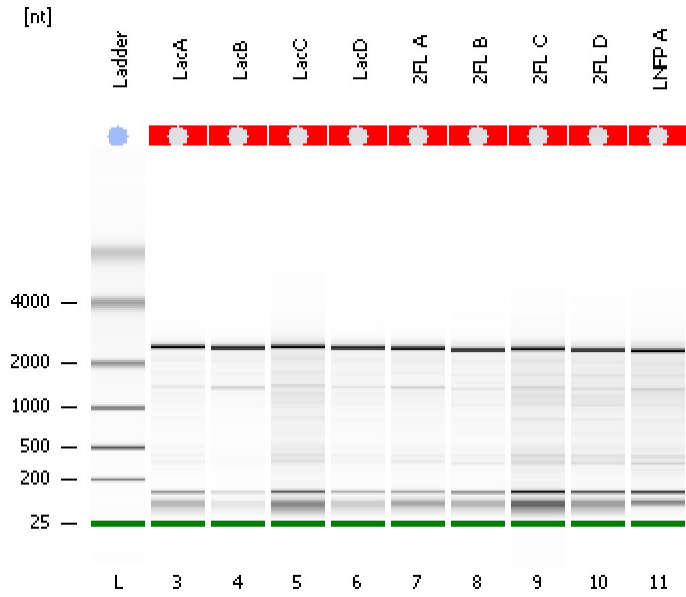


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
Modified: 10/10/2019 10:32:15 AM

Electrophoresis File Run Summary



Instrument Information:

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

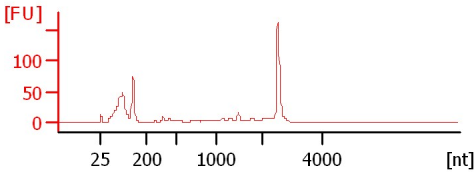
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

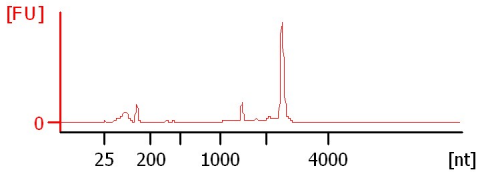
Chip Information:

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

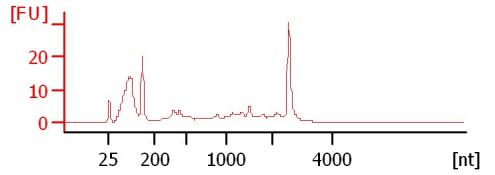
NextSeq160 RIN N/A **LacA**



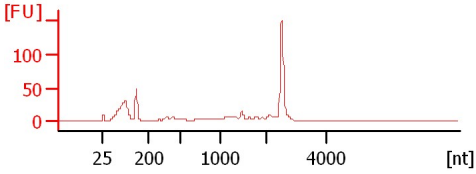
NextSeq160 RIN N/A **LacB**



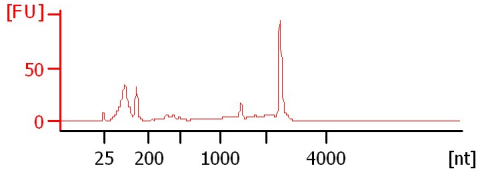
NextSeq160 RIN N/A **LacC**



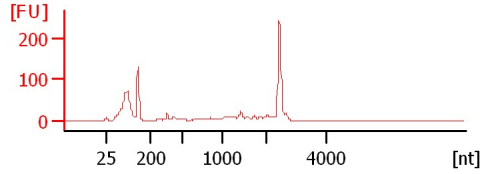
NextSeq160 RIN N/A **LacD**



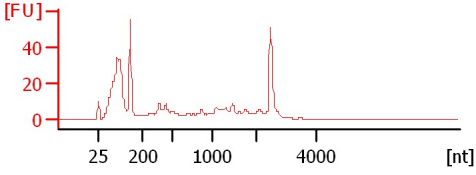
NextSeq160 RIN N/A **2FL A**



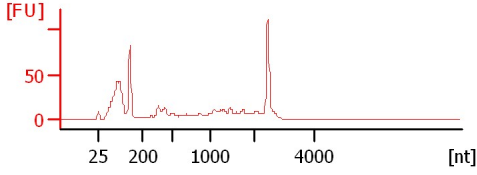
NextSeq160 RIN N/A **2FL B**



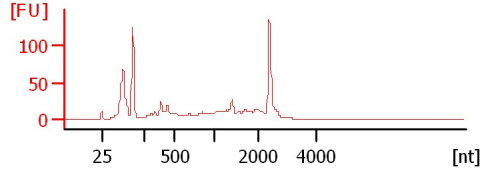
NextSeq160 RIN N/A **2FL C**



NextSeq160 RIN N/A **2FL D**



NextSeq160 RIN N/A **LNFP A**



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
Modified: 10/10/2019 10:32:15 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
LacA	NextSeq160	✓	RIN N/A	
LacB	NextSeq160	✓	RIN N/A	
LacC	NextSeq160	✓	RIN N/A	
LacD	NextSeq160	✓	RIN N/A	
2FL A	NextSeq160	✓	RIN N/A	
2FL B	NextSeq160	✓	RIN N/A	
2FL C	NextSeq160	✓	RIN N/A	
2FL D	NextSeq160	✓	RIN N/A	
LNFP A	NextSeq160	✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
Modified: 10/10/2019 10:32:15 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/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ μ l] : 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

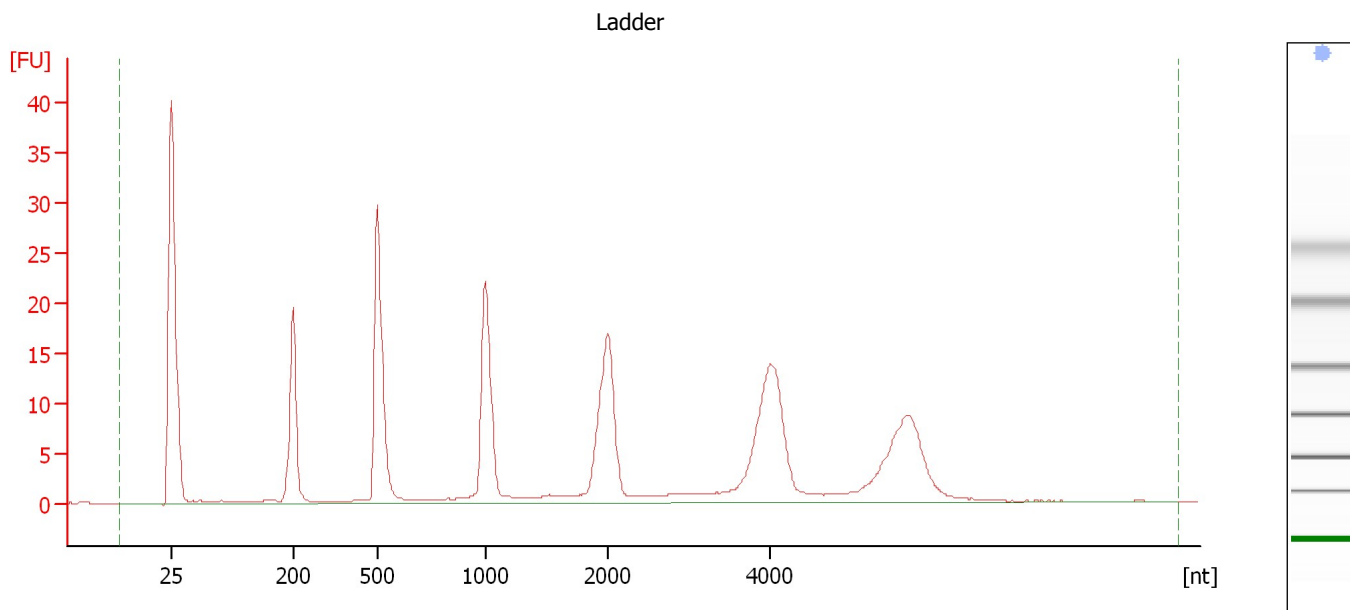
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
Modified: 10/10/2019 10:32:15 AM

Electropherogram Summary



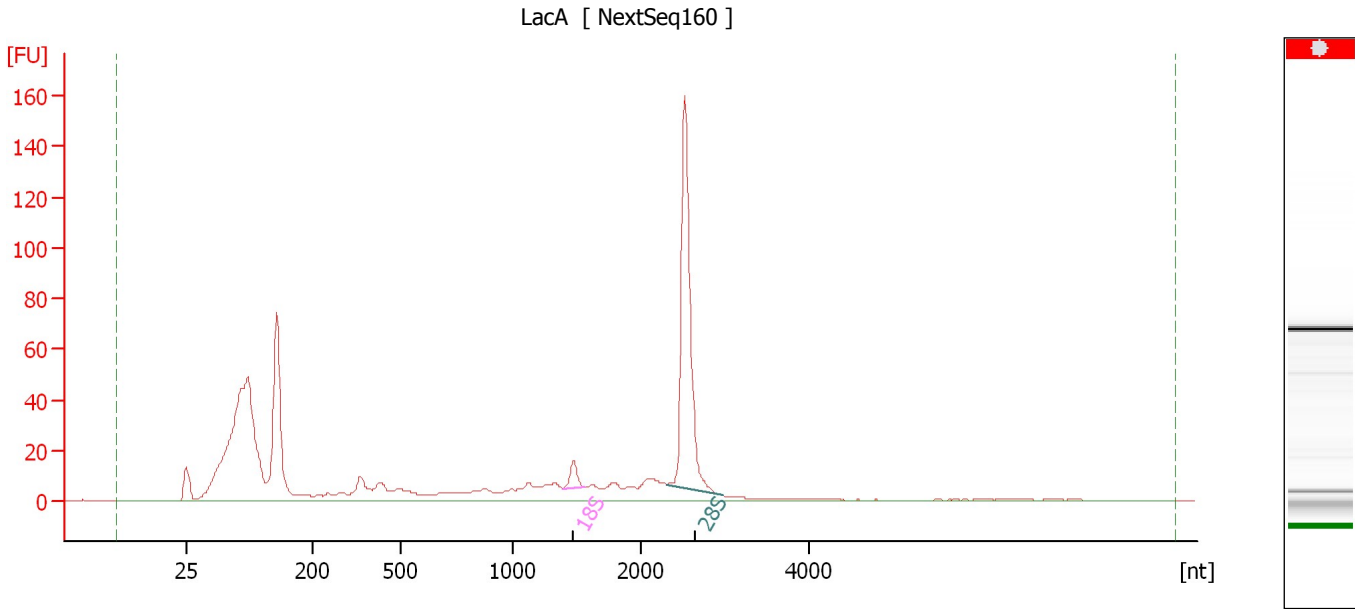
Overall Results for Ladder

RNA Area:	234.9	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
 Modified: 10/10/2019 10:32:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : LacA

RNA Area:	815.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3,472 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	16.1	Result Flagging Label:	RIN N/A

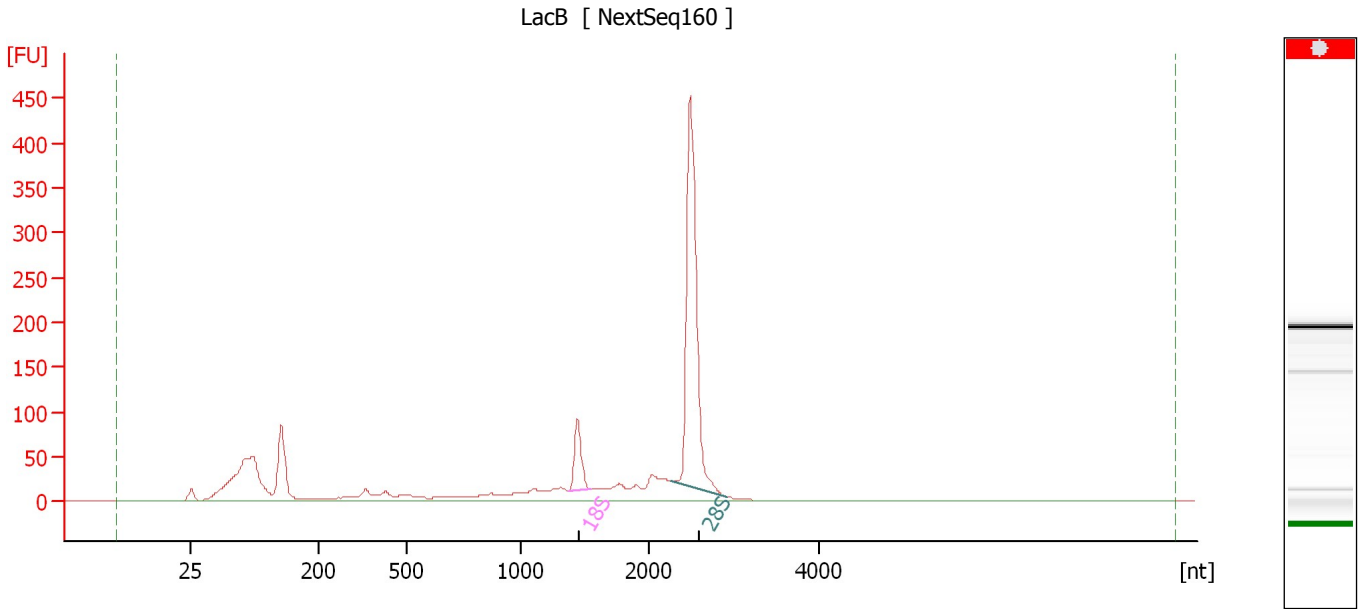
Fragment table for sample 3 : LacA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,398	1,565	10.4	1.3
28S	2,305	2,976	166.9	20.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
 Modified: 10/10/2019 10:32:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : LacB

RNA Area:	1,509.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6,428 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	6.7	Result Flagging Label:	RIN N/A

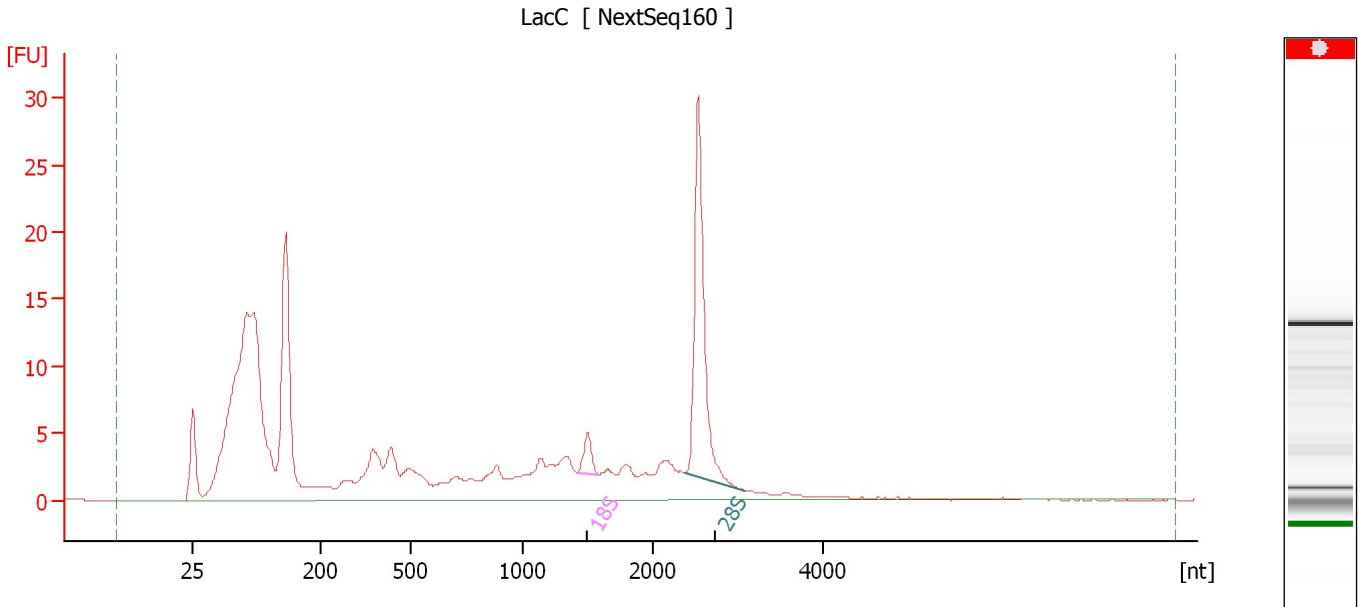
Fragment table for sample 4 : LacB

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,372	1,546	73.6	4.9
28S	2,268	2,921	489.8	32.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
 Modified: 10/10/2019 10:32:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : LacC

RNA Area:	267.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,138 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	10.3	Result Flagging Label:	RIN N/A

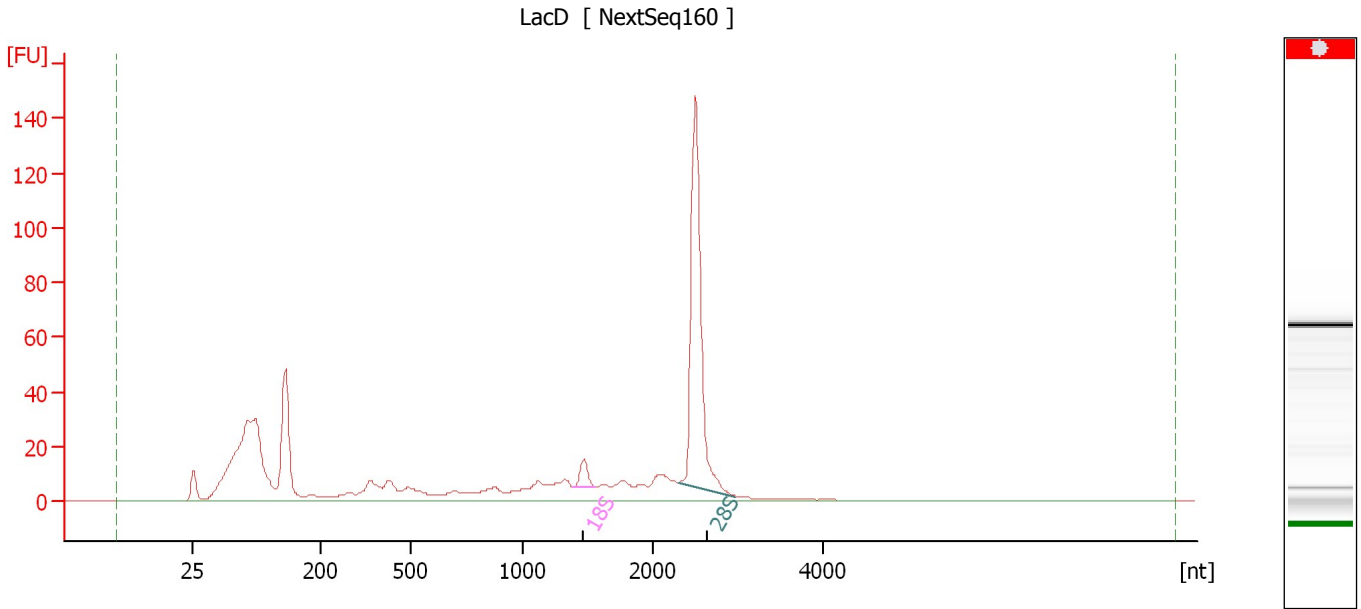
Fragment table for sample 5 : LacC

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,417	1,582	3.0	1.1
28S	2,381	3,081	31.3	11.7

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
 Modified: 10/10/2019 10:32:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : LacD

RNA Area:	679.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2,892 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	16.3	Result Flagging Label:	RIN N/A

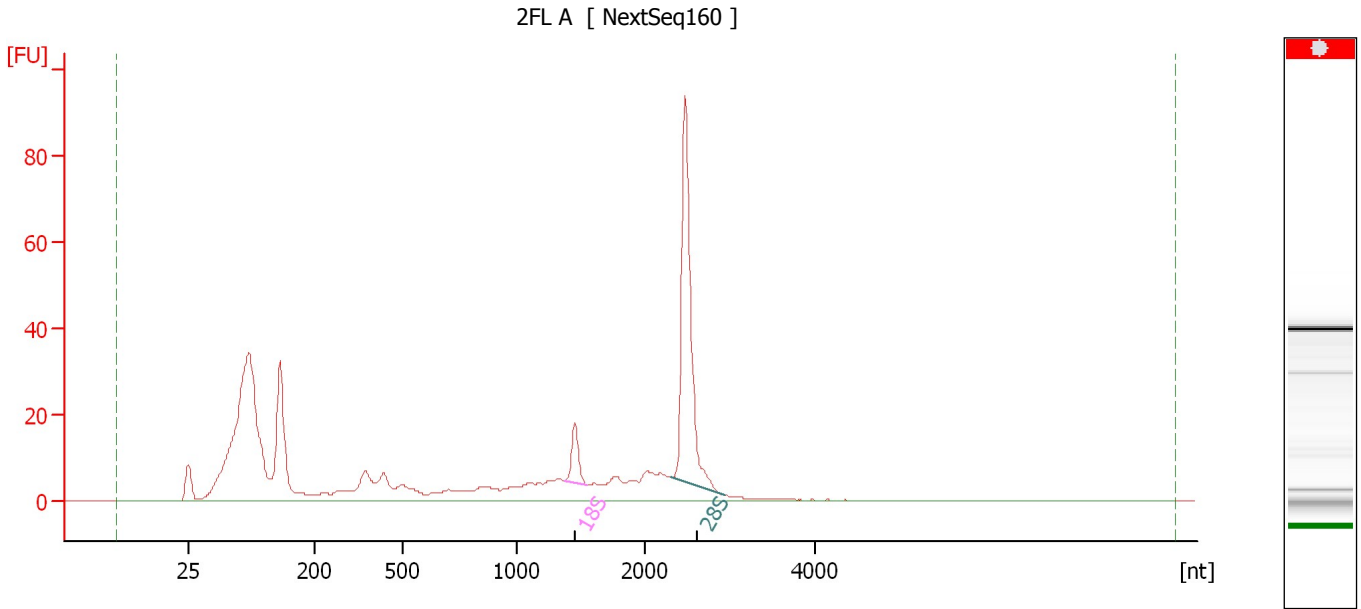
Fragment table for sample 6 : LacD

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,384	1,558	9.8	1.4
28S	2,294	2,969	158.9	23.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
 Modified: 10/10/2019 10:32:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 2FL A

RNA Area:	533.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2,273 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	7.8	Result Flagging Label:	RIN N/A

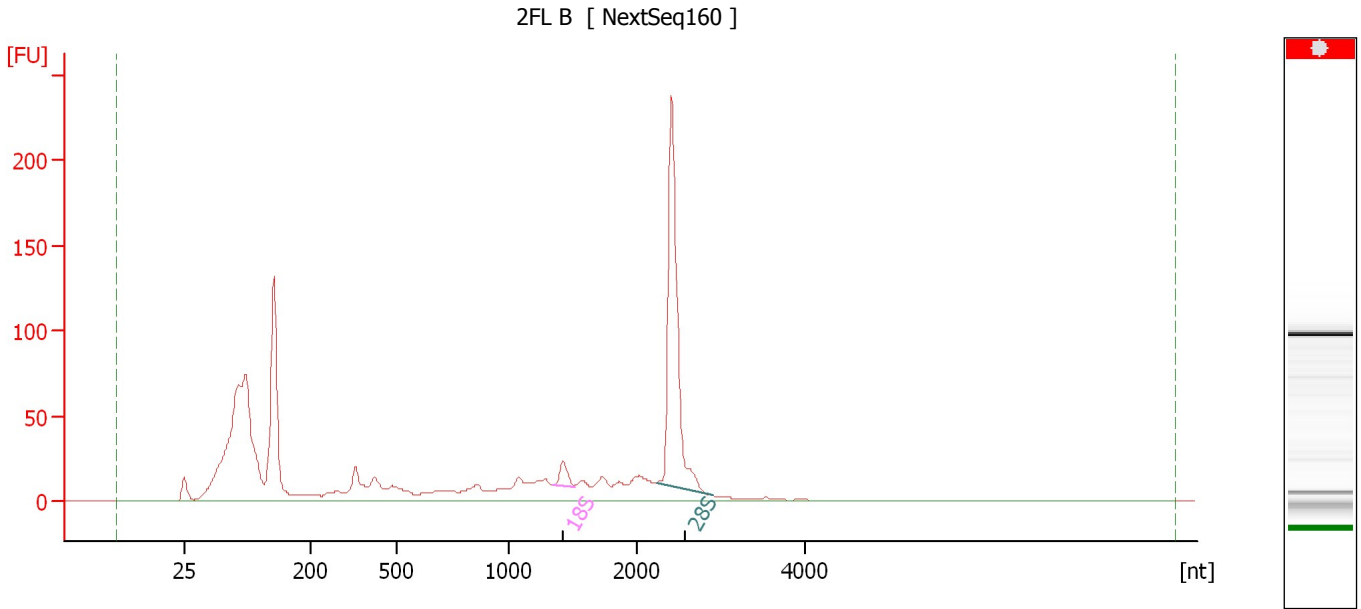
Fragment table for sample 7 : 2FL A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,385	1,543	12.6	2.4
28S	2,318	2,949	98.6	18.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
 Modified: 10/10/2019 10:32:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 2FL B

RNA Area:	1,289.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	5,488 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	16.9	Result Flagging Label:	RIN N/A

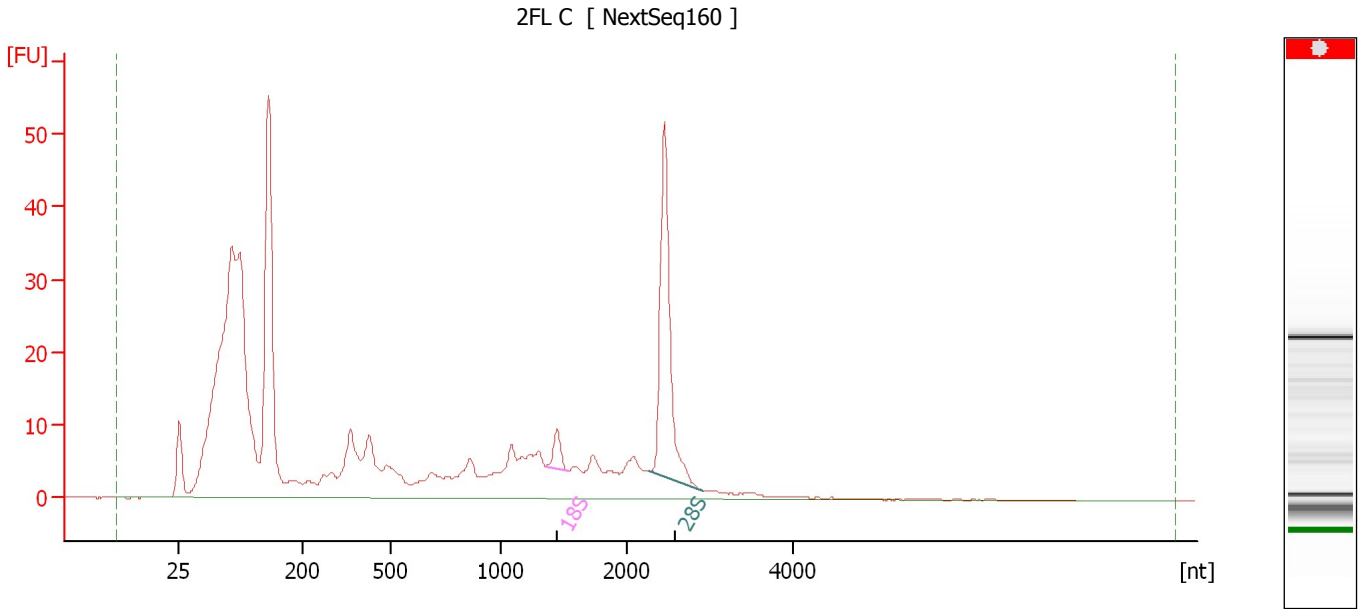
Fragment table for sample 8 : 2FL B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,344	1,512	14.5	1.1
28S	2,241	2,915	245.9	19.1

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
 Modified: 10/10/2019 10:32:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 2FL C

RNA Area:	571.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2,434 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	10.2	Result Flagging Label:	RIN N/A

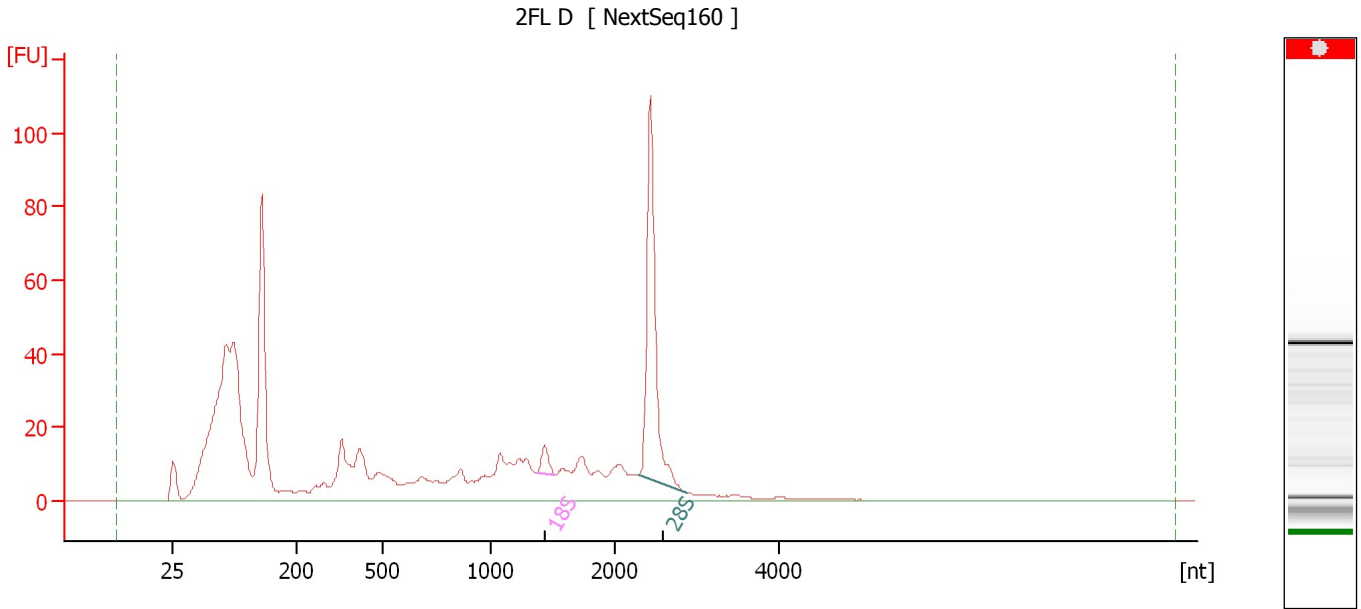
Fragment table for sample 9 : 2FL C

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,368	1,538	5.5	1.0
28S	2,278	2,934	55.7	9.7

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
 Modified: 10/10/2019 10:32:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 2FL D

RNA Area:	883.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3,761 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	13.8	Result Flagging Label:	RIN N/A

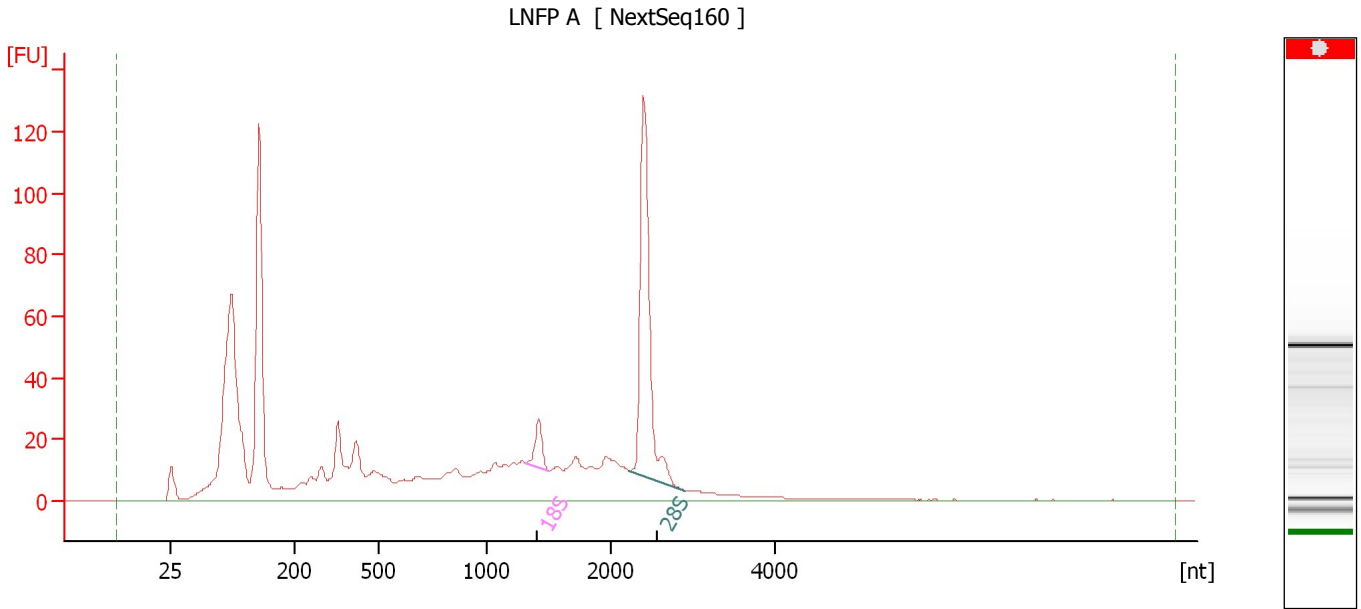
Fragment table for sample 10 : 2FL D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,358	1,512	7.8	0.9
28S	2,277	2,862	107.7	12.2

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
 Modified: 10/10/2019 10:32:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : LNFP A

RNA Area:	1,066.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	4,539 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	9.0	Result Flagging Label:	RIN N/A

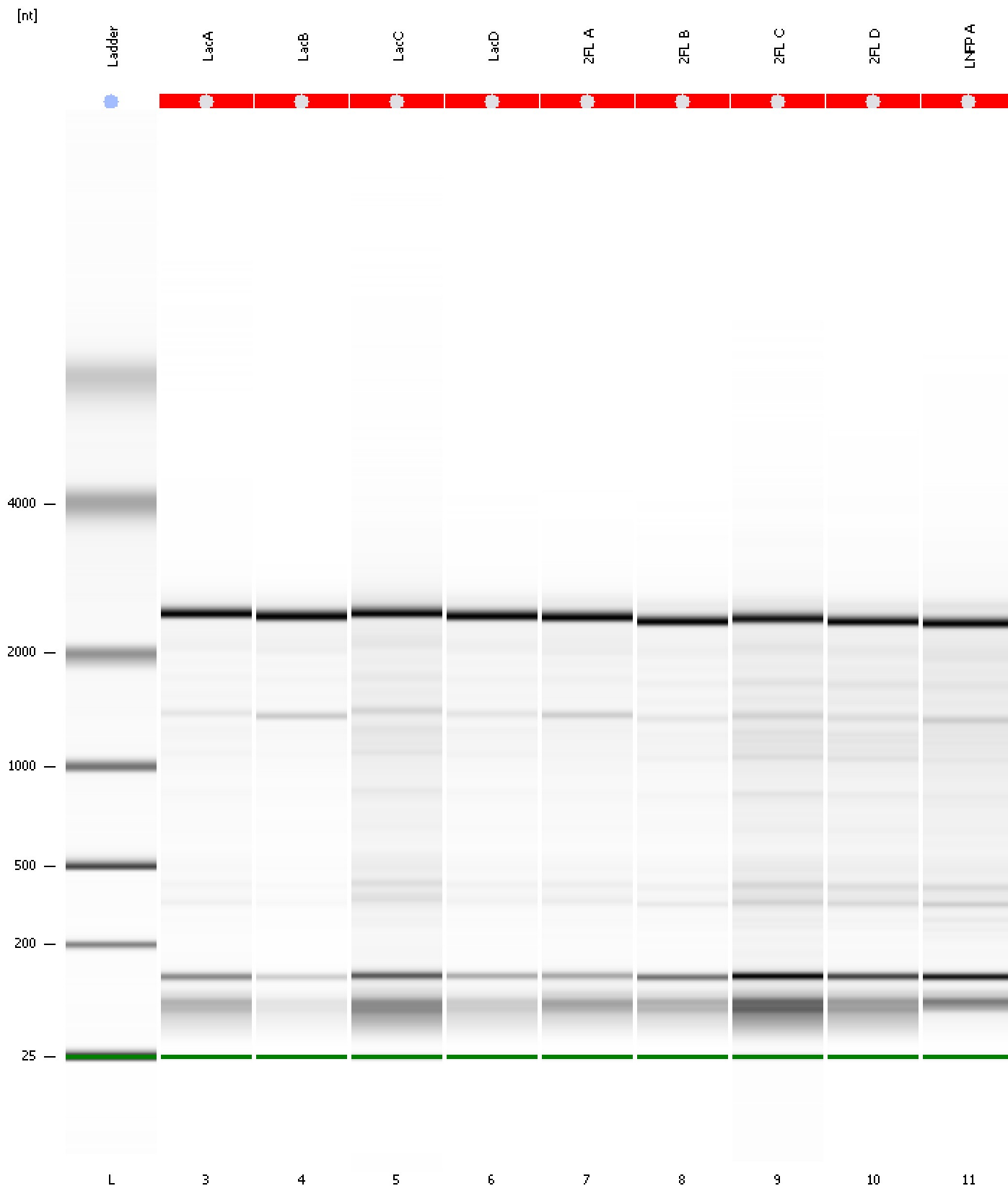
Fragment table for sample 11 : LNFP A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,302	1,492	15.1	1.4
28S	2,211	2,891	135.4	12.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
Modified: 10/10/2019 10:32:15 AM

Gel Image

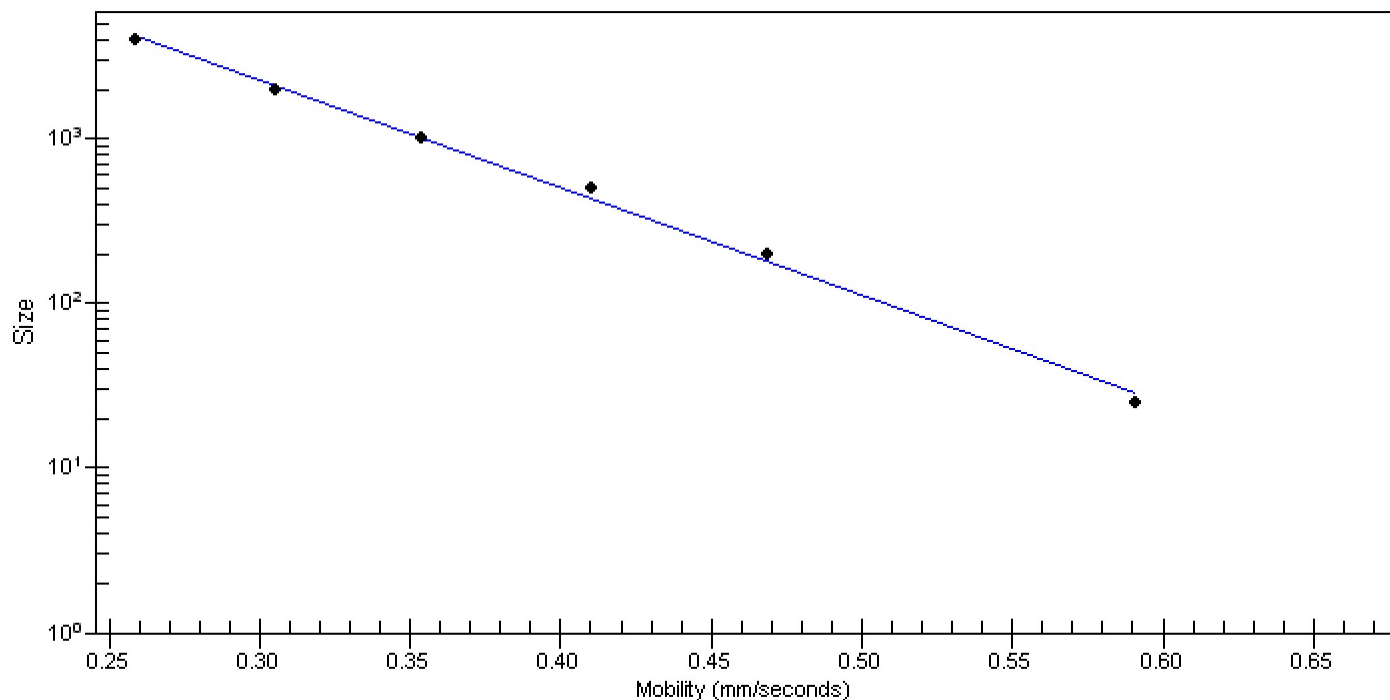


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
Modified: 10/10/2019 10:32:15 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... expert\data\2019-10-10\2019-10-10_001_NextSeq160_RNAQC.xad

Created: 10/10/2019 10:01:50 AM
 Modified: 10/10/2019 10:32:15 AM

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		10/10/2019 10:24:46 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\2019-10-10\2019-10-10_001.xad)		Instrument	Run		10/10/2019 10:01:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		10/10/2019 10:01:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/10/2019 10:01:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/10/2019 10:01:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		10/10/2019 10:01:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/10/2019 10:01:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/10/2019 10:01:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1