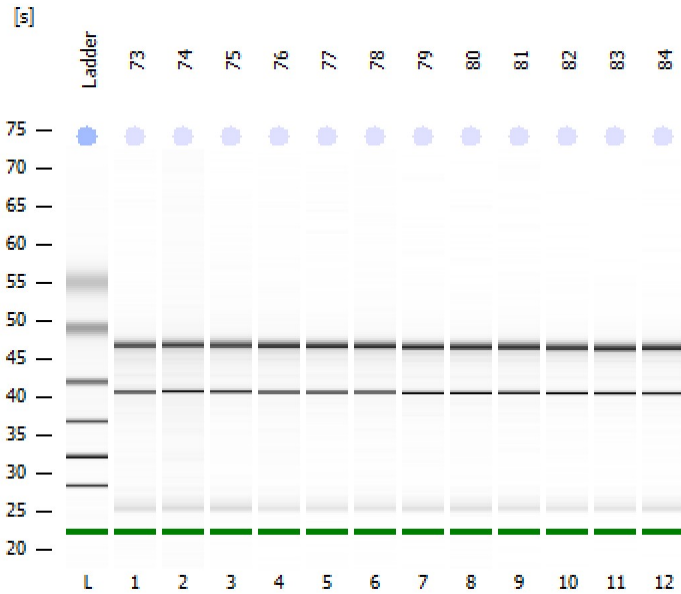


Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
Modified: 7/1/2020 2:49:41 PM

Electrophoresis File Run Summary



Instrument Information:

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

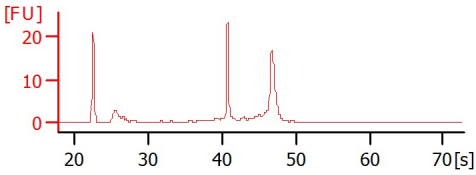
Assay Information:

Assay Origin Path: C:\Program Files (x86)\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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

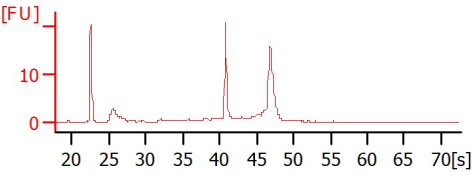
Chip Information:

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

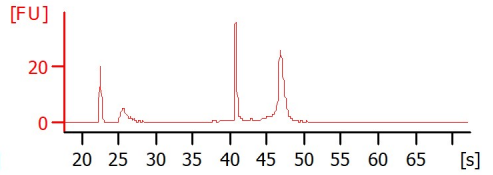
73
NovaSeq217 TotRNAQC
RIN: 9.30



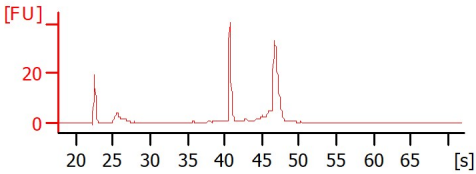
74
NovaSeq217 TotRNAQC
RIN: 9.20



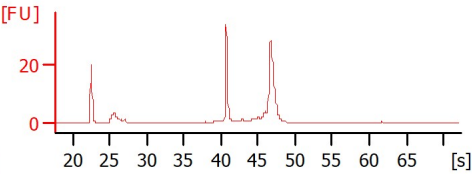
75
NovaSeq217 TotRNAQC
RIN: 9.80



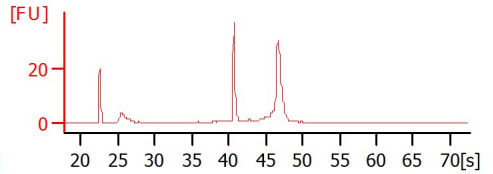
76
NovaSeq217 TotRNAQC
RIN: 9.50



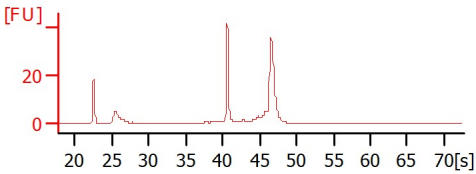
77
NovaSeq217 TotRNAQC
RIN: 9.80



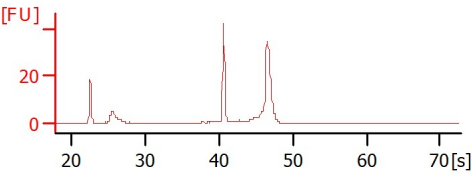
78
NovaSeq217 TotRNAQC
RIN: 9.70



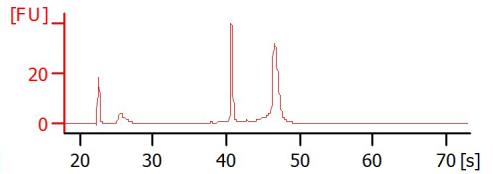
79
NovaSeq217 TotRNAQC
RIN: 9.60



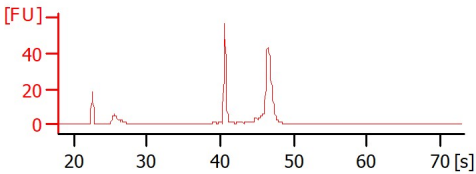
80
NovaSeq217 TotRNAQC
RIN: 9.80



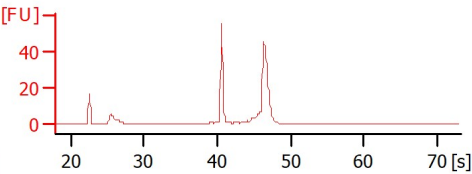
81
NovaSeq217 TotRNAQC
RIN: 9.80



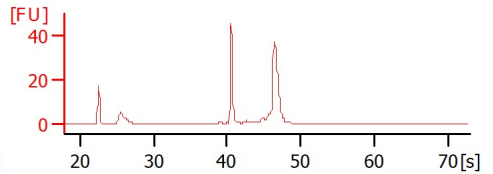
82
NovaSeq217 TotRNAQC
RIN: 9.90



83
NovaSeq217 TotRNAQC
RIN: 9.80



84
NovaSeq217 TotRNAQC
RIN: 9.80



Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
 Modified: 7/1/2020 2:49:41 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|---------------------|--------|-------------------|--------------|
| 73 | NovaSeq217 TotRNAQC | ✓ | RIN: 9.30 | |
| 74 | NovaSeq217 TotRNAQC | ✓ | RIN: 9.20 | |
| 75 | NovaSeq217 TotRNAQC | ✓ | RIN: 9.80 | |
| 76 | NovaSeq217 TotRNAQC | ✓ | RIN: 9.50 | |
| 77 | NovaSeq217 TotRNAQC | ✓ | RIN: 9.80 | |
| 78 | NovaSeq217 TotRNAQC | ✓ | RIN: 9.70 | |
| 79 | NovaSeq217 TotRNAQC | ✓ | RIN: 9.60 | |
| 80 | NovaSeq217 TotRNAQC | ✓ | RIN: 9.80 | |
| 81 | NovaSeq217 TotRNAQC | ✓ | RIN: 9.80 | |
| 82 | NovaSeq217 TotRNAQC | ✓ | RIN: 9.90 | |
| 83 | NovaSeq217 TotRNAQC | ✓ | RIN: 9.80 | |
| 84 | NovaSeq217 TotRNAQC | ✓ | RIN: 9.80 | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
 Modified: 7/1/2020 2:49:41 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

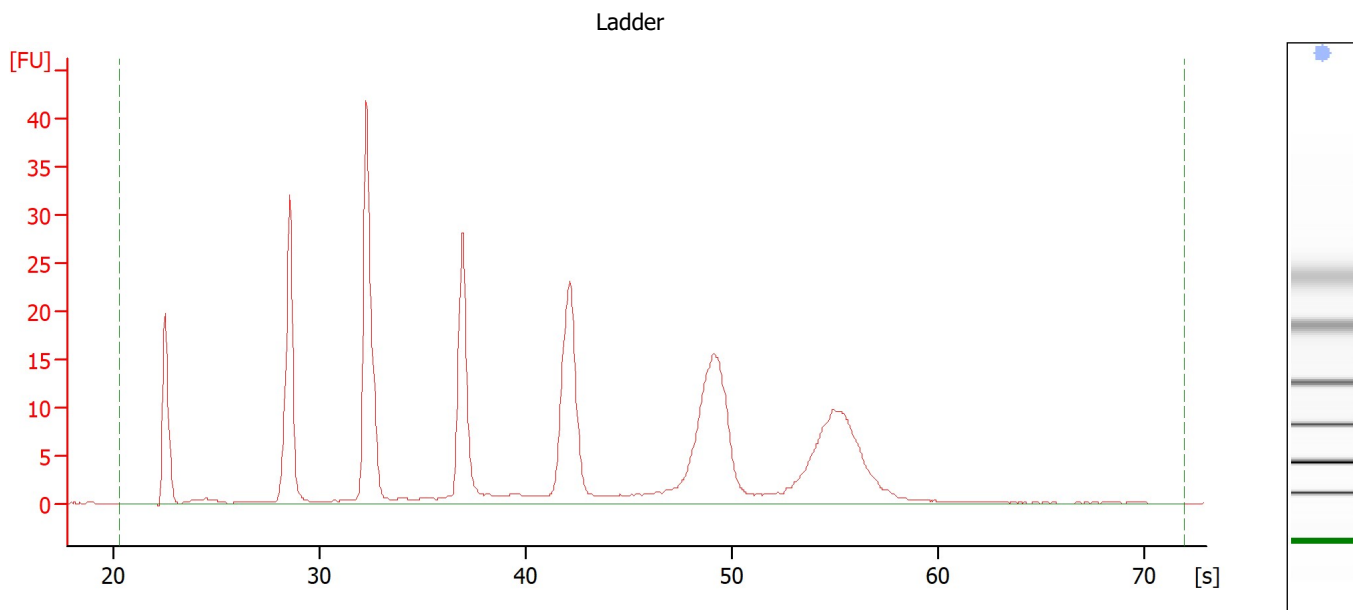
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
Modified: 7/1/2020 2:49:41 PM

Electropherogram Summary



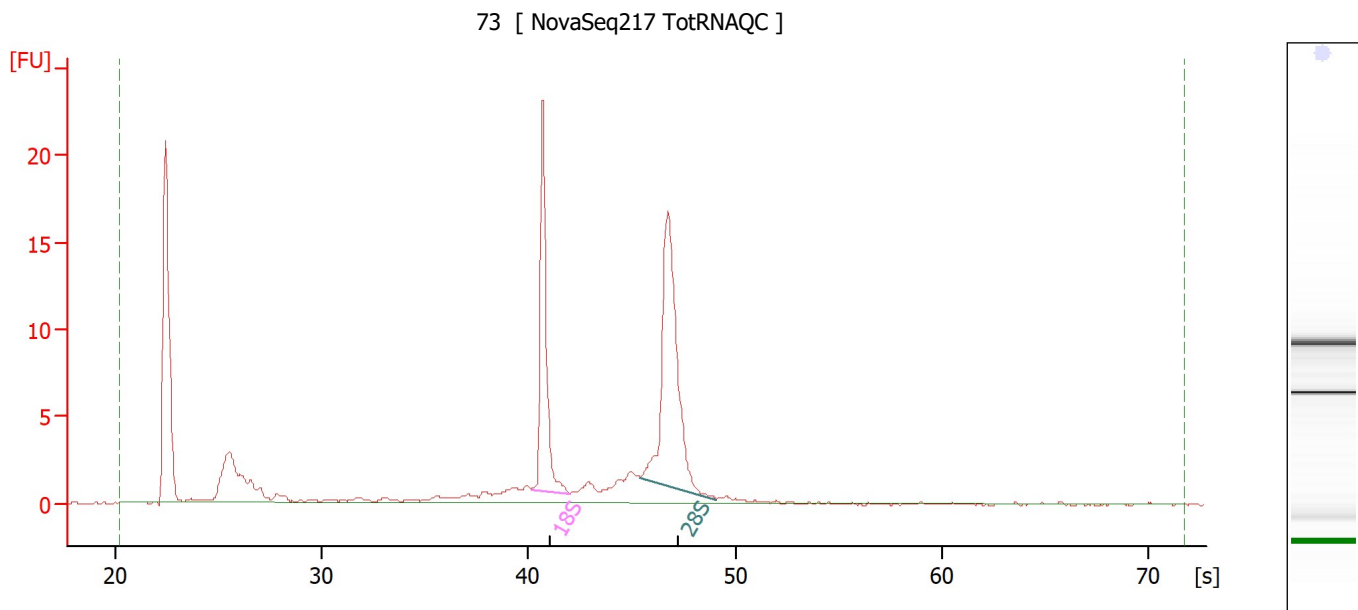
Overall Results for Ladder

| | | | |
|--------------------|-----------------|------------------------|---|
| RNA Area: | 315.3 | Result Flagging Color: | |
| RNA Concentration: | 150 ng/ μ l | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
 Modified: 7/1/2020 2:49:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 73

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 94.0 | RNA Integrity Number (RIN): | 9.3 (B.02.10) |
| RNA Concentration: | 45 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.5 | Result Flagging Label: | RIN: 9.30 |

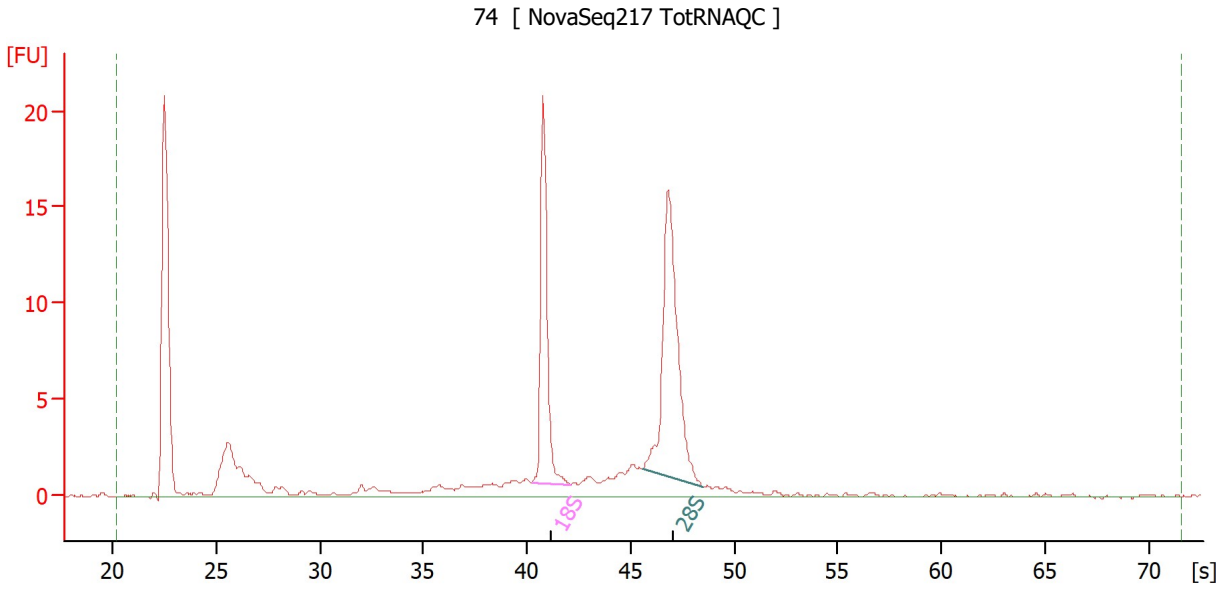
Fragment table for sample 1 : 73

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.17 | 41.99 | 18.7 | 19.9 |
| 28S | 45.42 | 49.11 | 27.6 | 29.4 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
 Modified: 7/1/2020 2:49:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 74

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 89.2 | RNA Integrity Number (RIN): | 9.2 (B.02.10) |
| RNA Concentration: | 42 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.5 | Result Flagging Label: | RIN: 9.20 |

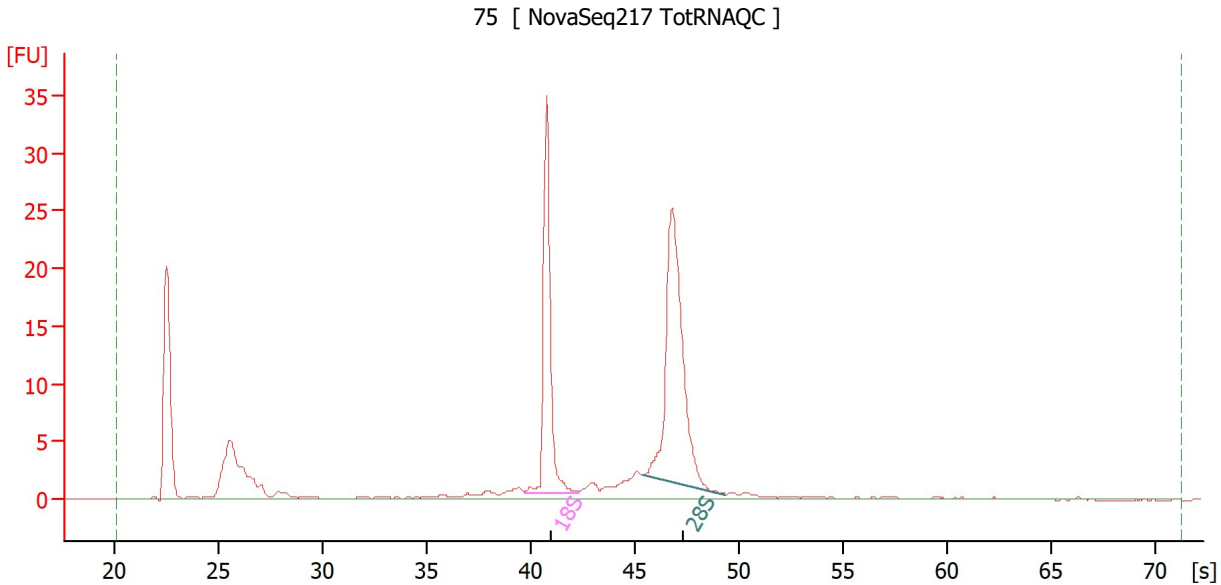
Fragment table for sample 2 : 74

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.23 | 42.10 | 17.0 | 19.0 |
| 28S | 45.57 | 48.47 | 26.2 | 29.4 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
 Modified: 7/1/2020 2:49:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 75

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 138.6 | RNA Integrity Number (RIN): | 9.8 (B.02.10) |
| RNA Concentration: | 66 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.5 | Result Flagging Label: | RIN: 9.80 |

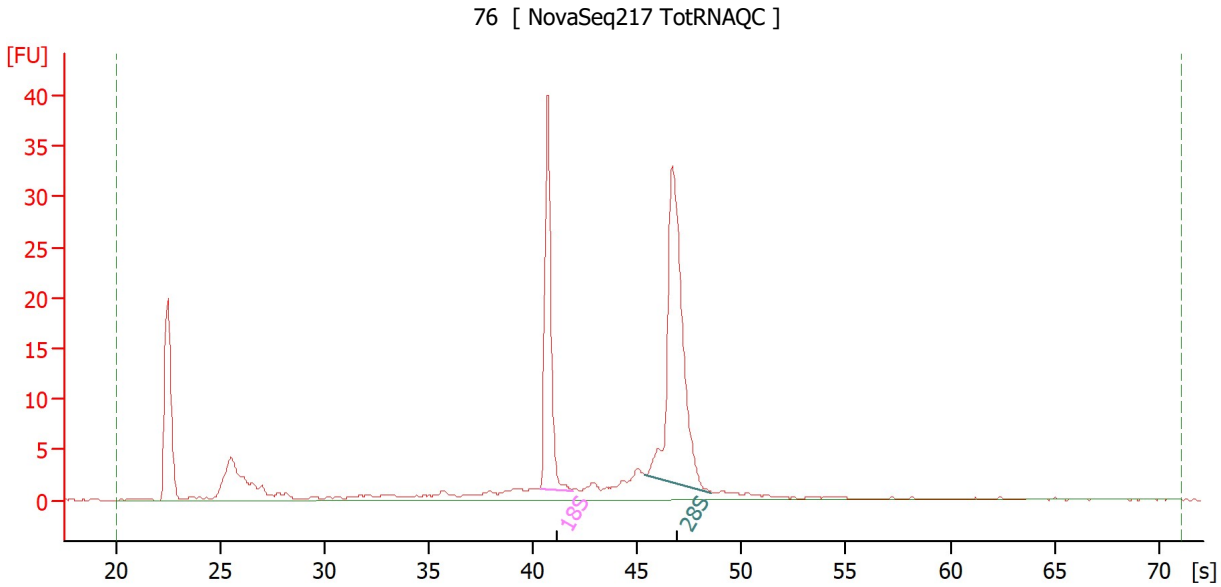
Fragment table for sample 3 : 75

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 39.68 | 42.26 | 30.3 | 21.8 |
| 28S | 45.36 | 49.33 | 46.8 | 33.8 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
 Modified: 7/1/2020 2:49:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 76

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 161.5 | RNA Integrity Number (RIN): | 9.5 (B.02.10) |
| RNA Concentration: | 77 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.7 | Result Flagging Label: | RIN: 9.50 |

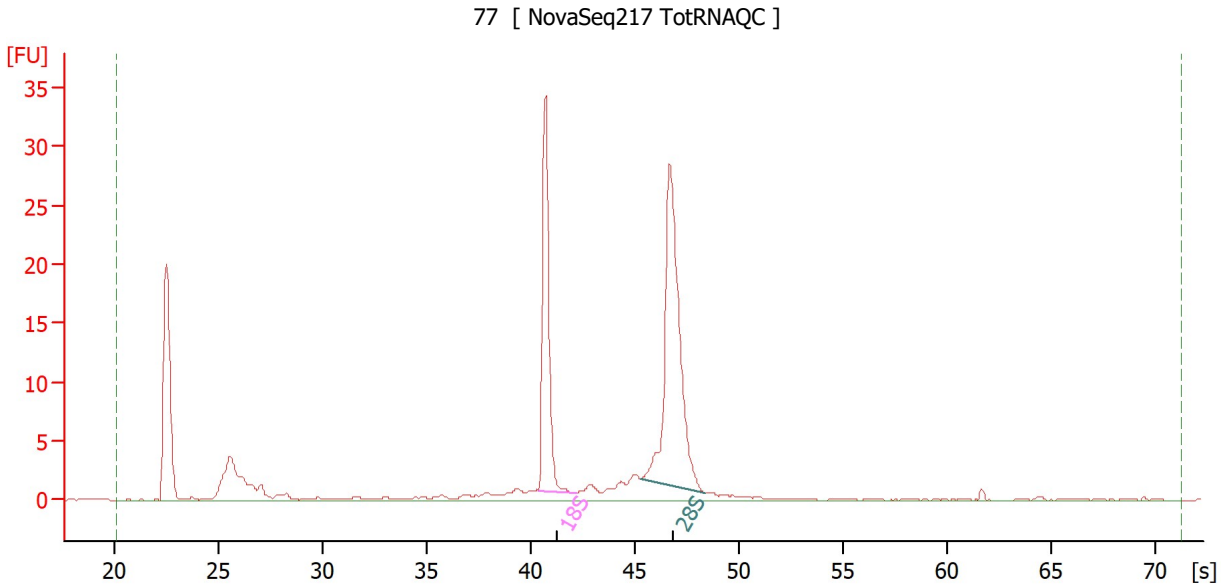
Fragment table for sample 4 : 76

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.37 | 41.91 | 31.8 | 19.7 |
| 28S | 45.41 | 48.55 | 55.3 | 34.2 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
 Modified: 7/1/2020 2:49:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 77

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 132.1 | RNA Integrity Number (RIN): | 9.8 (B.02.10) |
| RNA Concentration: | 63 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.7 | Result Flagging Label: | RIN: 9.80 |

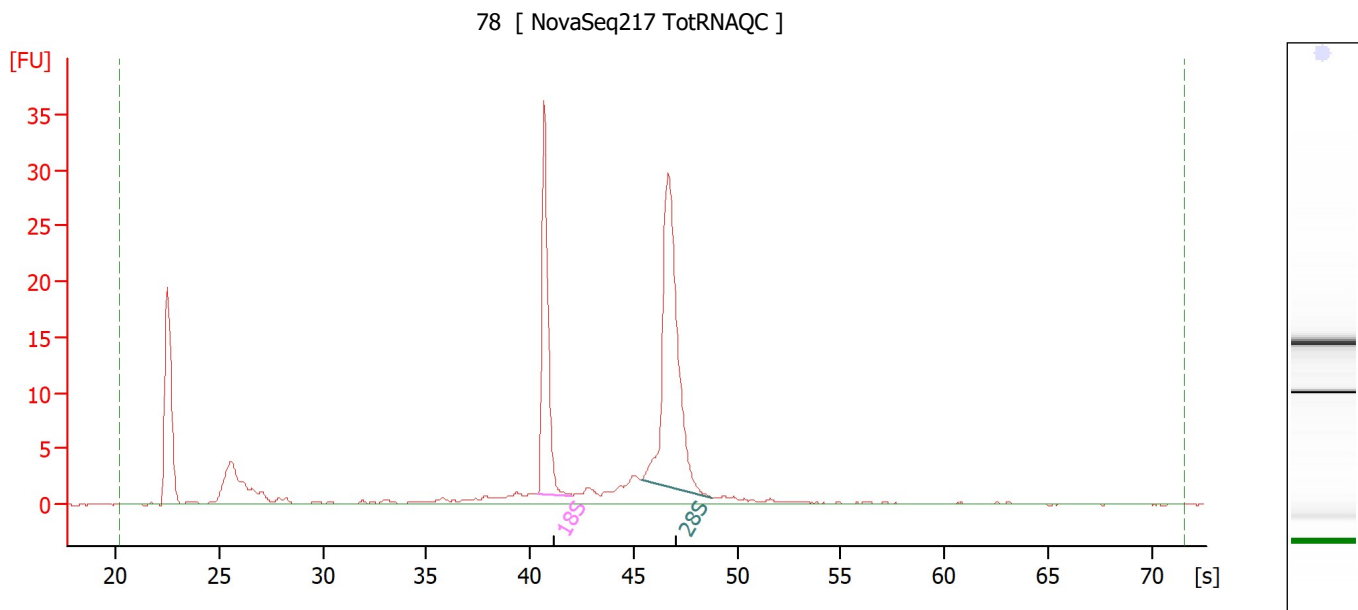
Fragment table for sample 5 : 77

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.41 | 42.16 | 27.3 | 20.7 |
| 28S | 45.26 | 48.35 | 47.3 | 35.8 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
 Modified: 7/1/2020 2:49:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 78

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 138.5 | RNA Integrity Number (RIN): | 9.7 (B.02.10) |
| RNA Concentration: | 66 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.7 | Result Flagging Label: | RIN: 9.70 |

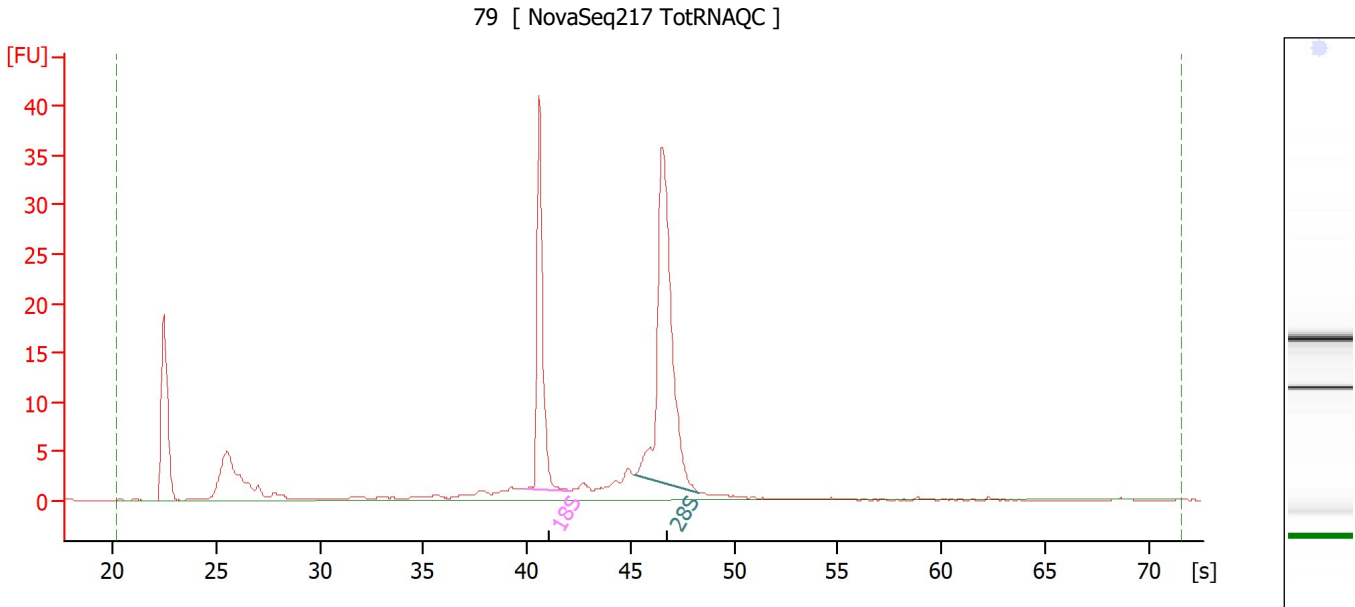
Fragment table for sample 6 : 78

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.39 | 42.04 | 28.7 | 20.7 |
| 28S | 45.36 | 48.73 | 49.4 | 35.7 |

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
Modified: 7/1/2020 2:49:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 79

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 155.8 | RNA Integrity Number (RIN): | 9.6 (B.02.10) |
| RNA Concentration: | 74 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.8 | Result Flagging Label: | RIN: 9.60 |

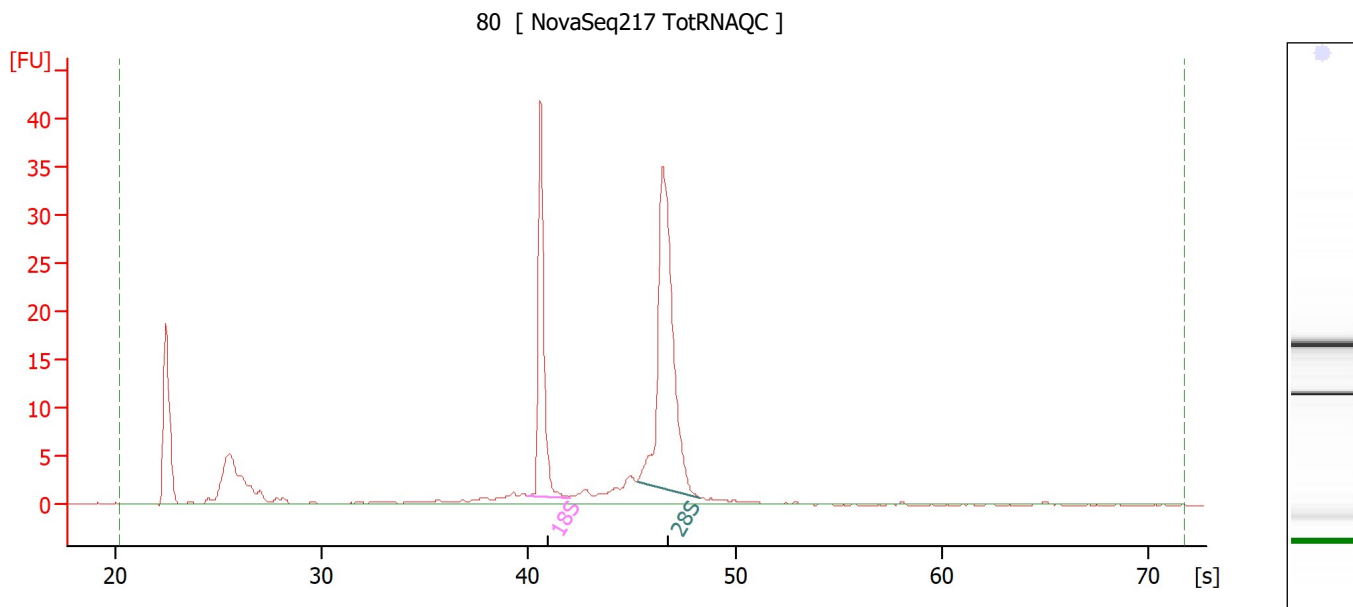
Fragment table for sample 7 : 79

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 39.97 | 42.10 | 31.8 | 20.4 |
| 28S | 45.16 | 48.32 | 56.6 | 36.3 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
 Modified: 7/1/2020 2:49:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 80

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 152.4 | RNA Integrity Number (RIN): | 9.8 (B.02.10) |
| RNA Concentration: | 72 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.8 | Result Flagging Label: | RIN: 9.80 |

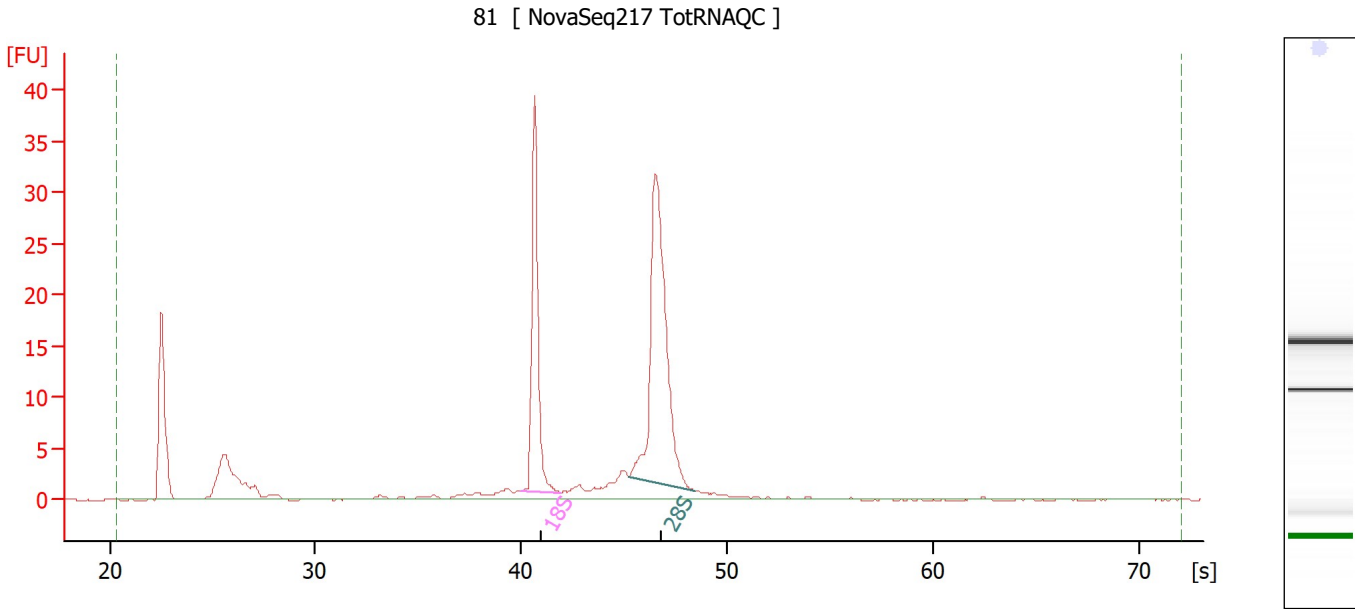
Fragment table for sample 8 : 80

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.01 | 41.99 | 33.3 | 21.9 |
| 28S | 45.26 | 48.27 | 59.9 | 39.3 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
 Modified: 7/1/2020 2:49:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 81

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 146.5 | RNA Integrity Number (RIN): | 9.8 (B.02.10) |
| RNA Concentration: | 70 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.8 | Result Flagging Label: | RIN: 9.80 |

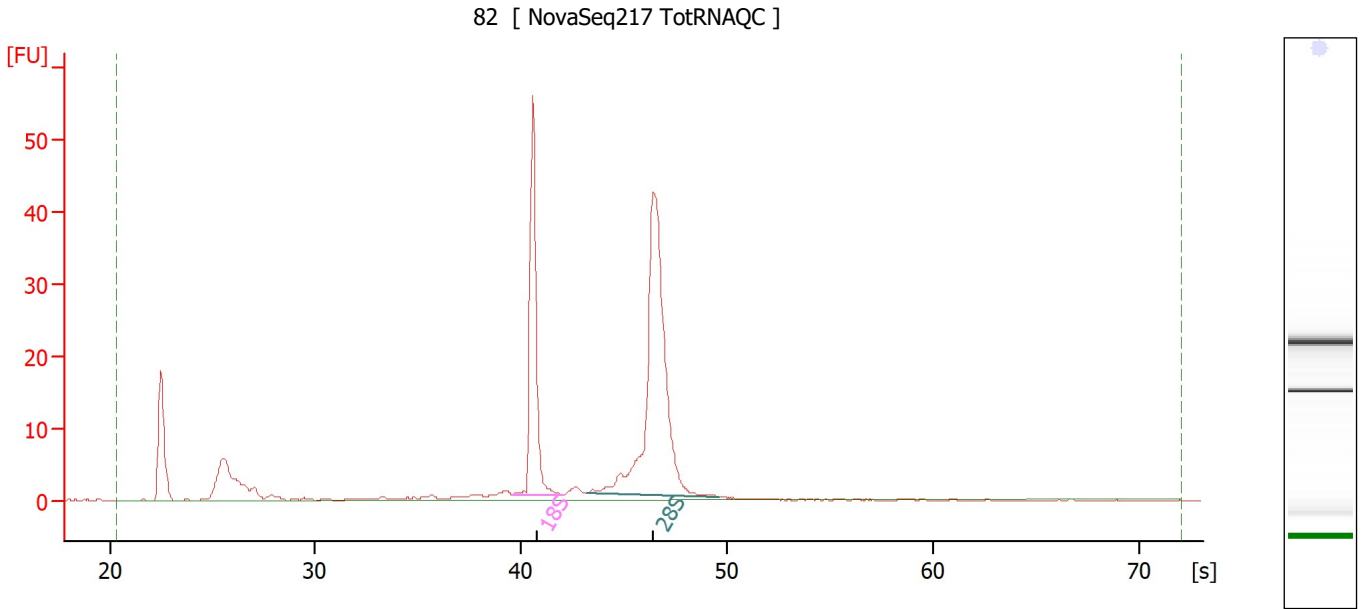
Fragment table for sample 9 : 81

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 39.99 | 41.92 | 32.4 | 22.1 |
| 28S | 45.26 | 48.39 | 57.2 | 39.0 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
 Modified: 7/1/2020 2:49:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 82

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 196.9 | RNA Integrity Number (RIN): | 9.9 (B.02.10) |
| RNA Concentration: | 94 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 2.1 | Result Flagging Label: | RIN: 9.90 |

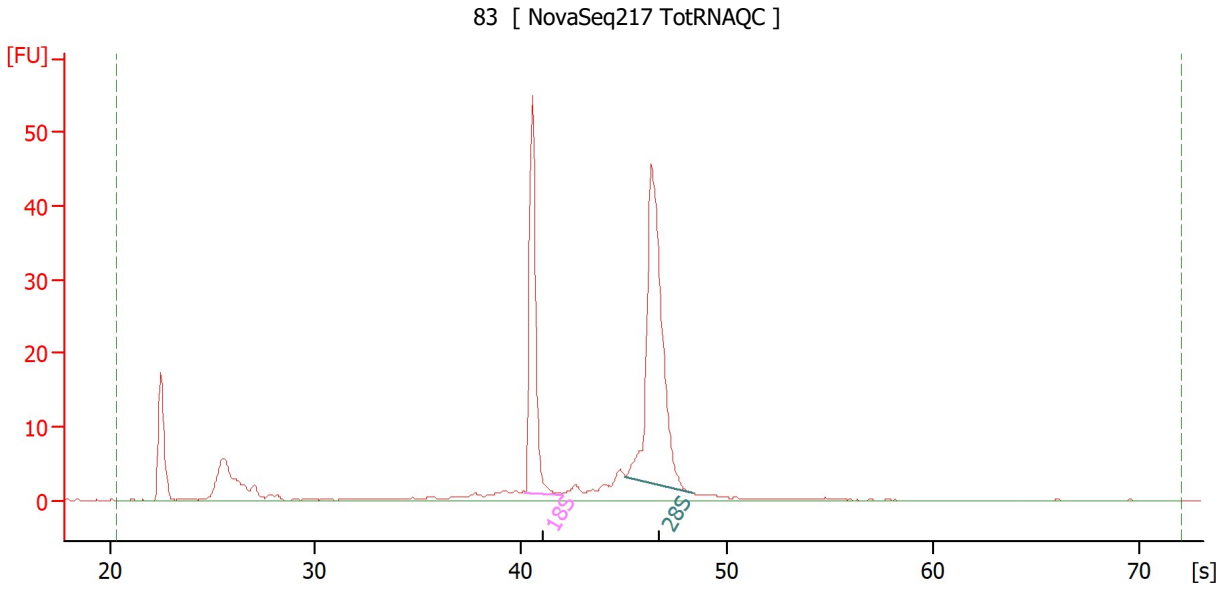
Fragment table for sample 10 : 82

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 39.62 | 41.97 | 45.2 | 23.0 |
| 28S | 43.17 | 49.59 | 93.6 | 47.6 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
 Modified: 7/1/2020 2:49:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 83

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 205.7 | RNA Integrity Number (RIN): | 9.8 (B.02.10) |
| RNA Concentration: | 98 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.8 | Result Flagging Label: | RIN: 9.80 |

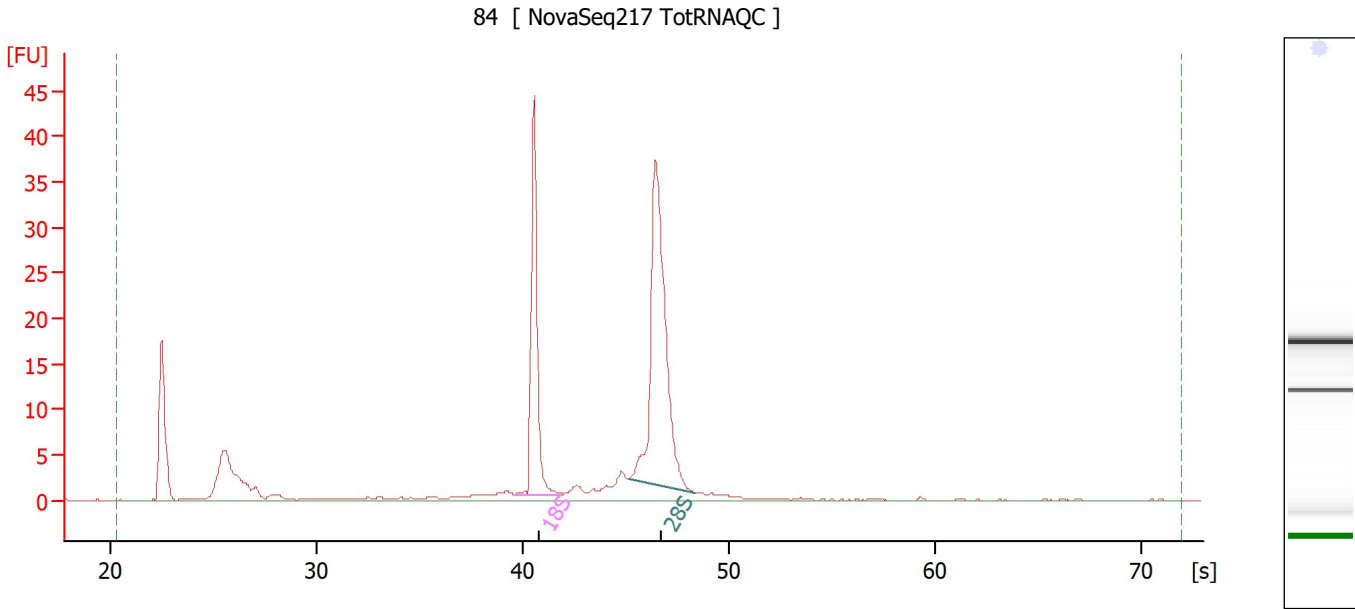
Fragment table for sample 11 : 83

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.20 | 41.97 | 44.8 | 21.8 |
| 28S | 45.05 | 48.29 | 80.1 | 38.9 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
 Modified: 7/1/2020 2:49:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 84

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 169.7 | RNA Integrity Number (RIN): | 9.8 (B.02.10) |
| RNA Concentration: | 81 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.8 | Result Flagging Label: | RIN: 9.80 |

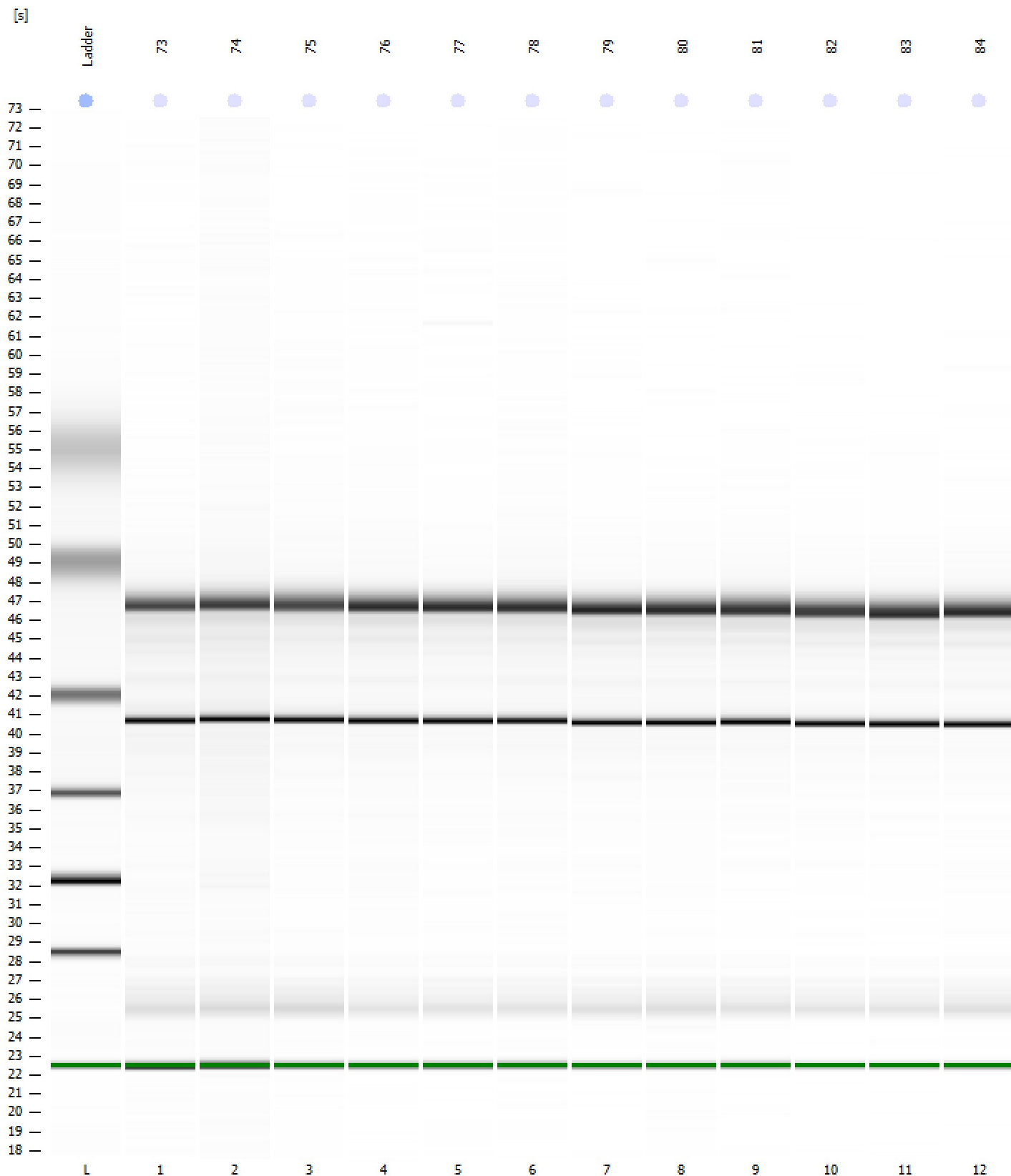
Fragment table for sample 12 : 84

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 39.58 | 41.93 | 35.1 | 20.7 |
| 28S | 45.10 | 48.28 | 63.4 | 37.4 |

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad

Created: 7/1/2020 2:05:11 PM
Modified: 7/1/2020 2:49:41 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 7/1/2020 2:05:11 PM
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_001.xad Modified: 7/1/2020 2:49:41 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|--|--------|------------|----------|--------------|---------------------|-------------------------------------|---------|------------------|
| Run ended on port 1 (Number of wells acquired: 13) | | Instrument | Run | | 7/1/2020 2:29:04 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Run started on port 1 (File: Z:\XADs\2020-07-01\Bioanalyze r1_Eukaryote Total RNA Nano_2020-07-01_001.xad) | | Instrument | Run | | 7/1/2020 2:05:17 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Product Number : G2938C | | Instrument | Run | | 7/1/2020 2:05:17 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Name : | | Instrument | Run | | 7/1/2020 2:05:17 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Vendor : Agilent Technologies | | Instrument | Run | | 7/1/2020 2:05:17 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Serial# : DE34903152 | | Instrument | Run | | 7/1/2020 2:05:17 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Firmware : C.01.069 | | Instrument | Run | | 7/1/2020 2:05:17 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Cartridge : Electrode | | Instrument | Run | | 7/1/2020 2:05:17 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |