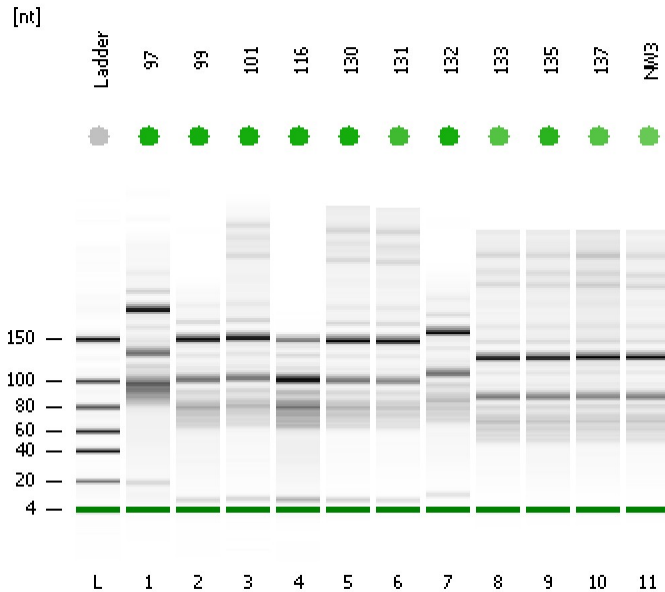


Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
Modified: 9/11/2017 11:08:32 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

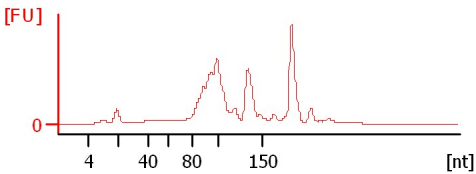
Assay Class: Small RNA
Version: 1.2
Assay Comments: Small RNA Analysis 6 - 150 nucleotides

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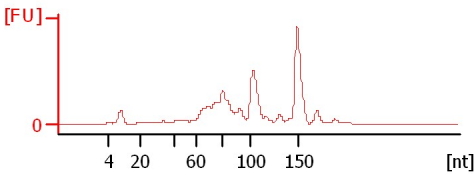
Chip Information:

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

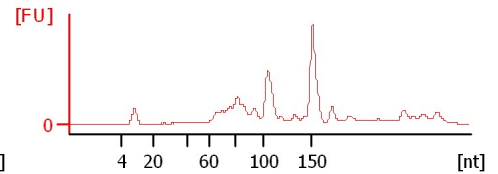
97
19 % miRNA; Concentration: 38780.20 p...



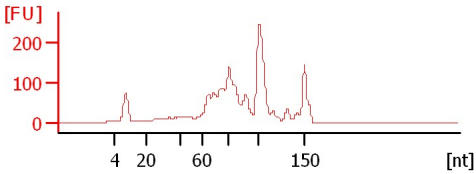
99
16 % miRNA; Concentration: 3698.30 pg/μl



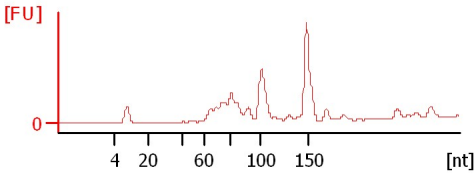
101
15 % miRNA; Concentration: 8999.90 pg/μl



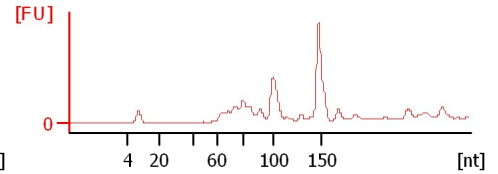
116
22 % miRNA; Concentration: 4684.90 pg/μl



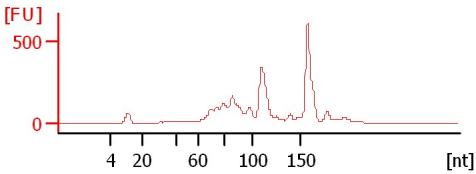
130
13 % miRNA; Concentration: 4633.10 pg/μl



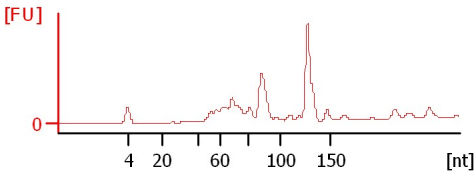
131
10 % miRNA; Concentration: 6846.20 pg/μl



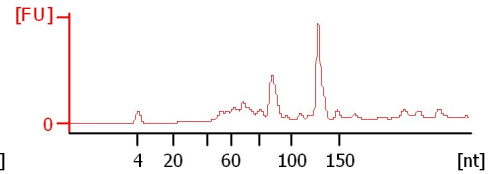
132
17 % miRNA; Concentration: 13427.40 p...



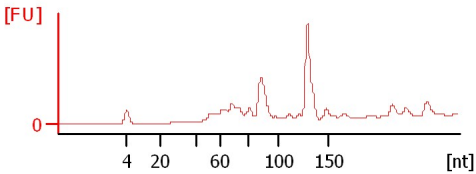
133
9 % miRNA; Concentration: 404.50 pg/μl



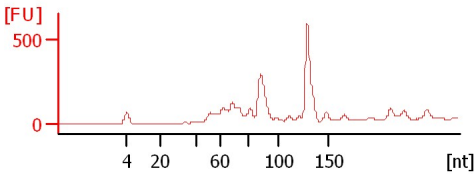
135
11 % miRNA; Concentration: 672.20 pg/μl



137
9 % miRNA; Concentration: 497.30 pg/μl















NW3
8 % miRNA; Concentration: 454.20 pg/μl



Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
 Modified: 9/11/2017 11:08:32 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
97		✓	19 % miRNA; Concentration: 38780.20 pg/μl	
99		✓	16 % miRNA; Concentration: 3698.30 pg/μl	
101		✓	15 % miRNA; Concentration: 8999.90 pg/μl	
116		✓	22 % miRNA; Concentration: 4684.90 pg/μl	
130		✓	13 % miRNA; Concentration: 4633.10 pg/μl	
131		✓	10 % miRNA; Concentration: 6846.20 pg/μl	
132		✓	17 % miRNA; Concentration: 13427.40 pg/μl	
133		✓	9 % miRNA; Concentration: 404.50 pg/μl	
135		✓	11 % miRNA; Concentration: 672.20 pg/μl	
137		✓	9 % miRNA; Concentration: 497.30 pg/μl	
NW3		✓	8 % miRNA; Concentration: 454.20 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\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
Modified: 9/11/2017 11:08:32 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/ μ l] : 2500
Lower Marker Concentration [pg/ μ l] : 500
Upper Marker Concentration [pg/ 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] : 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

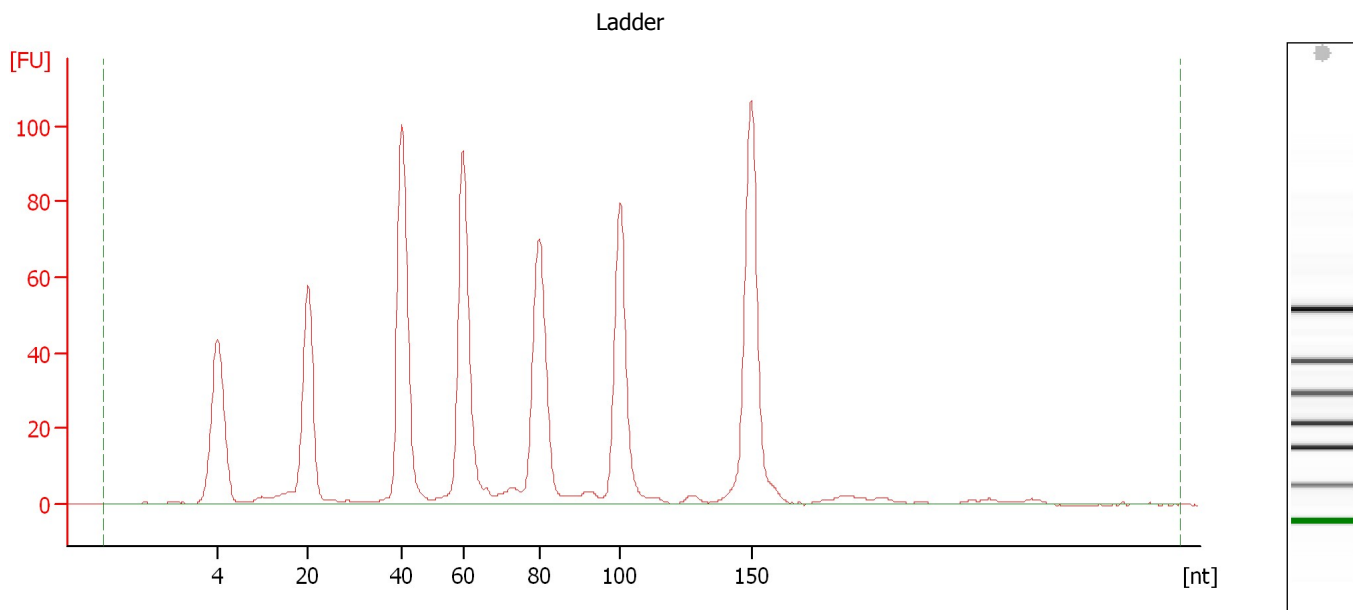
Ladder

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\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
Modified: 9/11/2017 11:08:32 AM

Electropherogram Summary



Overall Results for Ladder

Result Flagging Color:

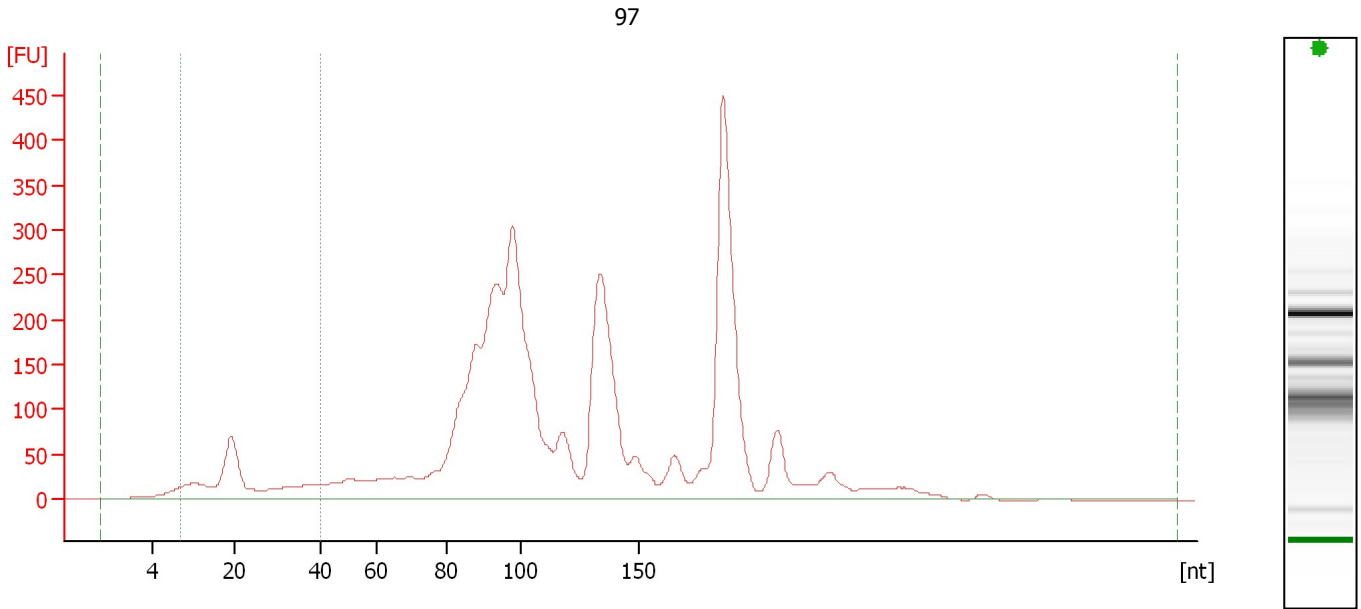
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
 Modified: 9/11/2017 11:08:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 97

Small RNA Concentration [pg/μl]:	199,468.6	Result Flagging Color:	
miRNA Concentration [pg/μl]:	38,780.2	Result Flagging Label:	19 % miRNA; Concentration: 38780.20 pg/μl
miRNA / Small RNA Ratio [%]:	19		

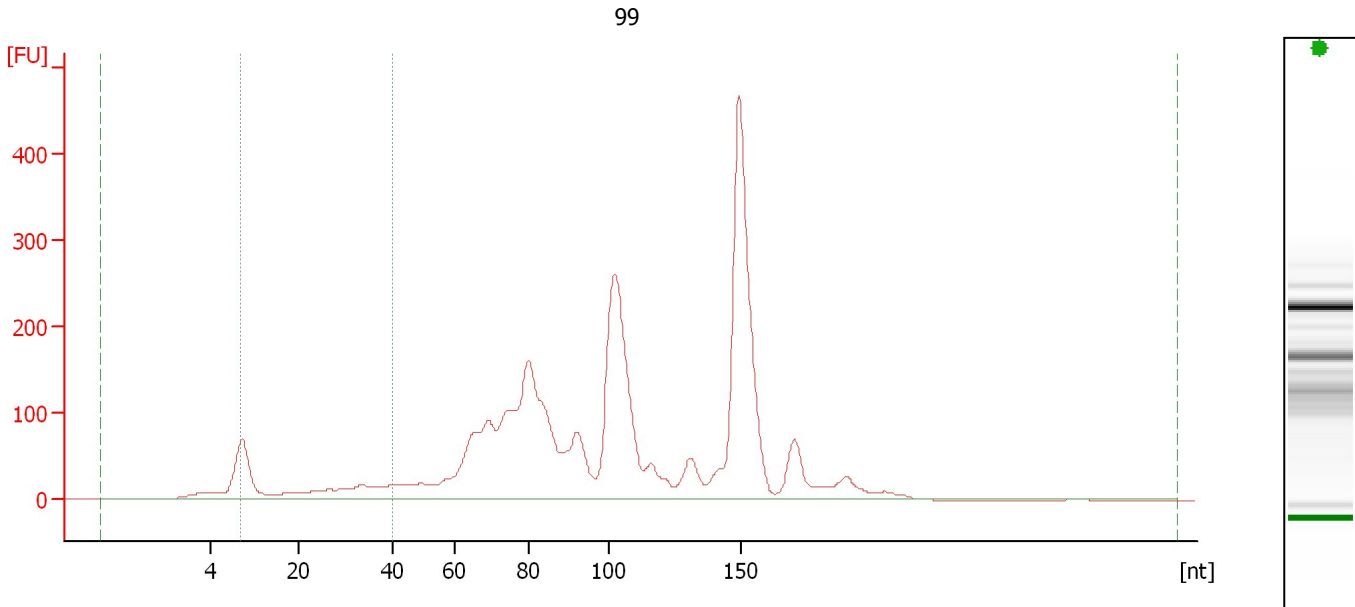
Region table for sample 1 : 97

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	374	125	43.4	199,468.6	100	
miRNA	10	40	22	36.2	38,780.2	19	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
 Modified: 9/11/2017 11:08:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 99

Small RNA Concentration [pg/μl]:	22,873.6	Result Flagging Color:	
miRNA Concentration [pg/μl]:	3,698.3	Result Flagging Label:	16 % miRNA; Concentration: 3698.30 pg/μl
miRNA / Small RNA Ratio [%]:	16		

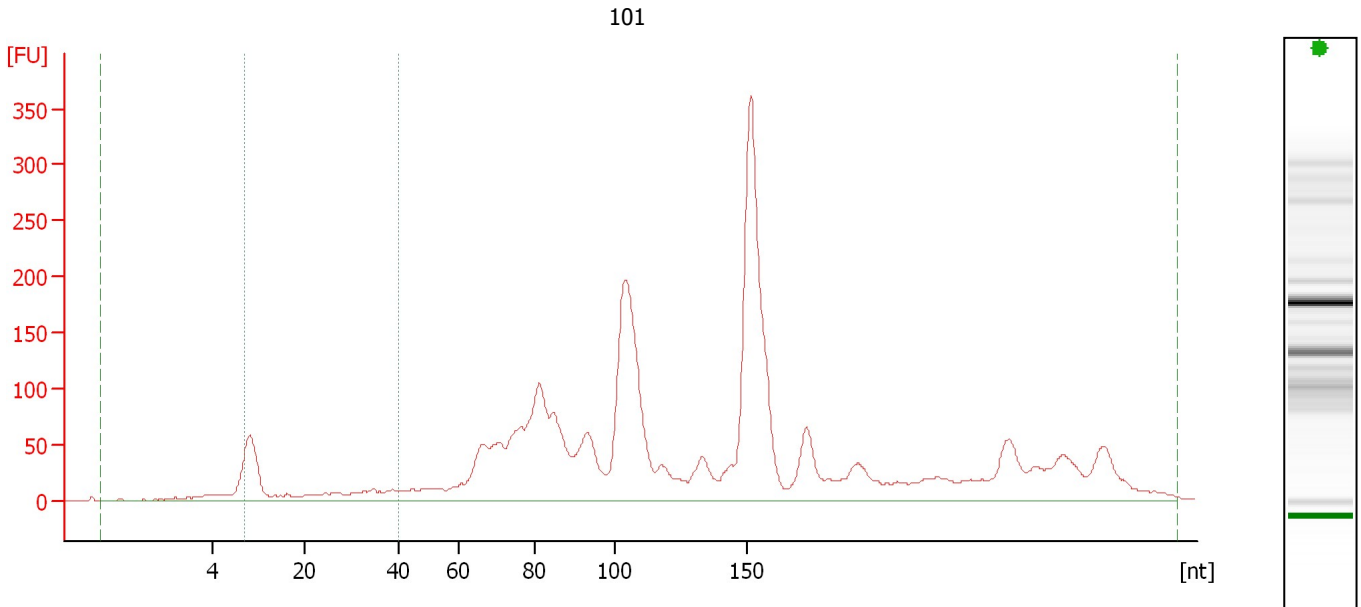
Region table for sample 2 : 99

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	318	106	42.3	22,873.6	100	
miRNA	10	40	22	46.8	3,698.3	16	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
 Modified: 9/11/2017 11:08:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 101

Small RNA Concentration [pg/μl]:	58,158.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	8,999.9	Result Flagging Label:	15 % miRNA; Concentration: 8999.90 pg/μl
miRNA / Small RNA Ratio [%]:	15		

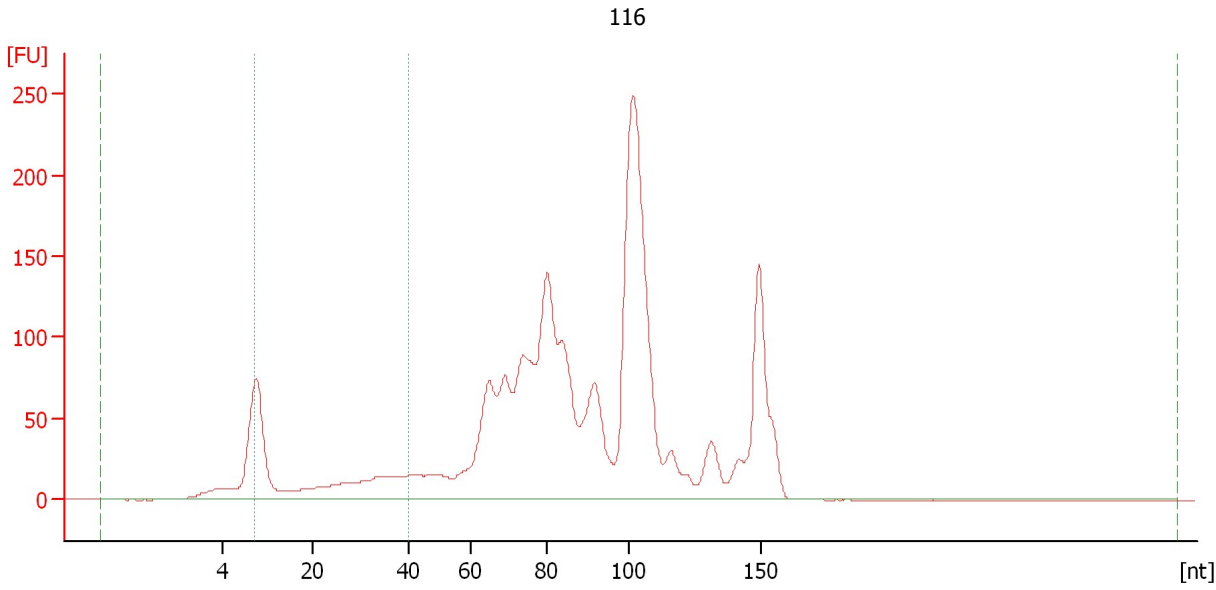
Region table for sample 3 : 101

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	314	141	51.0	58,158.1	100	
miRNA	10	40	20	52.8	8,999.9	15	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
 Modified: 9/11/2017 11:08:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 116

Small RNA Concentration [pg/μl]: 21,611.5
 miRNA Concentration [pg/μl]: 4,684.9
 miRNA / Small RNA Ratio [%]: 22

Result Flagging Color: ████████
 Result Flagging Label: 22 % miRNA;
 Concentration: 4684.90 pg/μl

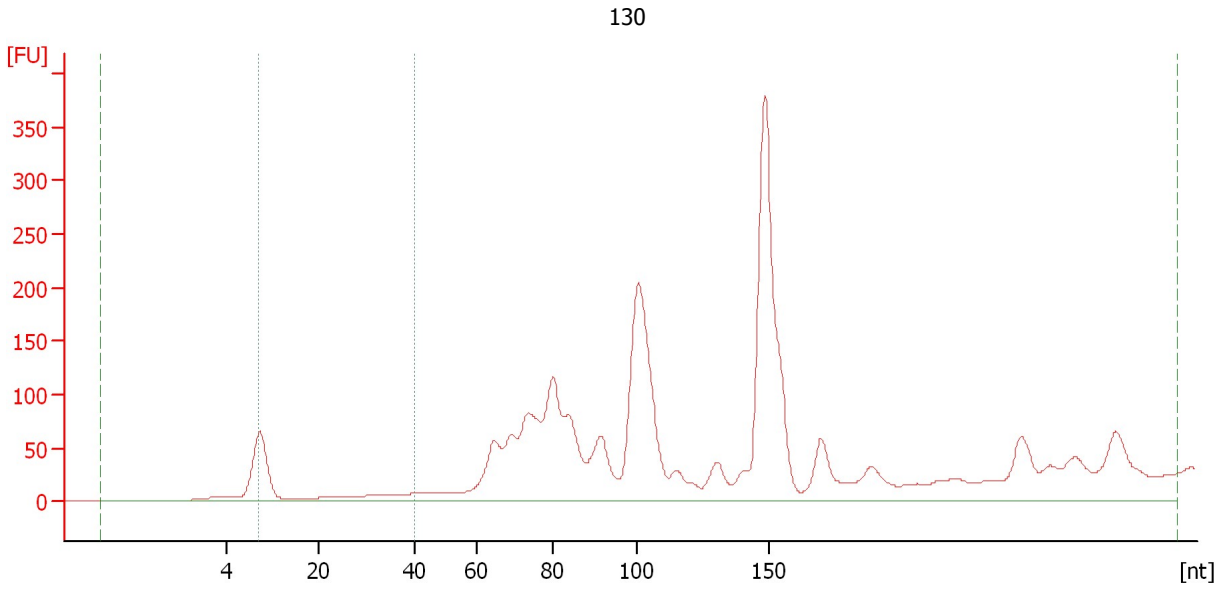
Region table for sample 4 : 116

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	307	87	41.2	21,611.5	100	████
miRNA	10	40	21	50.1	4,684.9	22	████

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
 Modified: 9/11/2017 11:08:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 130

Small RNA Concentration [pg/μl]: 36,602.9
 miRNA Concentration [pg/μl]: 4,633.1
 miRNA / Small RNA Ratio [%]: 13

Result Flagging Color:
 Result Flagging Label: 13 % miRNA;
 Concentration: 4633.10 pg/μl

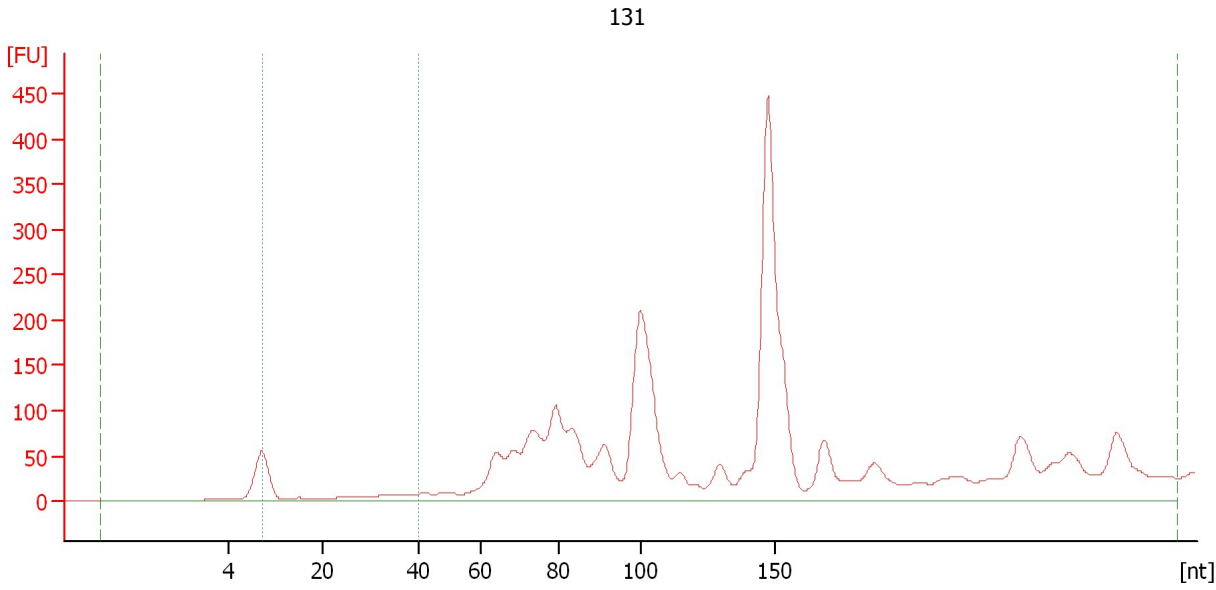
Region table for sample 5 : 130

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	303	142	52.0	36,602.9	100	
miRNA	10	40	19	55.6	4,633.1	13	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
 Modified: 9/11/2017 11:08:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 131

Small RNA Concentration [pg/μl]:	65,874.3	Result Flagging Color:	
miRNA Concentration [pg/μl]:	6,846.2	Result Flagging Label:	10 % miRNA; Concentration: 6846.20 pg/μl
miRNA / Small RNA Ratio [%]:	10		

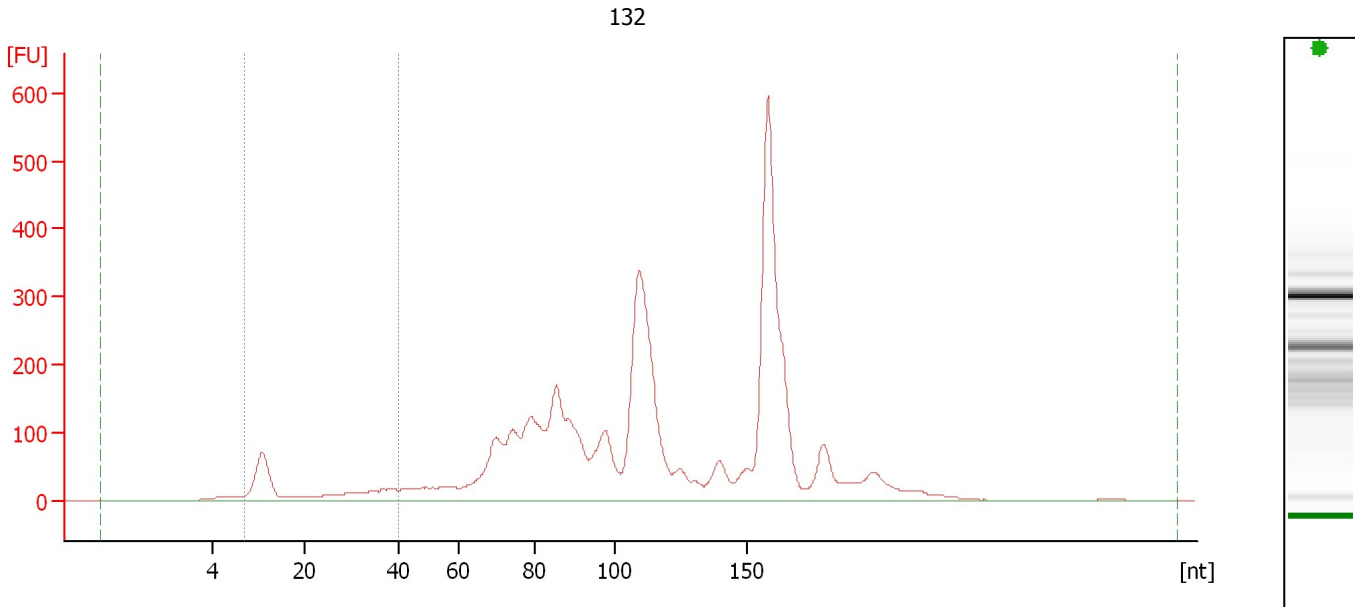
Region table for sample 6 : 131

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	300	147	49.2	65,874.3	100	
miRNA	10	40	20	53.5	6,846.2	10	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
 Modified: 9/11/2017 11:08:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 132

Small RNA Concentration [pg/μl]:	80,929.9	Result Flagging Color:	
miRNA Concentration [pg/μl]:	13,427.4	Result Flagging Label:	17 % miRNA; Concentration: 13427.40 pg/μl
miRNA / Small RNA Ratio [%]:	17		

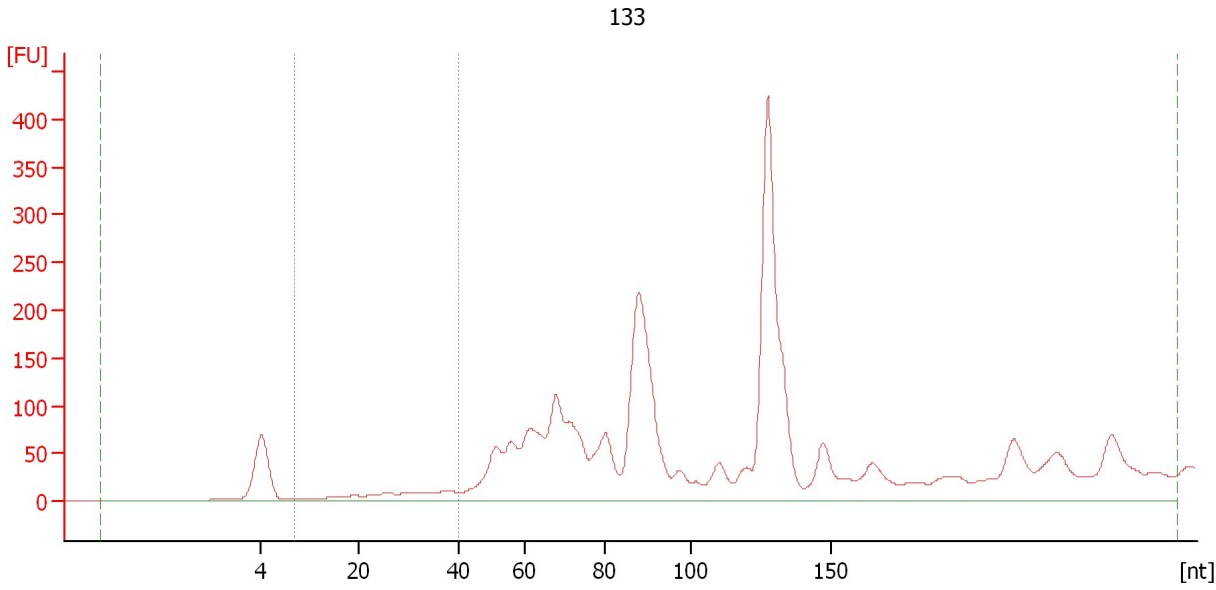
Region table for sample 7 : 132

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	314	118	40.7	80,929.9	100	
miRNA	10	40	21	46.9	13,427.4	17	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
 Modified: 9/11/2017 11:08:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 133

Small RNA Concentration [pg/μl]: 4,720.8
 miRNA Concentration [pg/μl]: 404.5
 miRNA / Small RNA Ratio [%]: 9

Result Flagging Color:
 Result Flagging Label: 9 % miRNA;
 Concentration: 404.50
 pg/μl

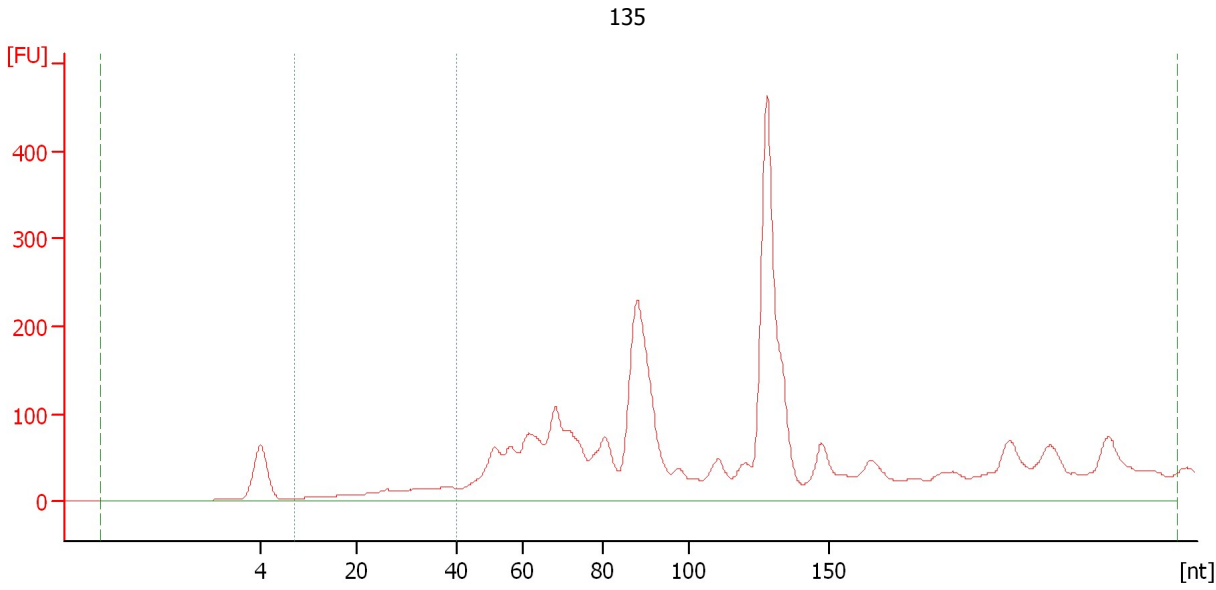
Region table for sample 8 : 133

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	274	126	53.5	4,720.8	100	
miRNA	10	40	27	30.0	404.5	9	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
 Modified: 9/11/2017 11:08:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 135

Small RNA Concentration [pg/μl]: 5,882.7
 miRNA Concentration [pg/μl]: 672.2
 miRNA / Small RNA Ratio [%]: 11

Result Flagging Color:
 Result Flagging Label: 11 % miRNA;
 Concentration: 672.20
 pg/μl

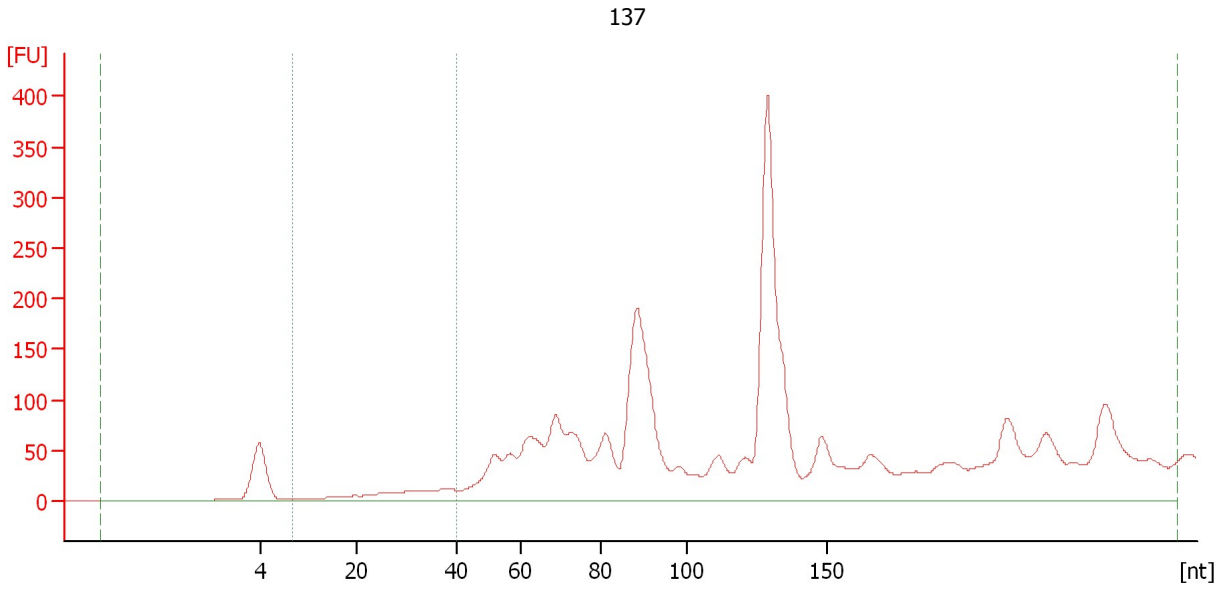
Region table for sample 9 : 135

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	275	128	53.0	5,882.7	100	
miRNA	10	40	28	29.9	672.2	11	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
 Modified: 9/11/2017 11:08:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 137

Small RNA Concentration [pg/μl]: 5,815.3
 miRNA Concentration [pg/μl]: 497.3
 miRNA / Small RNA Ratio [%]: 9

Result Flagging Color:
 Result Flagging Label: 9 % miRNA;
 Concentration: 497.30
 pg/μl

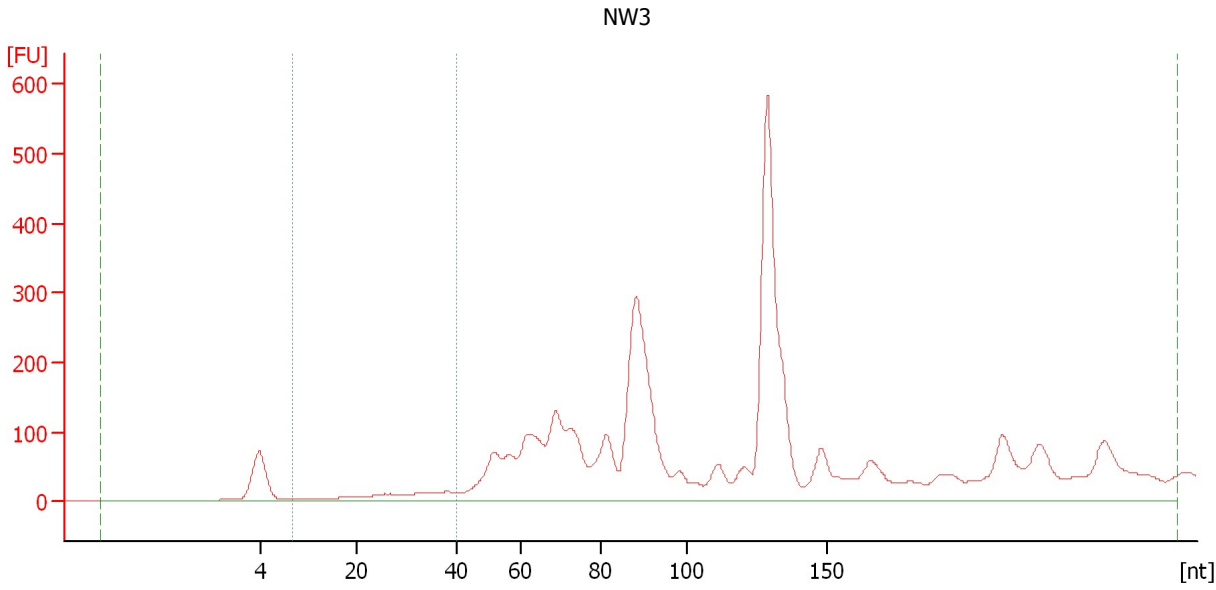
Region table for sample 10 : 137

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	275	138	50.4	5,815.3	100	
miRNA	10	40	28	28.7	497.3	9	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
 Modified: 9/11/2017 11:08:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : NW3

Small RNA Concentration [pg/μl]:	5,987.3	Result Flagging Color:	
miRNA Concentration [pg/μl]:	454.2	Result Flagging Label:	8 % miRNA; Concentration: 454.20 pg/μl
miRNA / Small RNA Ratio [%]:	8		

Region table for sample 11 : NW3

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	275	129	51.3	5,987.3	100	
miRNA	10	40	28	29.0	454.2	8	

Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-11\2017-09-11_001.xad

Created: 9/11/2017 10:36:30 AM
Modified: 9/11/2017 11:08:32 AM

Gel Image

