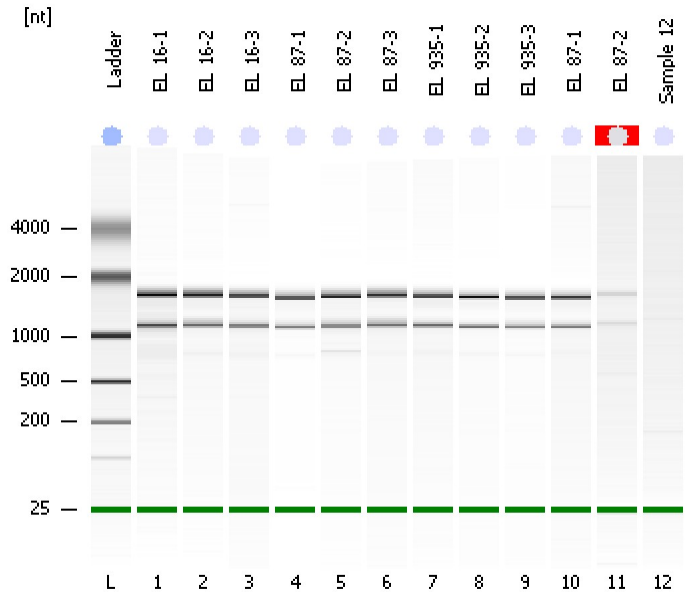


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
Modified: 3/26/2018 1:34:56 PM

Electrophoresis File Run Summary



Instrument Information:

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

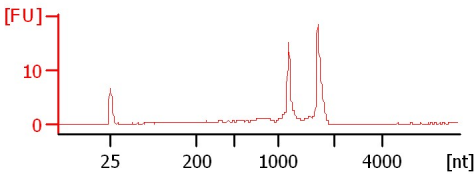
Assay Information:

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

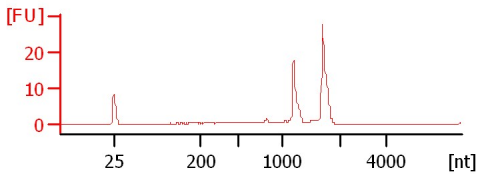
Chip Information:

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

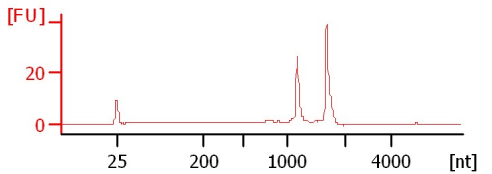
EL 16-1
RIN: 7



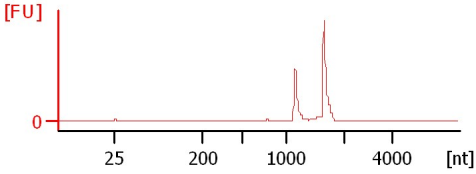
EL 16-2
RIN: 6.80



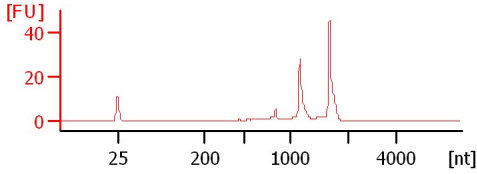
EL 16-3
RIN: 7



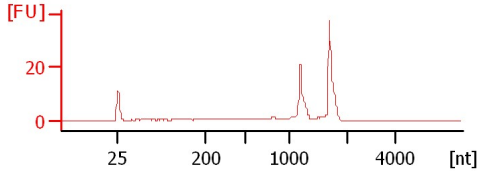
EL 87-1
RIN: 7.50



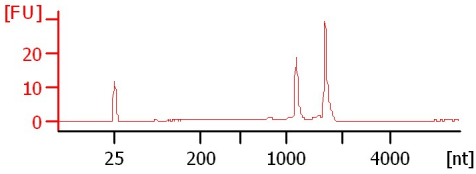
EL 87-2
RIN: 7.20



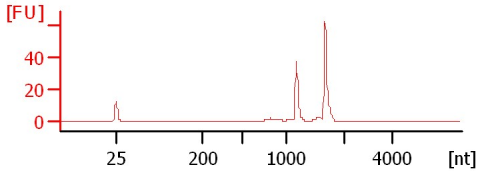
EL 87-3
RIN: 7.30



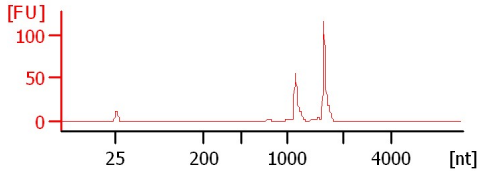
EL 935-1
RIN: 4.40



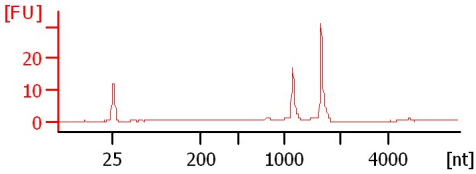
EL 935-2
RIN: 7.50



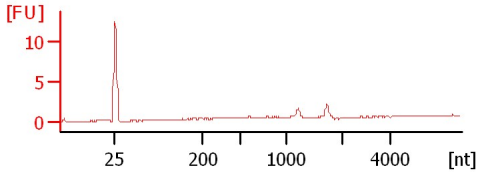
EL 935-3
RIN: 7.30



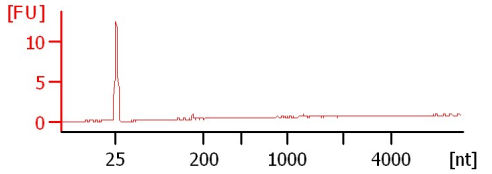
EL 87-1
RIN: 6.70



EL 87-2
RIN N/A



Sample 12
RIN: 1.40



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
 Modified: 3/26/2018 1:34:56 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| EL 16-1 | | ✓ | RIN:7 | |
| EL 16-2 | | ✓ | RIN: 6.80 | |
| EL 16-3 | | ✓ | RIN:7 | |
| EL 87-1 | | ✓ | RIN: 7.50 | |
| EL 87-2 | | ✓ | RIN: 7.20 | |
| EL 87-3 | | ✓ | RIN: 7.30 | |
| EL 935-1 | | ✓ | RIN: 4.40 | |
| EL 935-2 | | ✓ | RIN: 7.50 | |
| EL 935-3 | | ✓ | RIN: 7.30 | |
| EL 87-1 | | ✓ | RIN: 6.70 | |
| EL 87-2 | | ✓ | RIN N/A | |
| Sample 12 | | ✓ | RIN: 1.40 | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

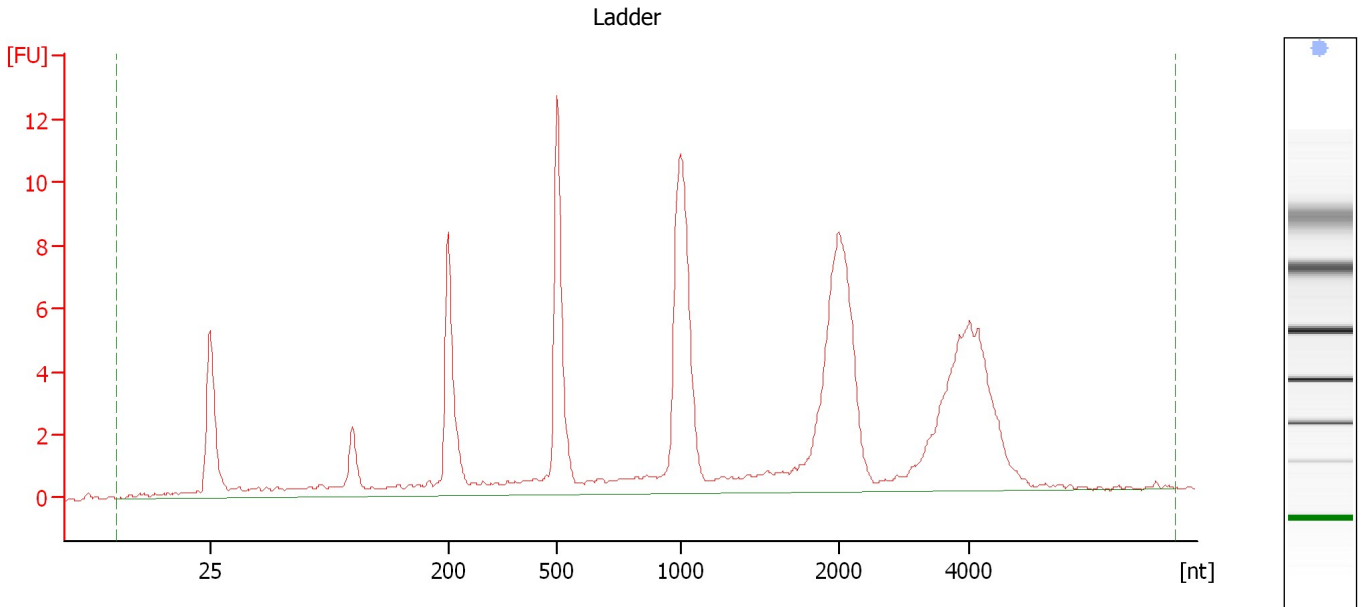
Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
Modified: 3/26/2018 1:34:56 PM

Electropherogram Summary



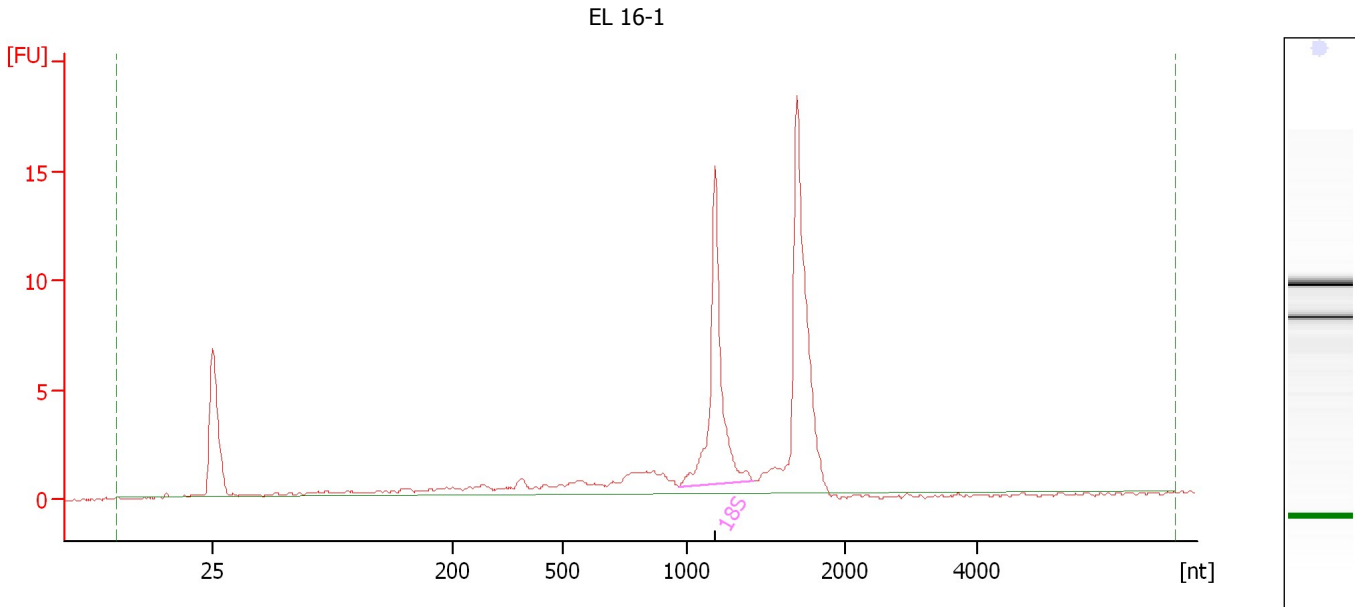
Overall Results for Ladder

| | | | |
|--------------------|-----------|------------------------|---|
| RNA Area: | 120.5 | Result Flagging Color: | |
| RNA Concentration: | 150 ng/μl | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
Modified: 3/26/2018 1:34:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : EL 16-1

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 69.2 | RNA Integrity Number (RIN): | 7 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 86 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN:7 |

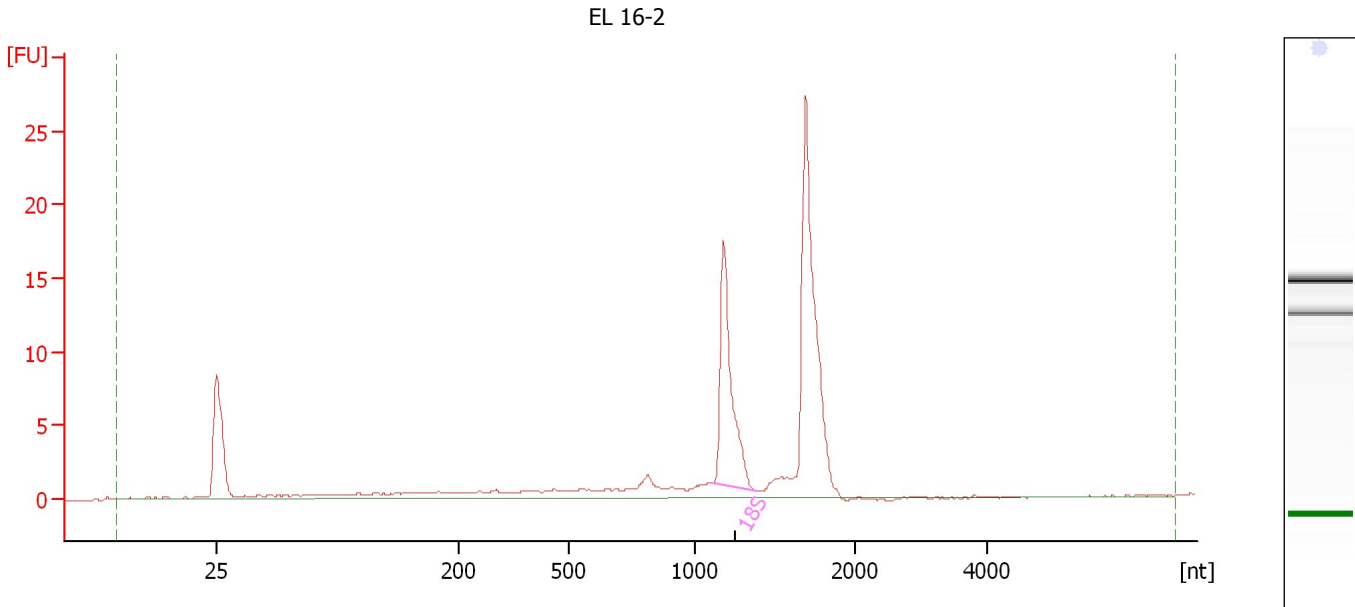
Fragment table for sample 1 : EL 16-1

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 970 | 1,424 | 17.9 | 25.8 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
Modified: 3/26/2018 1:34:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : EL 16-2

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 87.0 | RNA Integrity Number (RIN): | 6.8 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 108 ng/μl | | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Color: | |
| | | Result Flagging Label: | RIN: 6.80 |

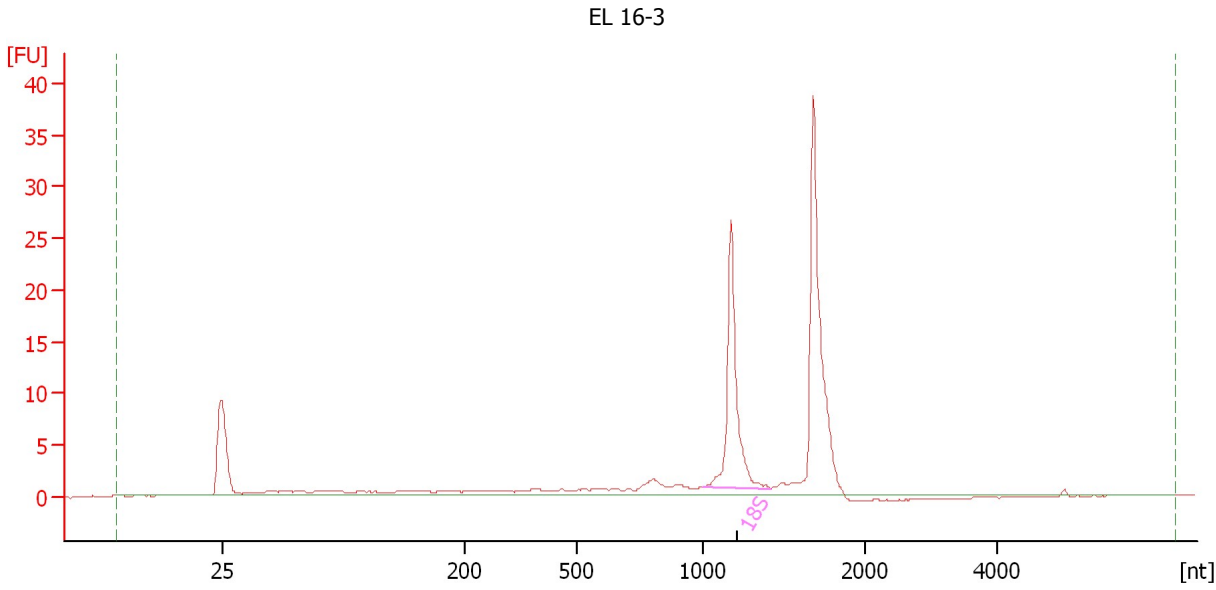
Fragment table for sample 2 : EL 16-2

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,116 | 1,383 | 19.6 | 22.6 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
Modified: 3/26/2018 1:34:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : EL 16-3

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 102.5 | RNA Integrity Number (RIN): | 7 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 128 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN:7 |

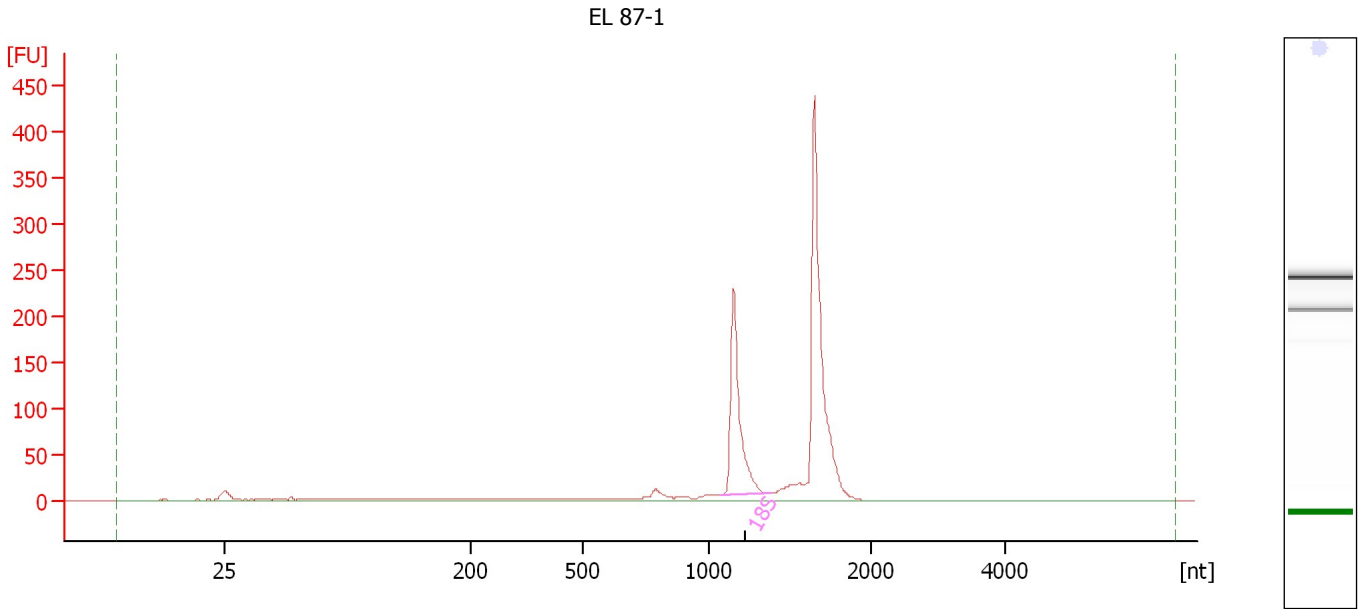
Fragment table for sample 3 : EL 16-3

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 999 | 1,421 | 26.2 | 25.6 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
Modified: 3/26/2018 1:34:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : EL 87-1

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 833.6 | RNA Integrity Number (RIN): | 7.5 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 1,038 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 7.50 |

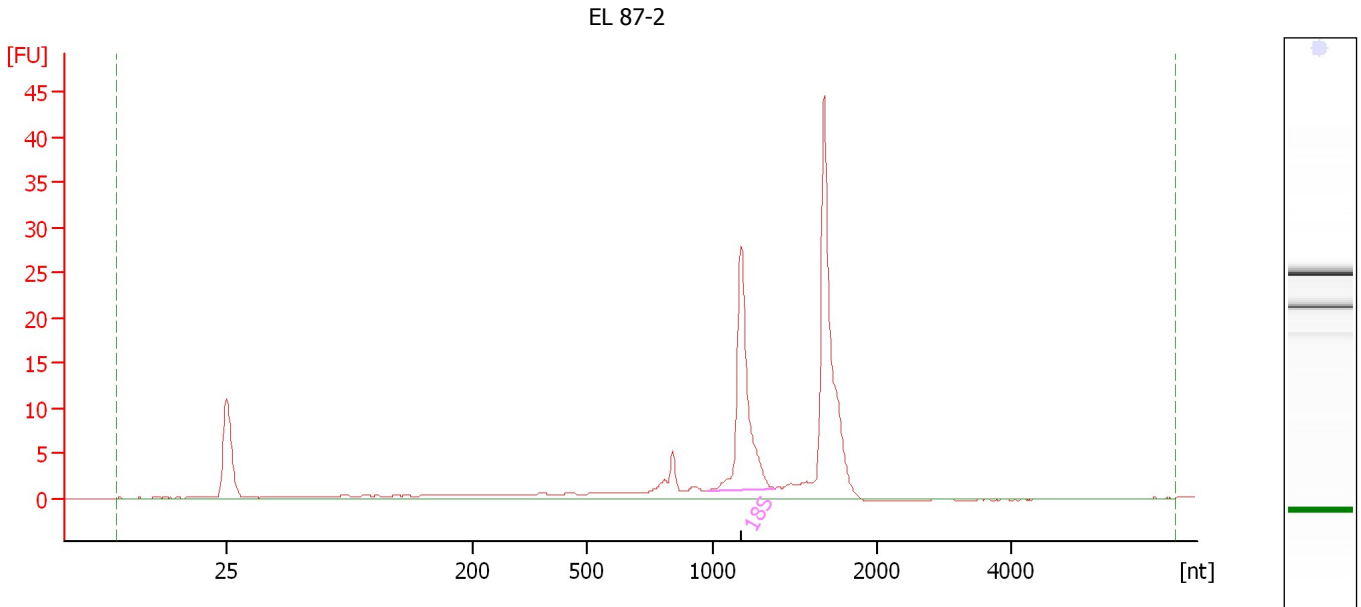
Fragment table for sample 4 : EL 87-1

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,079 | 1,381 | 224.8 | 27.0 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
Modified: 3/26/2018 1:34:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : EL 87-2

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 121.7 | RNA Integrity Number (RIN): | 7.2 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 151 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 7.20 |

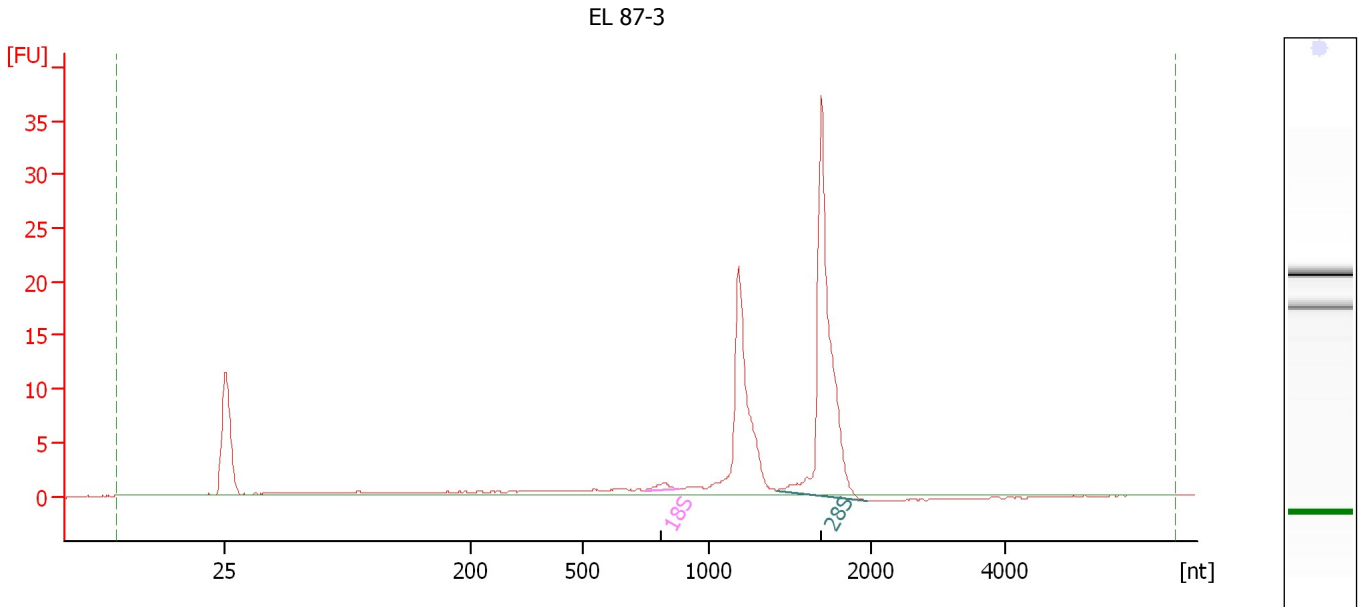
Fragment table for sample 5 : EL 87-2

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 979 | 1,374 | 31.4 | 25.8 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
 Modified: 3/26/2018 1:34:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : EL 87-3

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 99.3 | RNA Integrity Number (RIN): | 7.3 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 124 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 52.1 | Result Flagging Label: | RIN: 7.30 |

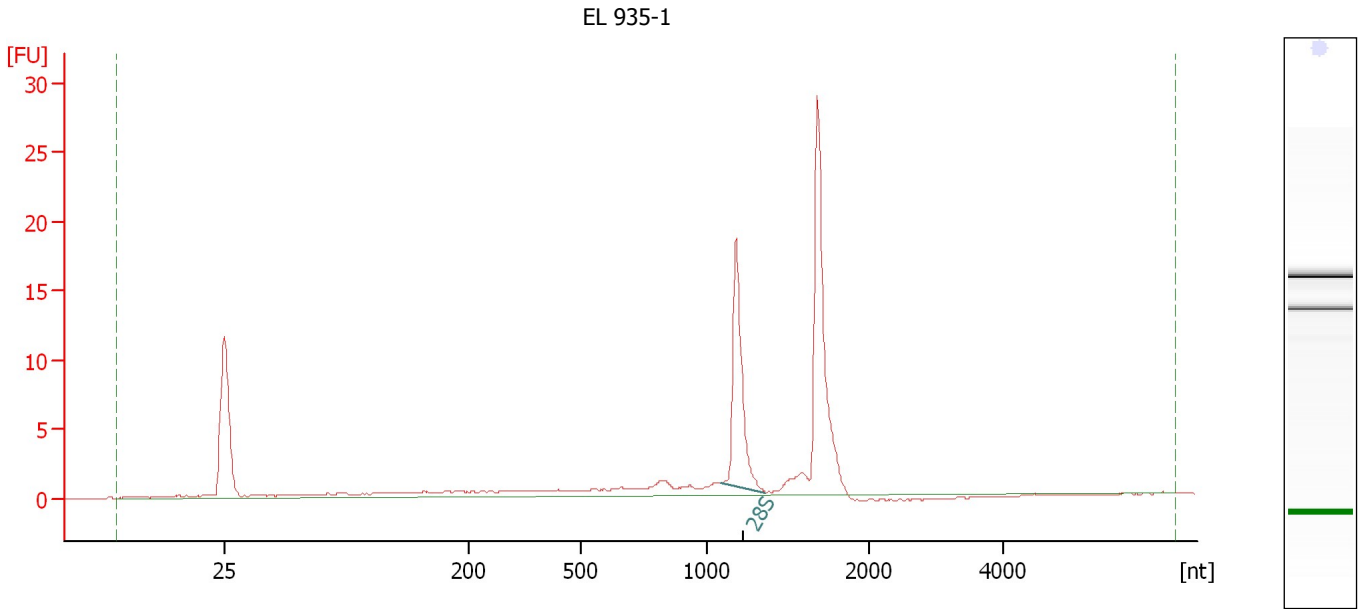
Fragment table for sample 6 : EL 87-3

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 746 | 877 | 0.9 | 0.9 |
| 28S | 1,414 | 1,972 | 45.5 | 45.8 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
Modified: 3/26/2018 1:34:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : EL 935-1

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 76.5 | RNA Integrity Number (RIN): | 4.4 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 95 ng/μl | | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Color: | |
| | | Result Flagging Label: | RIN: 4.40 |

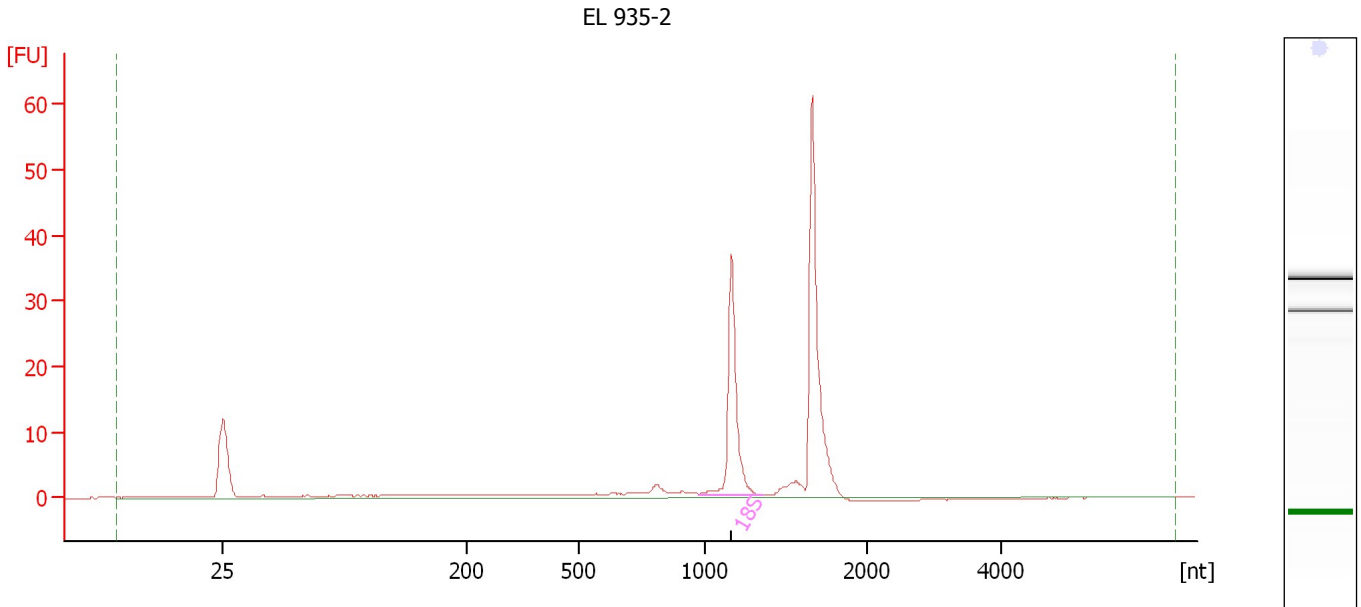
Fragment table for sample 7 : EL 935-1

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 28S | 1,092 | 1,361 | 17.7 | 23.2 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
Modified: 3/26/2018 1:34:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : EL 935-2

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 122.0 | RNA Integrity Number (RIN): | 7.5 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 152 ng/μl | | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Color: | |
| | | Result Flagging Label: | RIN: 7.50 |

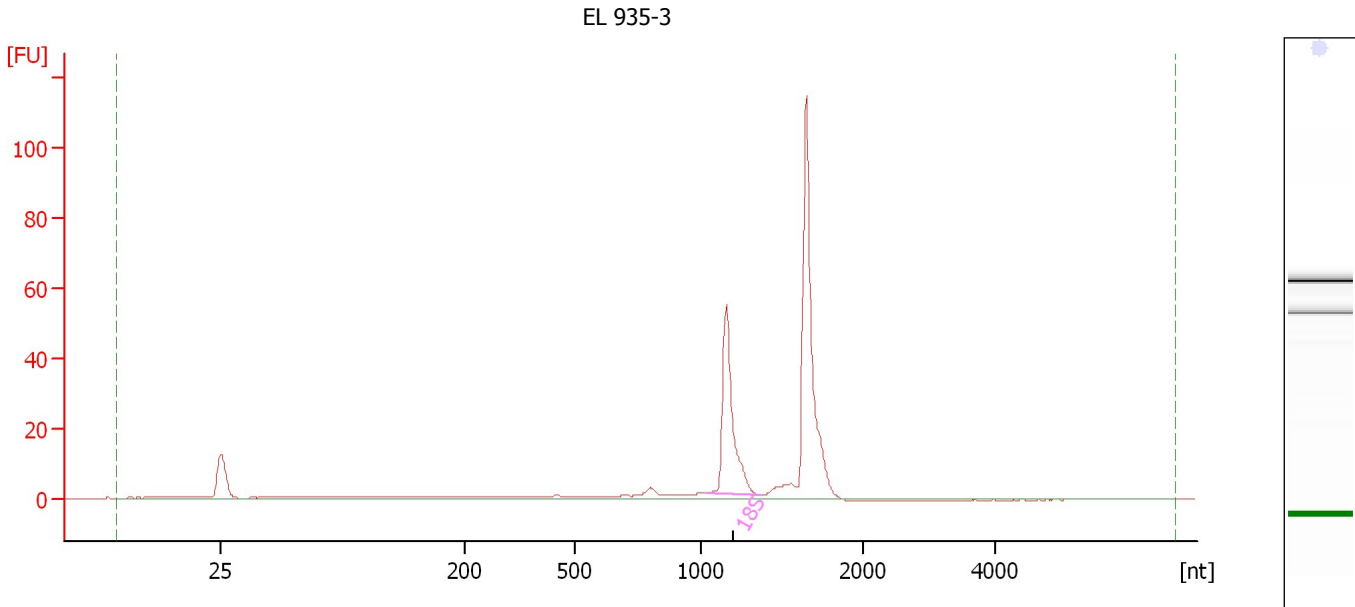
Fragment table for sample 8 : EL 935-2

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 974 | 1,362 | 34.0 | 27.9 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
Modified: 3/26/2018 1:34:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : EL 935-3

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 215.5 | RNA Integrity Number (RIN): | 7.3 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 268 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 7.30 |

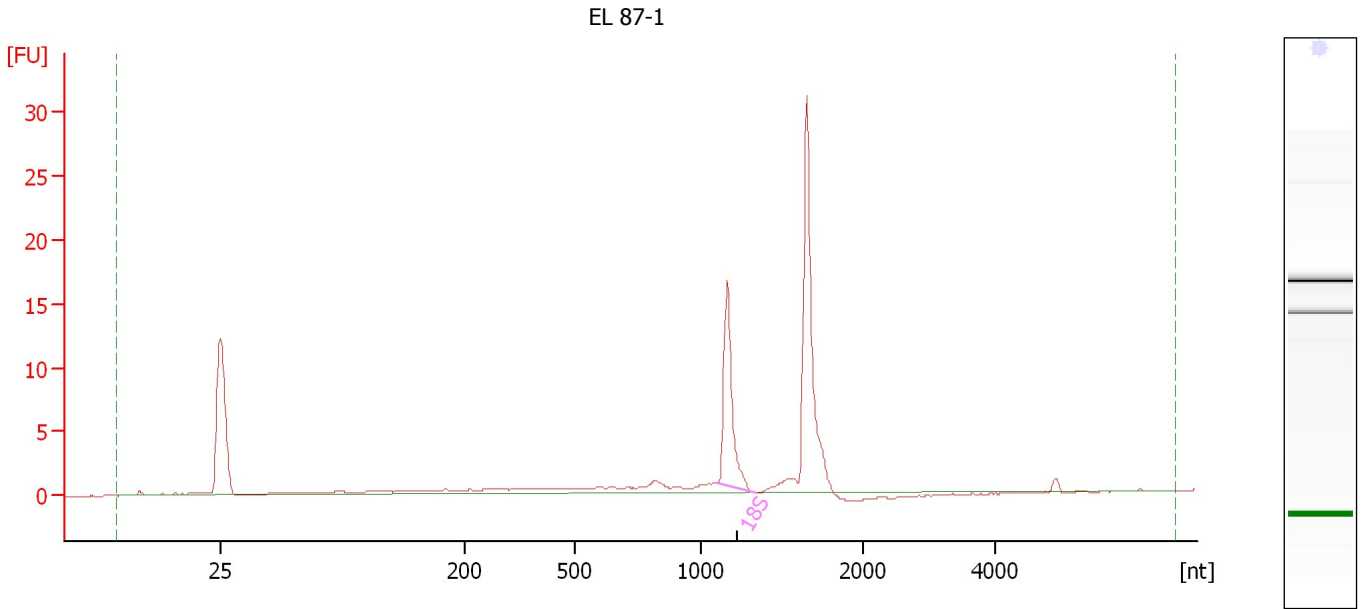
Fragment table for sample 9 : EL 935-3

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,044 | 1,369 | 58.6 | 27.2 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
Modified: 3/26/2018 1:34:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : EL 87-1

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 64.6 | RNA Integrity Number (RIN): | 6.7 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 80 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 6.70 |

Fragment table for sample 10 : EL 87-1

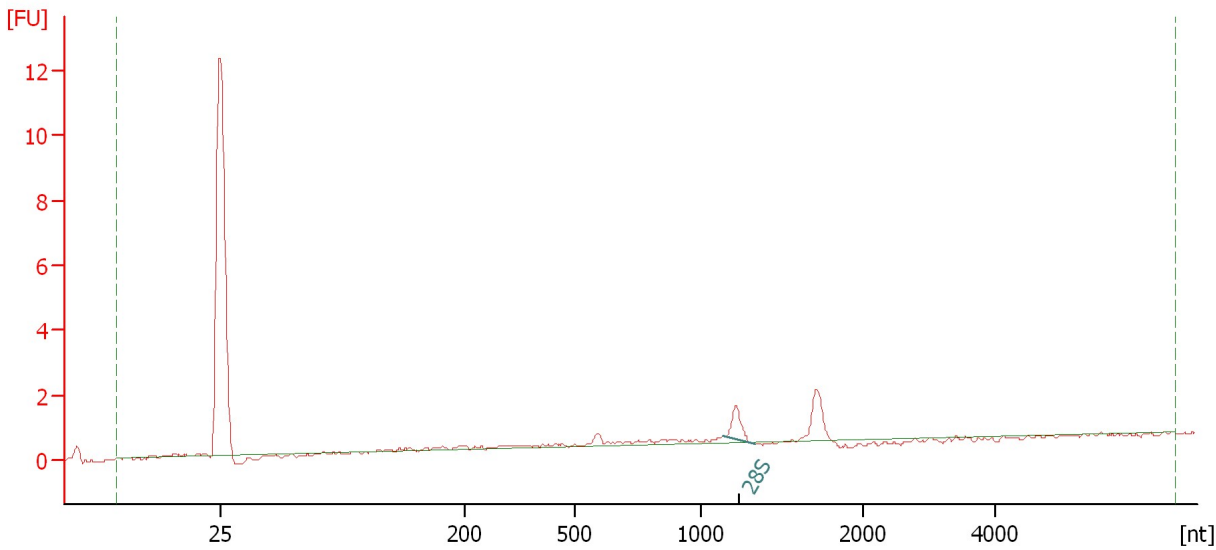
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,104 | 1,342 | 14.4 | 22.2 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
Modified: 3/26/2018 1:34:56 PM

Electropherogram Summary Continued ...

EL 87-2



Overall Results for sample 11 : EL 87-2

| | | | |
|-------------------------|---------|-----------------------------|---|
| RNA Area: | 7.5 | RNA Integrity Number (RIN): | N/A (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 9 ng/μl | | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Color: | |
| | | Result Flagging Label: | RIN N/A |

Fragment table for sample 11 : EL 87-2

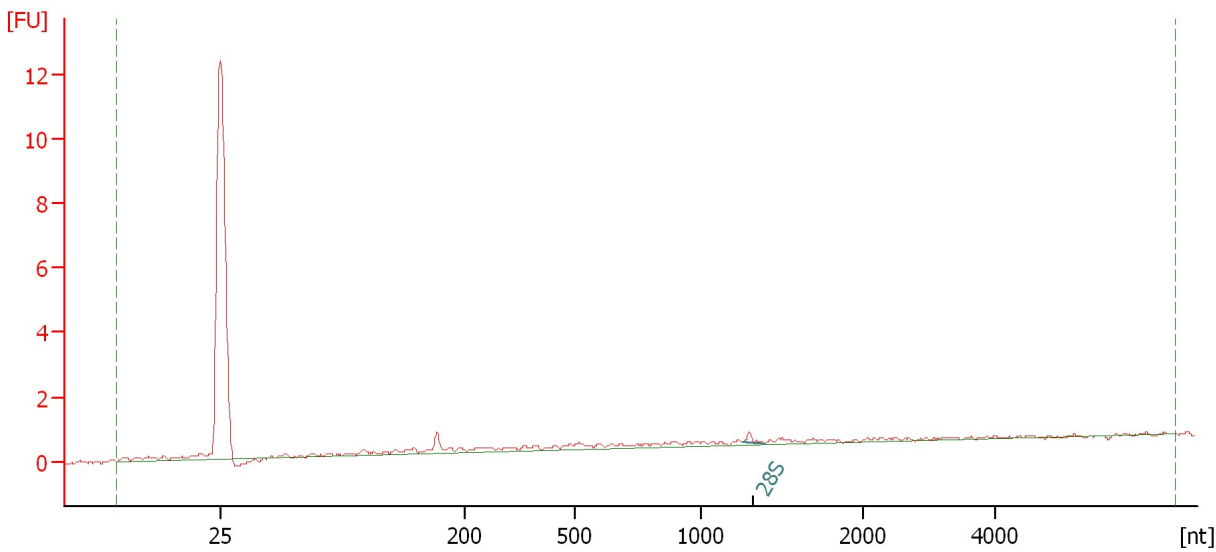
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 28S | 1,144 | 1,336 | 1.1 | 14.5 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
 Modified: 3/26/2018 1:34:56 PM

Electropherogram Summary Continued ...

Sample 12



Overall Results for sample 12 : Sample 12

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 9.0 | RNA Integrity Number (RIN): | 1.4 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 11 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 1.40 |

Fragment table for sample 12 : Sample 12

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 28S | 1,256 | 1,395 | 0.2 | 1.9 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-26\2018-03-26_004.xad

Created: 3/26/2018 12:58:36 PM
Modified: 3/26/2018 1:34:56 PM

Gel Image

