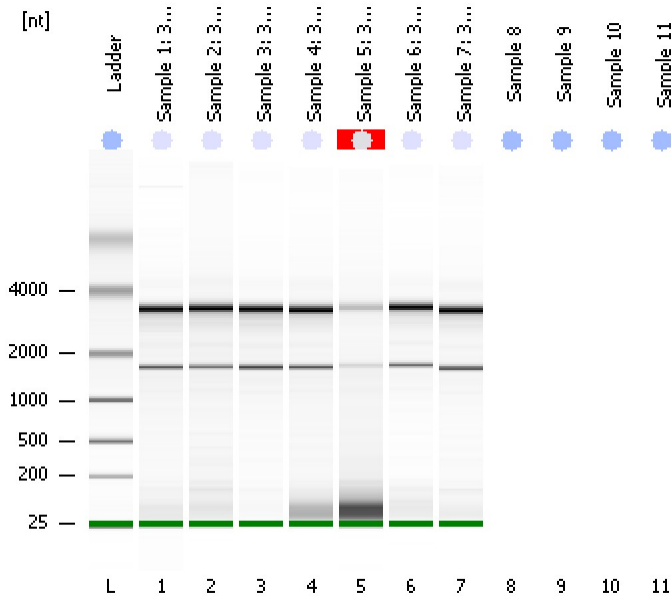


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad

Created: 2/10/2016 2:56:15 PM
Modified: 2/10/2016 3:13:30 PM

Electrophoresis File Run Summary



Instrument Information:

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

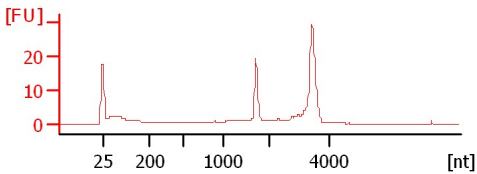
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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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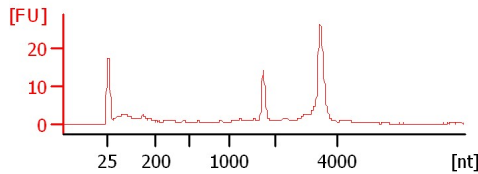
Chip Information:

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

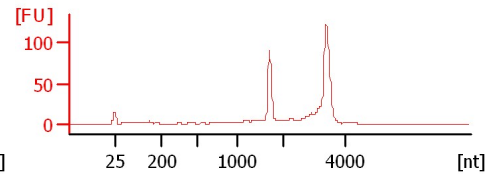
Sample 1: 31, wt, T=0
Total RNA with DNase Cleanup
RIN: 8.70



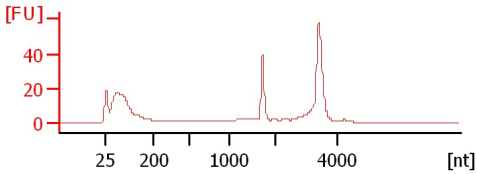
Sample 2: 32, df, T=0
Total RNA with DNase Cleanup
RIN: 8.70



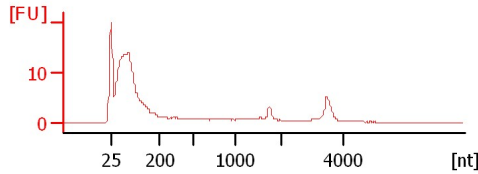
Sample 3: 33, wt, u, 6h
Total RNA with DNase Cleanup
RIN: 8.80



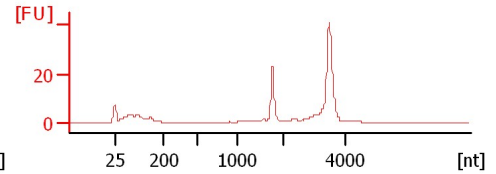
Sample 4: 34, wt, M, 6h
Total RNA with DNase Cleanup
RIN: 8.50



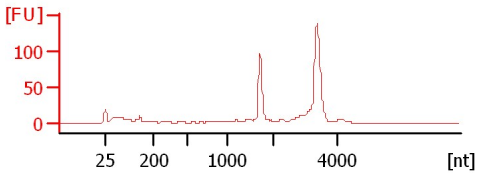
Sample 5: 35, wt, M40, 6h
Total RNA with DNase Cleanup
RIN N/A



Sample 6: 36, dF4, u, 6h
Total RNA with DNase Cleanup
RIN: 9.20














Sample 7: 37, dF4, M, 6h
Total RNA with DNase Cleanup
RIN: 9.10



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad

Created: 2/10/2016 2:56:15 PM
Modified: 2/10/2016 3:13:30 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1: 31, wt, T=0	Total RNA with DNase Cleanup	✓	RIN: 8.70	
Sample 2: 32, df, T=0	Total RNA with DNase Cleanup	✓	RIN: 8.70	
Sample 3: 33, wt, u, 6h	Total RNA with DNase Cleanup	✓	RIN: 8.80	
Sample 4: 34, wt, M, 6h	Total RNA with DNase Cleanup	✓	RIN: 8.50	
Sample 5: 35, wt, M40, 6h	Total RNA with DNase Cleanup	✓	RIN N/A	
Sample 6: 36, dF4, u, 6h	Total RNA with DNase Cleanup	✓	RIN: 9.20	
Sample 7: 37, dF4, M, 6h	Total RNA with DNase Cleanup	✓	RIN: 9.10	
Sample 8				
Sample 9				
Sample 10				
Sample 11				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad

Created: 2/10/2016 2:56:15 PM
Modified: 2/10/2016 3:13:30 PM

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

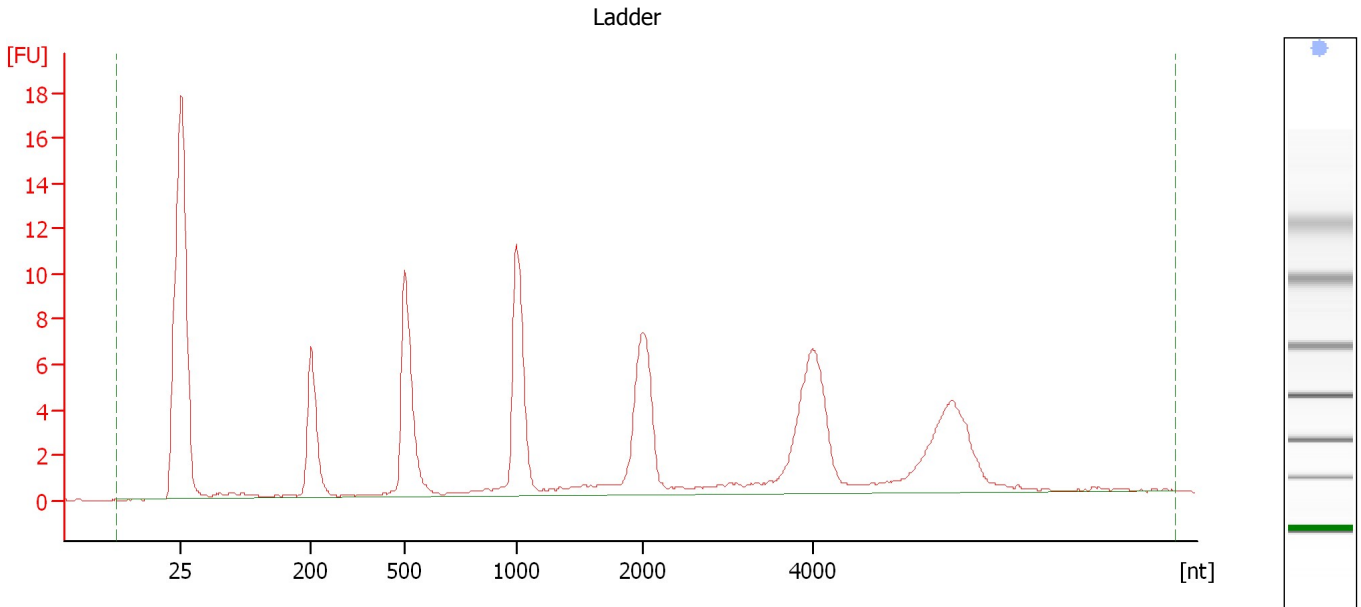
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad

Created: 2/10/2016 2:56:15 PM
Modified: 2/10/2016 3:13:30 PM

Electropherogram Summary



Overall Results for Ladder

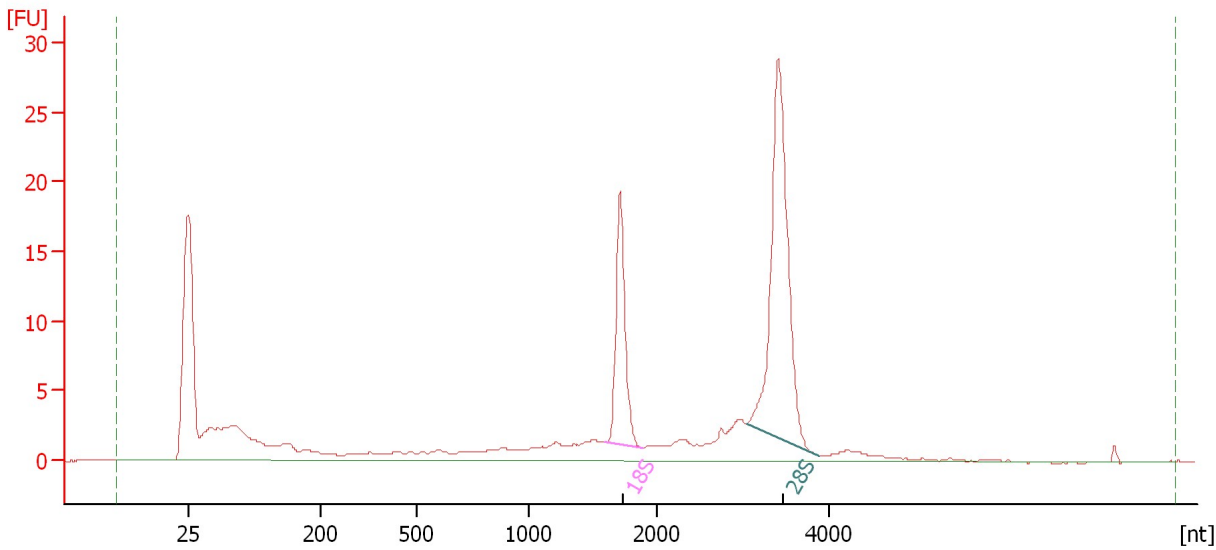
RNA Area:	113.0	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad

Created: 2/10/2016 2:56:15 PM
Modified: 2/10/2016 3:13:30 PM

Electropherogram Summary Continued ...

Sample 1: 31, wt, T=0 [Total RNA with DNase Cleanup]



Overall Results for sample 1 : Sample 1: 31, wt, T=0

RNA Area: 162.7 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 1,440 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.4 Result Flagging Label: RIN: 8.70

Fragment table for sample 1 : Sample 1: 31, wt, T=0

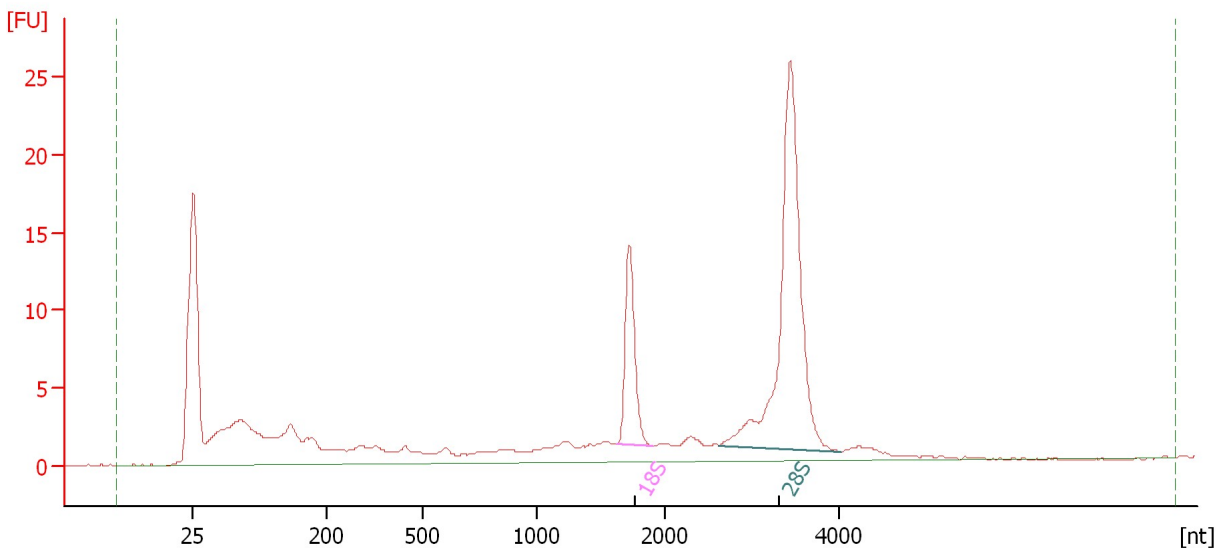
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,593	1,885	20.5	12.6
28S	3,031	3,873	48.5	29.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad

Created: 2/10/2016 2:56:15 PM
Modified: 2/10/2016 3:13:30 PM

Electropherogram Summary Continued ...

Sample 2: 32, df, T=0 [Total RNA with DNase Cleanup]



Overall Results for sample 2 : Sample 2: 32, df, T=0

RNA Area:	165.8	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	1,467 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.5	Result Flagging Label:	RIN: 8.70

Fragment table for sample 2 : Sample 2: 32, df, T=0

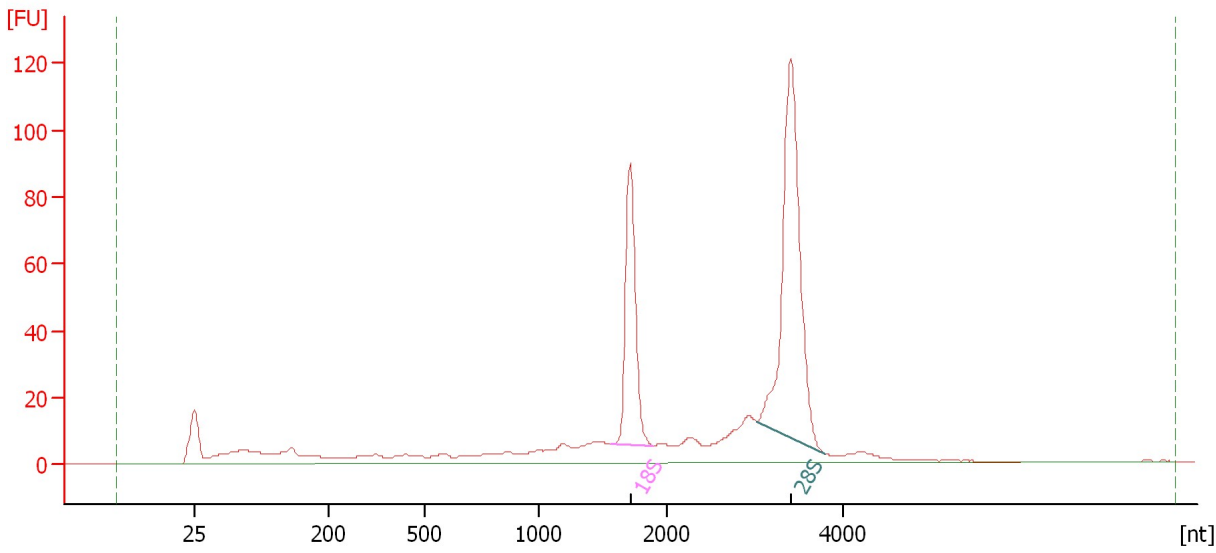
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,614	1,896	14.9	9.0
28S	2,619	4,006	52.3	31.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad

Created: 2/10/2016 2:56:15 PM
Modified: 2/10/2016 3:13:30 PM

Electropherogram Summary Continued ...

Sample 3: 33, wt, u, 6h [Total RNA with DNase Cleanup]



Overall Results for sample 3 : Sample 3: 33, wt, u, 6h

RNA Area:	644.8	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	5,706 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 8.80

Fragment table for sample 3 : Sample 3: 33, wt, u, 6h

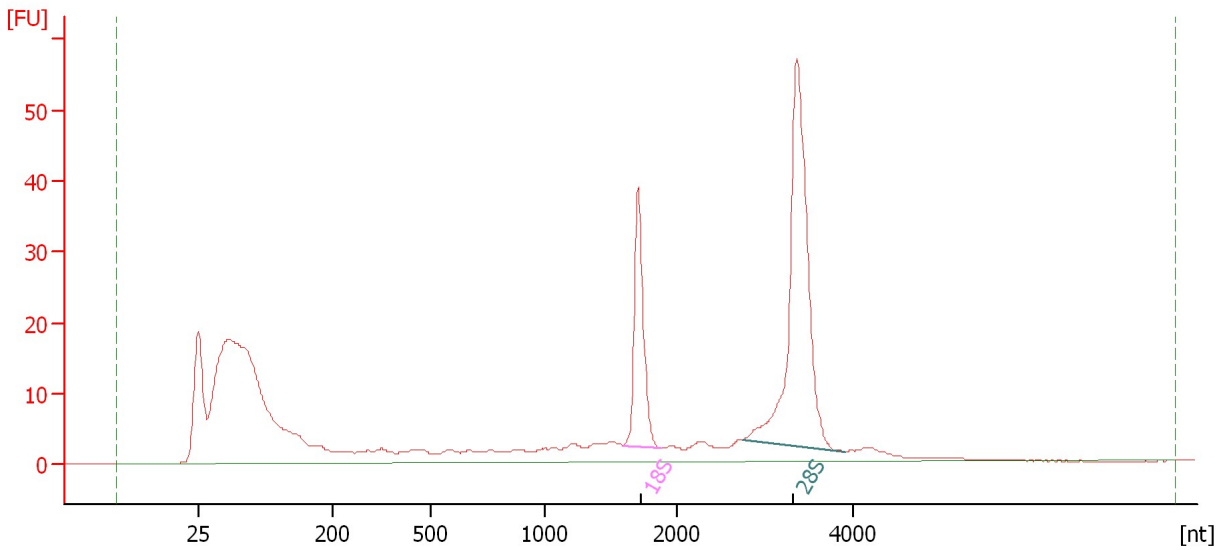
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,566	1,888	102.8	15.9
28S	3,022	3,806	206.1	32.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad

Created: 2/10/2016 2:56:15 PM
Modified: 2/10/2016 3:13:30 PM

Electropherogram Summary Continued ...

Sample 4: 34, wt, M, 6h [Total RNA with DNase Cleanup]



Overall Results for sample 4 : Sample 4: 34, wt, M, 6h

RNA Area: 468.5 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 4,146 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.5 Result Flagging Label: RIN: 8.50

Fragment table for sample 4 : Sample 4: 34, wt, M, 6h

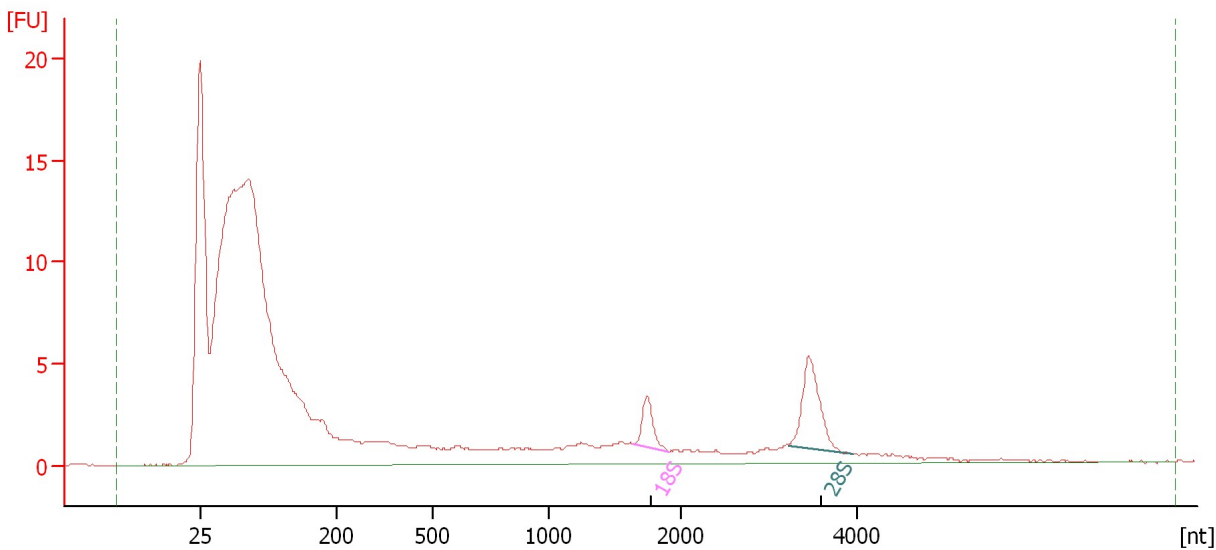
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,596	1,882	41.1	8.8
28S	2,748	3,926	104.6	22.3

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad

Created: 2/10/2016 2:56:15 PM
 Modified: 2/10/2016 3:13:30 PM

Electropherogram Summary Continued ...

Sample 5: 35, wt, M40, 6h [Total RNA with DNase Cleanup]



Overall Results for sample 5 : Sample 5: 35, wt, M40, 6h

RNA Area:	227.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2,012 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN N/A

Fragment table for sample 5 : Sample 5: 35, wt, M40, 6h

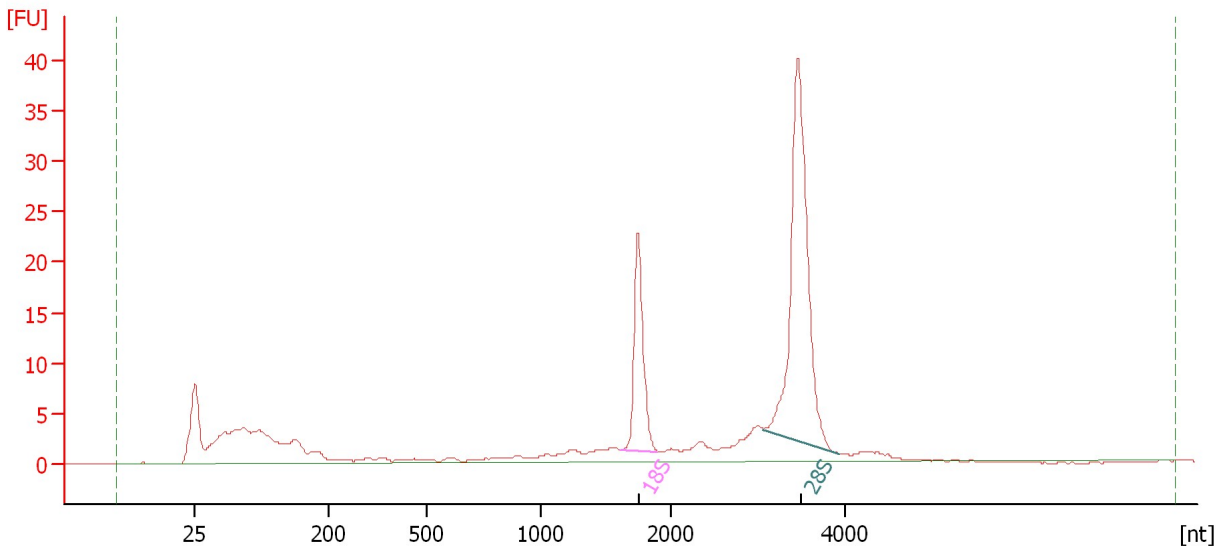
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,631	1,908	3.2	1.4
28S	3,218	3,943	8.2	3.6

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad

Created: 2/10/2016 2:56:15 PM
 Modified: 2/10/2016 3:13:30 PM

Electropherogram Summary Continued ...

Sample 6: 36, dF4, u, 6h [Total RNA with DNase Cleanup]



Overall Results for sample 6 : Sample 6: 36, dF4, u, 6h

RNA Area:	200.8	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	1,777 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.7	Result Flagging Label:	RIN: 9.20

Fragment table for sample 6 : Sample 6: 36, dF4, u, 6h

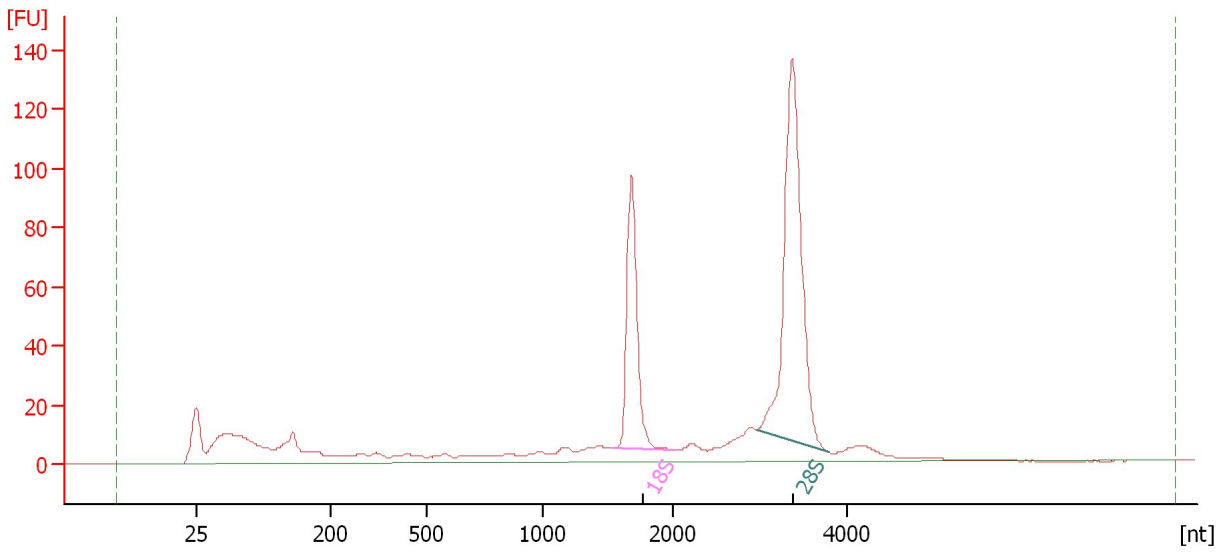
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,617	1,905	24.4	12.2
28S	3,069	3,937	65.8	32.8

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad

Created: 2/10/2016 2:56:15 PM
 Modified: 2/10/2016 3:13:30 PM

Electropherogram Summary Continued ...

Sample 7: 37, dF4, M, 6h [Total RNA with DNase Cleanup]



Overall Results for sample 7 : Sample 7: 37, dF4, M, 6h

RNA Area:	759.7	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	6,723 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.10

