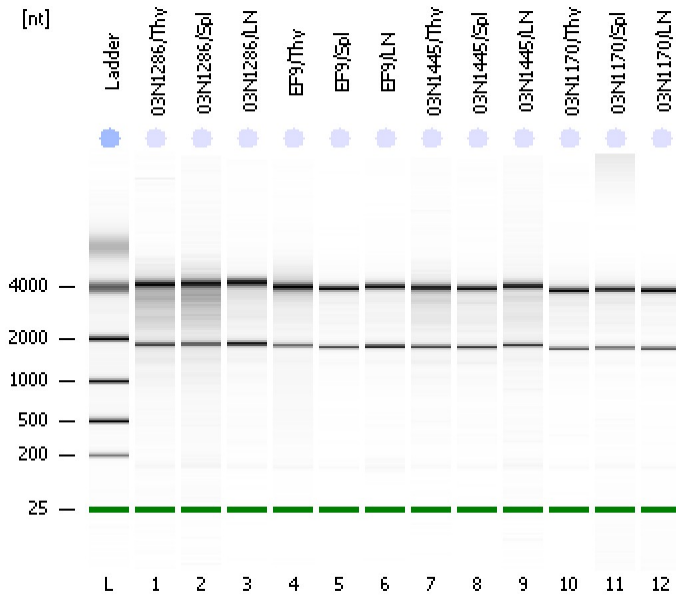


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

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

Assay Class: Eukaryote Total RNA Nano

Version: 2.6

Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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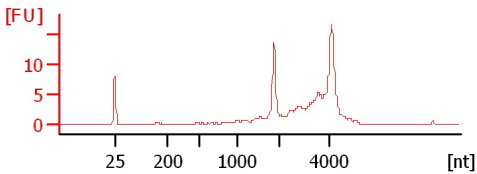
Chip Information:

Chip Lot #:

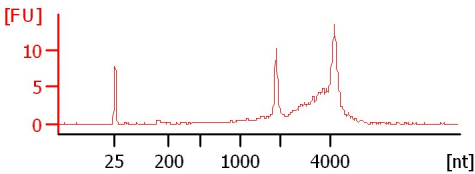
Reagent Kit Lot #:

Chip Comments:

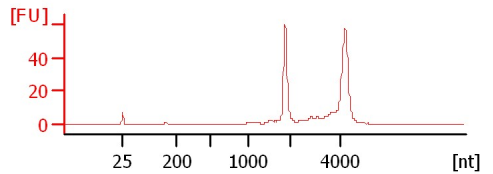
03N1286/Thy
RIN: 8.30



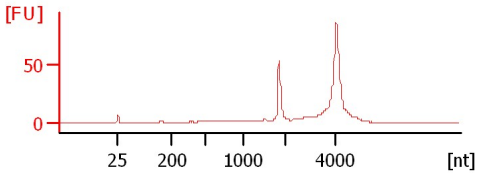
03N1286/Spl
RIN: 8



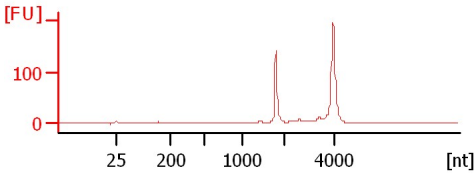
03N1286/LN
RIN: 9.50



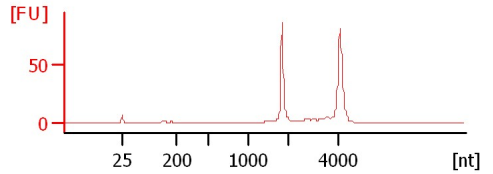
EF9/Thy
Submission form says EF6/Thy
RIN: 9.10



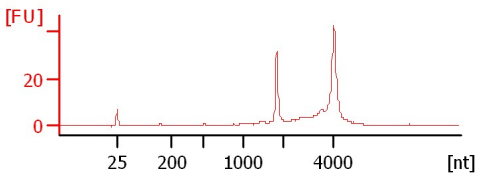
EF9/Spl
Submission form says EF6/Spl
RIN: 10



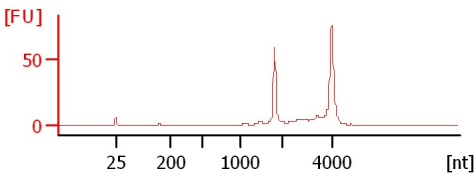
EF9/LN
Submission form says EF6/LN
RIN: 9.60



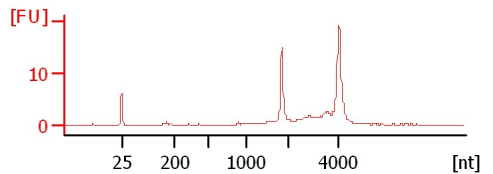
03N1445/Thy
RIN: 9.10



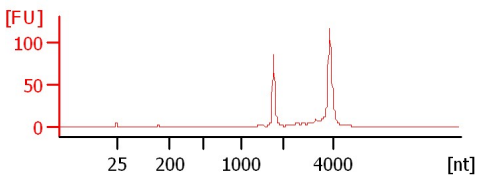
03N1445/Spl
RIN: 9.30



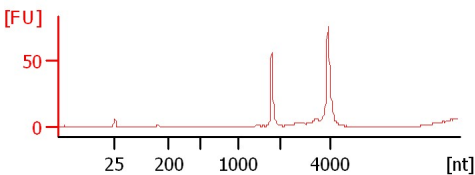
03N1445/LN
RIN: 9.20



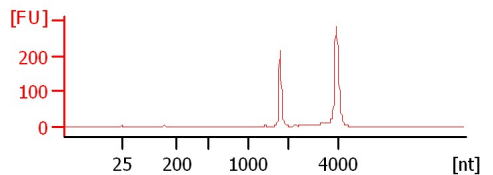
03N1170/Thy
RIN: 9.90



03N1170/Spl
RIN: 10



03N1170/LN
RIN: 10



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
03N1286/Thy		✓	RIN: 8.30	
03N1286/Spl		✓	RIN:8	
03N1286/LN		✓	RIN: 9.50	
EF9/Thy	Submission form says EF6/Thy	✓	RIN: 9.10	
EF9/Spl	Submission form says EF6/Spl	✓	RIN:10	
EF9/LN	Submission form says EF6/LN	✓	RIN: 9.60	
03N1445/Thy		✓	RIN: 9.10	
03N1445/Spl		✓	RIN: 9.30	
03N1445/LN		✓	RIN: 9.20	
03N1170/Thy		✓	RIN: 9.90	
03N1170/Spl		✓	RIN:10	
03N1170/LN		✓	RIN:10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

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

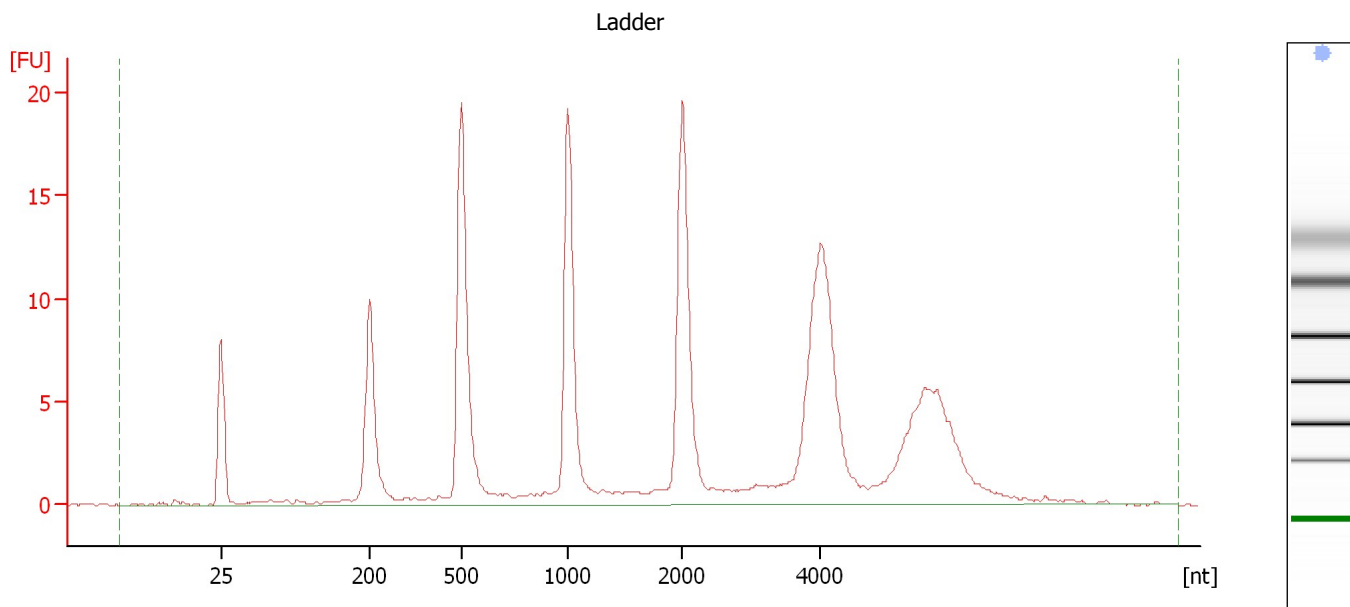
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Electropherogram Summary



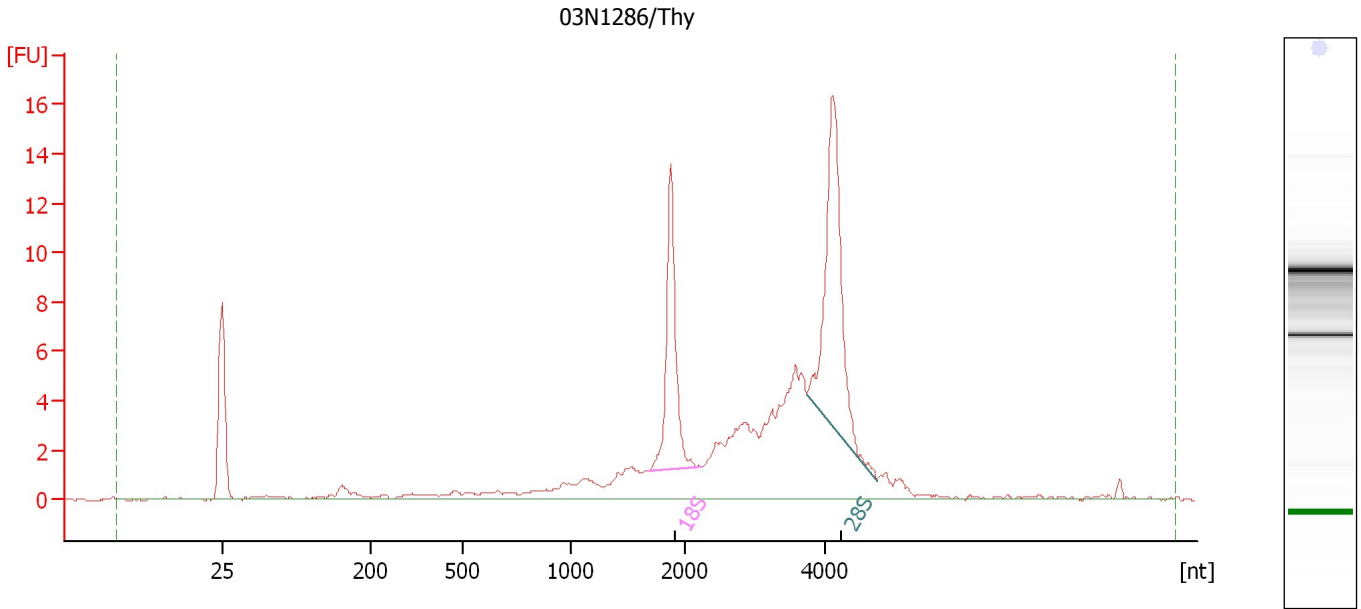
Overall Results for Ladder

RNA Area:	184.5	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 03N1286/Thy

RNA Area: 106.2 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 86 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 8.30

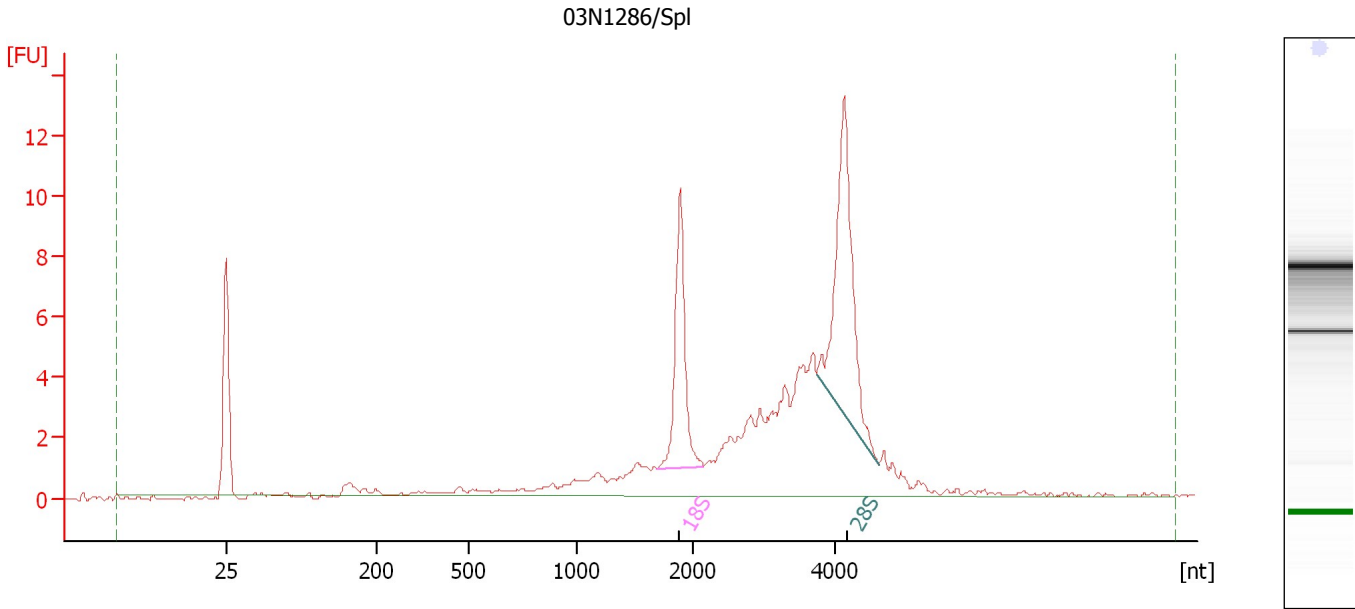
Fragment table for sample 1 : 03N1286/Thy

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,678	2,234	13.5	12.8
28S	3,732	4,742	21.3	20.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 03N1286/Spl

RNA Area: 88.4 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 72 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN:8

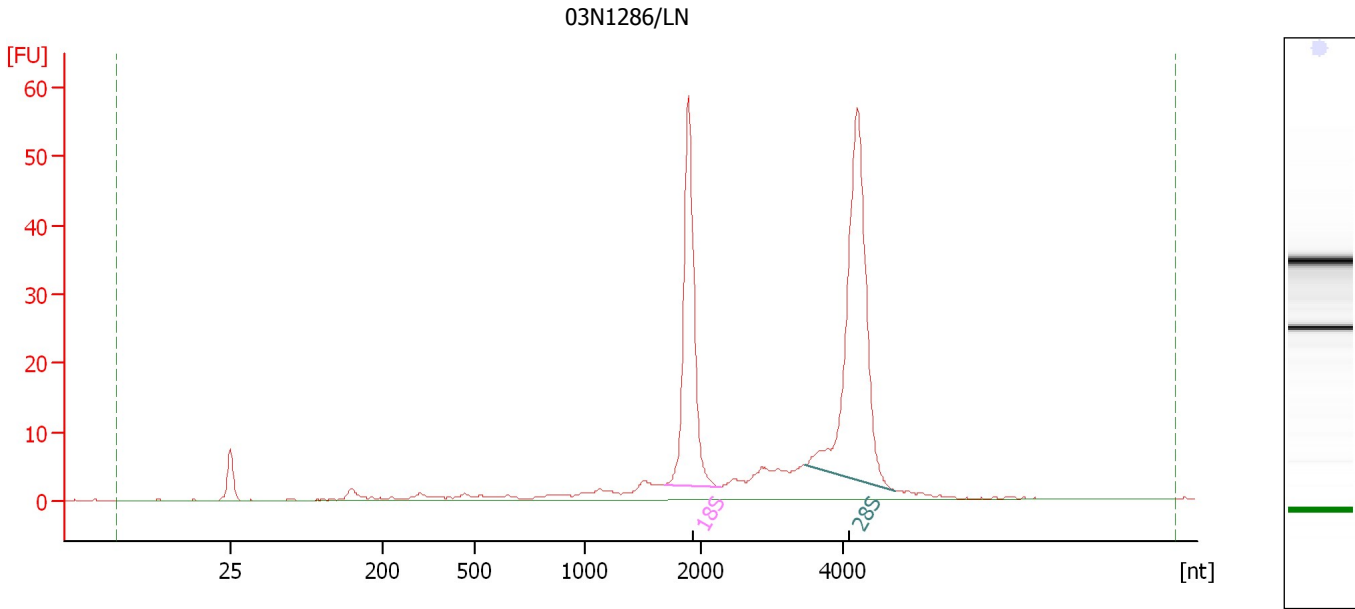
Fragment table for sample 2 : 03N1286/Spl

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,693	2,148	10.3	11.6
28S	3,755	4,635	17.1	19.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 03N1286/LN

RNA Area:	279.0	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	227 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.50

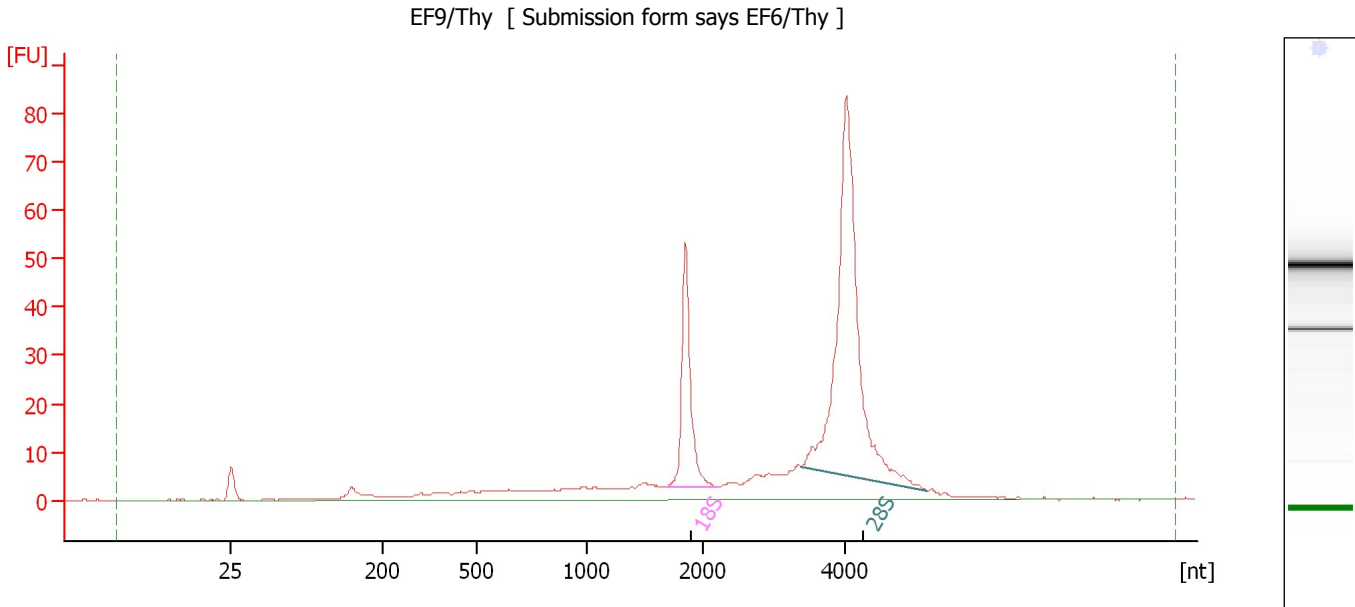
Fragment table for sample 3 : 03N1286/LN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,682	2,289	68.3	24.5
28S	3,462	4,741	102.9	36.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
 Modified: 9/24/2014 2:37:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : EF9/Thy

RNA Area:	385.9	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	314 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.0	Result Flagging Label:	RIN: 9.10

Fragment table for sample 4 : EF9/Thy

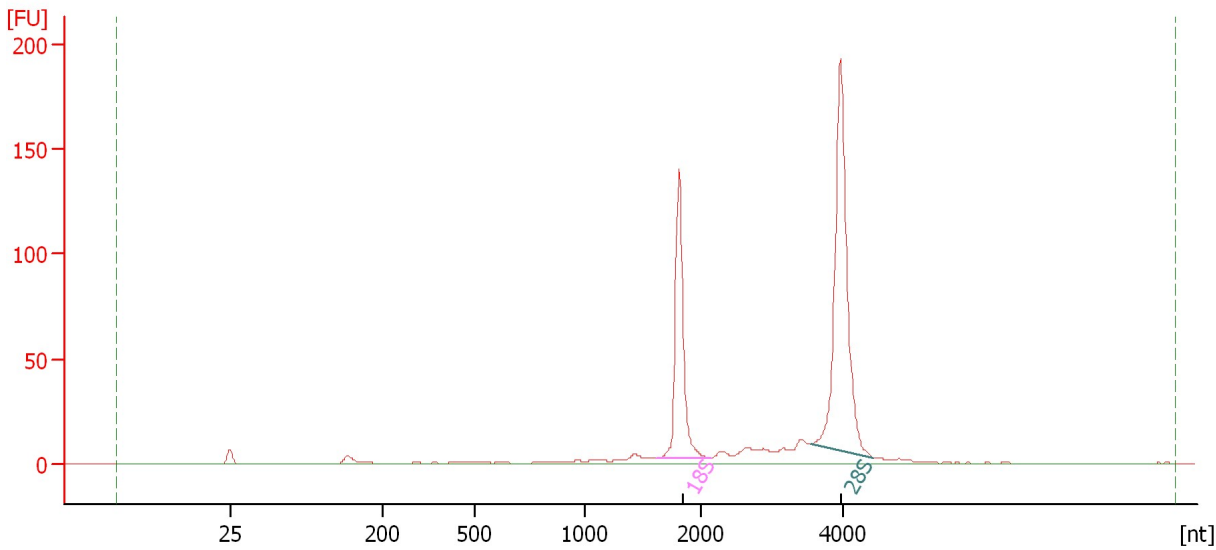
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,683	2,185	52.5	13.6
28S	3,386	5,142	159.9	41.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Electropherogram Summary Continued ...

EF9/Spl [Submission form says EF6/Spl]



Overall Results for sample 5 : EF9/Spl

RNA Area: 507.9 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 413 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN:10

Fragment table for sample 5 : EF9/Spl

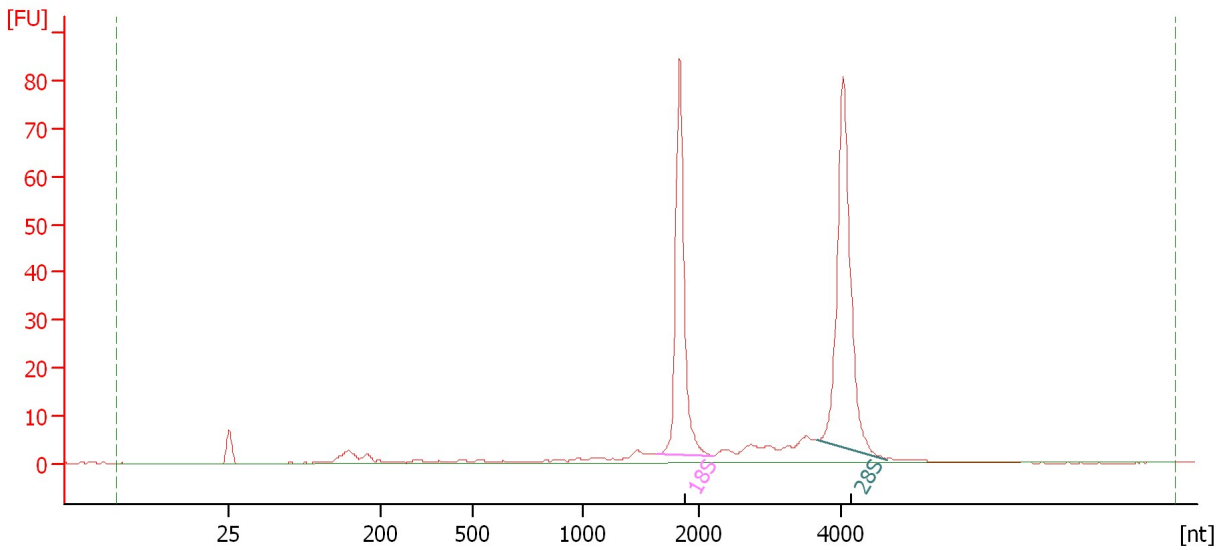
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	2,123	125.2	24.6
28S	3,537	4,410	228.5	45.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Electropherogram Summary Continued ...

EF9/LN [Submission form says EF6/LN]



Overall Results for sample 6 : EF9/LN

RNA Area: 279.8 RNA Integrity Number (RIN): 9.6 (B.02.08)
RNA Concentration: 228 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 9.60

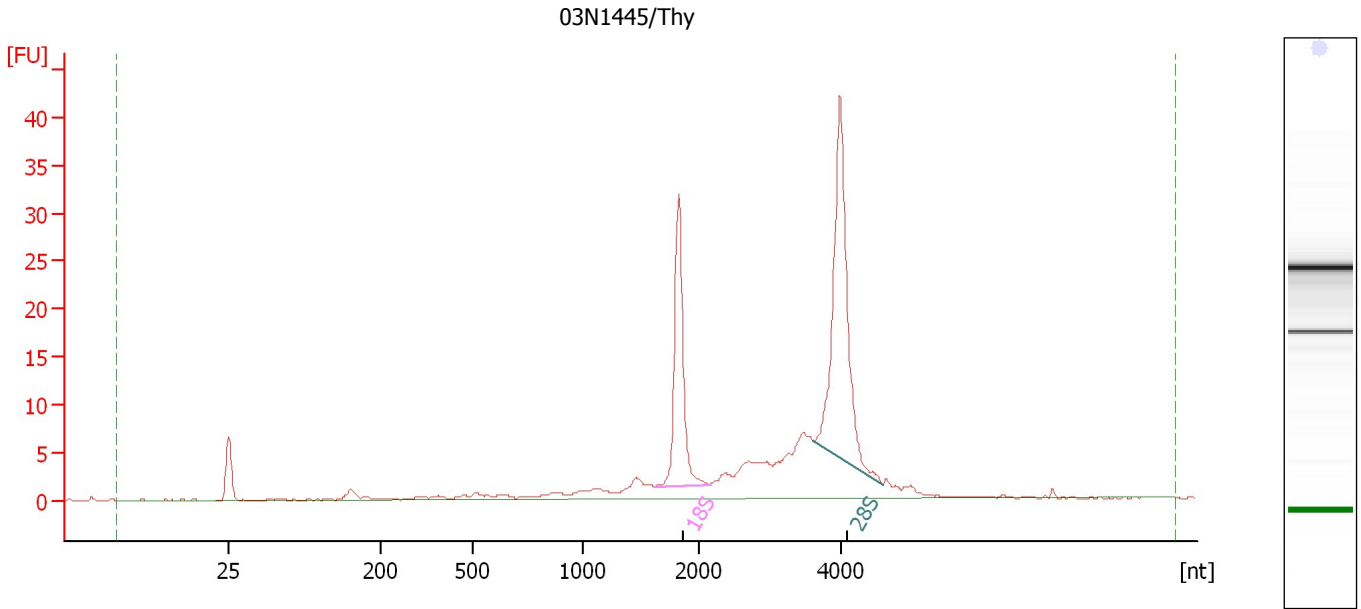
Fragment table for sample 6 : EF9/LN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	2,197	81.8	29.2
28S	3,659	4,639	104.0	37.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 03N1445/Thy

RNA Area:	179.0	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	146 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.10

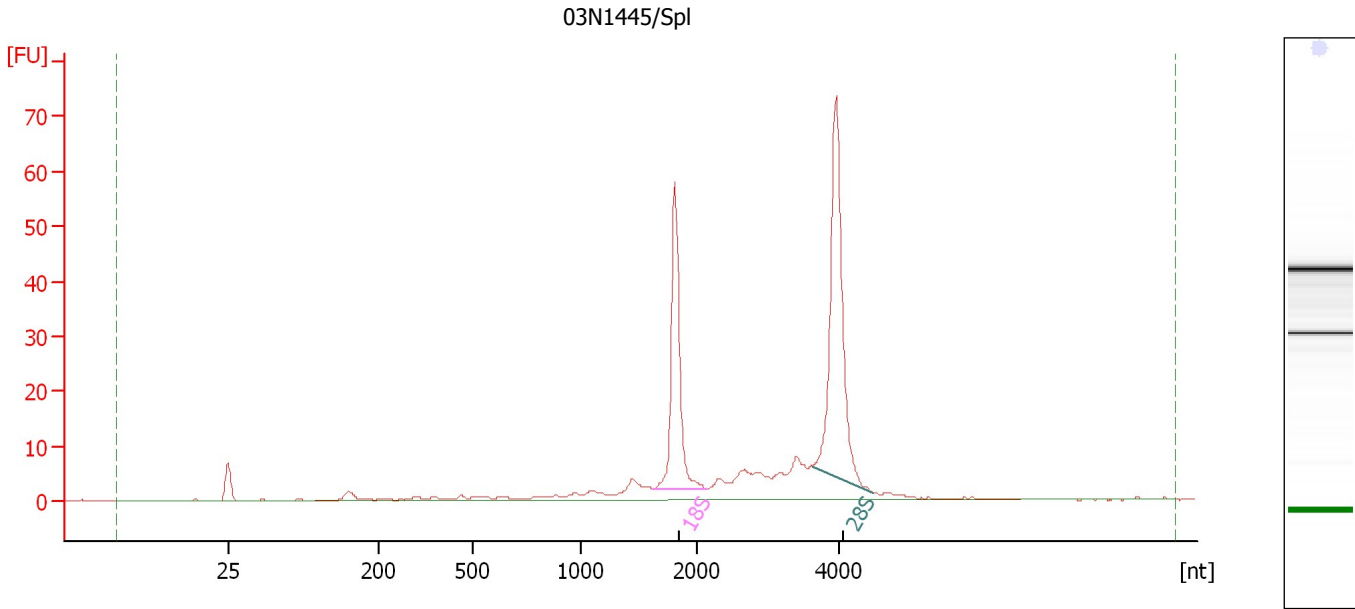
Fragment table for sample 7 : 03N1445/Thy

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	2,152	29.6	16.5
28S	3,614	4,579	52.3	29.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 03N1445/Spl

RNA Area: 242.2 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 197 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.30

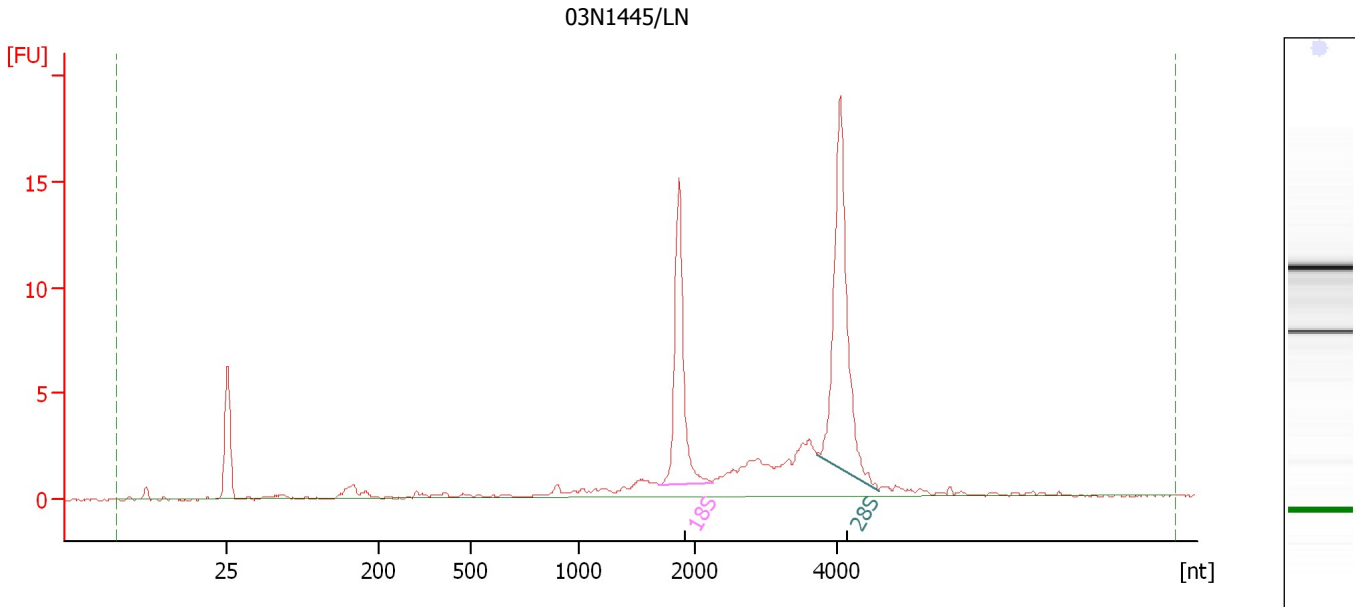
Fragment table for sample 8 : 03N1445/Spl

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,623	2,135	52.8	21.8
28S	3,631	4,477	81.8	33.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 03N1445/LN

RNA Area:	74.4	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	61 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.20

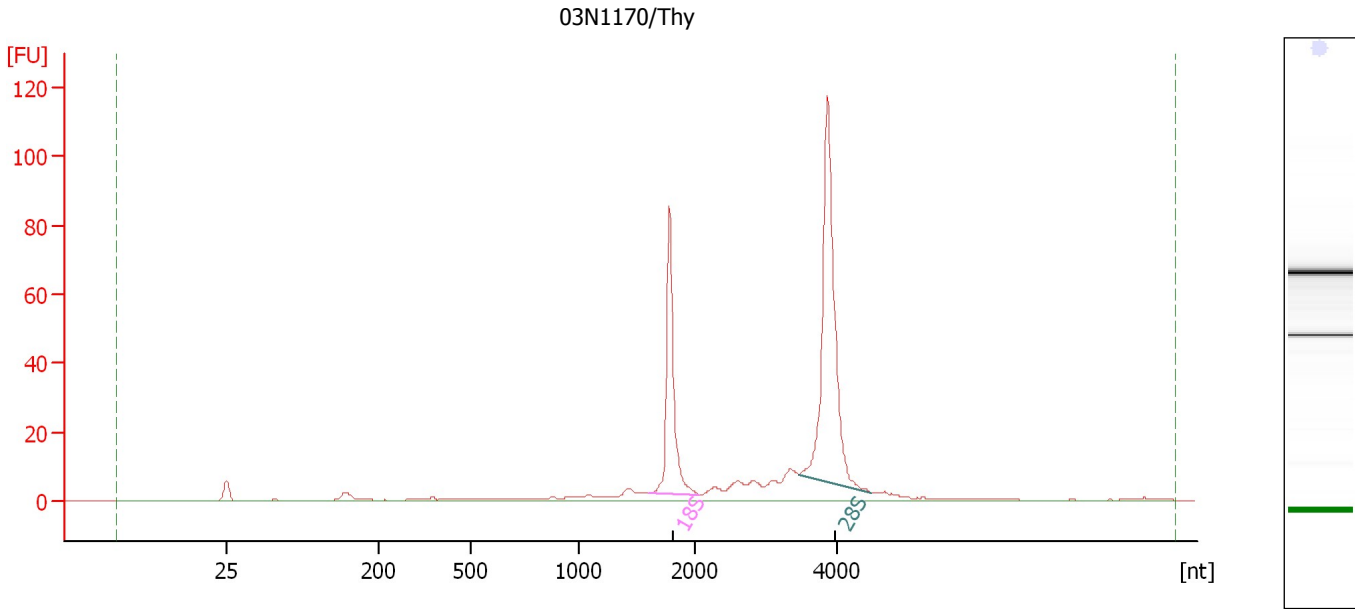
Fragment table for sample 9 : 03N1445/LN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,695	2,240	14.1	18.9
28S	3,723	4,601	22.7	30.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 03N1170/Thy

RNA Area: 342.0 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 278 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.90

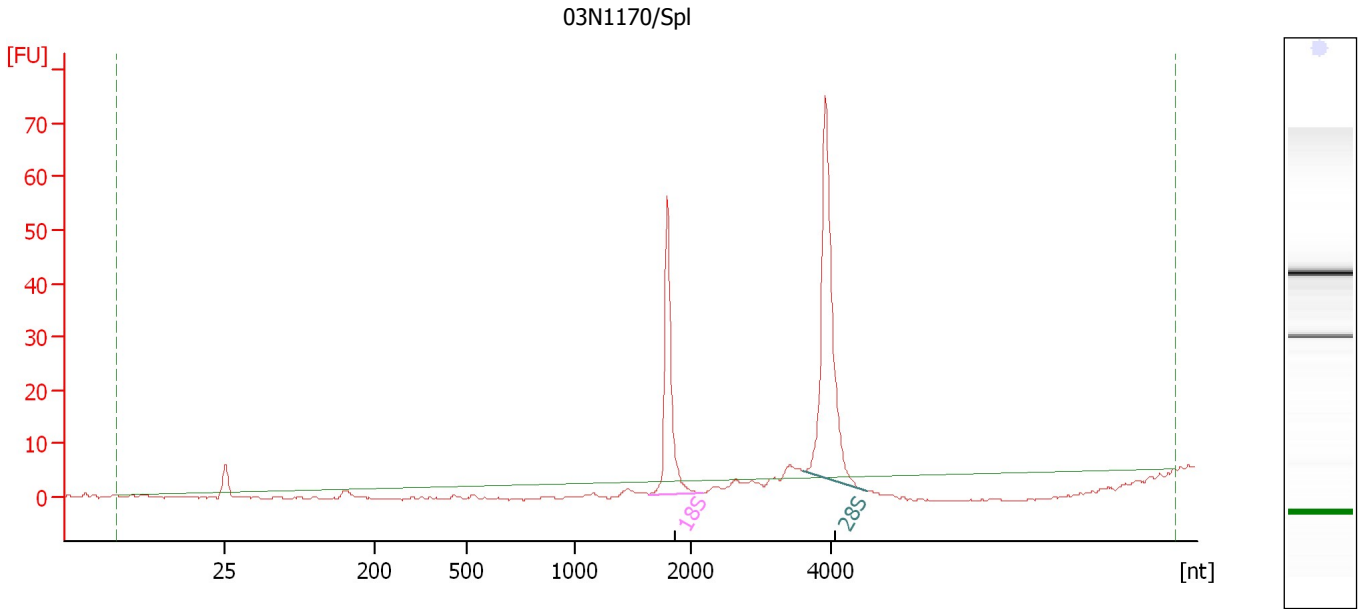
Fragment table for sample 10 : 03N1170/Thy

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,594	2,058	71.8	21.0
28S	3,481	4,480	137.5	40.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
 Modified: 9/24/2014 2:37:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 03N1170/Spl

RNA Area:	120.8	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	98 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN:10

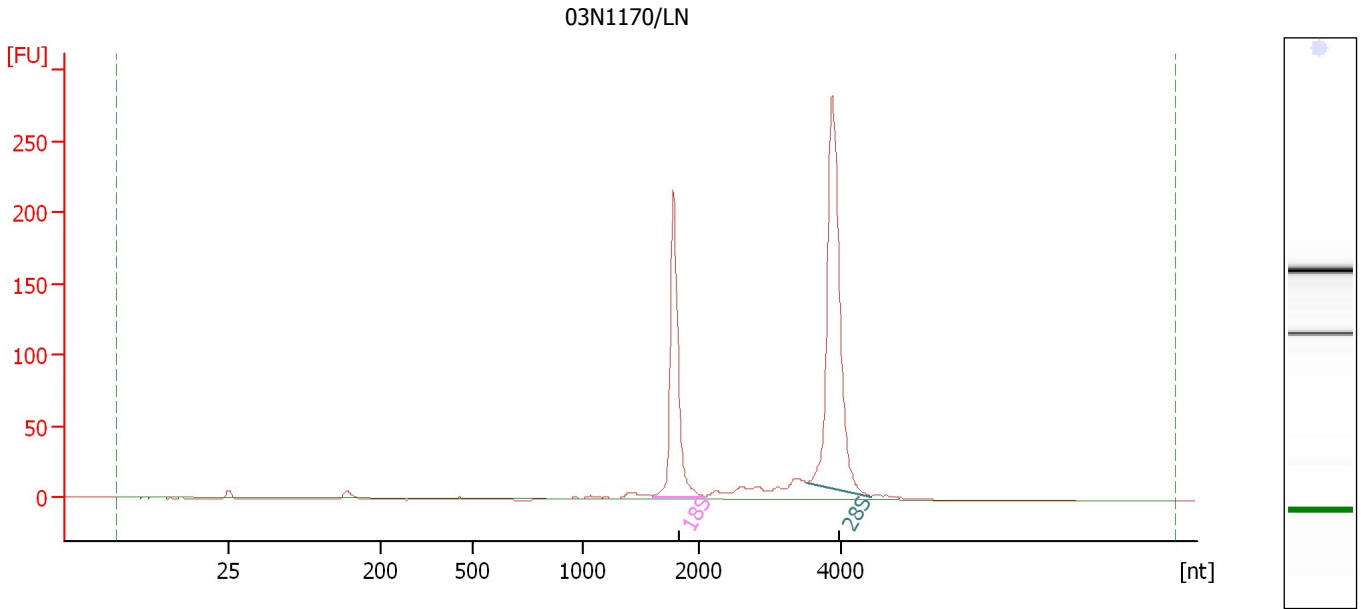
Fragment table for sample 11 : 03N1170/Spl

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	2,177	46.4	38.4
28S	3,590	4,487	81.8	67.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 03N1170/LN

RNA Area: 708.0 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 576 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN:10

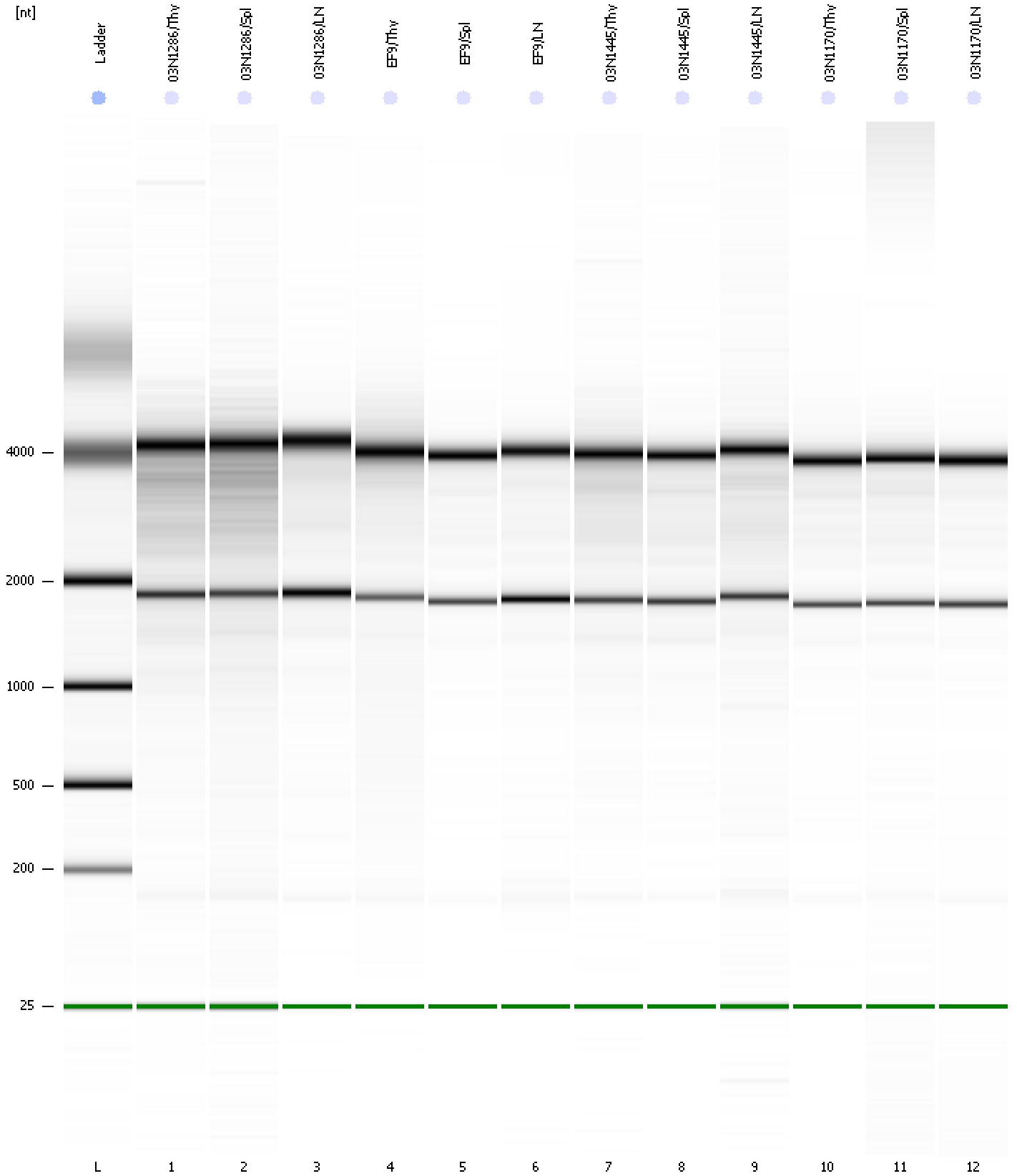
Fragment table for sample 12 : 03N1170/LN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,598	2,092	196.2	27.7
28S	3,524	4,413	347.9	49.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Gel Image

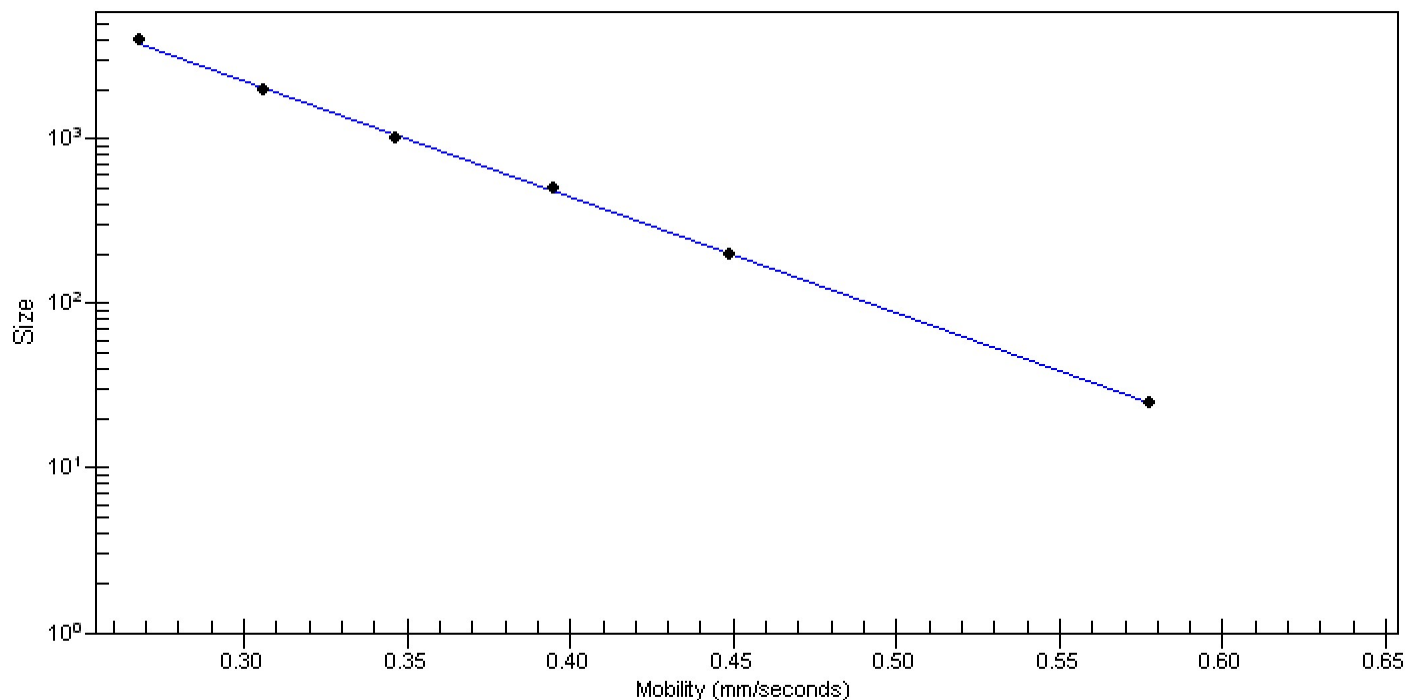


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
Modified: 9/24/2014 2:37:56 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad

Created: 9/24/2014 2:14:04 PM
 Modified: 9/24/2014 2:37:56 PM

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		9/24/2014 2:37:54 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-24\2014-09-24_005.xad)		Instrument	Run		9/24/2014 2:14:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/24/2014 2:14:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/24/2014 2:14:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/24/2014 2:14:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/24/2014 2:14:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/24/2014 2:14:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/24/2014 2:14:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1