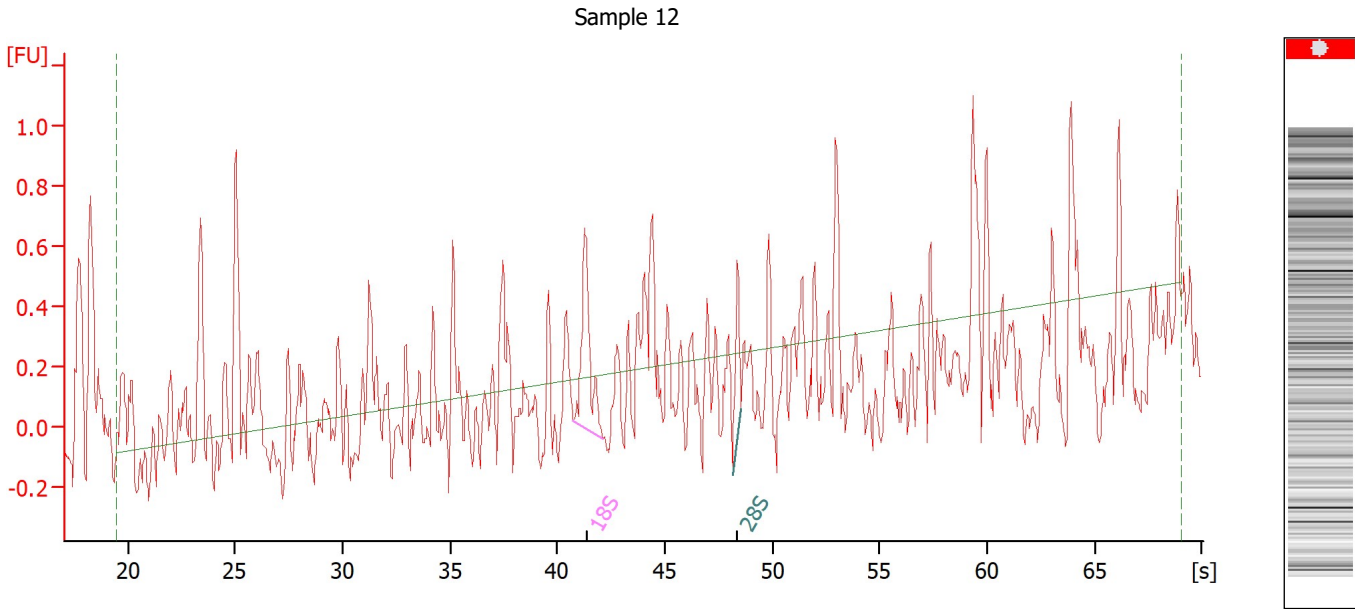
Fragment table for sample 11 : LL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,731	10,084	84.0	20.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
 Modified: 3/16/2020 11:27:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Sample 12

RNA Area:	8.7	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	30 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN N/A

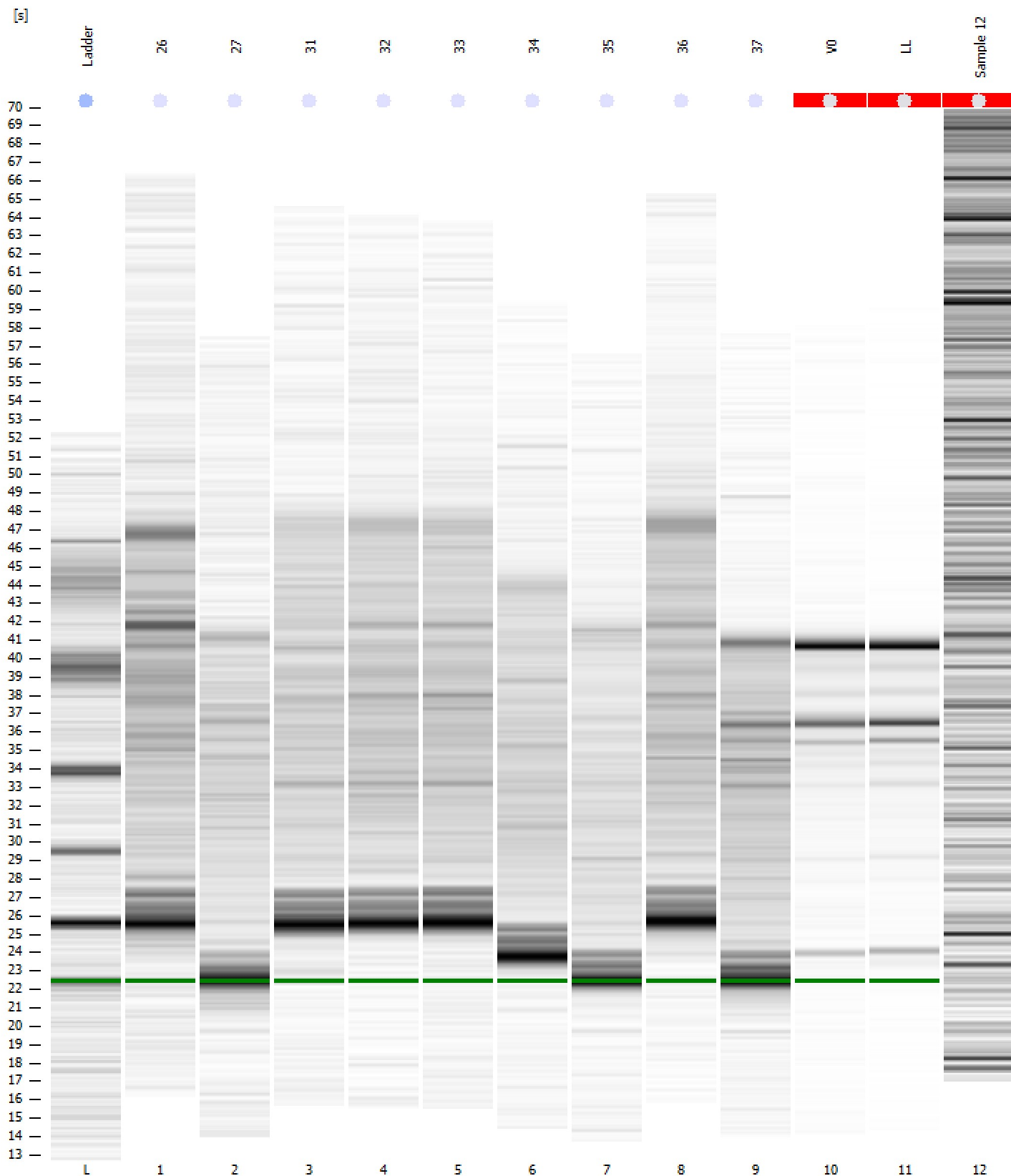
Fragment table for sample 12 : Sample 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	6,036	10,551	0.7	8.1
28S	30,784	32,122	0.3	2.9

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad

Created: 3/16/2020 11:04:26 AM
Modified: 3/16/2020 11:27:31 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 3/16/2020 11:04:26 AM
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_002.xad Modified: 3/16/2020 11:27:31 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		3/16/2020 11:27:29 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-03-16\Bioanalyze r1_Eukaryote Total RNA Nano_2020-03-16_002.xad)		Instrument	Run		3/16/2020 11:04:32 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		3/16/2020 11:04:32 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		3/16/2020 11:04:32 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		3/16/2020 11:04:32 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		3/16/2020 11:04:32 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		3/16/2020 11:04:32 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		3/16/2020 11:04:32 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB