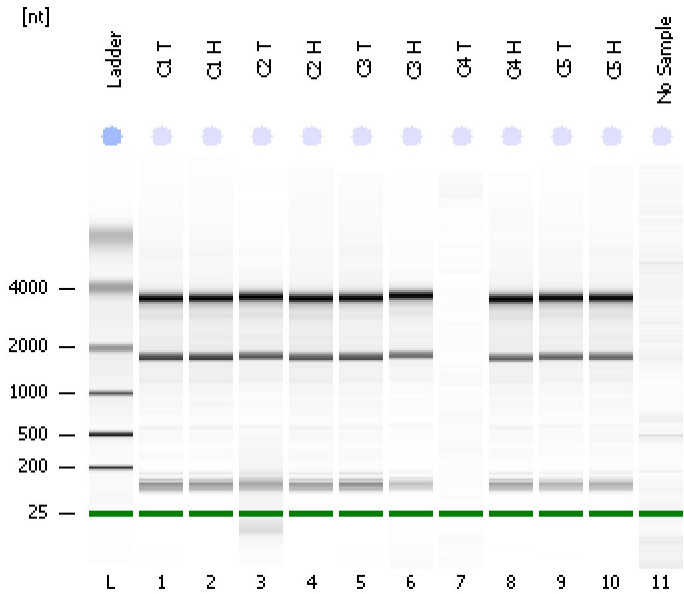


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
Modified: 8/18/2016 11:50:01 AM

Electrophoresis File Run Summary



Instrument Information:

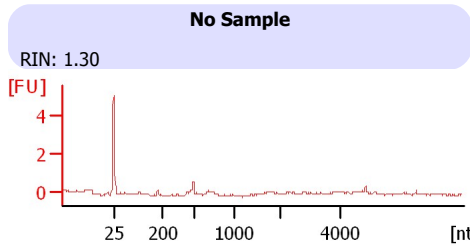
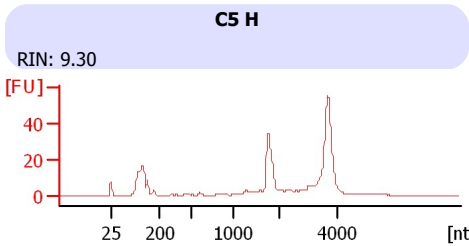
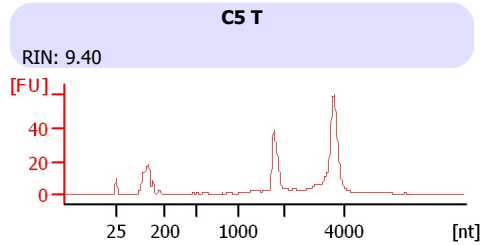
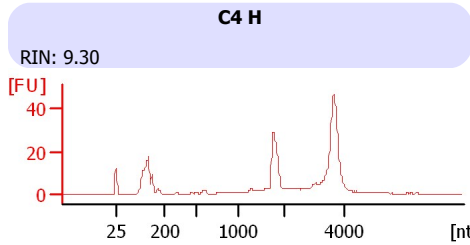
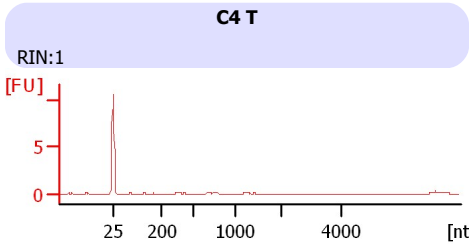
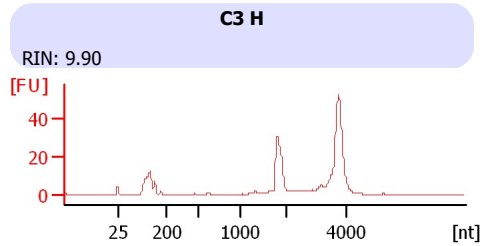
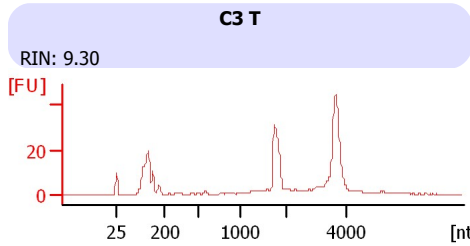
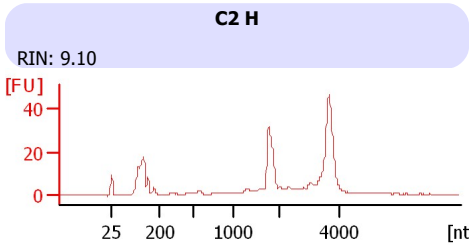
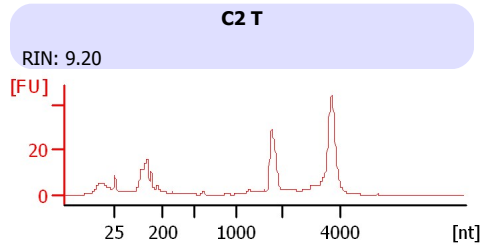
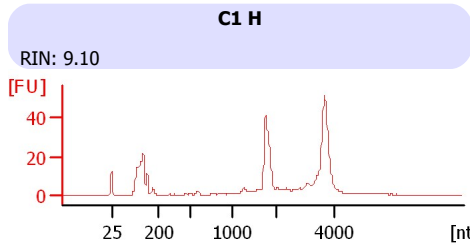
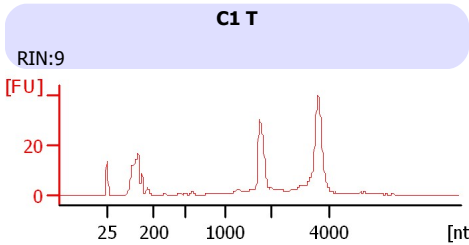
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

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



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
Modified: 8/18/2016 11:50:01 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
C1 T		✓	RIN:9	
C1 H		✓	RIN: 9.10	
C2 T		✓	RIN: 9.20	
C2 H		✓	RIN: 9.10	
C3 T		✓	RIN: 9.30	
C3 H		✓	RIN: 9.90	
C4 T		✓	RIN:1	
C4 H		✓	RIN: 9.30	
C5 T		✓	RIN: 9.40	
C5 H		✓	RIN: 9.30	
No Sample		✓	RIN: 1.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
Modified: 8/18/2016 11:50:01 AM

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

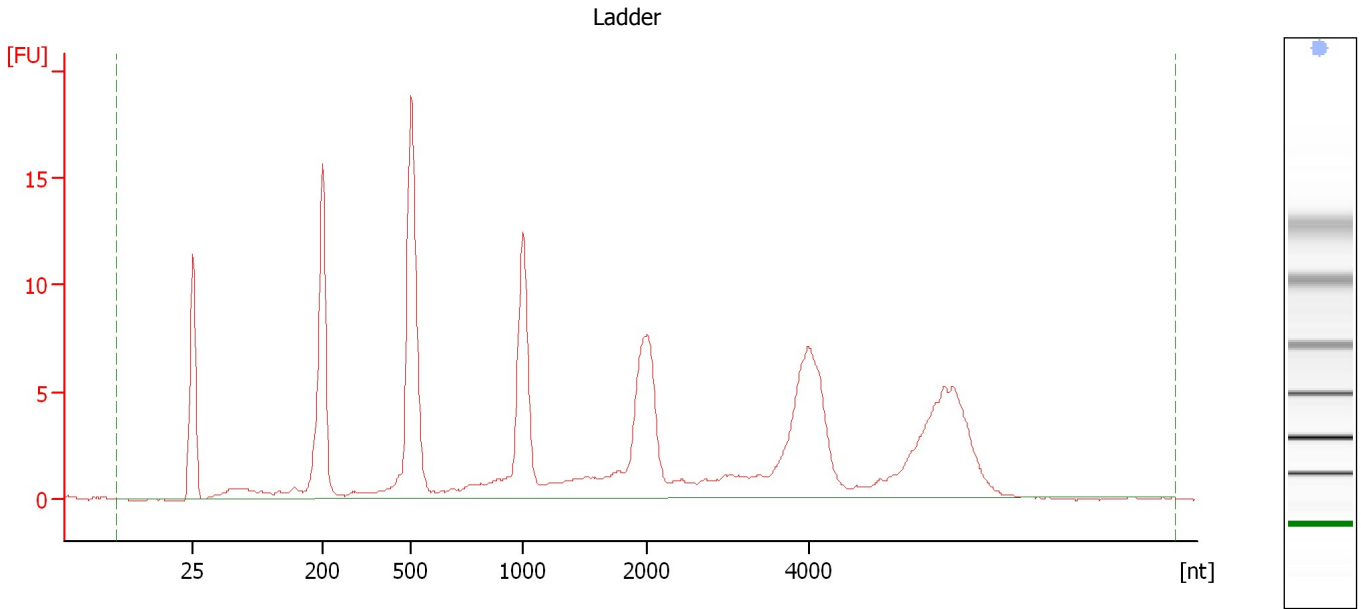
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
Modified: 8/18/2016 11:50:01 AM

Electropherogram Summary



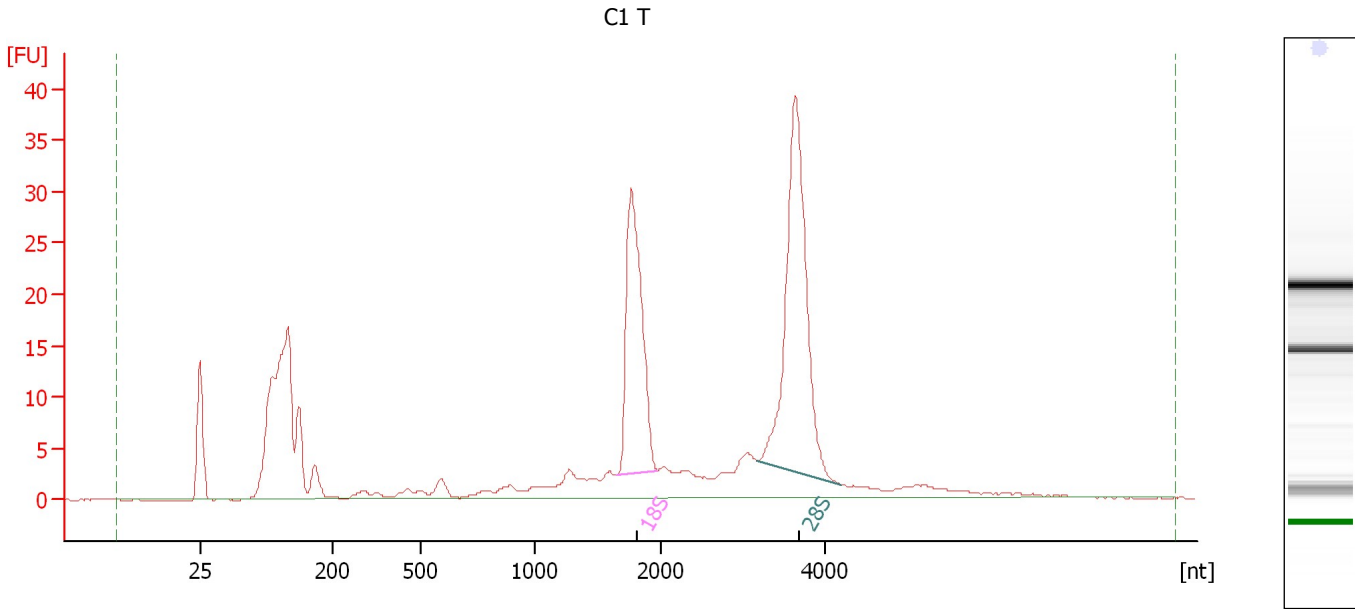
Overall Results for Ladder

RNA Area:	171.6	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
Modified: 8/18/2016 11:50:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : C1 T

