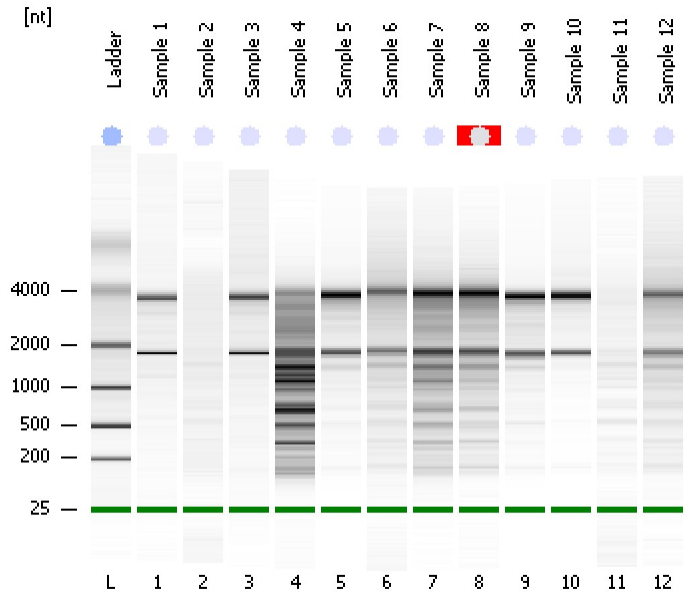


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

Electrophoresis File Run Summary



Instrument Information:

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

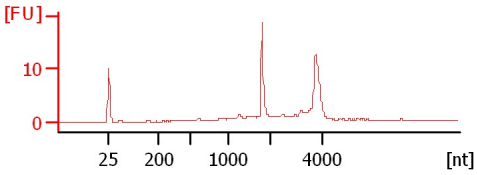
Assay Information:

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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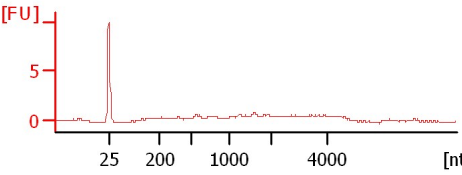
Chip Information:

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

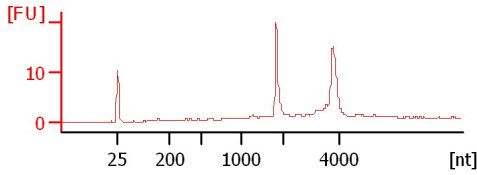
Sample 1
RIN: 8.40



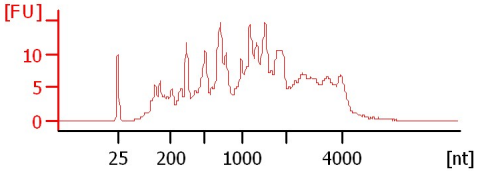
Sample 2
RIN: 2.10



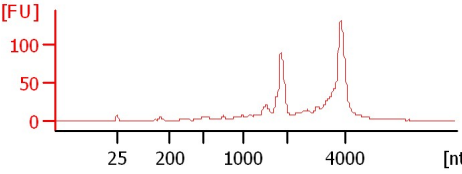
Sample 3
RIN: 8.70



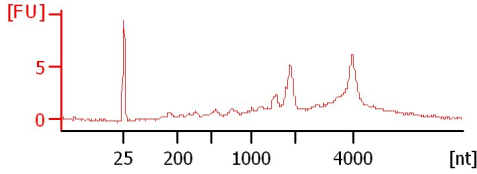
Sample 4
RIN: 3.10



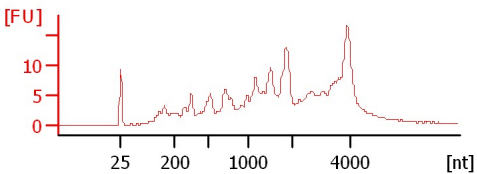
Sample 5
RIN: 8.60



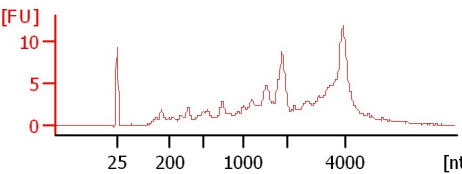
Sample 6
RIN: 6.70



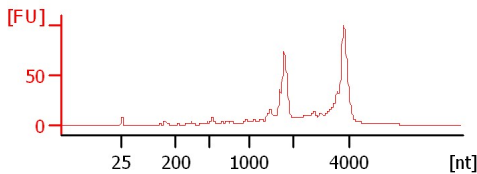
Sample 7
RIN: 6.40



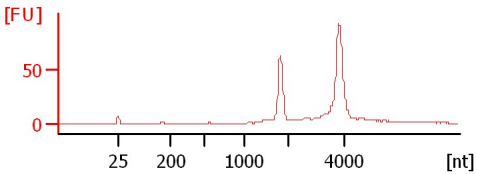
Sample 8
RIN N/A



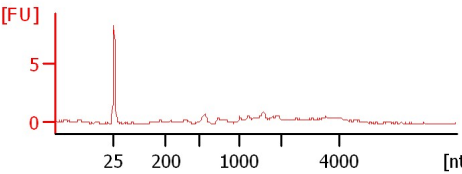
Sample 9
RIN: 8.60



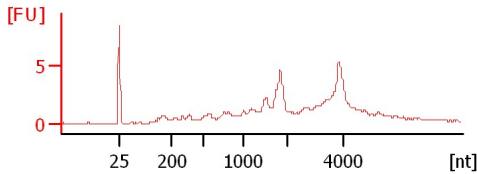
Sample 10
RIN: 10



Sample 11
RIN: 4



Sample 12
RIN: 6.60



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
 Modified: 9/5/2017 2:57:47 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 8.40	
Sample 2		✓	RIN: 2.10	
Sample 3		✓	RIN: 8.70	
Sample 4		✓	RIN: 3.10	
Sample 5		✓	RIN: 8.60	
Sample 6		✓	RIN: 6.70	
Sample 7		✓	RIN: 6.40	
Sample 8		✓	RIN N/A	
Sample 9		✓	RIN: 8.60	
Sample 10		✓	RIN:10	
Sample 11		✓	RIN:4	
Sample 12		✓	RIN: 6.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 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

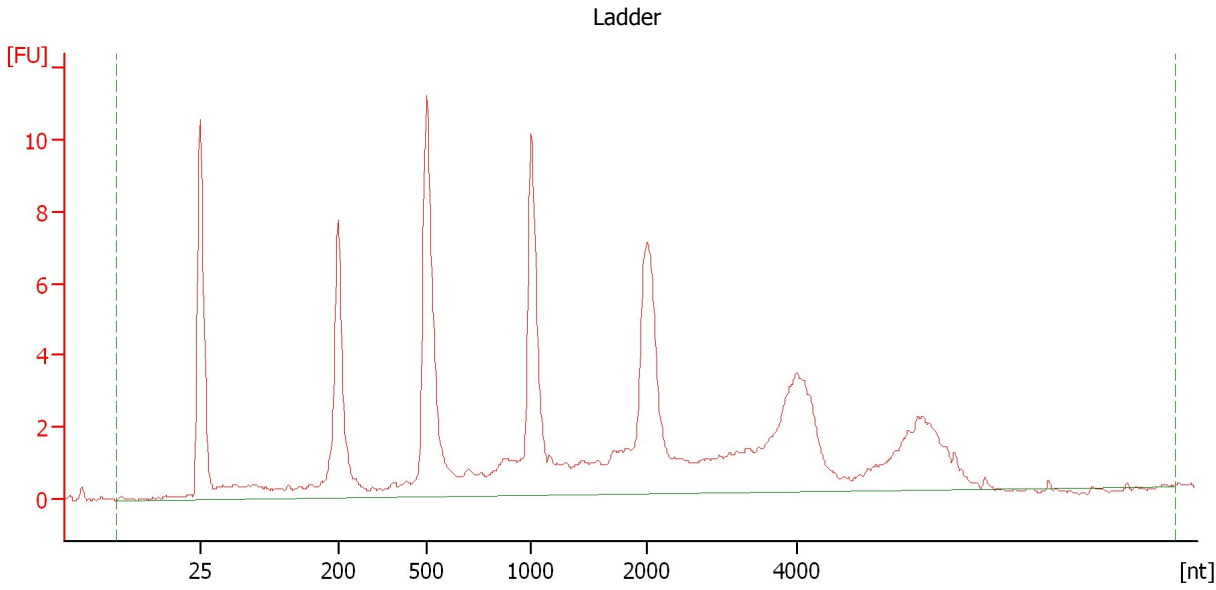
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

Electropherogram Summary



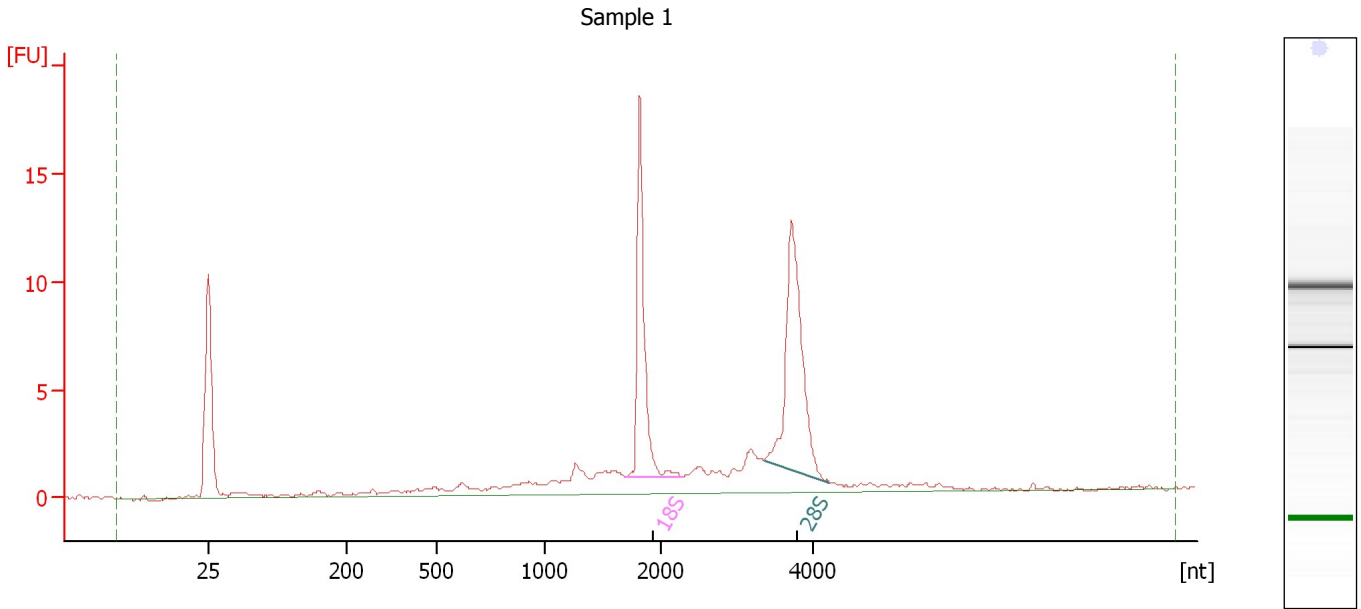
Overall Results for Ladder

RNA Area:	116.1	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	78.7	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	102 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.40

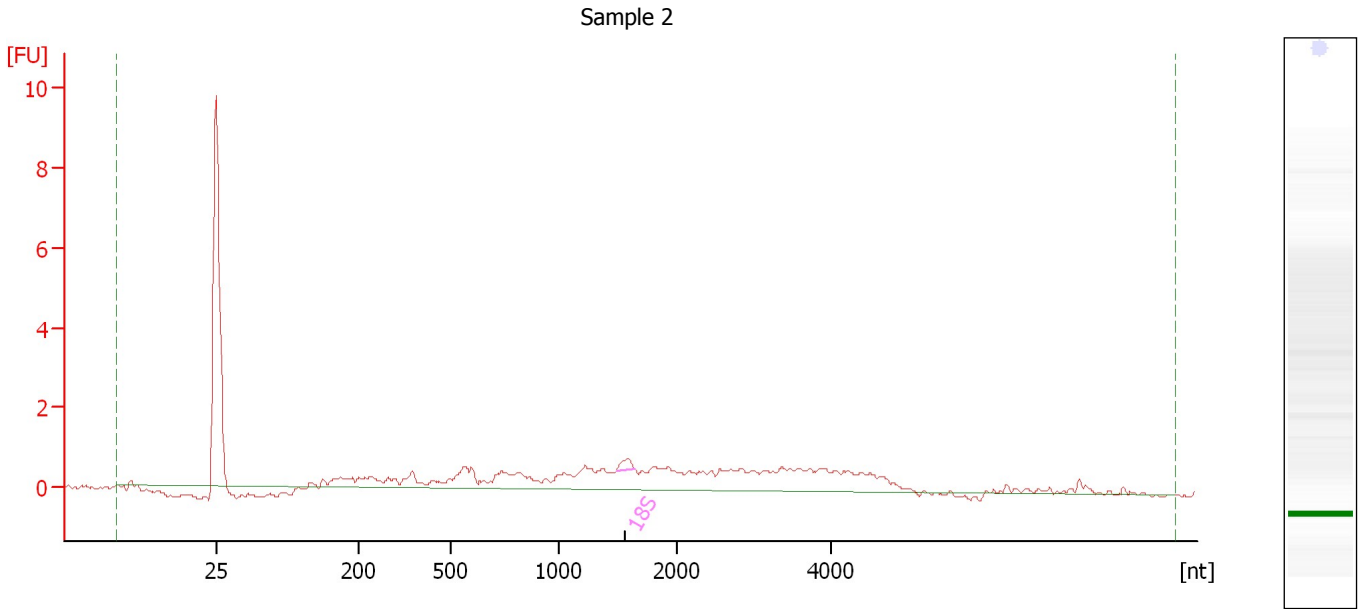
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	2,292	15.2	19.3
28S	3,361	4,220	19.3	24.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	24.2	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	31 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

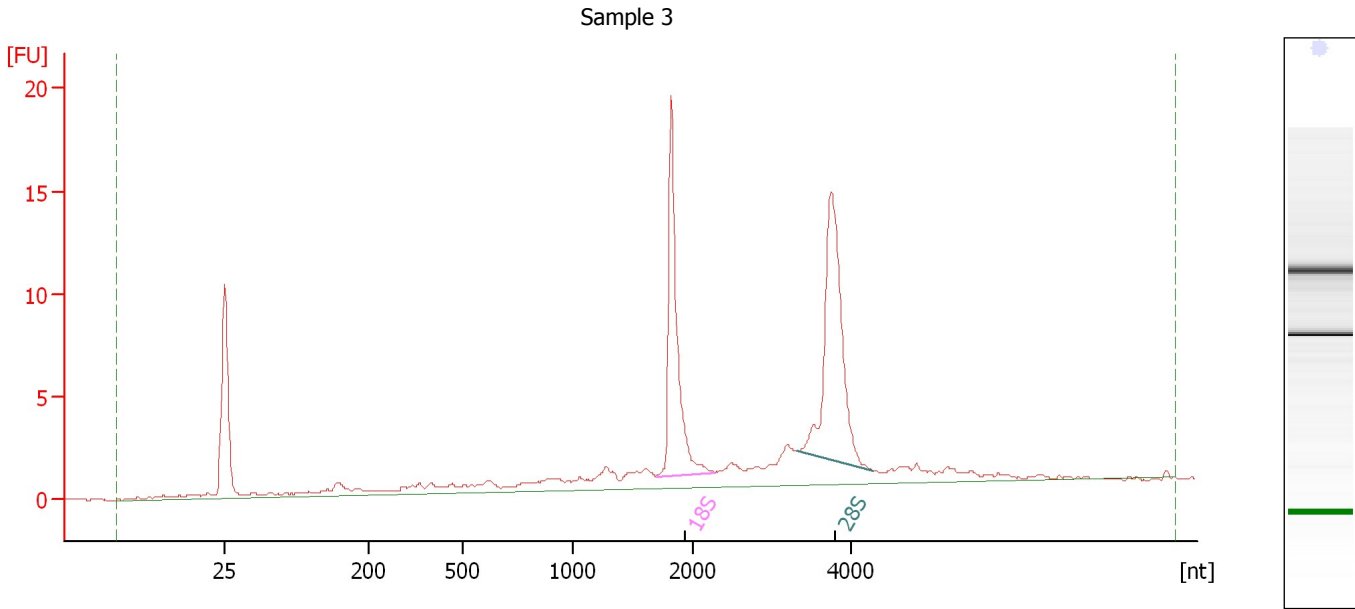
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,485	1,646	0.4	1.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	89.9	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	116 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.70

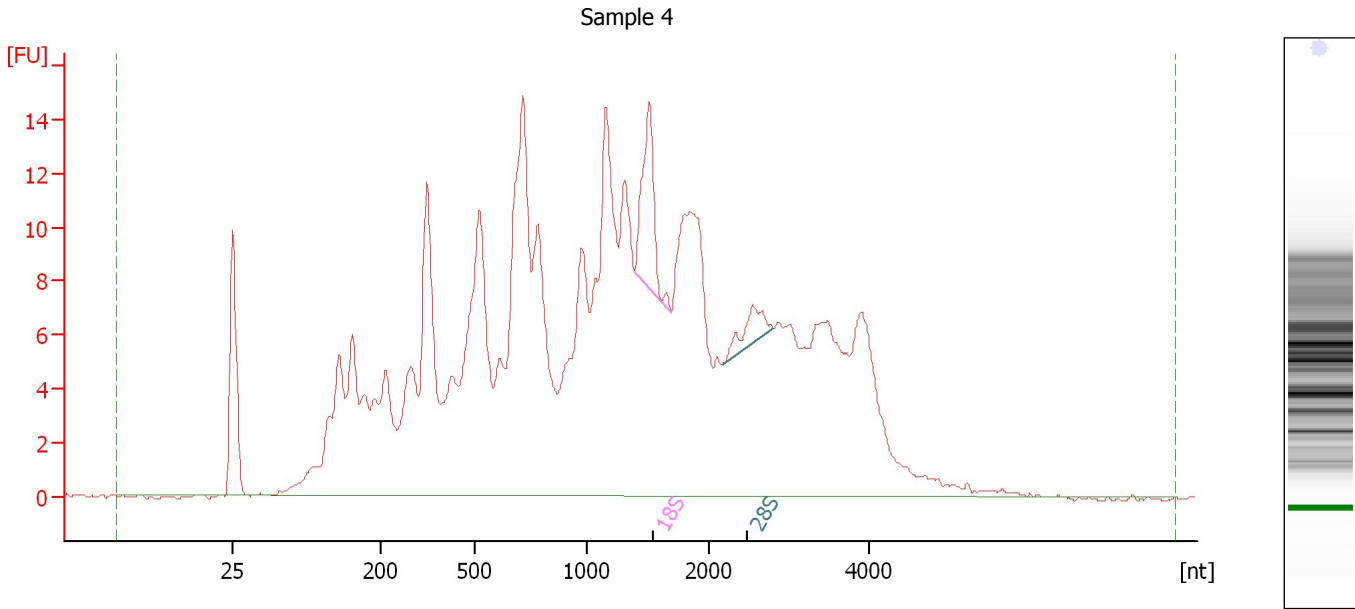
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,695	2,278	18.1	20.2
28S	3,327	4,293	22.9	25.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area:	428.4	RNA Integrity Number (RIN):	3.1 (B.02.08)
RNA Concentration:	554 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN: 3.10

