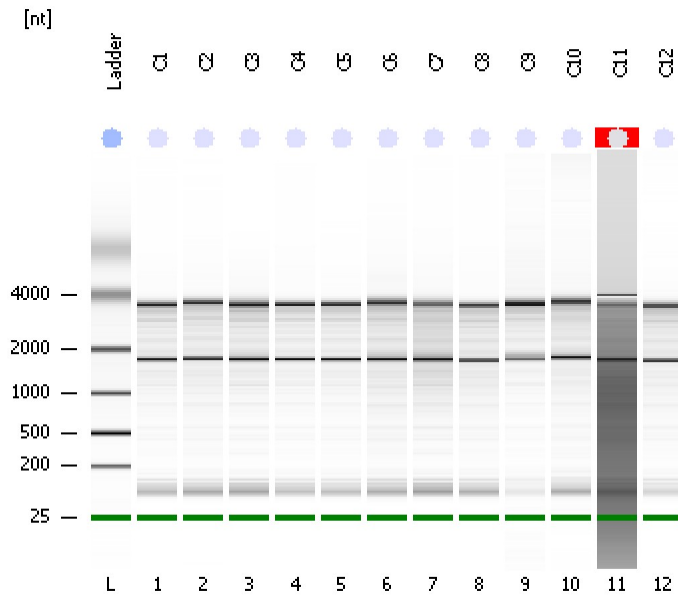


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
Modified: 11/20/2013 1:54:37 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

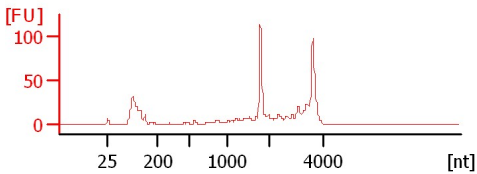
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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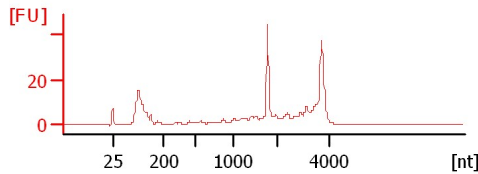
Chip Information:

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

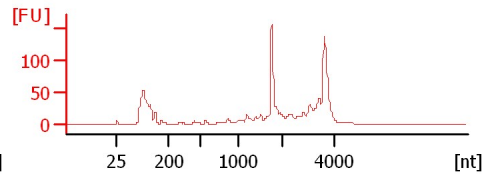
C1
RIN: 7.50



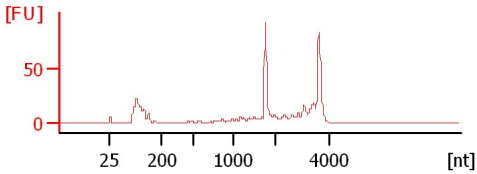
C2
RIN: 7.70



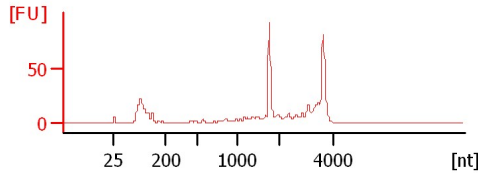
C3
RIN: 7.50



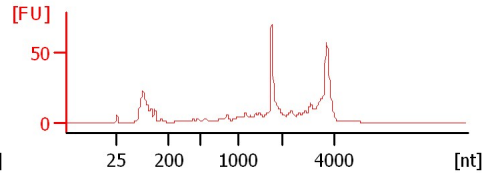
C4
RIN: 7.80



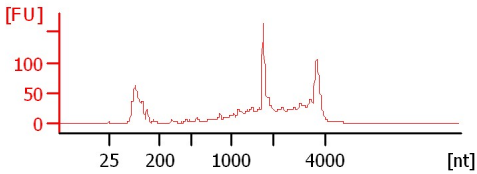
C5
RIN: 7.70



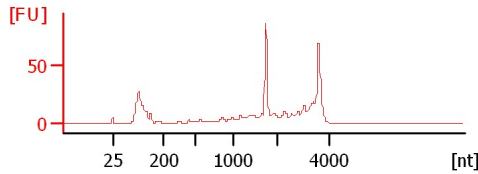
C6
RIN: 7.60



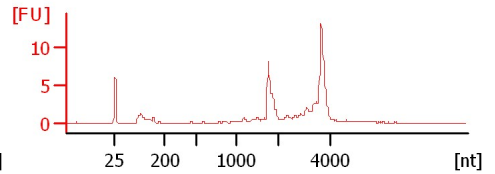
C7
RIN: 6.70



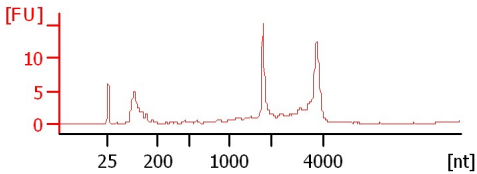
C8
RIN: 7.30



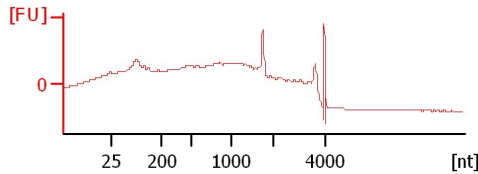
C9
RIN: 9.10



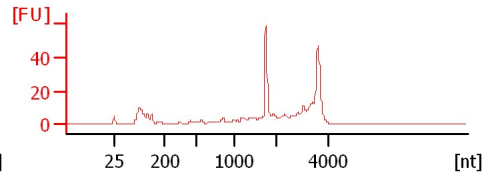
C10
RIN: 8.30



C11
RIN N/A



C12
RIN: 7.80



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
 Modified: 11/20/2013 1:54:37 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
C1		✓	RIN: 7.50	
C2		✓	RIN: 7.70	
C3		✓	RIN: 7.50	
C4		✓	RIN: 7.80	
C5		✓	RIN: 7.70	
C6		✓	RIN: 7.60	
C7		✓	RIN: 6.70	
C8		✓	RIN: 7.30	
C9		✓	RIN: 9.10	
C10		✓	RIN: 8.30	
C11		✓	RIN N/A	
C12		✓	RIN: 7.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
Modified: 11/20/2013 1:54:37 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ 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] : 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

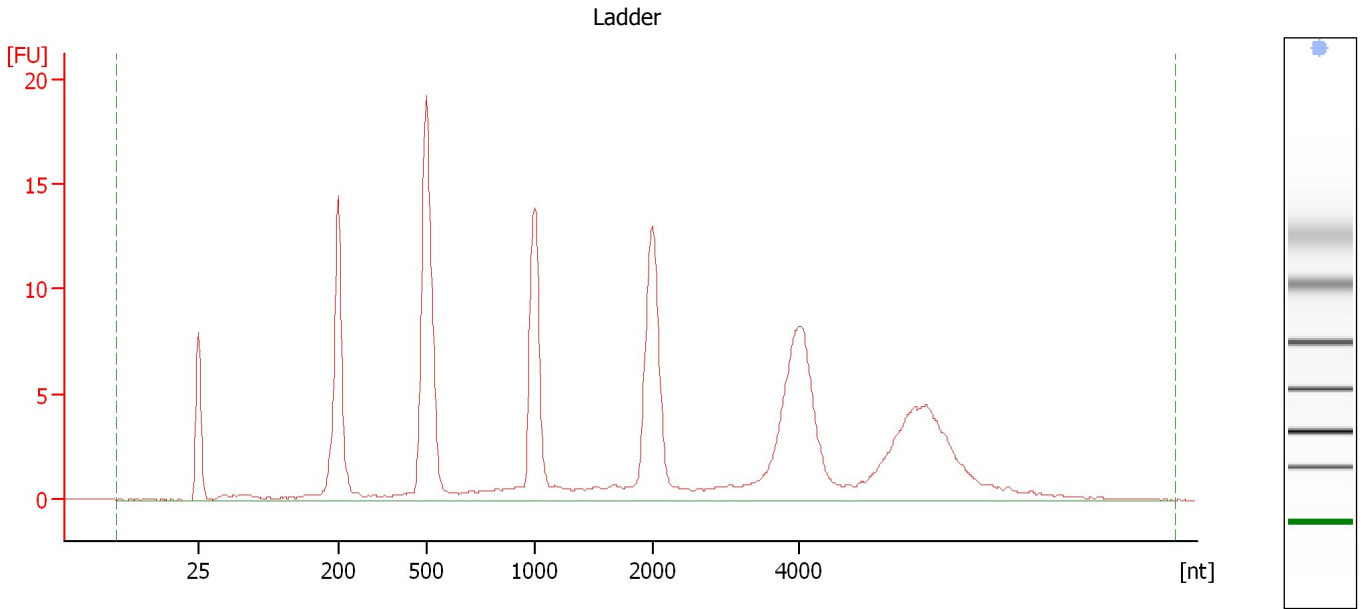
Ladder

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\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
Modified: 11/20/2013 1:54:37 PM

Electropherogram Summary



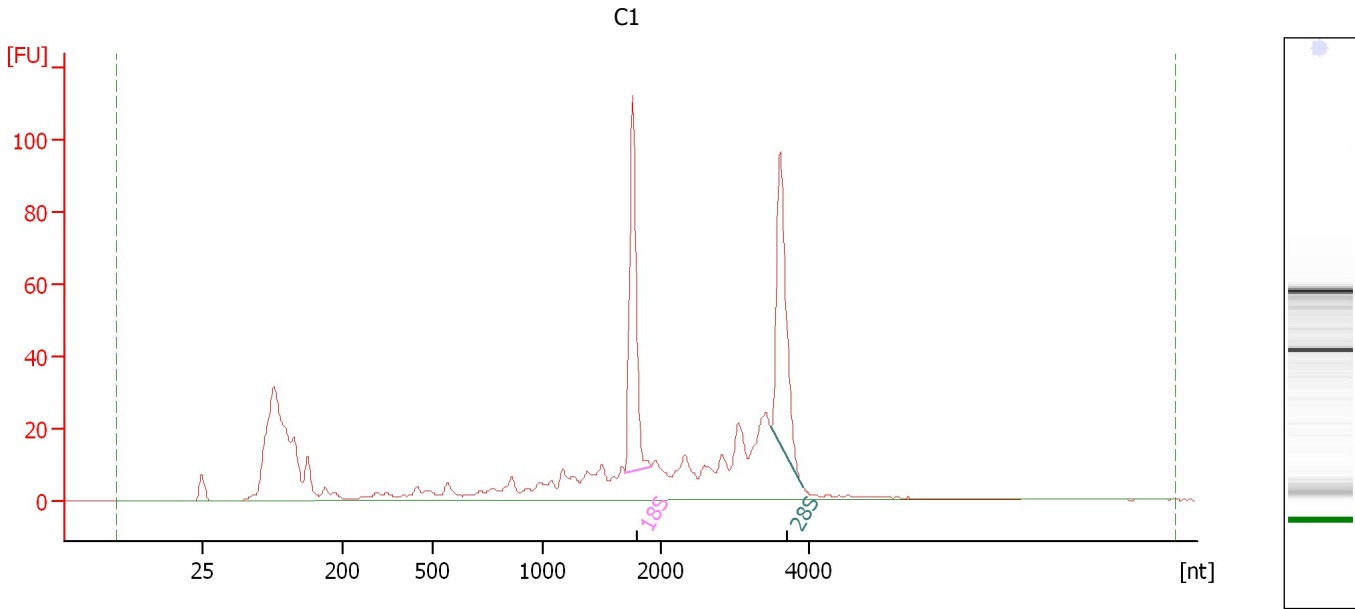
Overall Results for Ladder

RNA Area:	172.3	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\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
Modified: 11/20/2013 1:54:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : C1

RNA Area:	670.3	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	584 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.50

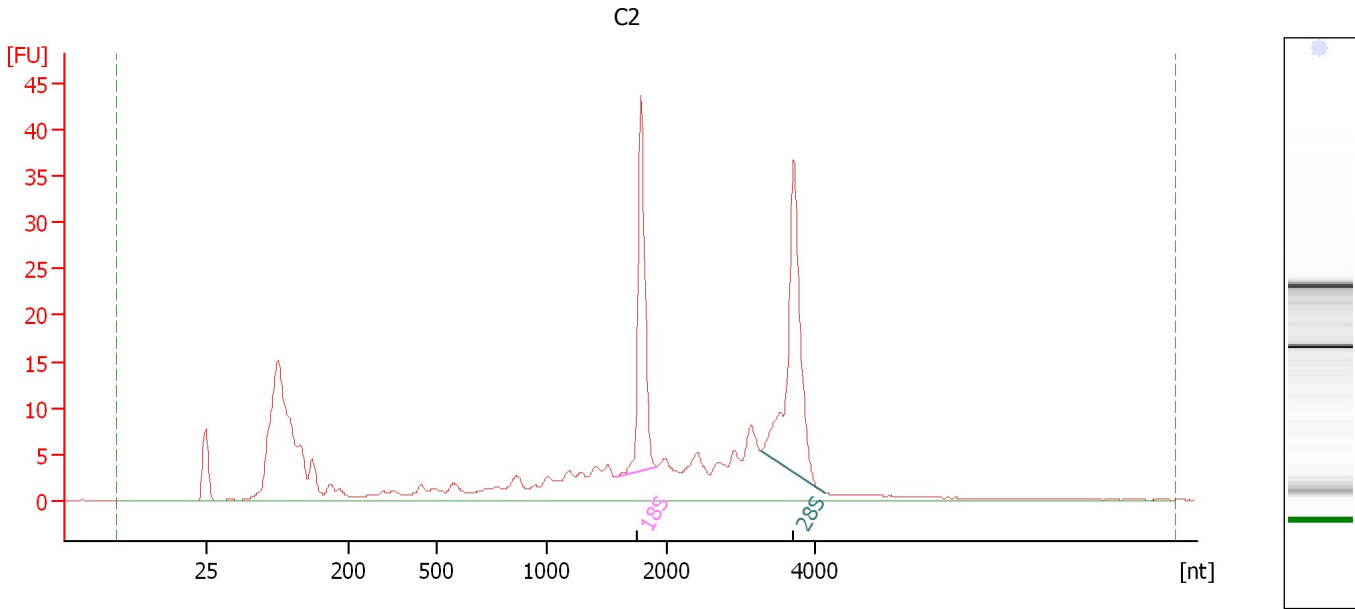
Fragment table for sample 1 : C1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	1,922	85.8	12.8
28S	3,495	3,930	84.1	12.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
Modified: 11/20/2013 1:54:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : C2

RNA Area:	289.8	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	252 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.70

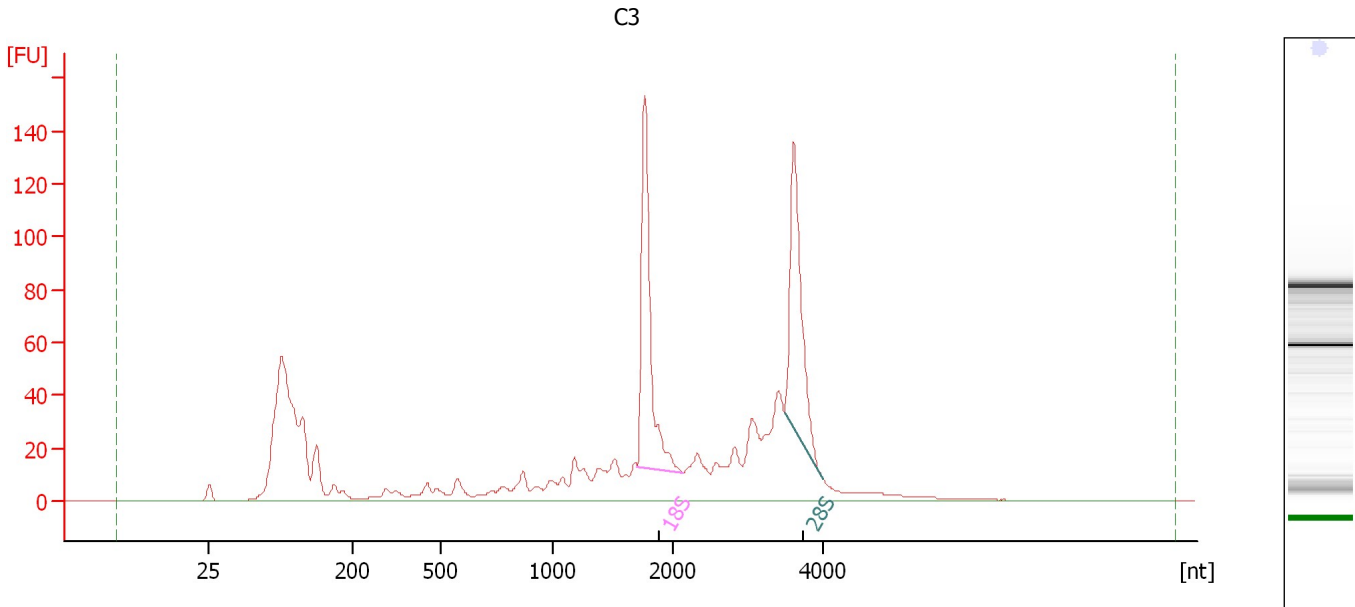
Fragment table for sample 2 : C2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	1,924	33.8	11.7
28S	3,260	4,123	46.4	16.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
 Modified: 11/20/2013 1:54:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : C3

RNA Area:	1,121.2	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	976 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 7.50

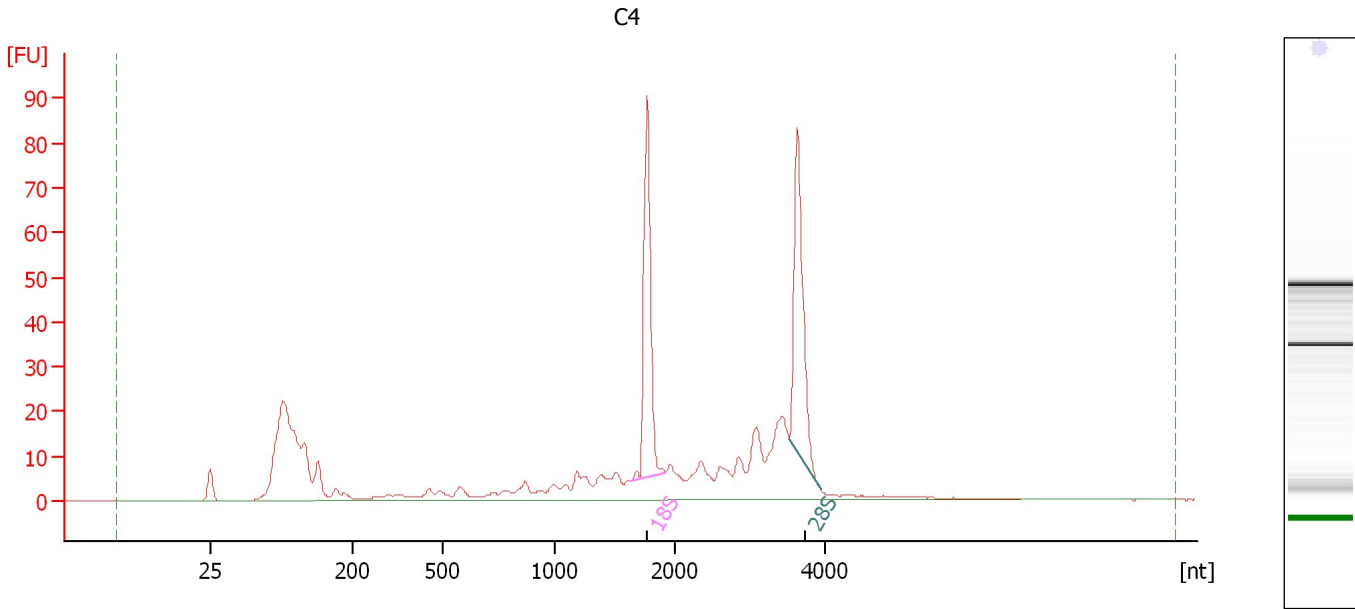
Fragment table for sample 3 : C3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	2,141	144.1	12.9
28S	3,498	3,999	130.8	11.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
Modified: 11/20/2013 1:54:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : C4

RNA Area: 493.8 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 430 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 7.80

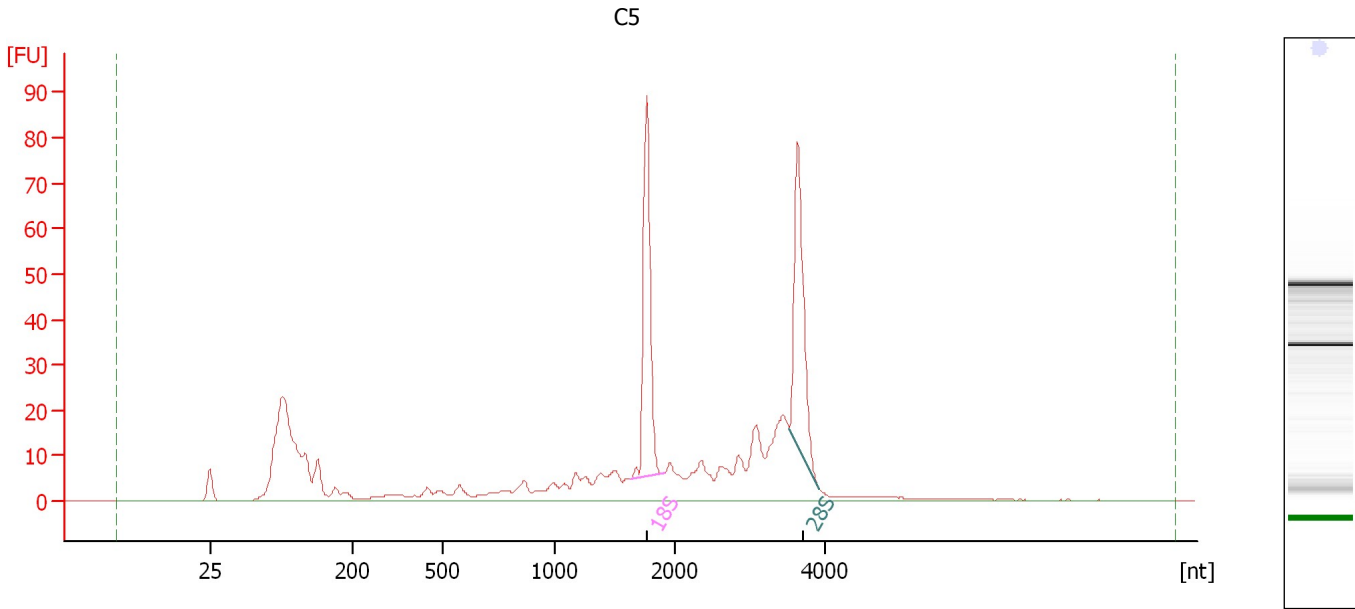
Fragment table for sample 4 : C4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	1,919	67.0	13.6
28S	3,525	3,939	68.0	13.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
Modified: 11/20/2013 1:54:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : C5

RNA Area: 503.2 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 438 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 7.70

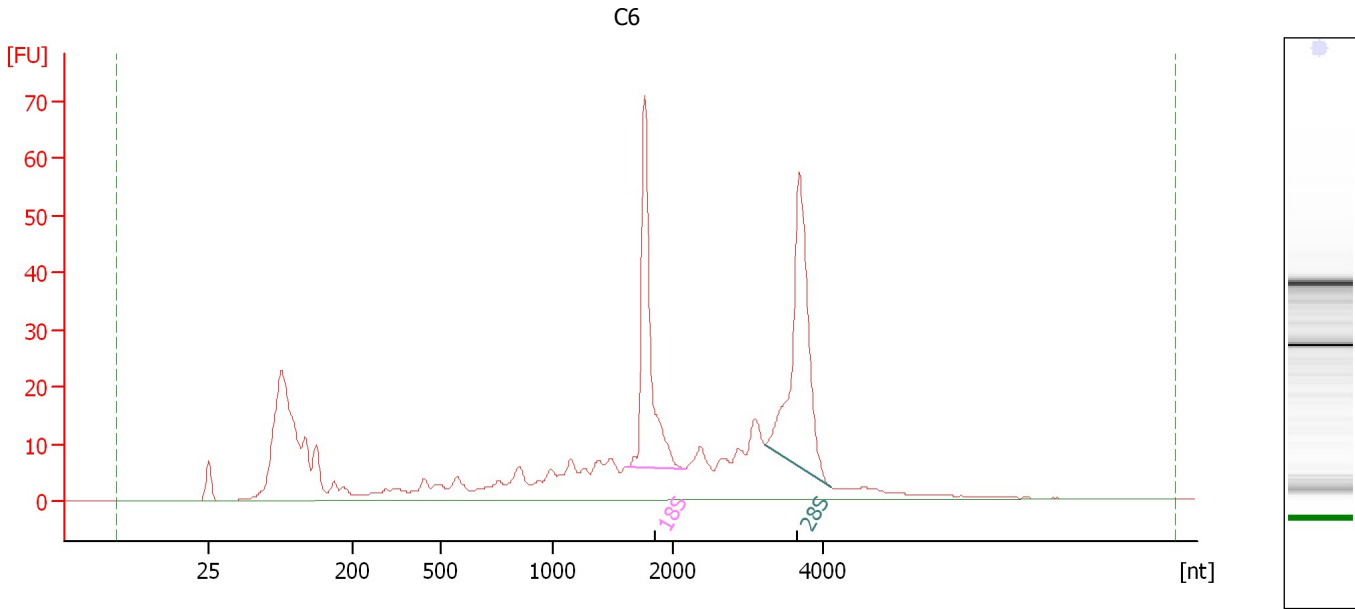
Fragment table for sample 5 : C5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	1,910	68.4	13.6
28S	3,525	3,924	65.1	12.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
Modified: 11/20/2013 1:54:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : C6

RNA Area: 542.0 RNA Integrity Number (RIN): 7.6 (B.02.08)
RNA Concentration: 472 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 7.60

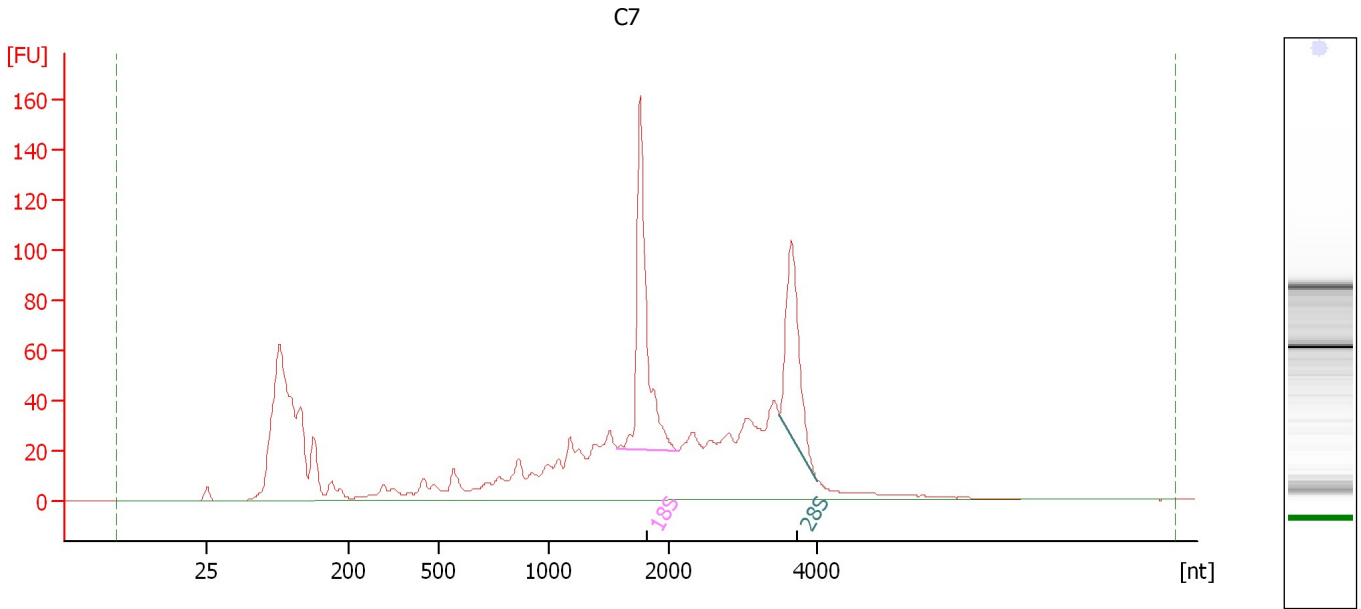
Fragment table for sample 6 : C6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	2,155	68.5	12.6
28S	3,227	4,113	86.6	16.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
Modified: 11/20/2013 1:54:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : C7

RNA Area:	1,417.7	RNA Integrity Number (RIN):	6.7 (B.02.08)
RNA Concentration:	1,234 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 6.70

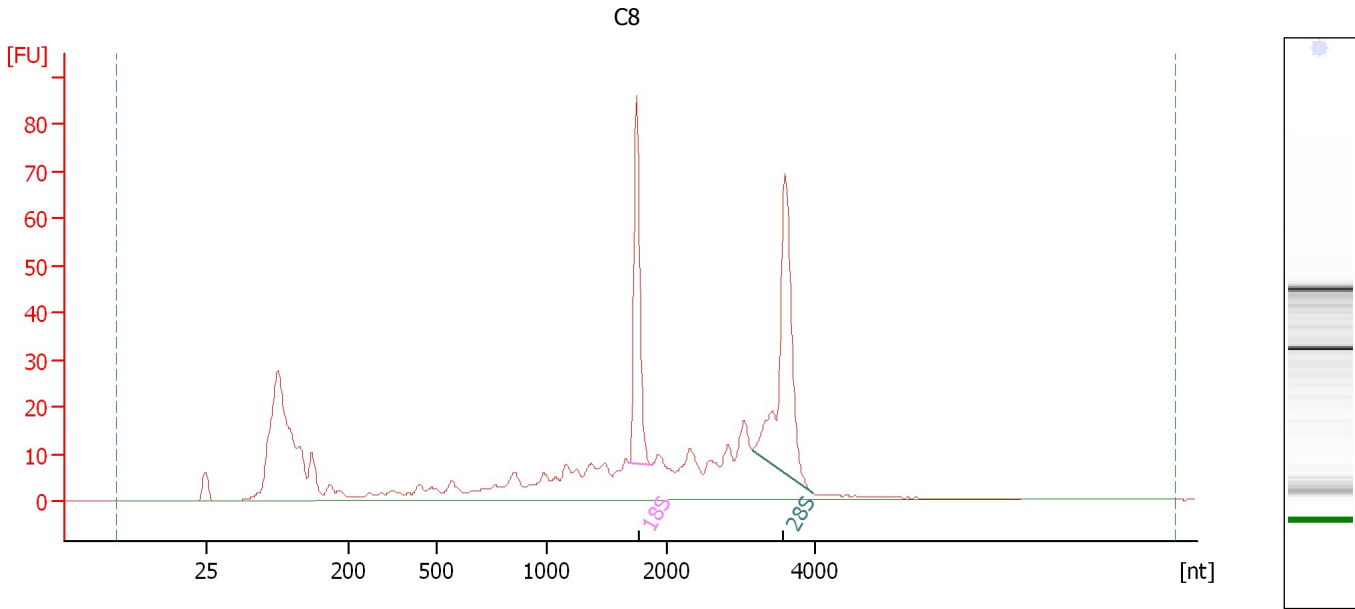
Fragment table for sample 7 : C7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,568	2,124	164.0	11.6
28S	3,488	4,005	103.3	7.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
Modified: 11/20/2013 1:54:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : C8

RNA Area: 553.4 RNA Integrity Number (RIN): 7.3 (B.02.08)
RNA Concentration: 482 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 7.30

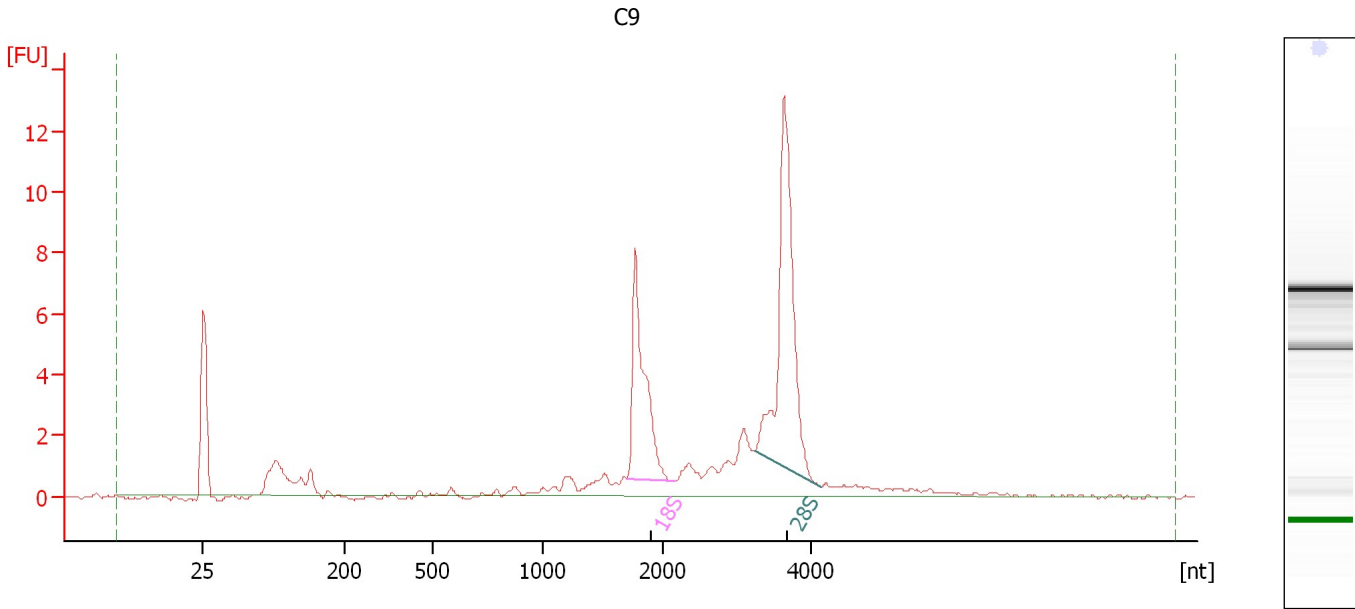
Fragment table for sample 8 : C8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,683	1,871	60.3	10.9
28S	3,159	3,964	84.3	15.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
 Modified: 11/20/2013 1:54:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : C9

RNA Area:	60.0	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	52 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.10

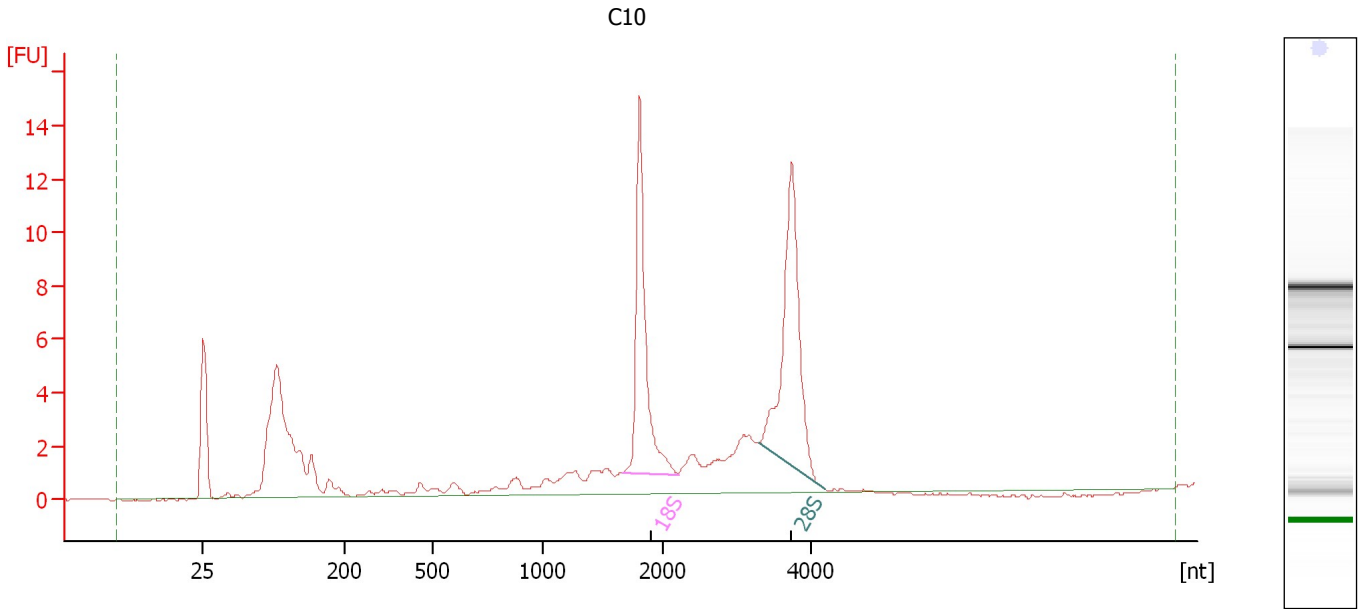
Fragment table for sample 9 : C9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,698	2,179	11.1	18.5
28S	3,248	4,129	18.4	30.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
 Modified: 11/20/2013 1:54:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : C10

RNA Area:	93.5	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	81 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.30

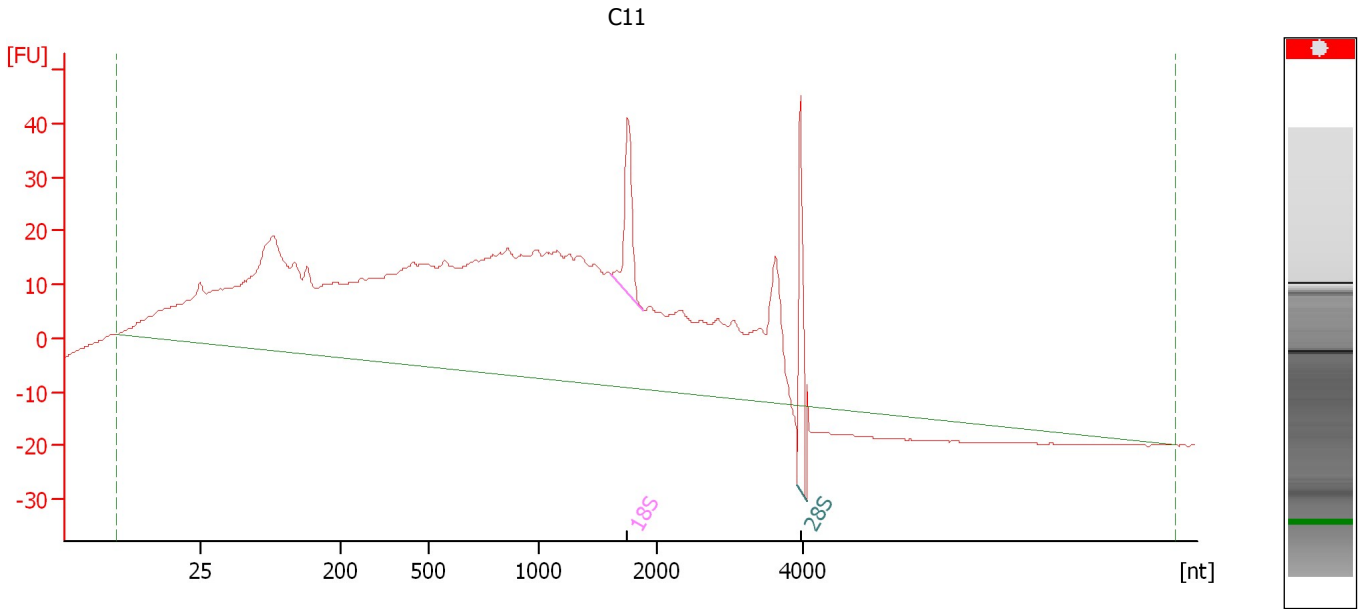
Fragment table for sample 10 : C10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,662	2,208	15.7	16.8
28S	3,306	4,201	19.0	20.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
Modified: 11/20/2013 1:54:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : C11

RNA Area: 1,345.2 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 1,171 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN N/A

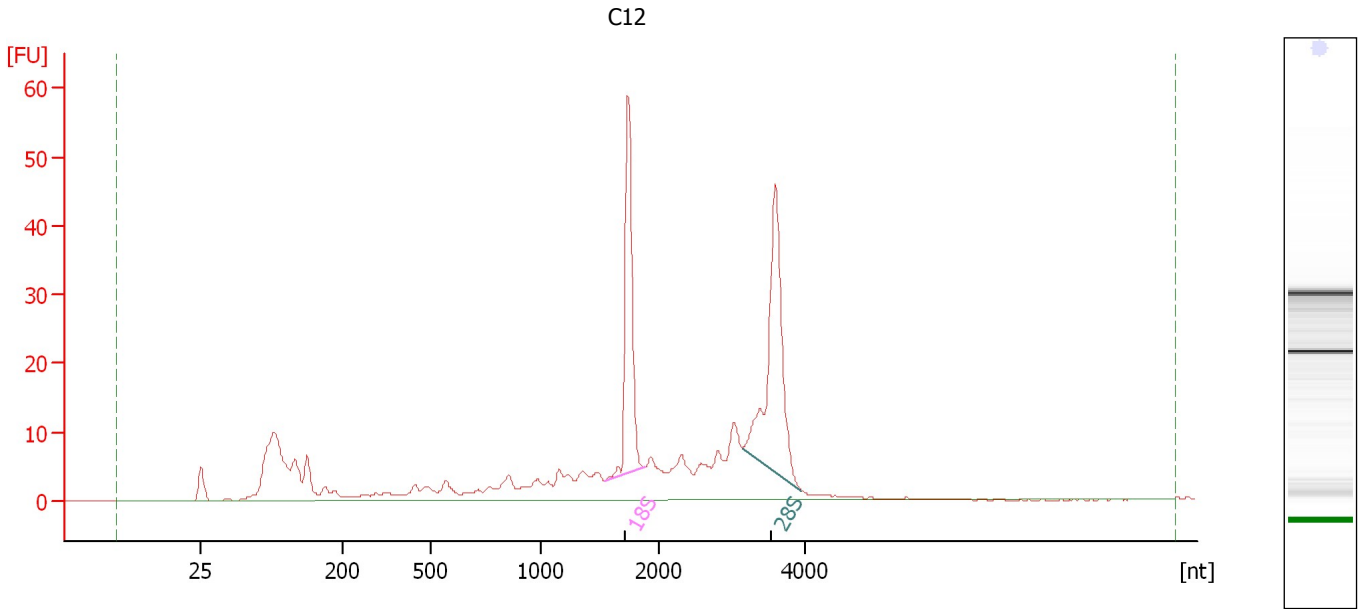
Fragment table for sample 11 : C11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,621	1,892	27.9	2.1
28S	3,921	4,037	30.0	2.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
Modified: 11/20/2013 1:54:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : C12

RNA Area:	330.4	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	288 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.80

Fragment table for sample 12 : C12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,550	1,884	45.0	13.6
28S	3,135	3,947	61.9	18.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-20\2013-11-20_002.xad

Created: 11/20/2013 1:30:46 PM
Modified: 11/20/2013 1:54:37 PM

Gel Image