RNA Area:	317.1	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	1,848 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN:9

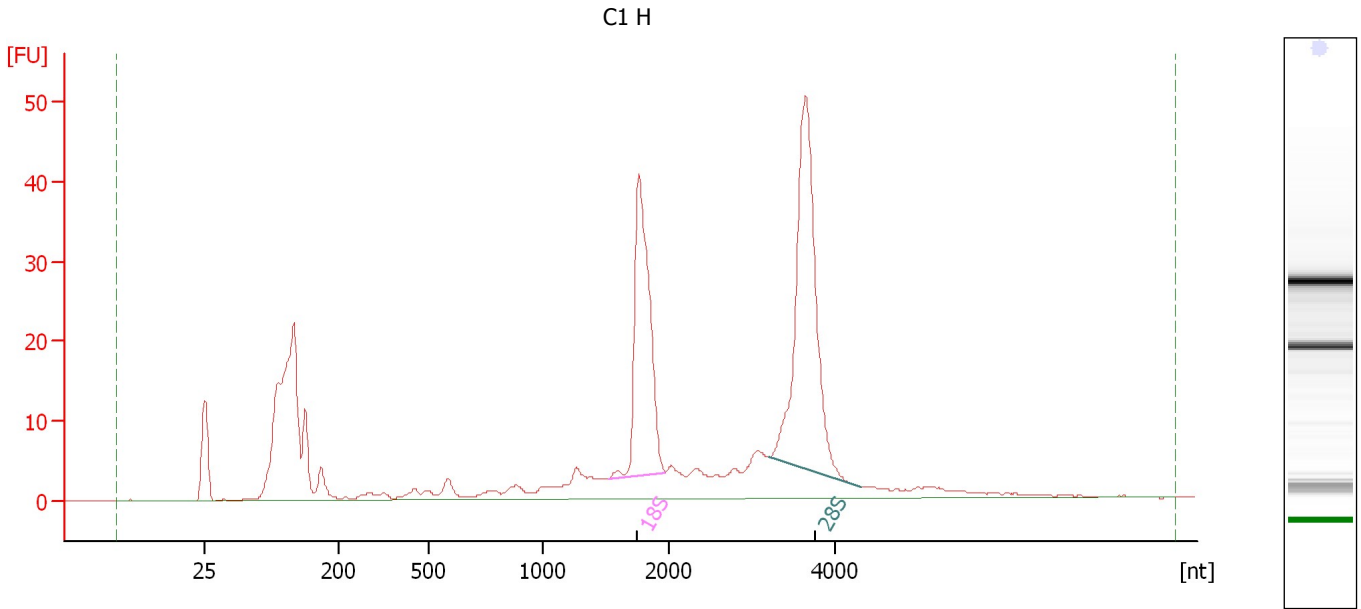
Fragment table for sample 1 : C1 T

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	1,970	52.6	16.6
28S	3,168	4,185	77.7	24.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
 Modified: 8/18/2016 11:50:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : C1 H

RNA Area:	404.9	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	2,360 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 9.10

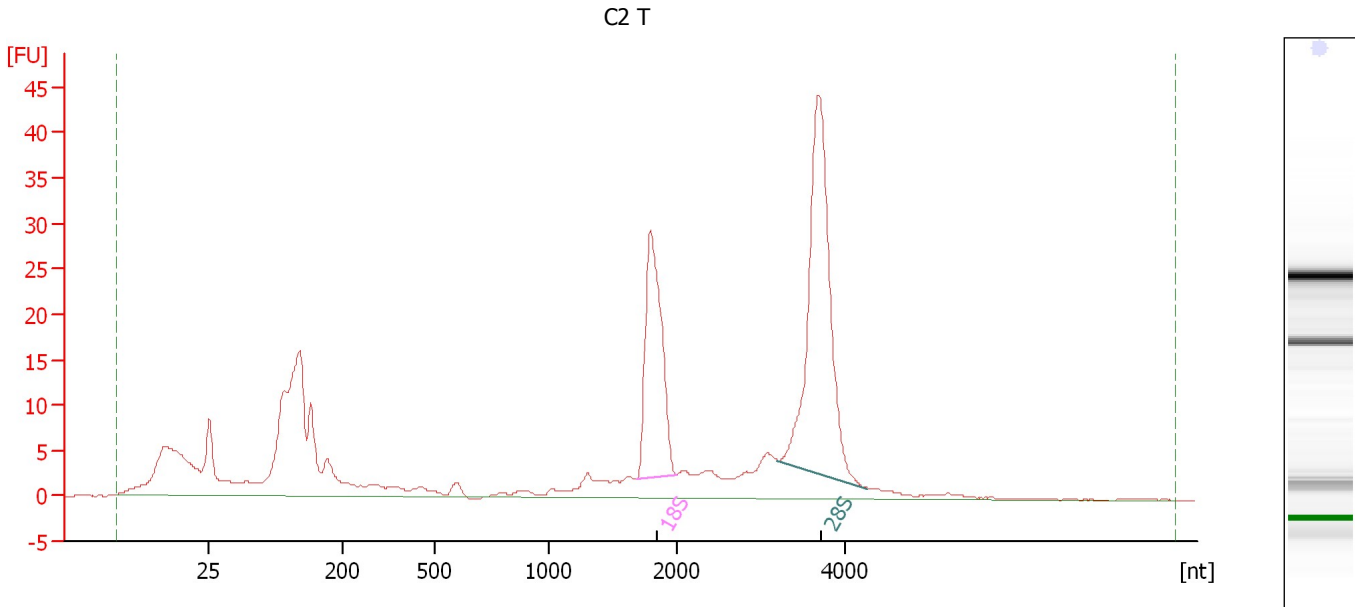
Fragment table for sample 2 : C1 H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,518	1,965	69.1	17.1
28S	3,201	4,313	96.3	23.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
Modified: 8/18/2016 11:50:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : C2 T

RNA Area:	390.5	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	2,276 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.20

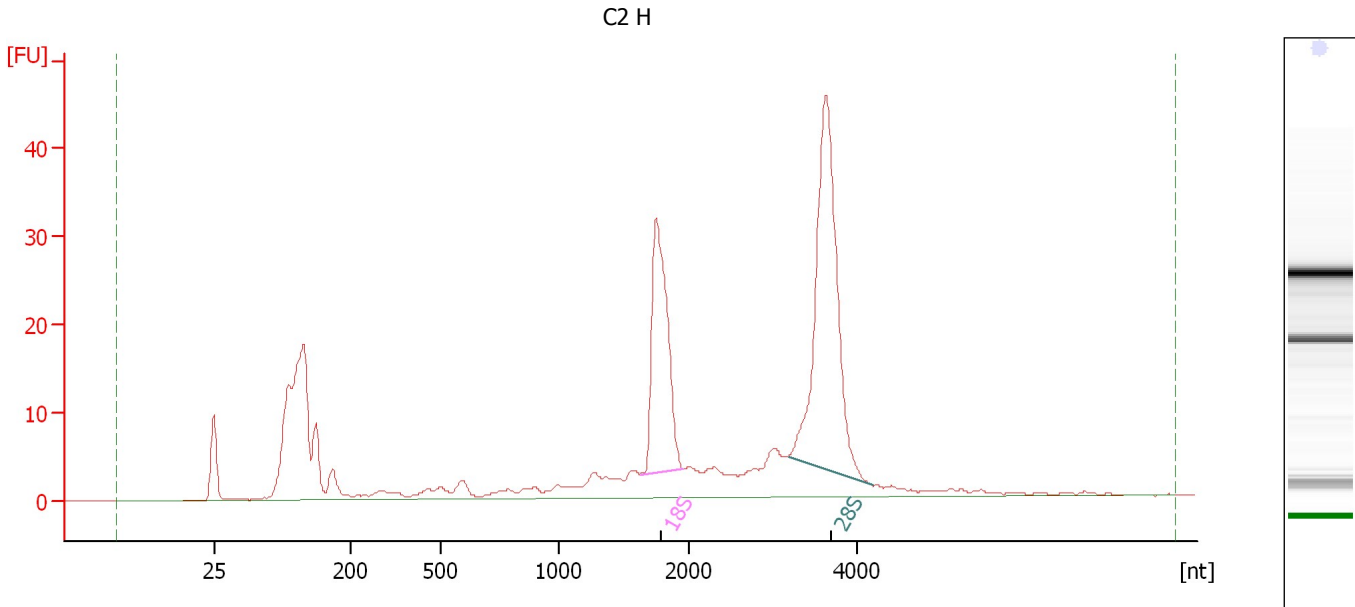
Fragment table for sample 3 : C2 T

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,675	1,993	52.9	13.5
28S	3,195	4,272	91.0	23.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
Modified: 8/18/2016 11:50:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : C2 H

RNA Area:	355.7	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	2,073 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.10

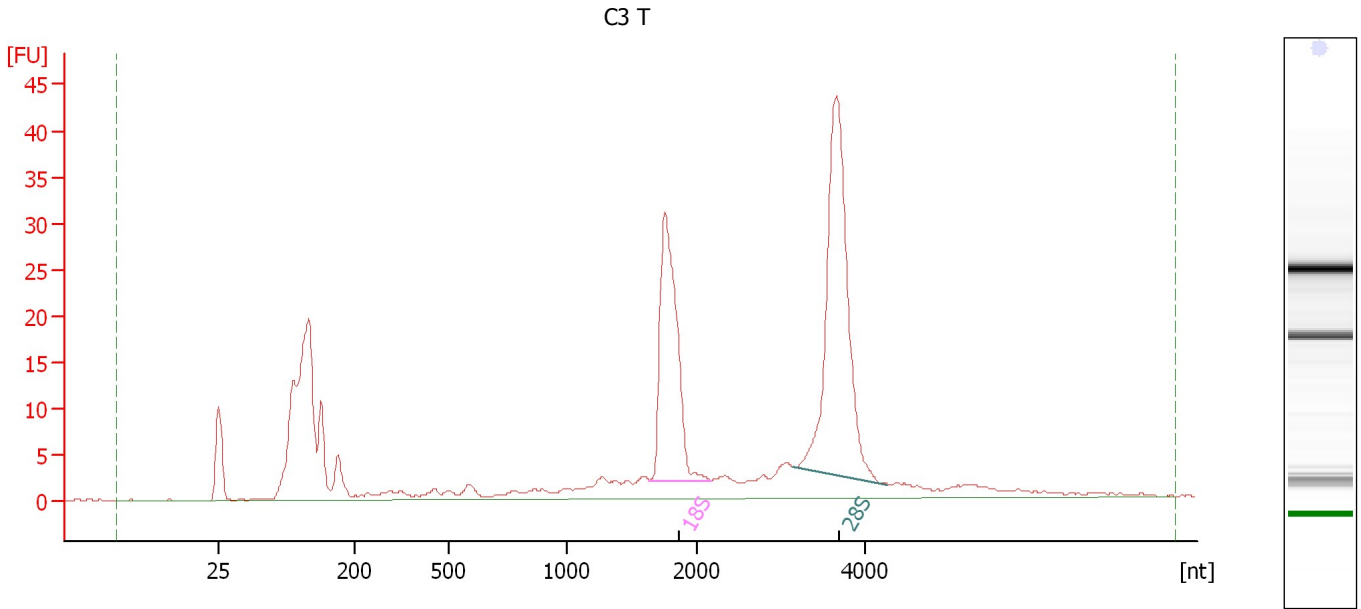
Fragment table for sample 4 : C2 H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,632	1,963	54.4	15.3
28S	3,187	4,190	92.1	25.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
Modified: 8/18/2016 11:50:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : C3 T

RNA Area: 332.6 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 1,938 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 9.30

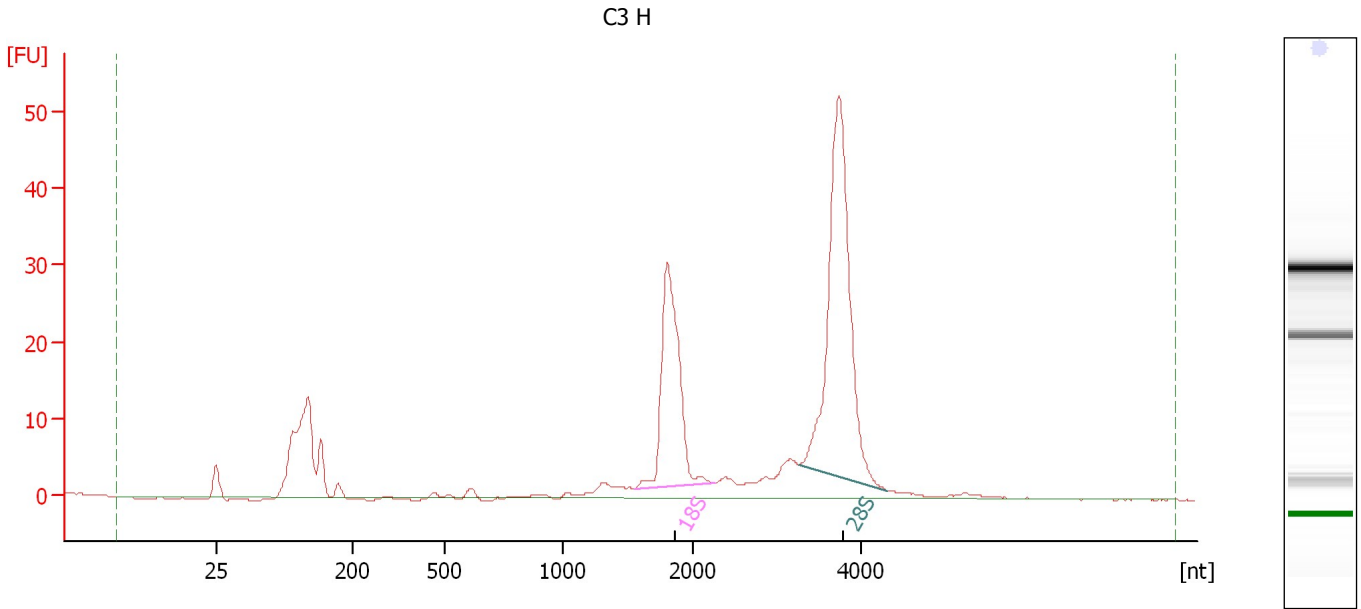
Fragment table for sample 5 : C3 T

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,638	2,174	57.4	17.3
28S	3,144	4,251	87.1	26.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
Modified: 8/18/2016 11:50:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : C3 H

RNA Area:	295.7	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	1,723 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.90

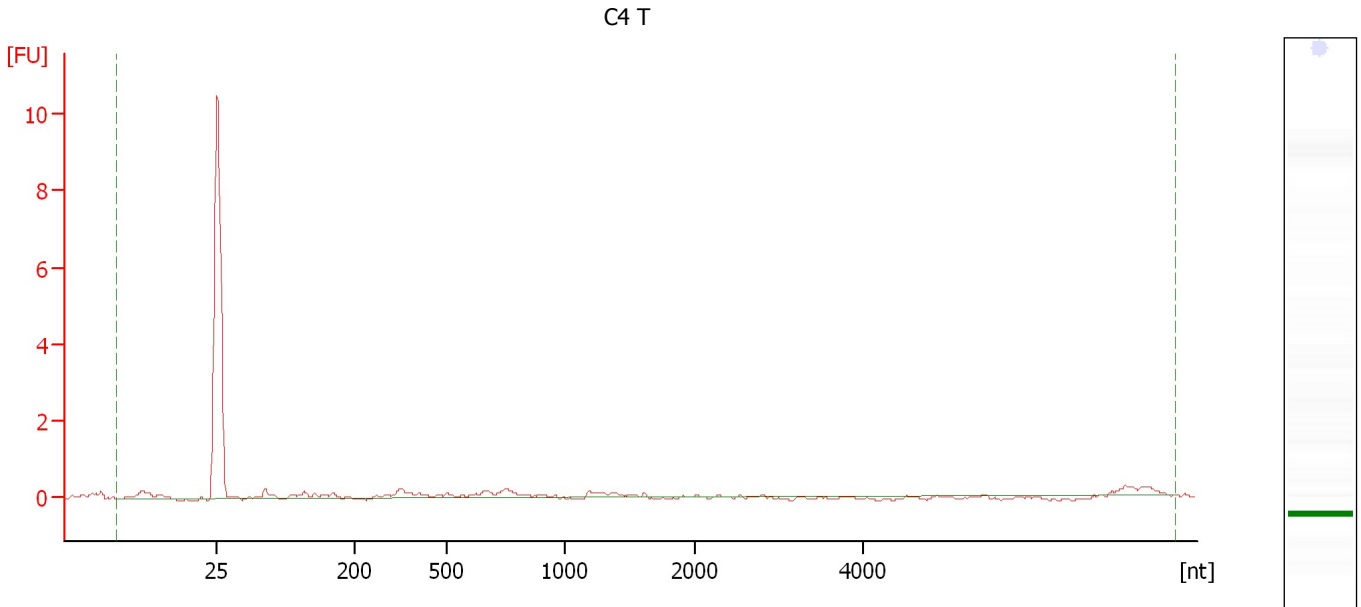
Fragment table for sample 6 : C3 H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,553	2,261	60.4	20.4
28S	3,260	4,309	105.9	35.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
Modified: 8/18/2016 11:50:01 AM

Electropherogram Summary Continued ...



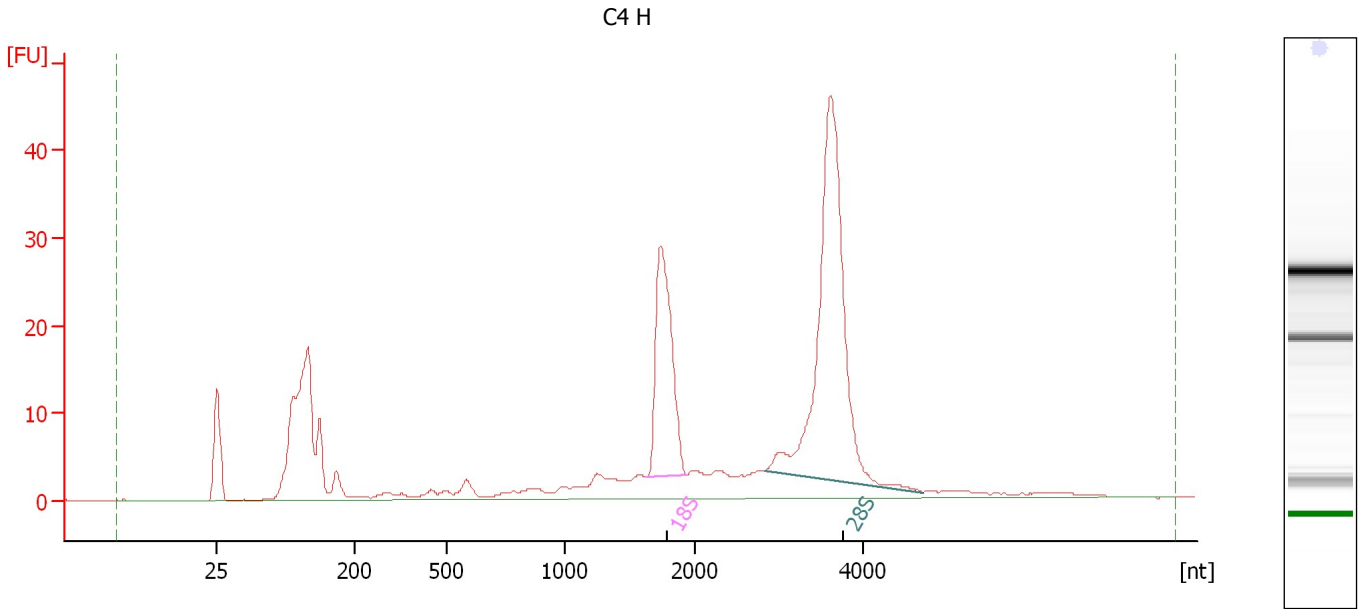
Overall Results for sample 7 : C4 T

RNA Area:	5.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	30 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
Modified: 8/18/2016 11:50:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : C4 H

RNA Area:	343.1	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	1,999 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 9.30

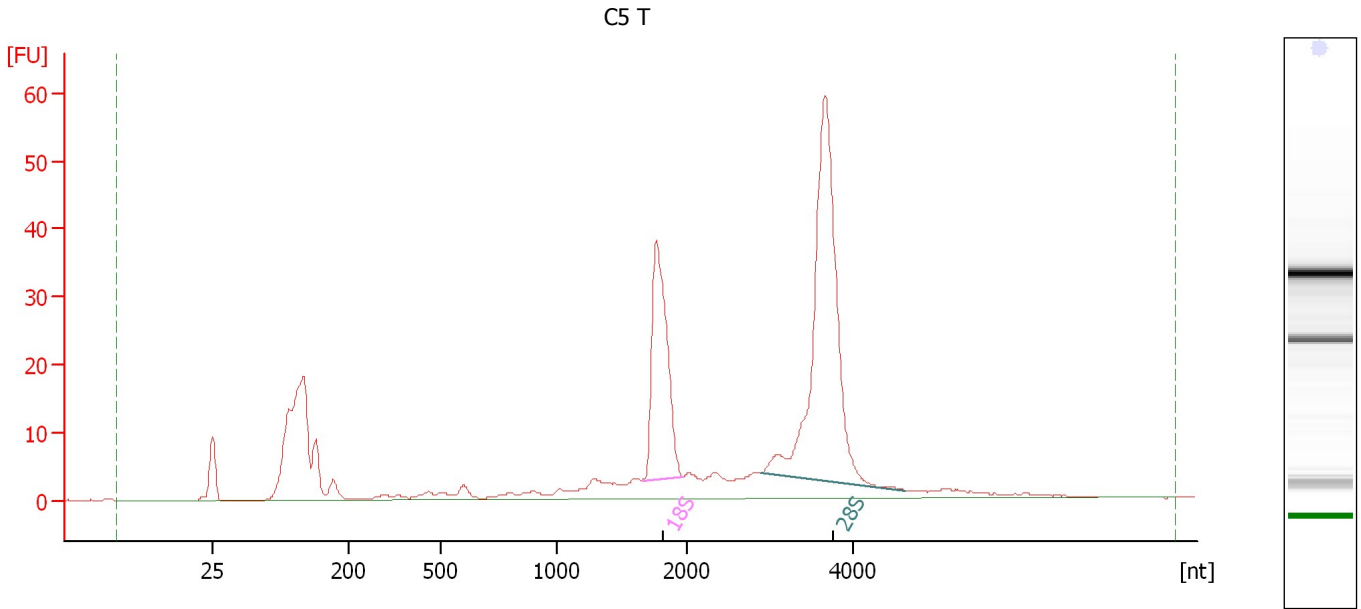
Fragment table for sample 8 : C4 H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	1,940	50.0	14.6
28S	2,842	4,697	111.1	32.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
 Modified: 8/18/2016 11:50:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : C5 T

RNA Area:	396.8	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	2,312 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.40

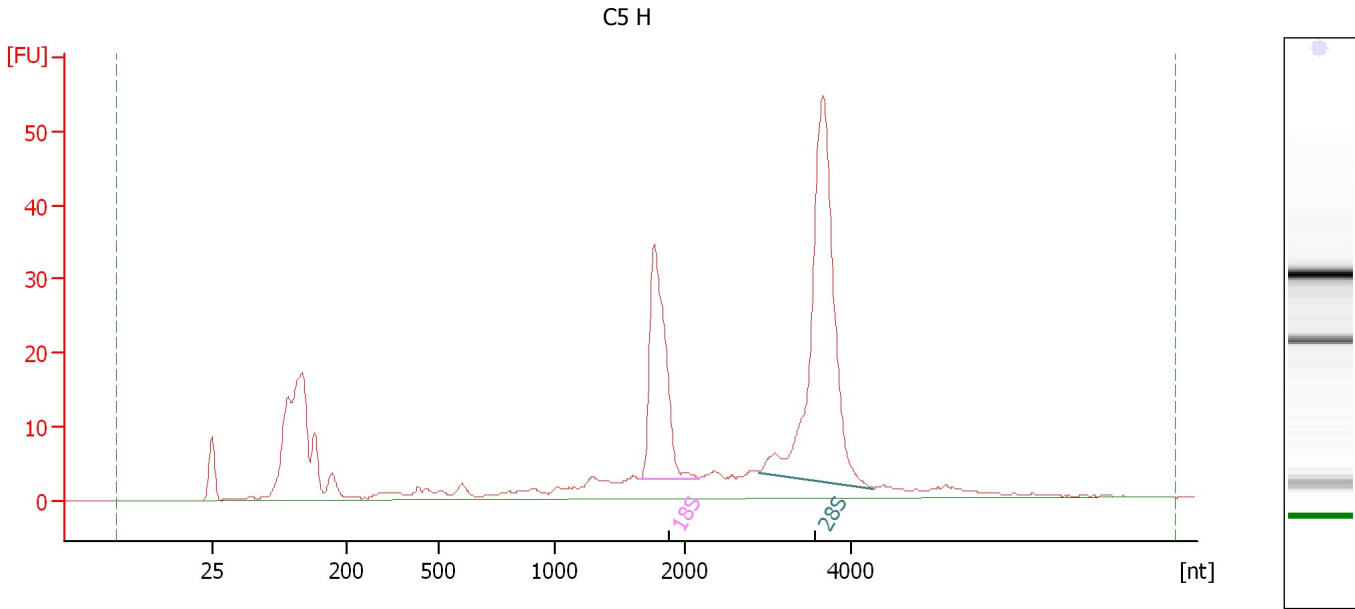
Fragment table for sample 9 : C5 T

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,664	1,970	64.0	16.1
28S	2,883	4,613	133.6	33.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
Modified: 8/18/2016 11:50:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : C5 H

RNA Area:	389.0	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	2,267 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.30

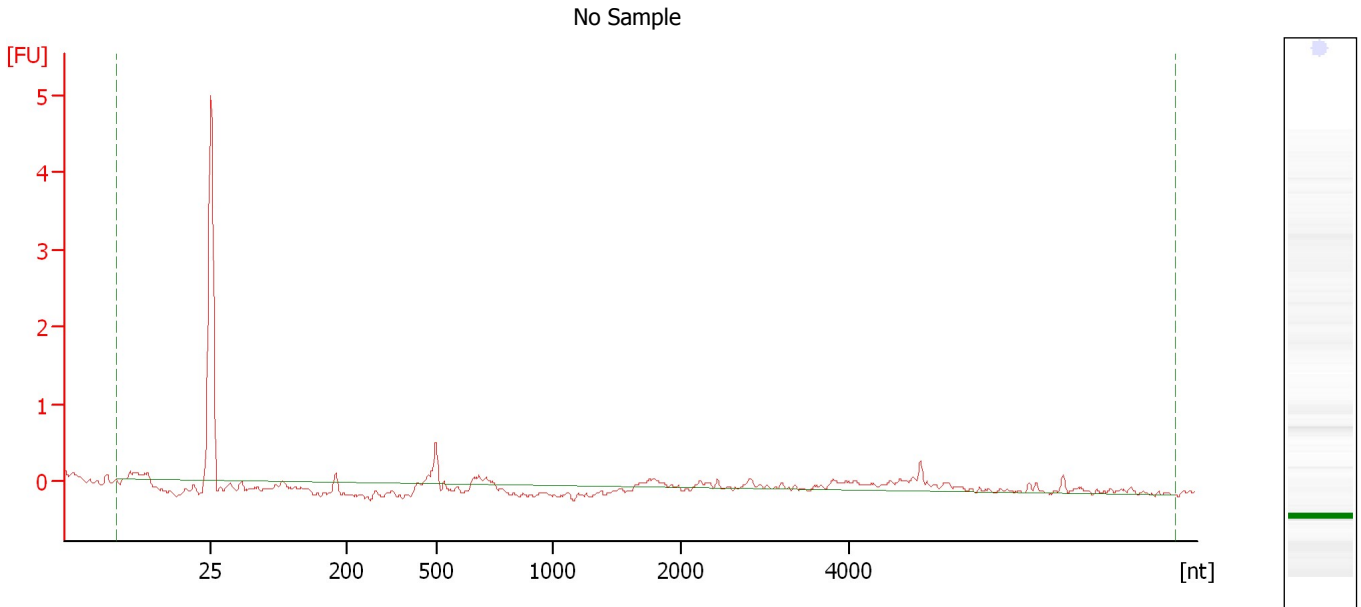
Fragment table for sample 10 : C5 H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,663	2,170	60.3	15.5
28S	2,897	4,261	120.7	31.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
Modified: 8/18/2016 11:50:01 AM

Electropherogram Summary Continued ...



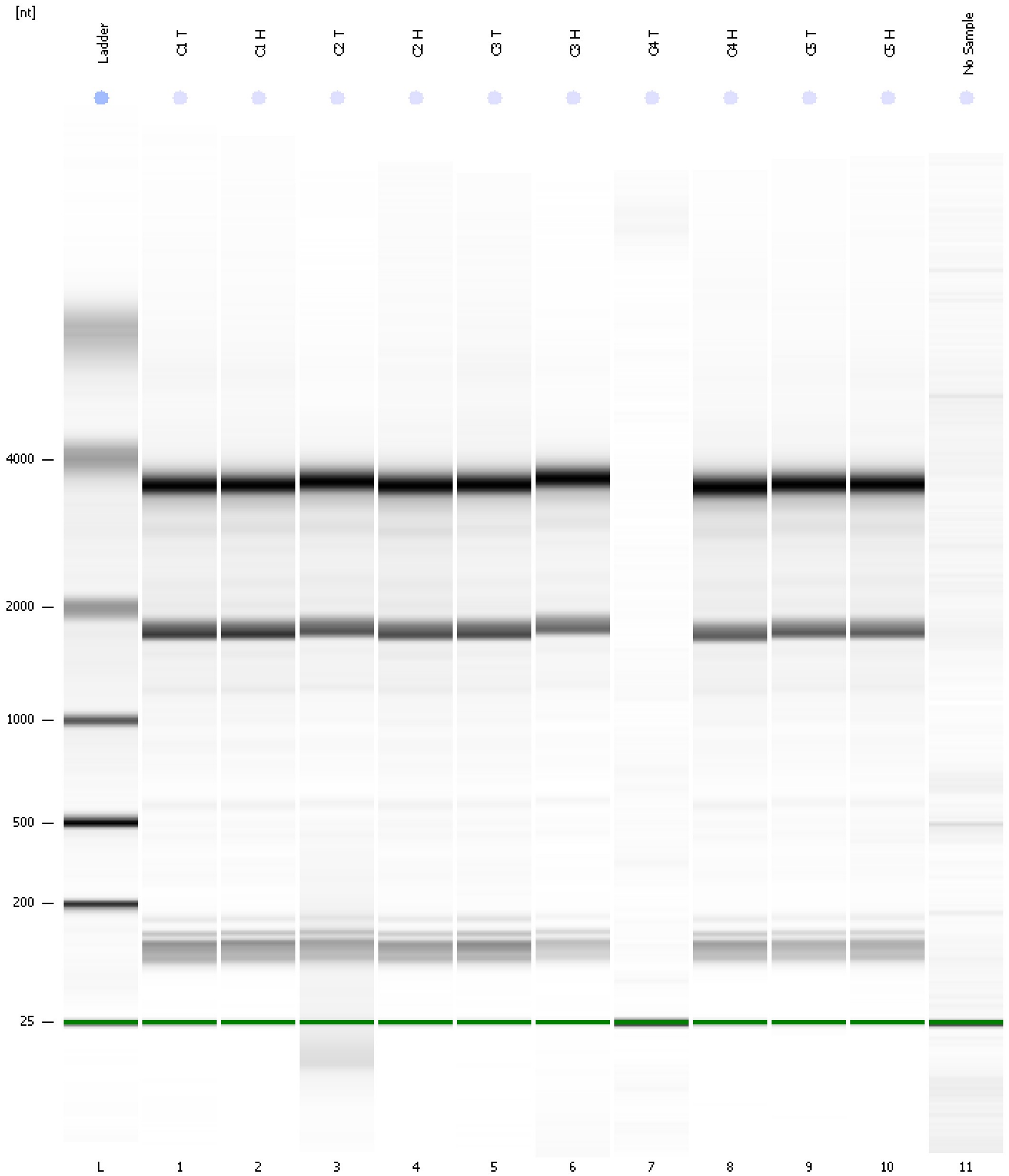
Overall Results for sample 11 : No Sample

RNA Area:	3.4	RNA Integrity Number (RIN):	1.3 (B.02.08)
RNA Concentration:	20 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.30

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
Modified: 8/18/2016 11:50:01 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad

Created: 8/18/2016 11:27:07 AM
 Modified: 8/18/2016 11:50:01 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		8/18/2016 11:50:00 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_001.xad)		Instrument	Run		8/18/2016 11:27:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/18/2016 11:27:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/18/2016 11:27:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/18/2016 11:27:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/18/2016 11:27:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/18/2016 11:27:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/18/2016 11:27:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1