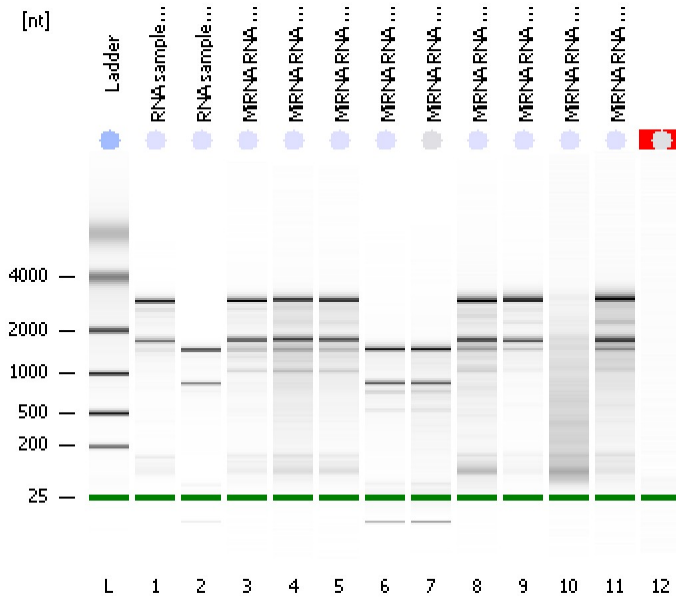


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19_005.xad

Created: 9/19/2013 3:25:13 PM
Modified: 9/19/2013 3:49:05 PM

Electrophoresis File Run Summary



Instrument Information:

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

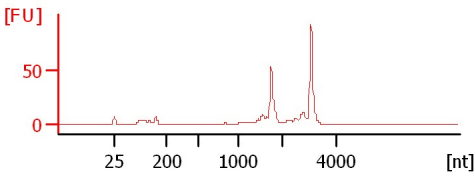
Assay Information:

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

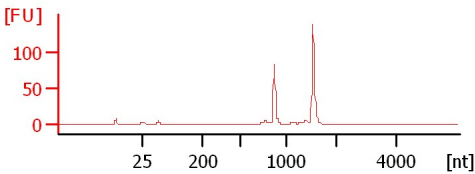
Chip Information:

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

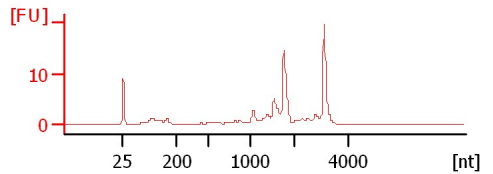
RNA sample 71 second trial Norgen
RIN: 8.40



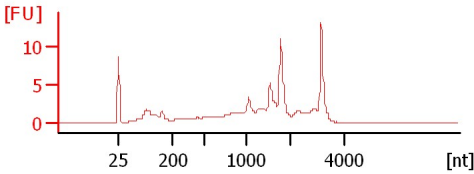
RNA sample 73 second trial Norgen
RIN: 6.10



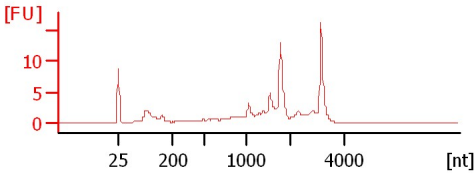
MiRNA RNA pool A
RIN: 7.60



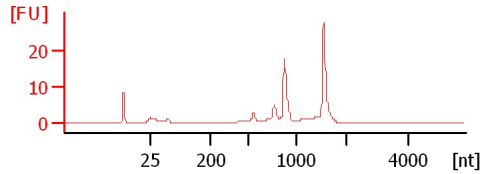
MiRNA RNA pool B
RIN: 6.60



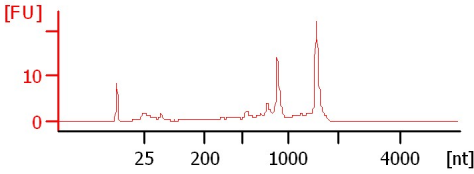
MiRNA RNA pool C
RIN: 7.10



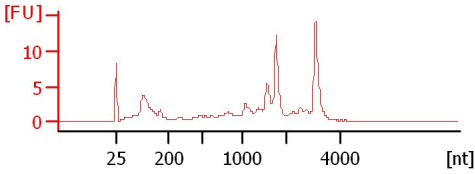
MiRNA RNA pool D
RIN: 6.10



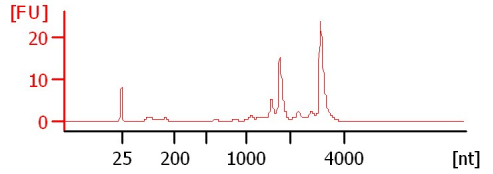
MiRNA RNA pool E
RIN N/A



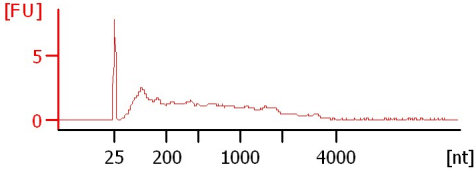
MiRNA RNA pool F
RIN: 7



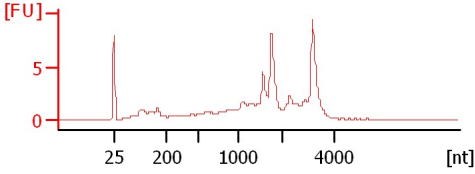
MiRNA RNA pool M
RIN: 8.50



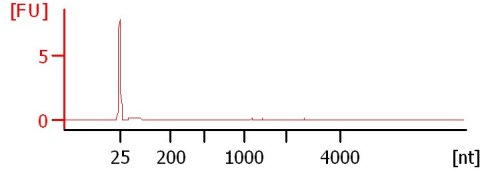
MiRNA RNA pool N
RIN: 2.30



MiRNA RNA pool O
RIN: 6.90



MiRNA RNA pool A
RIN N/A



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19_005.xad

Created: 9/19/2013 3:25:13 PM
Modified: 9/19/2013 3:49:05 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|----------------------------|----------------|--------|-------------------|--------------|
| RNA sample 71 second trial | | ✓ | RIN: 8.40 | |
| RNA sample 73 second trial | | ✓ | RIN: 6.10 | |
| MiRNA RNA pool A | | ✓ | RIN: 7.60 | |
| MiRNA RNA pool B | | ✓ | RIN: 6.60 | |
| MiRNA RNA pool C | | ✓ | RIN: 7.10 | |
| MiRNA RNA pool D | | ✓ | RIN: 6.10 | |
| MiRNA RNA pool E | | ✓ | RIN N/A | |
| MiRNA RNA pool F | | ✓ | RIN:7 | |
| MiRNA RNA pool M | | ✓ | RIN: 8.50 | |
| MiRNA RNA pool N | | ✓ | RIN: 2.30 | |
| MiRNA RNA pool O | | ✓ | RIN: 6.90 | |
| | | ✓ | RIN N/A | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19_005.xad

Created: 9/19/2013 3:25:13 PM
Modified: 9/19/2013 3:49:05 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ 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] : 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

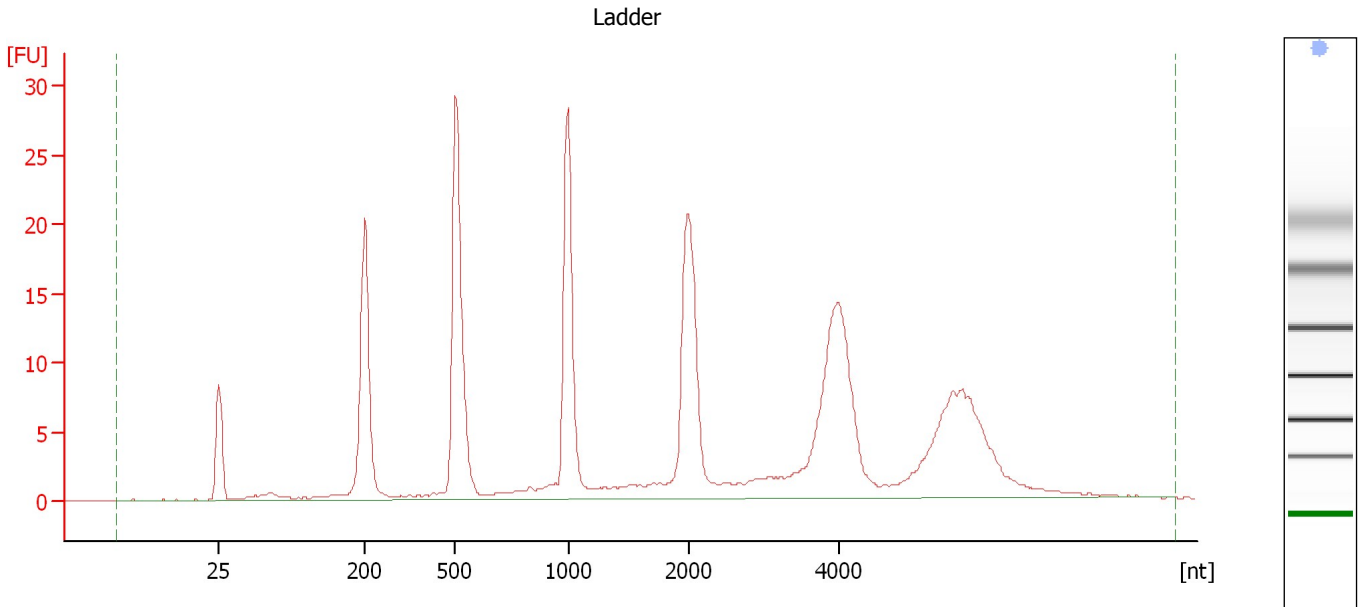
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19_005.xad

Created: 9/19/2013 3:25:13 PM
Modified: 9/19/2013 3:49:05 PM

Electropherogram Summary



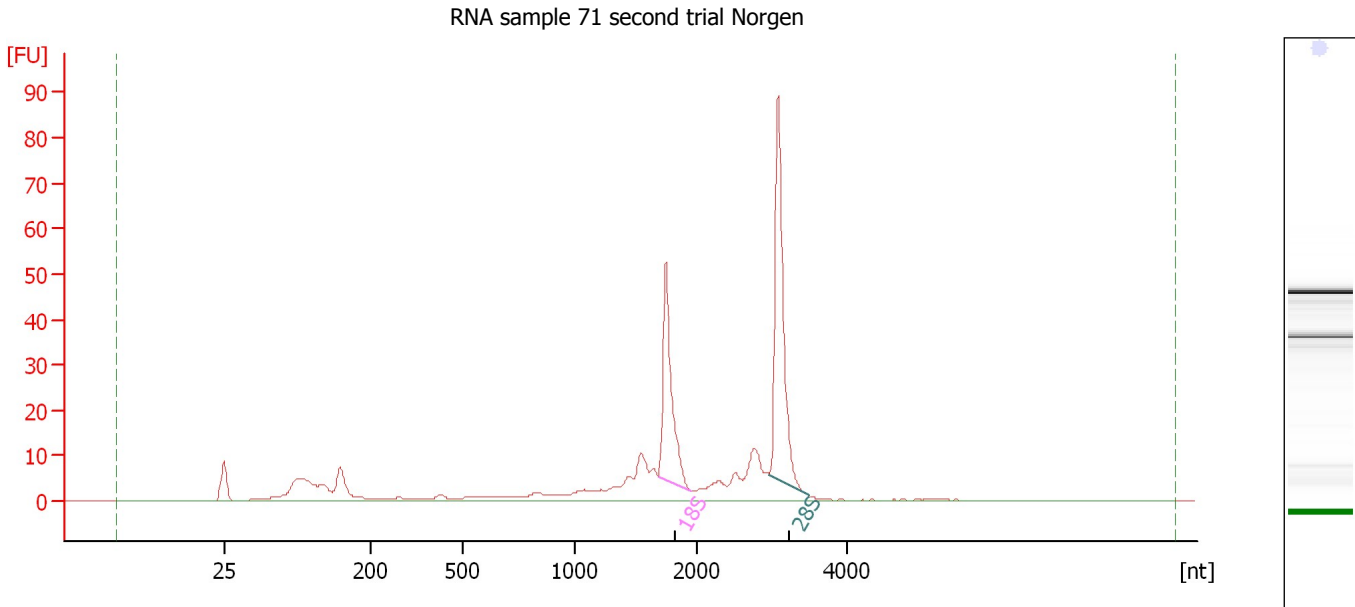
Overall Results for Ladder

| | | | |
|--------------------|-----------|------------------------|---|
| RNA Area: | 261.0 | Result Flagging Color: | |
| RNA Concentration: | 150 ng/μl | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19_005.xad

Created: 9/19/2013 3:25:13 PM
Modified: 9/19/2013 3:49:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : RNA sample 71 second trial Norgen

RNA Area: 304.6 RNA Integrity Number (RIN): 8.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 175 ng/μl
rRNA Ratio [28s / 18s]: 1.6
Result Flagging Color:
Result Flagging Label: RIN: 8.40

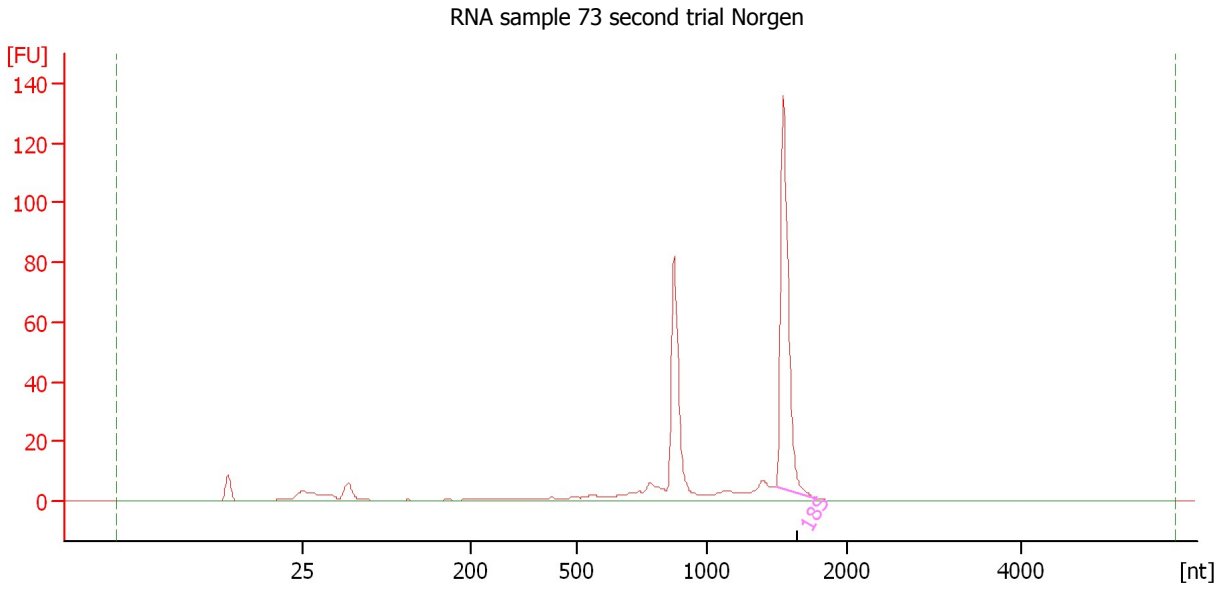
Fragment table for sample 1 : RNA sample 71 second trial Norgen

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,687 | 1,959 | 48.8 | 16.0 |
| 28S | 2,968 | 3,479 | 76.0 | 25.0 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19_005.xad

Created: 9/19/2013 3:25:13 PM
Modified: 9/19/2013 3:49:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : RNA sample 73 second trial Norgen

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 288.8 | RNA Integrity Number (RIN): | 6.1 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 166 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 6.10 |

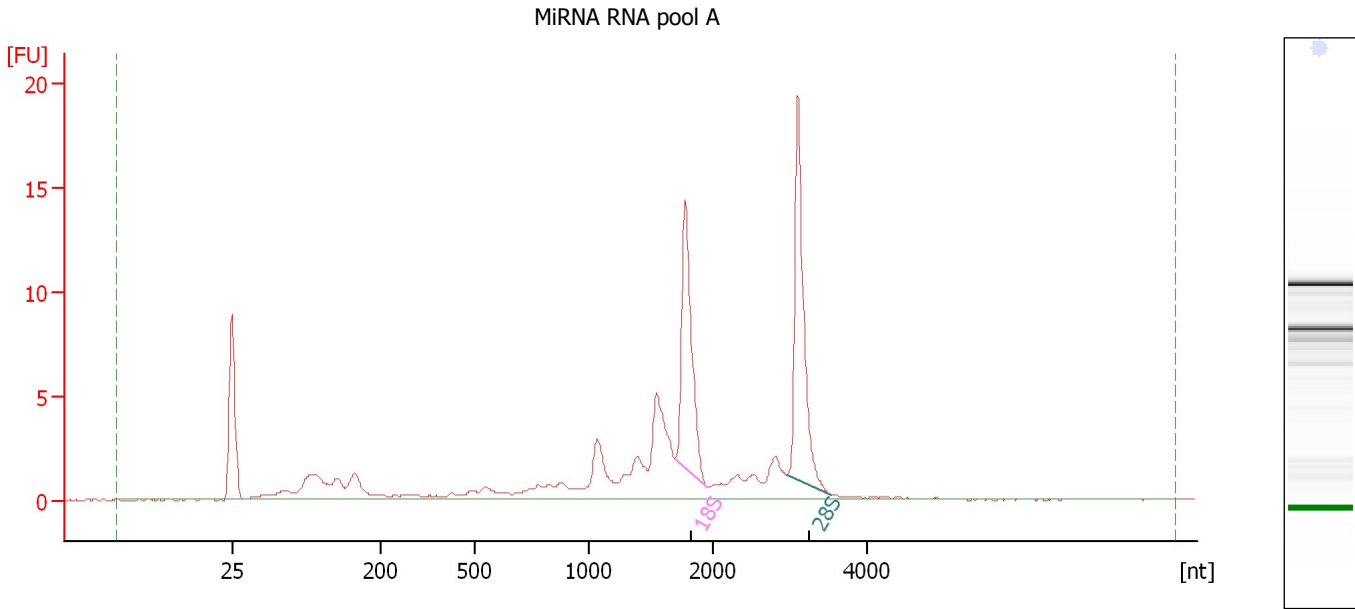
Fragment table for sample 2 : RNA sample 73 second trial Norgen

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,493 | 1,790 | 106.4 | 36.8 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19_005.xad

Created: 9/19/2013 3:25:13 PM
 Modified: 9/19/2013 3:49:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : MiRNA RNA pool A

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 87.1 | RNA Integrity Number (RIN): | 7.6 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 50 ng/μl | | |
| rRNA Ratio [28s / 18s]: | 1.1 | Result Flagging Color: | |
| | | Result Flagging Label: | RIN: 7.60 |

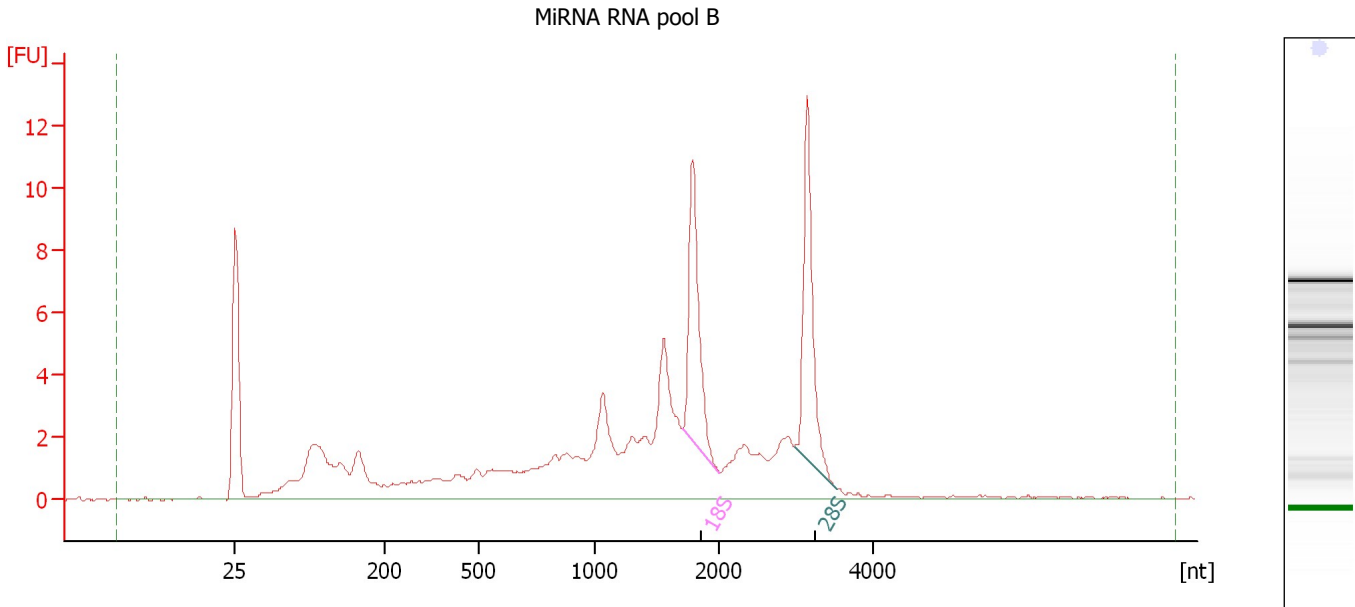
Fragment table for sample 3 : MiRNA RNA pool A

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,690 | 1,949 | 14.9 | 17.1 |
| 28S | 2,964 | 3,535 | 16.8 | 19.3 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19_005.xad

Created: 9/19/2013 3:25:13 PM
 Modified: 9/19/2013 3:49:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MiRNA RNA pool B

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 104.2 | RNA Integrity Number (RIN): | 6.6 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 60 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.1 | Result Flagging Label: | RIN: 6.60 |

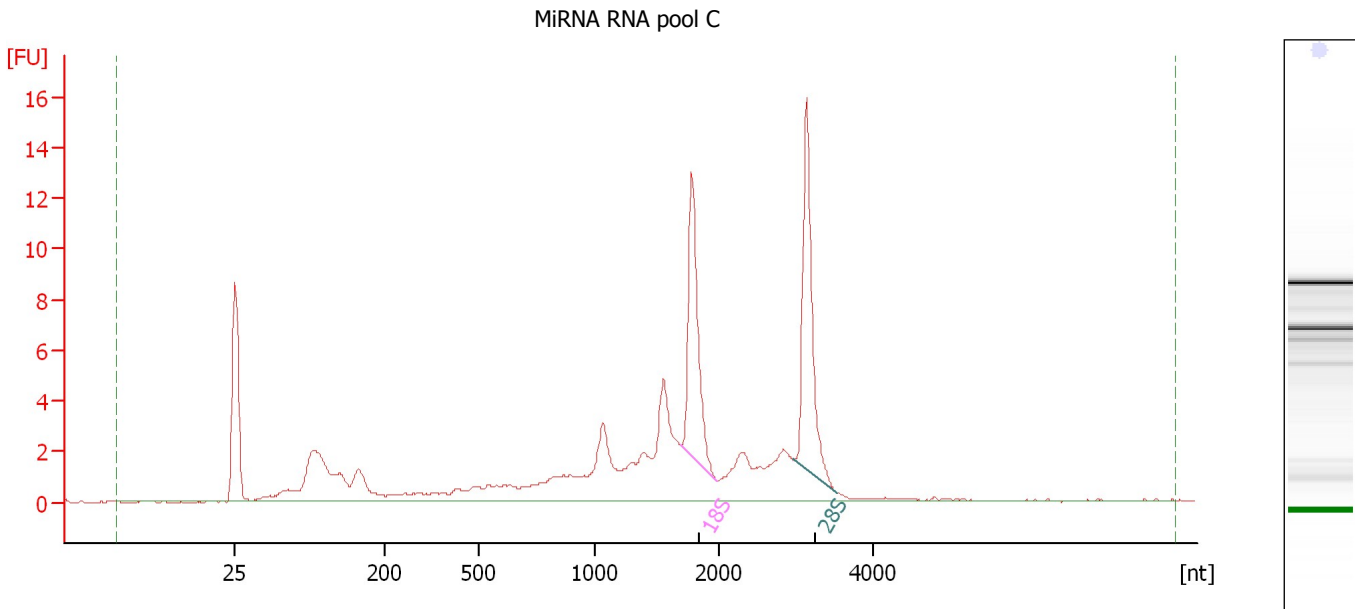
Fragment table for sample 4 : MiRNA RNA pool B

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,703 | 2,006 | 10.0 | 9.6 |
| 28S | 2,976 | 3,516 | 10.8 | 10.3 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19_005.xad

Created: 9/19/2013 3:25:13 PM
 Modified: 9/19/2013 3:49:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : MiRNA RNA pool C

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 97.4 | RNA Integrity Number (RIN): | 7.1 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 56 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.2 | Result Flagging Label: | RIN: 7.10 |

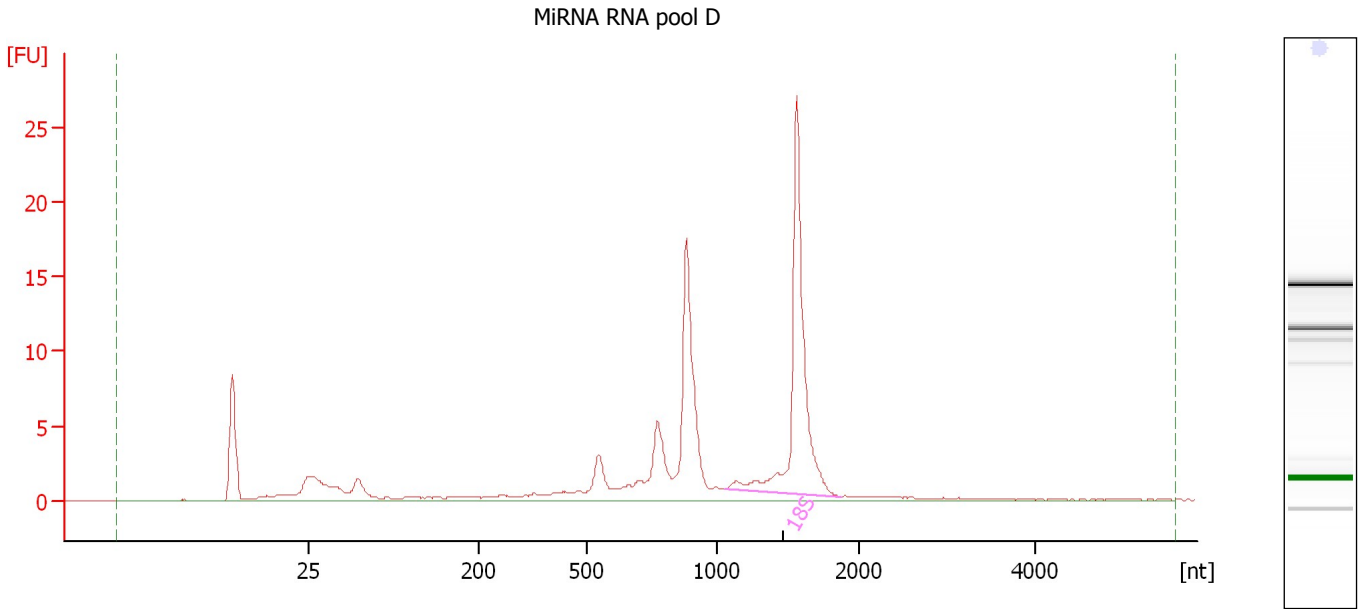
Fragment table for sample 5 : MiRNA RNA pool C

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,694 | 1,978 | 12.0 | 12.3 |
| 28S | 2,948 | 3,516 | 13.9 | 14.2 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19_005.xad

Created: 9/19/2013 3:25:13 PM
Modified: 9/19/2013 3:49:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : MiRNA RNA pool D

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 107.1 | RNA Integrity Number (RIN): | 6.1 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 62 ng/μl | | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Color: | |
| | | Result Flagging Label: | RIN: 6.10 |

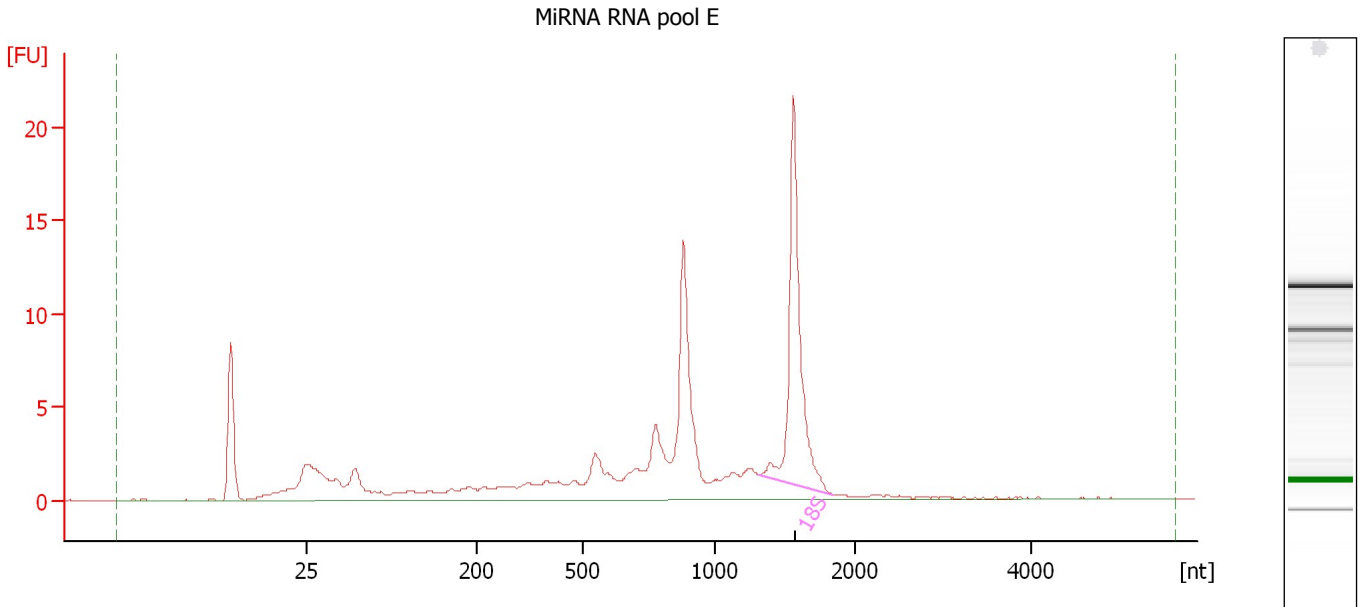
Fragment table for sample 6 : MiRNA RNA pool D

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,050 | 1,865 | 32.0 | 29.9 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19_005.xad

Created: 9/19/2013 3:25:13 PM
Modified: 9/19/2013 3:49:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : MiRNA RNA pool E

RNA Area: 109.9 Result Flagging Color:
RNA Concentration: 63 ng/μl Result Flagging Label: RIN N/A
rRNA Ratio [28s / 18s]: 0.0

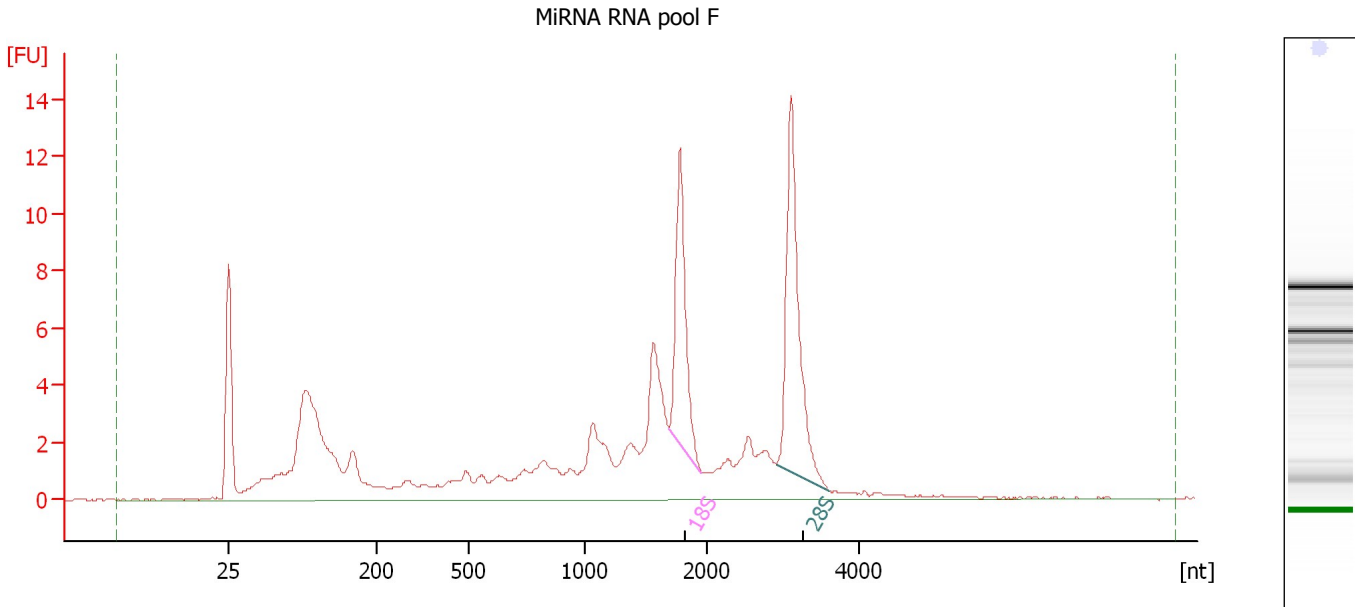
Fragment table for sample 7 : MiRNA RNA pool E

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,310 | 1,840 | 23.9 | 21.8 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19_005.xad

Created: 9/19/2013 3:25:13 PM
 Modified: 9/19/2013 3:49:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : MiRNA RNA pool F

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 122.1 | RNA Integrity Number (RIN): | 7 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 70 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.5 | Result Flagging Label: | RIN:7 |

Fragment table for sample 8 : MiRNA RNA pool F

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,694 | 1,955 | 11.5 | 9.4 |
| 28S | 2,909 | 3,611 | 16.8 | 13.7 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19_005.xad

Created: 9/19/2013 3:25:13 PM
Modified: 9/19/2013 3:49:05 PM

Gel Image