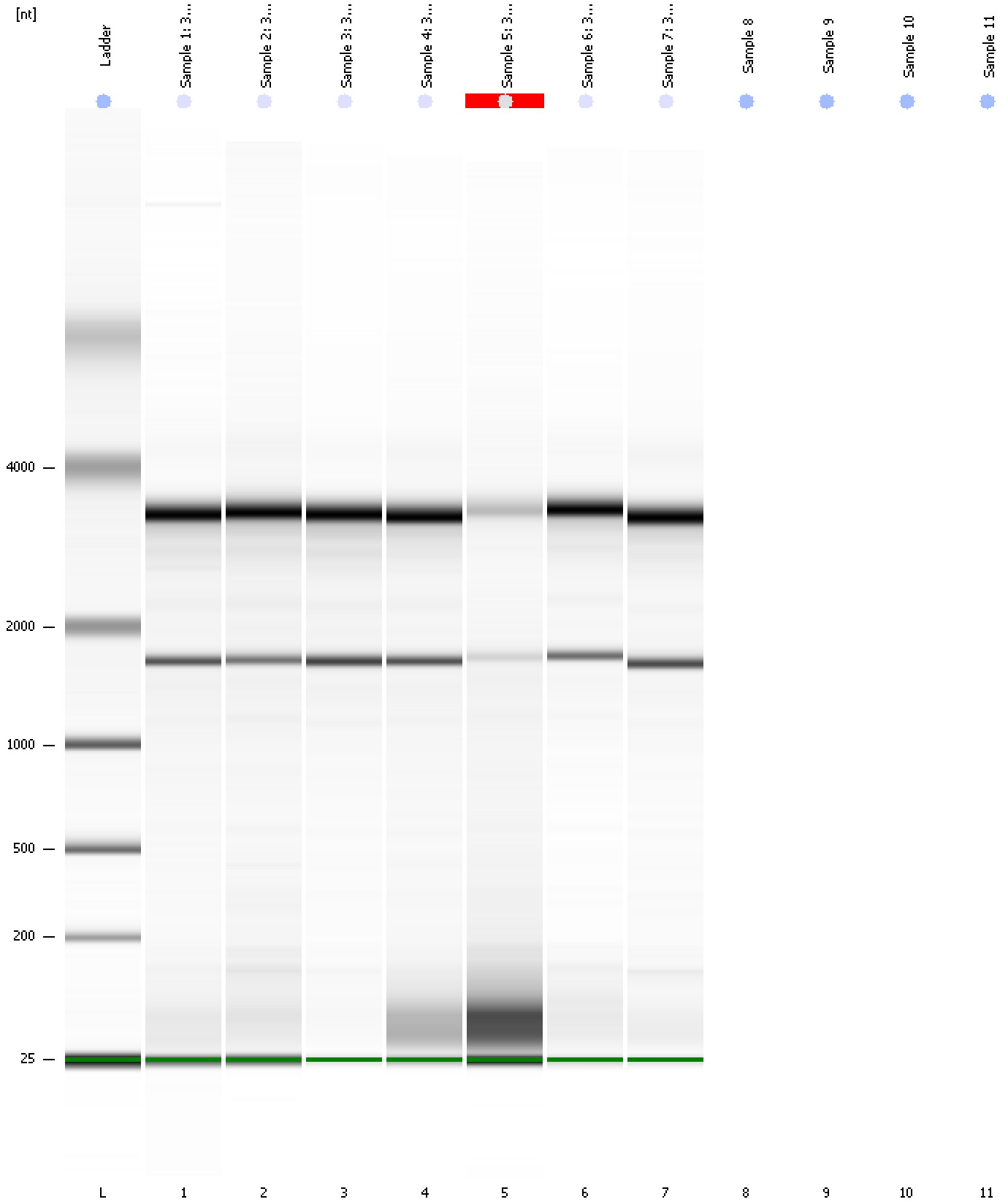
Fragment table for sample 7 : Sample 7: 37, dF4, M, 6h

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,544	2,043	116.2	15.3
28S	2,970	3,787	235.1	31.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad

Created: 2/10/2016 2:56:15 PM
Modified: 2/10/2016 3:13:30 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad

Created: 2/10/2016 2:56:15 PM
Modified: 2/10/2016 3:13:30 PM

Invalid Samples

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico Created: 2/10/2016 2:56:15 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad Modified: 2/10/2016 3:13:30 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		2/10/2016 3:13:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-02-10\2016-02-10_001.xad)		Instrument	Run		2/10/2016 2:56:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/10/2016 2:56:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/10/2016 2:56:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/10/2016 2:56:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/10/2016 2:56:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/10/2016 2:56:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/10/2016 2:56:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1