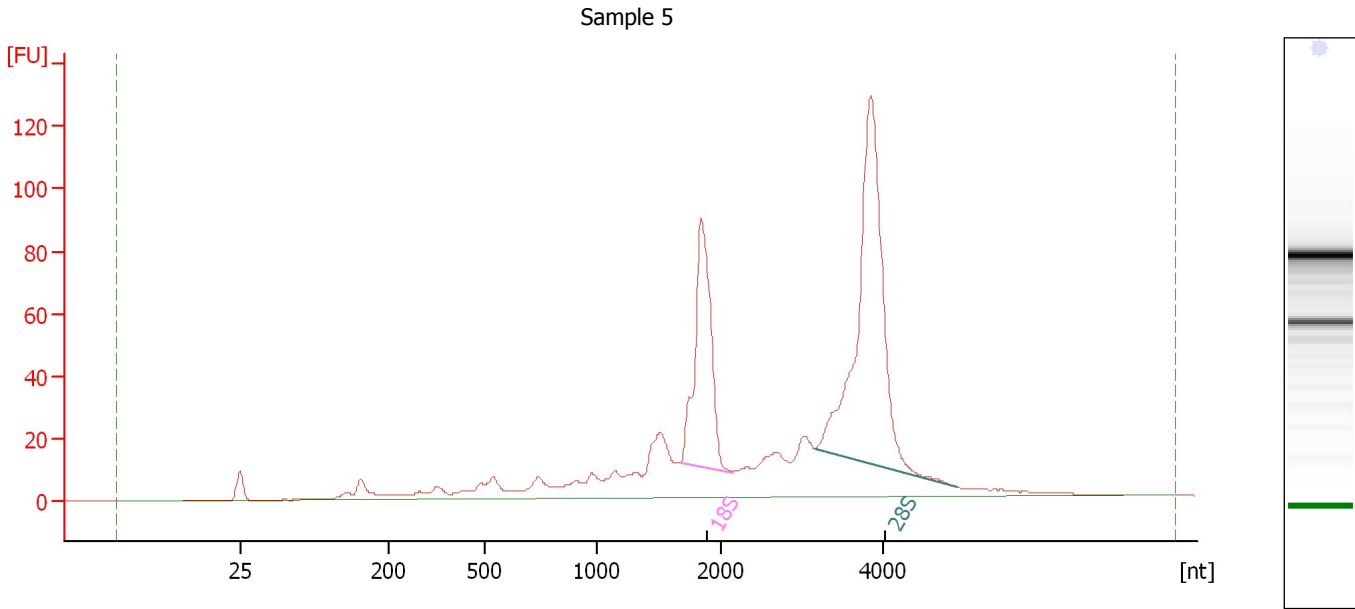
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,386	1,690	9.6	2.3
28S	2,164	2,781	3.1	0.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	923.0	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	1,193 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 8.60

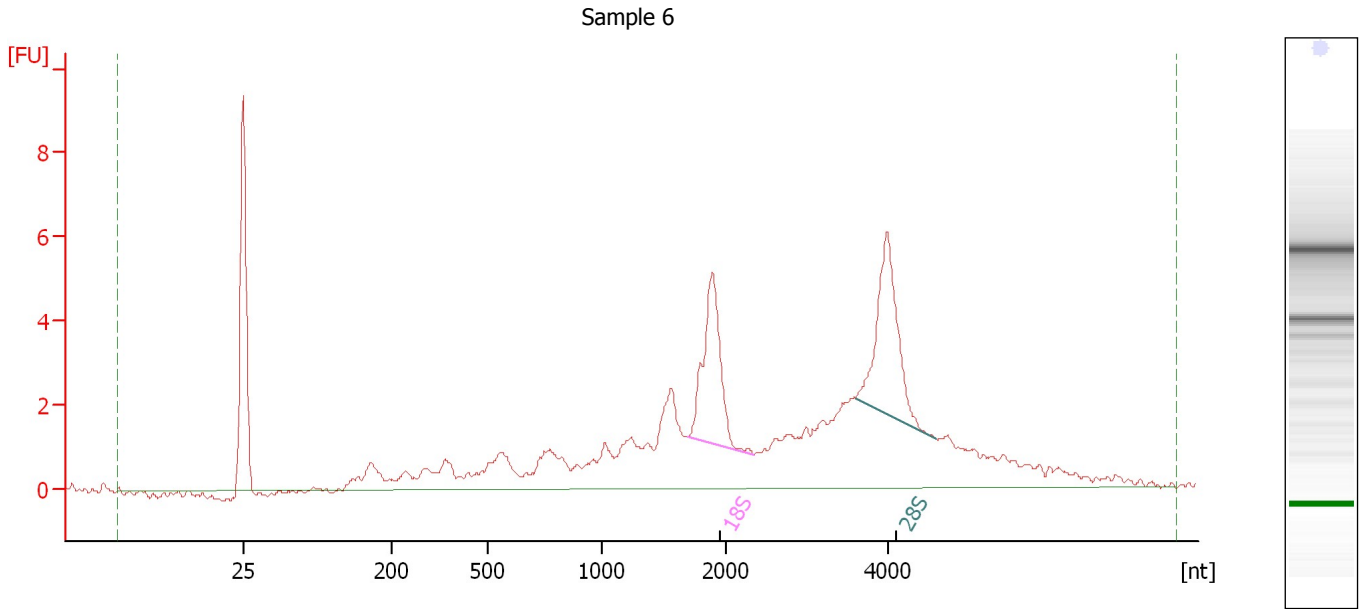
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,664	2,131	147.1	15.9
28S	3,151	4,911	287.8	31.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area: 82.5 RNA Integrity Number (RIN): 6.7 (B.02.08)
RNA Concentration: 107 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 6.70

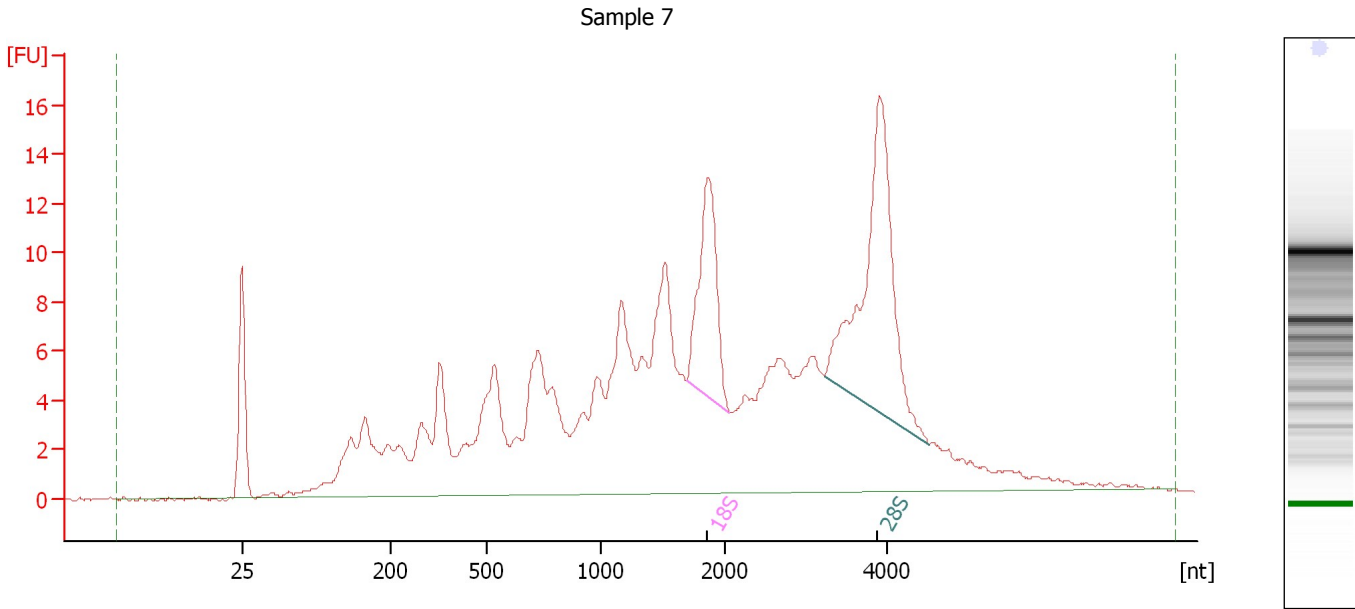
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,693	2,331	7.8	9.5
28S	3,584	4,573	8.5	10.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	306.8	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	396 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 6.40

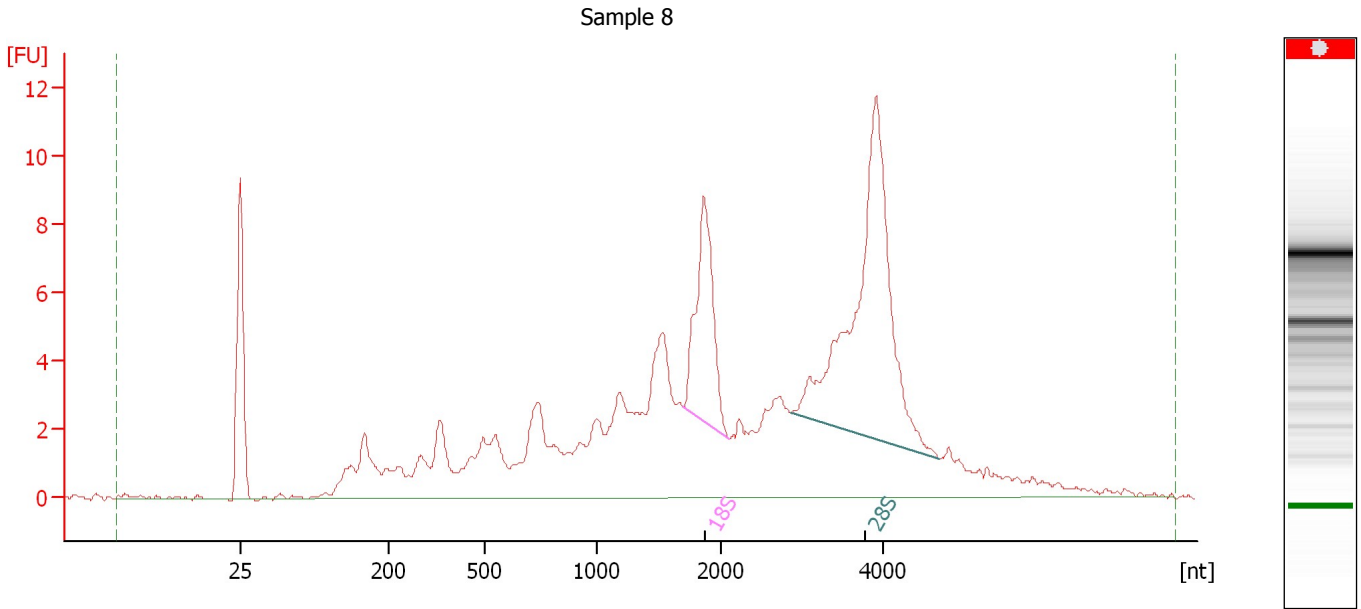
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,685	2,041	17.9	5.8
28S	3,215	4,507	35.4	11.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	170.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	220 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.7	Result Flagging Label:	RIN N/A

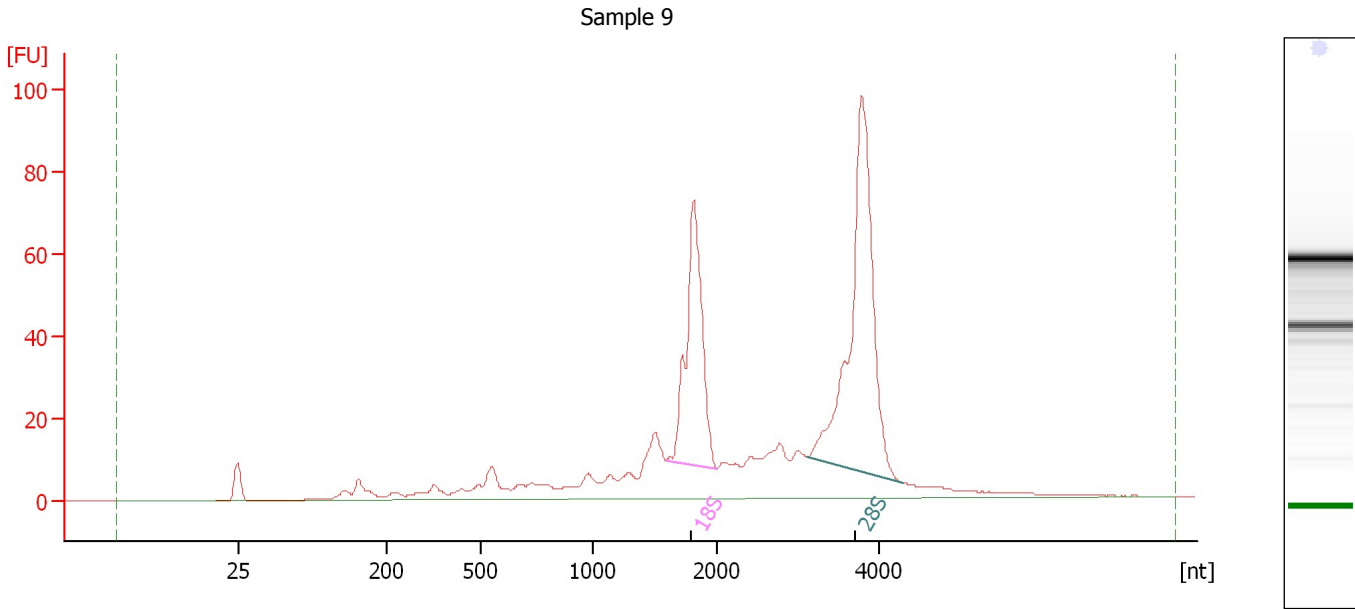
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,690	2,078	12.7	7.5
28S	2,846	4,686	33.9	19.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	672.3	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	869 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.60

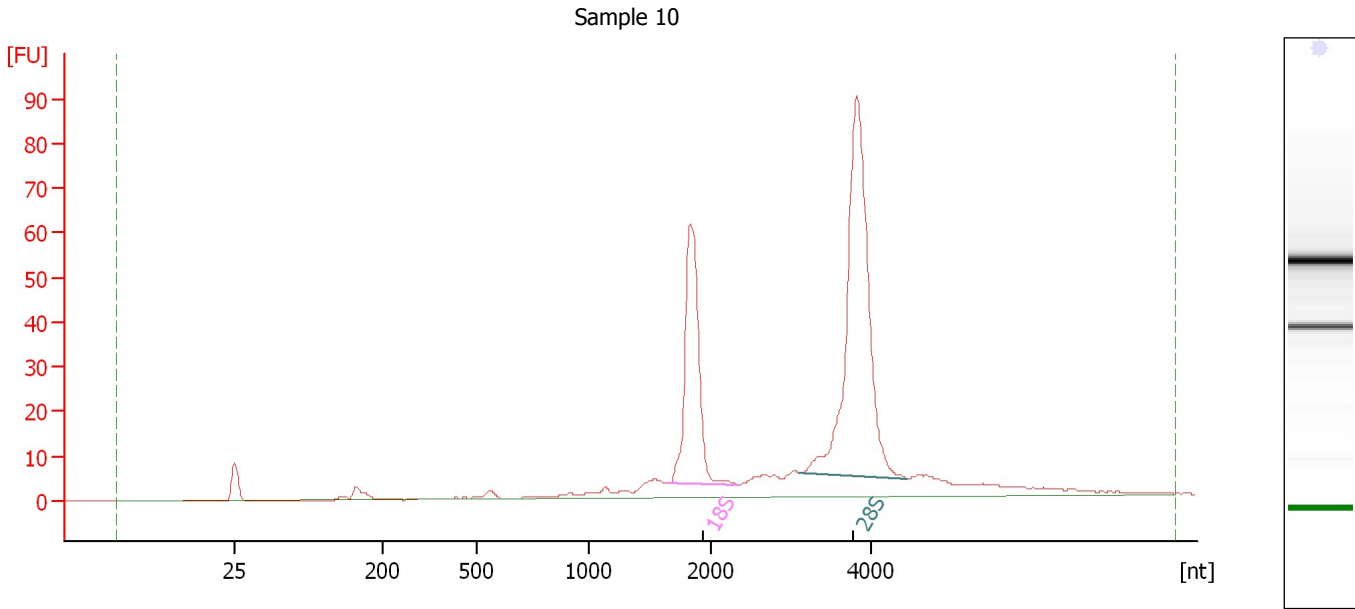
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	1,989	116.5	17.3
28S	3,113	4,295	201.0	29.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area: 426.0 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 550 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN:10

Fragment table for sample 10 : Sample 10

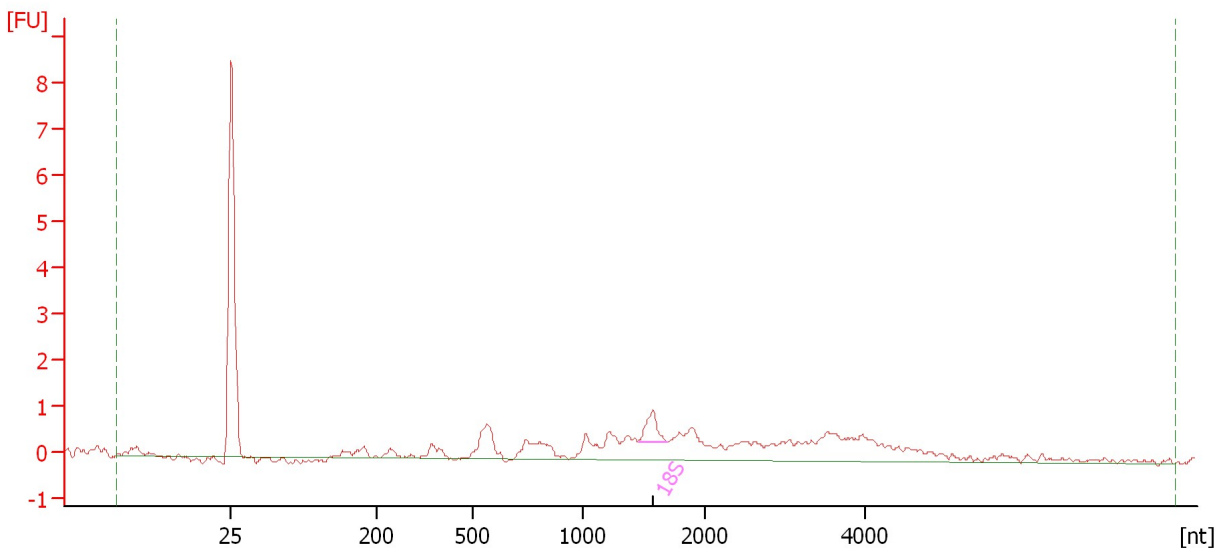
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,630	2,339	92.5	21.7
28S	3,102	4,452	180.4	42.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

Electropherogram Summary Continued ...

Sample 11



Overall Results for sample 11 : Sample 11

RNA Area:	21.4	RNA Integrity Number (RIN):	4 (B.02.08)
RNA Concentration:	28 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:4

Fragment table for sample 11 : Sample 11

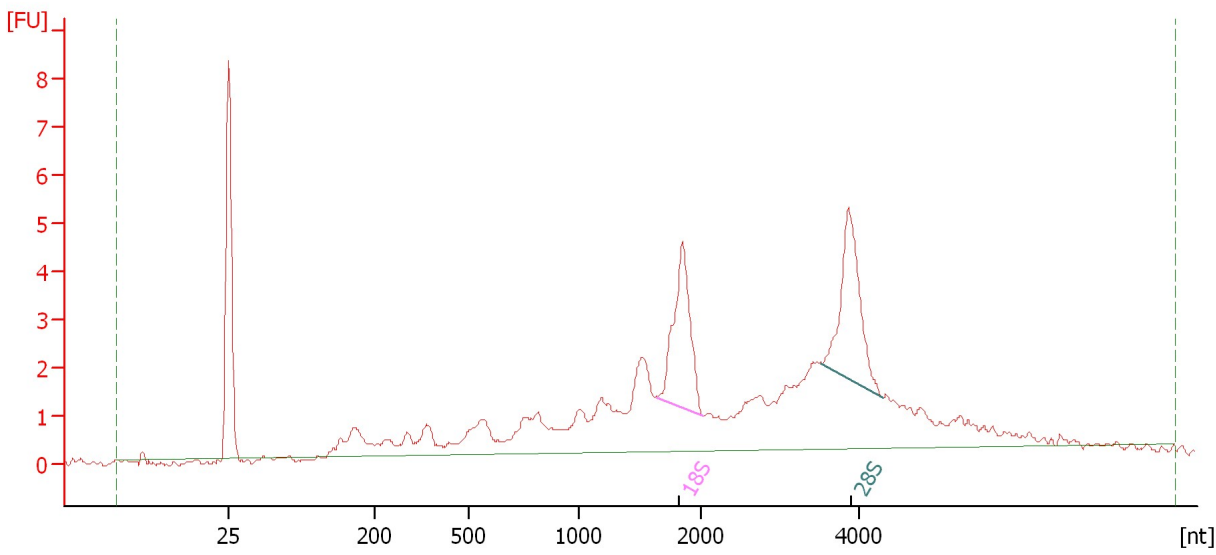
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,451	1,678	0.9	4.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

Electropherogram Summary Continued ...

Sample 12



Overall Results for sample 12 : Sample 12

RNA Area:	67.0	RNA Integrity Number (RIN):	6.6 (B.02.08)
RNA Concentration:	87 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 6.60

Fragment table for sample 12 : Sample 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,640	2,011	6.6	9.8
28S	3,511	4,294	6.7	10.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_002.xad

Created: 9/5/2017 2:33:58 PM
Modified: 9/5/2017 2:57:47 PM

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