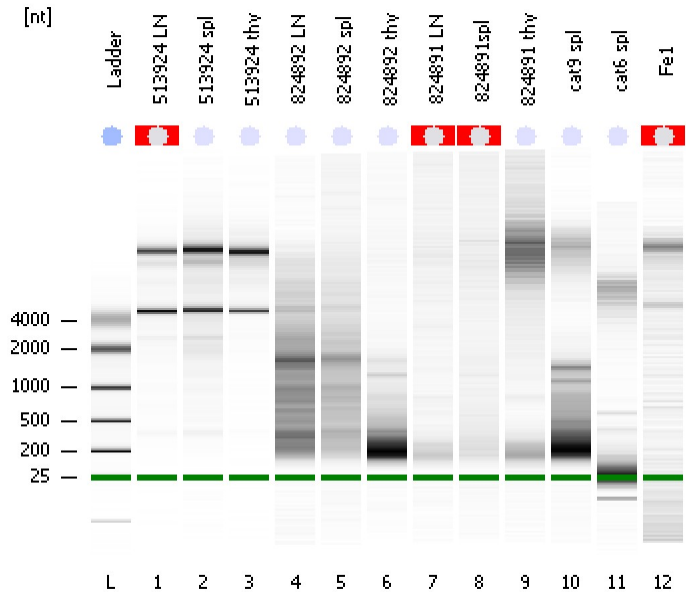


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 PM

Electrophoresis File Run Summary



Instrument Information:

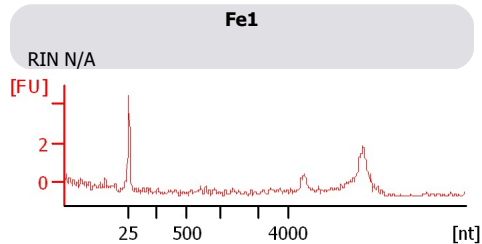
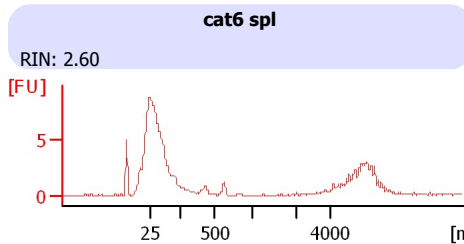
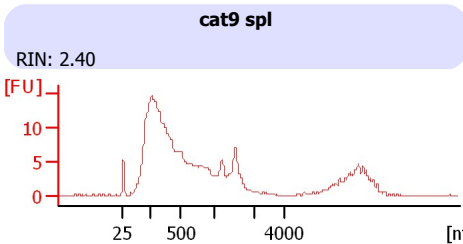
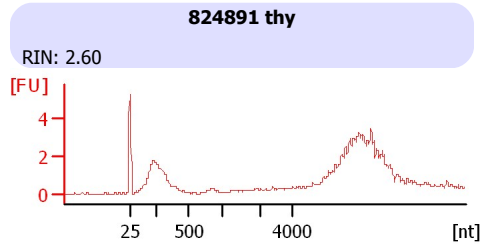
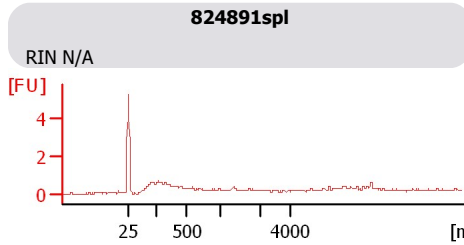
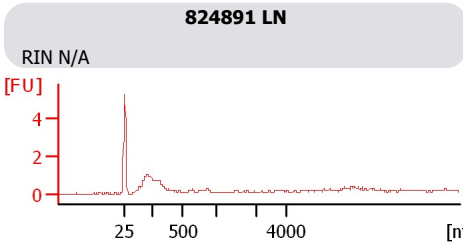
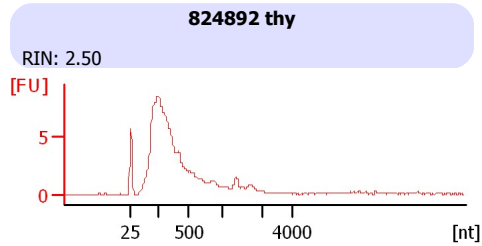
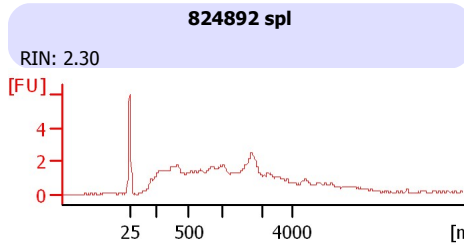
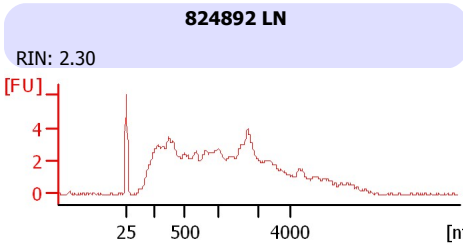
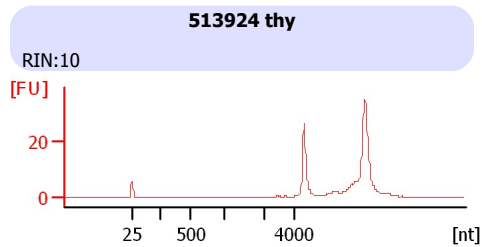
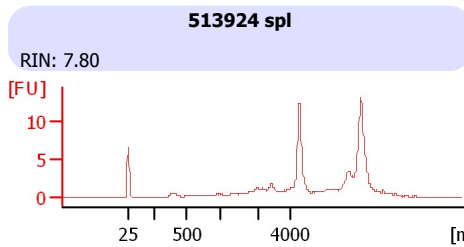
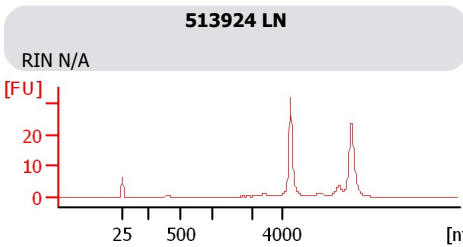
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

