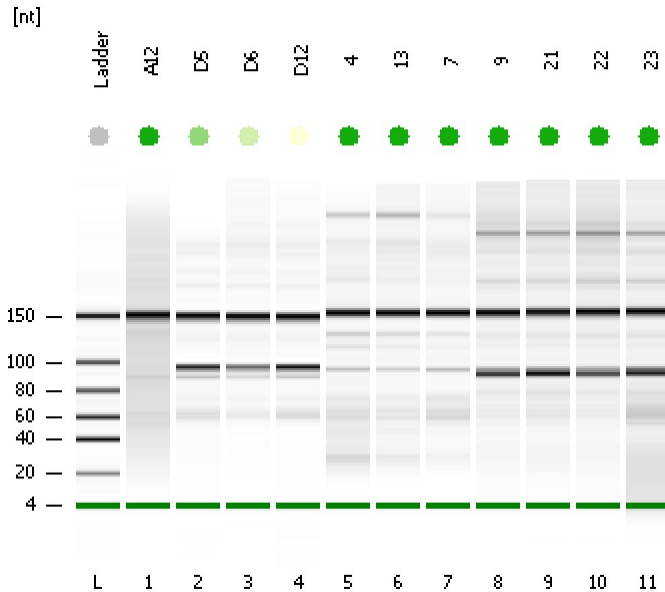


Assay Class: Small RNA  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
Modified: 8/17/2017 12:50:23 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\Small RNA Series II.xsy

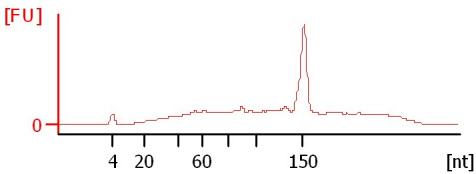
Assay Class: Small RNA  
Version: 1.2  
Assay Comments: Small RNA Analysis 6 - 150 nucleotides

© Copyright 2007 - 2009 Agilent Technologies, Inc.

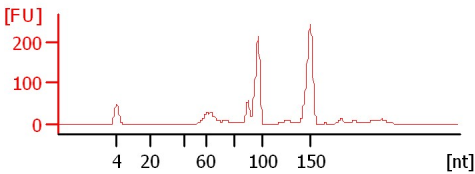
Chip Information:

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

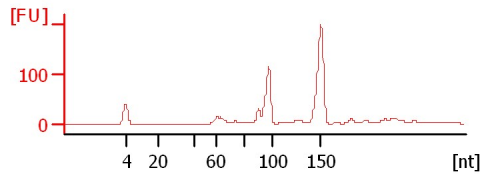
**A12**  
19 % miRNA; Concentration: 1701.10 pg/µl



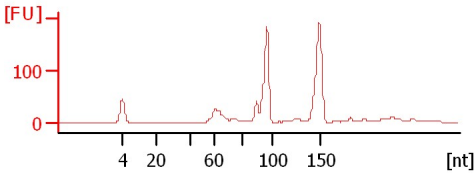
**D5**  
6 % miRNA; Concentration: 149.30 pg/µl



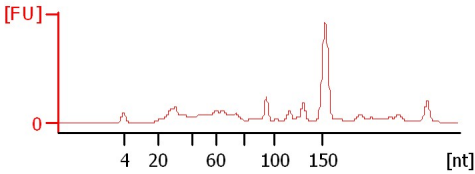
**D6**  
3 % miRNA; Concentration: 70.40 pg/µl



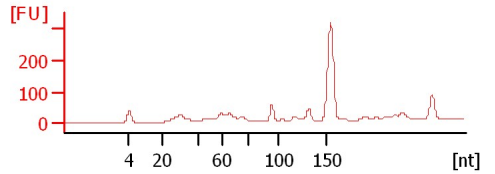
**D12**  
1 % miRNA; Concentration: 30.90 pg/µl



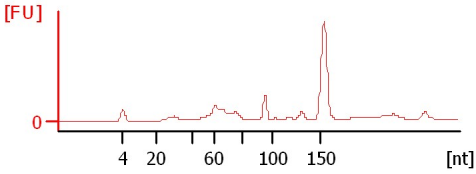
**4**  
32 % miRNA; Concentration: 2143.90 pg/µl



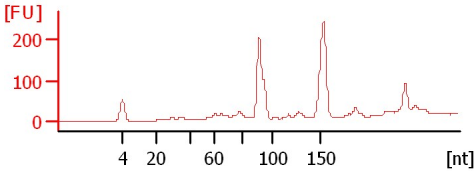
**13**  
21 % miRNA; Concentration: 990.80 pg/µl



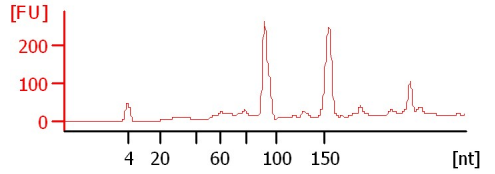
**7**  
15 % miRNA; Concentration: 704.50 pg/µl



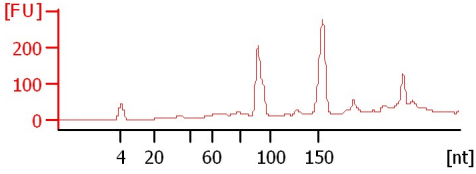
**9**  
14 % miRNA; Concentration: 485 pg/µl



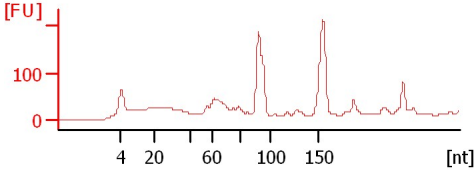
**21**  
14 % miRNA; Concentration: 608.30 pg/µl



**22**  
14 % miRNA; Concentration: 636.80 pg/µl













**23**  
39 % miRNA; Concentration: 1134.90 pg/µl



Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
 Modified: 8/17/2017 12:50:23 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
A12		✓	19 % miRNA; Concentration: 1701.10 pg/μl	
D5		✓	6 % miRNA; Concentration: 149.30 pg/μl	
D6		✓	3 % miRNA; Concentration: 70.40 pg/μl	
D12		✓	1 % miRNA; Concentration: 30.90 pg/μl	
4		✓	32 % miRNA; Concentration: 2143.90 pg/μl	
13		✓	21 % miRNA; Concentration: 990.80 pg/μl	
7		✓	15 % miRNA; Concentration: 704.50 pg/μl	
9		✓	14 % miRNA; Concentration: 485 pg/μl	
21		✓	14 % miRNA; Concentration: 608.30 pg/μl	
22		✓	14 % miRNA; Concentration: 636.80 pg/μl	
23		✓	39 % miRNA; Concentration: 1134.90 pg/μl	
Ladder		✓	Number of Peaks: 6	

Chip Lot #

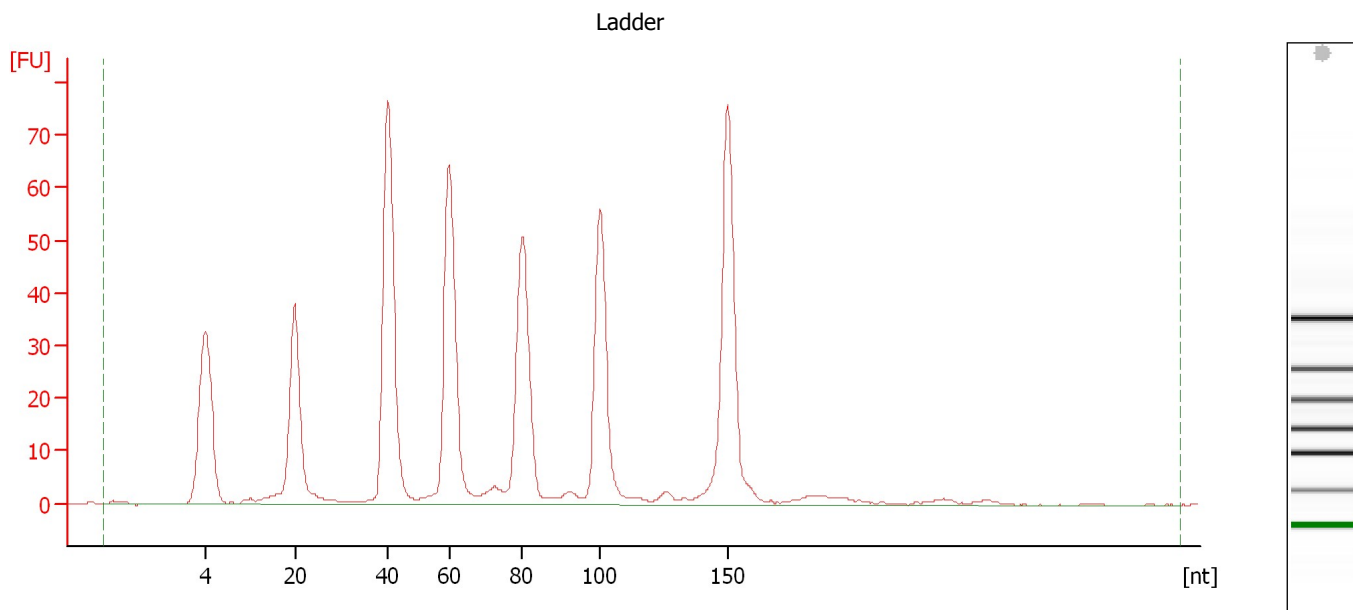
Reagent Kit Lot #

Chip Comments :

Assay Class: Small RNA  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
Modified: 8/17/2017 12:50:23 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Result Flagging Color:

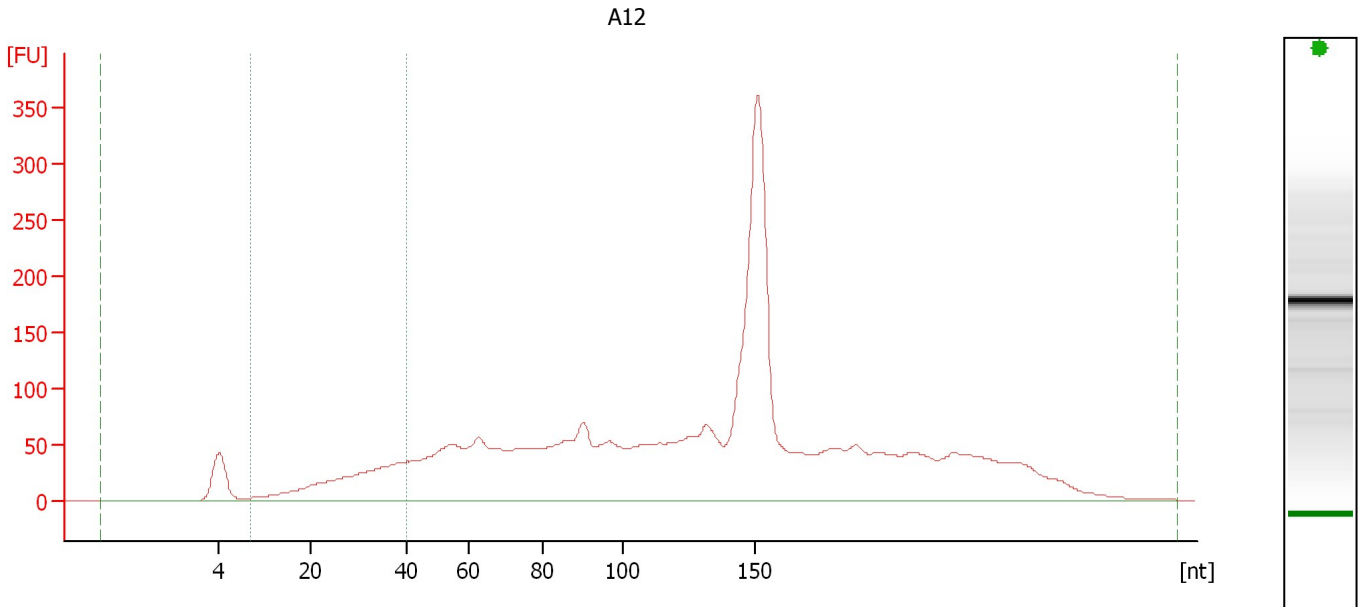
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
 Modified: 8/17/2017 12:50:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : A12**

Small RNA Concentration [pg/μl]:	9,050.9	Result Flagging Color:	<span style="background-color: green; color: green;">████████</span>
miRNA Concentration [pg/μl]:	1,701.1	Result Flagging Label:	19 % miRNA; Concentration: 1701.10 pg/μl
miRNA / Small RNA Ratio [%]:	19		

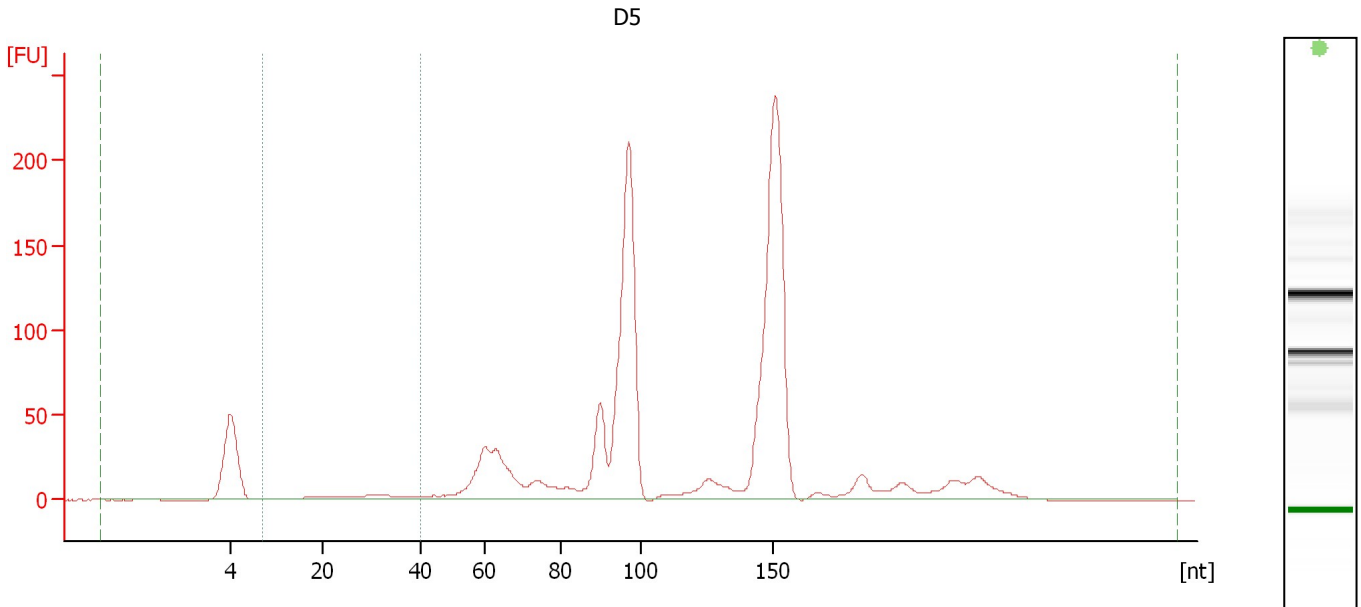
**Region table for sample 1 : A12**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	312	133	49.2	9,050.9	100	<span style="background-color: maroon; color: maroon;">████</span>
miRNA	10	40	29	26.4	1,701.1	19	<span style="background-color: green; color: green;">████</span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
 Modified: 8/17/2017 12:50:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : D5**

Small RNA Concentration [pg/μl]: 2,578.5  
 miRNA Concentration [pg/μl]: 149.3  
 miRNA / Small RNA Ratio [%]: 6

Result Flagging Color:   
 Result Flagging Label: 6 % miRNA;  
 Concentration: 149.30  
 pg/μl

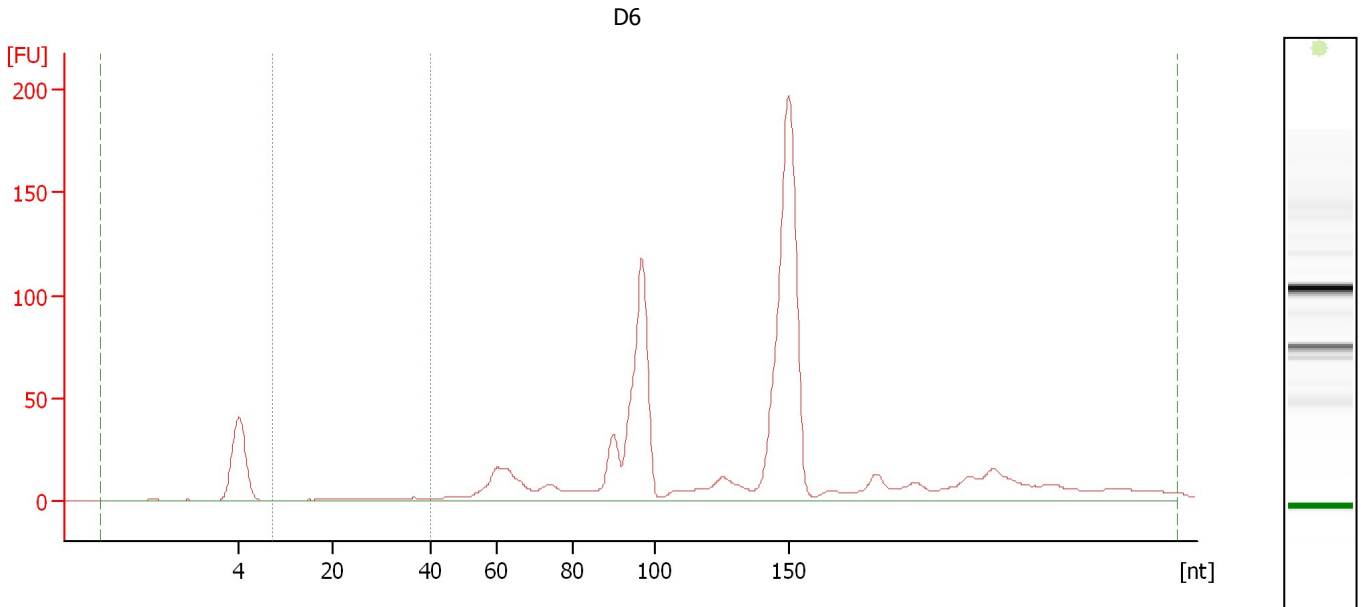
**Region table for sample 2 : D5**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	302	117	44.0	2,578.5	100	<span style="background-color: #800080; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>
miRNA	10	40	27	28.3	149.3	6	<span style="background-color: #008080; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
 Modified: 8/17/2017 12:50:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : D6**

Small RNA Concentration [pg/μl]: 2,280.9  
 miRNA Concentration [pg/μl]: 70.4  
 miRNA / Small RNA Ratio [%]: 3

Result Flagging Color:   
 Result Flagging Label: 3 % miRNA;  
 Concentration: 70.40  
 pg/μl

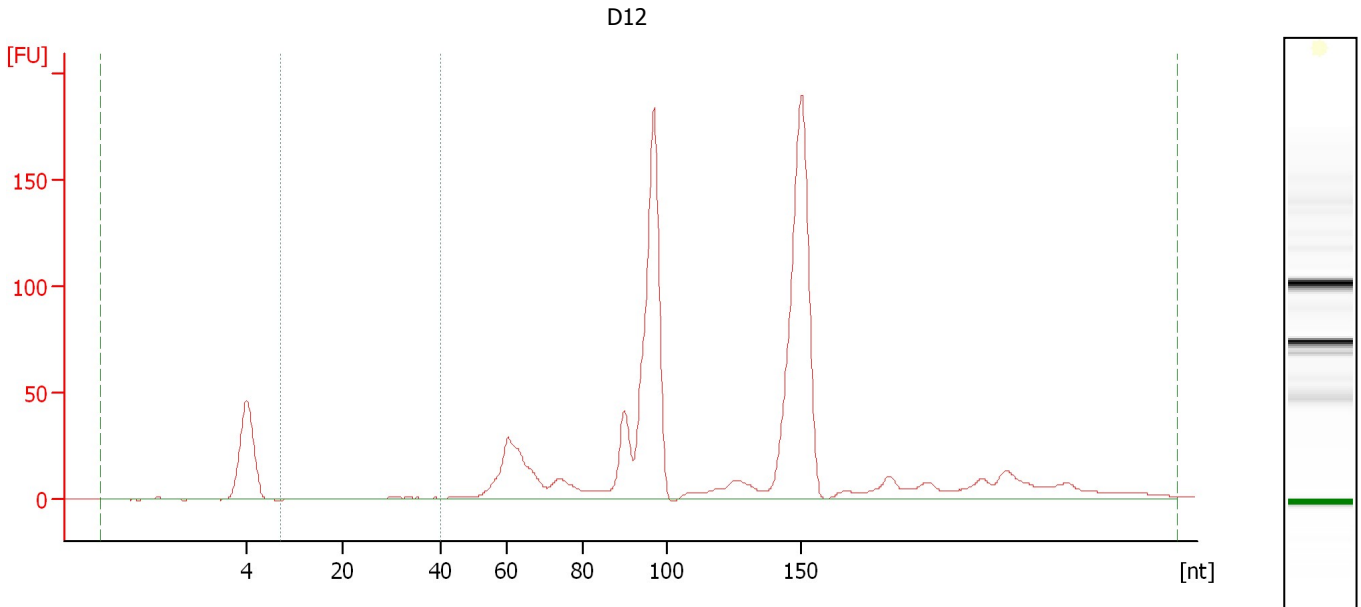
**Region table for sample 3 : D6**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	295	136	46.3	2,280.9	100	<span style="background-color: #800040; color: white; padding: 2px;"> </span>
miRNA	10	40	29	23.8	70.4	3	<span style="background-color: #008080; color: white; padding: 2px;"> </span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
 Modified: 8/17/2017 12:50:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : D12**

Small RNA Concentration [pg/μl]: 2,180.5  
 miRNA Concentration [pg/μl]: 30.9  
 miRNA / Small RNA Ratio [%]: 1

Result Flagging Color:   
 Result Flagging Label: 1 % miRNA;  
 Concentration: 30.90  
 pg/μl

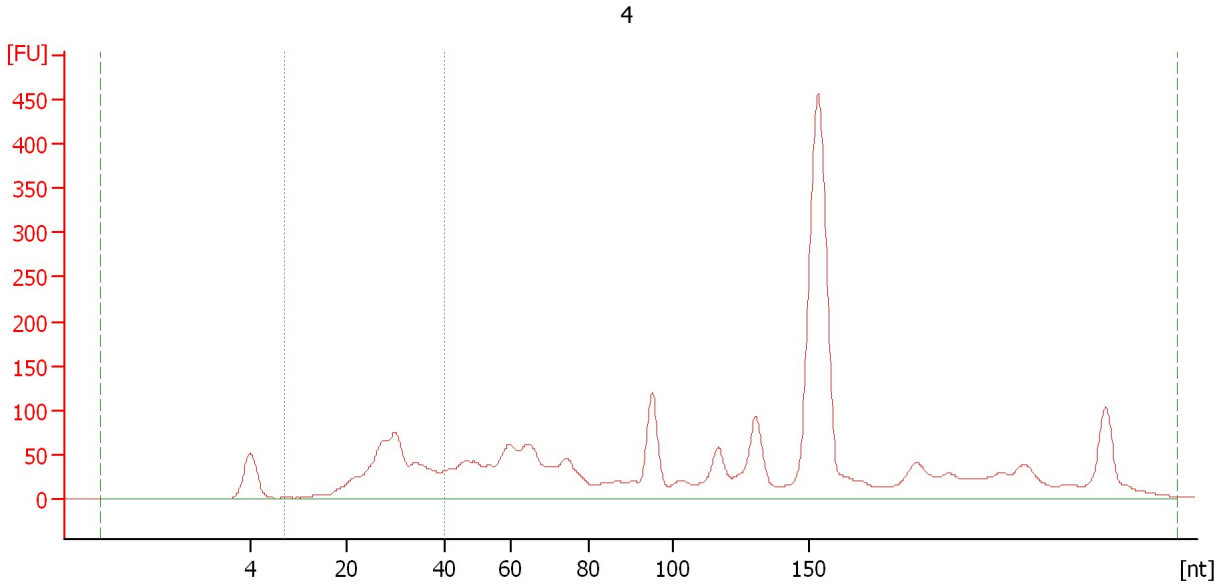
**Region table for sample 4 : D12**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	288	124	46.9	2,180.5	100	<span style="background-color: maroon; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>
miRNA	10	40	31	18.6	30.9	1	<span style="background-color: green; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
 Modified: 8/17/2017 12:50:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 4**

Small RNA Concentration [pg/μl]: 6,799.2  
 miRNA Concentration [pg/μl]: 2,143.9  
 miRNA / Small RNA Ratio [%]: 32

Result Flagging Color: ████████  
 Result Flagging Label: 32 % miRNA;  
 Concentration: 2143.90 pg/μl

**Region table for sample 5 : 4**

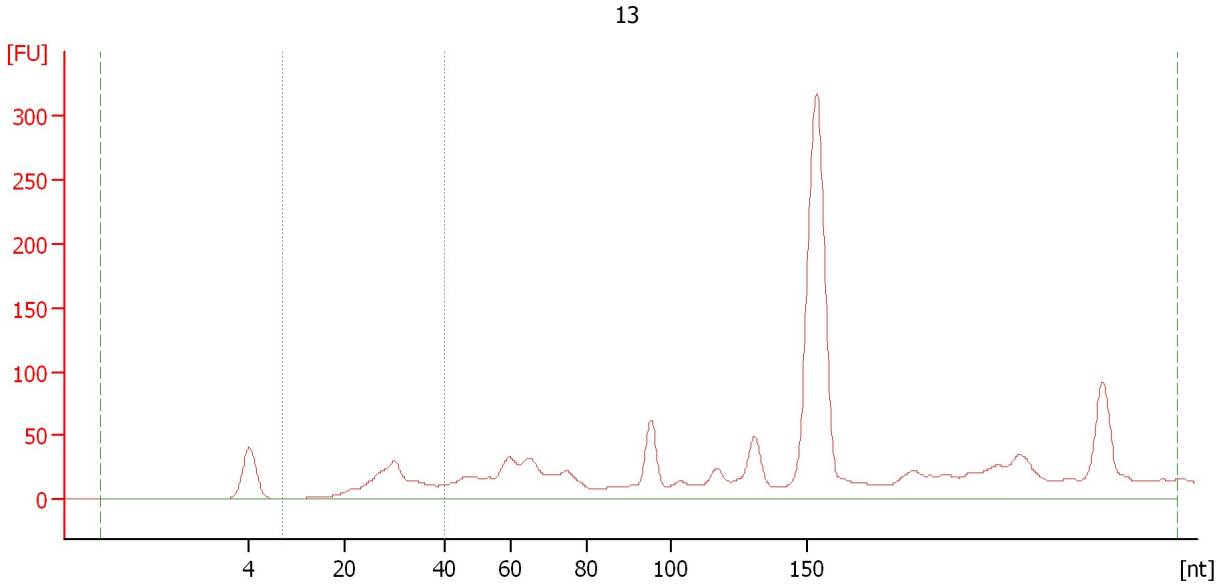
Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	285	126	55.7	6,799.2	100	<span style="background-color: maroon; color: maroon;">████</span>
miRNA	10	40	29	19.8	2,143.9	32	<span style="background-color: green; color: green;">████</span>



Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
 Modified: 8/17/2017 12:50:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 13**

Small RNA Concentration [pg/μl]: 4,641.2  
 miRNA Concentration [pg/μl]: 990.8  
 miRNA / Small RNA Ratio [%]: 21

Result Flagging Color:    
 Result Flagging Label: 21 % miRNA;  
 Concentration: 990.80  
 pg/μl

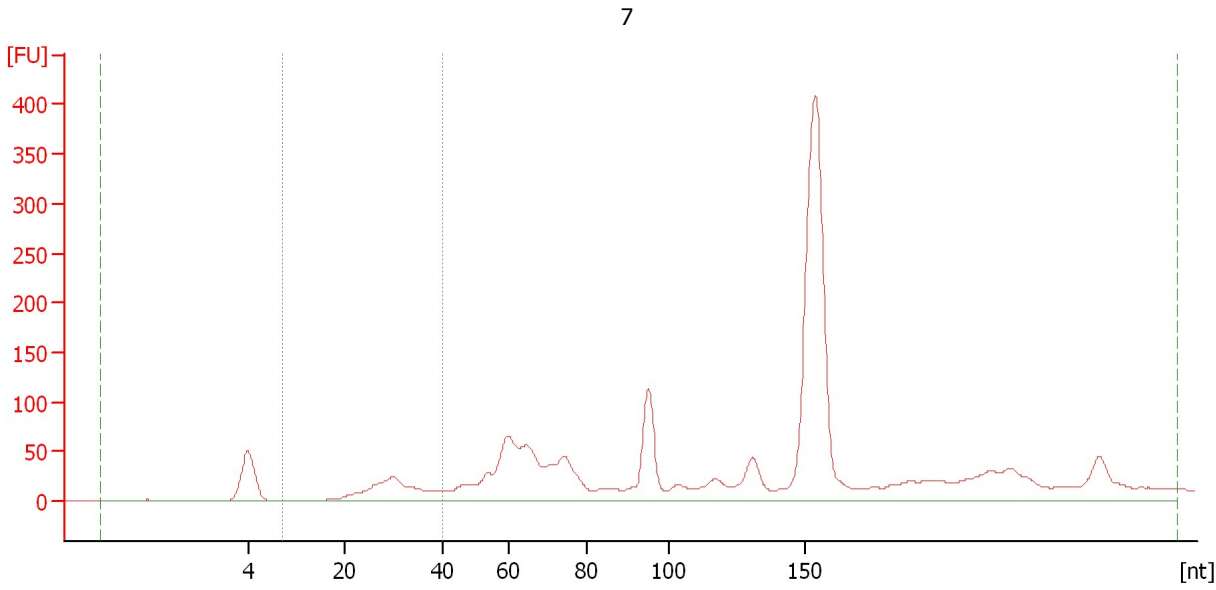
**Region table for sample 6 : 13**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	286	146	50.3	4,641.2	100	<span style="background-color: maroon; color: maroon;"> </span>
miRNA	10	40	29	19.9	990.8	21	<span style="background-color: green; color: green;"> </span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
 Modified: 8/17/2017 12:50:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 :** 7

Small RNA Concentration [pg/μl]: 4,608.5  
 miRNA Concentration [pg/μl]: 704.5  
 miRNA / Small RNA Ratio [%]: 15

Result Flagging Color:    
 Result Flagging Label: 15 % miRNA;  
 Concentration: 704.50  
 pg/μl

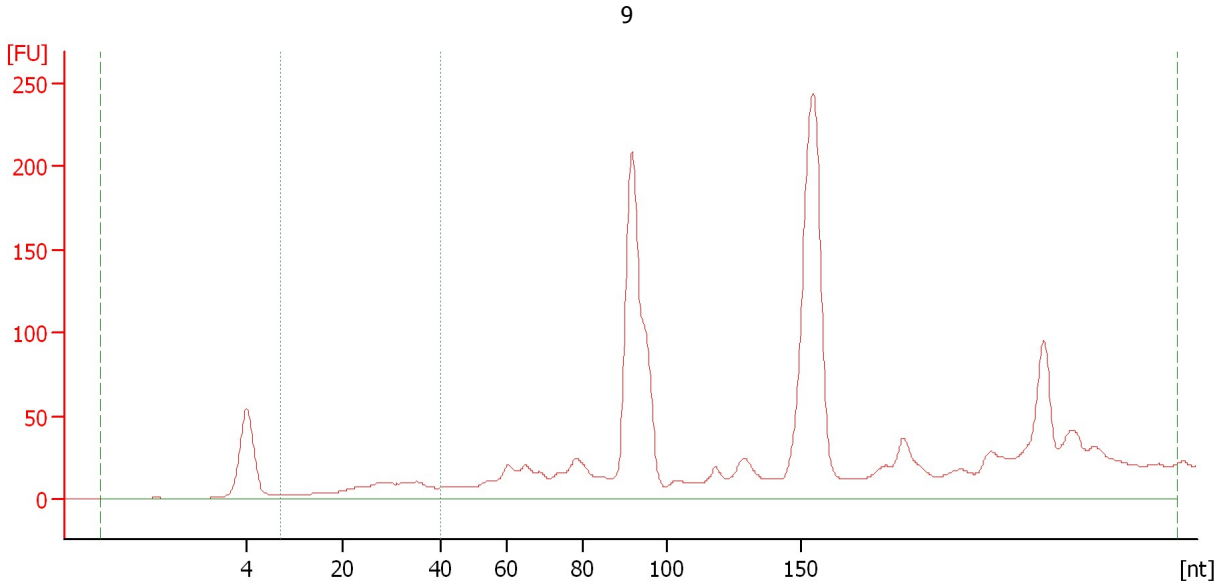
**Region table for sample 7 :** 7

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	287	136	50.0	4,608.5	100	<span style="background-color: maroon; color: maroon;"> </span>
miRNA	10	40	30	18.6	704.5	15	<span style="background-color: green; color: green;"> </span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
 Modified: 8/17/2017 12:50:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 9**

Small RNA Concentration [pg/μl]: 3,451.5  
 miRNA Concentration [pg/μl]: 485.0  
 miRNA / Small RNA Ratio [%]: 14

Result Flagging Color:   
 Result Flagging Label: 14 % miRNA;  
 Concentration: 485  
 pg/μl

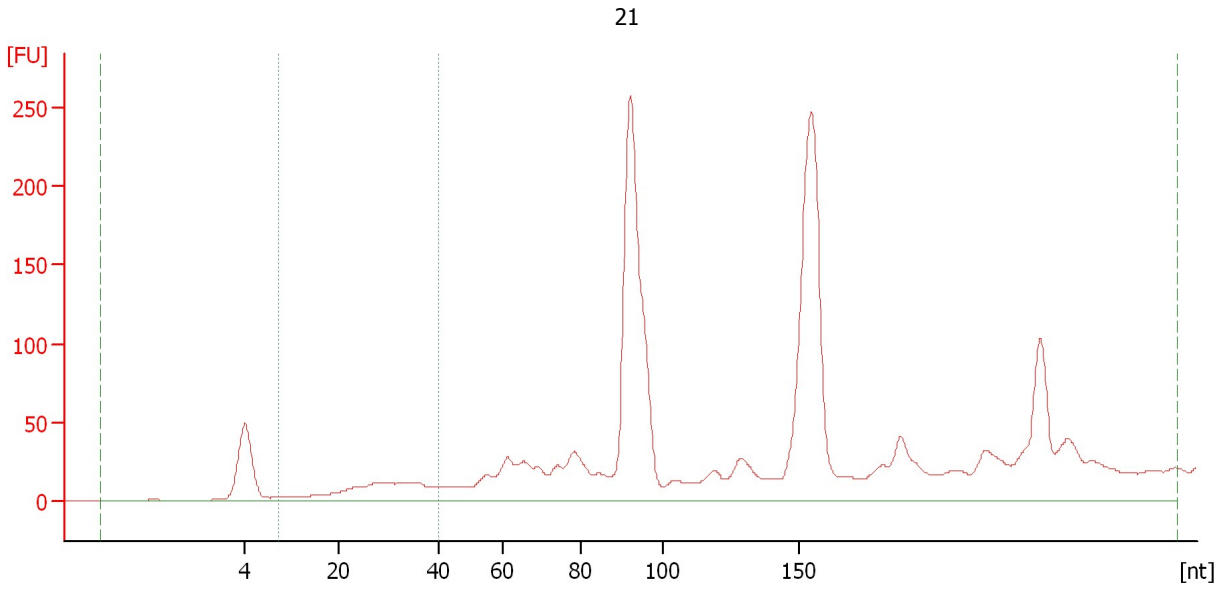
**Region table for sample 8 : 9**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	288	148	50.1	3,451.5	100	<span style="background-color: #800040; display: inline-block; width: 10px; height: 10px;"></span>
miRNA	10	40	27	29.0	485.0	14	<span style="background-color: #008080; display: inline-block; width: 10px; height: 10px;"></span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
 Modified: 8/17/2017 12:50:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 21**

Small RNA Concentration [pg/μl]: 4,349.5  
 miRNA Concentration [pg/μl]: 608.3  
 miRNA / Small RNA Ratio [%]: 14

Result Flagging Color:    
 Result Flagging Label: 14 % miRNA;  
 Concentration: 608.30  
 pg/μl

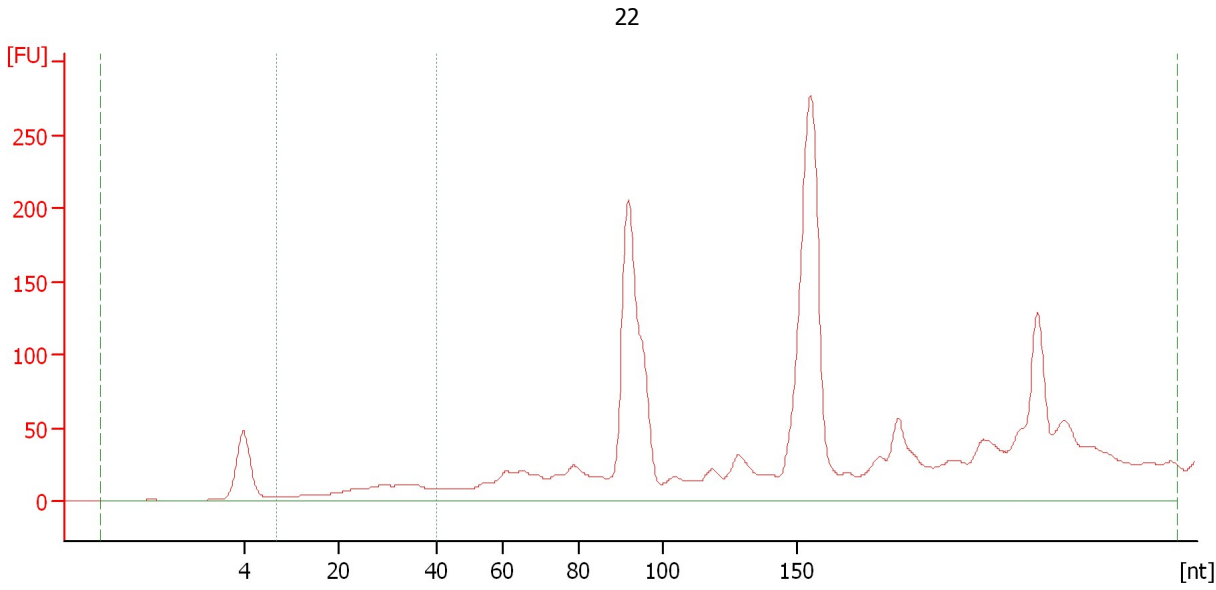
**Region table for sample 9 : 21**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	290	144	50.3	4,349.5	100	<span style="background-color: #800040; color: #800040;"> </span>
miRNA	10	40	28	27.1	608.3	14	<span style="background-color: #008080; color: #008080;"> </span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
 Modified: 8/17/2017 12:50:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 22**

Small RNA Concentration [pg/μl]: 4,712.9  
 miRNA Concentration [pg/μl]: 636.8  
 miRNA / Small RNA Ratio [%]: 14

Result Flagging Color: ████████  
 Result Flagging Label: 14 % miRNA;  
 Concentration: 636.80  
 pg/μl

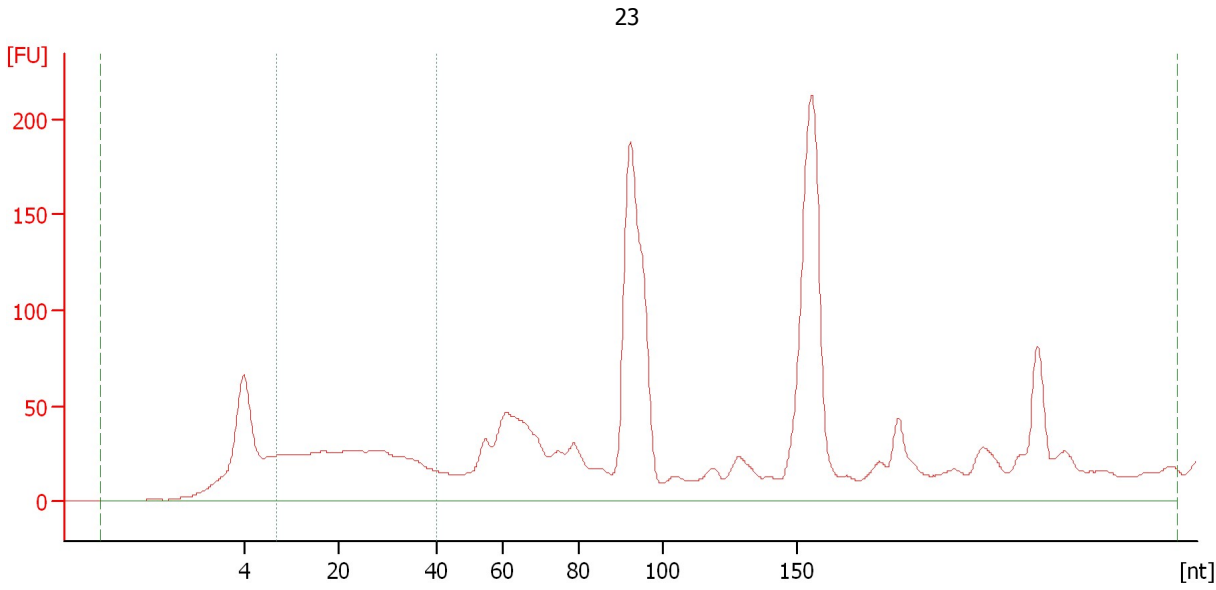
**Region table for sample 10 : 22**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	291	157	46.9	4,712.9	100	<span style="background-color: maroon; color: maroon;">████</span>
miRNA	10	40	27	29.3	636.8	14	<span style="background-color: green; color: green;">████</span>

Assay Class: Small RNA  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
 Modified: 8/17/2017 12:50:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 23**

Small RNA Concentration [pg/μl]: 2,917.2  
 miRNA Concentration [pg/μl]: 1,134.9  
 miRNA / Small RNA Ratio [%]: 39

Result Flagging Color:             
 Result Flagging Label: 39 % miRNA;  
 Concentration:  
 1134.90 pg/μl

**Region table for sample 11 : 23**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	291	118	66.8	2,917.2	100	<span style="background-color: maroon; color: black;">          </span>
miRNA	10	40	23	36.4	1,134.9	39	<span style="background-color: green; color: black;">          </span>

Assay Class: Small RNA  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17\_004.xad

Created: 8/17/2017 12:19:34 PM  
Modified: 8/17/2017 12:50:23 PM

**Gel Image**

