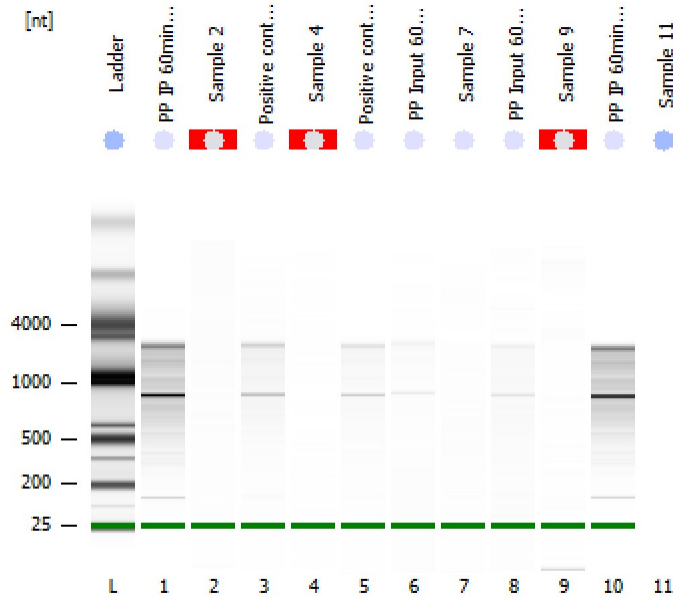


Assay Class: Eukaryote Total RNA Pico
Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
Modified: 2/21/2020 1:03:15 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 Pico Series II.xsy

Assay Class: Eukaryote Total RNA Pico

Version: 2.6

Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

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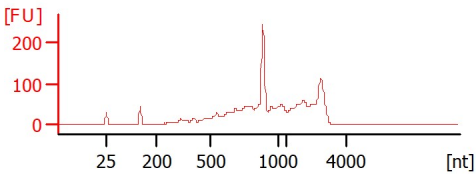
Chip Information:

Chip Lot #:

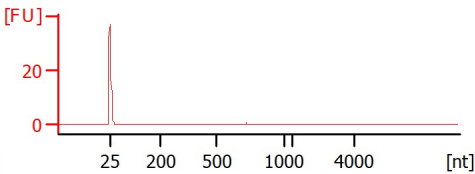
Reagent Kit Lot #:

Chip Comments:

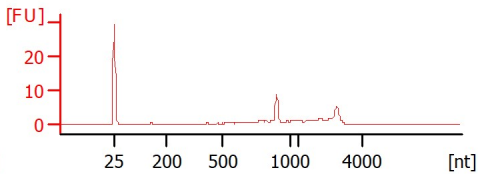
PP IP 60min pup 2.21.20 Duplicate 1
RIN: 6.30



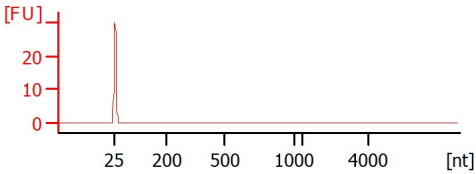
Sample 2
RIN N/A



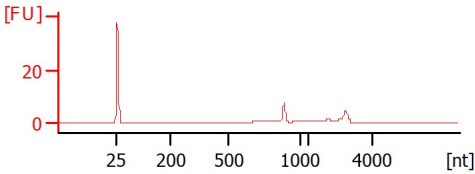
Positive control 3.6.19 Duplicate 1
RIN: 7.70



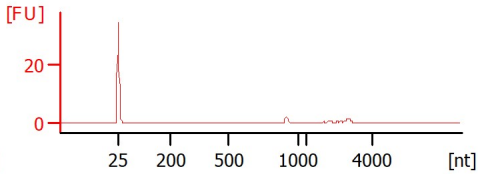
Sample 4
RIN N/A



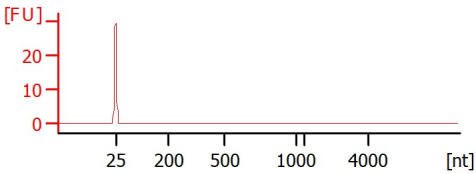
Positive control 3.6.19 Duplicate 2
RIN: 7.90



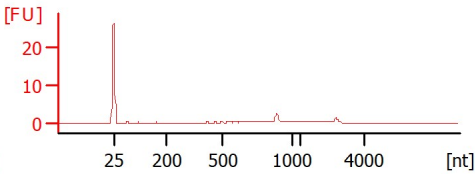
PP Input 60min pup 2.21.20 Duplicate 1
RIN: 8.10



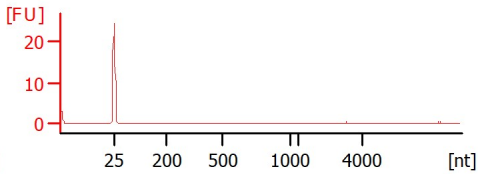
Sample 7
RIN: 1



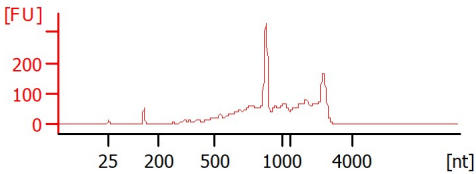
PP Input 60min pup 2.21.20 Duplicate 2
RIN: 6.60



Sample 9
RIN N/A



PP IP 60min pup 2.21.20 Duplicate 2
RIN: 6.40



Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
 Modified: 2/21/2020 1:03:15 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
PP IP 60min pup 2.21.20 Duplicate 1		✓	RIN: 6.30	
Sample 2		✓	RIN N/A	
Positive control 3.6.19 Duplicate 1		✓	RIN: 7.70	
Sample 4		✓	RIN N/A	
Positive control 3.6.19 Duplicate 2		✓	RIN: 7.90	
PP Input 60min pup 2.21.20 Duplicate 1		✓	RIN: 8.10	
Sample 7		✓	RIN:1	
PP Input 60min pup 2.21.20 Duplicate 2		✓	RIN: 6.60	
Sample 9		✓	RIN N/A	
PP IP 60min pup 2.21.20 Duplicate 2		✓	RIN: 6.40	
Sample 11				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
 Modified: 2/21/2020 1:03:15 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
 Minimum Visible Range [s] : 17
 Maximum Visible Range [s] : 70
 Start Analysis Time Range [s] : 18
 End Analysis Time Range [s] : 69
 Ladder Concentration [pg/μl] : 1000
 Lower Marker Concentration [pg/μl] : 0
 Upper Marker Concentration [pg/μl] : 0
 Used Lower Marker for Quantitation
 Standard Curve Fit is Logarithmic
 Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 18
 Integration End Time [s] : 69
 Slope Threshold : 0.6
 Height Threshold [FU] : 0.5
 Area Threshold : 0.2
 Width Threshold [s] : 0.3
 Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
 Polynomial Order : 4

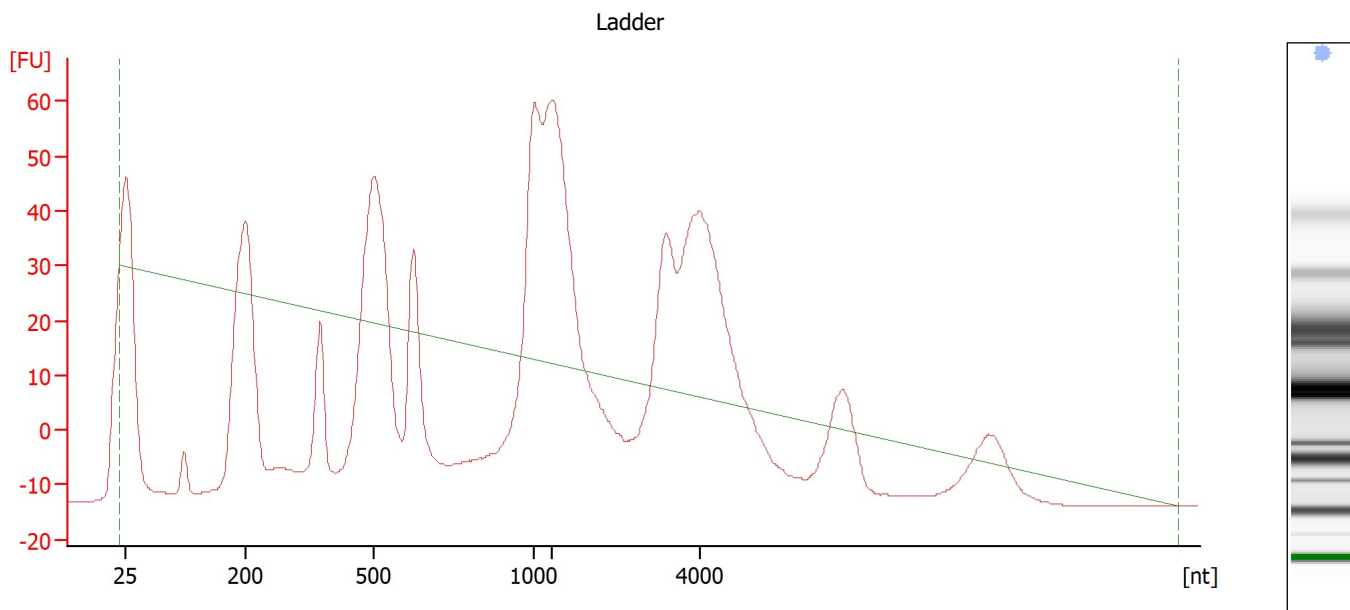
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
Modified: 2/21/2020 1:03:15 PM

Electropherogram Summary



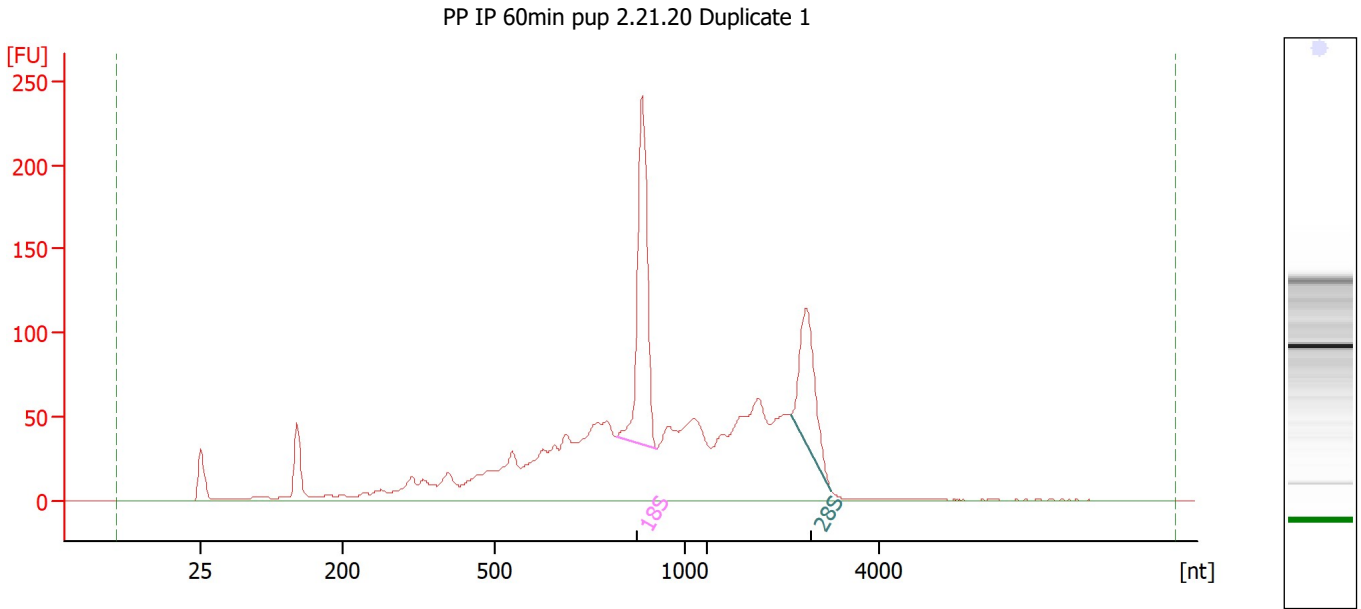
Overall Results for Ladder

RNA Area:	539.6	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
 Modified: 2/21/2020 1:03:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : PP IP 60min pup 2.21.20 Duplicate 1

RNA Area:	1,947.1	RNA Integrity Number (RIN):	6.3 (B.02.10)
RNA Concentration:	3,609 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 6.30

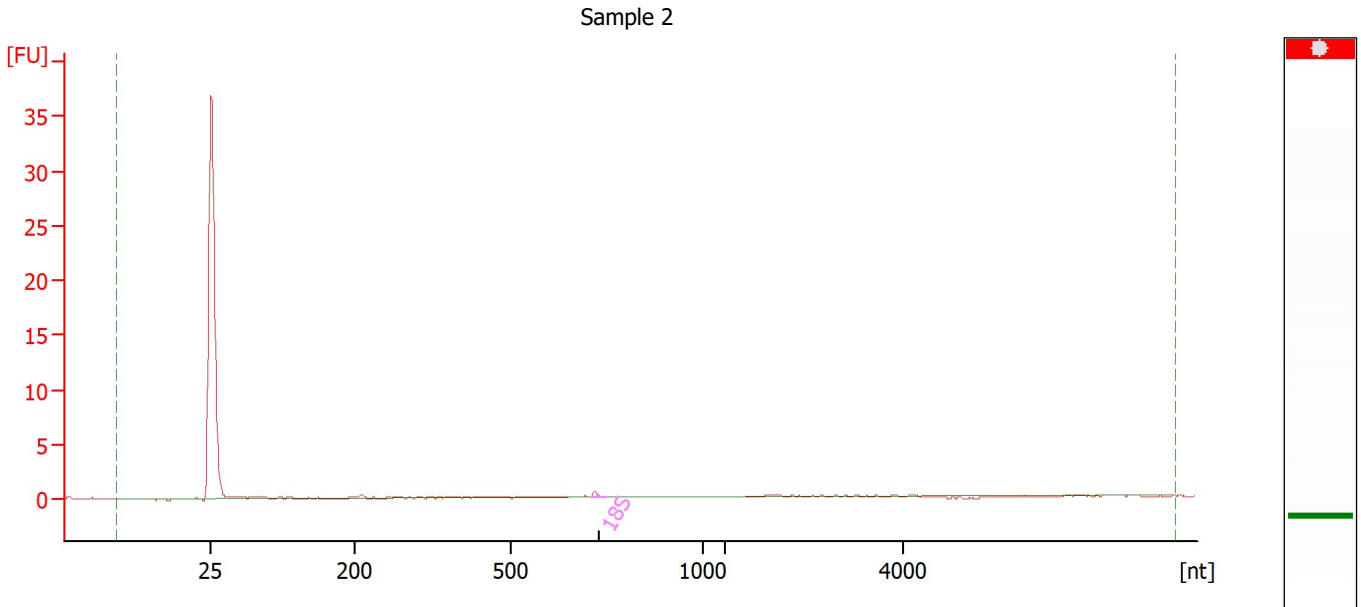
Fragment table for sample 1 : PP IP 60min pup 2.21.20 Duplicate 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	818	925	244.1	12.5
28S	2,979	3,447	126.0	6.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
 Modified: 2/21/2020 1:03:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	5.3	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	10 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Fragment table for sample 2 : Sample 2

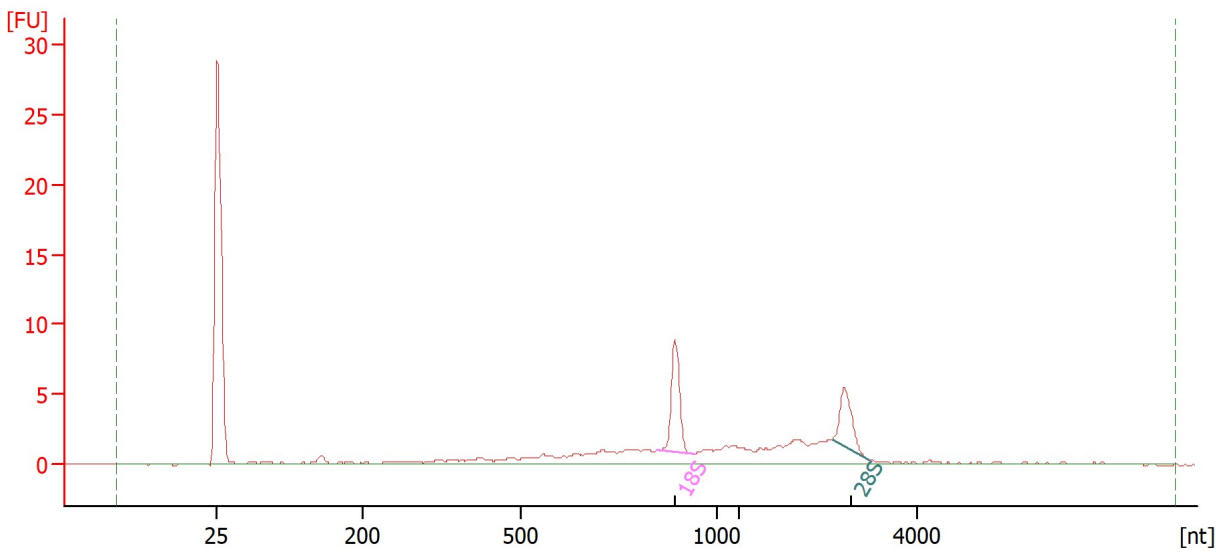
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	707	748	0.3	5.7

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
 Modified: 2/21/2020 1:03:15 PM

Electropherogram Summary Continued ...

Positive control 3.6.19 Duplicate 1



Overall Results for sample 3 : Positive control 3.6.19 Duplicate 1

RNA Area:	58.7	RNA Integrity Number (RIN):	7.7 (B.02.10)
RNA Concentration:	109 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 7.70

Fragment table for sample 3 : Positive control 3.6.19 Duplicate 1

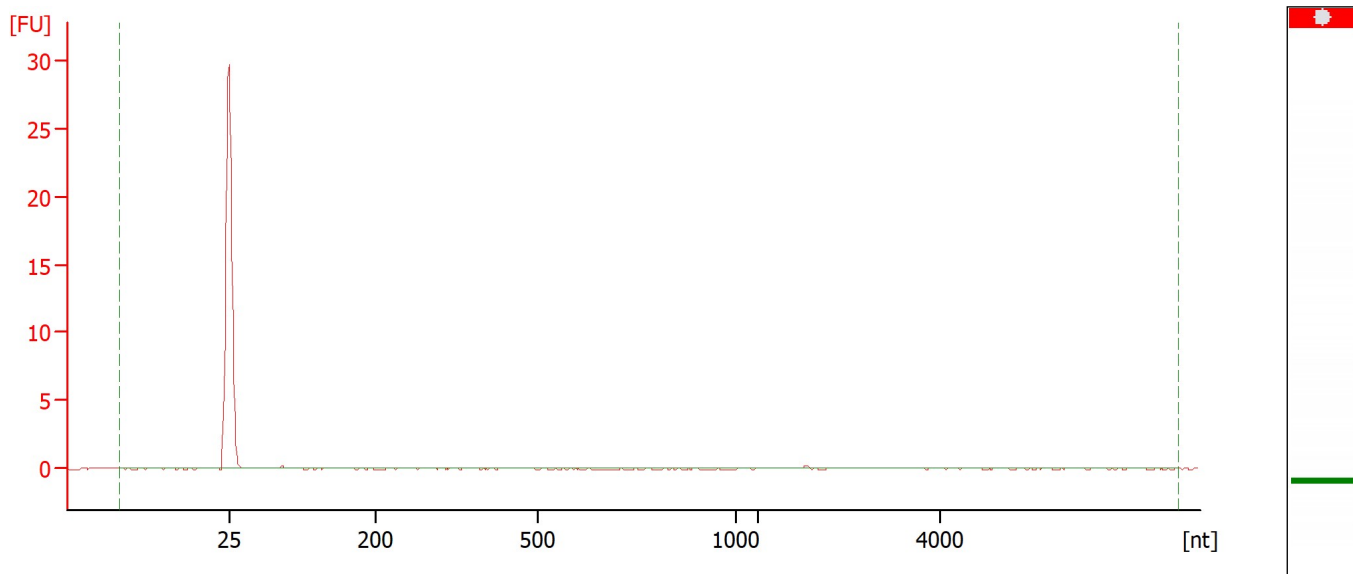
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	850	943	7.7	13.1
28S	3,055	3,449	5.0	8.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
 Modified: 2/21/2020 1:03:15 PM

Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 4 : Sample 4

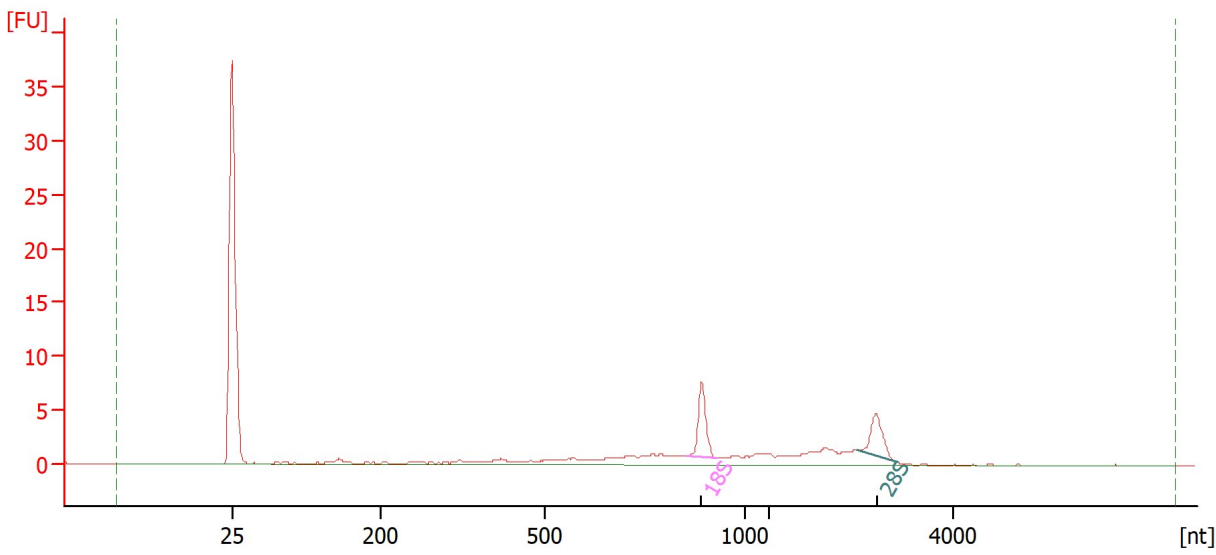
RNA Area:	0.9	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	2 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
 Modified: 2/21/2020 1:03:15 PM

Electropherogram Summary Continued ...

Positive control 3.6.19 Duplicate 2



Overall Results for sample 5 : Positive control 3.6.19 Duplicate 2

RNA Area:	45.6	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	84 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 7.90

Fragment table for sample 5 : Positive control 3.6.19 Duplicate 2

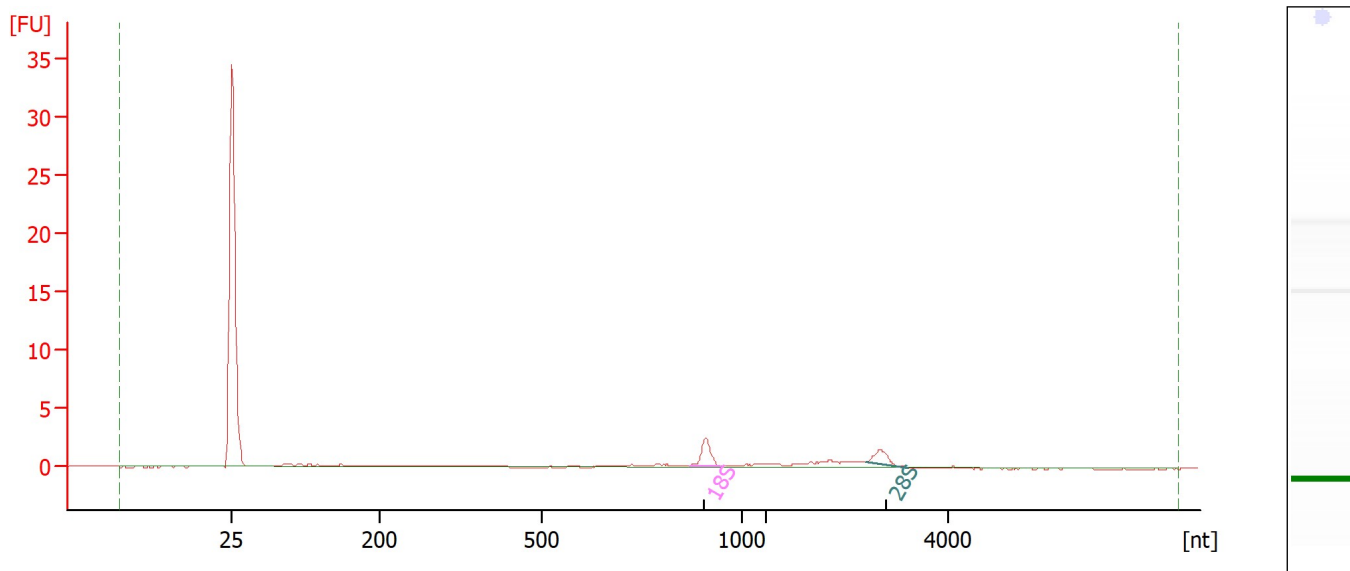
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	855	927	6.3	13.8
28S	2,966	3,395	4.7	10.2

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
 Modified: 2/21/2020 1:03:15 PM

Electropherogram Summary Continued ...

PP Input 60min pup 2.21.20 Duplicate 1



Overall Results for sample 6 : PP Input 60min pup 2.21.20 Duplicate 1

RNA Area:	19.2	RNA Integrity Number (RIN):	8.1 (B.02.10)
RNA Concentration:	36 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 8.10

Fragment table for sample 6 : PP Input 60min pup 2.21.20 Duplicate 1

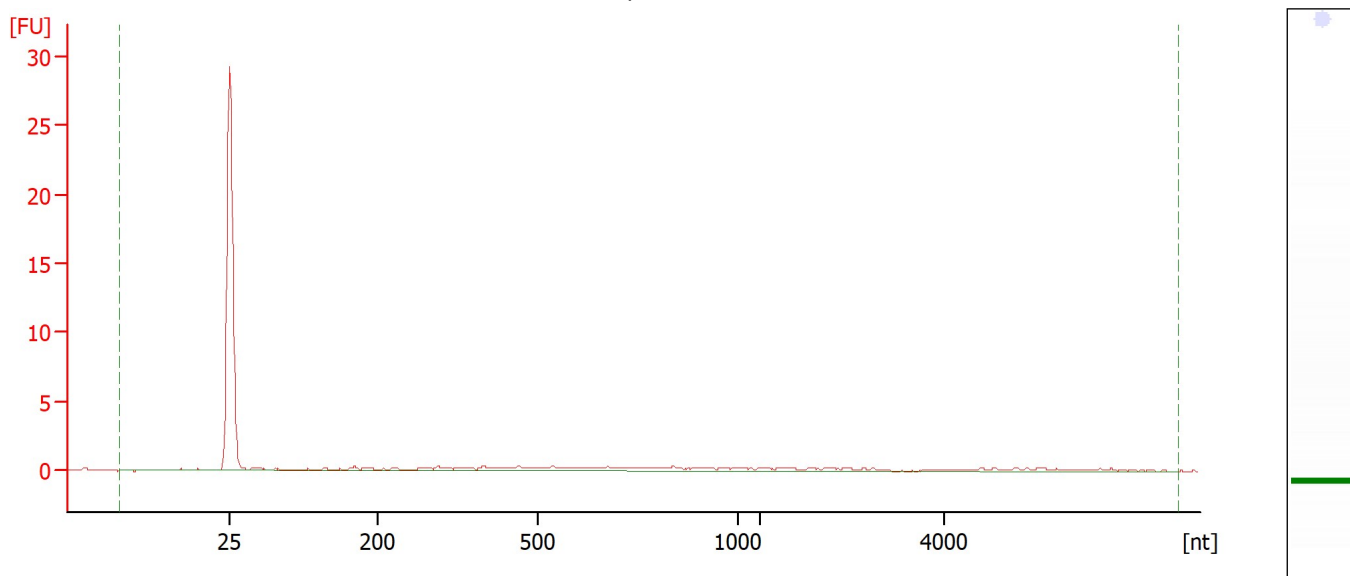
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	870	942	2.6	13.4
28S	3,100	3,556	1.8	9.3

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
 Modified: 2/21/2020 1:03:15 PM

Electropherogram Summary Continued ...

Sample 7



Overall Results for sample 7 : Sample 7

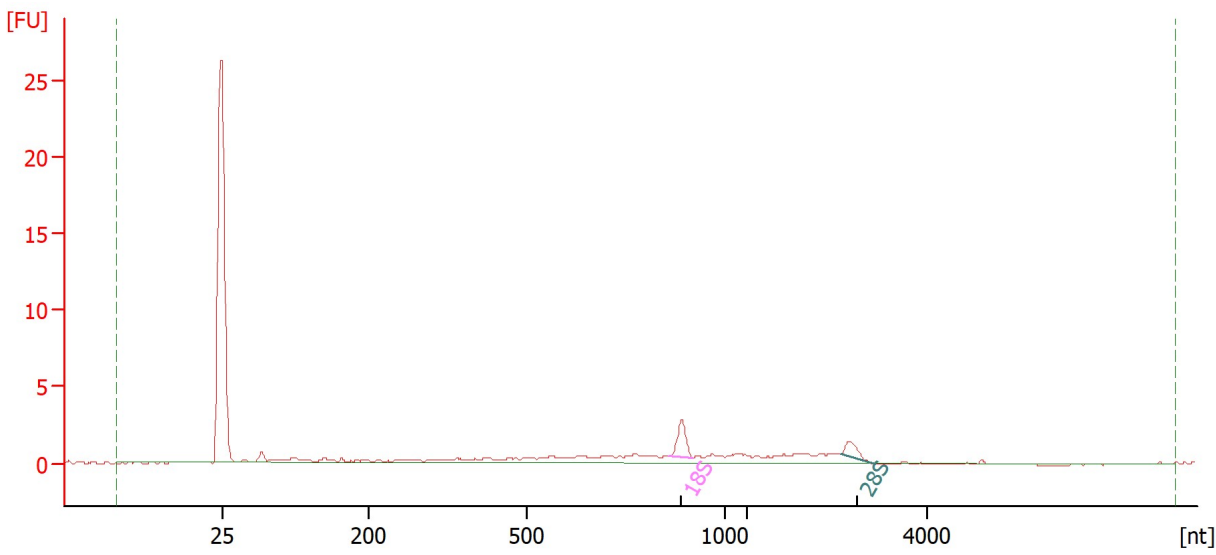
RNA Area:	18.6	RNA Integrity Number (RIN):	1 (B.02.10)
RNA Concentration:	34 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
 Modified: 2/21/2020 1:03:15 PM

Electropherogram Summary Continued ...

PP Input 60min pup 2.21.20 Duplicate 2



Overall Results for sample 8 : PP Input 60min pup 2.21.20 Duplicate 2

RNA Area:	28.6	RNA Integrity Number (RIN):	6.6 (B.02.10)
RNA Concentration:	53 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 6.60

Fragment table for sample 8 : PP Input 60min pup 2.21.20 Duplicate 2

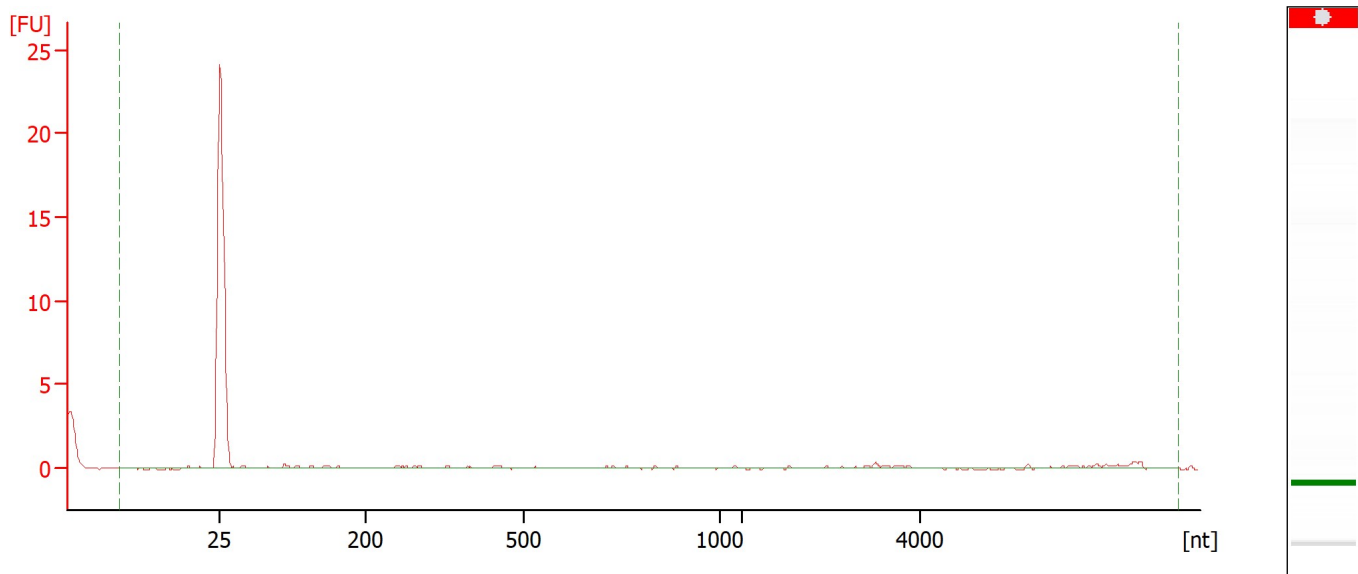
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	860	919	2.4	8.3
28S	3,034	3,413	1.3	4.5

Assay Class: Eukaryote Total RNA Pico
Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
Modified: 2/21/2020 1:03:15 PM

Electropherogram Summary Continued ...

Sample 9



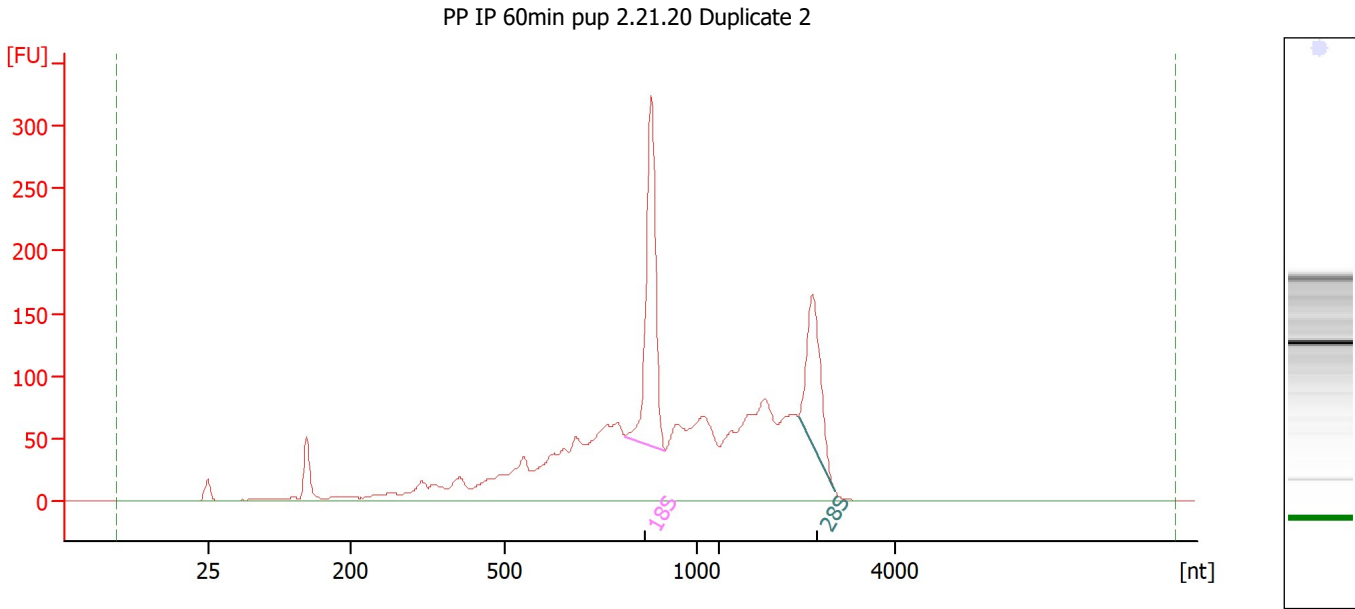
Overall Results for sample 9 : Sample 9

RNA Area:	4.8	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	9 pg/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
 Modified: 2/21/2020 1:03:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : PP IP 60min pup 2.21.20 Duplicate 2

RNA Area:	2,512.2	RNA Integrity Number (RIN):	6.4 (B.02.10)
RNA Concentration:	4,656 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 6.40

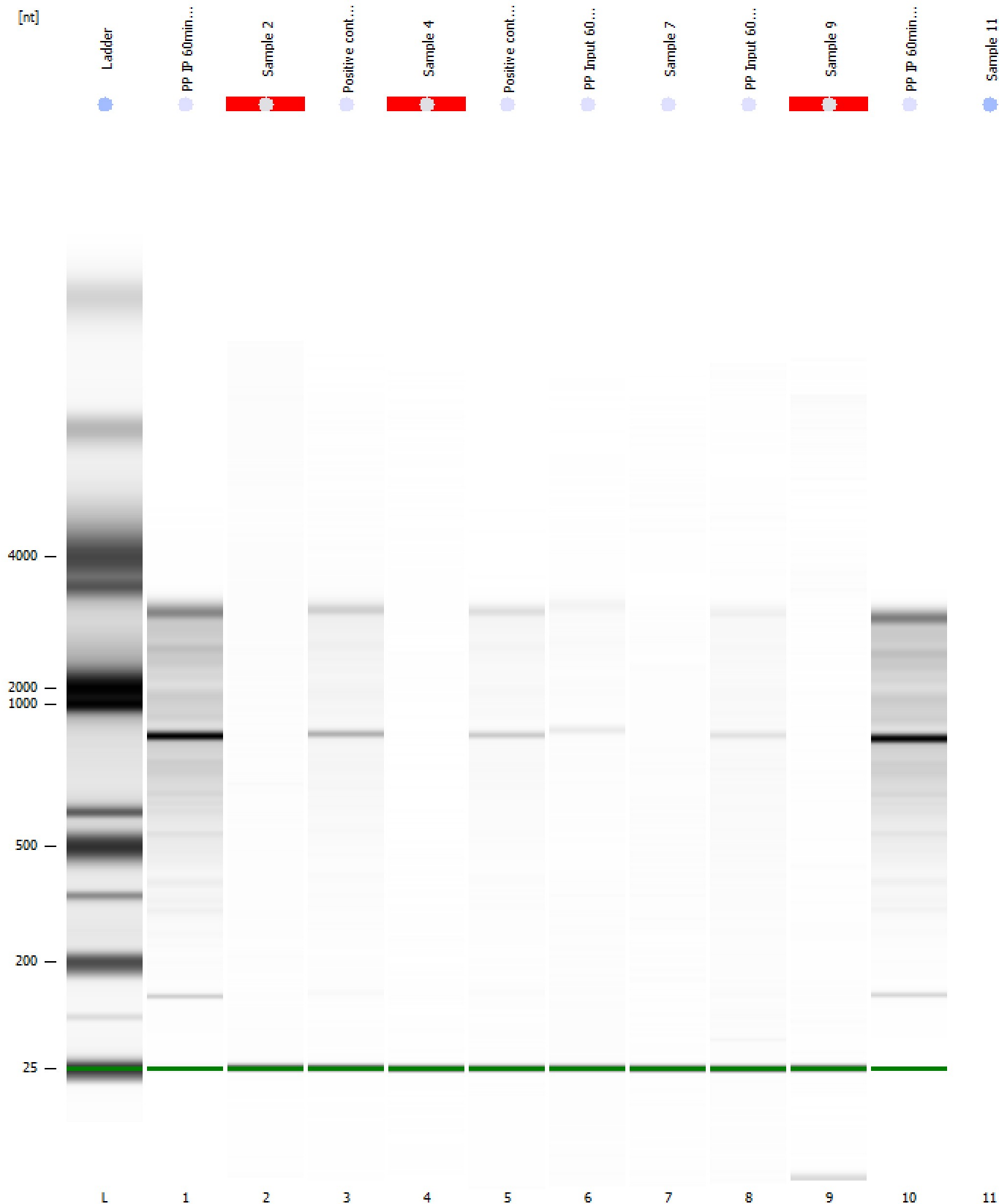
Fragment table for sample 10 : PP IP 60min pup 2.21.20 Duplicate 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	813	916	328.1	13.1
28S	2,905	3,319	173.2	6.9

Assay Class: Eukaryote Total RNA Pico
Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
Modified: 2/21/2020 1:03:15 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
Modified: 2/21/2020 1:03:15 PM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Pico_2020-02-21_001.xad

Created: 2/21/2020 12:41:39 PM
 Modified: 2/21/2020 1:03:15 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		2/21/2020 1:03:11 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-02-21\Bioanalyze r1_Eukaryote Total RNA Pico_2020-02-21_001.xad)		Instrument	Run		2/21/2020 12:41:45 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		2/21/2020 12:41:45 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		2/21/2020 12:41:45 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		2/21/2020 12:41:45 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		2/21/2020 12:41:45 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		2/21/2020 12:41:45 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		2/21/2020 12:41:45 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB