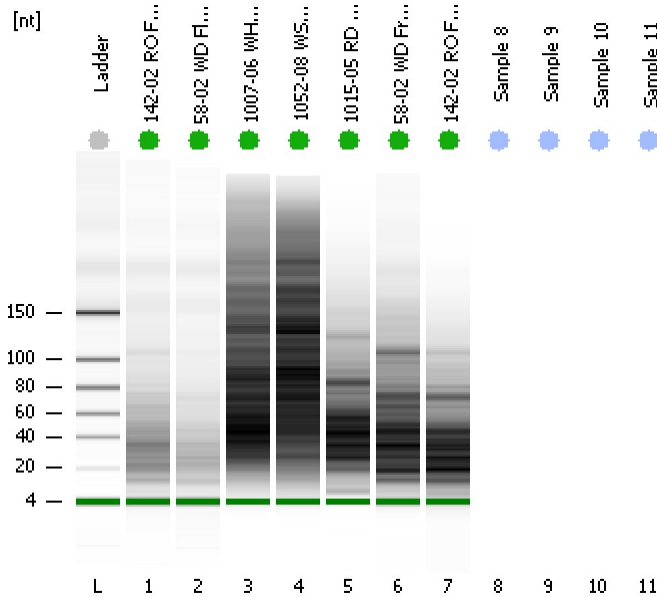


Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-03\2018-10-03\_001.xad

Created: 10/3/2018 8:12:14 AM  
 Modified: 10/3/2018 8:41:46 AM

**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\Small RNA Series II.xsy

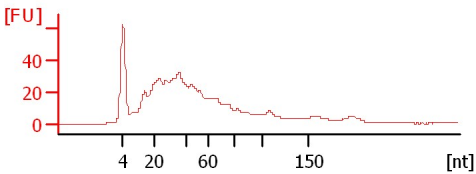
Assay Class: Small RNA  
 Version: 1.2  
 Assay Comments: Small RNA Analysis 6 - 150 nucleotides

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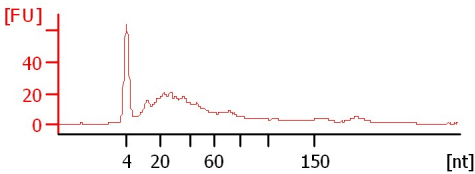
Chip Information:

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

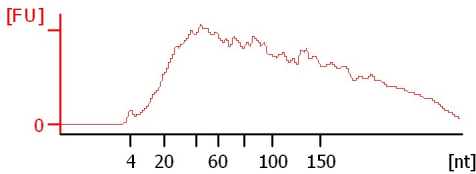
**142-02 RO Flow through**  
 74 % miRNA; Concentration: 9099.60 pg/μl



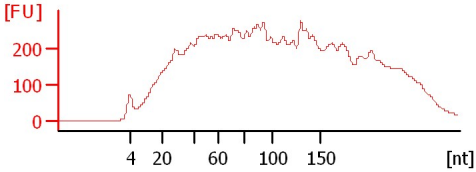
**58-02 WD Flow through**  
 77 % miRNA; Concentration: 5971.30 pg/μl



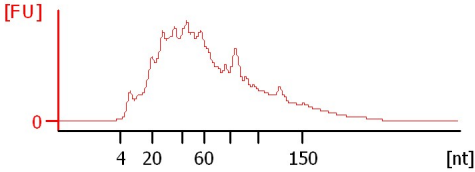
**1007-06 WH Fractions**  
 51 % miRNA; Concentration: 69628.80 p...



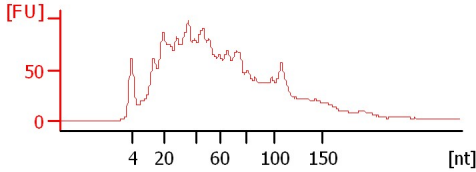
**1052-08 WS Fractions**  
 47 % miRNA; Concentration: 38727.90 p...



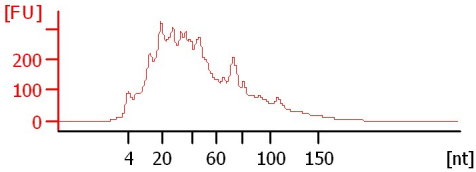
**1015-05 RD Fractions**  
 63 % miRNA; Concentration: 568916.30 ...



**58-02 WD Fractions**  
 67 % miRNA; Concentration: 24608.20 p...















**142-02 RO Fractions**  
 75 % miRNA; Concentration: 47641.10 p...



Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-03\2018-10-03\_001.xad

Created: 10/3/2018 8:12:14 AM  
 Modified: 10/3/2018 8:41:46 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
142-02 RO Flow through		✓	74 % miRNA; Concentration: 9099.60 pg/μl	
58-02 WD Flow through		✓	77 % miRNA; Concentration: 5971.30 pg/μl	
1007-06 WH Fractions		✓	51 % miRNA; Concentration: 69628.80 pg/μl	
1052-08 WS Fractions		✓	47 % miRNA; Concentration: 38727.90 pg/μl	
1015-05 RD Fractions		✓	63 % miRNA; Concentration: 568916.30 pg/μl	
58-02 WD Fractions		✓	67 % miRNA; Concentration: 24608.20 pg/μl	
142-02 RO Fractions		✓	75 % miRNA; Concentration: 47641.10 pg/μl	
Sample 8				
Sample 9				
Sample 10				
Sample 11				
Ladder		✓	Number of Peaks: 6	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Small RNA  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-03\2018-10-03\_001.xad

Created: 10/3/2018 8:12:14 AM  
Modified: 10/3/2018 8:41:46 AM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12

Minimum Visible Range [s] : 30

Maximum Visible Range [s] : 90

Start Analysis Time Range [s] : 31

End Analysis Time Range [s] : 89

Ladder Concentration [pg/ $\mu$ l] : 2500

Lower Marker Concentration [pg/ $\mu$ l] : 500

Upper Marker Concentration [pg/ $\mu$ l] : 0

Used Lower Marker for Quantitation

Standard Curve Fit is Logarithmic

Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 30

Integration End Time [s] : 89

Slope Threshold : 0.6

Height Threshold [FU] : 3

Area Threshold : 0.2

Width Threshold [s] : 0.5

Baseline Plateau [s] : 60

### Filter Settings

Filter Width [s] : 0.5

Polynomial Order : 4

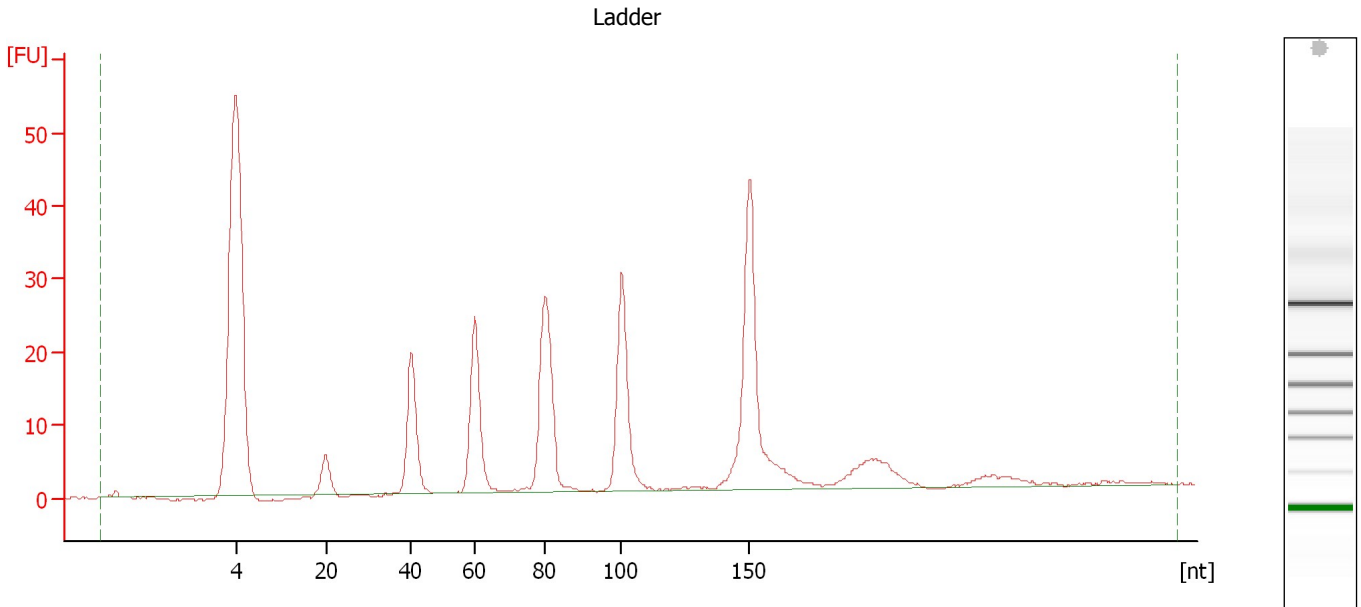
### Ladder

Ladder Peak	Size
1	4
2	20
3	40
4	60
5	80
6	100
7	150

Assay Class: Small RNA  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-03\2018-10-03\_001.xad

Created: 10/3/2018 8:12:14 AM  
Modified: 10/3/2018 8:41:46 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Result Flagging Color:

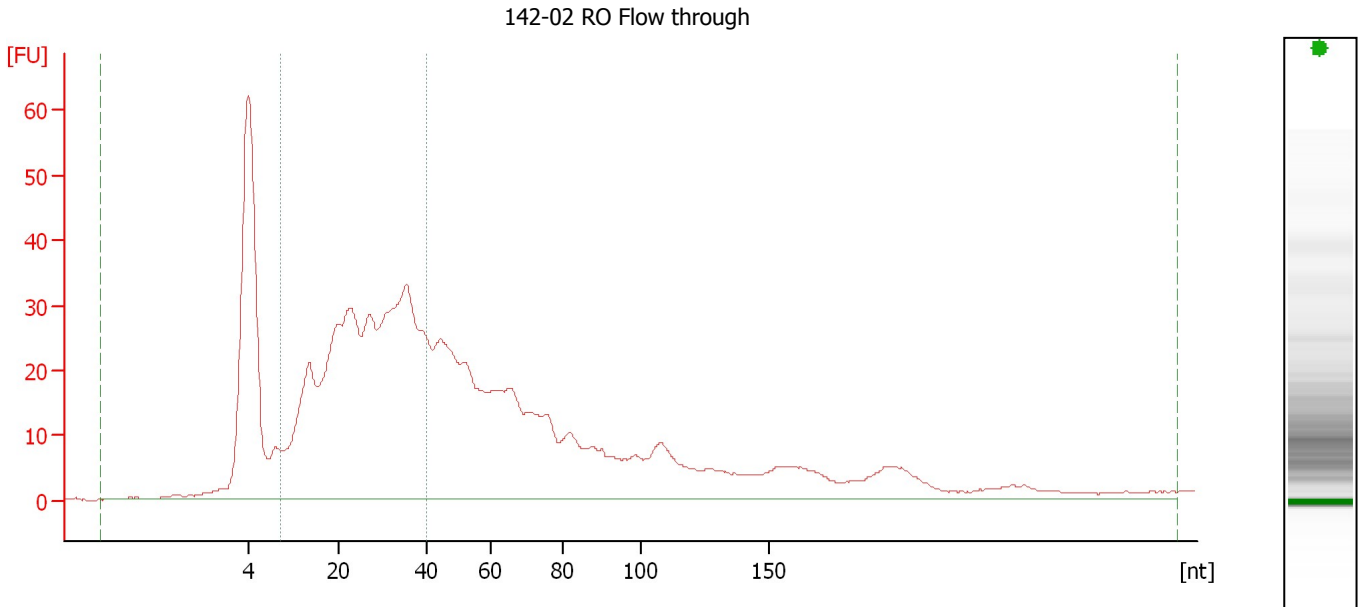
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-03\2018-10-03\_001.xad

Created: 10/3/2018 8:12:14 AM  
 Modified: 10/3/2018 8:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 142-02 RO Flow through**

Small RNA Concentration [pg/μl]:	12,304.3	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	9,099.6	Result Flagging Label:	74 % miRNA; Concentration: 9099.60 pg/μl
miRNA / Small RNA Ratio [%]:	74		

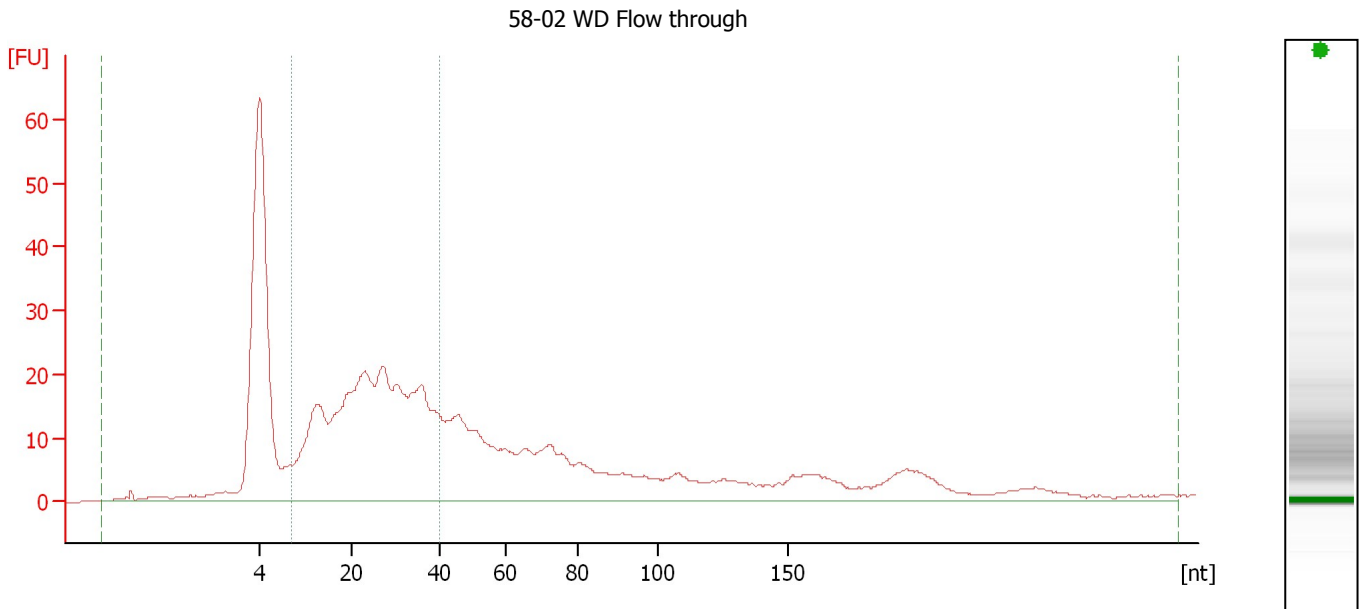
**Region table for sample 1 : 142-02 RO Flow through**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	307	61	99.4	12,304.3	100	<span style="background-color: purple; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	26	31.7	9,099.6	74	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-03\2018-10-03\_001.xad

Created: 10/3/2018 8:12:14 AM  
 Modified: 10/3/2018 8:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 58-02 WD Flow through**

Small RNA Concentration [pg/μl]:	7,778.2	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	5,971.3	Result Flagging Label:	77 % miRNA; Concentration: 5971.30 pg/μl
miRNA / Small RNA Ratio [%]:	77		

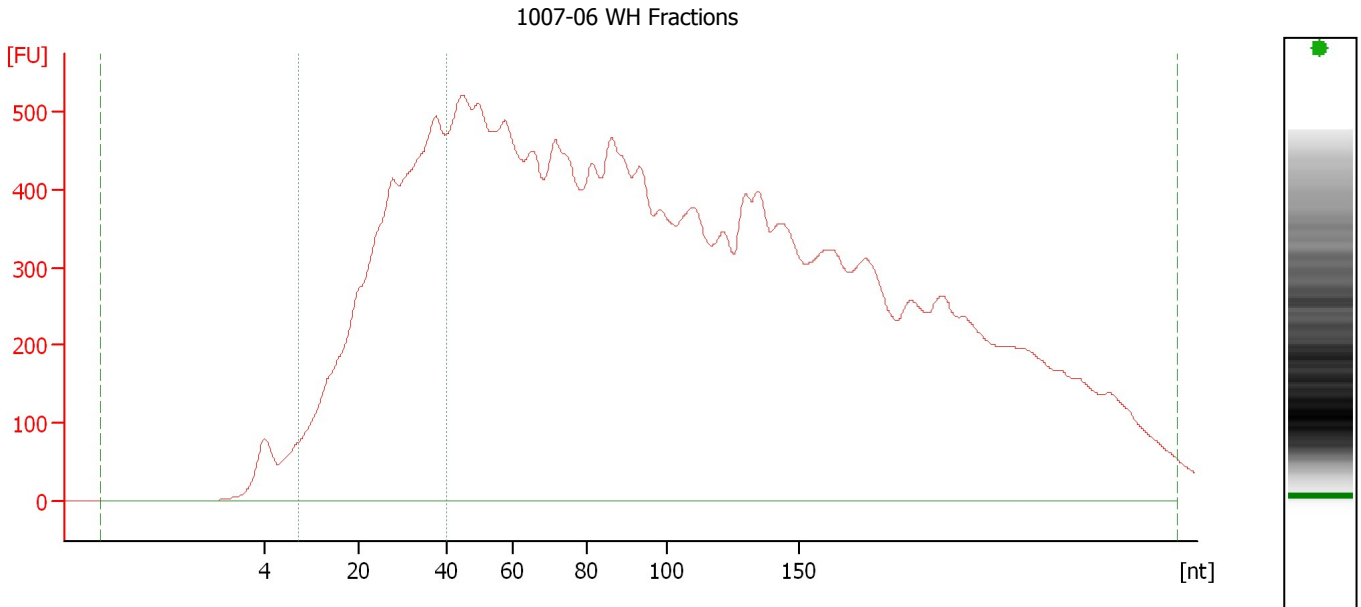
**Region table for sample 2 : 58-02 WD Flow through**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	298	60	100.0	7,778.2	100	<span style="background-color: maroon; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	25	33.1	5,971.3	77	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-03\2018-10-03\_001.xad

Created: 10/3/2018 8:12:14 AM  
 Modified: 10/3/2018 8:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 1007-06 WH Fractions**

Small RNA Concentration [pg/μl]:	137,571.7	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	69,628.8	Result Flagging Label:	51 % miRNA; Concentration: 69628.80 pg/μl
miRNA / Small RNA Ratio [%]:	51		

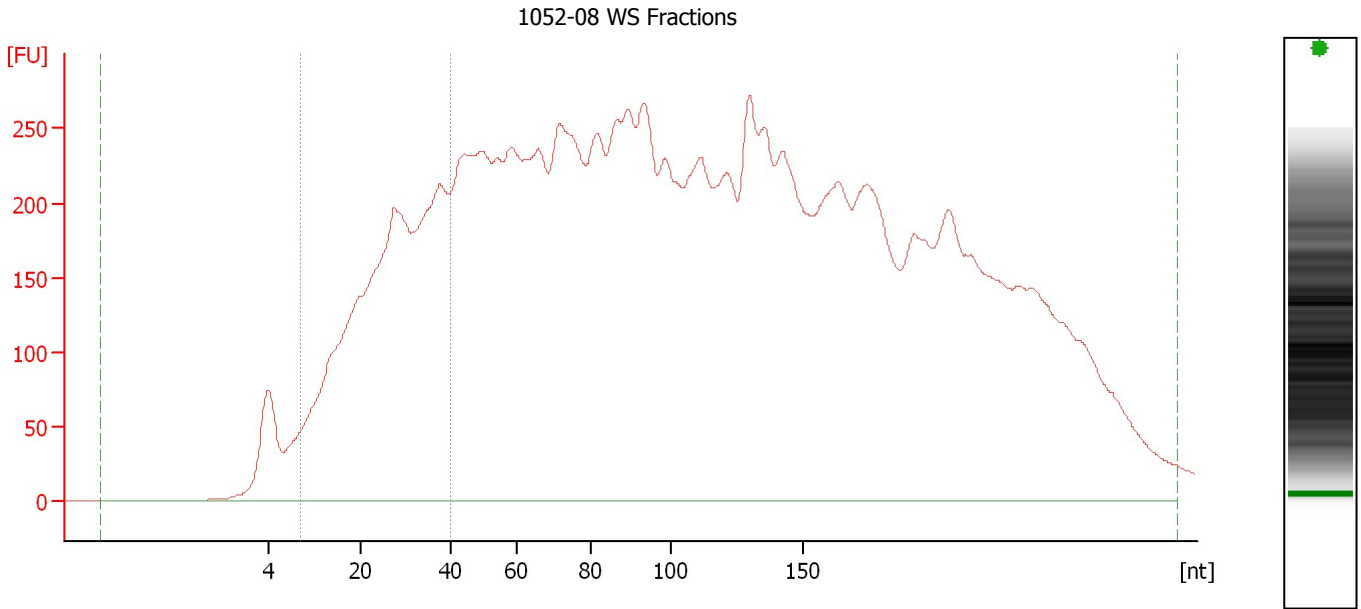
**Region table for sample 3 : 1007-06 WH Fractions**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	293	111	64.5	137,571.7	100	<span style="background-color: #800040; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	28	28.9	69,628.8	51	<span style="background-color: #408080; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-03\2018-10-03\_001.xad

Created: 10/3/2018 8:12:14 AM  
 Modified: 10/3/2018 8:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 1052-08 WS Fractions**

Small RNA Concentration [pg/μl]:	82,800.2	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	38,727.9	Result Flagging Label:	47 % miRNA; Concentration: 38727.90 pg/μl
miRNA / Small RNA Ratio [%]:	47		

**Region table for sample 4 : 1052-08 WS Fractions**

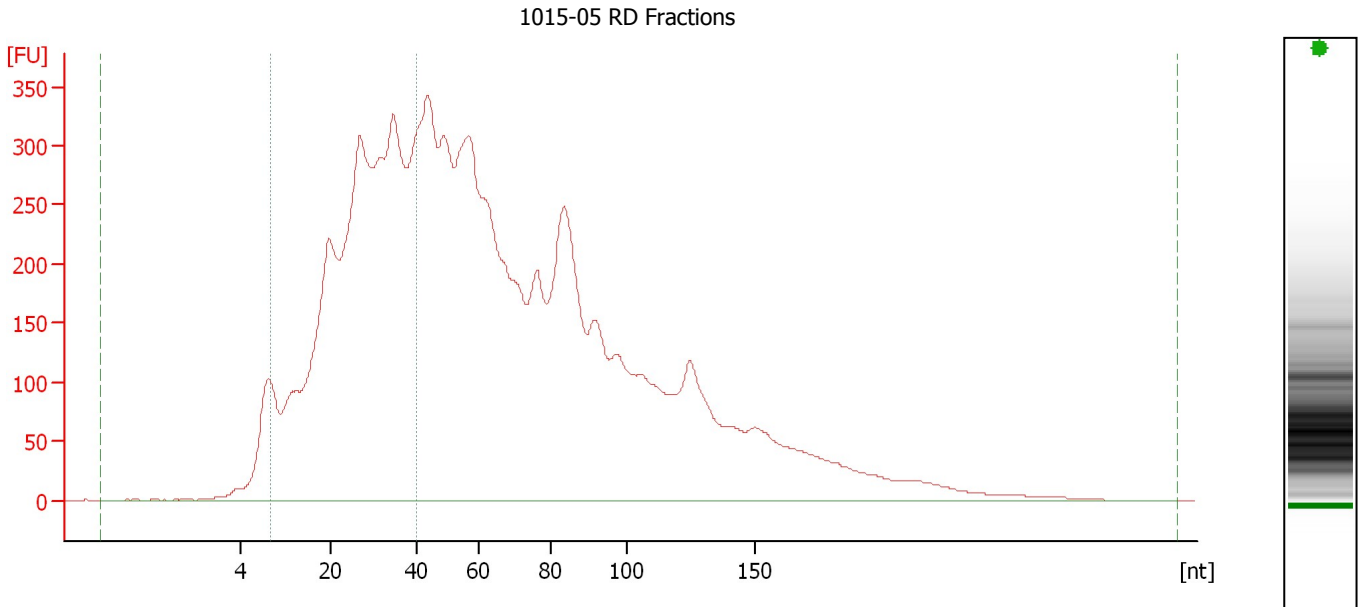
Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	290	118	60.3	82,800.2	100	<span style="background-color: purple; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	27	31.1	38,727.9	47	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>



Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-03\2018-10-03\_001.xad

Created: 10/3/2018 8:12:14 AM  
 Modified: 10/3/2018 8:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 1015-05 RD Fractions**

Small RNA Concentration [pg/μl]:	896,660.9	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	568,916.3	Result Flagging Label:	63 % miRNA; Concentration: 568916.30 pg/μl
miRNA / Small RNA Ratio [%]:	63		

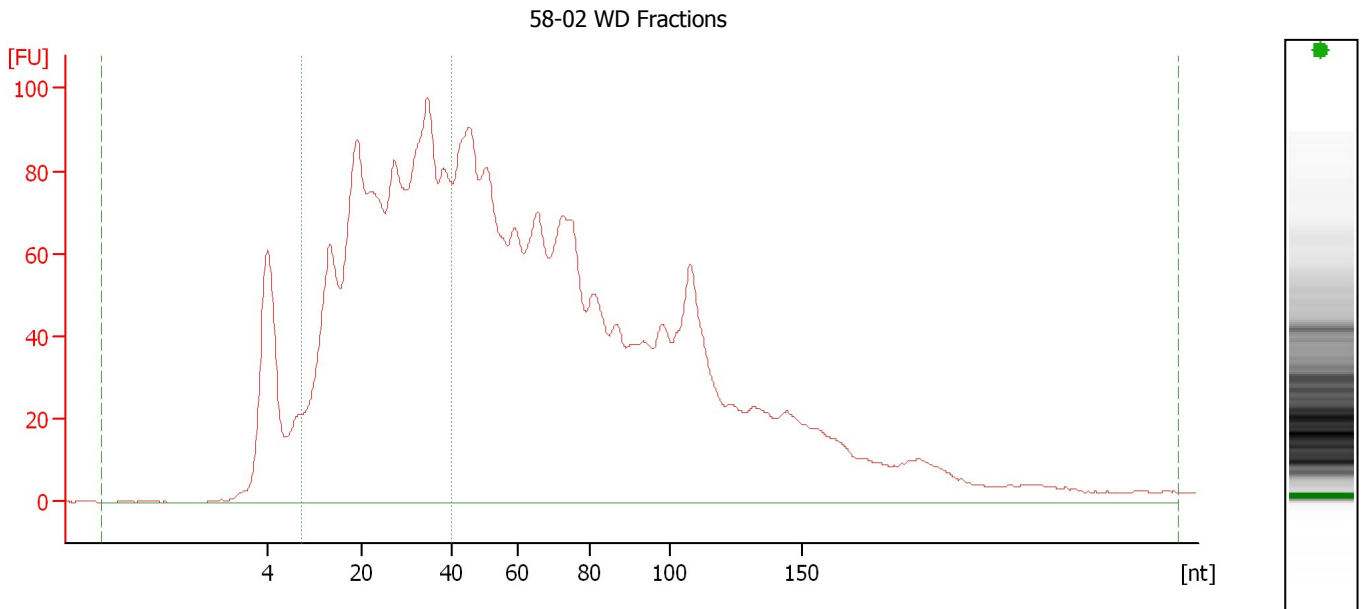
**Region table for sample 5 : 1015-05 RD Fractions**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	314	67	67.5	896,660.9	100	<span style="background-color: purple; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	27	29.6	568,916.3	63	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-03\2018-10-03\_001.xad

Created: 10/3/2018 8:12:14 AM  
 Modified: 10/3/2018 8:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 58-02 WD Fractions**

Small RNA Concentration [pg/μl]:	36,875.3	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	24,608.2	Result Flagging Label:	67 % miRNA; Concentration: 24608.20 pg/μl
miRNA / Small RNA Ratio [%]:	67		

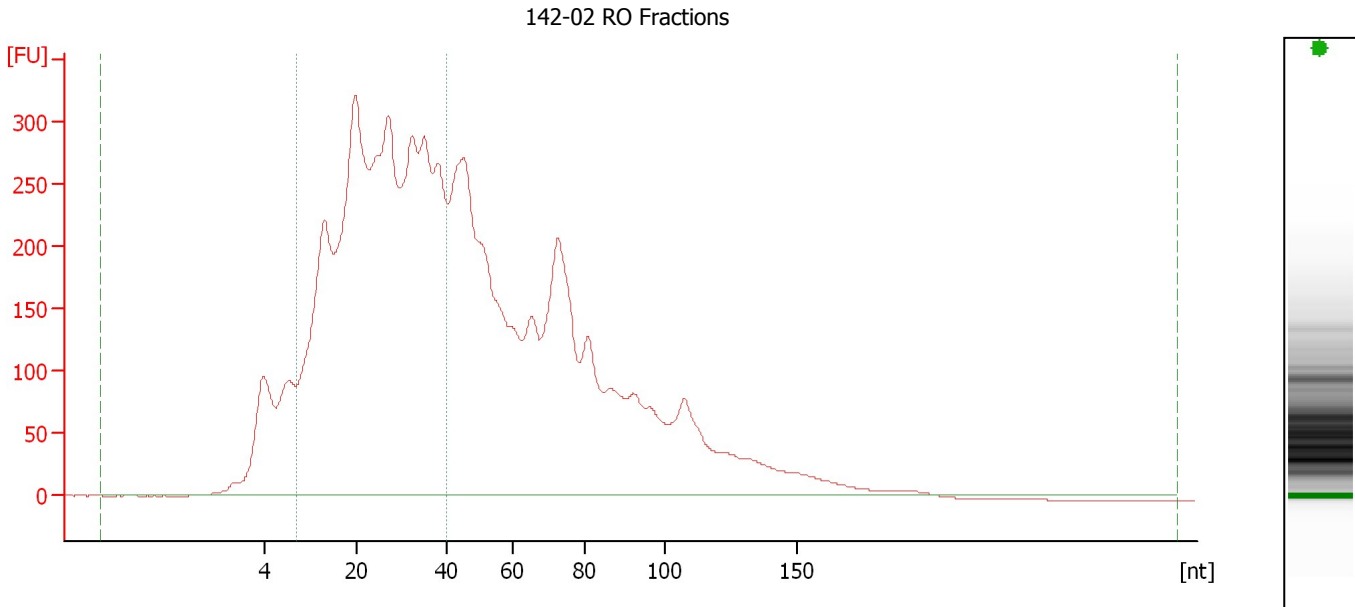
**Region table for sample 6 : 58-02 WD Fractions**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	291	67	77.4	36,875.3	100	<span style="background-color: purple; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	26	32.2	24,608.2	67	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-03\2018-10-03\_001.xad

Created: 10/3/2018 8:12:14 AM  
 Modified: 10/3/2018 8:41:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 142-02 RO Fractions**

Small RNA Concentration [pg/μl]:	63,276.1	Result Flagging Color:	<span style="background-color: green; color: black;"> </span>
miRNA Concentration [pg/μl]:	47,641.1	Result Flagging Label:	75 % miRNA; Concentration: 47641.10 pg/μl
miRNA / Small RNA Ratio [%]:	75		

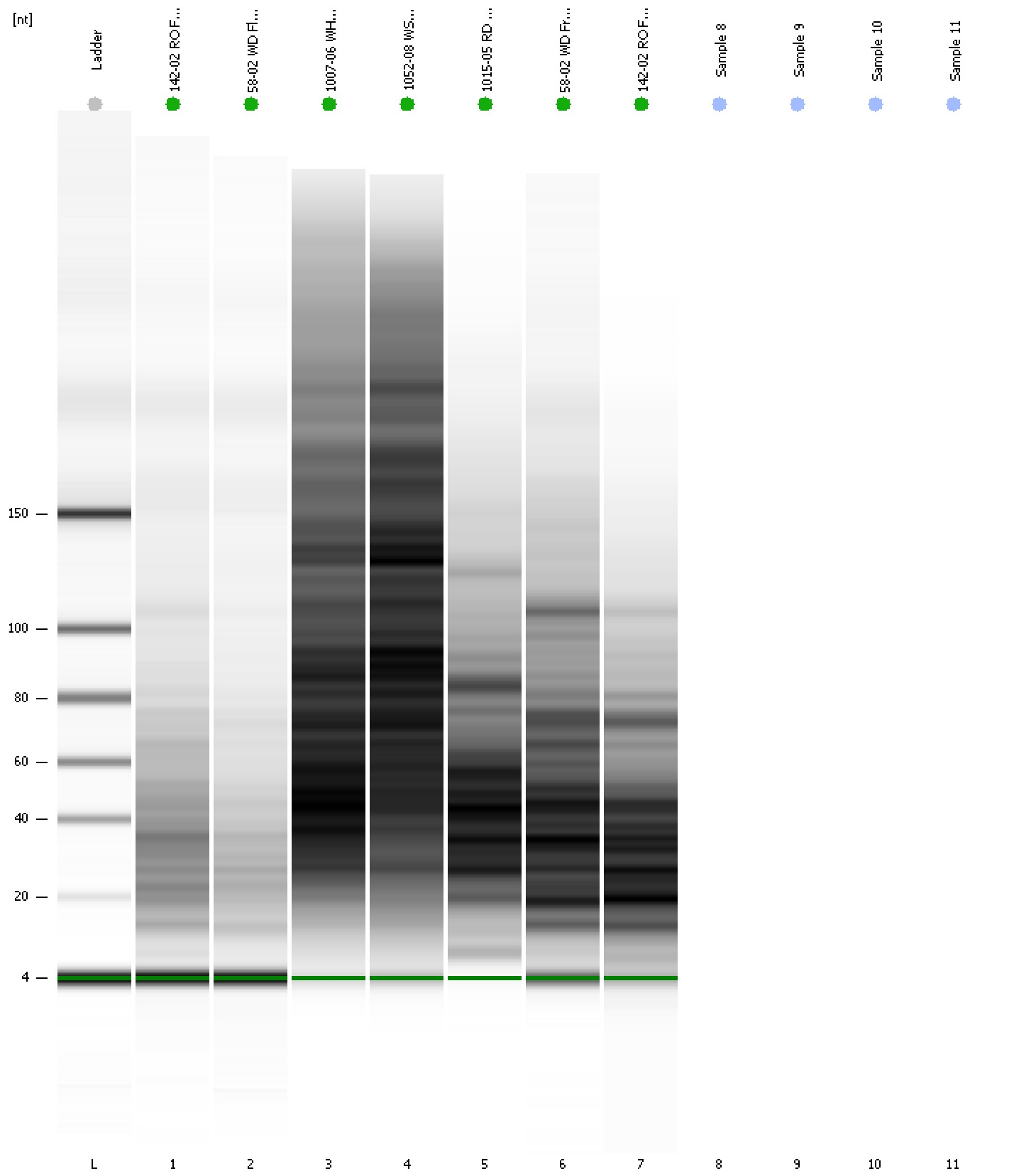
**Region table for sample 7 : 142-02 RO Fractions**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	293	48	69.9	63,276.1	100	<span style="background-color: maroon; color: black;"> </span>
miRNA	10	40	25	33.0	47,641.1	75	<span style="background-color: green; color: black;"> </span>

Assay Class: Small RNA  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-03\2018-10-03\_001.xad

Created: 10/3/2018 8:12:14 AM  
Modified: 10/3/2018 8:41:46 AM

**Gel Image**



Assay Class: Small RNA  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-10-03\2018-10-03\_001.xad

Created: 10/3/2018 8:12:14 AM  
Modified: 10/3/2018 8:41:46 AM

**Invalid Samples**

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.