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



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
 Modified: 10/3/2014 5:04:20 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
513924 LN		✓	RIN N/A	
513924 spl		✓	RIN: 7.80	
513924 thy		✓	RIN:10	
824892 LN		✓	RIN: 2.30	
824892 spl		✓	RIN: 2.30	
824892 thy		✓	RIN: 2.50	
824891 LN		✓	RIN N/A	
824891spl		✓	RIN N/A	
824891 thy		✓	RIN: 2.60	
cat9 spl		✓	RIN: 2.40	
cat6 spl		✓	RIN: 2.60	
Fe1		✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 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

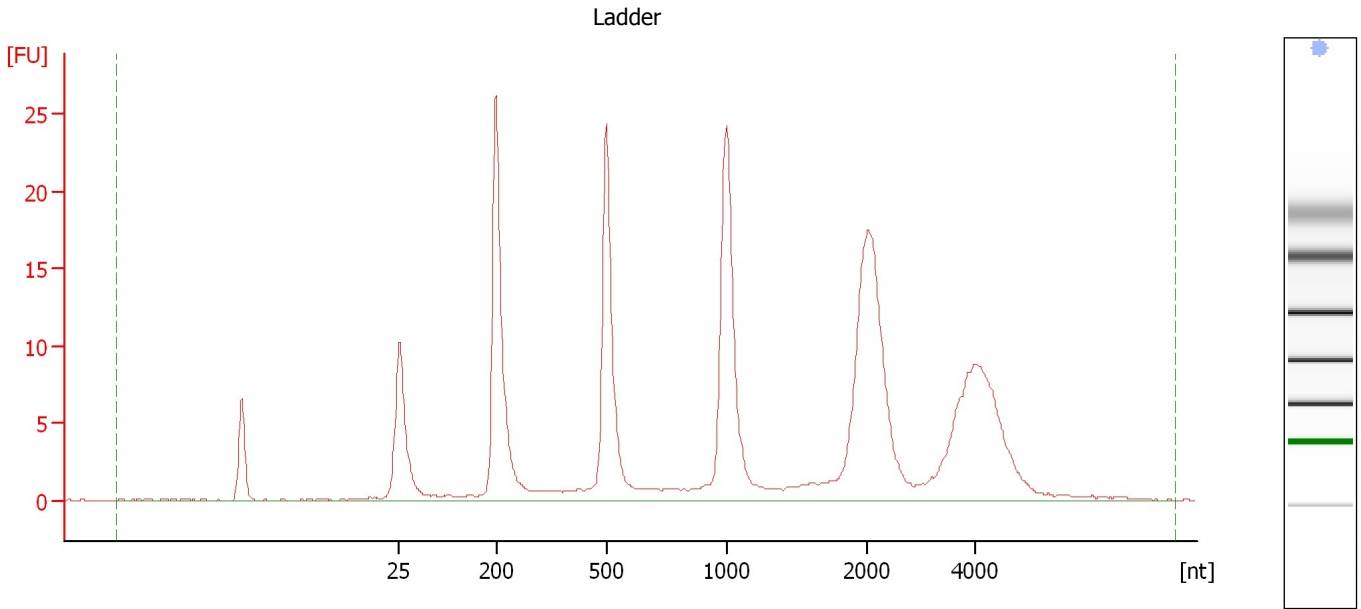
### Ladder

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\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 PM

**Electropherogram Summary**



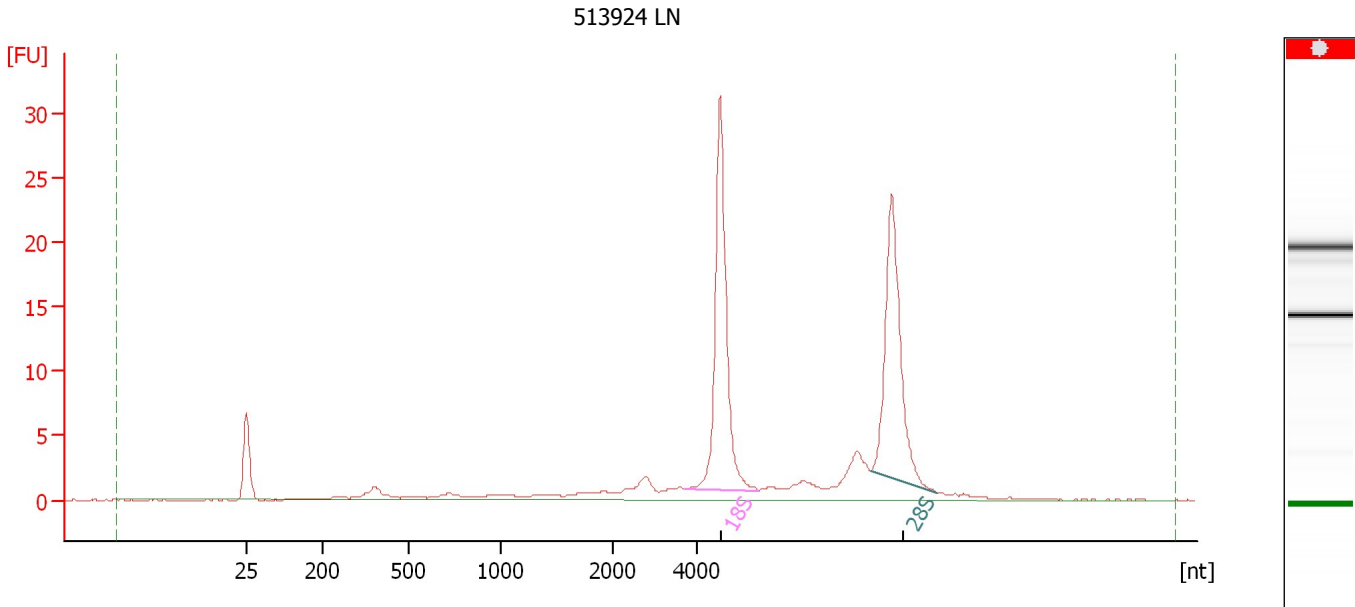
**Overall Results for Ladder**

RNA Area:	228.3	Result Flagging Color:	<span style="background-color: blue; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
 Modified: 10/3/2014 5:04:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 513924 LN**

RNA Area:	120.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	79 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN N/A

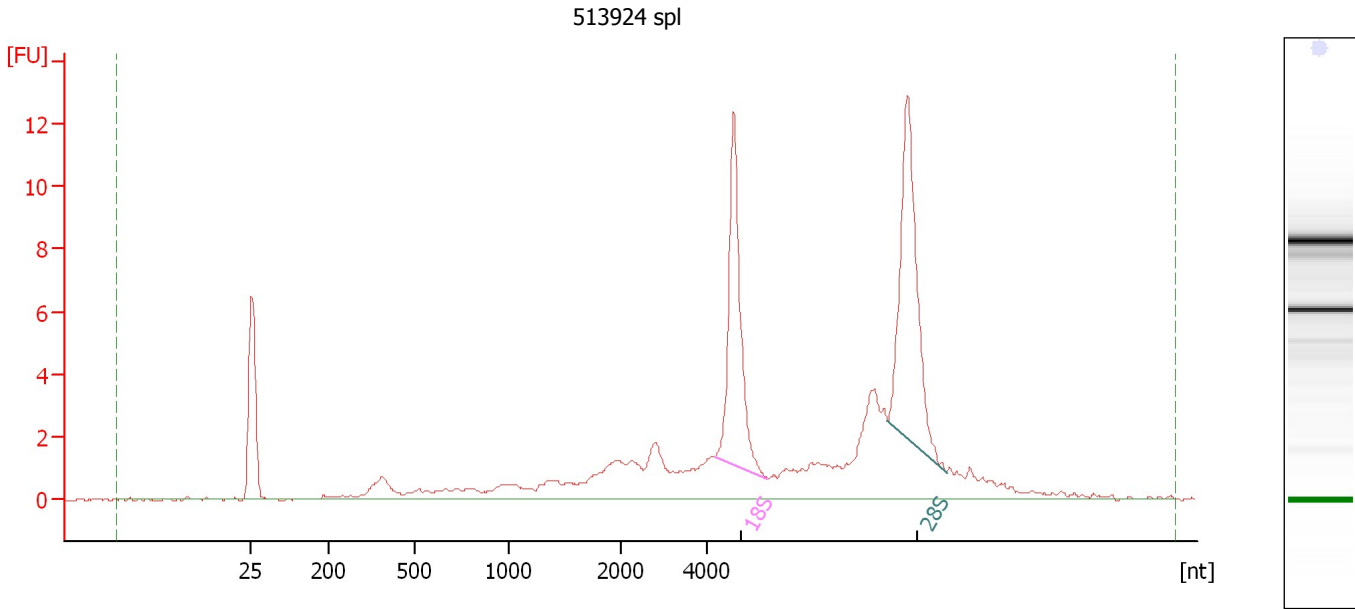
**Fragment table for sample 1 : 513924 LN**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,717	5,466	37.9	31.4
28S	8,127	9,698	31.7	26.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 513924 spl**

RNA Area:	90.0	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	59 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.80

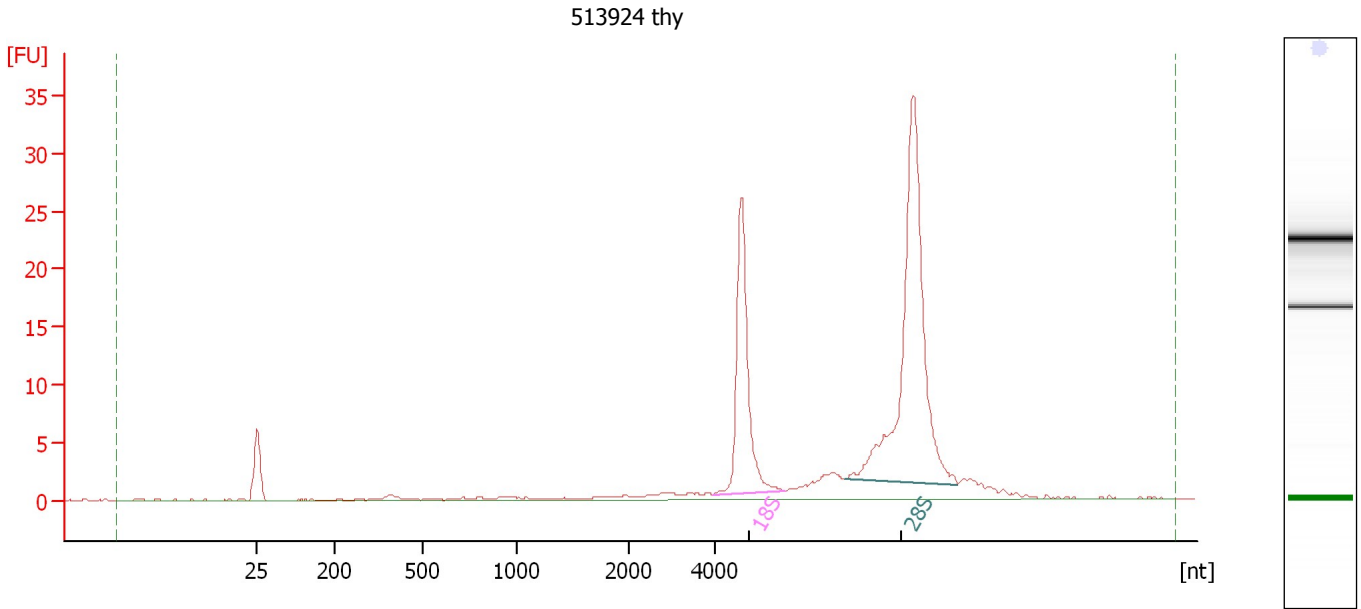
**Fragment table for sample 2 : 513924 spl**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,194	5,448	14.5	16.1
28S	8,259	9,640	17.2	19.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 513924 thy**

RNA Area: 138.5      RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 91 ng/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.1      Result Flagging Label: RIN:10

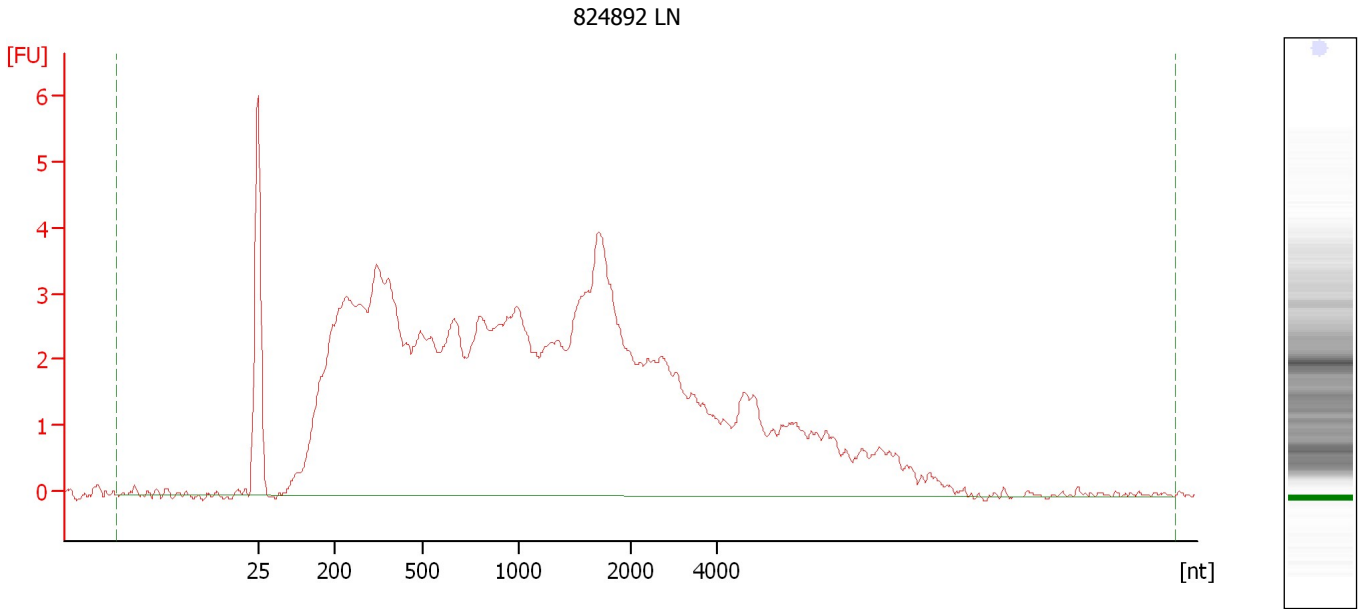
**Fragment table for sample 3 : 513924 thy**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,915	5,606	30.2	21.8
28S	6,998	9,632	64.6	46.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 824892 LN**

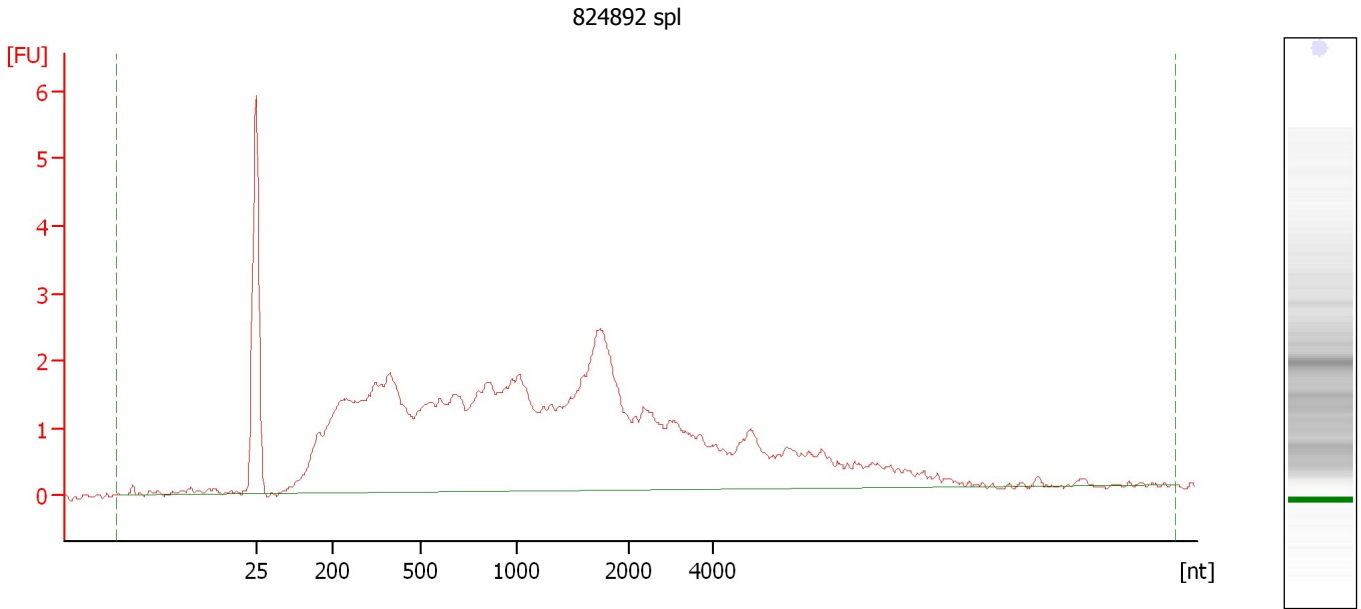
RNA Area:	143.4	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	94 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 PM

**Electropherogram Summary Continued ...**



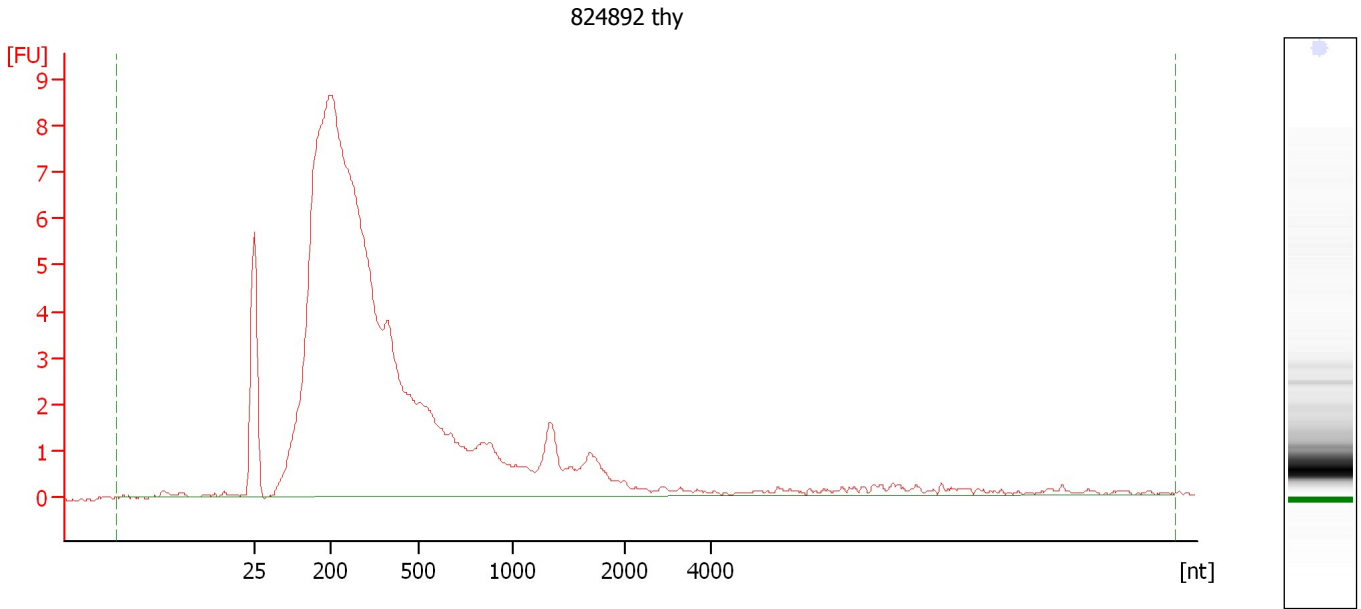
**Overall Results for sample 5 : 824892 spl**

RNA Area:	77.7	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	51 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 PM

**Electropherogram Summary Continued ...**



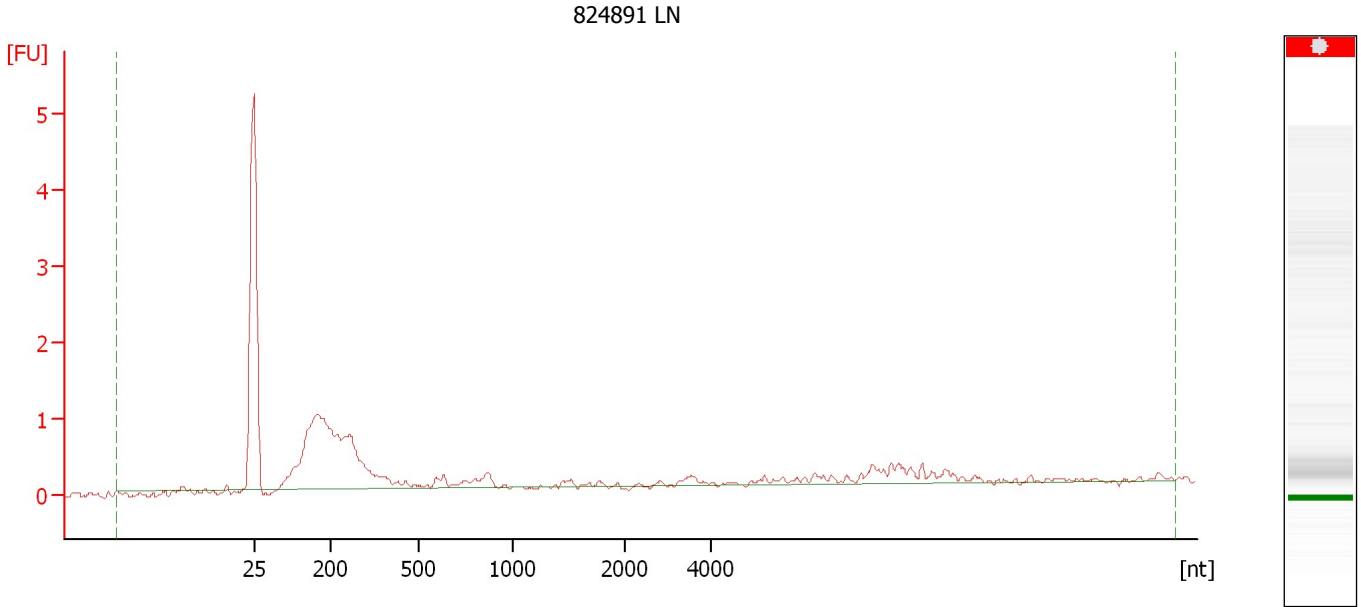
**Overall Results for sample 6 : 824892 thy**

RNA Area:	126.1	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	83 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 PM

**Electropherogram Summary Continued ...**



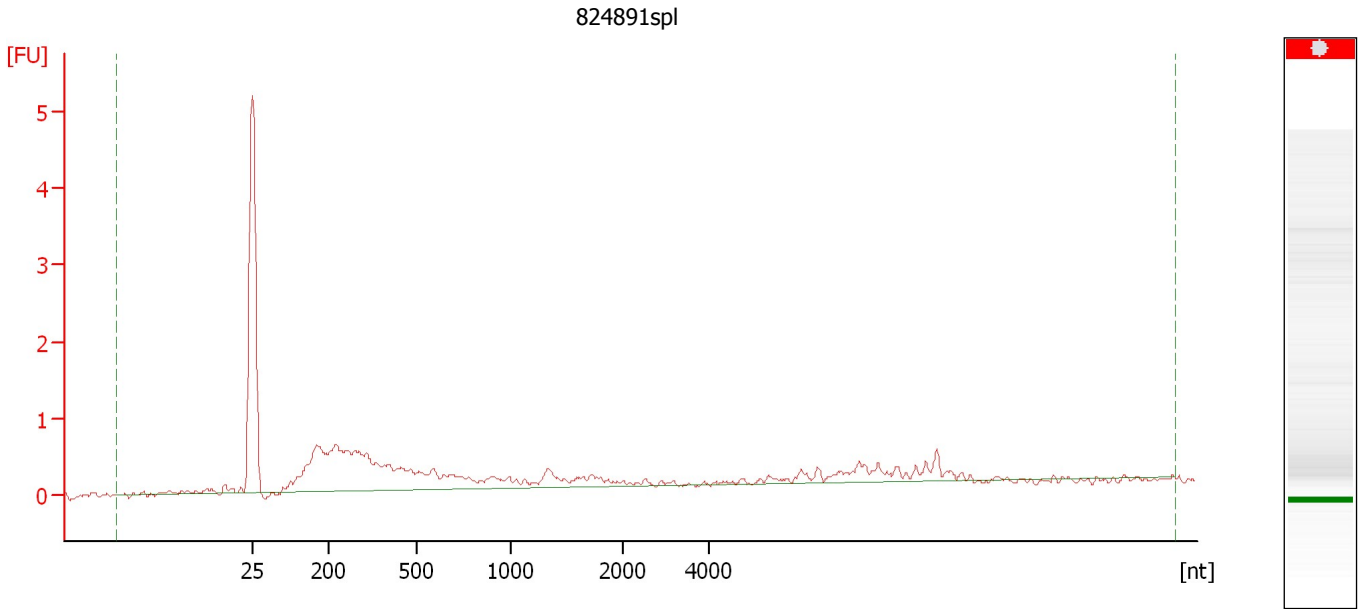
**Overall Results for sample 7 : 824891 LN**

RNA Area:	12.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 PM

**Electropherogram Summary Continued ...**



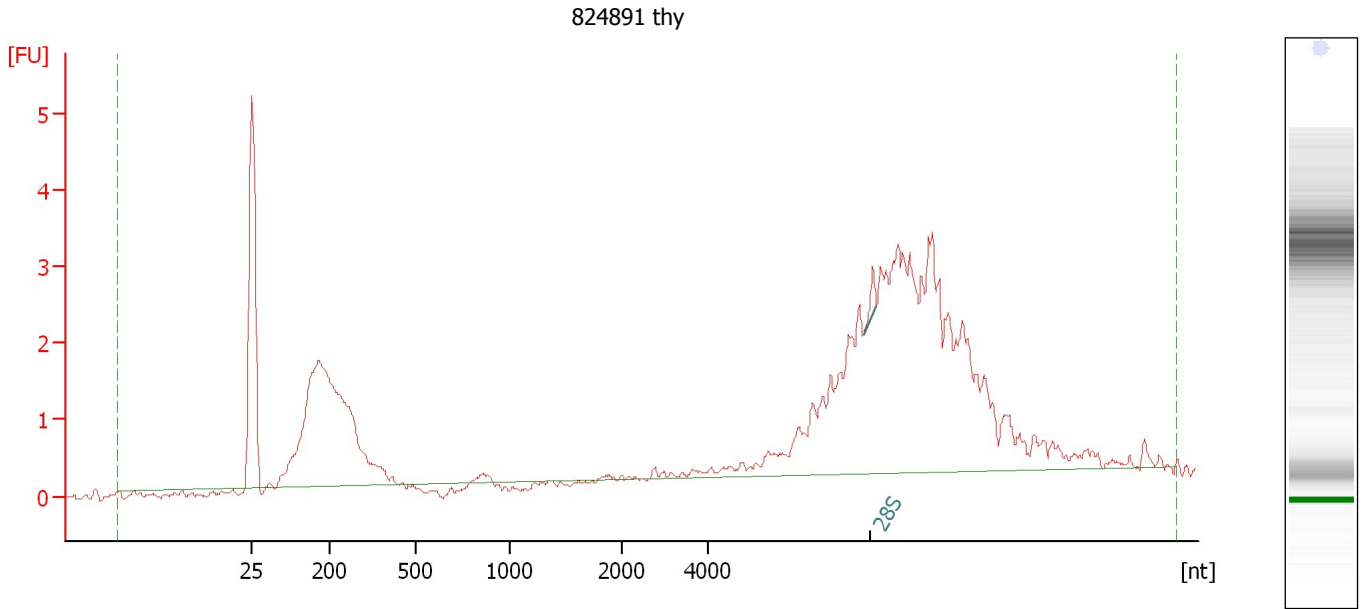
**Overall Results for sample 8 : 824891spl**

RNA Area:	14.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	9 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 824891 thy**

RNA Area:	48.8	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	32 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

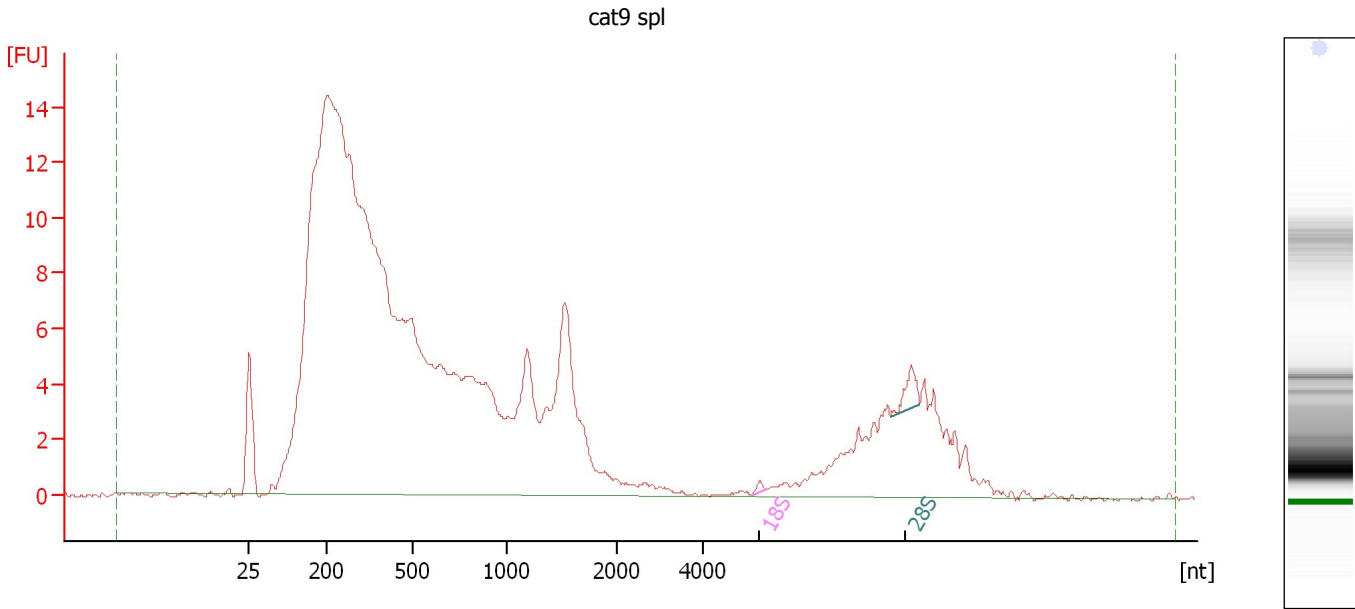
**Fragment table for sample 9 : 824891 thy**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	7,682	7,983	0.3	0.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : cat9 spl**

RNA Area: 309.0                      RNA Integrity Number (RIN): 2.4 (B.02.08)  
RNA Concentration: 203 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 6.2                      Result Flagging Label: RIN: 2.40

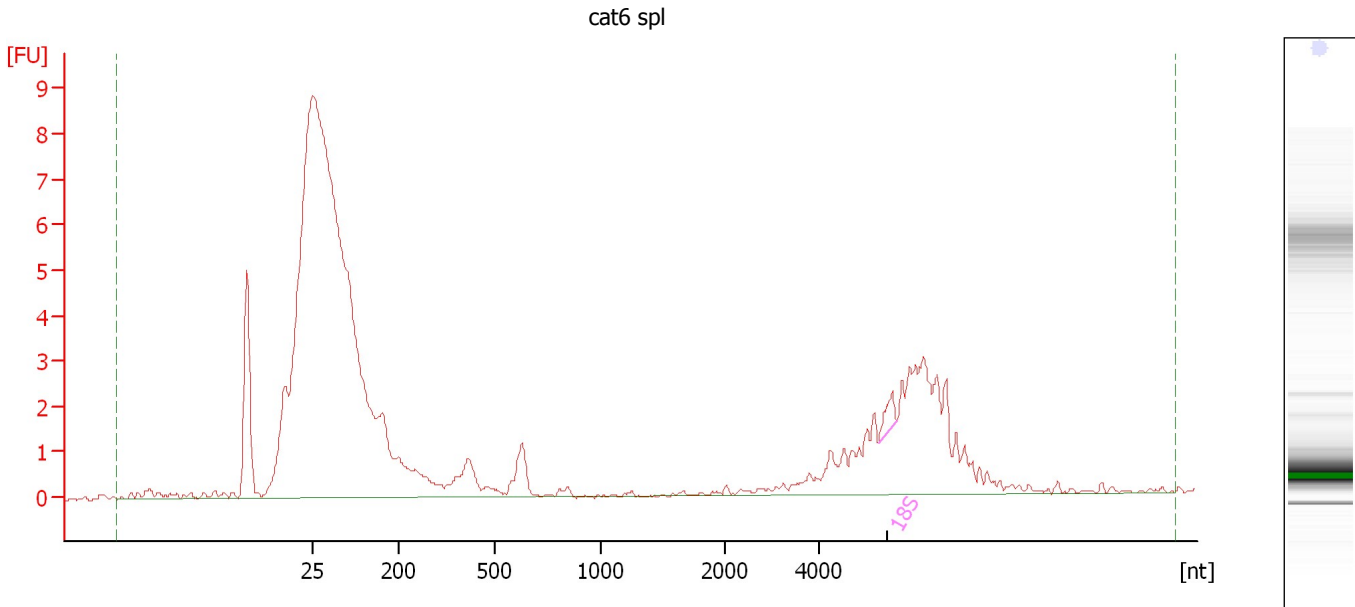
**Fragment table for sample 10 : cat9 spl**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,193	5,521	0.2	0.1
28S	8,444	9,124	1.5	0.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : cat6 spl**

RNA Area:	43.5	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	29 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

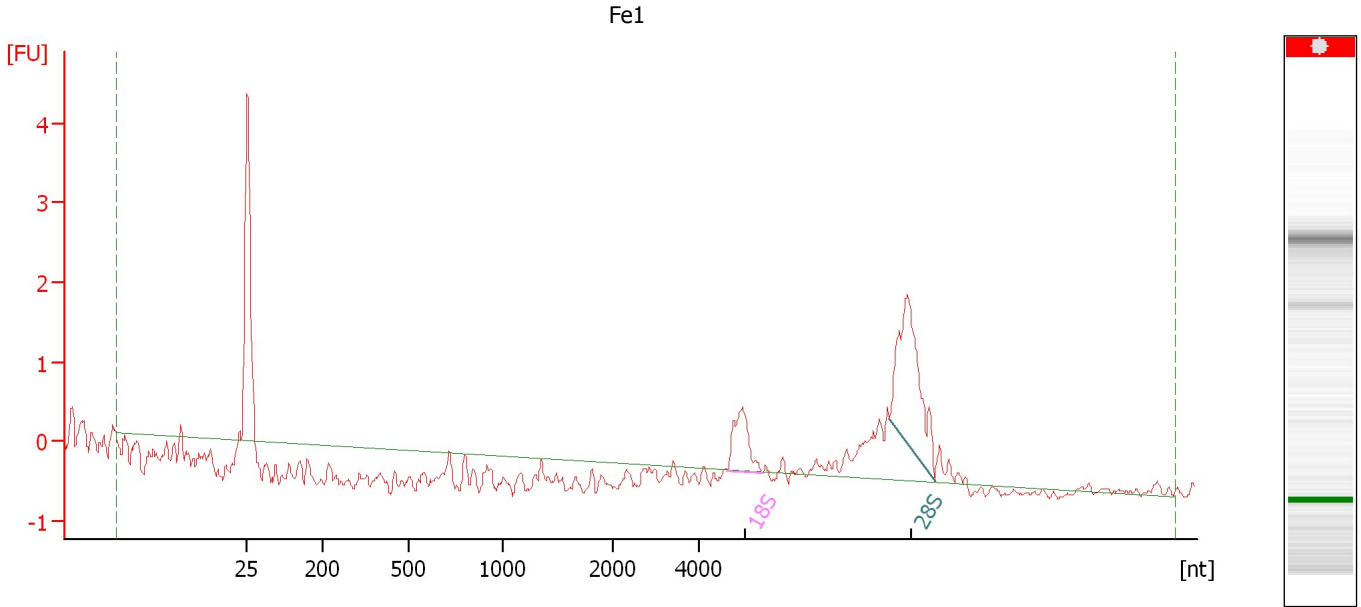
**Fragment table for sample 11 : cat6 spl**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,261	5,645	0.7	1.6

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
 Modified: 10/3/2014 5:04:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : Fe1**

RNA Area:	9.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	2.8	Result Flagging Label:	RIN N/A

**Fragment table for sample 12 : Fe1**

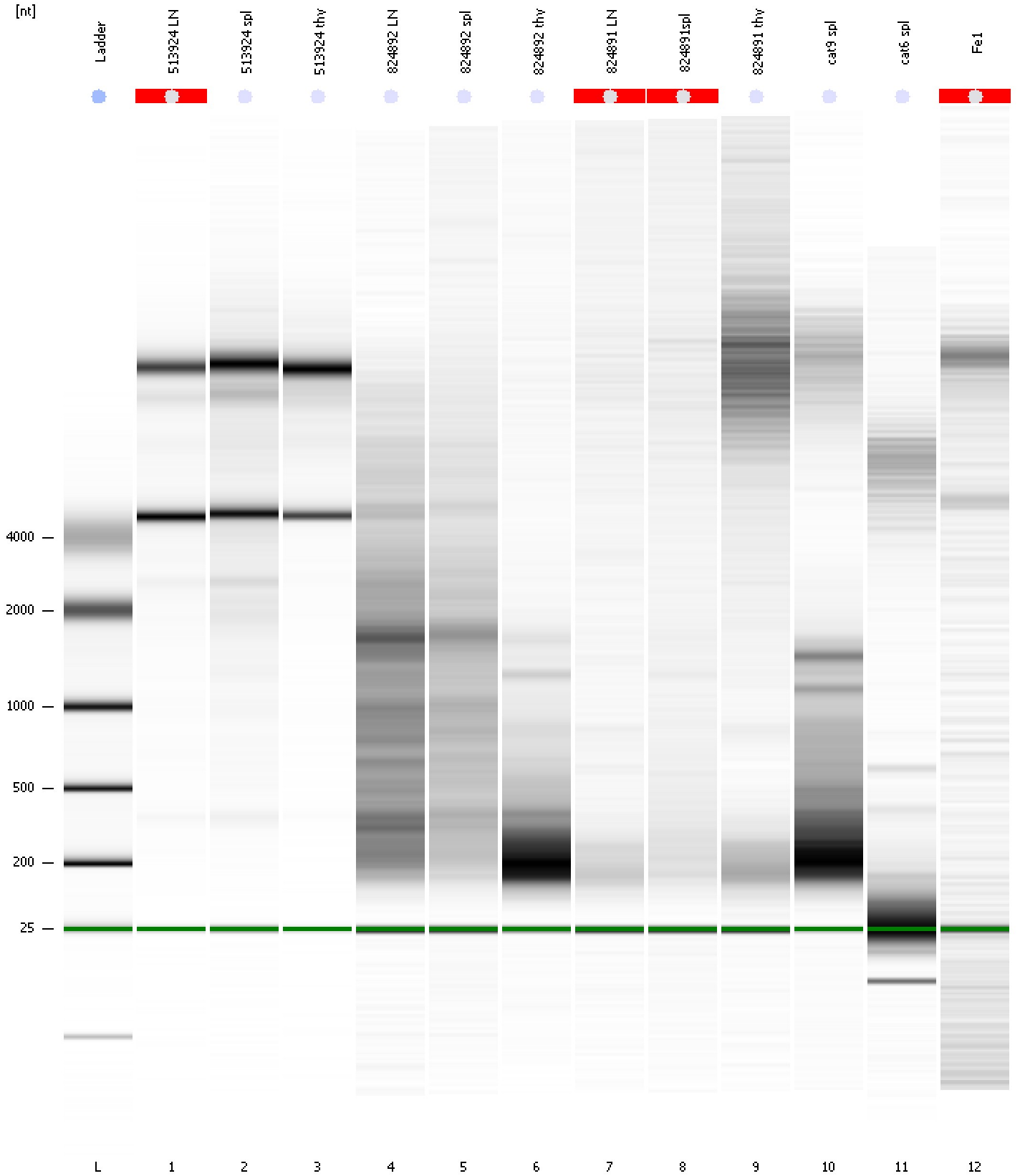
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,683	5,543	1.3	14.1
28S	8,528	9,590	3.8	39.5



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 PM

**Gel Image**

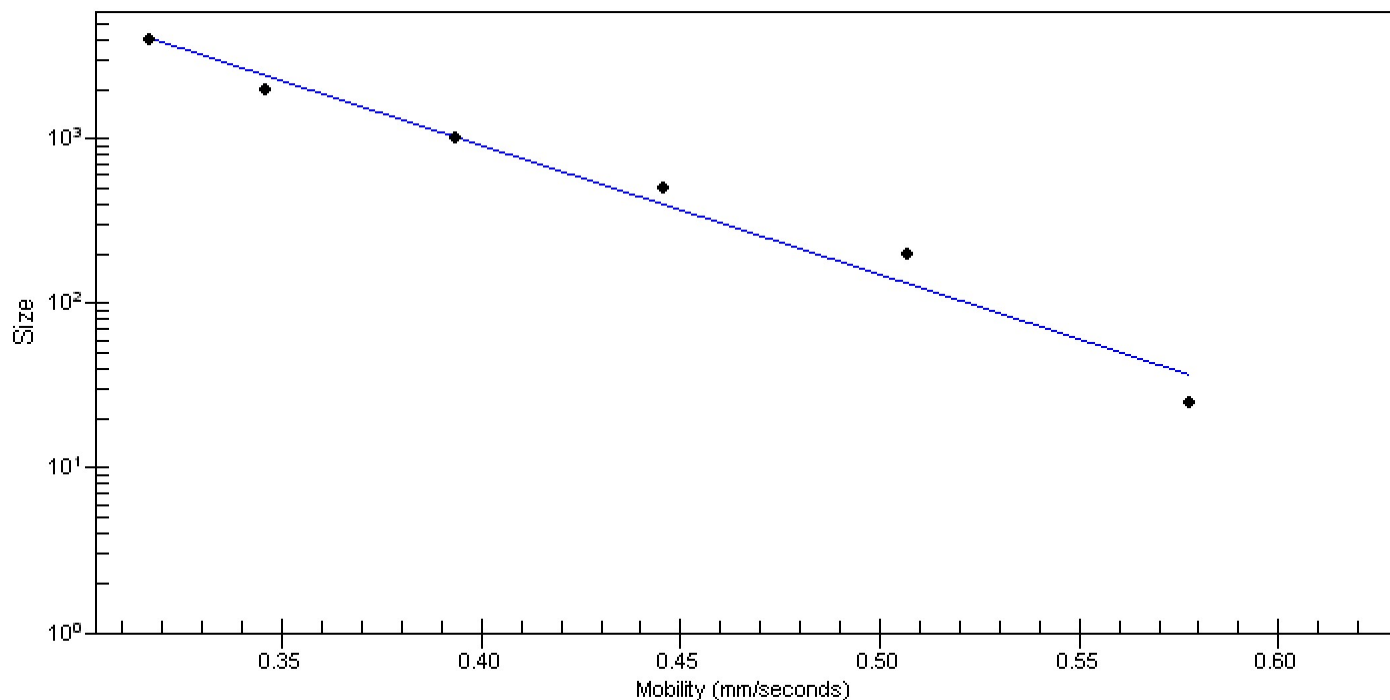


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
Modified: 10/3/2014 5:04:20 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_007.xad

Created: 10/3/2014 4:41:15 PM  
 Modified: 10/3/2014 5:04:20 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		10/3/2014 5:04:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-03\2014-10-03_007.xad)		Instrument	Run		10/3/2014 4:41:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/3/2014 4:41:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/3/2014 4:41:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/3/2014 4:41:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/3/2014 4:41:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/3/2014 4:41:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/3/2014 4:41:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1