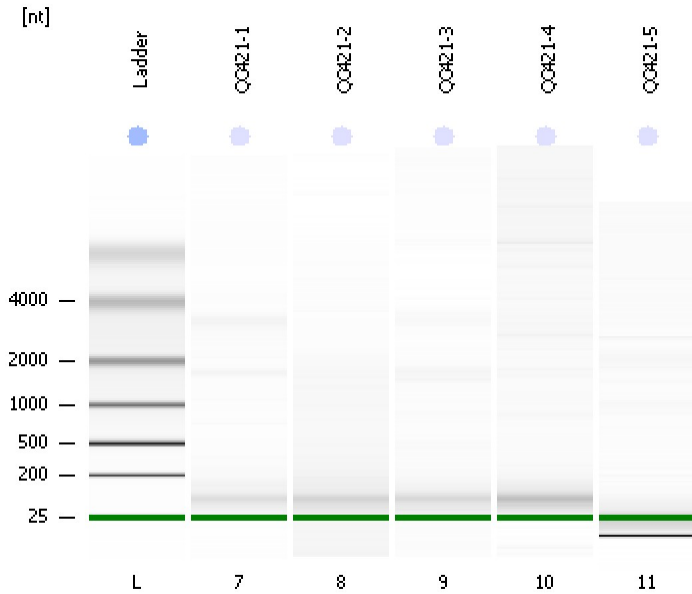


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...er\2100 expert\data\2019-04-19\2019-04-19\_007\_QC421\_1-5.xad

Created: 4/19/2019 4:40:24 PM  
Modified: 4/19/2019 5:06:17 PM

**Electrophoresis File Run Summary**



Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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)

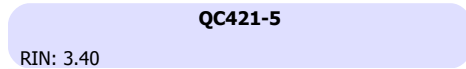
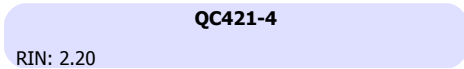
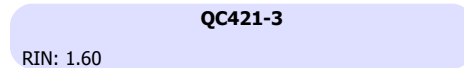
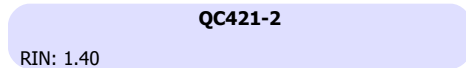
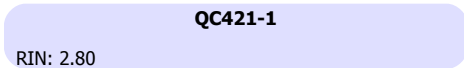
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...er\2100 expert\data\2019-04-19\2019-04-19\_007\_QC421\_1-5.xad

Created: 4/19/2019 4:40:24 PM  
 Modified: 4/19/2019 5:06:17 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
QC421-1		✓	RIN: 2.80	
QC421-2		✓	RIN: 1.40	
QC421-3		✓	RIN: 1.60	
QC421-4		✓	RIN: 2.20	
QC421-5		✓	RIN: 3.40	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...er\2100 expert\data\2019-04-19\2019-04-19\_007\_QC421\_1-5.xad

Created: 4/19/2019 4:40:24 PM  
Modified: 4/19/2019 5:06:17 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/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ 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

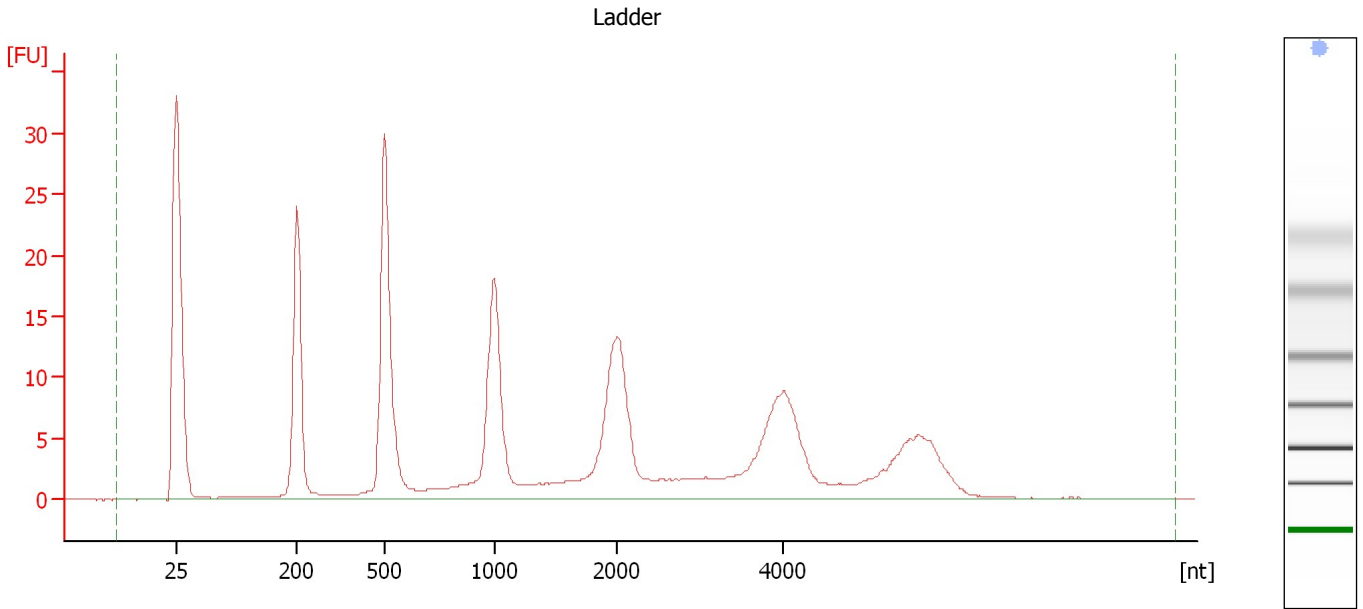
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...er\2100 expert\data\2019-04-19\2019-04-19\_007\_QC421\_1-5.xad

Created: 4/19/2019 4:40:24 PM  
Modified: 4/19/2019 5:06:17 PM

**Electropherogram Summary**



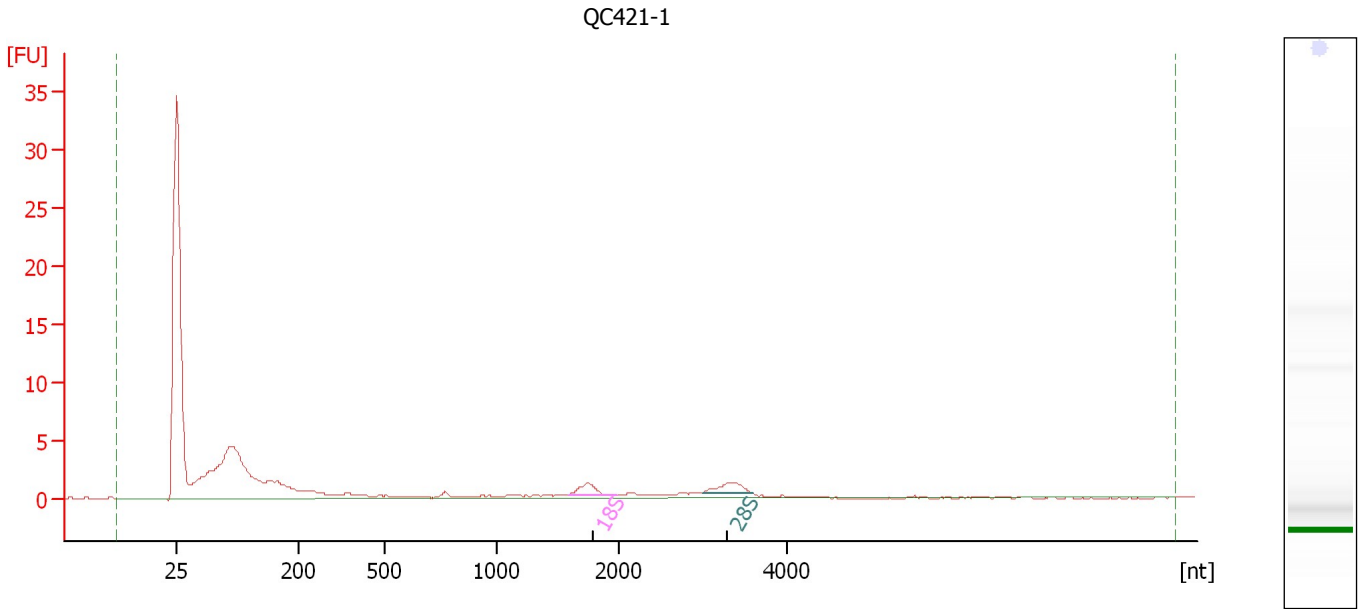
**Overall Results for Ladder**

RNA Area:	271.6	Result Flagging Color:	<span style="background-color: #ADD8E6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...er\2100 expert\data\2019-04-19\2019-04-19\_007\_QC421\_1-5.xad

Created: 4/19/2019 4:40:24 PM  
Modified: 4/19/2019 5:06:17 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : QC421-1**

RNA Area: 62.8                      RNA Integrity Number (RIN): 2.8 (B.02.08)  
RNA Concentration: 231 pg/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0              Result Flagging Label: RIN: 2.80

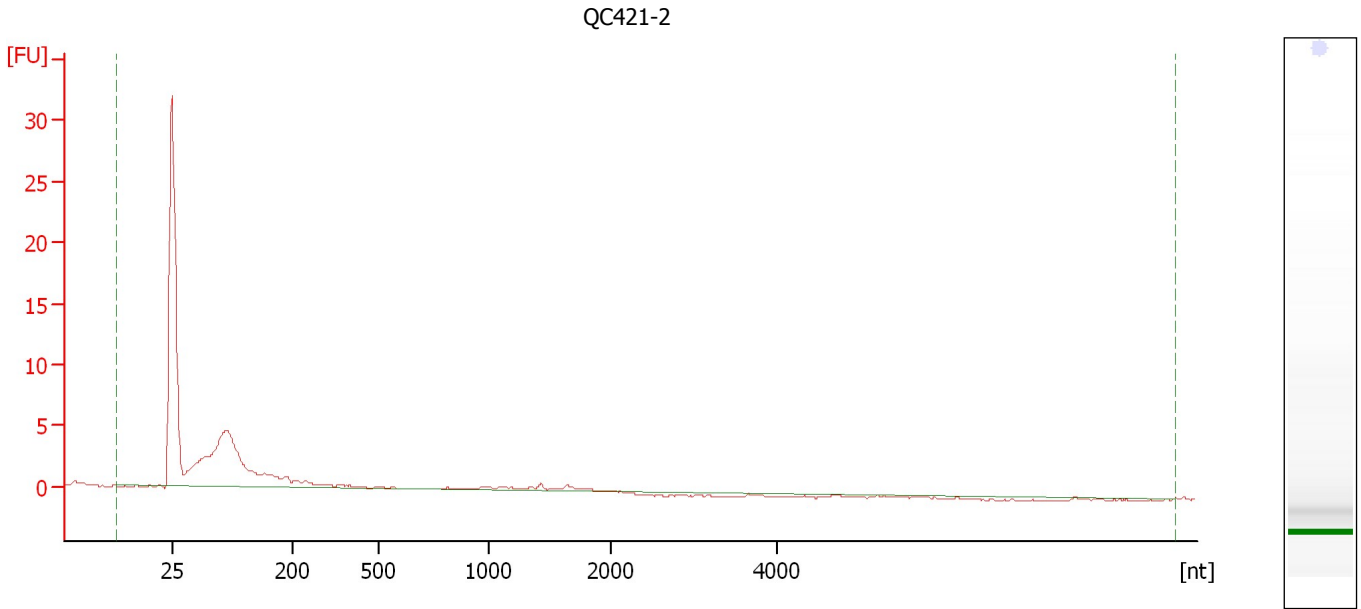
**Fragment table for sample 7 : QC421-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	1,974	2.3	3.7
28S	3,011	3,612	2.3	3.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...er\2100 expert\data\2019-04-19\2019-04-19\_007\_QC421\_1-5.xad

Created: 4/19/2019 4:40:24 PM  
Modified: 4/19/2019 5:06:17 PM

**Electropherogram Summary Continued ...**



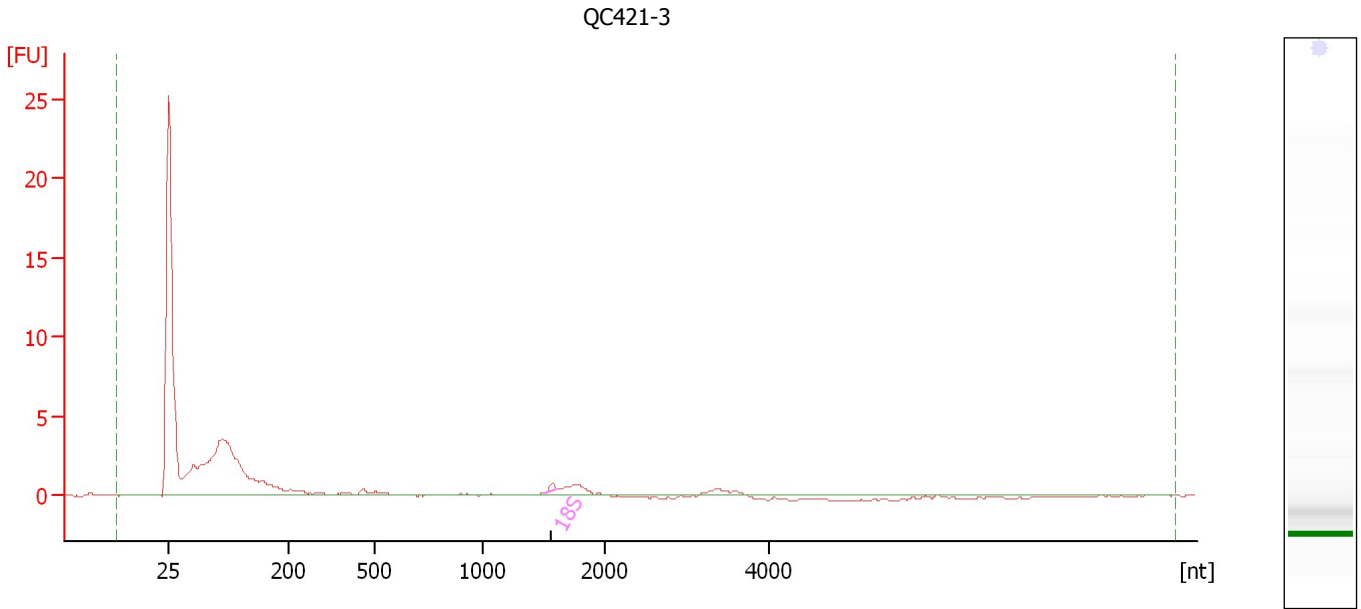
**Overall Results for sample 8 : QC421-2**

RNA Area:	48.9	RNA Integrity Number (RIN):	1.4 (B.02.08)
RNA Concentration:	180 pg/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: 1.40

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...er\2100 expert\data\2019-04-19\2019-04-19\_007\_QC421\_1-5.xad

Created: 4/19/2019 4:40:24 PM  
Modified: 4/19/2019 5:06:17 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : QC421-3**

RNA Area:	39.6	RNA Integrity Number (RIN):	1.6 (B.02.08)
RNA Concentration:	146 pg/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: 1.60

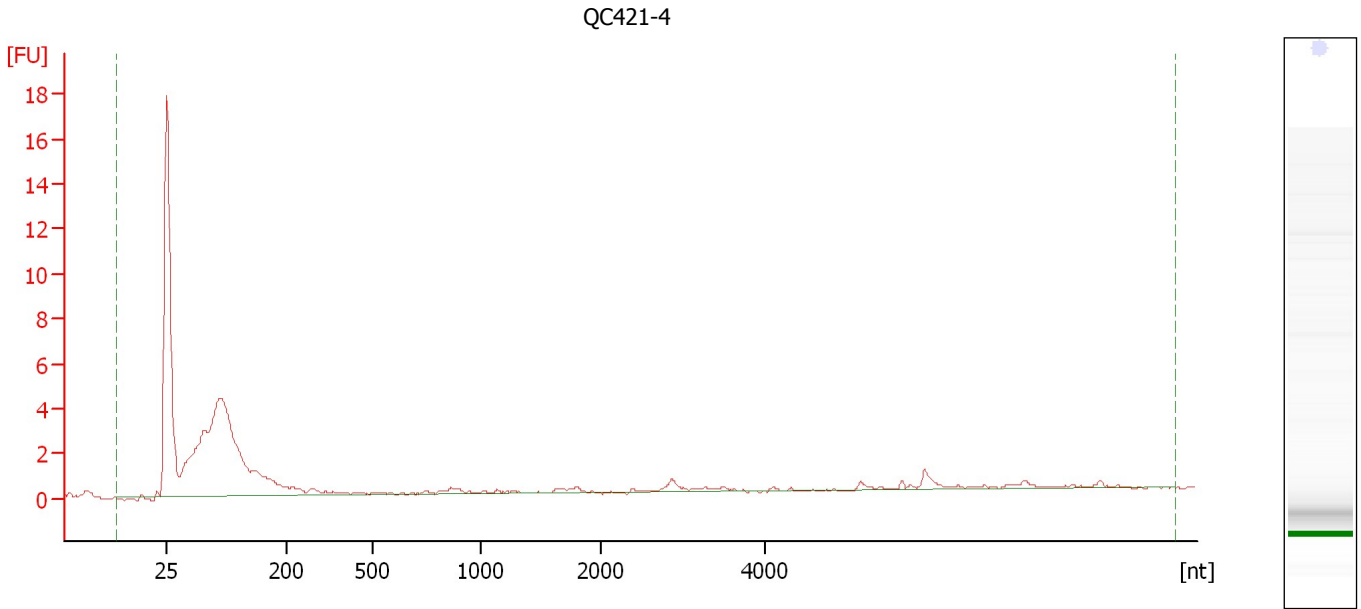
**Fragment table for sample 9 : QC421-3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,511	1,608	0.3	0.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...er\2100 expert\data\2019-04-19\2019-04-19\_007\_QC421\_1-5.xad

Created: 4/19/2019 4:40:24 PM  
Modified: 4/19/2019 5:06:17 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : QC421-4**

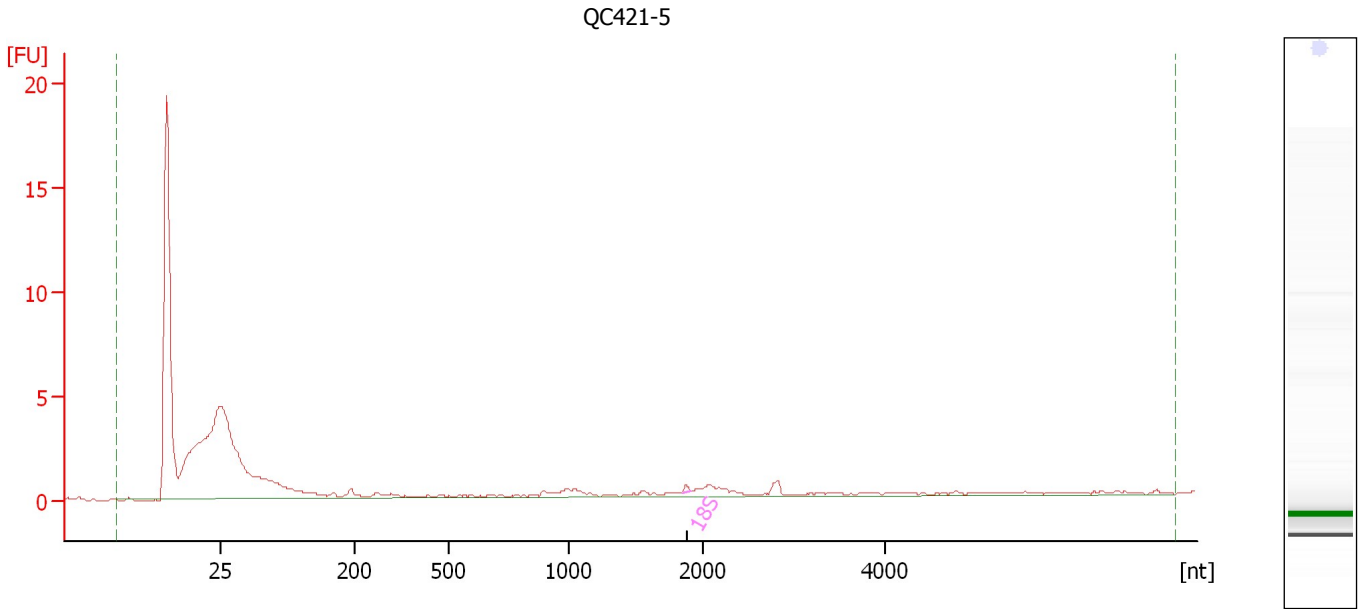
RNA Area:	50.5	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	186 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...er\2100 expert\data\2019-04-19\2019-04-19\_007\_QC421\_1-5.xad

Created: 4/19/2019 4:40:24 PM  
Modified: 4/19/2019 5:06:17 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : QC421-5**

RNA Area:	51.3	RNA Integrity Number (RIN):	3.4 (B.02.08)
RNA Concentration:	189 pg/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: 3.40

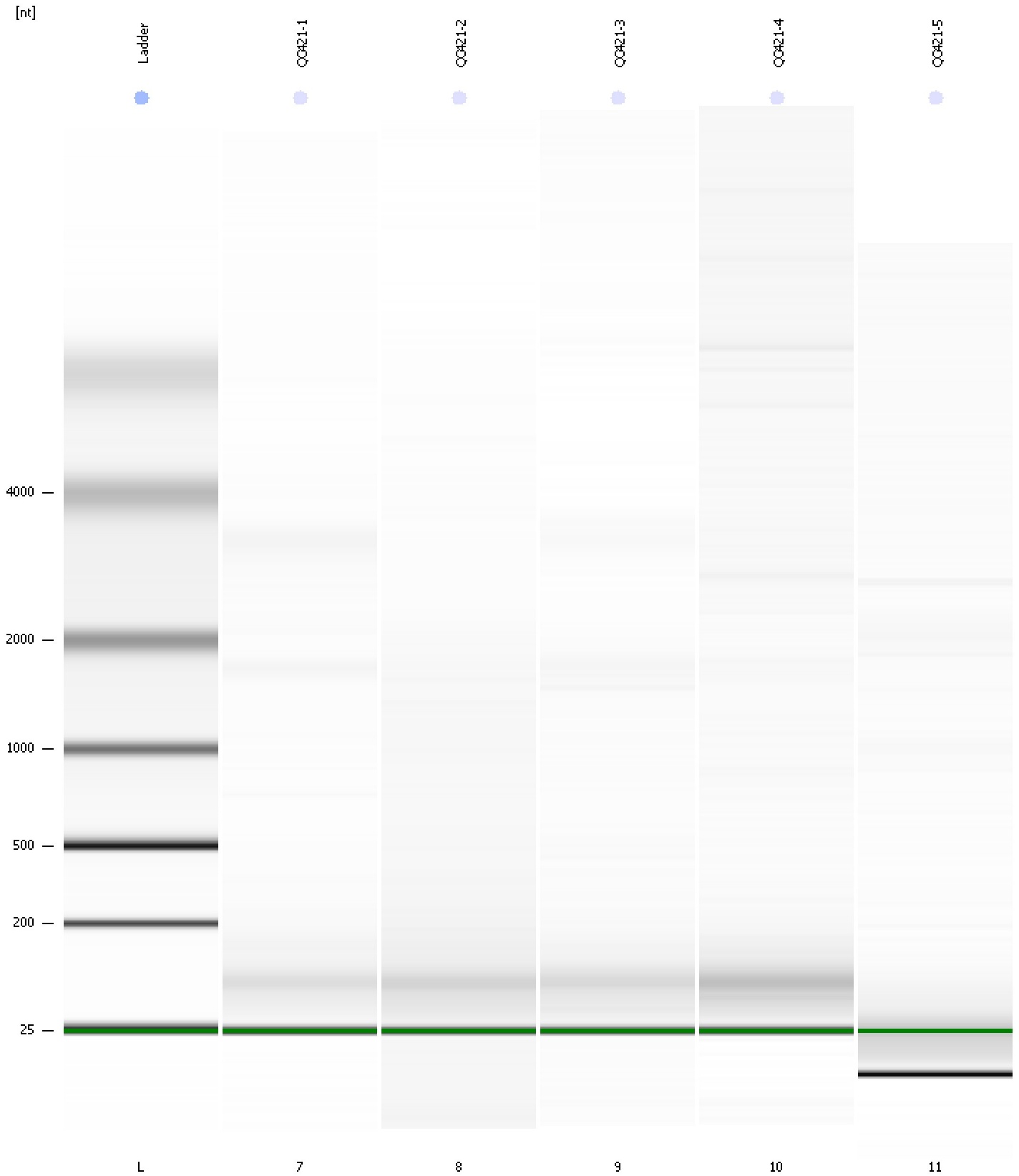
**Fragment table for sample 11 : QC421-5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,841	1,904	0.2	0.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...er\2100 expert\data\2019-04-19\2019-04-19\_007\_QC421\_1-5.xad

Created: 4/19/2019 4:40:24 PM  
Modified: 4/19/2019 5:06:17 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...er\2100 expert\data\2019-04-19\2019-04-19\_007\_QC421\_1-5.xad

Created: 4/19/2019 4:40:24 PM  
 Modified: 4/19/2019 5:06:17 PM

**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		4/19/2019 5:02:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_007.xad)		Instrument	Run		4/19/2019 4:40:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/19/2019 4:40:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/19/2019 4:40:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/19/2019 4:40:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/19/2019 4:40:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/19/2019 4:40:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/19/2019 4:40:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1