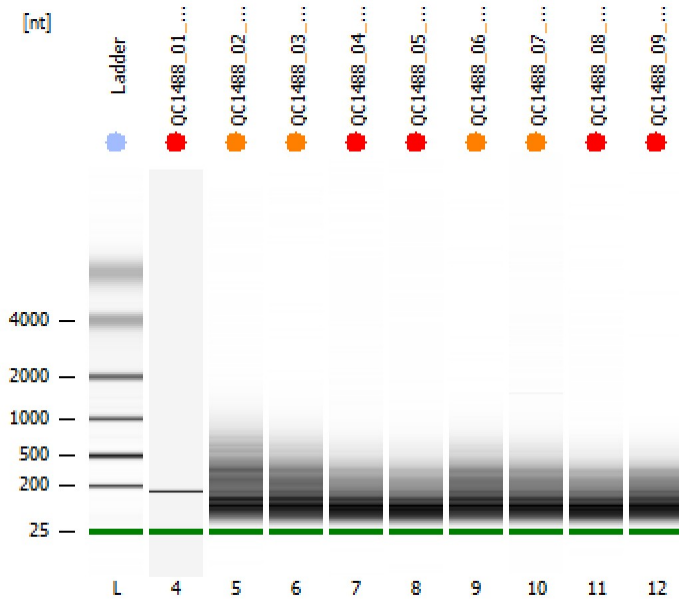


Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
 Modified: 6/9/2023 8:20:17 AM

Electrophoresis File Run Summary



Instrument Information:

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

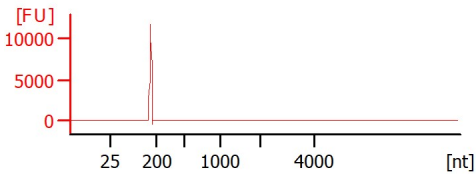
Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\DV200 RNA Nano.xsy
 Assay Class: Eukaryote Total RNA Nano
 Version: 2.6
 Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)
 Modified for DV200 Analysis

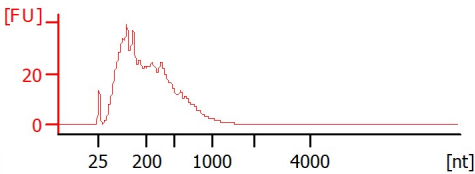
Chip Information:

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

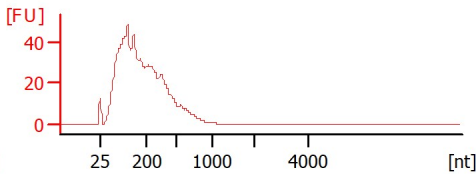
QC1488_01_RECTRL2_totarNA
 RIN: 2.50 ; DV200 < 30%



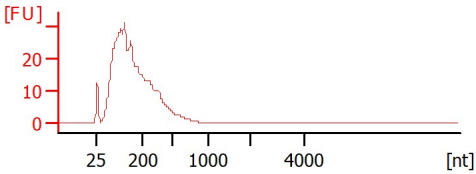
QC1488_02_RECTRL3_totarNA
 RIN: 2.10 ; DV200 30-50%



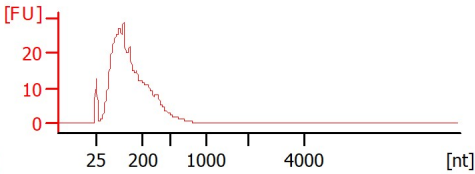
QC1488_03_RECTRL4_totarNA
 RIN: 2.20 ; DV200 30-50%



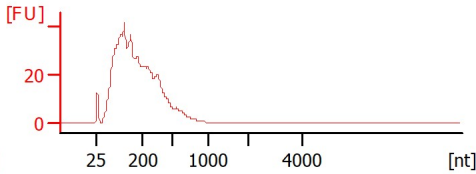
QC1488_04_RECTRL5_totarNA
 RIN: 2.30 ; DV200 < 30%



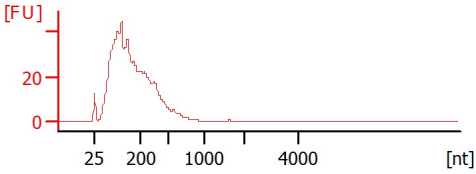
QC1488_05_RECK1_totarNA
 RIN: 2.40 ; DV200 < 30%



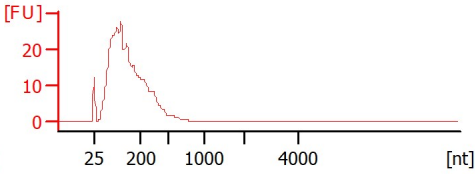
QC1488_06_RECK2_totarNA
 RIN: 2.20 ; DV200 30-50%



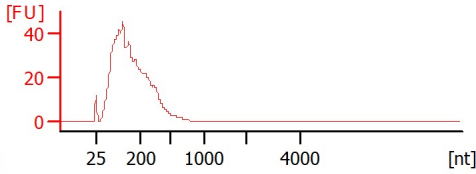
QC1488_07_RECK3_totarNA
 RIN: 2.30 ; DV200 30-50%



QC1488_08_RECK5_totarNA
 RIN: 2.40 ; DV200 < 30%



QC1488_09_MUTCTRL1_totarNA
 RIN: 2.30 ; DV200 < 30%



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
 Modified: 6/9/2023 8:20:17 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
QC1488_01_RECTRL2_to taRNA		✓	RIN: 2.50 ; DV200 < 30%	Red
QC1488_02_RECTRL3_to taRNA		✓	RIN: 2.10 ; DV200 30-50%	Orange
QC1488_03_RECTRL4_to taRNA		✓	RIN: 2.20 ; DV200 30-50%	Orange
QC1488_04_RECTRL5_to taRNA		✓	RIN: 2.30 ; DV200 < 30%	Red
QC1488_05_RECK1_total RNA		✓	RIN: 2.40 ; DV200 < 30%	Red
QC1488_06_RECK2_total RNA		✓	RIN: 2.20 ; DV200 30-50%	Orange
QC1488_07_RECK3_total RNA		✓	RIN: 2.30 ; DV200 30-50%	Orange
QC1488_08_RECK5_total RNA		✓	RIN: 2.40 ; DV200 < 30%	Red
QC1488_09_MUTCTRL1_total RNA		✓	RIN: 2.30 ; DV200 < 30%	Red
Ladder		✓	All Other Samples	Blue

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
 Modified: 6/9/2023 8:20:17 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

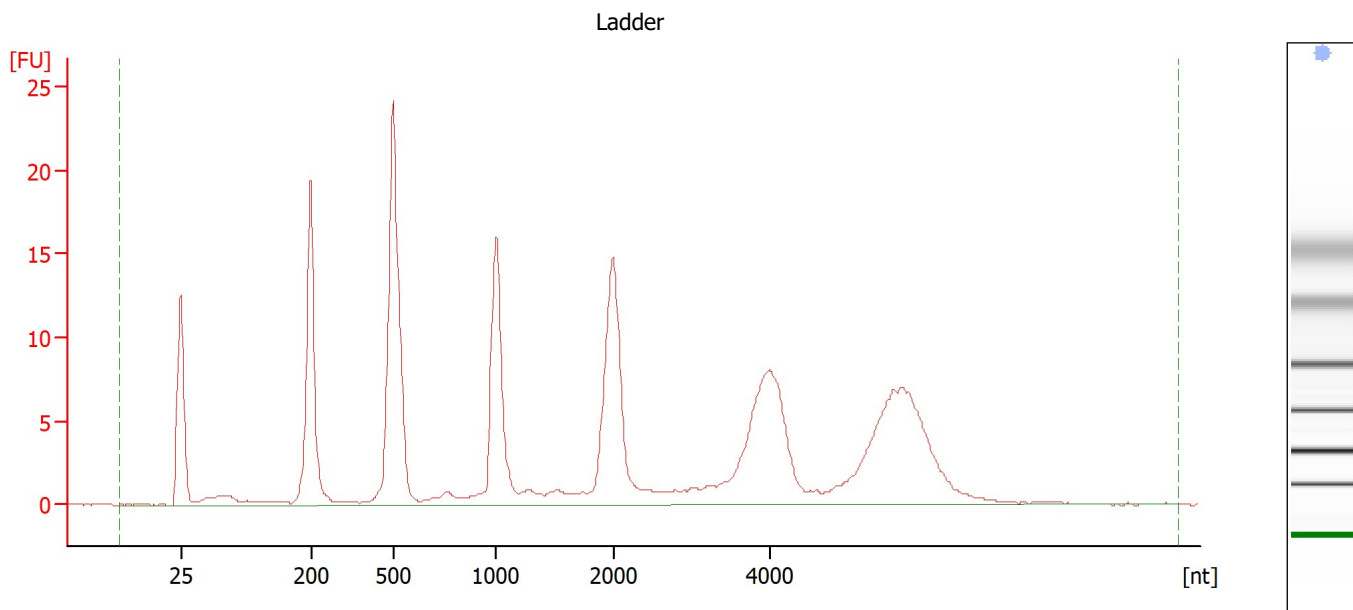
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
Modified: 6/9/2023 8:20:17 AM

Electropherogram Summary



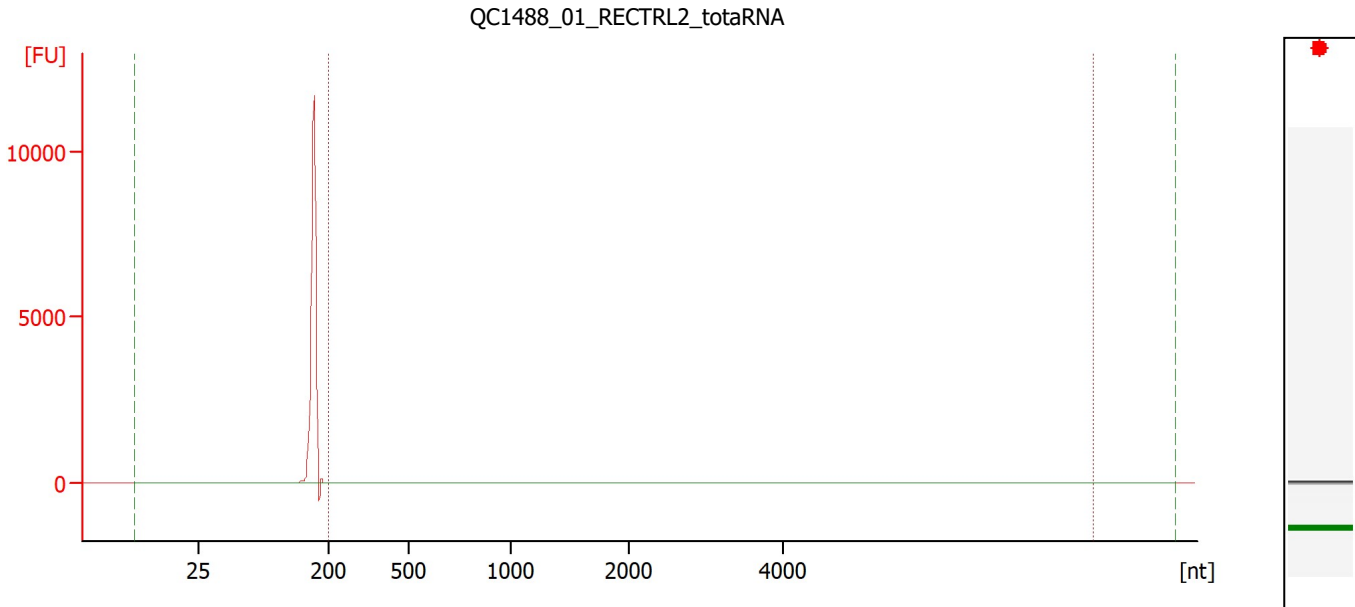
Overall Results for Ladder

RNA Area:	228.2	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
 Modified: 6/9/2023 8:20:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : QC1488 01 RECTRL2 totarNA

RNA Area:	11,776.0	Result Flagging Color:	
RNA Concentration:	7,739 ng/μl	Result Flagging Label:	RIN: 2.50 ; DV200 < 30%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	2.5 (B.02.10, Anomaly Threshold(s) manually adapted)	Corr. Area 1:	355.6

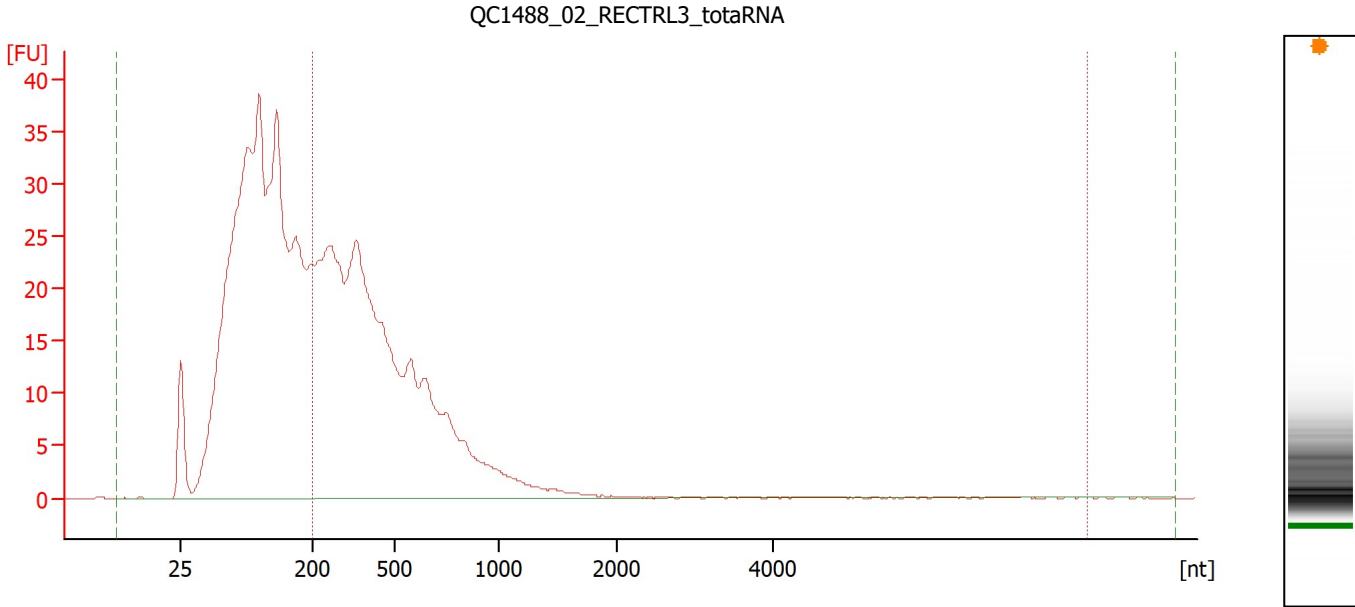
Region table for sample 4 : QC1488 01 RECTRL2 totarNA

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	355.6	3	

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
 Modified: 6/9/2023 8:20:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : QC1488 02 RECTL3 totarNA

RNA Area:	873.2	Result Flagging Color:	
RNA Concentration:	574 ng/μl	Result Flagging Label:	RIN: 2.10 ; DV200 30-50%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	2.1 (B.02.10)	Corr. Area 1:	387.9

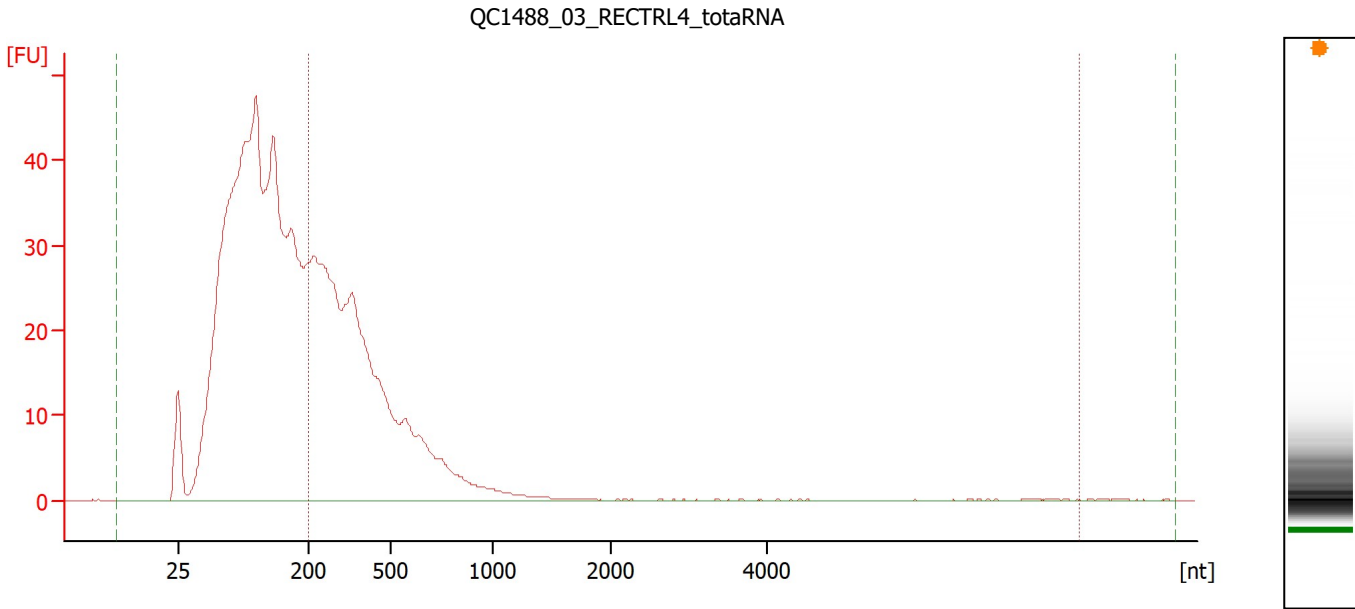
Region table for sample 5 : QC1488 02 RECTL3 totarNA

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	387.9	44	

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
 Modified: 6/9/2023 8:20:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : QC1488 03 RECTRL4 totaRNA

RNA Area:	986.3	Result Flagging Color:	
RNA Concentration:	648 ng/μl	Result Flagging Label:	RIN: 2.20 ; DV200 30-50%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	2.2 (B.02.10)	Corr. Area 1:	357.1

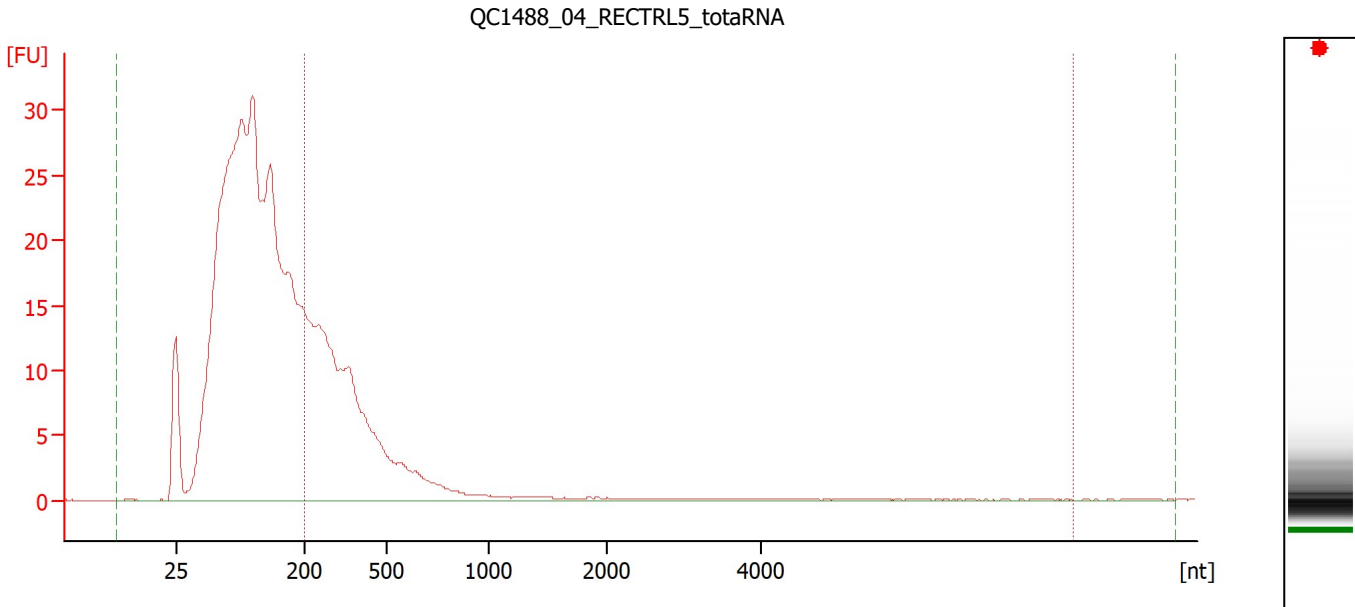
Region table for sample 6 : QC1488 03 RECTRL4 totaRNA

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	357.1	36	

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
 Modified: 6/9/2023 8:20:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : QC1488 04 RECTRL5 totaRNA

RNA Area:	560.3	Result Flagging Color:	
RNA Concentration:	368 ng/μl	Result Flagging Label:	RIN: 2.30 ; DV200 < 30%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	2.3 (B.02.10, Anomaly Threshold(s) manually adapted)	Corr. Area 1:	152.1

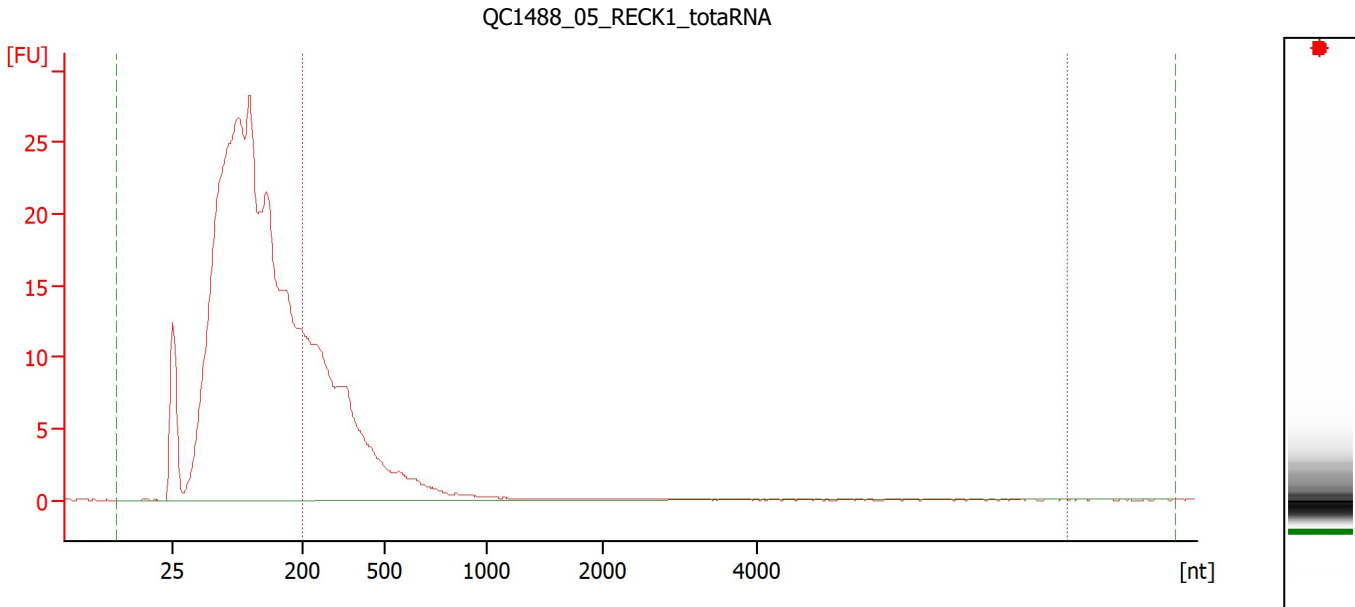
Region table for sample 7 : QC1488 04 RECTRL5 totaRNA

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	152.1	27	

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
 Modified: 6/9/2023 8:20:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : QC1488 05 RECK1 totaRNA

RNA Area:	474.5	Result Flagging Color:	████████
RNA Concentration:	312 ng/μl	Result Flagging Label:	RIN: 2.40 ; DV200 < 30%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	2.4 (B.02.10, Anomaly Threshold(s) manually adapted)	Corr. Area 1:	110.4

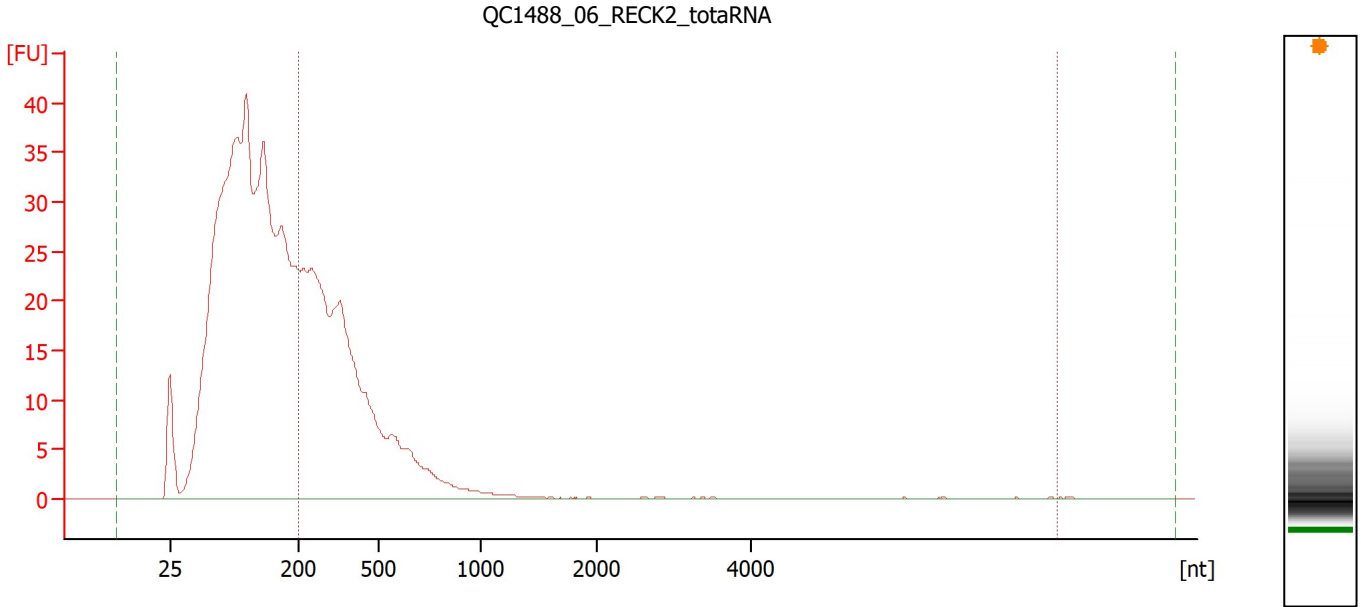
Region table for sample 8 : QC1488 05 RECK1 totaRNA

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	110.4	23	████████

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
 Modified: 6/9/2023 8:20:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : QC1488 06 RECK2 totaRNA

RNA Area:	811.5	Result Flagging Color:	
RNA Concentration:	533 ng/μl	Result Flagging Label:	RIN: 2.20 ; DV200 30-50%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	2.2 (B.02.10)	Corr. Area 1:	274.4

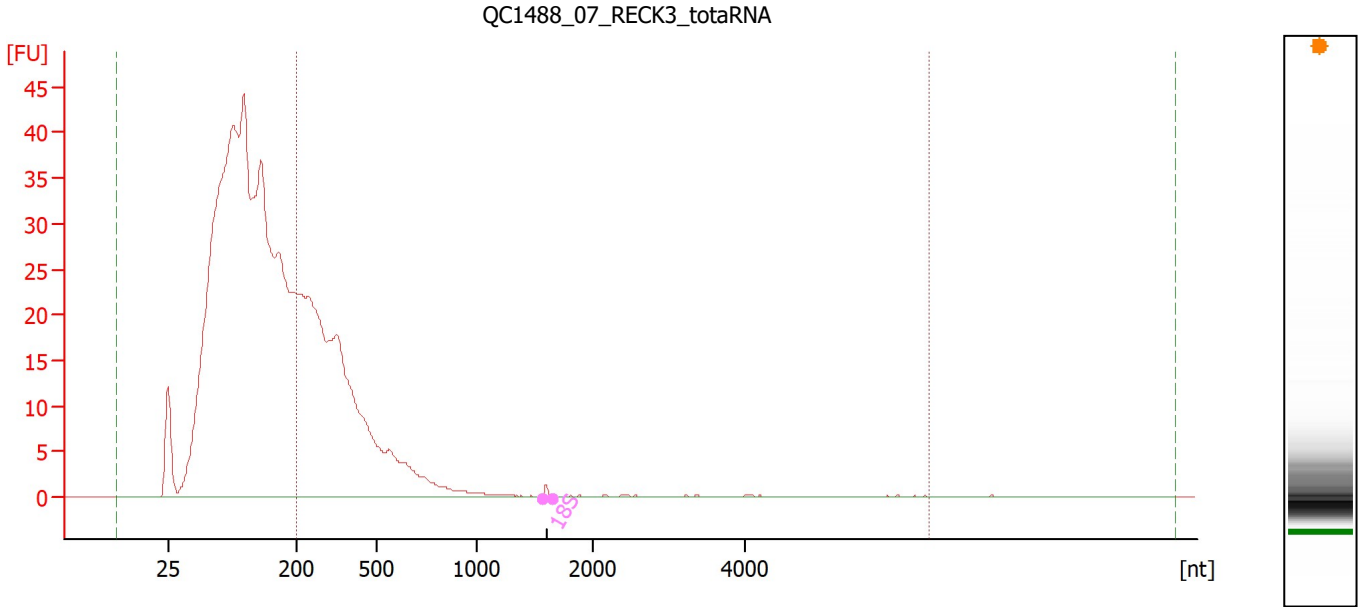
Region table for sample 9 : QC1488 06 RECK2 totaRNA

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	274.4	34	

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
 Modified: 6/9/2023 8:20:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : QC1488 07 RECK3 totaRNA

RNA Area:	808.3	Result Flagging Color:	
RNA Concentration:	531 ng/μl	Result Flagging Label:	RIN: 2.30 ; DV200 30-50%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	2.3 (B.02.10)	Corr. Area 1:	238.8

Fragment table for sample 10 : QC1488 07 RECK3 totaRNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,574	1,648	0.9	0.1

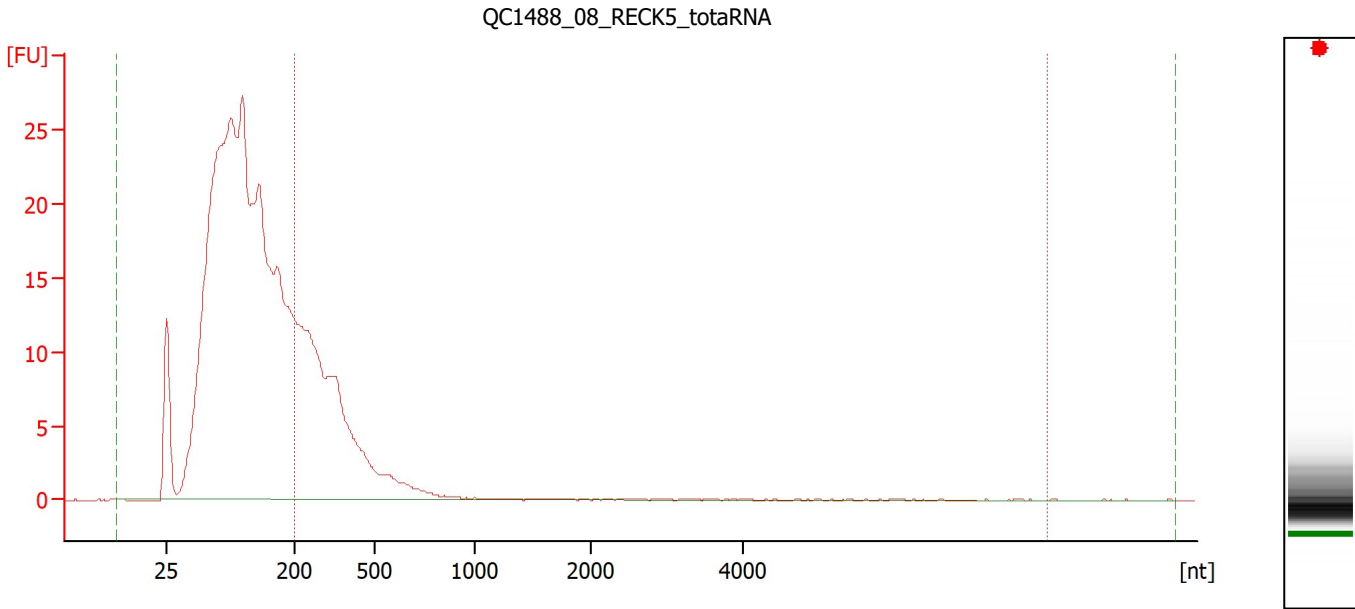
Region table for sample 10 : QC1488 07 RECK3 totaRNA

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	6,413	238.8	30	

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
 Modified: 6/9/2023 8:20:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : QC1488 08 RECK5 totaRNA

RNA Area:	463.0	Result Flagging Color:	████████
RNA Concentration:	304 ng/μl	Result Flagging Label:	RIN: 2.40 ; DV200 < 30%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	2.4 (B.02.10)	Corr. Area 1:	107.5

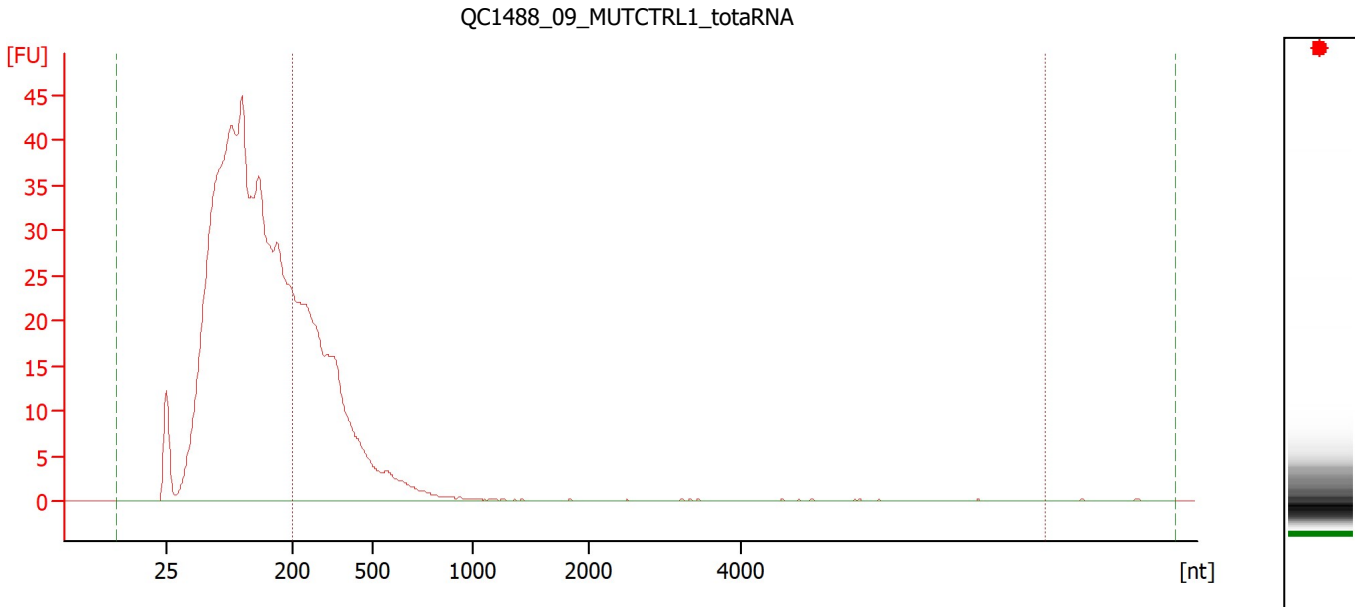
Region table for sample 11 : QC1488 08 RECK5 totaRNA

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	107.5	23	████████

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
 Modified: 6/9/2023 8:20:17 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : QC1488 09 MUTCTRL1 totaRNA

RNA Area:	793.4	Result Flagging Color:	████████
RNA Concentration:	521 ng/μl	Result Flagging Label:	RIN: 2.30 ; DV200 < 30%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	2.3 (B.02.10)	Corr. Area 1:	206.8

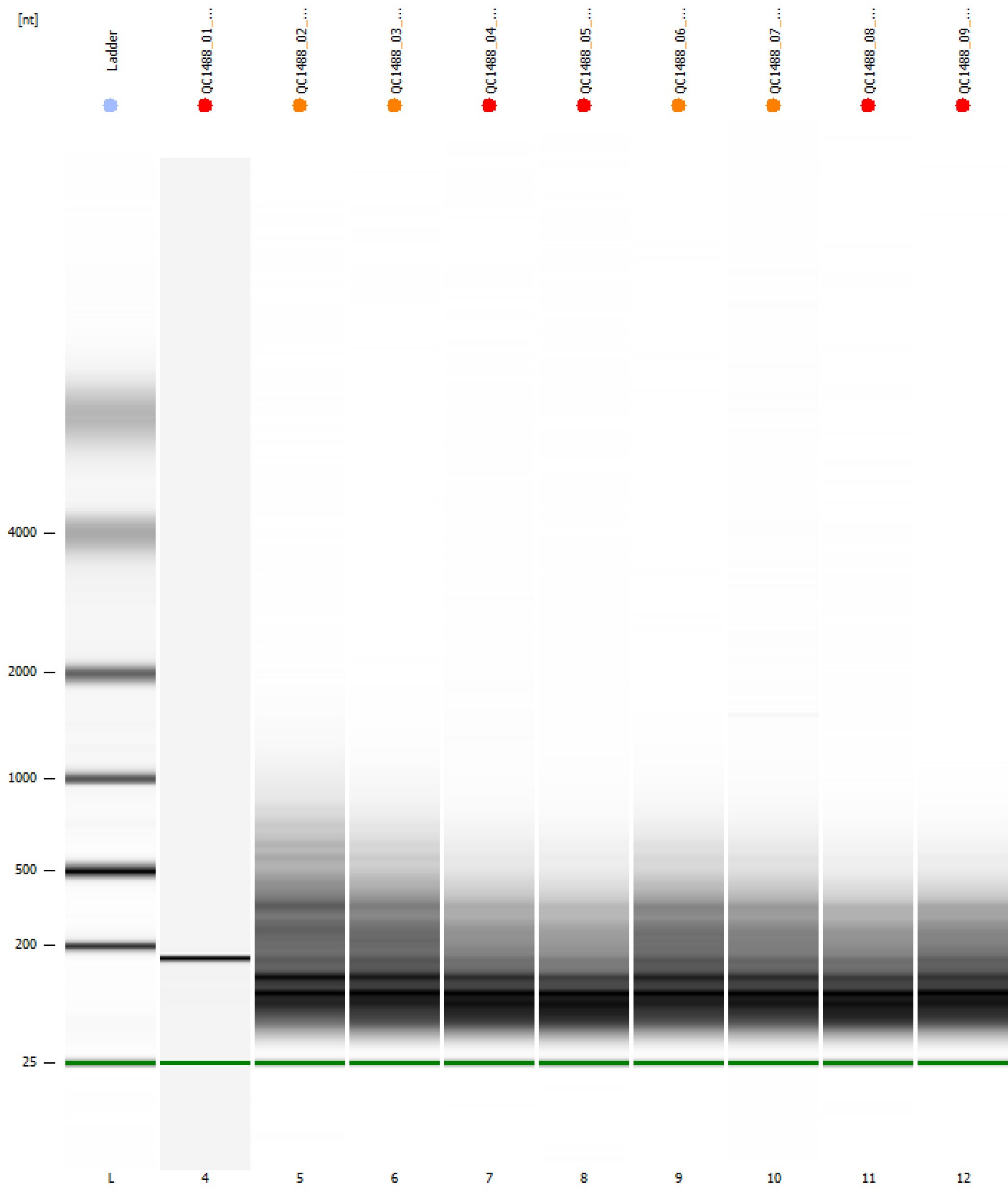
Region table for sample 12 : QC1488 09 MUTCTRL1 totaRNA

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	8,000	206.8	26	████████

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
Modified: 6/9/2023 8:20:17 AM

Gel Image

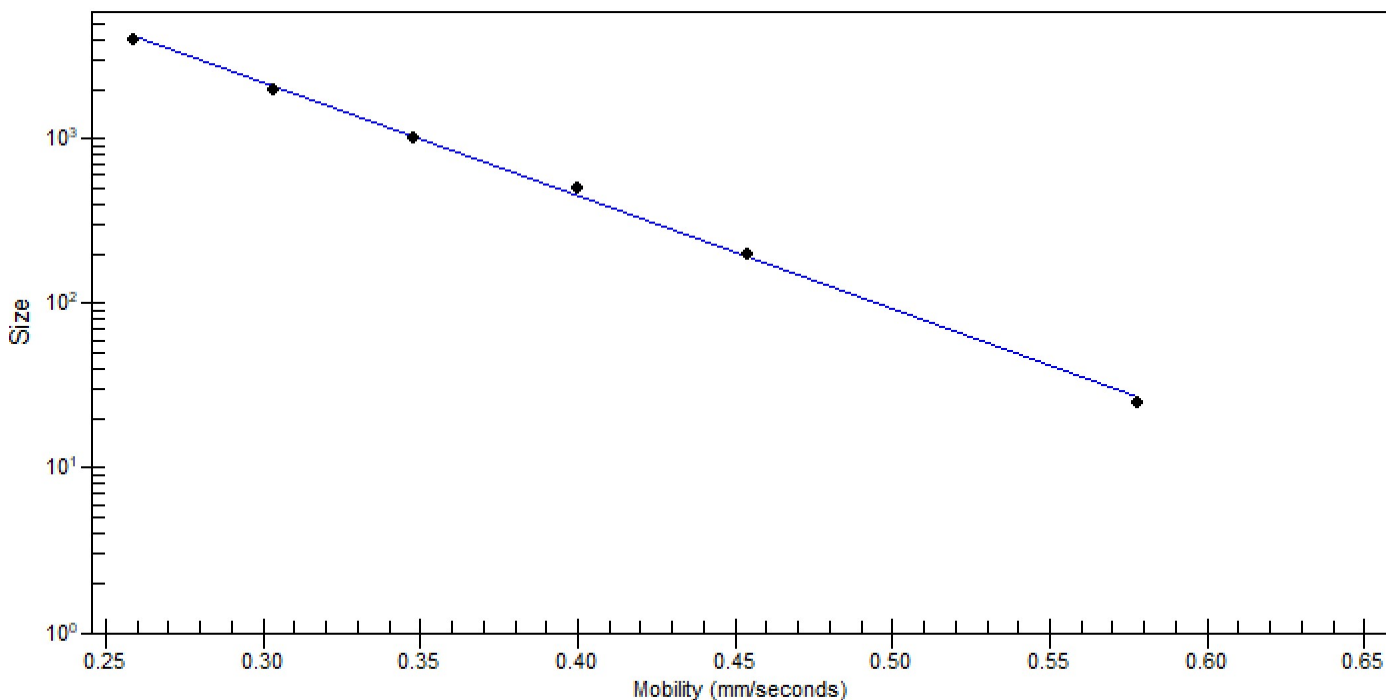


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad

Created: 5/25/2023 9:36:53 AM
Modified: 6/9/2023 8:20:17 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...er1_Eukaryote Total RNA Nano_QC1488_1of2_2023-05-25_002.xad
 Created: 5/25/2023 9:36:53 AM
 Modified: 6/9/2023 8:20:17 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		5/25/2023 9:59:59 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-05-25\Bioanalyzer1_Eukaryote Total RNA Nano_2023-05-25_002.xad)		Instrument	Run		5/25/2023 9:36:58 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		5/25/2023 9:36:58 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		5/25/2023 9:36:58 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		5/25/2023 9:36:58 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		5/25/2023 9:36:58 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		5/25/2023 9:36:58 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		5/25/2023 9:36:58 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB