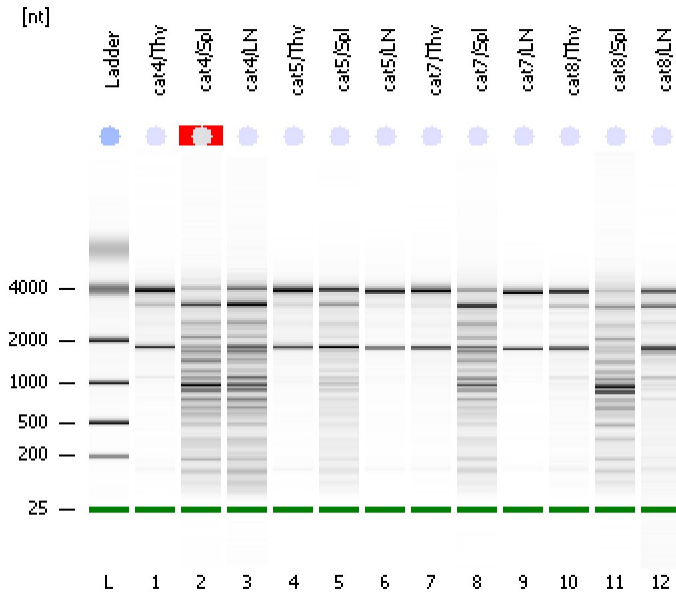


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
Modified: 9/26/2014 9:06:45 AM

Electrophoresis File Run Summary



Instrument Information:

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

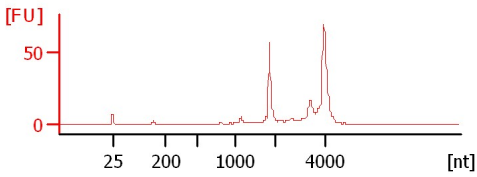
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

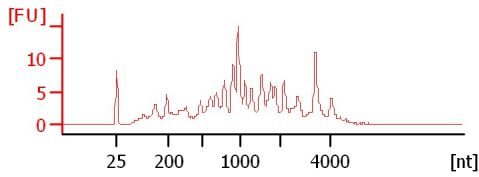
Chip Information:

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

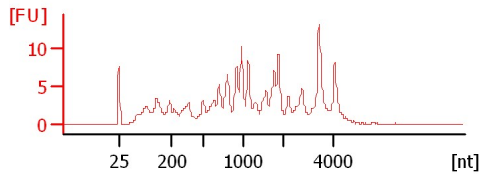
cat4/Thy RIN:9



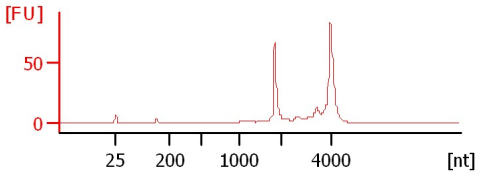
cat4/Spl RIN N/A



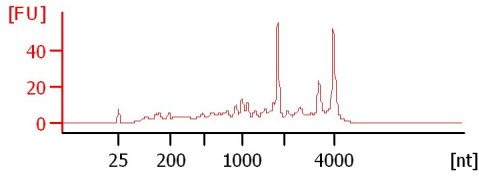
cat4/LN RIN: 4.50



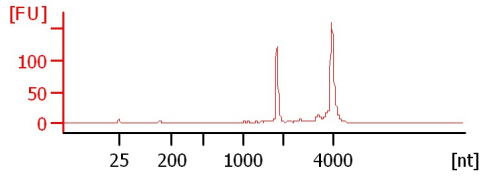
cat5/Thy RIN: 9.30



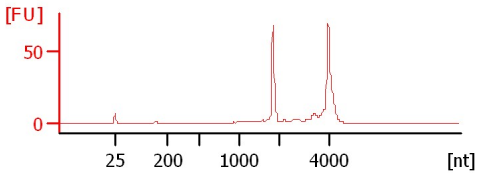
cat5/Spl RIN: 6.40



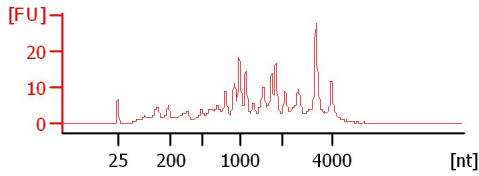
cat5/LN RIN: 9.60



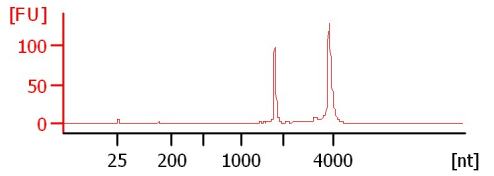
cat7/Thy RIN: 9.10



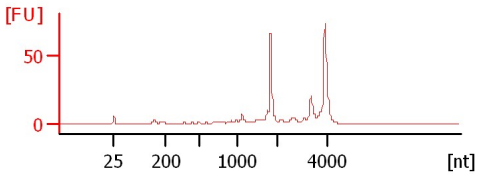
cat7/Spl RIN: 4.70



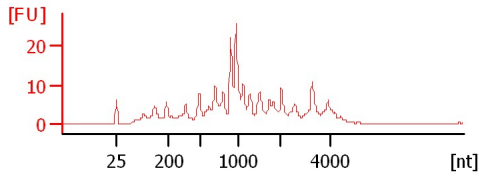
cat7/LN RIN: 9.90



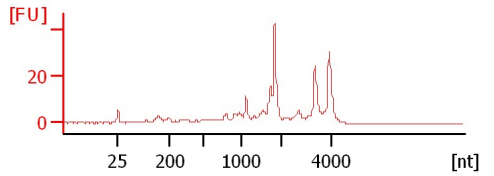
cat8/Thy RIN: 8.20



cat8/Spl RIN:3



cat8/LN RIN: 7.10



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
Modified: 9/26/2014 9:06:45 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
cat4/Thy		✓	RIN:9	
cat4/Spl		✓	RIN N/A	
cat4/LN		✓	RIN: 4.50	
cat5/Thy		✓	RIN: 9.30	
cat5/Spl		✓	RIN: 6.40	
cat5/LN		✓	RIN: 9.60	
cat7/Thy		✓	RIN: 9.10	
cat7/Spl		✓	RIN: 4.70	
cat7/LN		✓	RIN: 9.90	
cat8/Thy		✓	RIN: 8.20	
cat8/Spl		✓	RIN:3	
cat8/LN		✓	RIN: 7.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
Modified: 9/26/2014 9:06:45 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

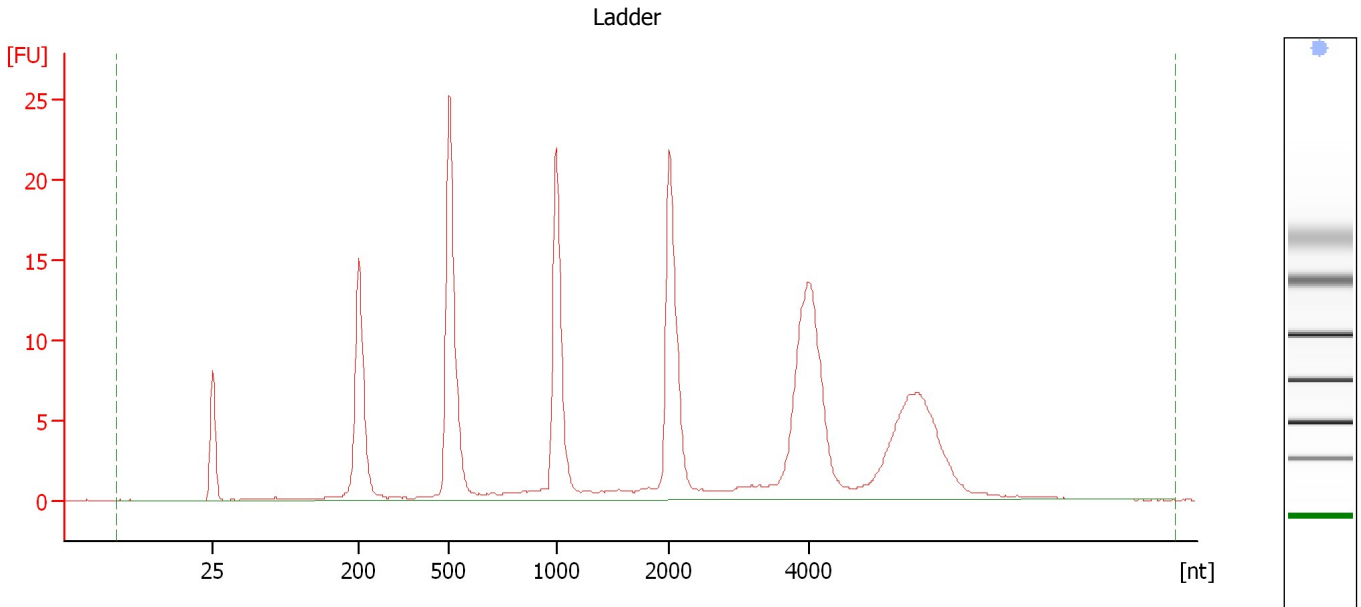
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
Modified: 9/26/2014 9:06:45 AM

Electropherogram Summary



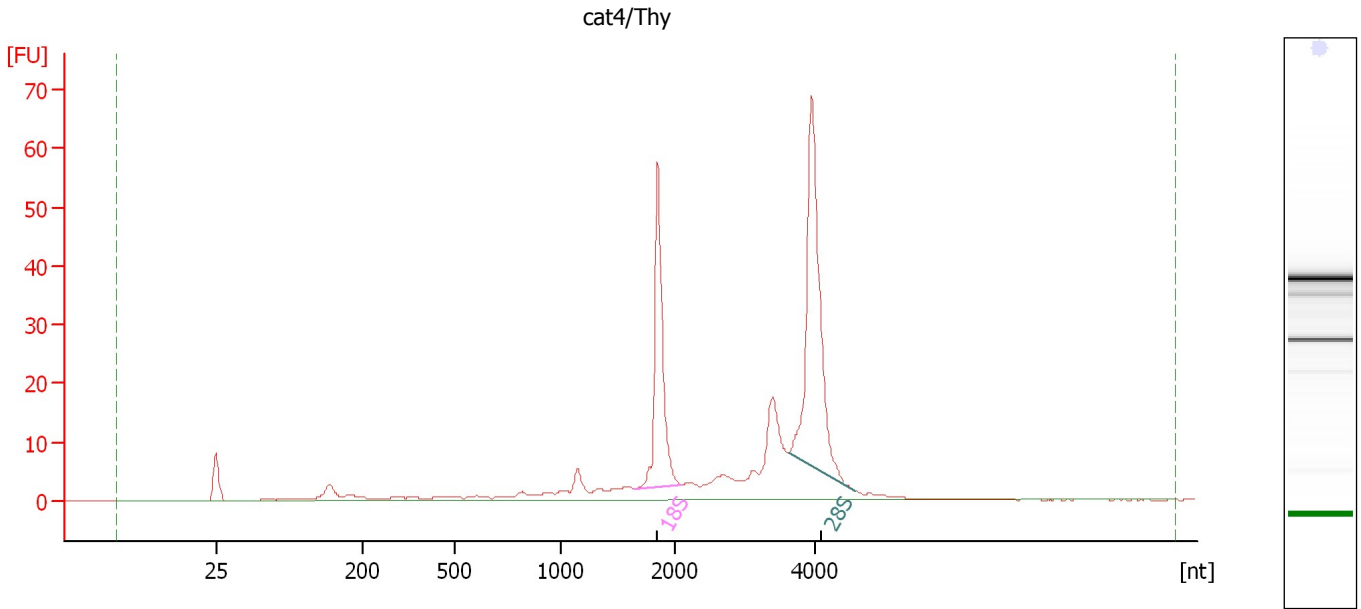
Overall Results for Ladder

RNA Area:	204.7	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\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
Modified: 9/26/2014 9:06:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : cat4/Thy

RNA Area: 278.1 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 204 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN:9

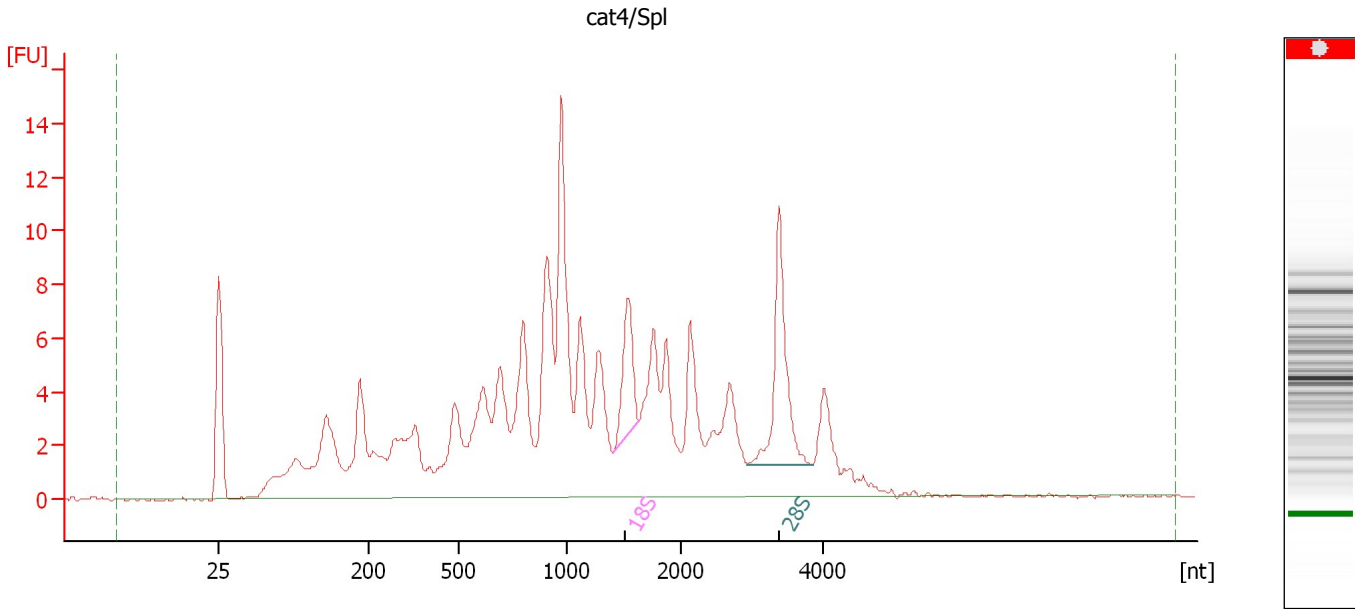
Fragment table for sample 1 : cat4/Thy

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	2,081	50.3	18.1
28S	3,610	4,573	85.9	30.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
Modified: 9/26/2014 9:06:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : cat4/Spl

RNA Area:	209.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	153 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN N/A

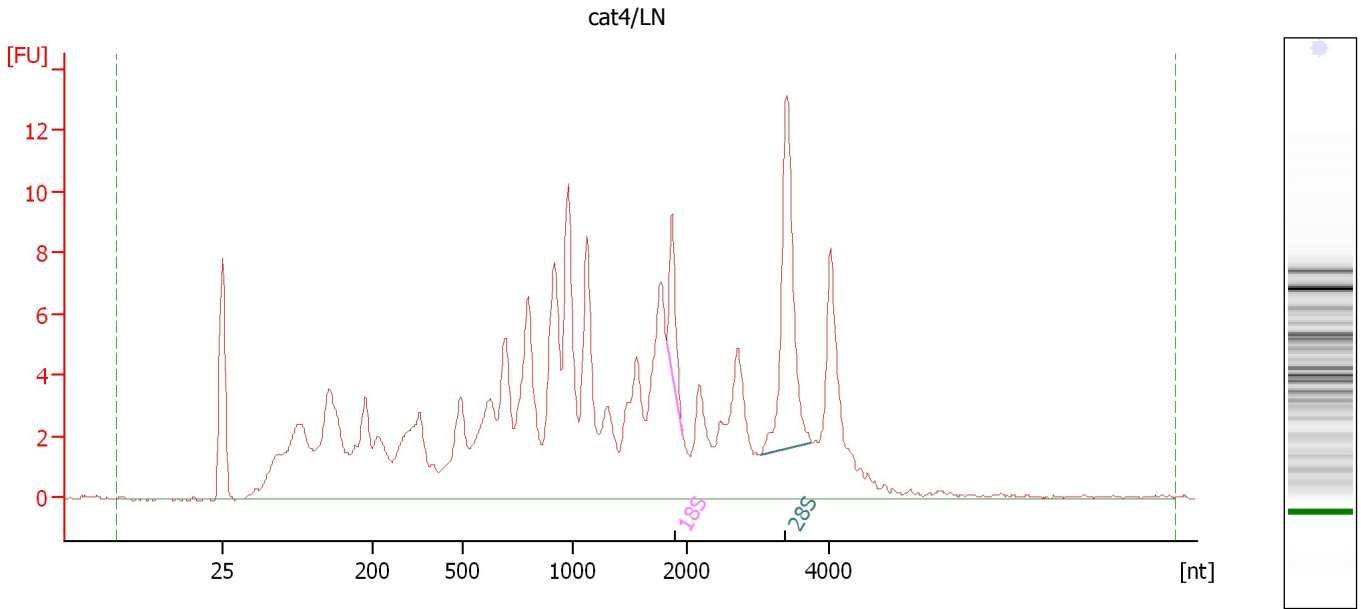
Fragment table for sample 2 : cat4/Spl

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,409	1,624	6.1	2.9
28S	2,936	3,863	11.7	5.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
Modified: 9/26/2014 9:06:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : cat4/LN

RNA Area:	214.0	RNA Integrity Number (RIN):	4.5 (B.02.08)
RNA Concentration:	157 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.7	Result Flagging Label:	RIN: 4.50

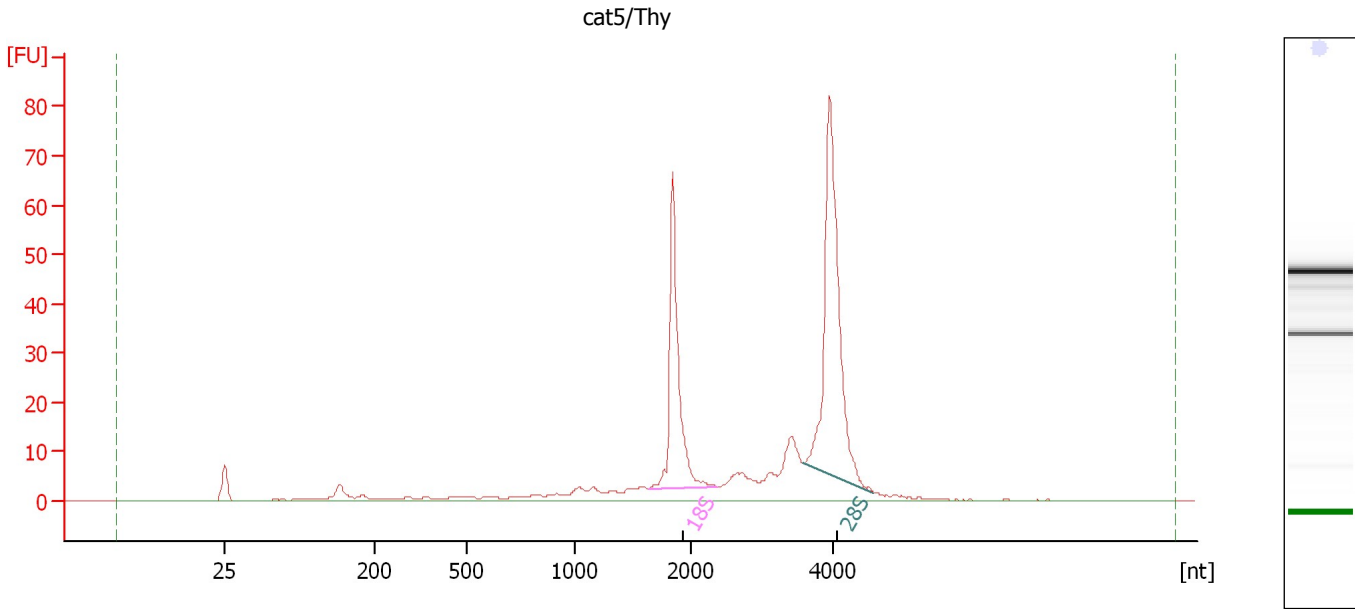
Fragment table for sample 3 : cat4/LN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,814	1,962	3.8	1.8
28S	3,041	3,751	14.1	6.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
Modified: 9/26/2014 9:06:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : cat5/Thy

RNA Area:	325.5	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	238 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.30

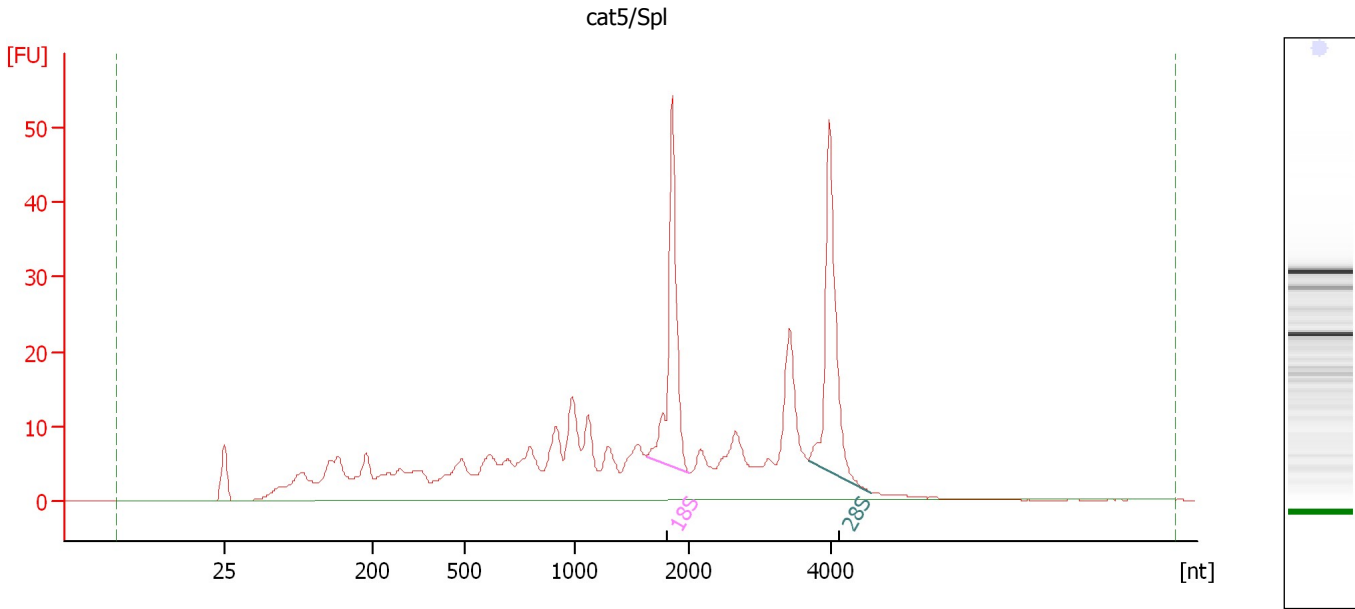
Fragment table for sample 4 : cat5/Thy

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,623	2,364	64.7	19.9
28S	3,567	4,560	110.3	33.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
Modified: 9/26/2014 9:06:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : cat5/Spl

RNA Area:	453.0	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	332 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 6.40

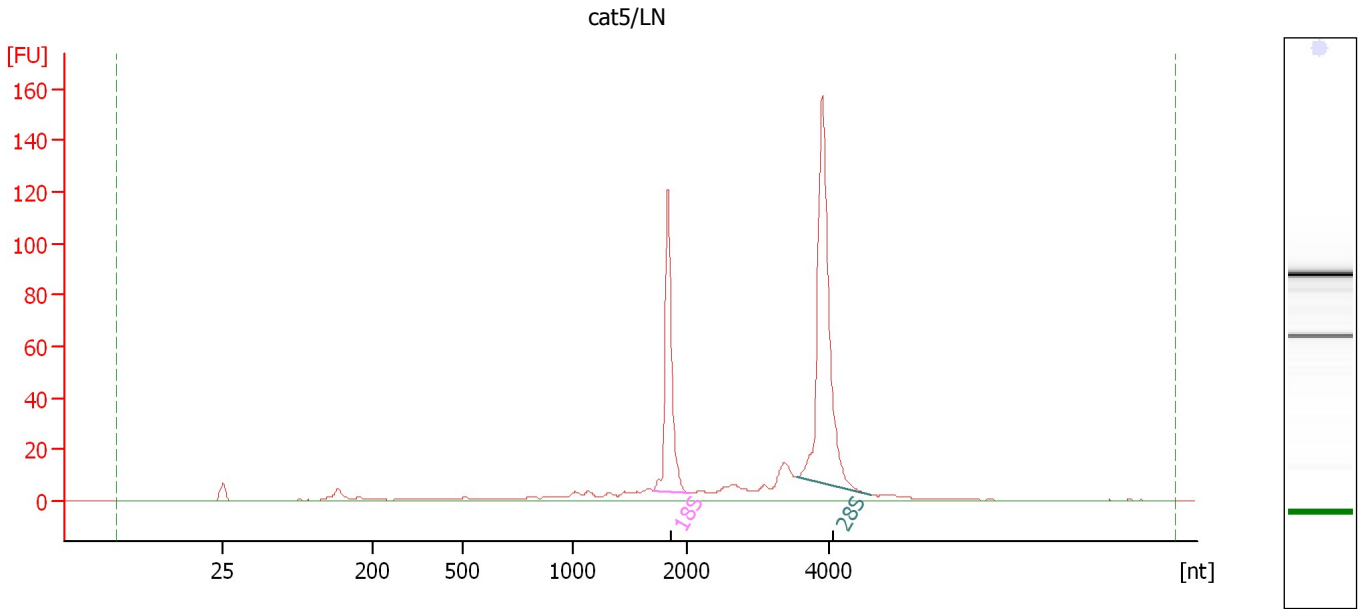
Fragment table for sample 5 : cat5/Spl

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,622	2,001	46.7	10.3
28S	3,674	4,548	49.0	10.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
Modified: 9/26/2014 9:06:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : cat5/LN

RNA Area:	455.6	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	334 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.60

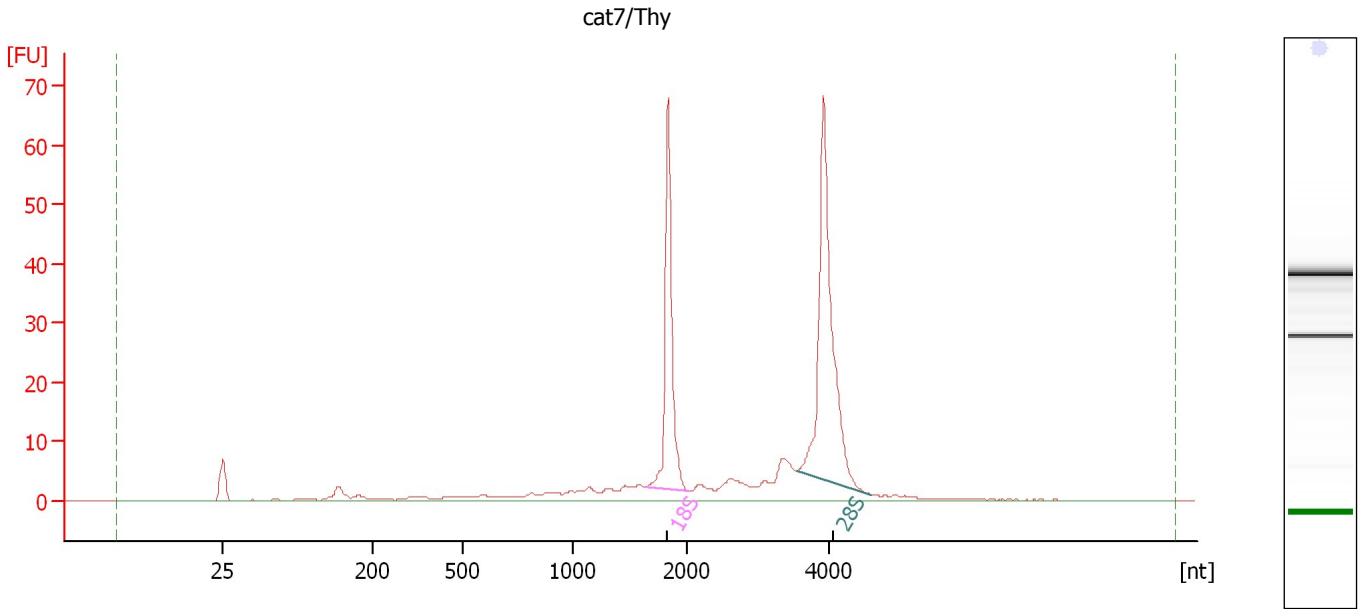
Fragment table for sample 6 : cat5/LN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,703	2,060	96.5	21.2
28S	3,540	4,582	176.3	38.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
 Modified: 9/26/2014 9:06:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : cat7/Thy

RNA Area:	248.0	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	182 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.10

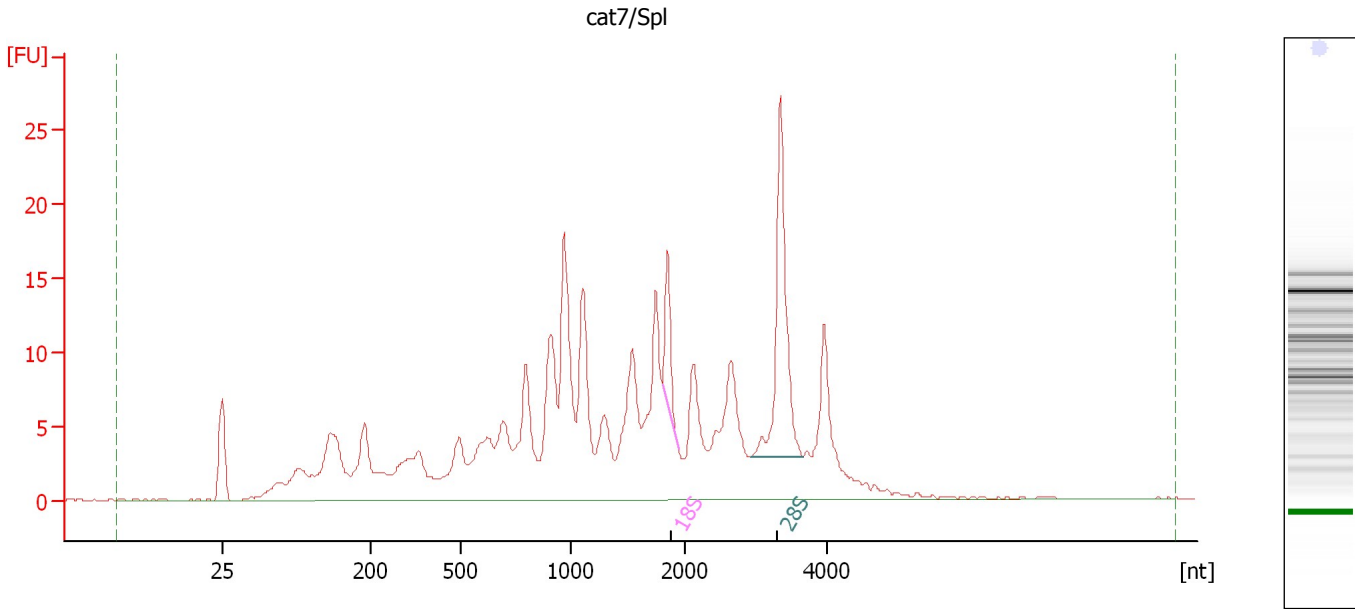
Fragment table for sample 7 : cat7/Thy

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,629	2,030	54.3	21.9
28S	3,540	4,597	84.3	34.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
 Modified: 9/26/2014 9:06:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : cat7/Spl

RNA Area:	323.3	RNA Integrity Number (RIN):	4.7 (B.02.08)
RNA Concentration:	237 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.5	Result Flagging Label:	RIN: 4.70

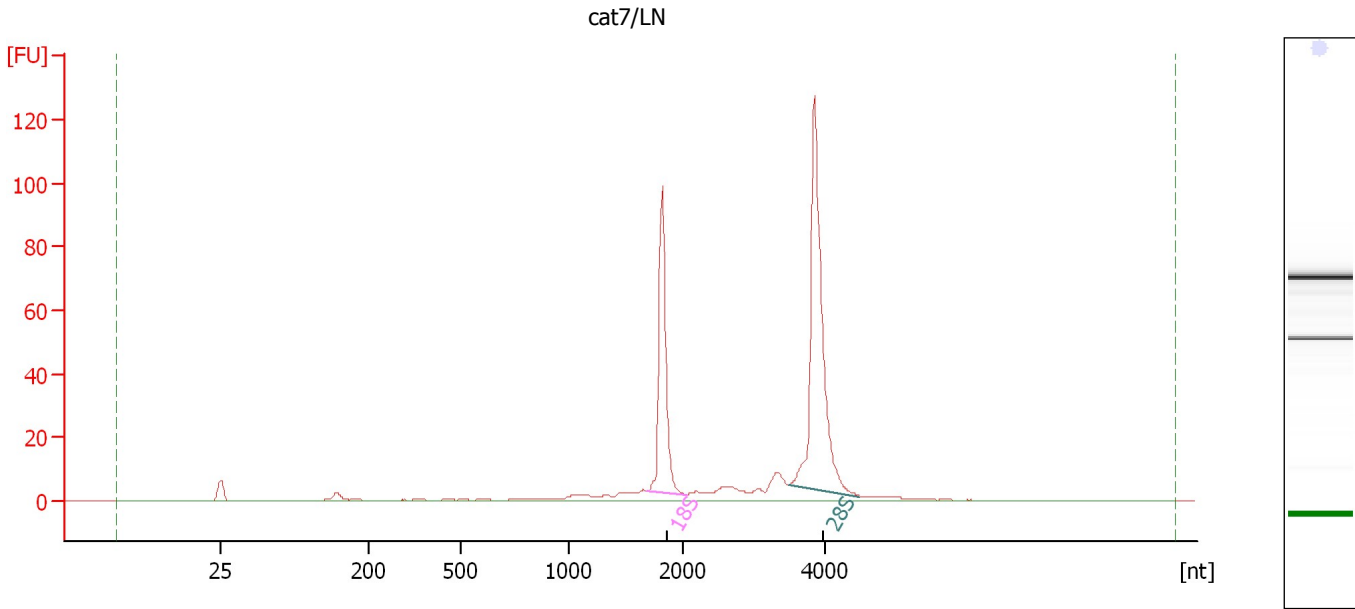
Fragment table for sample 8 : cat7/Spl

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,794	1,933	7.3	2.2
28S	2,921	3,662	25.4	7.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
 Modified: 9/26/2014 9:06:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : cat7/LN

RNA Area:	328.6	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	241 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.90

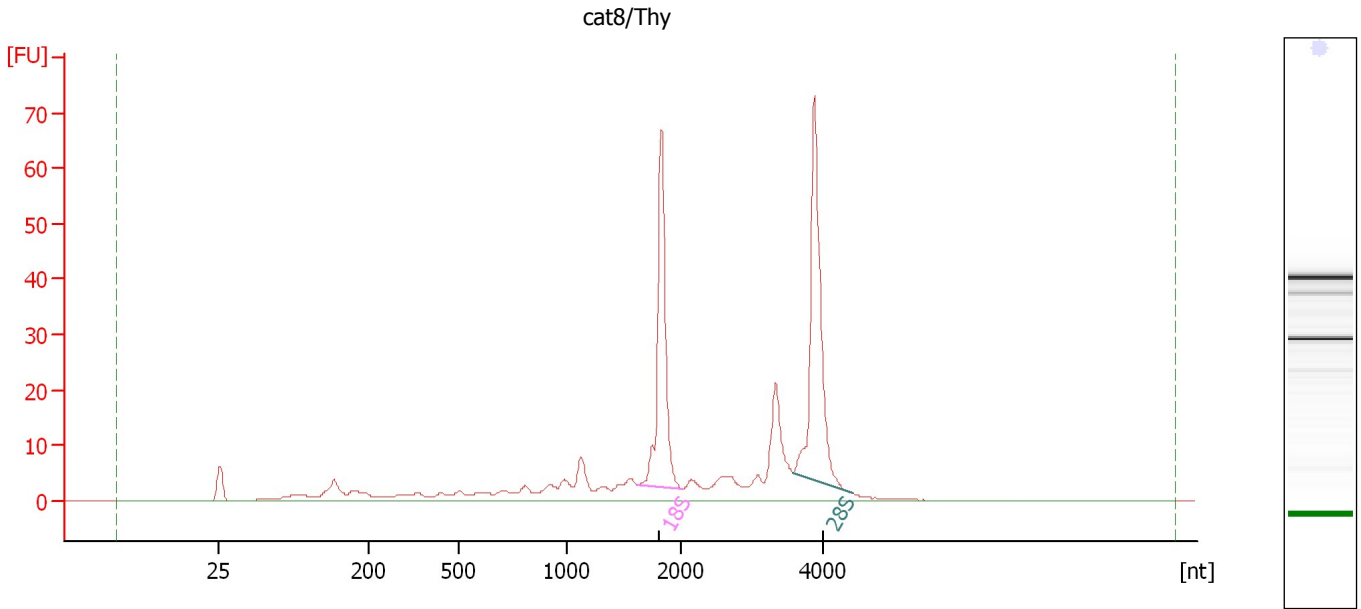
Fragment table for sample 9 : cat7/LN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,681	2,042	76.0	23.1
28S	3,497	4,498	142.4	43.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
Modified: 9/26/2014 9:06:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : cat8/Thy

RNA Area:	300.5	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	220 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.20

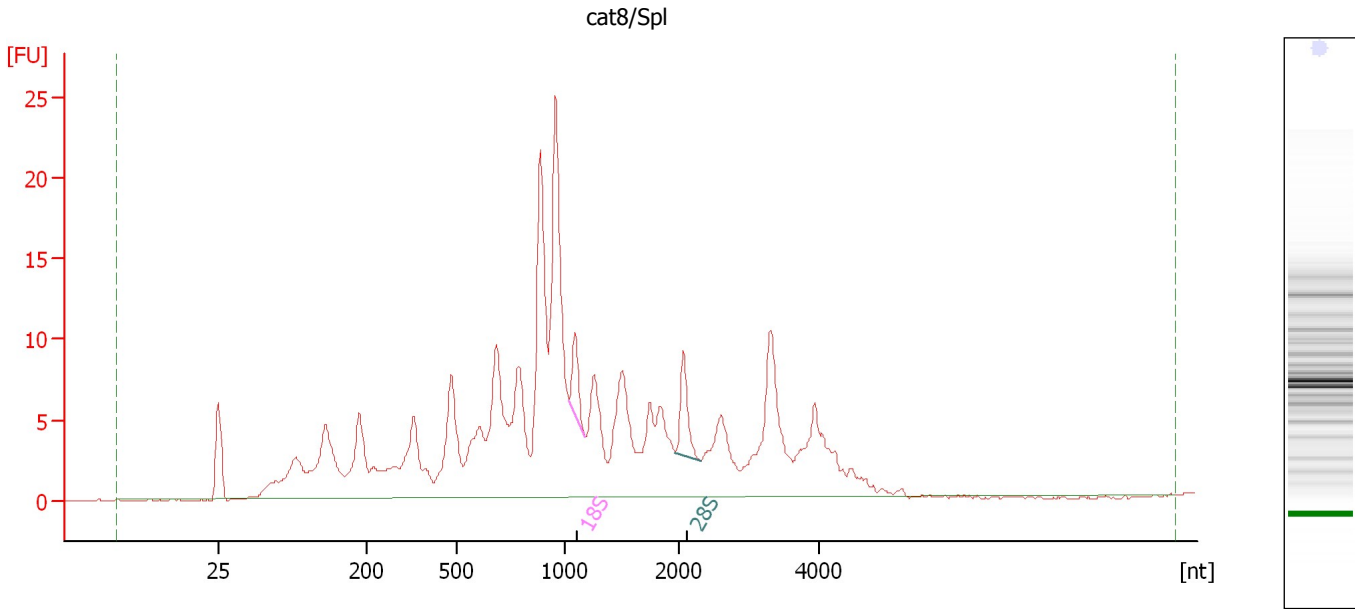
Fragment table for sample 10 : cat8/Thy

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,614	2,010	58.2	19.4
28S	3,590	4,426	71.2	23.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
 Modified: 9/26/2014 9:06:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : cat8/Spl

RNA Area:	292.8	RNA Integrity Number (RIN):	3 (B.02.08)
RNA Concentration:	215 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN:3

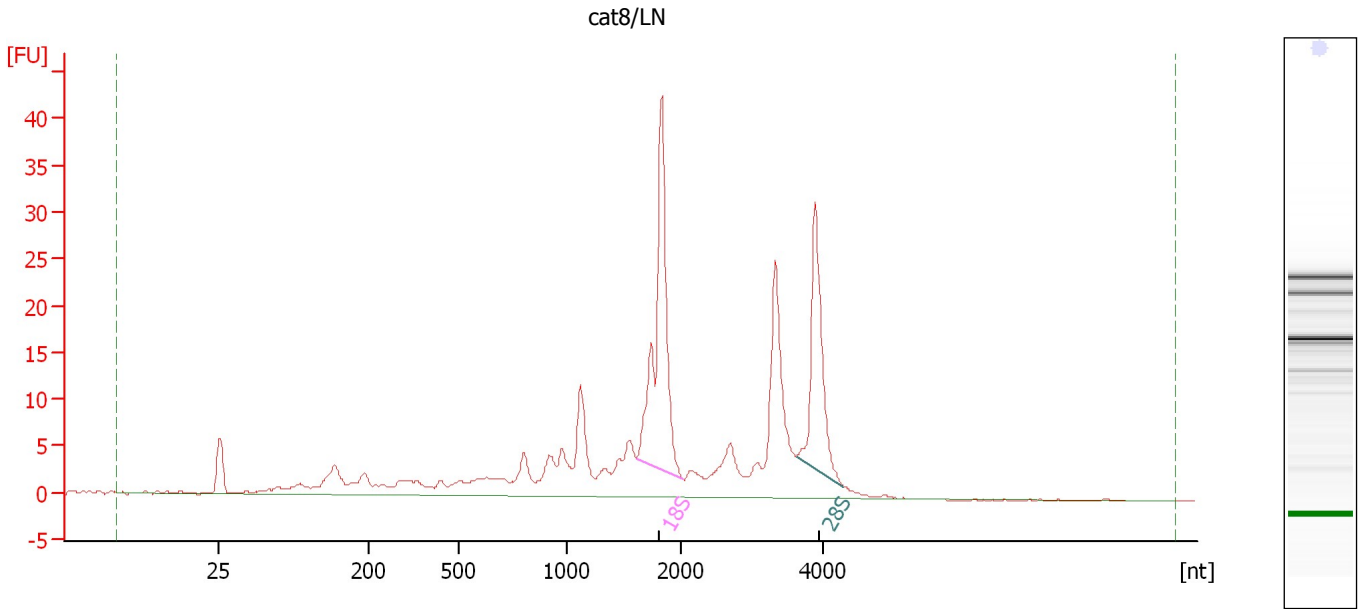
Fragment table for sample 11 : cat8/Spl

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,034	1,174	4.2	1.4
28S	1,967	2,297	5.5	1.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
Modified: 9/26/2014 9:06:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : cat8/LN

RNA Area: 263.0 RNA Integrity Number (RIN): 7.1 (B.02.08)
RNA Concentration: 193 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 7.10

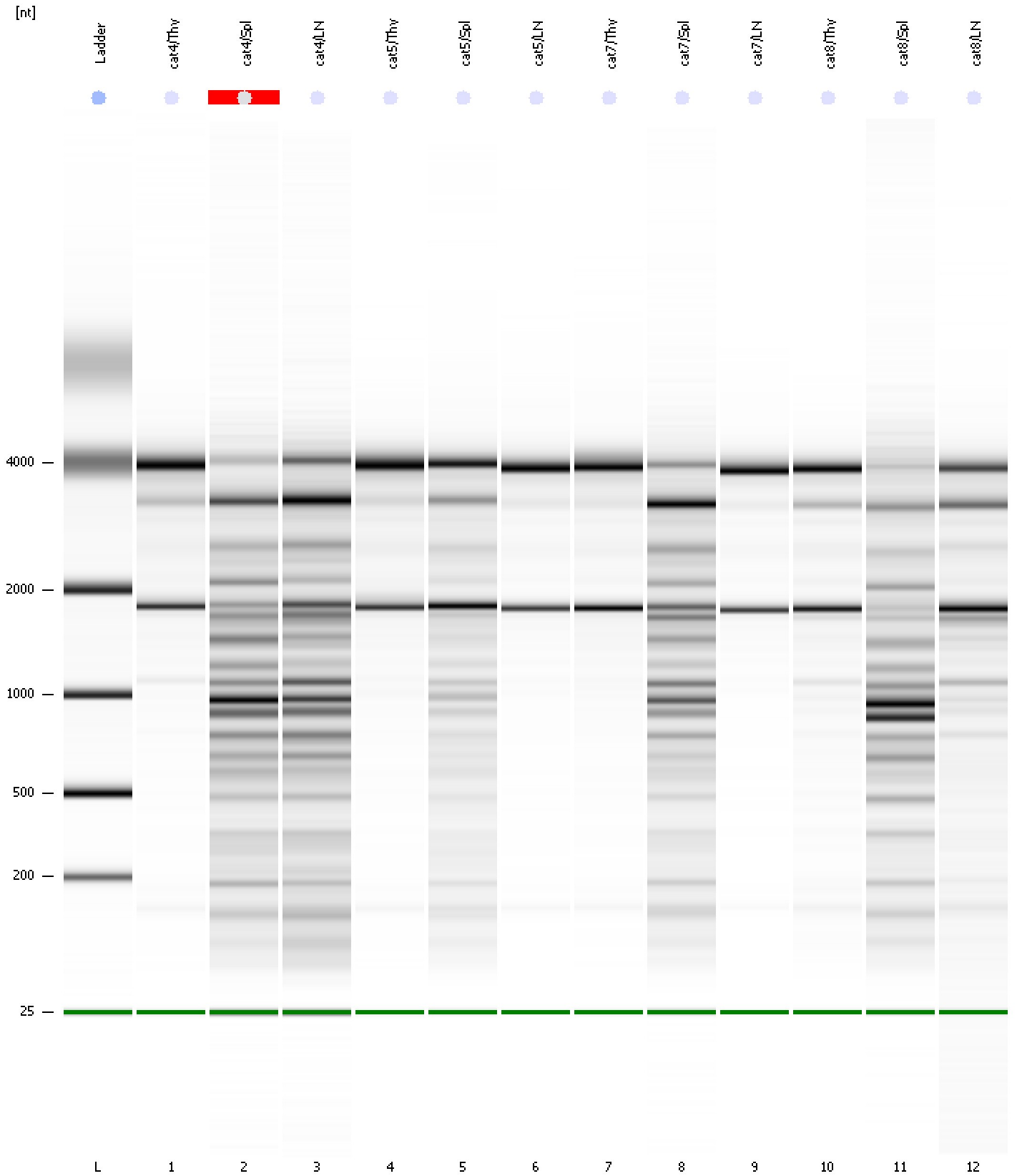
Fragment table for sample 12 : cat8/LN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	2,025	50.9	19.3
28S	3,635	4,304	30.5	11.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
Modified: 9/26/2014 9:06:45 AM

Gel Image

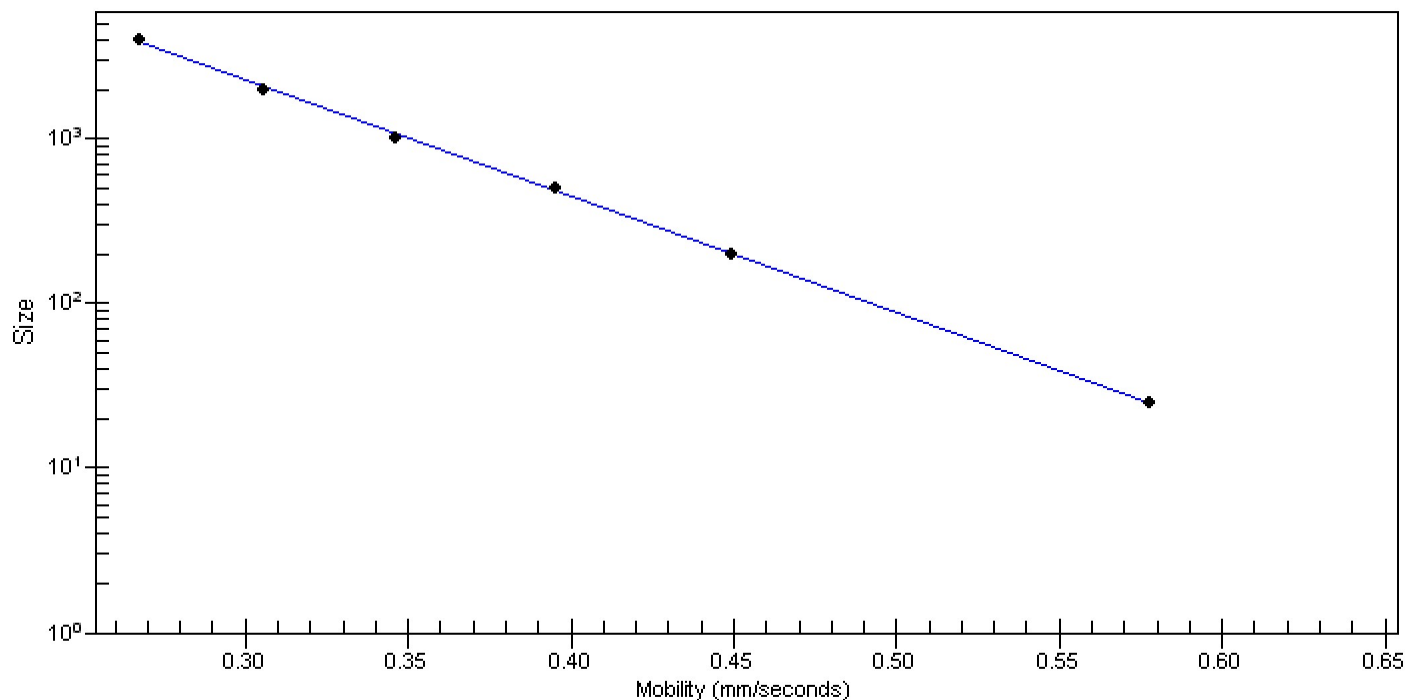


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
Modified: 9/26/2014 9:06:45 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad

Created: 9/26/2014 8:39:27 AM
 Modified: 9/26/2014 9:06:45 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		9/26/2014 9:03:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-26\2014-09-26_001.xad)		Instrument	Run		9/26/2014 8:39:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/26/2014 8:39:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/26/2014 8:39:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/26/2014 8:39:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/26/2014 8:39:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/26/2014 8:39:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/26/2014 8:39:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1