

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_001.xad

Created: 9/9/2019 10:49:07 AM
Modified: 9/9/2019 11:12:05 AM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

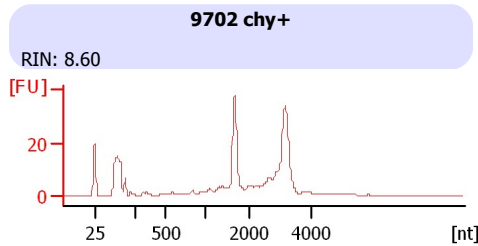
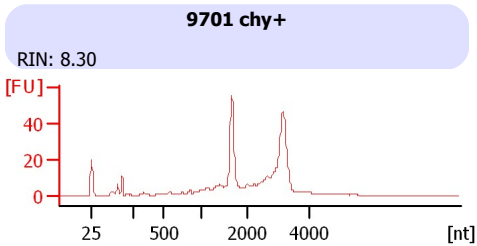
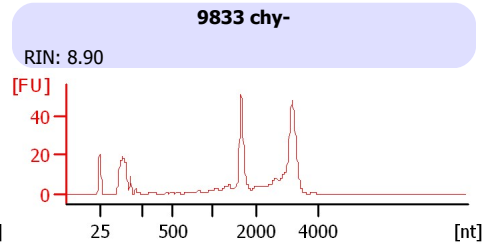
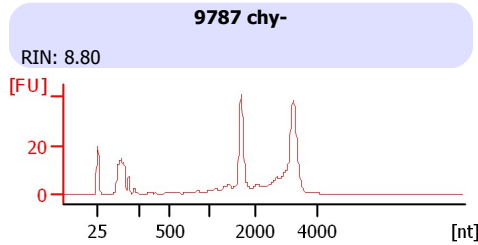
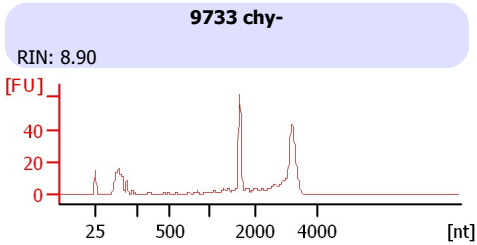
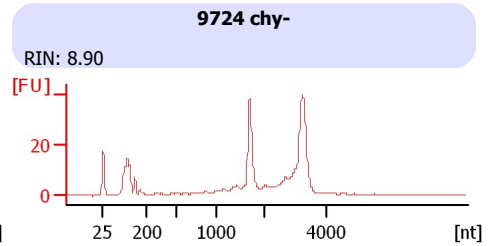
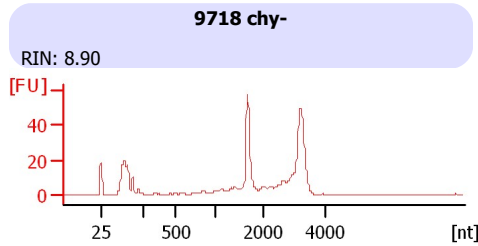
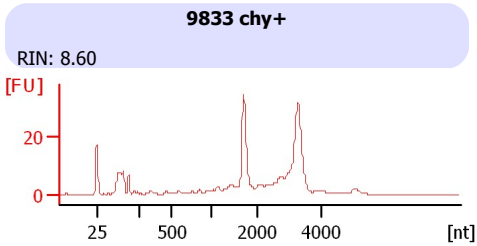
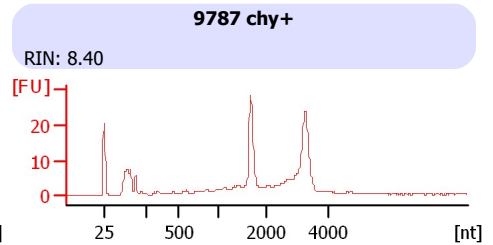
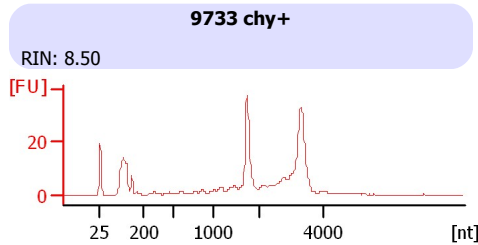
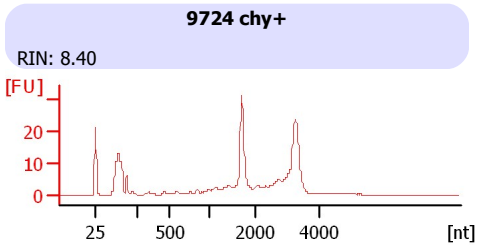
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
9724 chy+		✓	RIN: 8.40	
9733 chy+		✓	RIN: 8.50	
9787 chy+		✓	RIN: 8.40	
9833 chy+		✓	RIN: 8.60	
9718 chy-		✓	RIN: 8.90	
9724 chy-		✓	RIN: 8.90	
9733 chy-		✓	RIN: 8.90	
9787 chy-		✓	RIN: 8.80	
9833 chy-		✓	RIN: 8.90	
9701 chy+		✓	RIN: 8.30	
9702 chy+		✓	RIN: 8.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

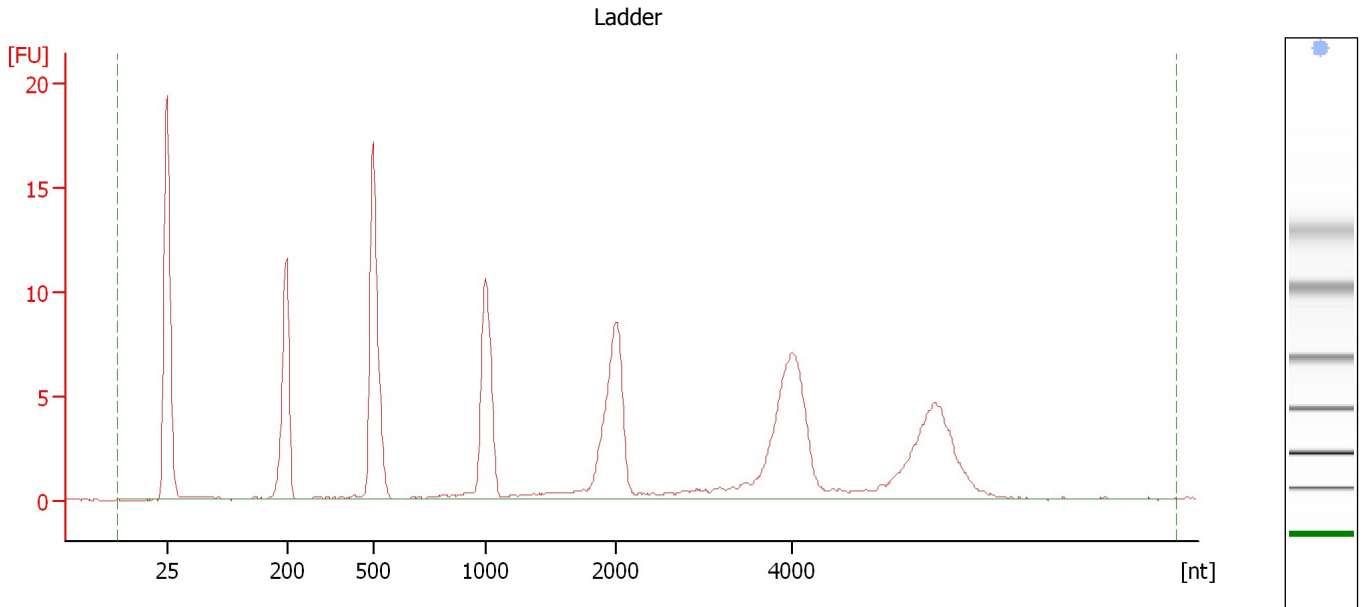
Ladder

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

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Electropherogram Summary



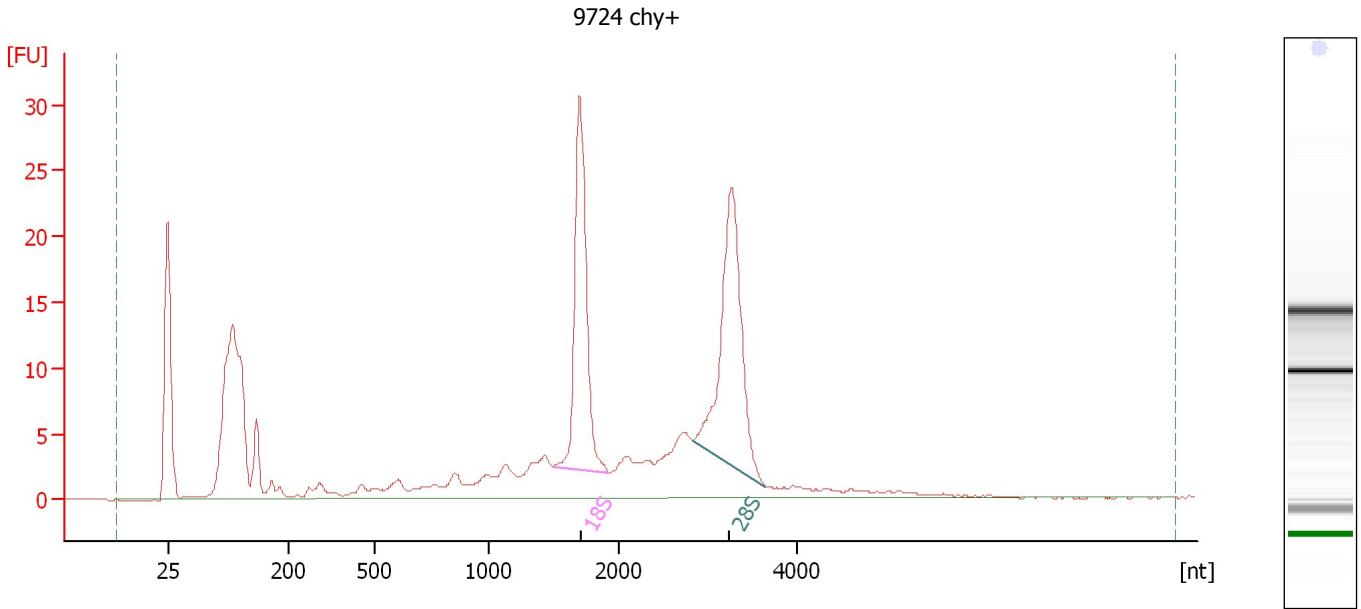
Overall Results for Ladder

RNA Area:	127.3	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 9724 chy+

RNA Area: 264.5 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 2,078 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 8.40

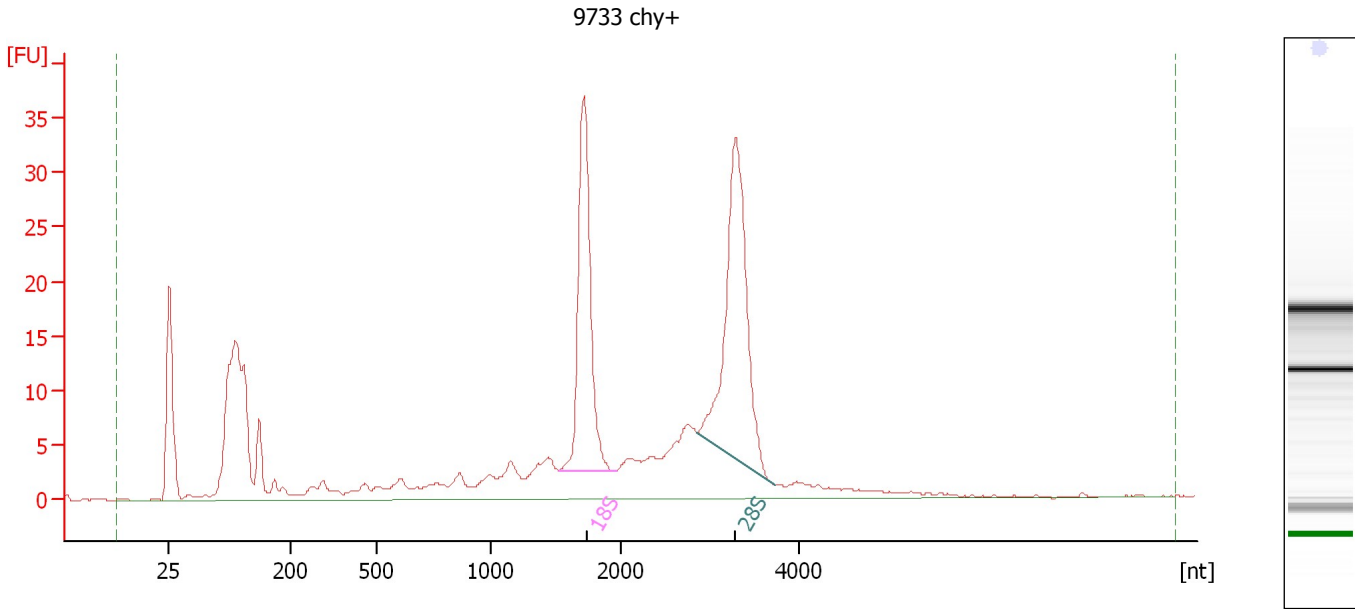
Fragment table for sample 1 : 9724 chy+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,486	1,927	42.6	16.1
28S	2,833	3,653	47.4	17.9

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 9733 chy+

RNA Area: 343.6 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 2,699 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 8.50

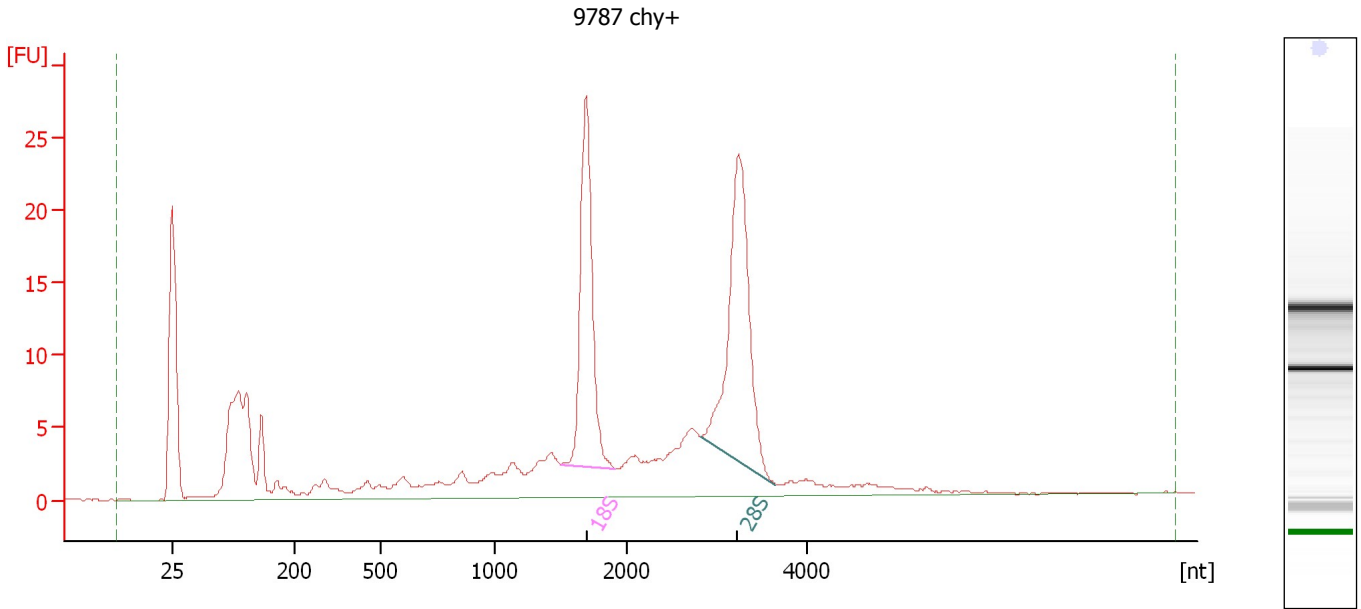
Fragment table for sample 2 : 9733 chy+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,528	1,968	53.4	15.6
28S	2,856	3,734	68.3	19.9

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Created: 9/9/2019 10:49:07 AM
 Modified: 9/9/2019 11:12:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 9787 chy+

RNA Area:	239.5	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	1,881 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.40

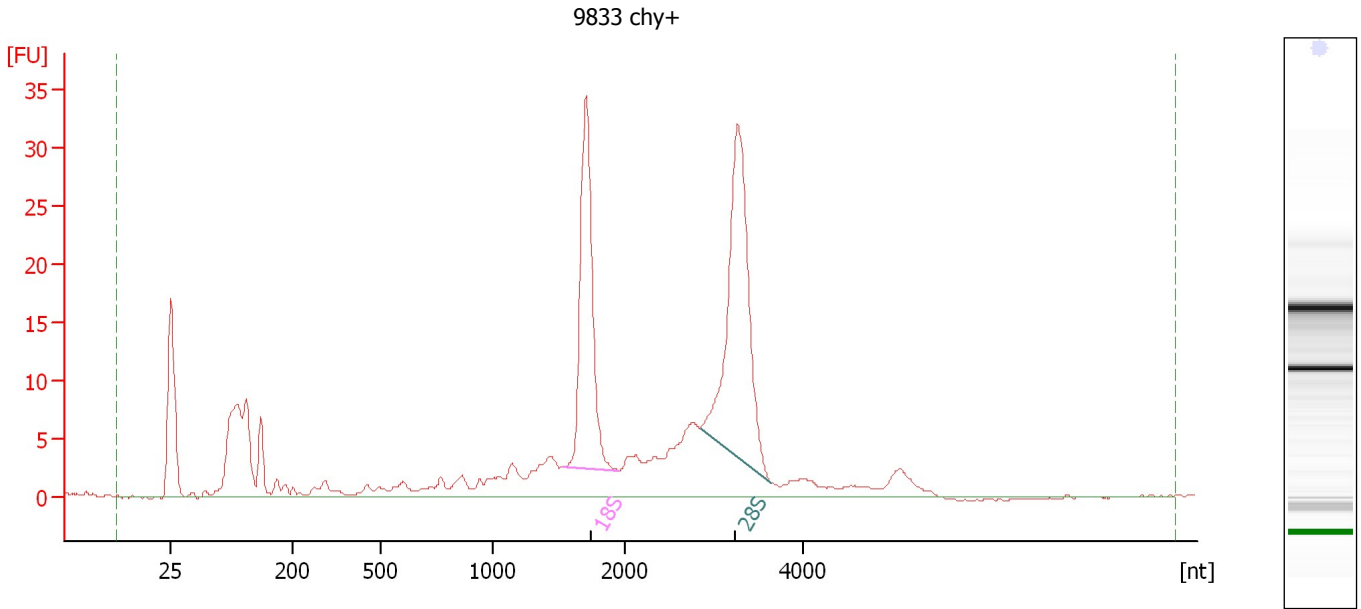
Fragment table for sample 3 : 9787 chy+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,492	1,904	38.9	16.2
28S	2,815	3,652	47.6	19.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_001.xad

Created: 9/9/2019 10:49:07 AM
Modified: 9/9/2019 11:12:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 9833 chy+

RNA Area:	287.1	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	2,255 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.60

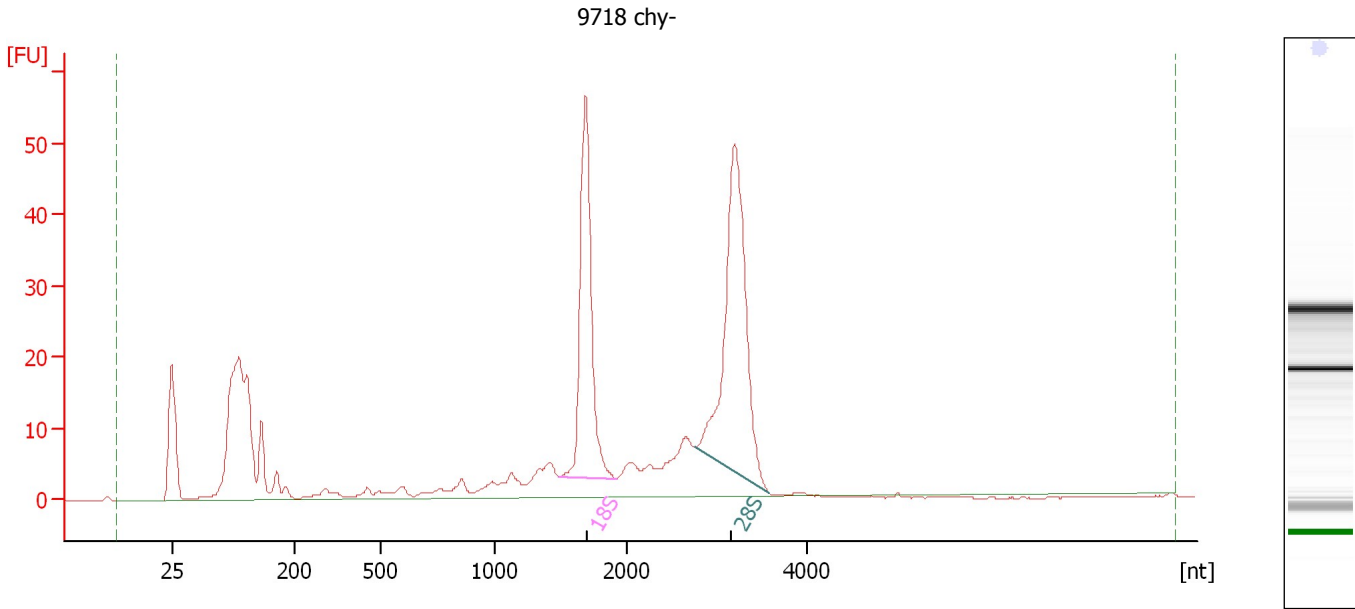
Fragment table for sample 4 : 9833 chy+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,523	1,952	49.5	17.3
28S	2,841	3,631	65.3	22.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_001.xad

Created: 9/9/2019 10:49:07 AM
Modified: 9/9/2019 11:12:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 9718 chy-

RNA Area:	427.4	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	3,357 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.90

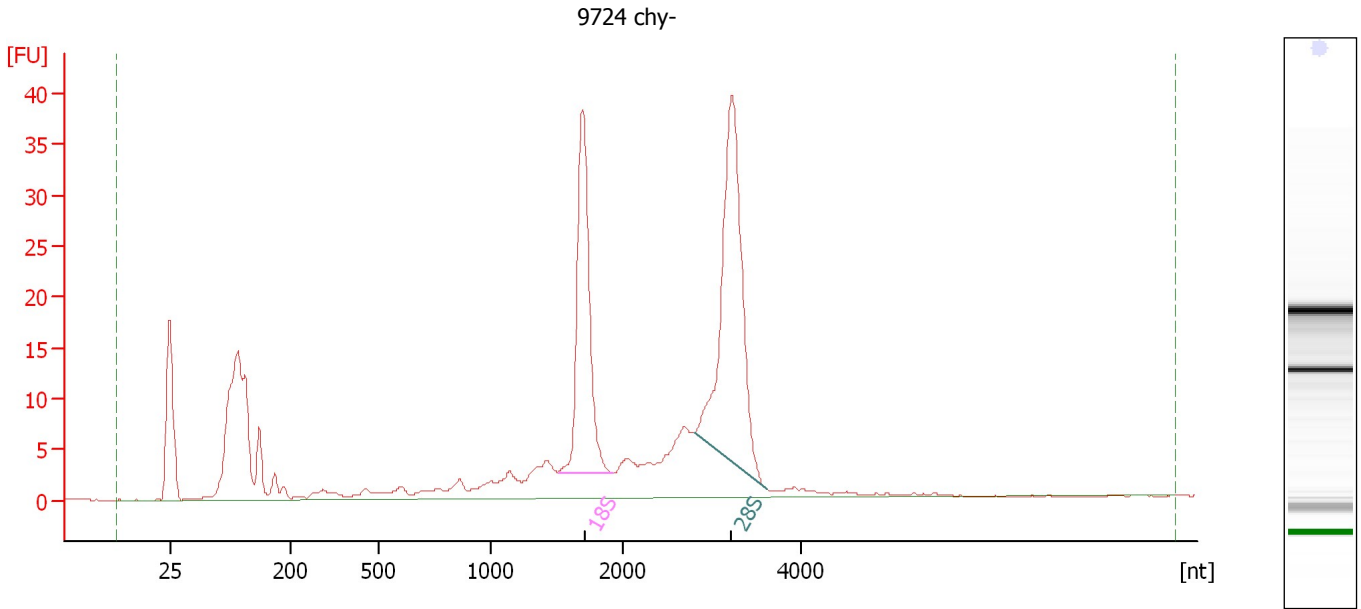
Fragment table for sample 5 : 9718 chy-

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,484	1,912	76.2	17.8
28S	2,755	3,592	106.1	24.8

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Created: 9/9/2019 10:49:07 AM
Modified: 9/9/2019 11:12:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 9724 chy-

RNA Area: 334.4 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 2,627 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 8.90

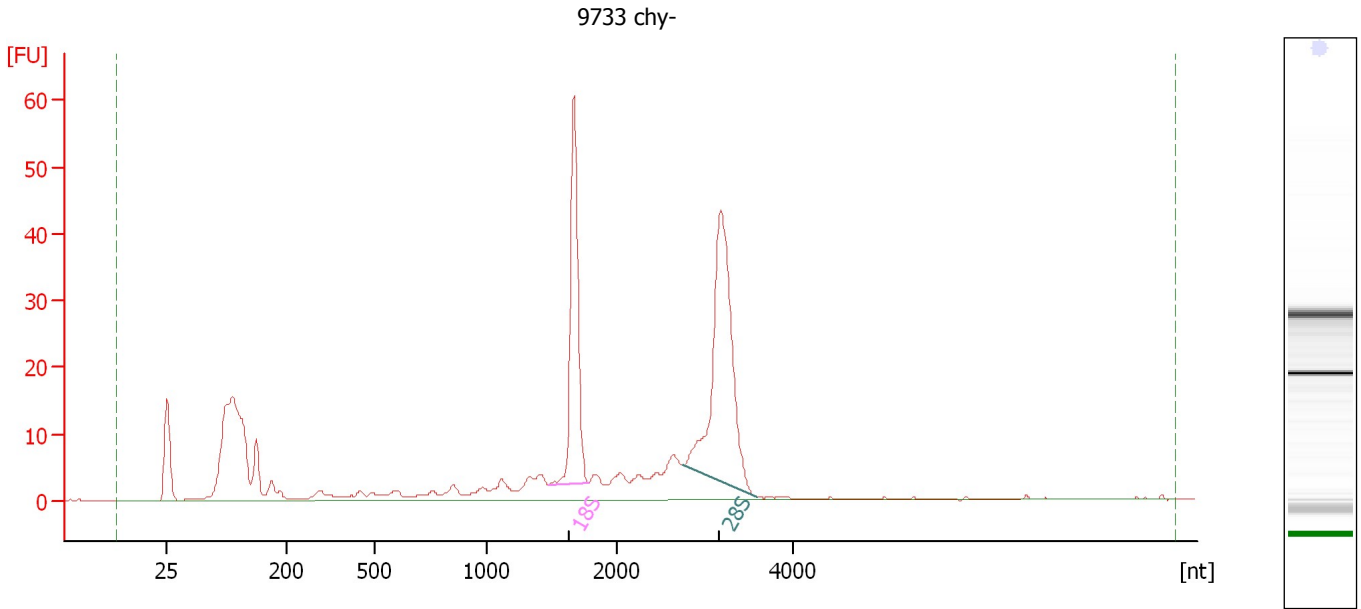
Fragment table for sample 6 : 9724 chy-

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,505	1,919	56.0	16.7
28S	2,794	3,623	81.3	24.3

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Created: 9/9/2019 10:49:07 AM
Modified: 9/9/2019 11:12:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 9733 chy-

RNA Area: 354.8 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 2,787 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 8.90

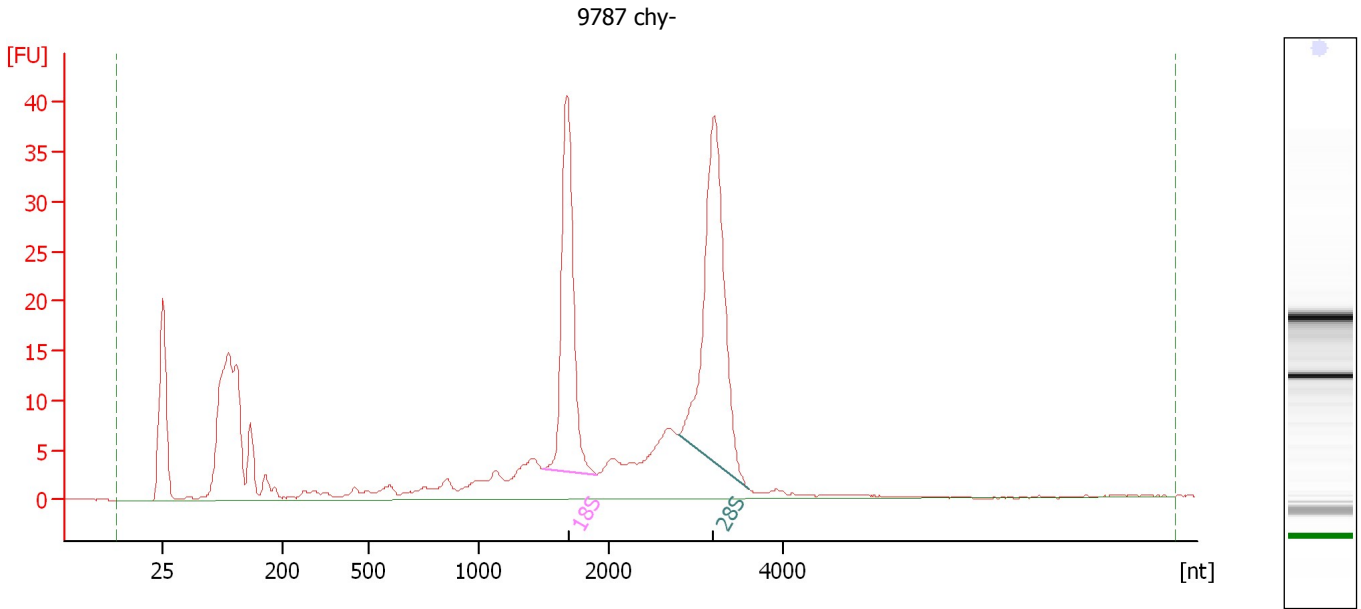
Fragment table for sample 7 : 9733 chy-

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,476	1,779	60.5	17.1
28S	2,738	3,584	88.9	25.1

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Modified: 9/9/2019 11:12:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 9787 chy-

RNA Area:	348.8	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	2,740 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.80

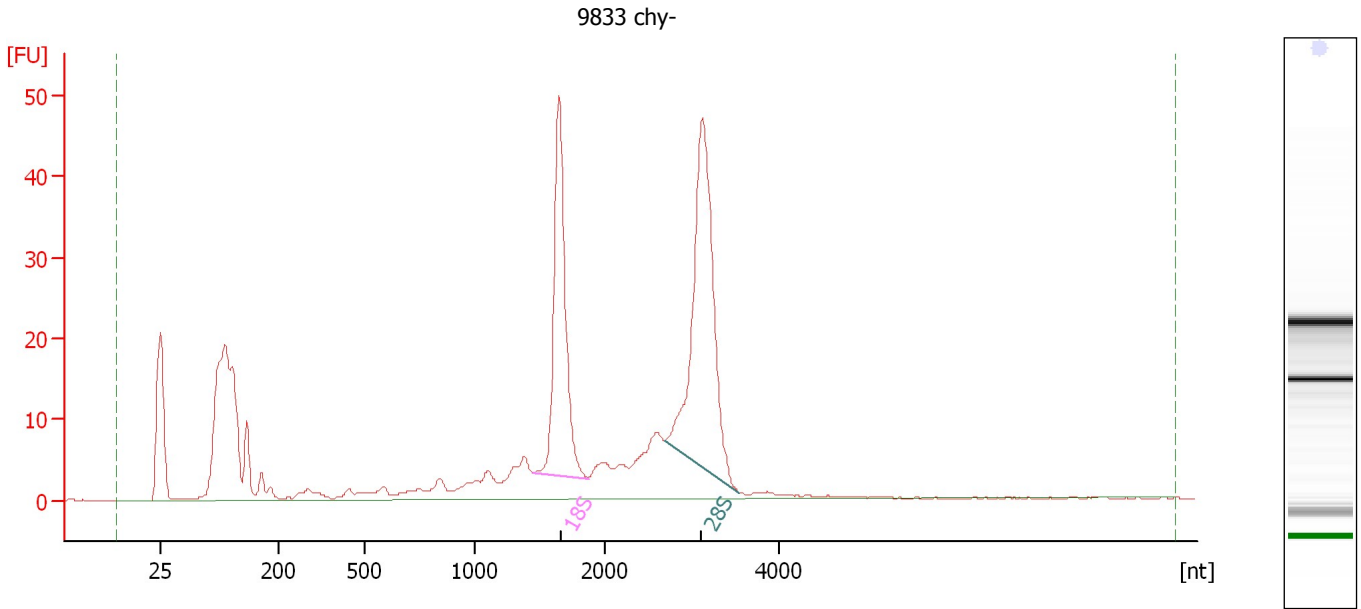
Fragment table for sample 8 : 9787 chy-

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,487	1,908	58.4	16.7
28S	2,791	3,597	80.4	23.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_001.xad

Created: 9/9/2019 10:49:07 AM
Modified: 9/9/2019 11:12:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 9833 chy-

RNA Area: 422.7 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 3,320 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.90

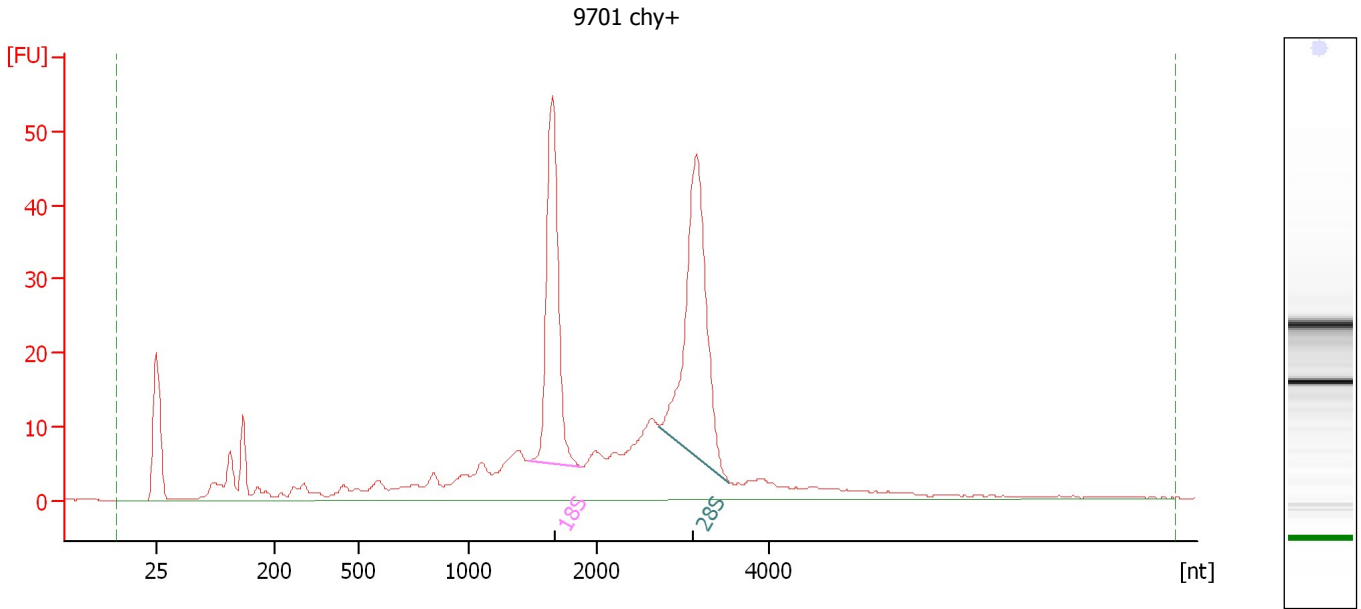
Fragment table for sample 9 : 9833 chy-

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,451	1,874	71.3	16.9
28S	2,684	3,542	100.4	23.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_001.xad

Created: 9/9/2019 10:49:07 AM
Modified: 9/9/2019 11:12:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 9701 chy+

RNA Area: 453.1 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 3,559 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 8.30

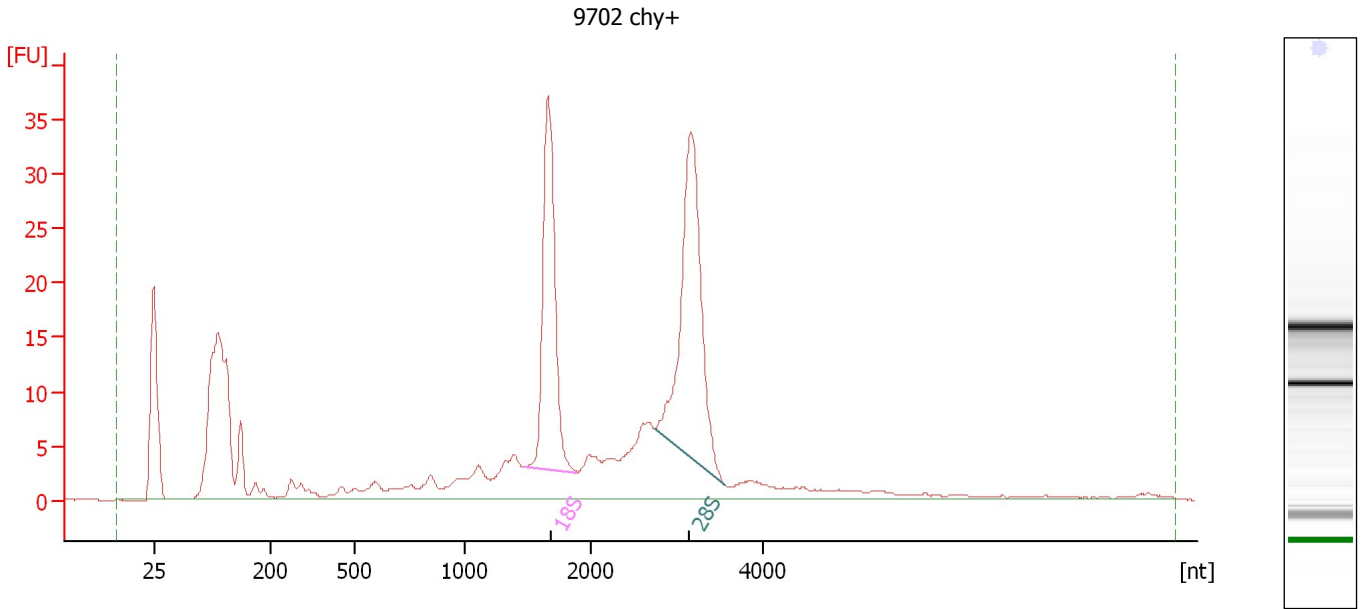
Fragment table for sample 10 : 9701 chy+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,469	1,888	78.4	17.3
28S	2,738	3,543	96.8	21.4

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Modified: 9/9/2019 11:12:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 9702 chy+

RNA Area:	353.0	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	2,773 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.60

Fragment table for sample 11 : 9702 chy+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,466	1,887	55.6	15.7
28S	2,741	3,549	70.5	20.0

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Modified: 9/9/2019 11:12:05 AM

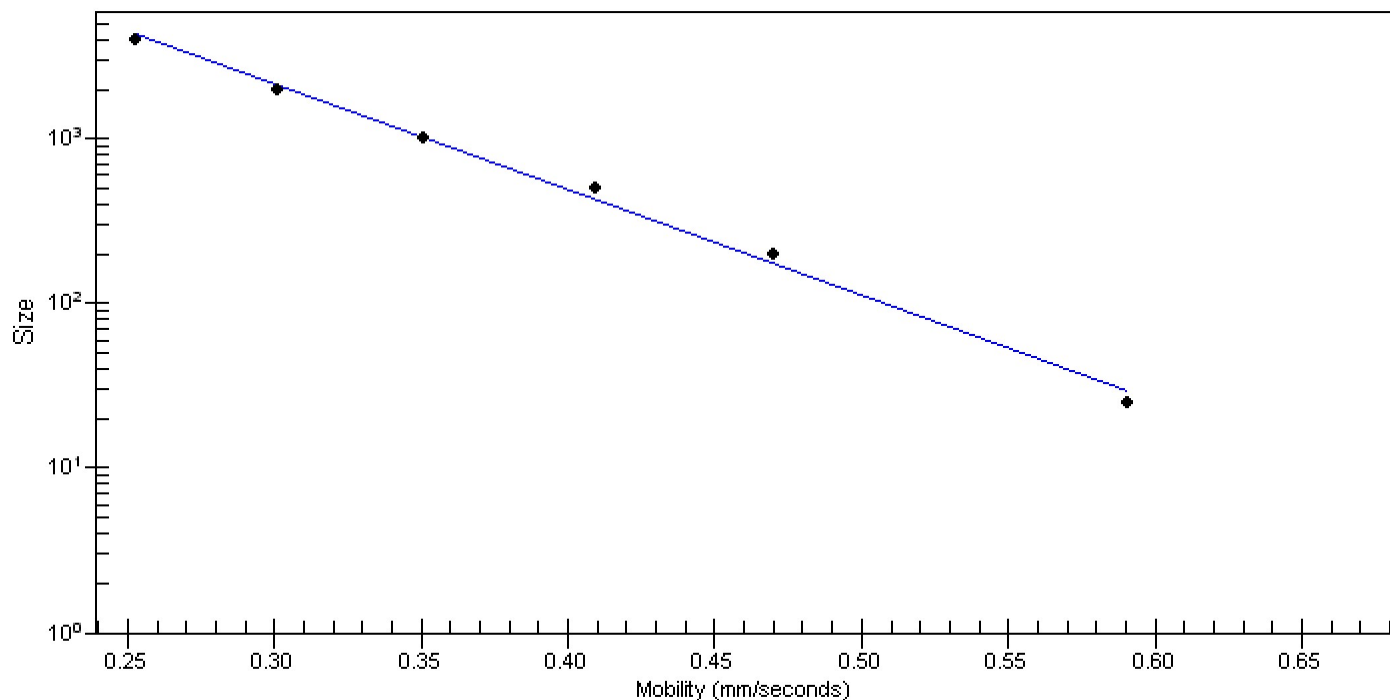
Gel Image

Assay Class: Eukaryote Total RNA Pico
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Curves

Standard Curve



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Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		9/9/2019 11:12:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_001.xad)		Instrument	Run		9/9/2019 10:49:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/9/2019 10:49:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/9/2019 10:49:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/9/2019 10:49:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/9/2019 10:49:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/9/2019 10:49:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/9/2019 10:49:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1