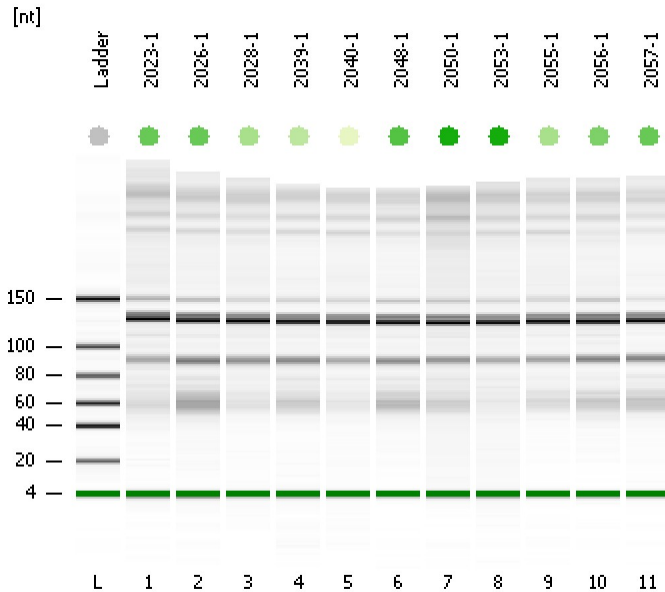


Assay Class: Small RNA  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
Modified: 6/15/2017 9:16:25 AM

### 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\Small RNA Series II.xsy

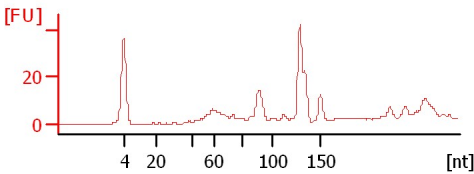
Assay Class: Small RNA  
Version: 1.2  
Assay Comments: Small RNA Analysis 6 - 150 nucleotides

© Copyright 2007 - 2009 Agilent Technologies, Inc.

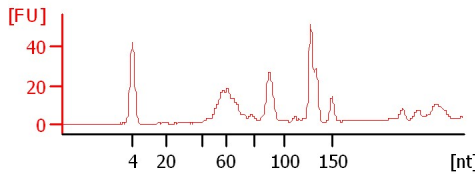
#### Chip Information:

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

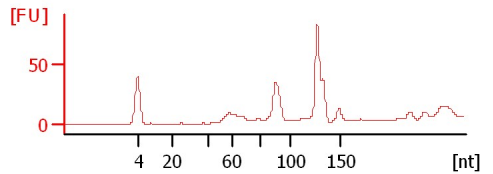
**2023-1**  
8 % miRNA; Concentration: 49.70 pg/µl



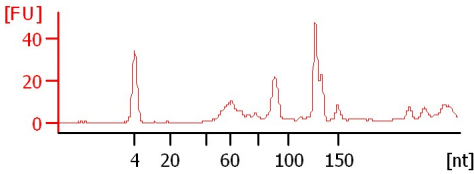
**2026-1**  
8 % miRNA; Concentration: 78.40 pg/µl



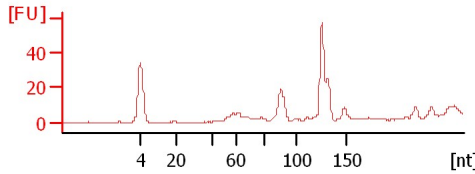
**2028-1**  
5 % miRNA; Concentration: 59.60 pg/µl



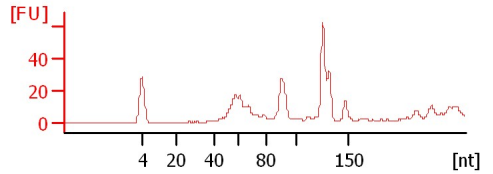
**2039-1**  
4 % miRNA; Concentration: 36.10 pg/µl



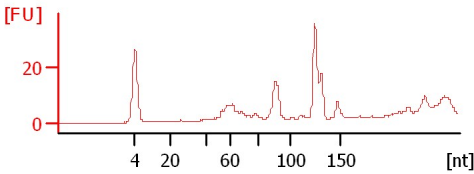
**2040-1**  
2 % miRNA; Concentration: 16.90 pg/µl



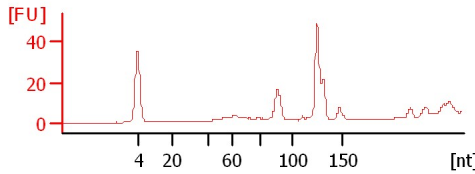
**2048-1**  
9 % miRNA; Concentration: 128.20 pg/µl



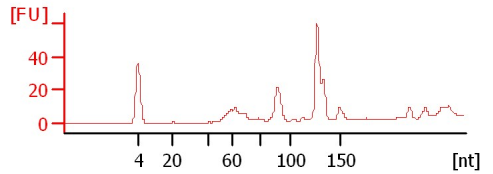
**2050-1**  
18 % miRNA; Concentration: 179 pg/µl



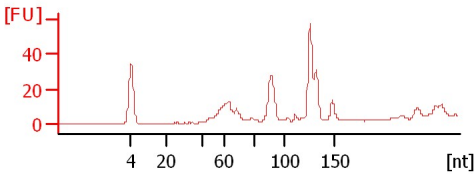
**2053-1**  
16 % miRNA; Concentration: 124.90 pg/µl



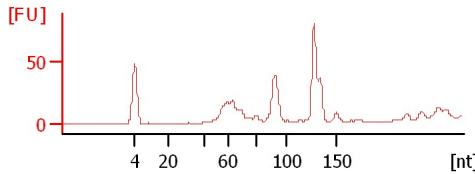
**2055-1**  
5 % miRNA; Concentration: 40 pg/µl



**2056-1**  
7 % miRNA; Concentration: 74.30 pg/µl















**2057-1**  
8 % miRNA; Concentration: 82.60 pg/µl



Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
 Modified: 6/15/2017 9:16:25 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
2023-1		✓	8 % miRNA; Concentration: 49.70 pg/μl	
2026-1		✓	8 % miRNA; Concentration: 78.40 pg/μl	
2028-1		✓	5 % miRNA; Concentration: 59.60 pg/μl	
2039-1		✓	4 % miRNA; Concentration: 36.10 pg/μl	
2040-1		✓	2 % miRNA; Concentration: 16.90 pg/μl	
2048-1		✓	9 % miRNA; Concentration: 128.20 pg/μl	
2050-1		✓	18 % miRNA; Concentration: 179 pg/μl	
2053-1		✓	16 % miRNA; Concentration: 124.90 pg/μl	
2055-1		✓	5 % miRNA; Concentration: 40 pg/μl	
2056-1		✓	7 % miRNA; Concentration: 74.30 pg/μl	
2057-1		✓	8 % miRNA; Concentration: 82.60 pg/μl	
Ladder		✓	Number of Peaks: 6	

Chip Lot #

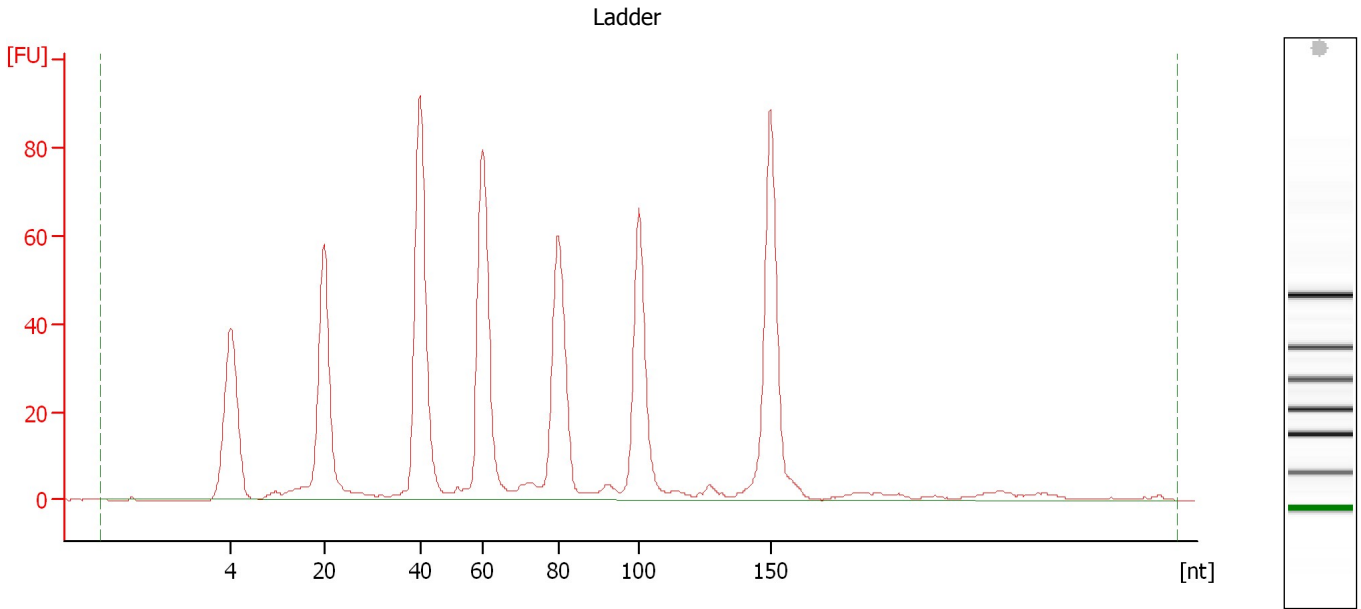
Reagent Kit Lot #

Chip Comments :

Assay Class: Small RNA  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
Modified: 6/15/2017 9:16:25 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Result Flagging Color:

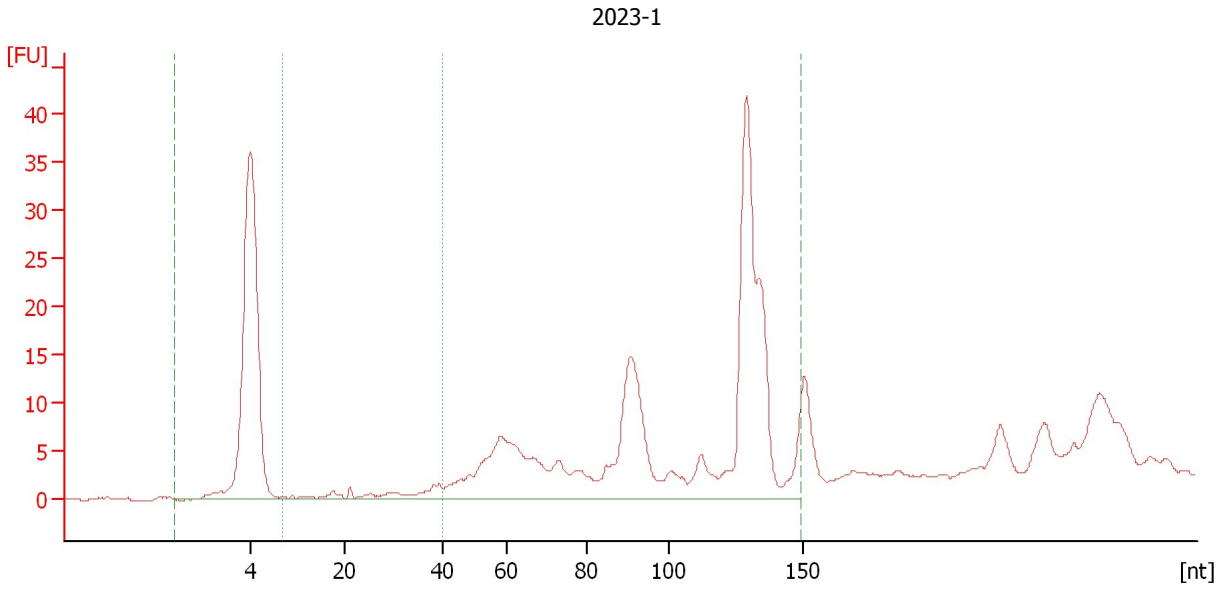
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
 Modified: 6/15/2017 9:16:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 2023-1**

Small RNA Concentration [pg/μl]:	657.8	Result Flagging Color:	<span style="background-color: #008000; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	49.7	Result Flagging Label:	8 % miRNA; Concentration: 49.70 pg/μl
miRNA / Small RNA Ratio [%]:	8		

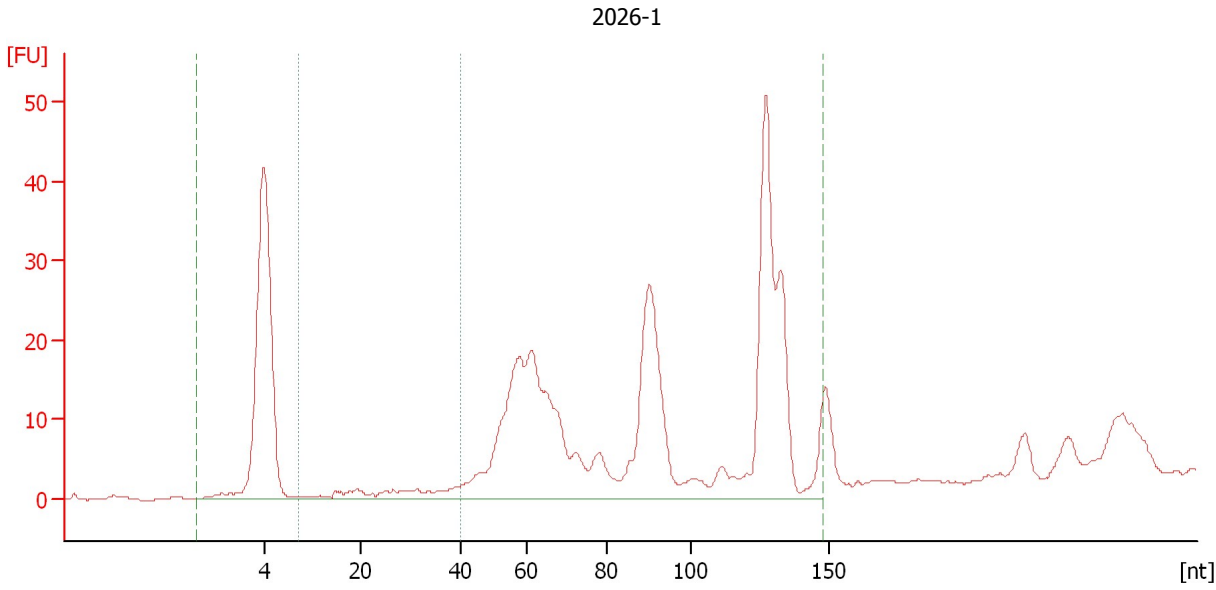
**Region table for sample 1 : 2023-1**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	149	80	62.0	657.8	100	<span style="background-color: #800000; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	29	30.4	49.7	8	<span style="background-color: #008000; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
 Modified: 6/15/2017 9:16:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 2026-1**

Small RNA Concentration [pg/μl]:	937.2	Result Flagging Color:	<span style="background-color: #008000; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	78.4	Result Flagging Label:	8 % miRNA; Concentration: 78.40 pg/μl
miRNA / Small RNA Ratio [%]:	8		

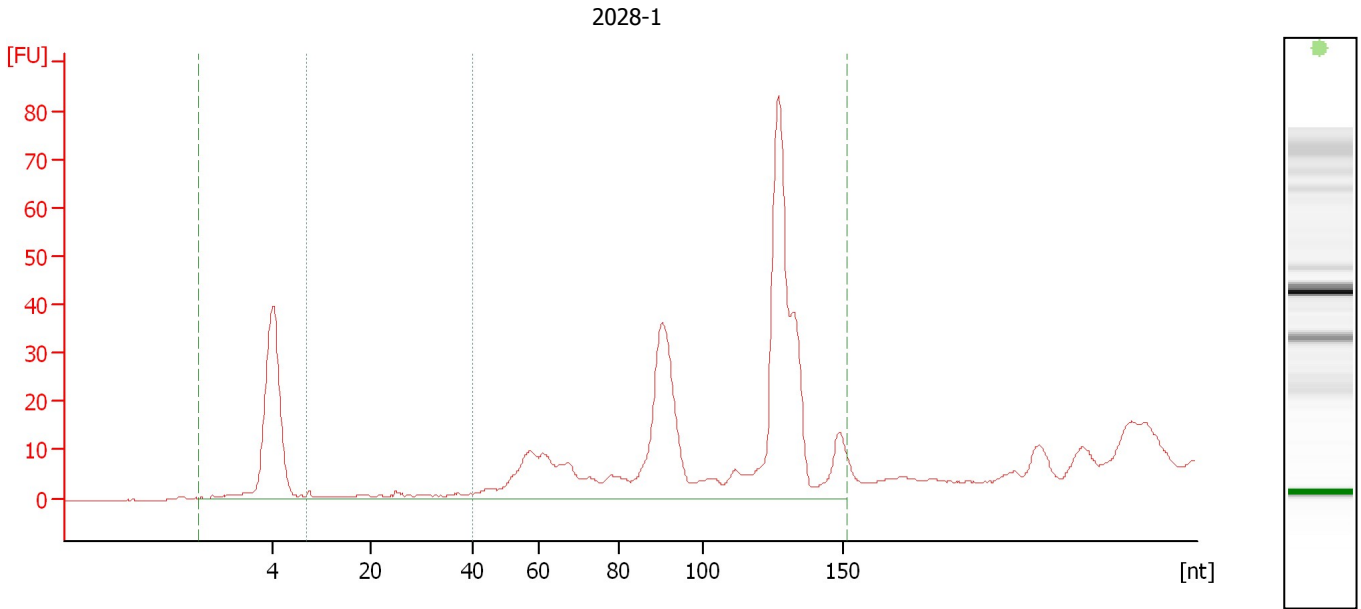
**Region table for sample 2 : 2026-1**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	148	77	58.0	937.2	100	<span style="background-color: #800000; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	27	30.4	78.4	8	<span style="background-color: #008000; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
 Modified: 6/15/2017 9:16:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 2028-1**

Small RNA Concentration [pg/μl]:	1,106.6	Result Flagging Color:	<span style="background-color: #90EE90; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
miRNA Concentration [pg/μl]:	59.6	Result Flagging Label:	5 % miRNA; Concentration: 59.60 pg/μl
miRNA / Small RNA Ratio [%]:	5		

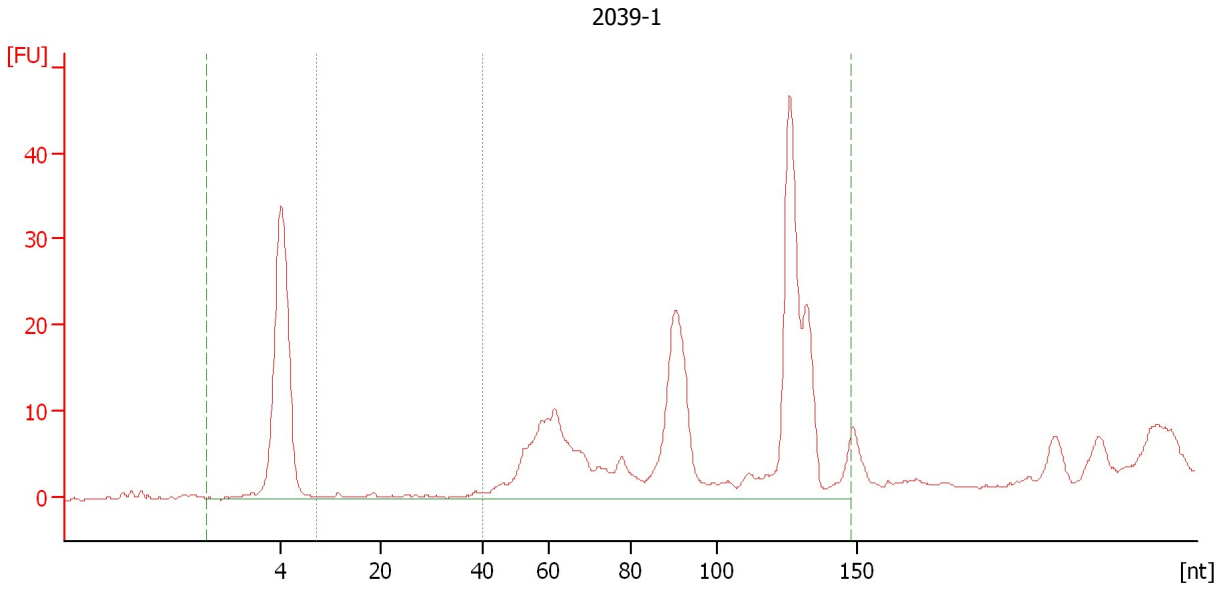
**Region table for sample 3 : 2028-1**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	151	90	50.0	1,106.6	100	<span style="background-color: #800000; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>
miRNA	10	40	26	35.2	59.6	5	<span style="background-color: #008000; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
 Modified: 6/15/2017 9:16:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 2039-1**

Small RNA Concentration [pg/μl]:	814.7	Result Flagging Color:	<span style="background-color: #90EE90; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
miRNA Concentration [pg/μl]:	36.1	Result Flagging Label:	4 % miRNA; Concentration: 36.10 pg/μl
miRNA / Small RNA Ratio [%]:	4		

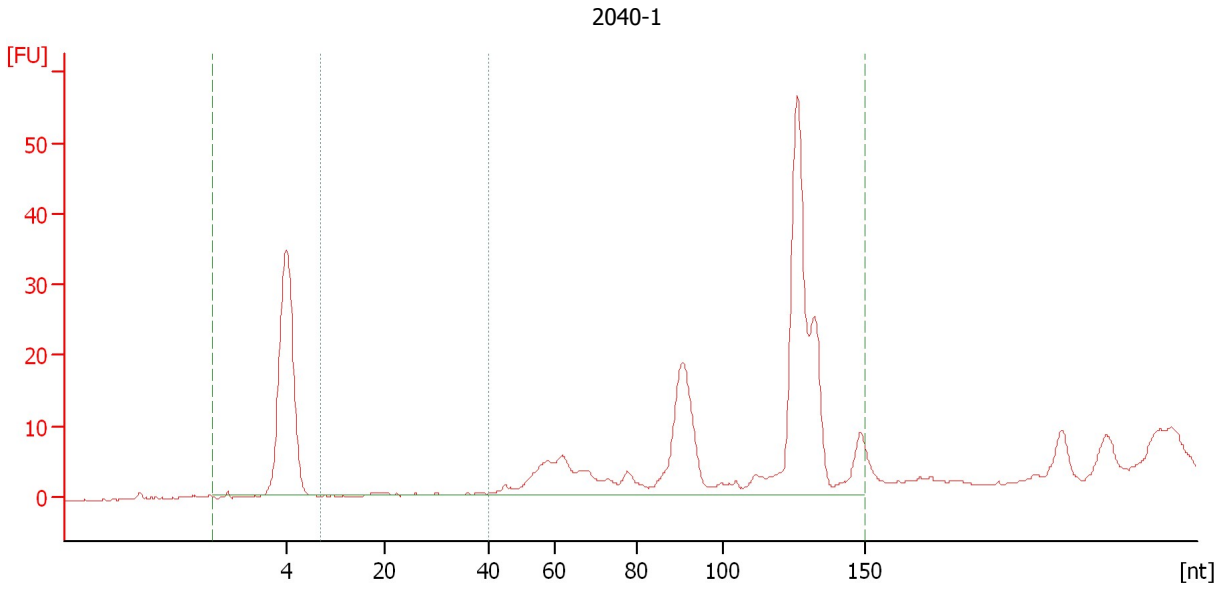
**Region table for sample 4 : 2039-1**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	148	81	57.0	814.7	100	<span style="background-color: #800000; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>
miRNA	10	40	25	36.5	36.1	4	<span style="background-color: #008000; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
 Modified: 6/15/2017 9:16:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 2040-1**

Small RNA Concentration [pg/μl]:	693.0	Result Flagging Color:	<span style="background-color: #d4edda; border: 1px solid #c3e6cb; padding: 2px;"> </span>
miRNA Concentration [pg/μl]:	16.9	Result Flagging Label:	2 % miRNA; Concentration: 16.90 pg/μl
miRNA / Small RNA Ratio [%]:	2		

**Region table for sample 5 : 2040-1**

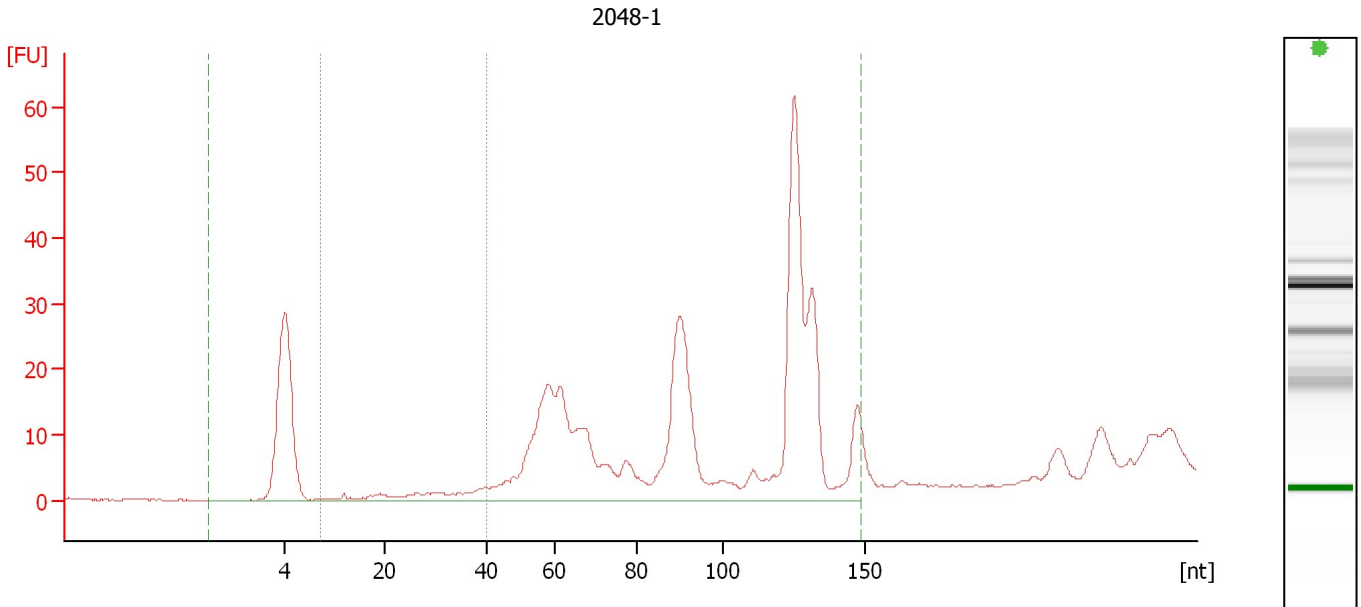
Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	149	87	55.5	693.0	100	<span style="background-color: #d4edda; border: 1px solid #c3e6cb; padding: 2px;"> </span>
miRNA	10	40	28	28.1	16.9	2	<span style="background-color: #d4edda; border: 1px solid #c3e6cb; padding: 2px;"> </span>



Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
 Modified: 6/15/2017 9:16:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 2048-1**

Small RNA Concentration [pg/μl]: 1,497.3  
 miRNA Concentration [pg/μl]: 128.2  
 miRNA / Small RNA Ratio [%]: 9

Result Flagging Color:   
 Result Flagging Label: 9 % miRNA;  
 Concentration: 128.20  
 pg/μl

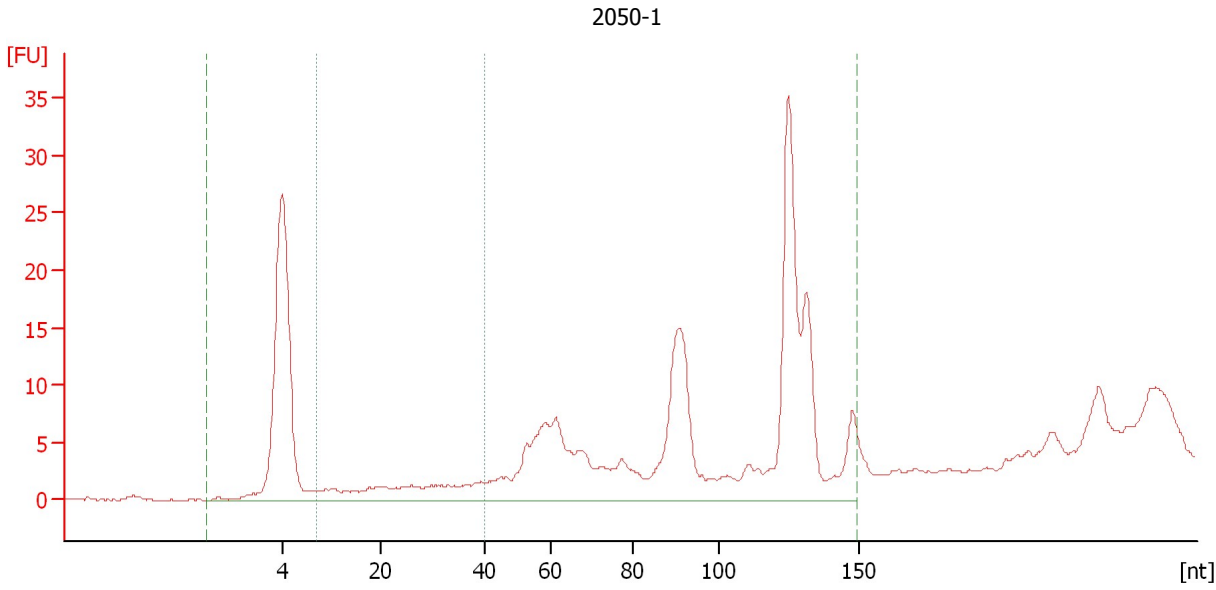
**Region table for sample 6 : 2048-1**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	149	85	49.6	1,497.3	100	<span style="background-color: maroon; display: inline-block; width: 15px; height: 10px;"></span>
miRNA	10	40	28	30.3	128.2	9	<span style="background-color: green; display: inline-block; width: 15px; height: 10px;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
 Modified: 6/15/2017 9:16:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 2050-1**

Small RNA Concentration [pg/μl]:	989.9	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	179.0	Result Flagging Label:	18 % miRNA; Concentration: 179 pg/μl
miRNA / Small RNA Ratio [%]:	18		

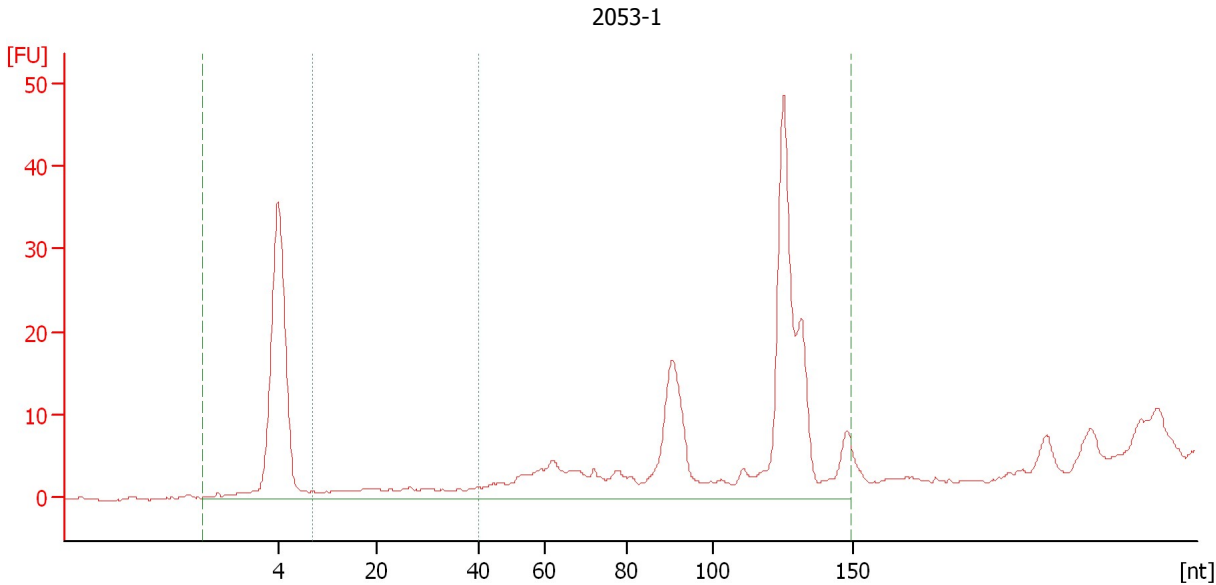
**Region table for sample 7 : 2050-1**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	149	79	59.9	989.9	100	<span style="background-color: purple; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	26	34.8	179.0	18	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
 Modified: 6/15/2017 9:16:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 2053-1**

Small RNA Concentration [pg/μl]:	779.8	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	124.9	Result Flagging Label:	16 % miRNA; Concentration: 124.90 pg/μl
miRNA / Small RNA Ratio [%]:	16		

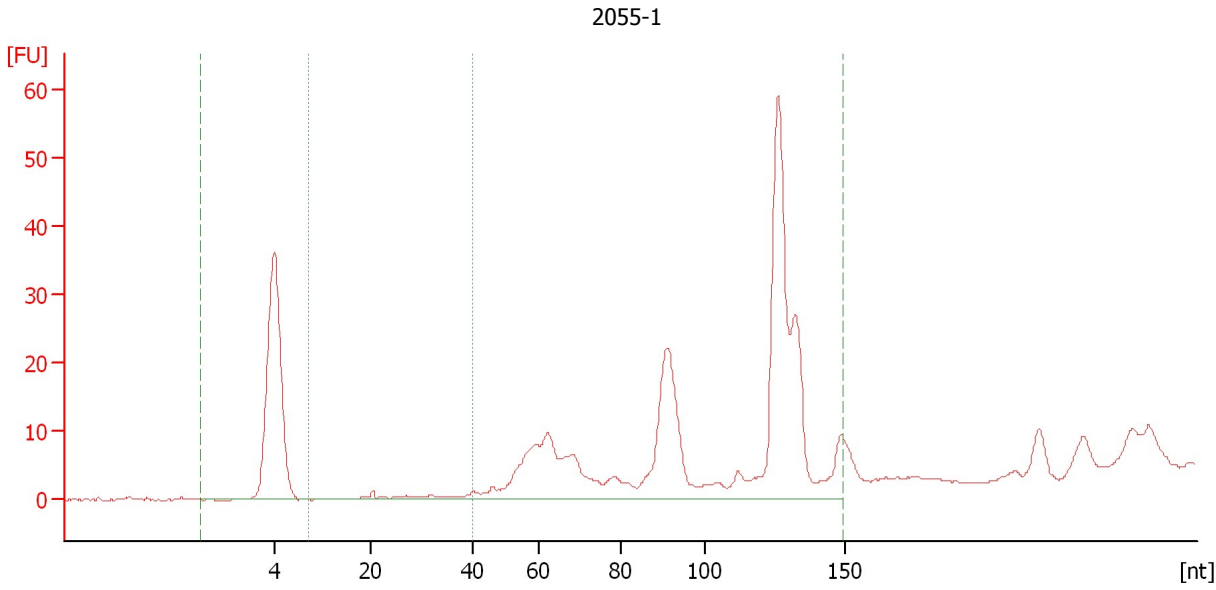
**Region table for sample 8 : 2053-1**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	150	81	62.1	779.8	100	<span style="background-color: purple; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	25	35.0	124.9	16	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
 Modified: 6/15/2017 9:16:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 2055-1**

Small RNA Concentration [pg/μl]:	849.4	Result Flagging Color:	<span style="background-color: #90EE90; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
miRNA Concentration [pg/μl]:	40.0	Result Flagging Label:	5 % miRNA; Concentration: 40 pg/μl
miRNA / Small RNA Ratio [%]:	5		

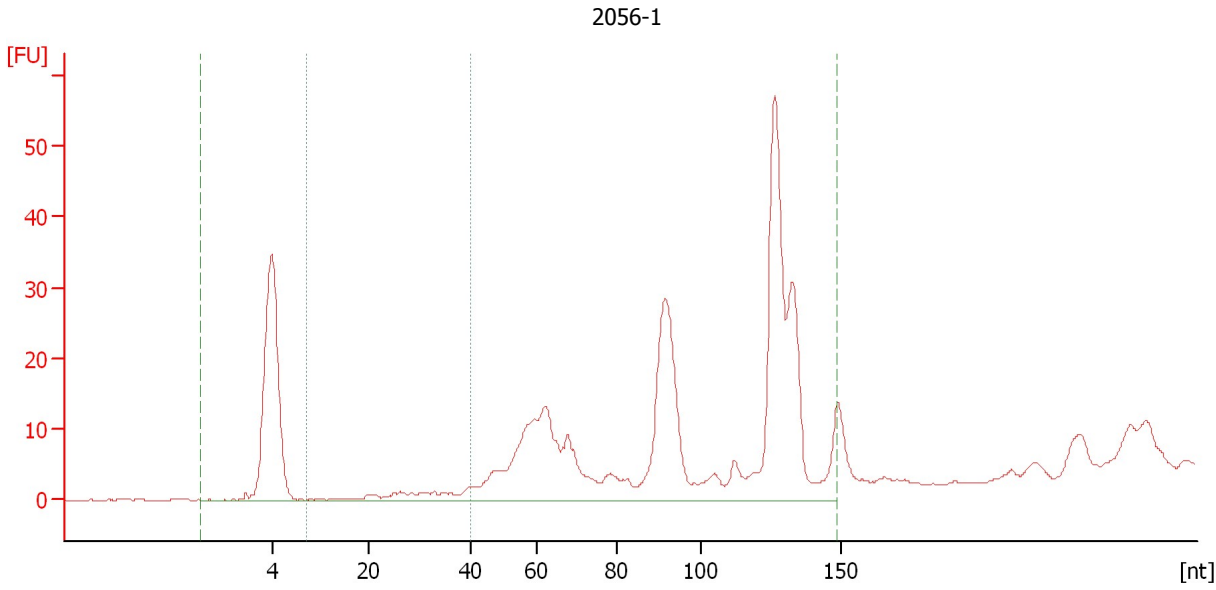
**Region table for sample 9 : 2055-1**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	150	86	54.0	849.4	100	<span style="background-color: #800000; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span>
miRNA	10	40	28	27.2	40.0	5	<span style="background-color: #008000; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
 Modified: 6/15/2017 9:16:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 2056-1**

Small RNA Concentration [pg/μl]:	1,092.6	Result Flagging Color:	<span style="background-color: #90EE90; display: inline-block; width: 20px; height: 10px;"></span>
miRNA Concentration [pg/μl]:	74.3	Result Flagging Label:	7 % miRNA; Concentration: 74.30 pg/μl
miRNA / Small RNA Ratio [%]:	7		

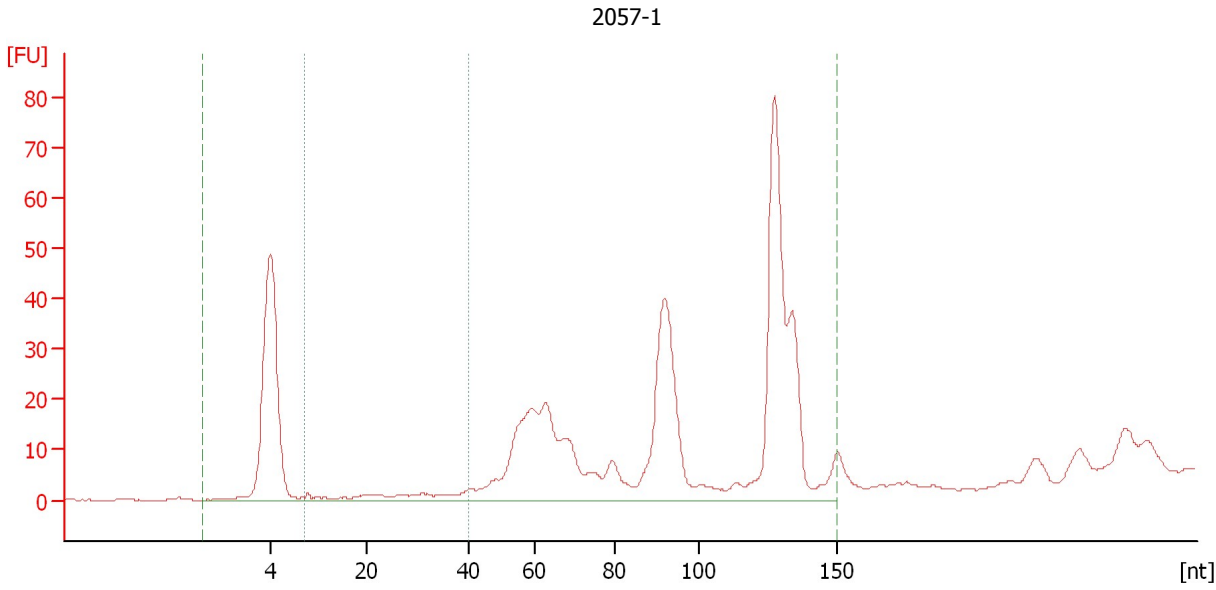
**Region table for sample 10 : 2056-1**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	149	85	52.3	1,092.6	100	<span style="background-color: #800080; display: inline-block; width: 15px; height: 10px;"></span>
miRNA	10	40	29	24.6	74.3	7	<span style="background-color: #008080; display: inline-block; width: 15px; height: 10px;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
 Modified: 6/15/2017 9:16:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 2057-1**

Small RNA Concentration [pg/μl]:	1,057.2	Result Flagging Color:	<span style="background-color: #90EE90; display: inline-block; width: 20px; height: 10px;"></span>
miRNA Concentration [pg/μl]:	82.6	Result Flagging Label:	8 % miRNA; Concentration: 82.60 pg/μl
miRNA / Small RNA Ratio [%]:	8		

**Region table for sample 11 : 2057-1**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	150	83	53.8	1,057.2	100	<span style="background-color: #800080; display: inline-block; width: 15px; height: 10px;"></span>
miRNA	10	40	26	33.3	82.6	8	<span style="background-color: #3CB371; display: inline-block; width: 15px; height: 10px;"></span>

Assay Class: Small RNA  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-15\2017-06-15\_001.xad

Created: 6/15/2017 8:39:37 AM  
Modified: 6/15/2017 9:16:25 AM

**Gel Image**

