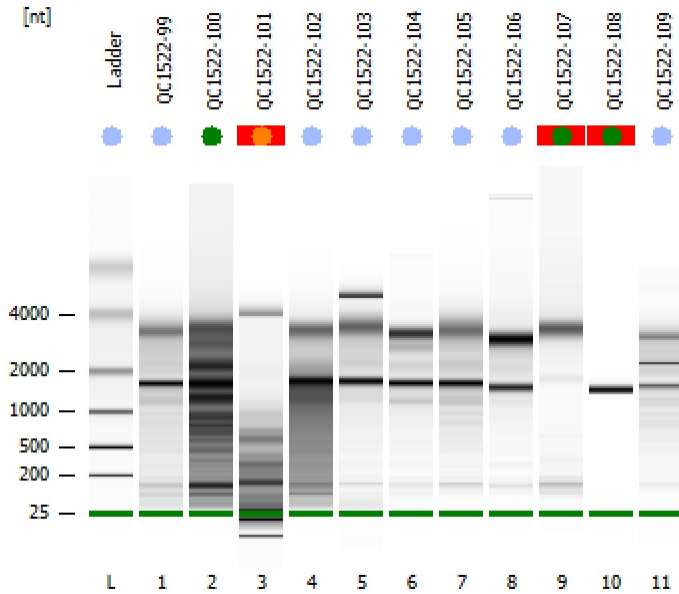


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
Modified: 8/7/2023 9:46:04 AM

Electrophoresis File Run Summary



Instrument Information:

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

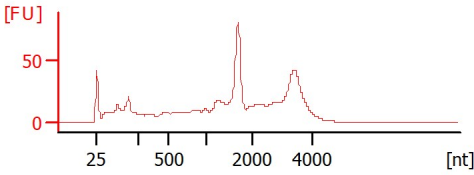
Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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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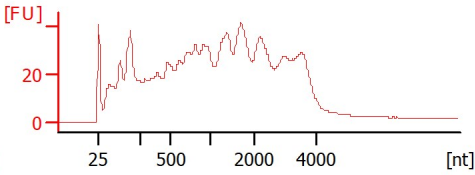
Chip Information:

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

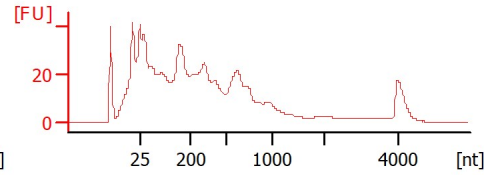
QC1522-99
CANTE_41
RIN: 7



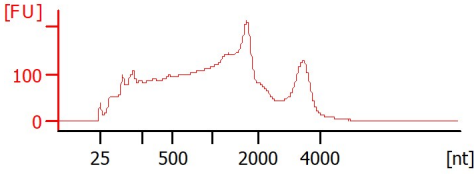
QC1522-100
CANTE_42
RIN: 3.30 ; DV200 > 70%



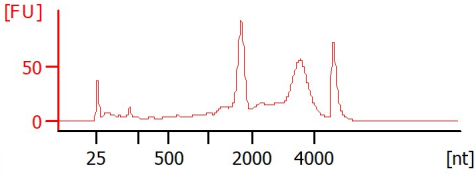
QC1522-101
CANTE_43
RIN: N/A ; DV200 30-50%



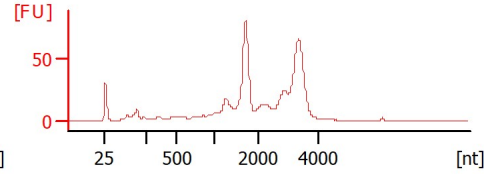
QC1522-102
CANTE_44
RIN: 6.30



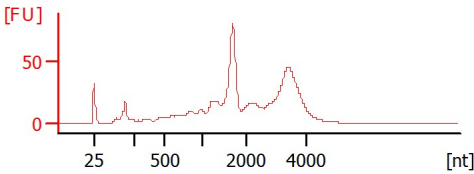
QC1522-103
CANTE_45
RIN: 8.80



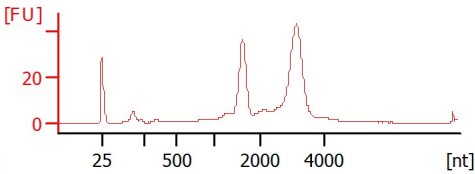
QC1522-104
CANTE_46
RIN: 8.10



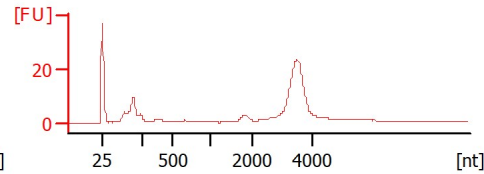
QC1522-105
CANTE_47
RIN: 7.90



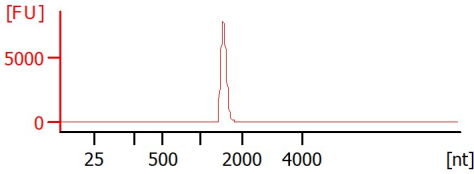
QC1522-106
CANTE_48
RIN: 9.50



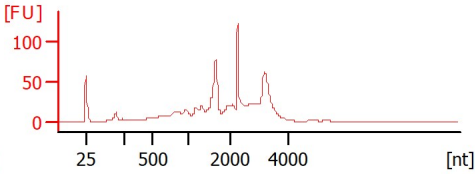
QC1522-107
CANTE_49
RIN N/A ; DV200 > 70%



QC1522-108
CANTE_50
RIN N/A ; DV200 > 70%



QC1522-109
CANTE_51
RIN: 6.60



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
 Modified: 8/7/2023 9:46:04 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
QC1522-99	CANTE_41	✓	RIN:7	Blue
QC1522-100	CANTE_42	✓	RIN: 3.30 ; DV200 > 70%	Green
QC1522-101	CANTE_43	✓	RIN: N/A ; DV200 30-50%	Orange
QC1522-102	CANTE_44	✓	RIN: 6.30	Blue
QC1522-103	CANTE_45	✓	RIN: 8.80	Blue
QC1522-104	CANTE_46	✓	RIN: 8.10	Blue
QC1522-105	CANTE_47	✓	RIN: 7.90	Blue
QC1522-106	CANTE_48	✓	RIN: 9.50	Blue
QC1522-107	CANTE_49	✓	RIN N/A ; DV200 > 70%	Green
QC1522-108	CANTE_50	✓	RIN N/A ; DV200 > 70%	Green
QC1522-109	CANTE_51	✓	RIN: 6.60	Blue
Ladder		✓	All Other Samples	Blue

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
 Modified: 8/7/2023 9:46:04 AM

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

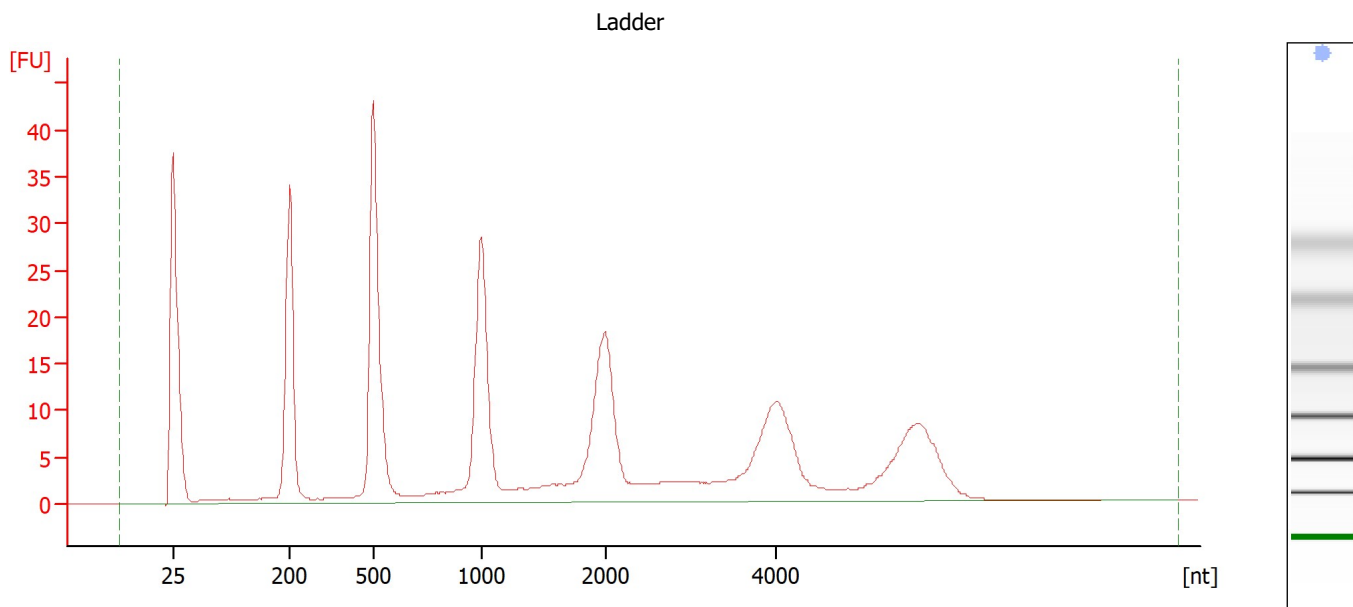
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
Modified: 8/7/2023 9:46:04 AM

Electropherogram Summary



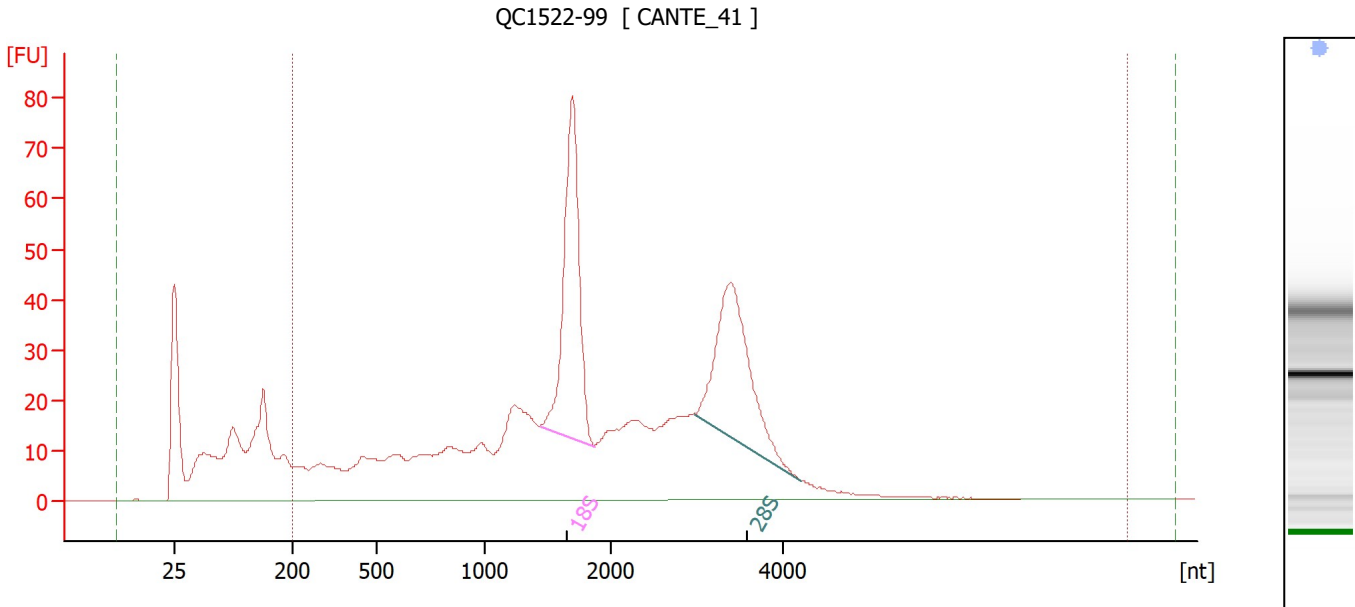
Overall Results for Ladder

RNA Area:	367.2	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
 Modified: 8/7/2023 9:46:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : QC1522-99

RNA Area:	1,141.7	Result Flagging Color:	
RNA Concentration:	3,109 pg/μl	Result Flagging Label:	RIN:7
rRNA Ratio [28s / 18s]:	0.9	Corr. Area 1:	942.4
RNA Integrity Number (RIN):	7 (B.02.10)		

Fragment table for sample 1 : QC1522-99

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,438	1,874	135.6	11.9
28S	2,982	4,221	115.5	10.1

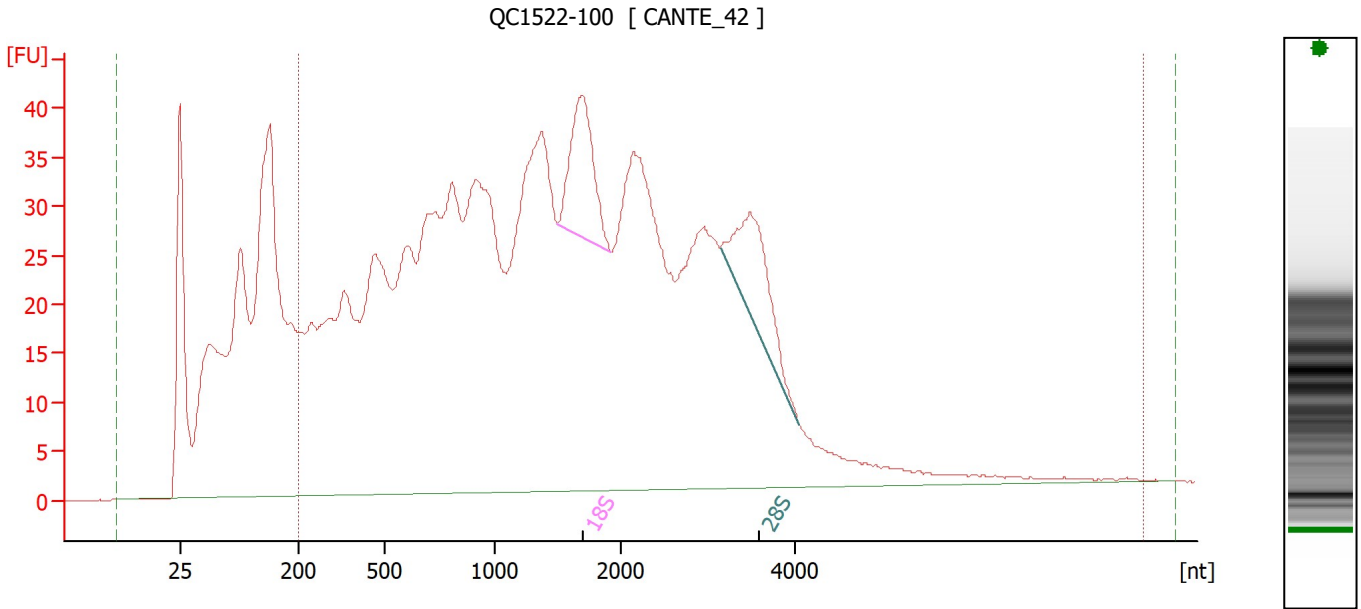
Region table for sample 1 : QC1522-99

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	942.4	82	

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
 Modified: 8/7/2023 9:46:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : QC1522-100

RNA Area:	1,970.3	Result Flagging Color:	
RNA Concentration:	5,366 pg/μl	Result Flagging Label:	RIN: 3.30 ; DV200 > 70%
rRNA Ratio [28s / 18s]:	0.9		
RNA Integrity Number (RIN):	3.3 (B.02.10)	Corr. Area 1:	1,595.8

Fragment table for sample 2 : QC1522-100

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,499	1,930	43.3	2.2
28S	3,148	4,042	39.4	2.0

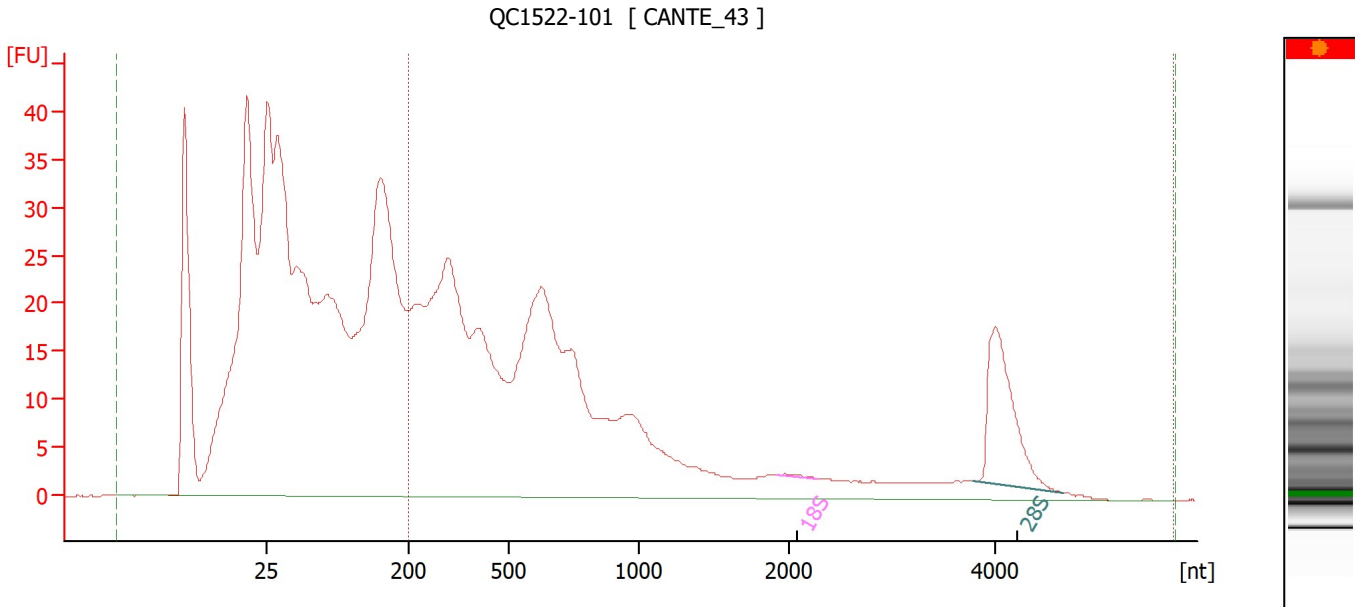
Region table for sample 2 : QC1522-100

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	1,595.8	81	

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
 Modified: 8/7/2023 9:46:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : QC1522-101

RNA Area:	1,204.1	Result Flagging Color:	
RNA Concentration:	3,279 pg/μl	Result Flagging Label:	RIN: N/A ; DV200 30-50%
rRNA Ratio [28s / 18s]:	62.8	Corr. Area 1:	573.0
RNA Integrity Number (RIN):	N/A (B.02.10)		

Fragment table for sample 3 : QC1522-101

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,917	2,284	0.6	0.0
28S	3,796	4,666	36.8	3.1

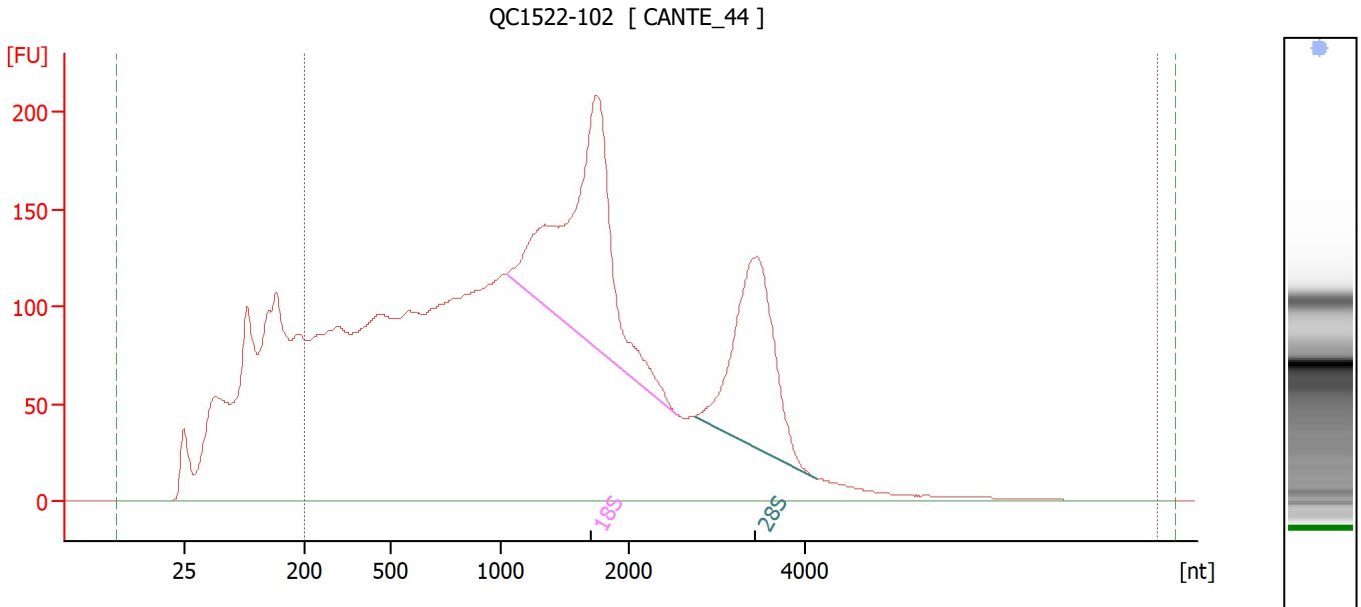
Region table for sample 3 : QC1522-101

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	5,733	573.0	48	

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
 Modified: 8/7/2023 9:46:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : QC1522-102

RNA Area:	7,379.0	Result Flagging Color:	
RNA Concentration:	20,096 pg/μl	Result Flagging Label:	RIN: 6.30
rRNA Ratio [28s / 18s]:	0.6	Corr. Area 1:	6,034.8
RNA Integrity Number (RIN):	6.3 (B.02.10)		

Fragment table for sample 4 : QC1522-102

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,037	2,547	768.5	10.4
28S	2,741	4,149	439.3	6.0

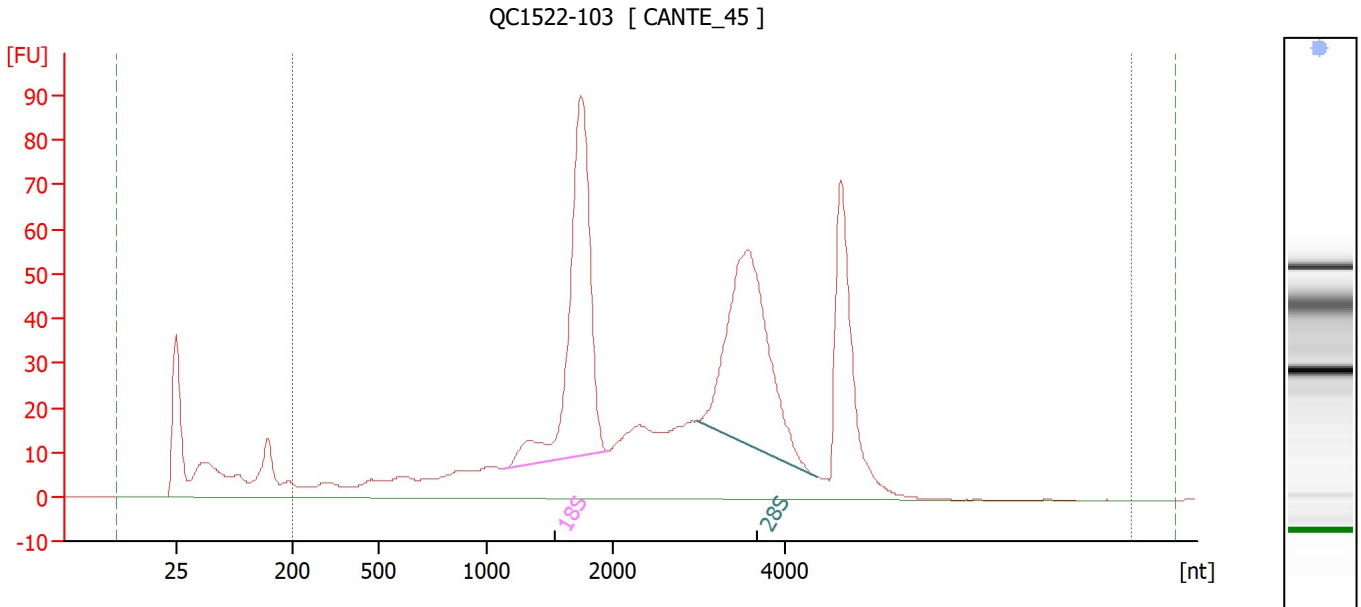
Region table for sample 4 : QC1522-102

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	6,034.8	82	

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
 Modified: 8/7/2023 9:46:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : QC1522-103

RNA Area:	1,156.2	Result Flagging Color:	
RNA Concentration:	3,149 pg/μl	Result Flagging Label:	RIN: 8.80
rRNA Ratio [28s / 18s]:	0.9	Corr. Area 1:	1,053.0
RNA Integrity Number (RIN):	8.8 (B.02.10)		

Fragment table for sample 5 : QC1522-103

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,134	1,969	223.4	19.3
28S	2,981	4,365	202.4	17.5

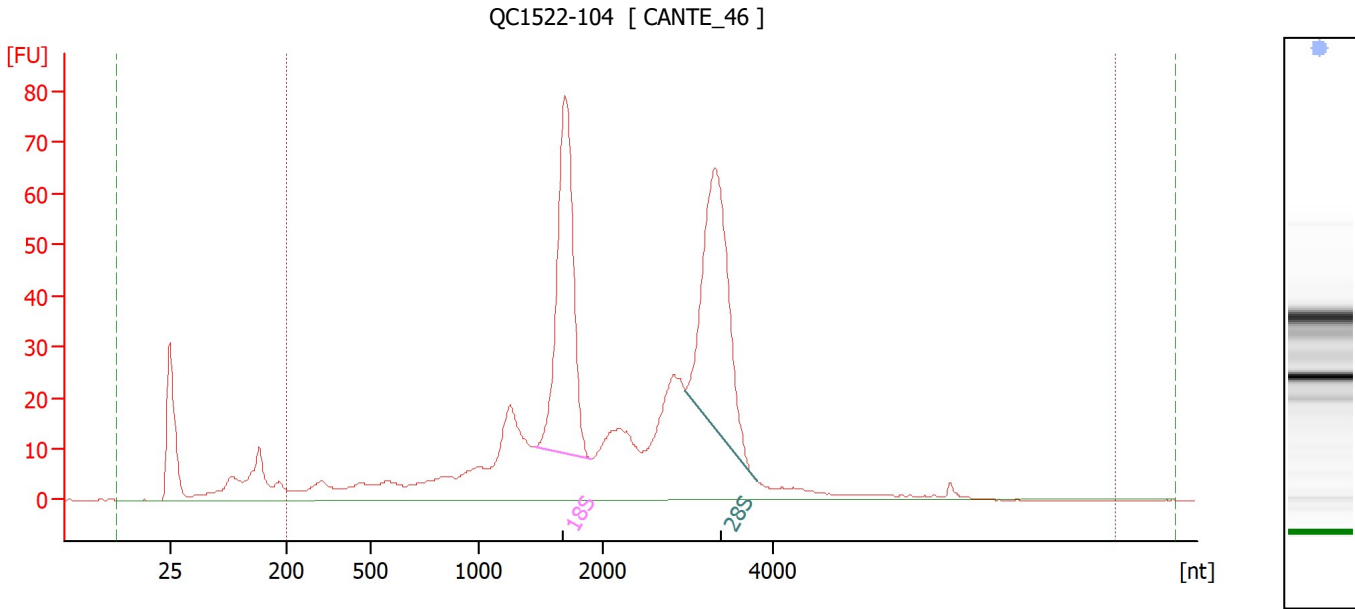
Region table for sample 5 : QC1522-103

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	1,052.9	91	

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
 Modified: 8/7/2023 9:46:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : QC1522-104

RNA Area:	848.0	Result Flagging Color:	
RNA Concentration:	2,309 pg/μl	Result Flagging Label:	RIN: 8.10
rRNA Ratio [28s / 18s]:	1.0	Corr. Area 1:	790.2
RNA Integrity Number (RIN):	8.1 (B.02.10)		

Fragment table for sample 6 : QC1522-104

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,456	1,905	152.3	18.0
28S	2,975	3,812	149.0	17.6

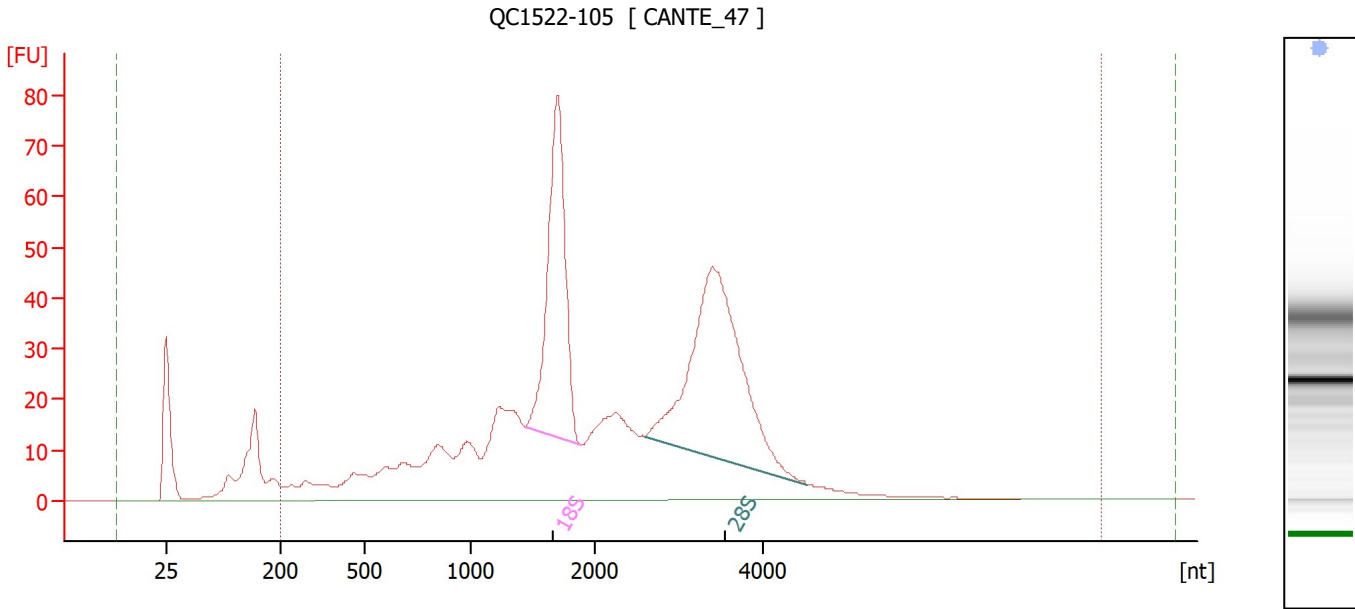
Region table for sample 6 : QC1522-104

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	790.2	93	

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
 Modified: 8/7/2023 9:46:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : QC1522-105

RNA Area:	1,030.5	Result Flagging Color:	
RNA Concentration:	2,806 pg/μl	Result Flagging Label:	RIN: 7.90
rRNA Ratio [28s / 18s]:	1.4	Corr. Area 1:	957.4
RNA Integrity Number (RIN):	7.9 (B.02.10)		

Fragment table for sample 7 : QC1522-105

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,431	1,892	157.3	15.3
28S	2,601	4,518	216.6	21.0

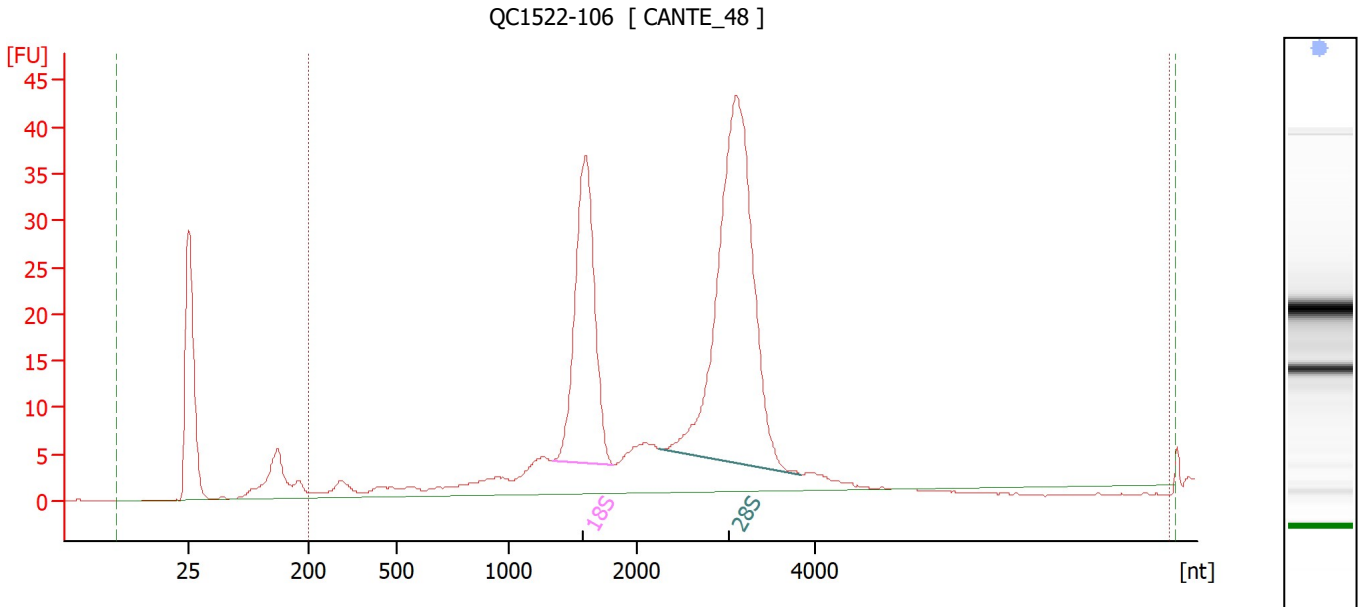
Region table for sample 7 : QC1522-105

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	957.4	93	

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
 Modified: 8/7/2023 9:46:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : QC1522-106

RNA Area:	401.1	Result Flagging Color:	
RNA Concentration:	1,092 pg/μl	Result Flagging Label:	RIN: 9.50
rRNA Ratio [28s / 18s]:	1.9	Corr. Area 1:	379.0
RNA Integrity Number (RIN):	9.5 (B.02.10)		

Fragment table for sample 8 : QC1522-106

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,339	1,820	83.6	20.8
28S	2,257	3,846	156.2	39.0

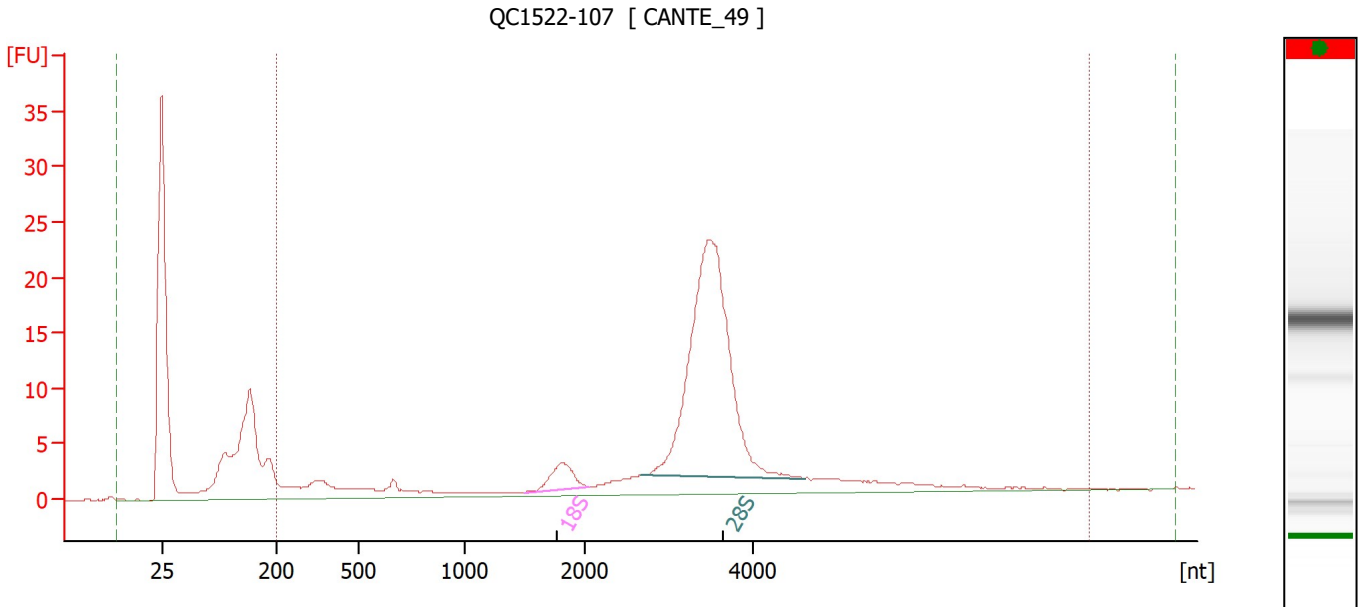
Region table for sample 8 : QC1522-106

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	379.0	95	

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
 Modified: 8/7/2023 9:46:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : QC1522-107

RNA Area:	231.2	Result Flagging Color:	████████
RNA Concentration:	630 pg/μl	Result Flagging Label:	RIN N/A ; DV200 > 70%
rRNA Ratio [28s / 18s]:	13.9	Corr. Area 1:	174.9
RNA Integrity Number (RIN):	N/A (B.02.10)		

Fragment table for sample 9 : QC1522-107

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,502	2,042	7.0	3.0
28S	2,653	4,601	96.9	41.9

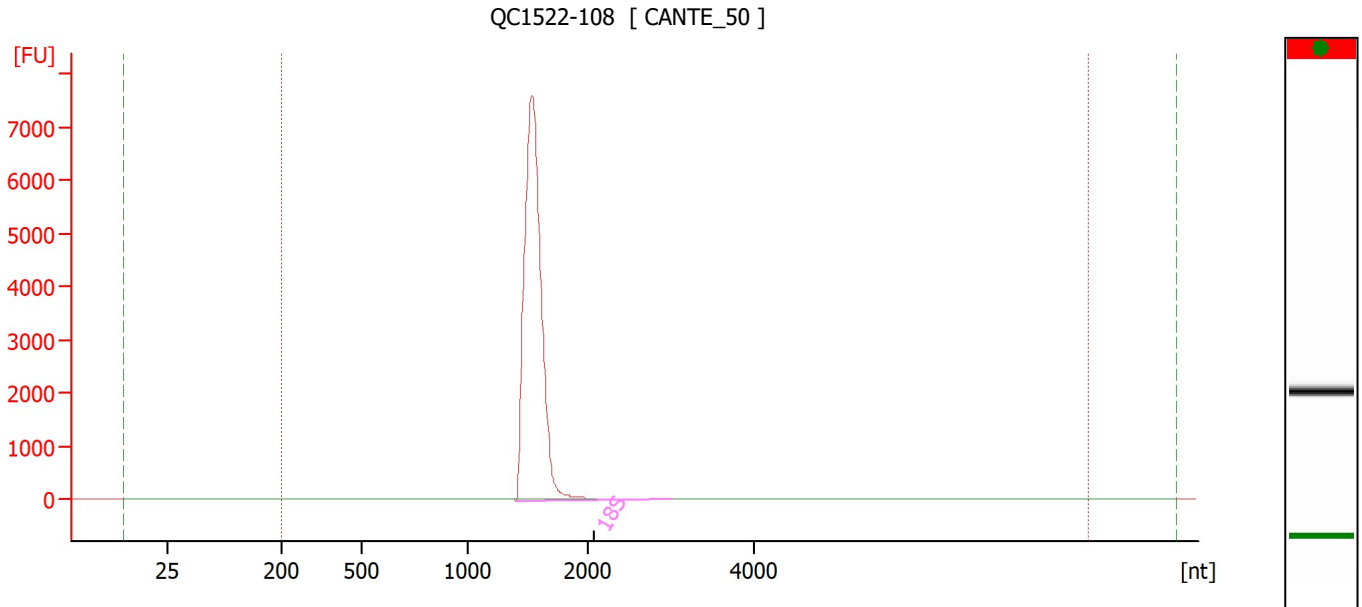
Region table for sample 9 : QC1522-107

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	174.9	76	████████

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
 Modified: 8/7/2023 9:46:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : QC1522-108

RNA Area:	18,251.8	Result Flagging Color:	████████
RNA Concentration:	49,706 pg/μl	Result Flagging Label:	RIN N/A ; DV200 > 70%
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	18,159.3
RNA Integrity Number (RIN):	N/A (B.02.10)		

Fragment table for sample 10 : QC1522-108

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,403	2,998	18,067.0	99.0

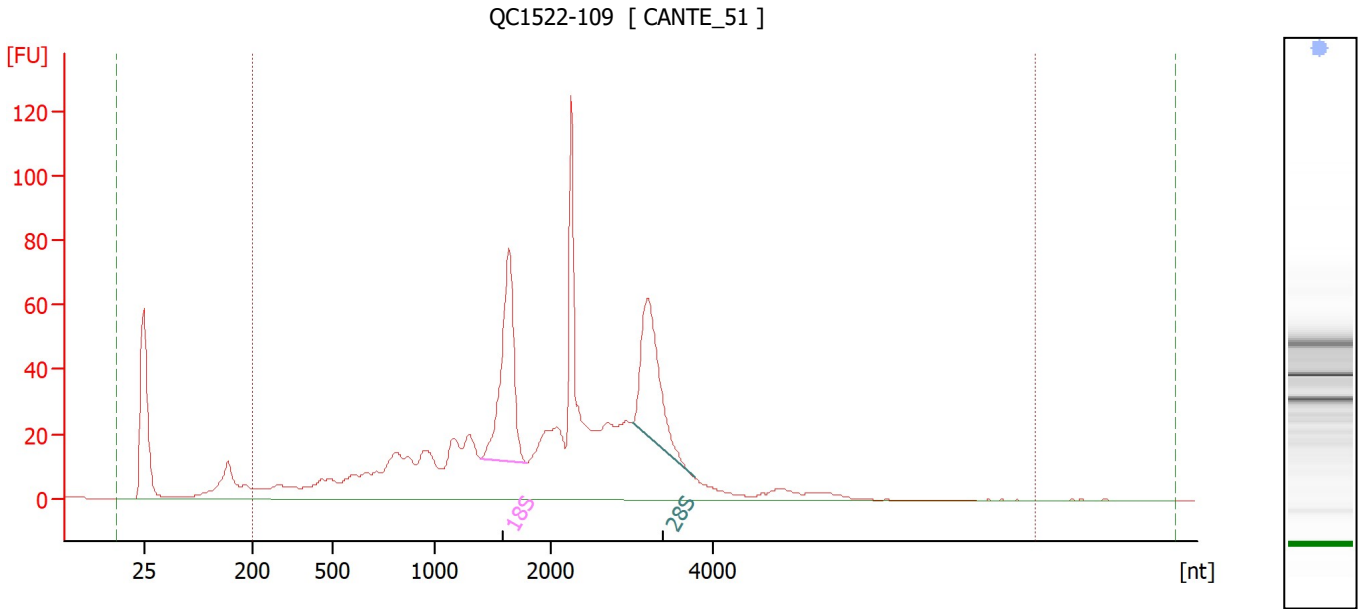
Region table for sample 10 : QC1522-108

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	18,159.3	99	████████

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
 Modified: 8/7/2023 9:46:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : QC1522-109

RNA Area:	1,065.2	Result Flagging Color:	
RNA Concentration:	2,901 pg/μl	Result Flagging Label:	RIN: 6.60
rRNA Ratio [28s / 18s]:	0.8	Corr. Area 1:	1,014.3
RNA Integrity Number (RIN):	6.6 (B.02.10)		

Fragment table for sample 11 : QC1522-109

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,405	1,789	116.7	11.0
28S	3,006	3,775	96.9	9.1

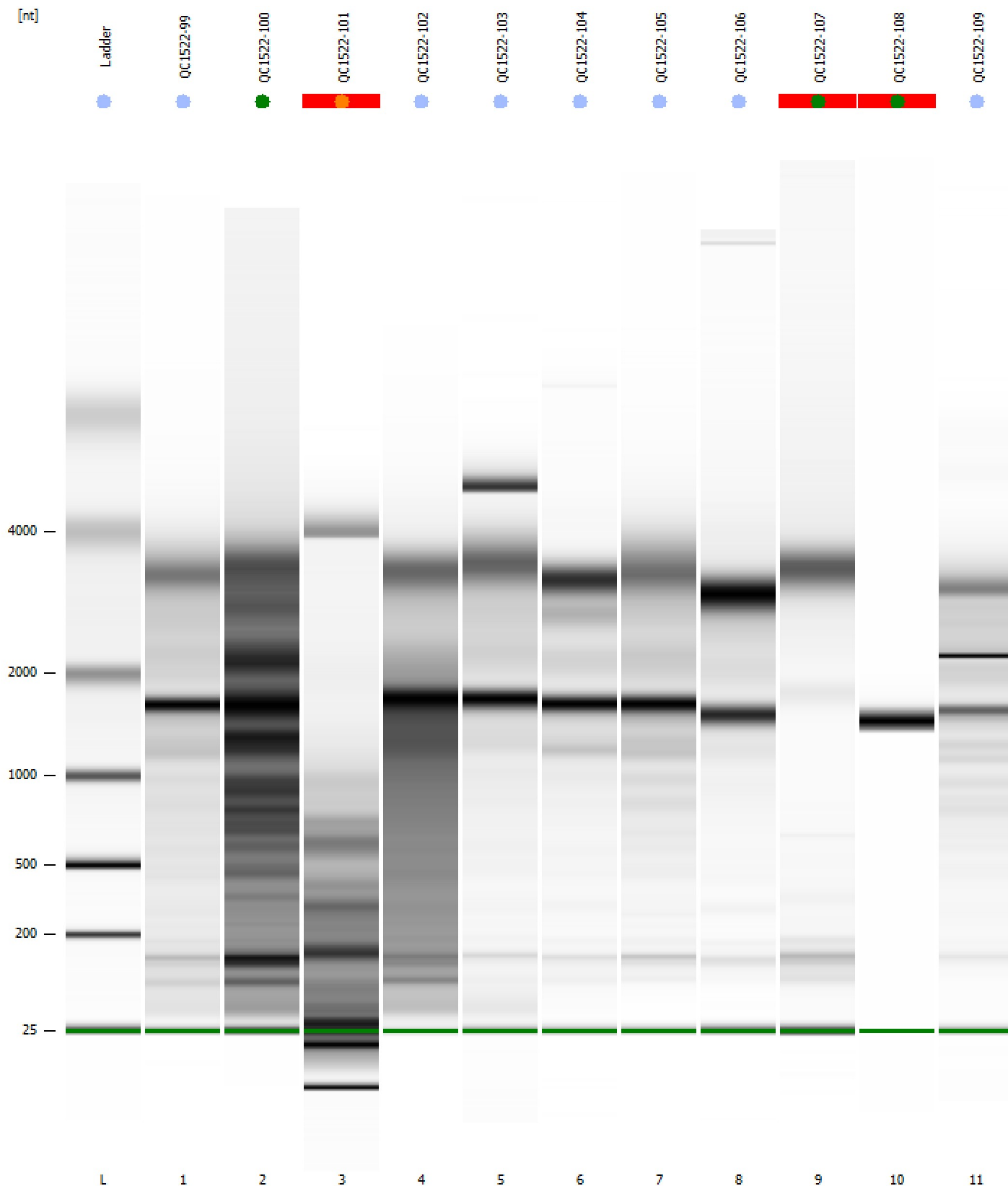
Region table for sample 11 : QC1522-109

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	1,014.3	95	

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
Modified: 8/7/2023 9:46:04 AM

Gel Image

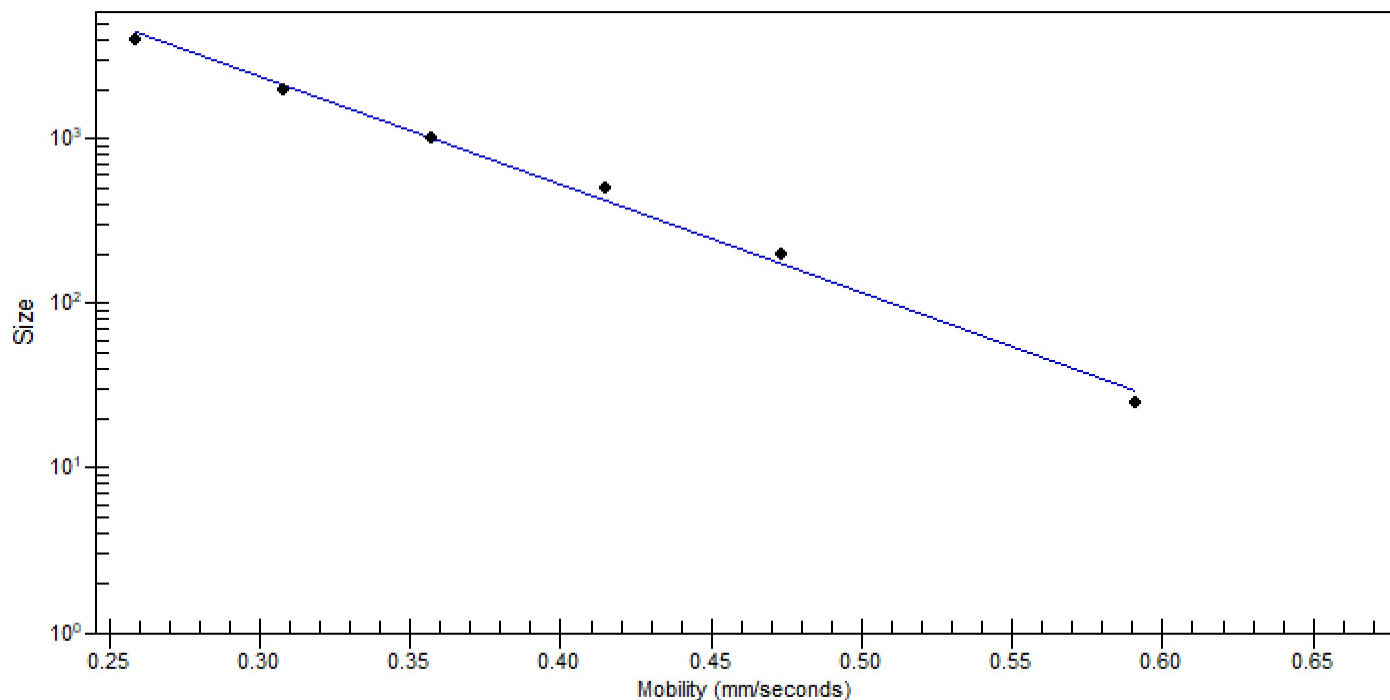


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad

Created: 8/1/2023 10:49:02 AM
Modified: 8/7/2023 9:46:04 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...zer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad
 Created: 8/1/2023 10:49:02 AM
 Modified: 8/7/2023 9:46:04 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Imported set points from C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\DV200 RNA Pico.csv		User Interface	Assay		8/7/2023 9:45:33 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		8/1/2023 11:11:58 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-08-01\Bioanalyzer1_Eukaryote Total RNA Pico_DE34903152_2023-08-01_001.xad)		Instrument	Run		8/1/2023 10:49:09 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		8/1/2023 10:49:09 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/1/2023 10:49:09 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/1/2023 10:49:09 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/1/2023 10:49:09 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/1/2023 10:49:09 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/1/2023 10:49:09 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB