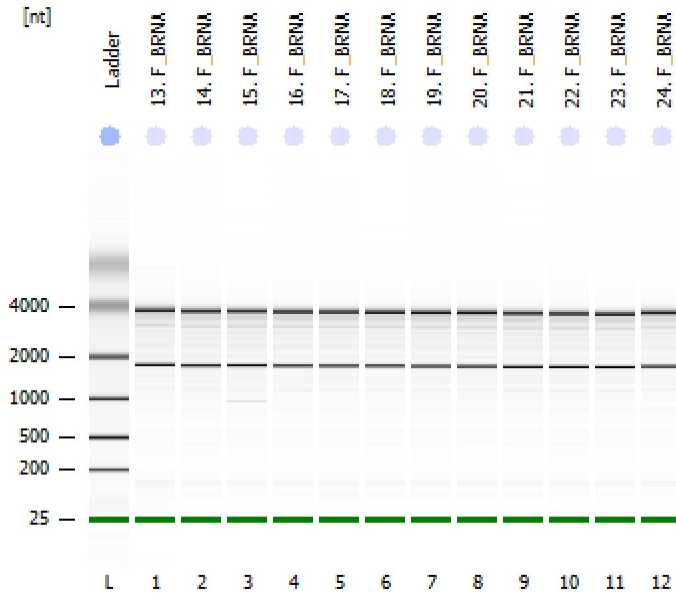


Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
Modified: 9/21/2020 5:30:47 PM

Electrophoresis File Run Summary



Instrument Information:

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

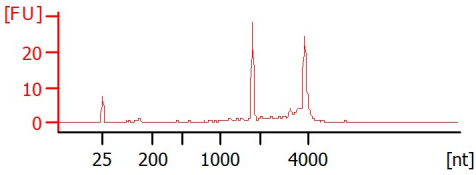
Assay Information:

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.

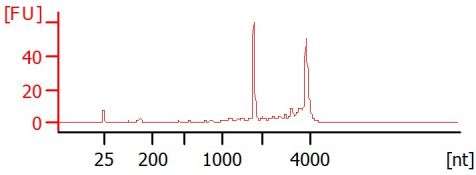
Chip Information:

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

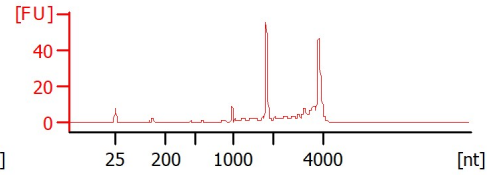
13. F_BRNA_13
QC662
RIN: 8.70



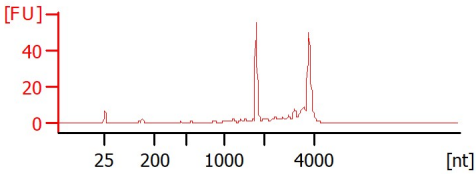
14. F_BRNA_14
QC662
RIN: 8.40



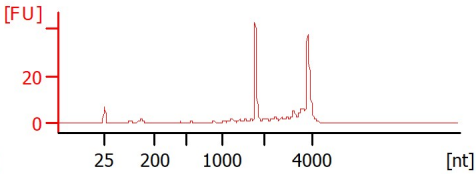
15. F_BRNA_15
QC662
RIN: 8.20



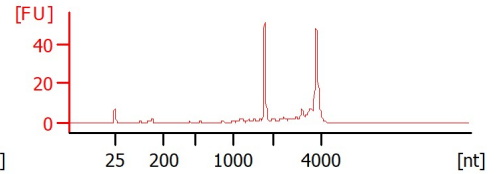
16. F_BRNA_16
QC662
RIN: 8.60



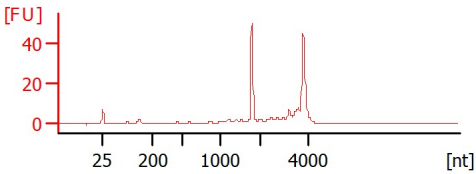
17. F_BRNA_17
QC662
RIN: 8.60



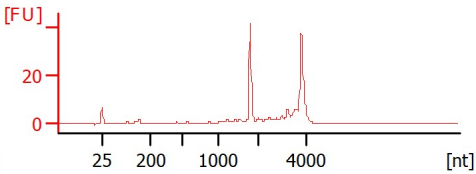
18. F_BRNA_18
QC662
RIN: 8.60



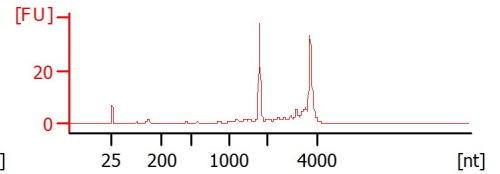
19. F_BRNA_19
QC662
RIN: 8.50



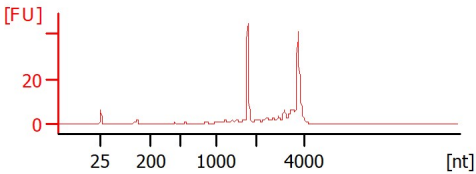
20. F_BRNA_20
QC662
RIN: 8.50



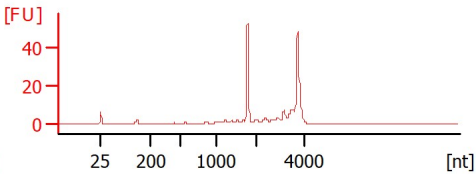
21. F_BRNA_21
QC662
RIN: 8.70



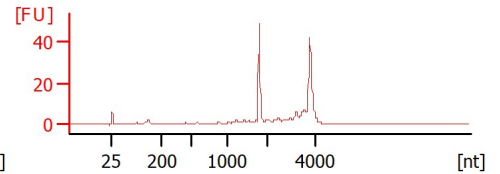
22. F_BRNA_22
QC662
RIN: 8.80



23. F_BRNA_23
QC662
RIN: 8.50



24. F_BRNA_24
QC662
RIN: 8.60



Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
 Modified: 9/21/2020 5:30:47 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|---------------|----------------|--------|-------------------|--------------|
| 13. F_BRNA_13 | QC662 | ✓ | RIN: 8.70 | |
| 14. F_BRNA_14 | QC662 | ✓ | RIN: 8.40 | |
| 15. F_BRNA_15 | QC662 | ✓ | RIN: 8.20 | |
| 16. F_BRNA_16 | QC662 | ✓ | RIN: 8.60 | |
| 17. F_BRNA_17 | QC662 | ✓ | RIN: 8.60 | |
| 18. F_BRNA_18 | QC662 | ✓ | RIN: 8.60 | |
| 19. F_BRNA_19 | QC662 | ✓ | RIN: 8.50 | |
| 20. F_BRNA_20 | QC662 | ✓ | RIN: 8.50 | |
| 21. F_BRNA_21 | QC662 | ✓ | RIN: 8.70 | |
| 22. F_BRNA_22 | QC662 | ✓ | RIN: 8.80 | |
| 23. F_BRNA_23 | QC662 | ✓ | RIN: 8.50 | |
| 24. F_BRNA_24 | QC662 | ✓ | RIN: 8.60 | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
 Modified: 9/21/2020 5:30:47 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

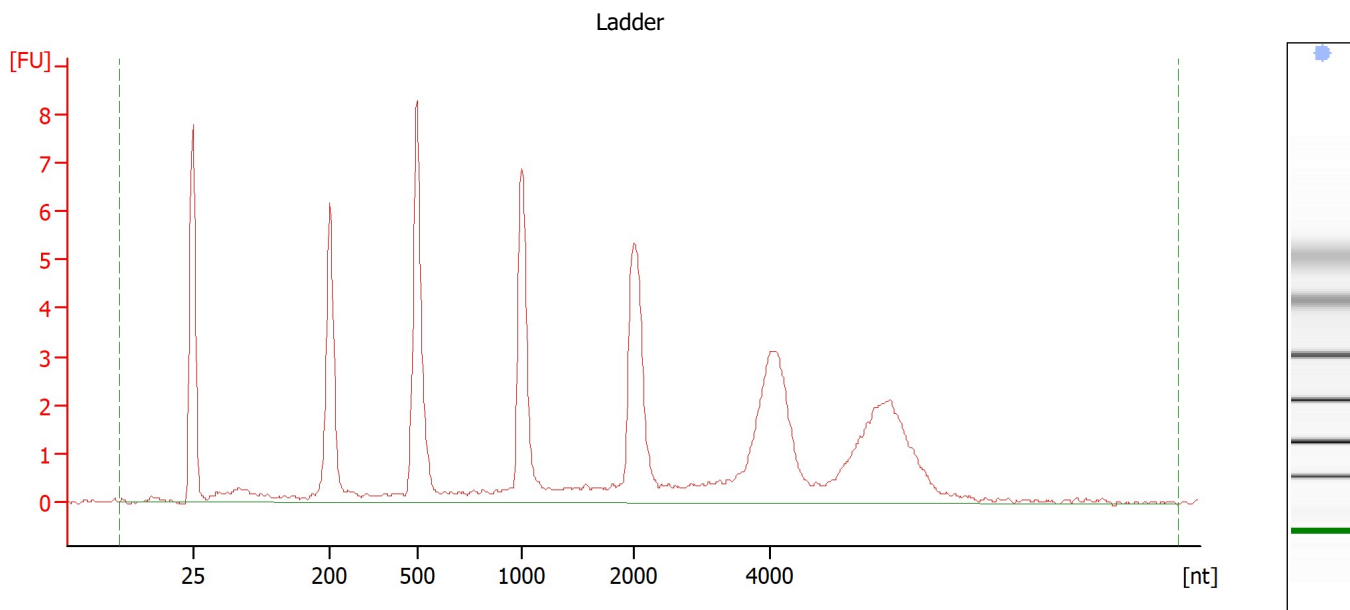
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
Modified: 9/21/2020 5:30:47 PM

Electropherogram Summary



Overall Results for Ladder

RNA Area: 76.7

Result Flagging Color:

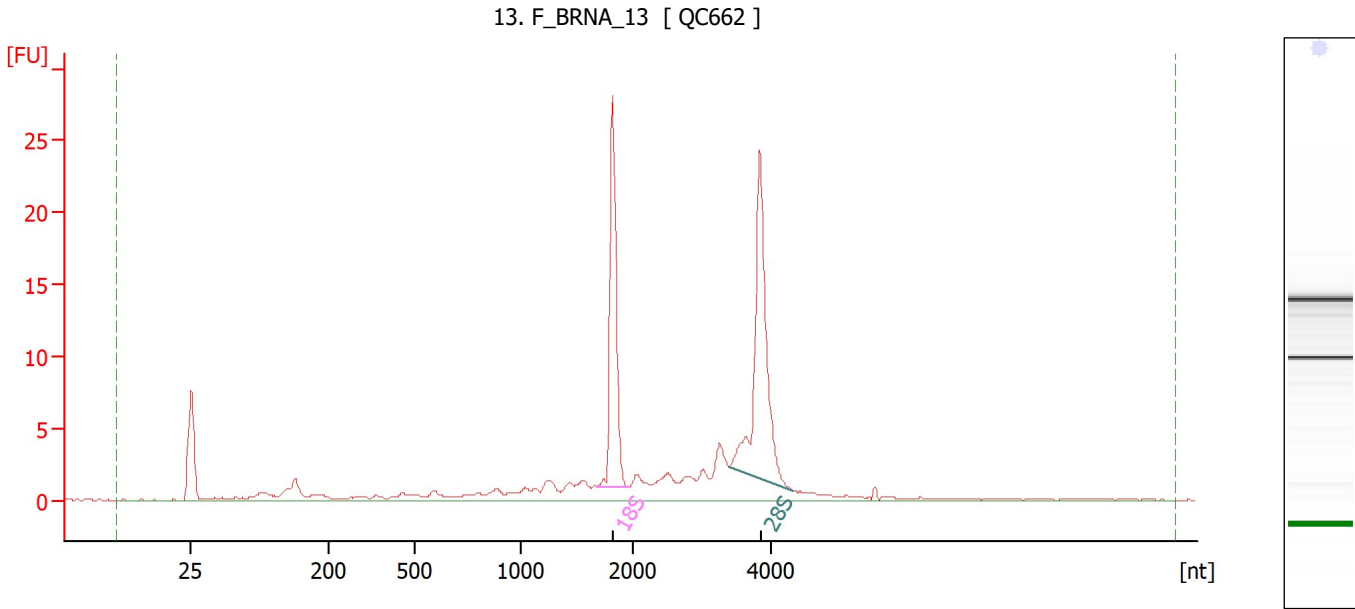
RNA Concentration: 150 ng/μl

Result Flagging Label: All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
 Modified: 9/21/2020 5:30:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 13. F BRNA 13

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 110.6 | RNA Integrity Number (RIN): | 8.7 (B.02.10) |
| RNA Concentration: | 216 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.4 | Result Flagging Label: | RIN: 8.70 |

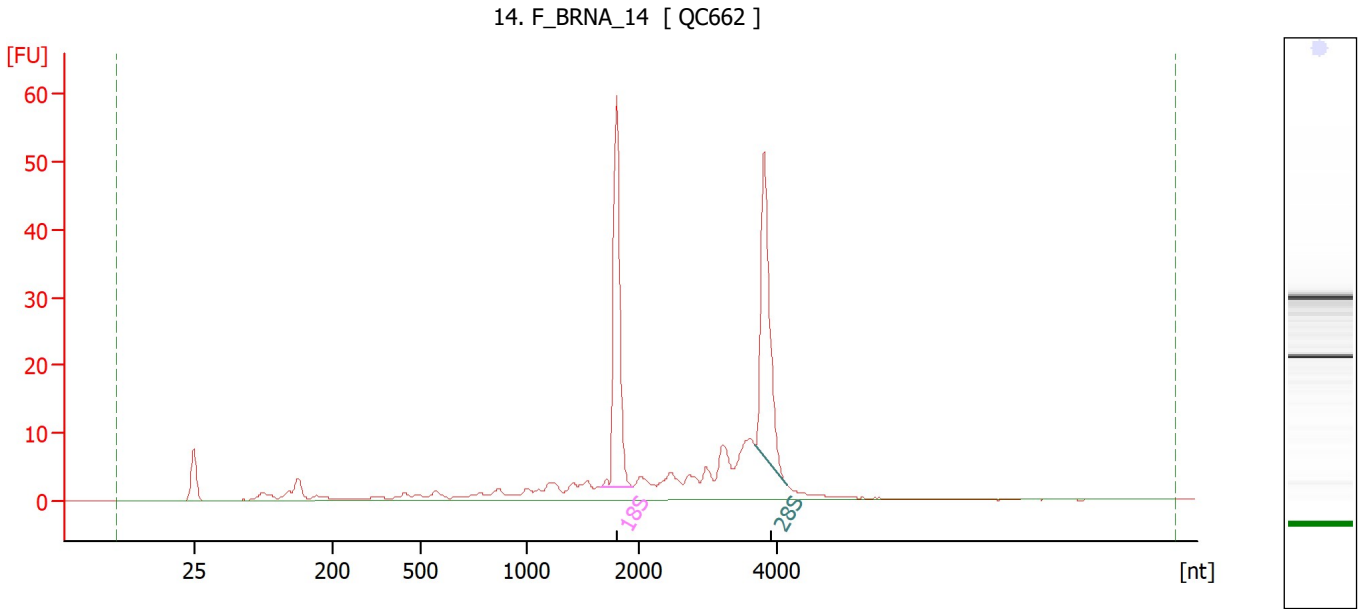
Fragment table for sample 1 : 13. F BRNA 13

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,687 | 1,962 | 20.5 | 18.6 |
| 28S | 3,404 | 4,340 | 28.6 | 25.9 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
 Modified: 9/21/2020 5:30:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 14. F BRNA 14

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 216.6 | RNA Integrity Number (RIN): | 8.4 (B.02.10) |
| RNA Concentration: | 424 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.0 | Result Flagging Label: | RIN: 8.40 |

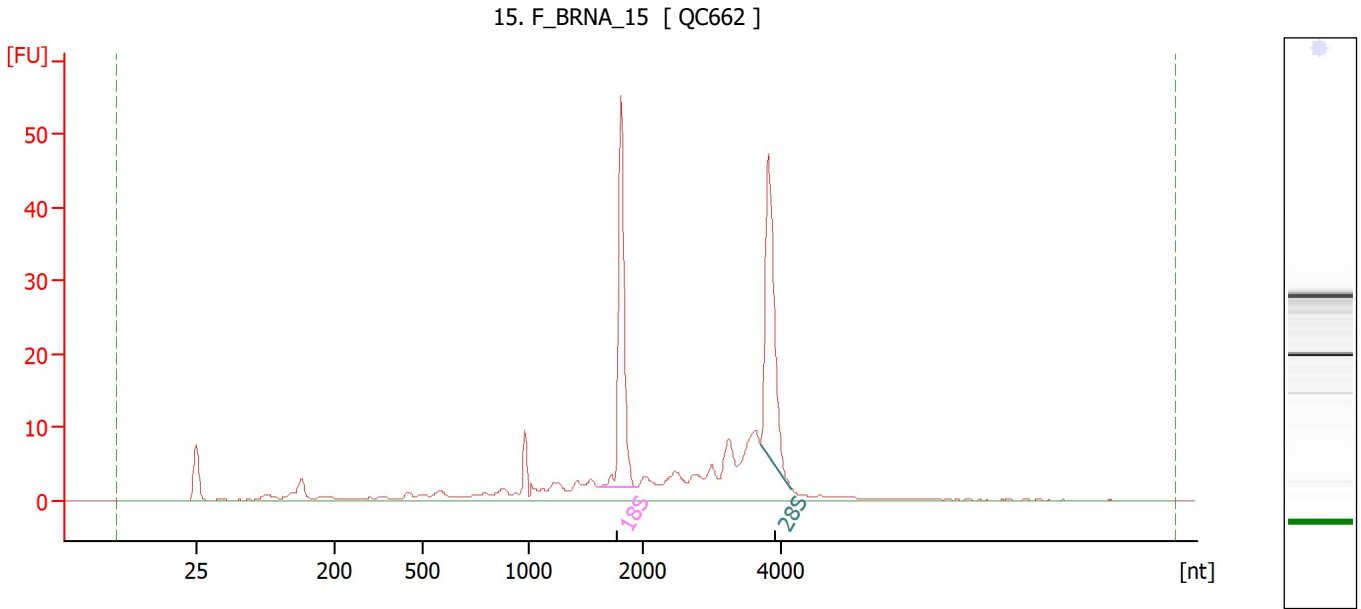
Fragment table for sample 2 : 14. F BRNA 14

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,663 | 1,937 | 44.2 | 20.4 |
| 28S | 3,678 | 4,143 | 43.9 | 20.3 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
 Modified: 9/21/2020 5:30:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 15. F BRNA 15

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 206.9 | RNA Integrity Number (RIN): | 8.2 (B.02.10) |
| RNA Concentration: | 405 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.9 | Result Flagging Label: | RIN: 8.20 |

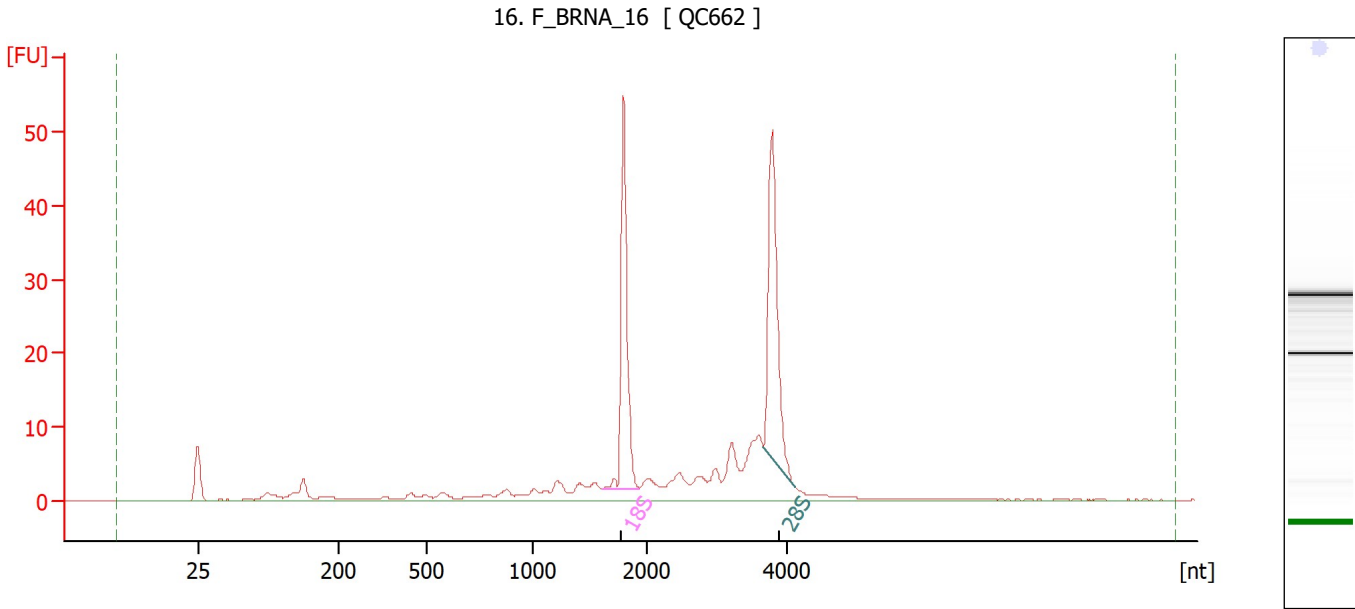
Fragment table for sample 3 : 15. F BRNA 15

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,610 | 1,949 | 40.8 | 19.7 |
| 28S | 3,690 | 4,137 | 38.6 | 18.7 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
 Modified: 9/21/2020 5:30:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 16. F BRNA 16

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 196.7 | RNA Integrity Number (RIN): | 8.6 (B.02.10) |
| RNA Concentration: | 385 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.0 | Result Flagging Label: | RIN: 8.60 |

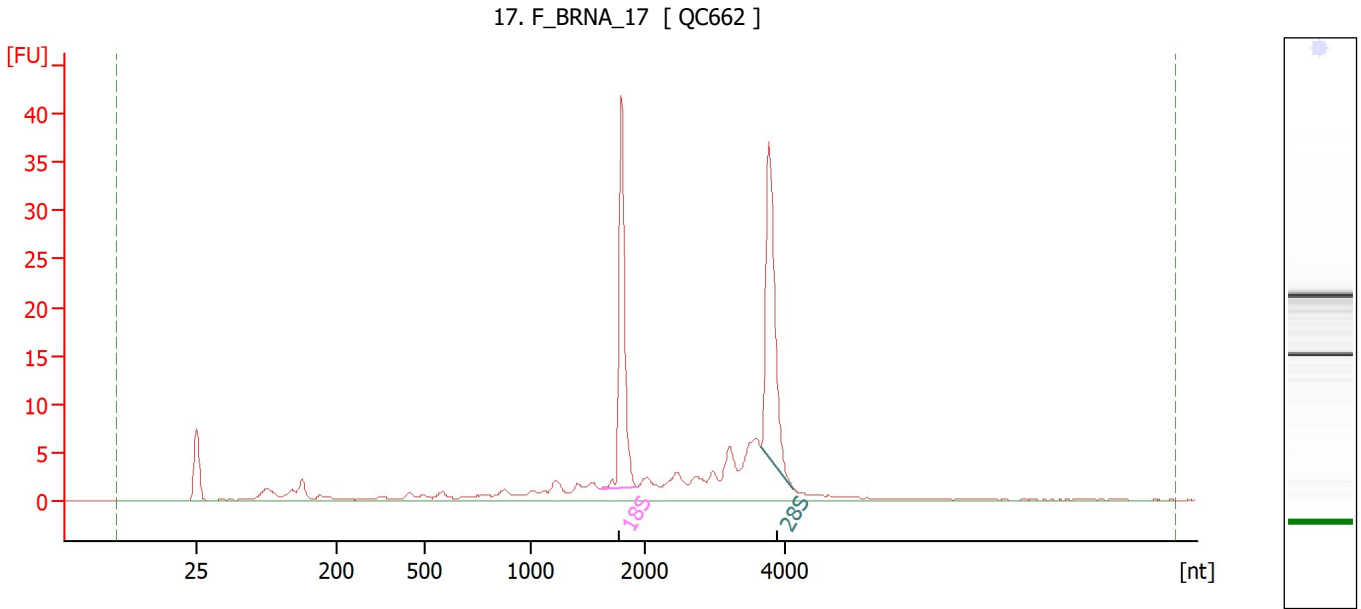
Fragment table for sample 4 : 16. F BRNA 16

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,604 | 1,932 | 40.1 | 20.4 |
| 28S | 3,670 | 4,115 | 40.9 | 20.8 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
 Modified: 9/21/2020 5:30:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 17. F BRNA 17

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 148.7 | RNA Integrity Number (RIN): | 8.6 (B.02.10) |
| RNA Concentration: | 291 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.0 | Result Flagging Label: | RIN: 8.60 |

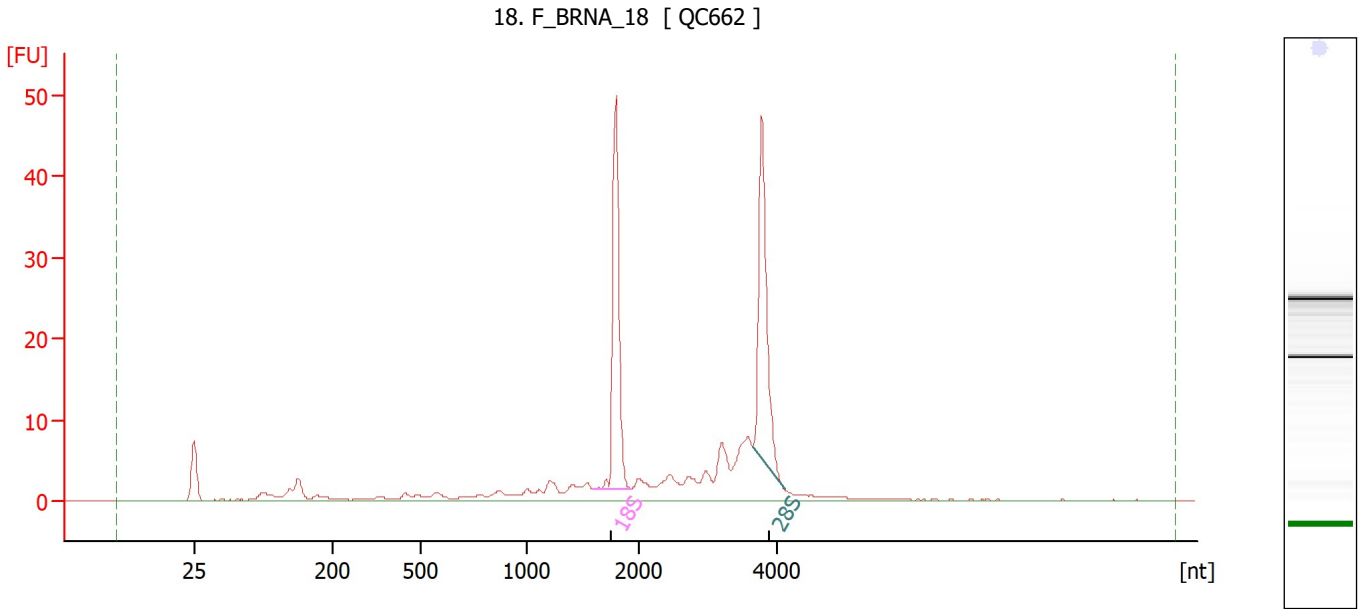
Fragment table for sample 5 : 17. F BRNA 17

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,603 | 1,922 | 30.1 | 20.2 |
| 28S | 3,657 | 4,134 | 30.6 | 20.6 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
 Modified: 9/21/2020 5:30:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 18. F BRNA 18

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 174.7 | RNA Integrity Number (RIN): | 8.6 (B.02.10) |
| RNA Concentration: | 342 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.1 | Result Flagging Label: | RIN: 8.60 |

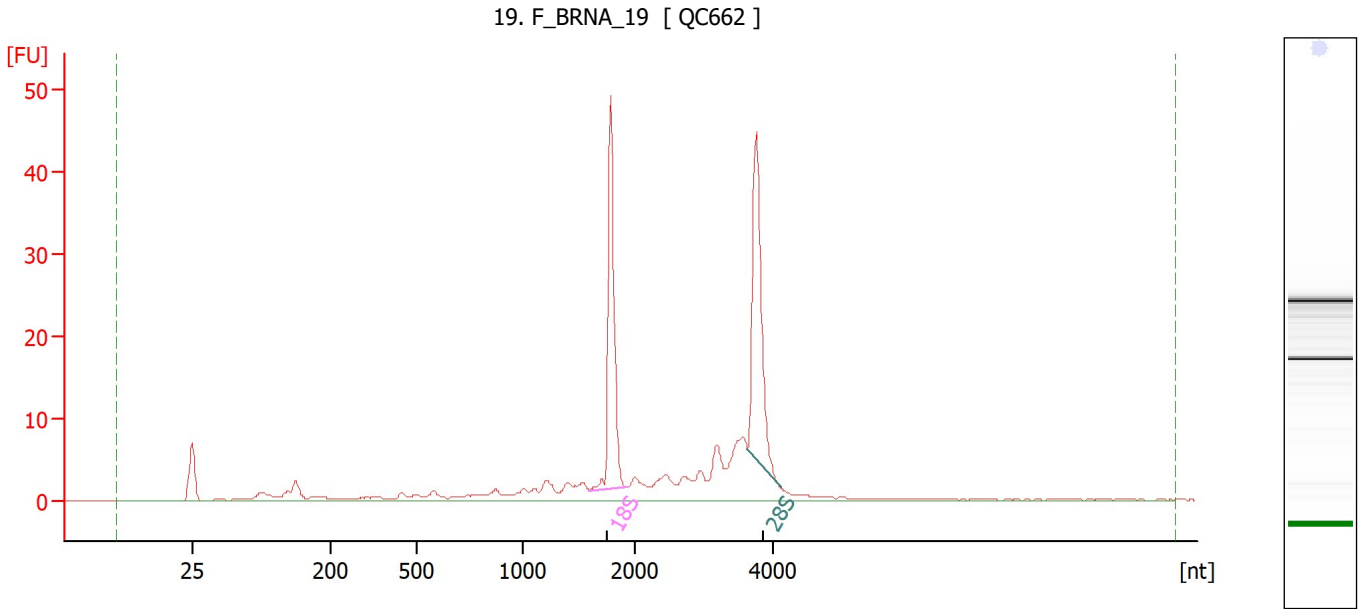
Fragment table for sample 6 : 18. F BRNA 18

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,597 | 1,928 | 35.9 | 20.5 |
| 28S | 3,647 | 4,112 | 38.0 | 21.7 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
 Modified: 9/21/2020 5:30:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 19. F BRNA 19

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 173.7 | RNA Integrity Number (RIN): | 8.5 (B.02.10) |
| RNA Concentration: | 340 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.0 | Result Flagging Label: | RIN: 8.50 |

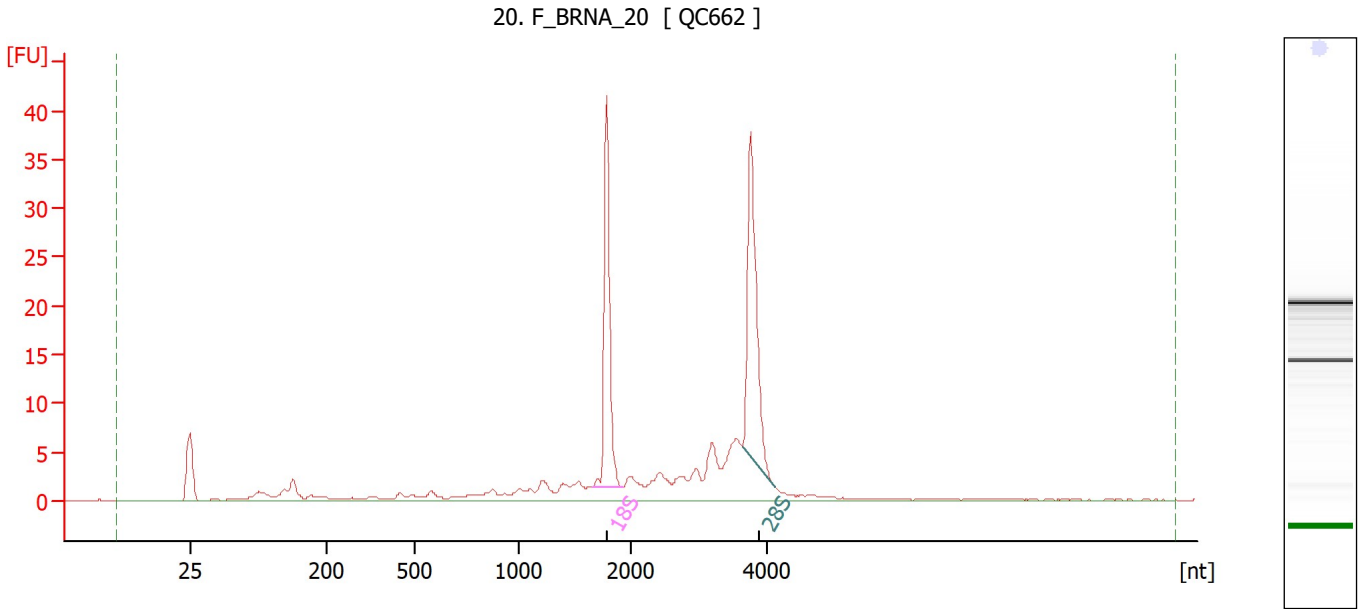
Fragment table for sample 7 : 19. F BRNA 19

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,594 | 1,926 | 35.8 | 20.6 |
| 28S | 3,636 | 4,118 | 36.8 | 21.2 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
 Modified: 9/21/2020 5:30:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 20. F BRNA 20

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 152.9 | RNA Integrity Number (RIN): | 8.5 (B.02.10) |
| RNA Concentration: | 299 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.1 | Result Flagging Label: | RIN: 8.50 |

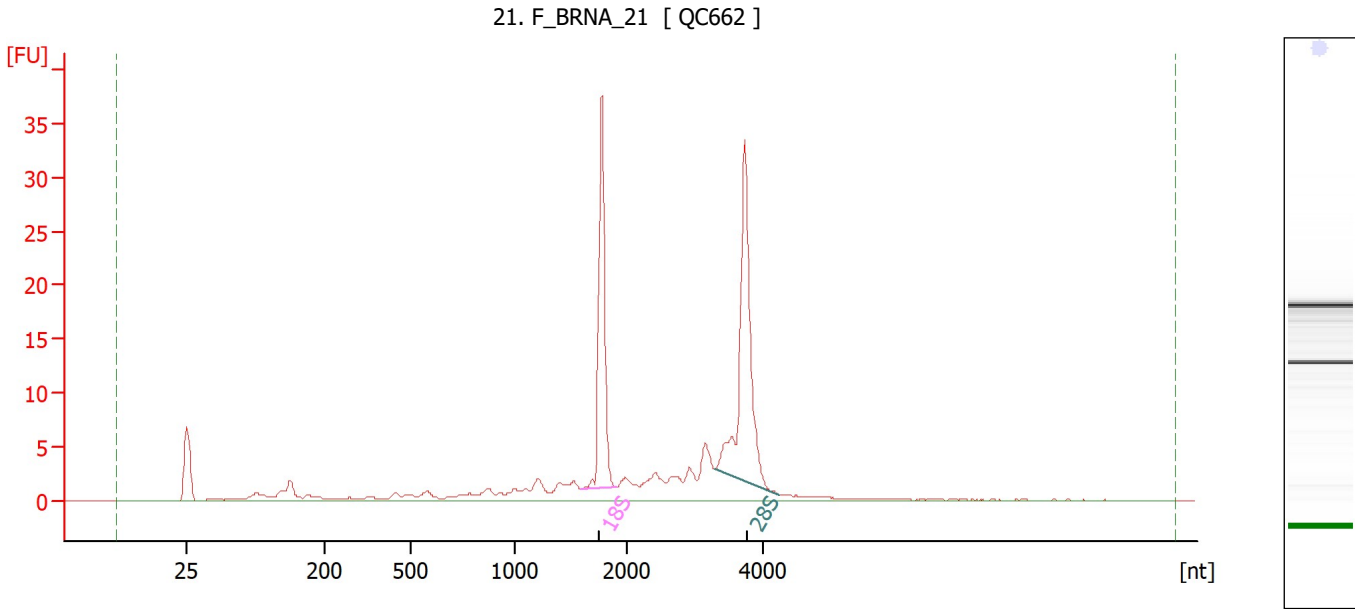
Fragment table for sample 8 : 20. F BRNA 20

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,657 | 1,923 | 29.8 | 19.5 |
| 28S | 3,625 | 4,093 | 32.0 | 21.0 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
 Modified: 9/21/2020 5:30:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 21. F BRNA 21

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 136.5 | RNA Integrity Number (RIN): | 8.7 (B.02.10) |
| RNA Concentration: | 267 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.4 | Result Flagging Label: | RIN: 8.70 |

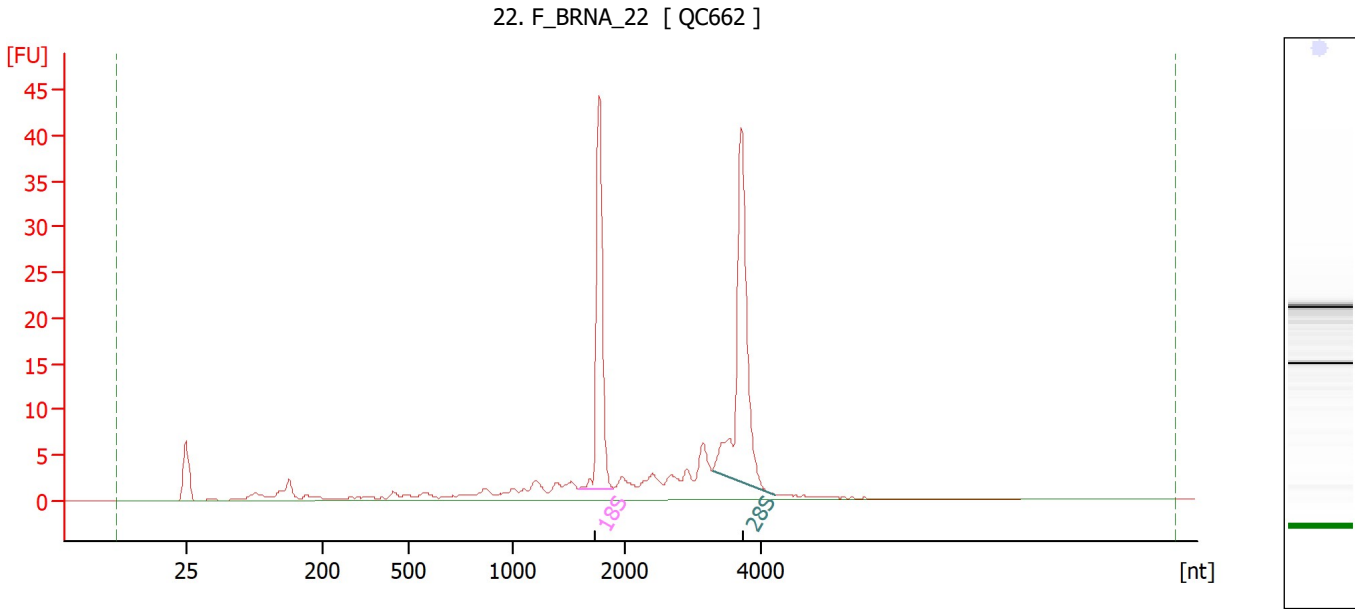
Fragment table for sample 9 : 21. F BRNA 21

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,596 | 1,902 | 27.1 | 19.9 |
| 28S | 3,283 | 4,225 | 36.6 | 26.8 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
 Modified: 9/21/2020 5:30:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 22. F BRNA 22

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 161.3 | RNA Integrity Number (RIN): | 8.8 (B.02.10) |
| RNA Concentration: | 316 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.4 | Result Flagging Label: | RIN: 8.80 |

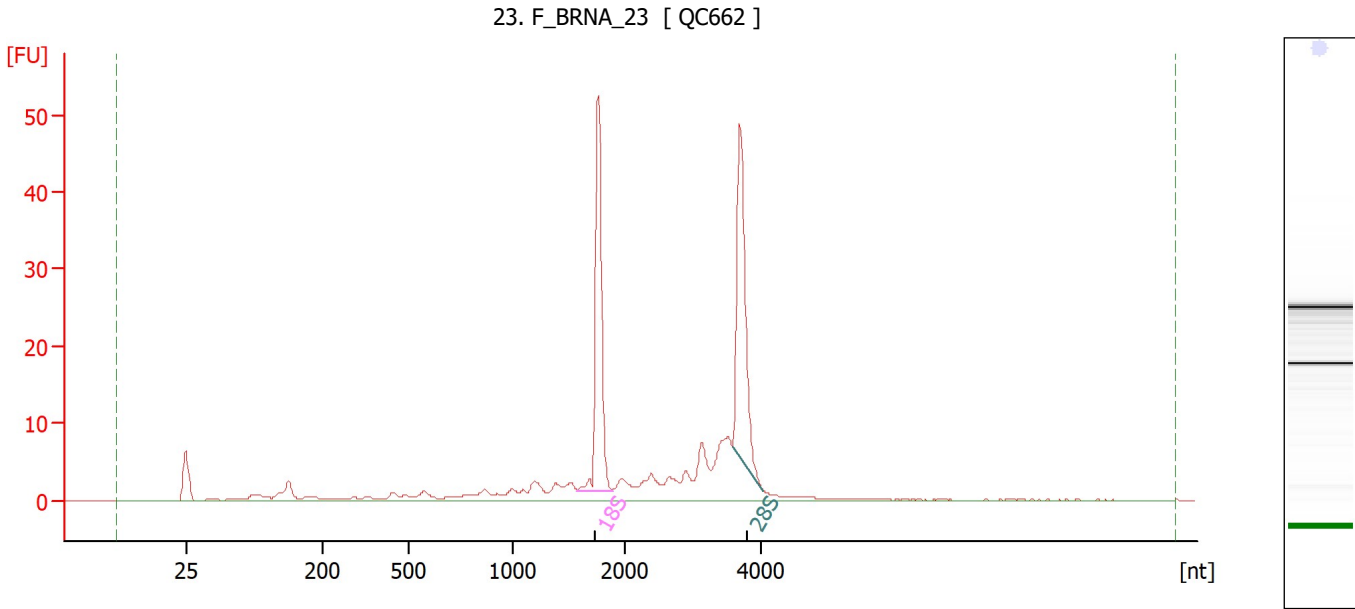
Fragment table for sample 10 : 22. F BRNA 22

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,584 | 1,901 | 31.5 | 19.5 |
| 28S | 3,285 | 4,197 | 44.0 | 27.3 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
 Modified: 9/21/2020 5:30:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 23. F BRNA 23

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 182.1 | RNA Integrity Number (RIN): | 8.5 (B.02.10) |
| RNA Concentration: | 356 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.0 | Result Flagging Label: | RIN: 8.50 |

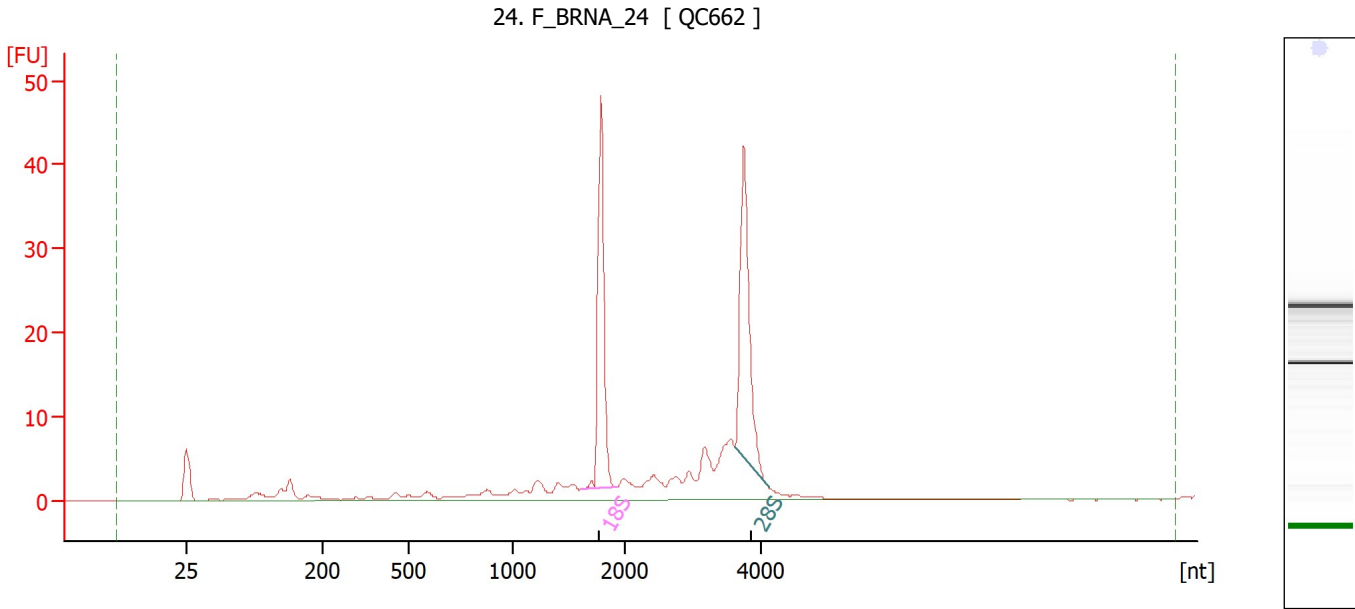
Fragment table for sample 11 : 23. F BRNA 23

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,575 | 1,891 | 37.9 | 20.8 |
| 28S | 3,583 | 4,040 | 38.7 | 21.2 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
 Modified: 9/21/2020 5:30:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 24. F BRNA 24

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 161.3 | RNA Integrity Number (RIN): | 8.6 (B.02.10) |
| RNA Concentration: | 316 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.1 | Result Flagging Label: | RIN: 8.60 |

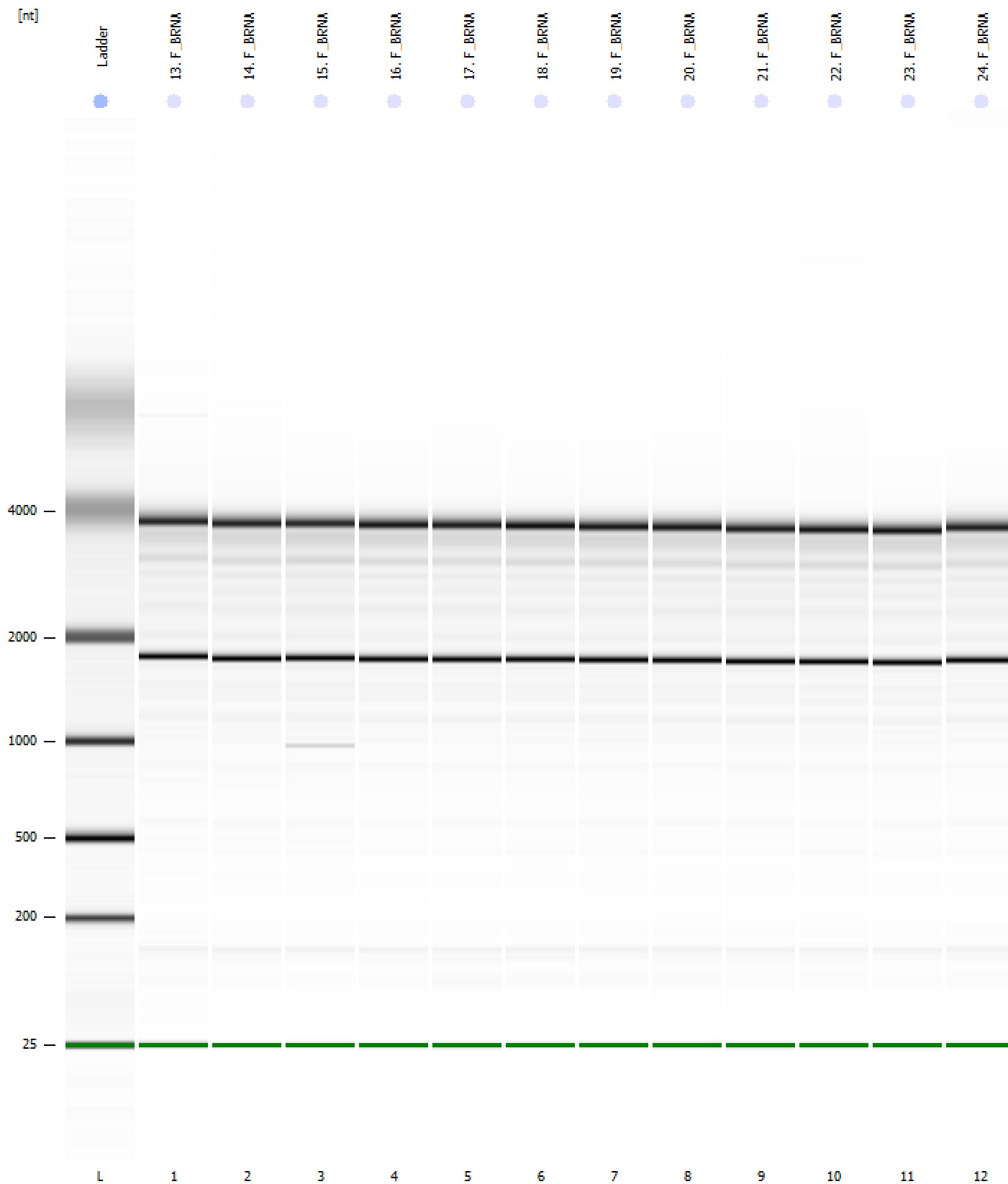
Fragment table for sample 12 : 24. F BRNA 24

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,604 | 1,920 | 34.3 | 21.3 |
| 28S | 3,615 | 4,118 | 36.1 | 22.4 |

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad

Created: 9/21/2020 5:07:42 PM
Modified: 9/21/2020 5:30:47 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 9/21/2020 5:07:42 PM
 Data Path: Z:\...21\Bioanalyzer1_Eukaryote Total RNA Nano_2020-09-21_002.xad Modified: 9/21/2020 5:30:47 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 | | 9/21/2020 5:30:45 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Run started on port 1 (File: Z:\XADs\2020-09-21\Bioanalyze r1_Eukaryote Total RNA Nano_2020-09-21_002.xad) | | Instrument | Run | | 9/21/2020 5:07:48 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Product Number : G2938C | | Instrument | Run | | 9/21/2020 5:07:48 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Name : | | Instrument | Run | | 9/21/2020 5:07:48 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Vendor : Agilent Technologies | | Instrument | Run | | 9/21/2020 5:07:48 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Serial# : DE34903152 | | Instrument | Run | | 9/21/2020 5:07:48 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Firmware : C.01.069 | | Instrument | Run | | 9/21/2020 5:07:48 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Cartridge : Electrode | | Instrument | Run | | 9/21/2020 5:07:48 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |