

Anexo 1

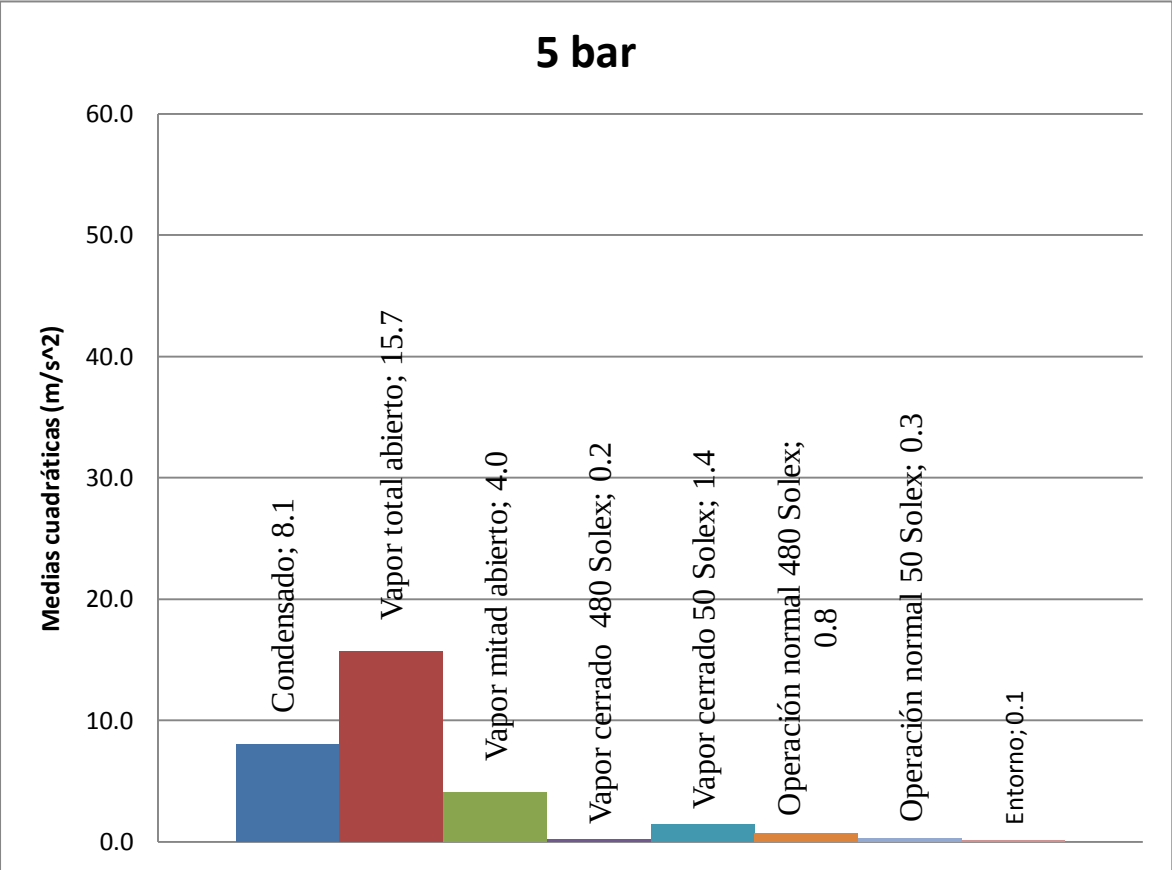
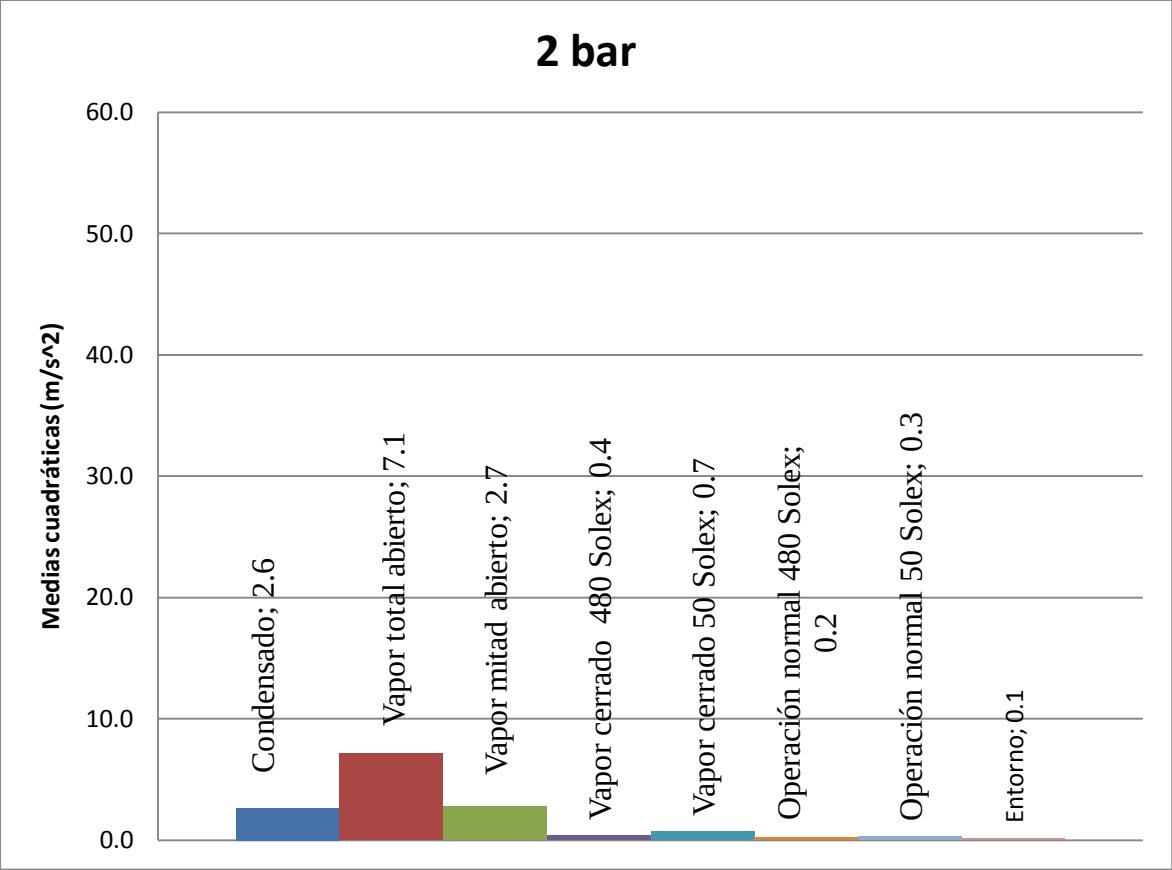
Gráficas de las medias cuadráticas.

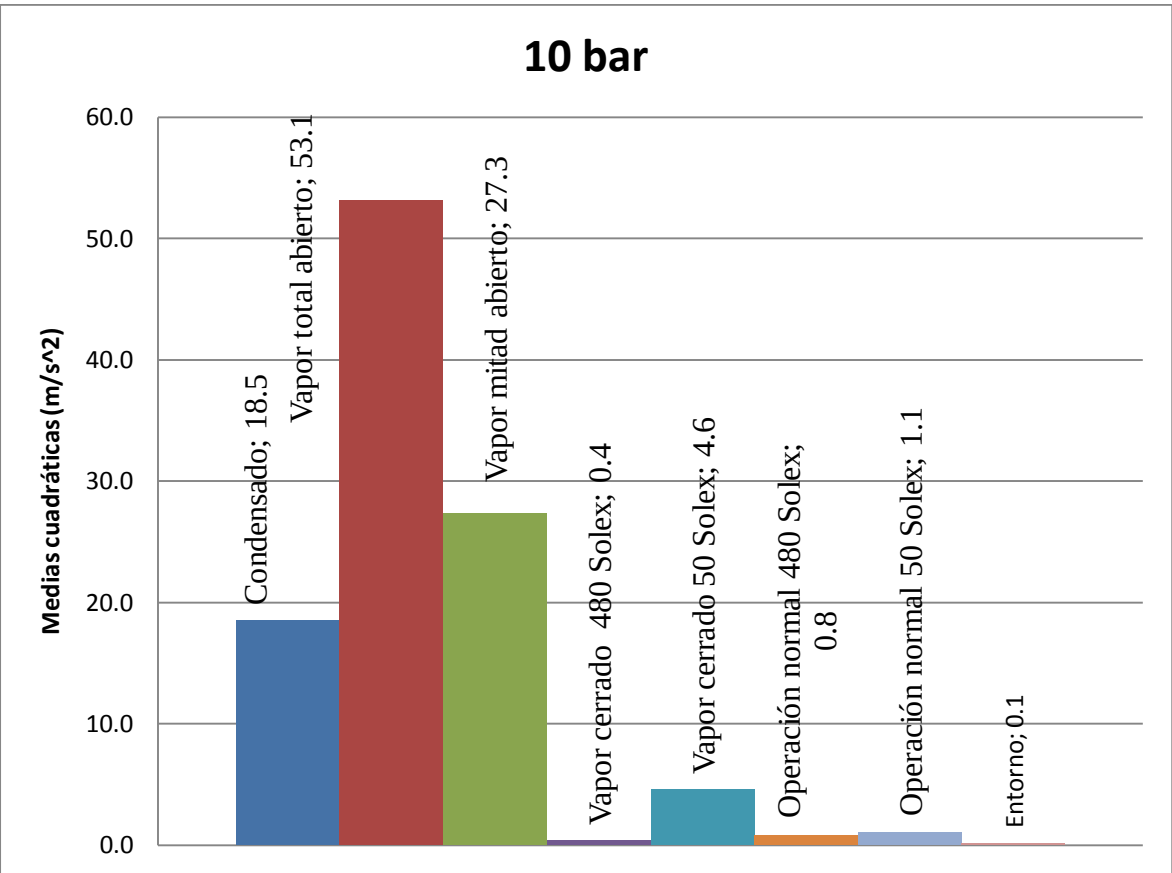
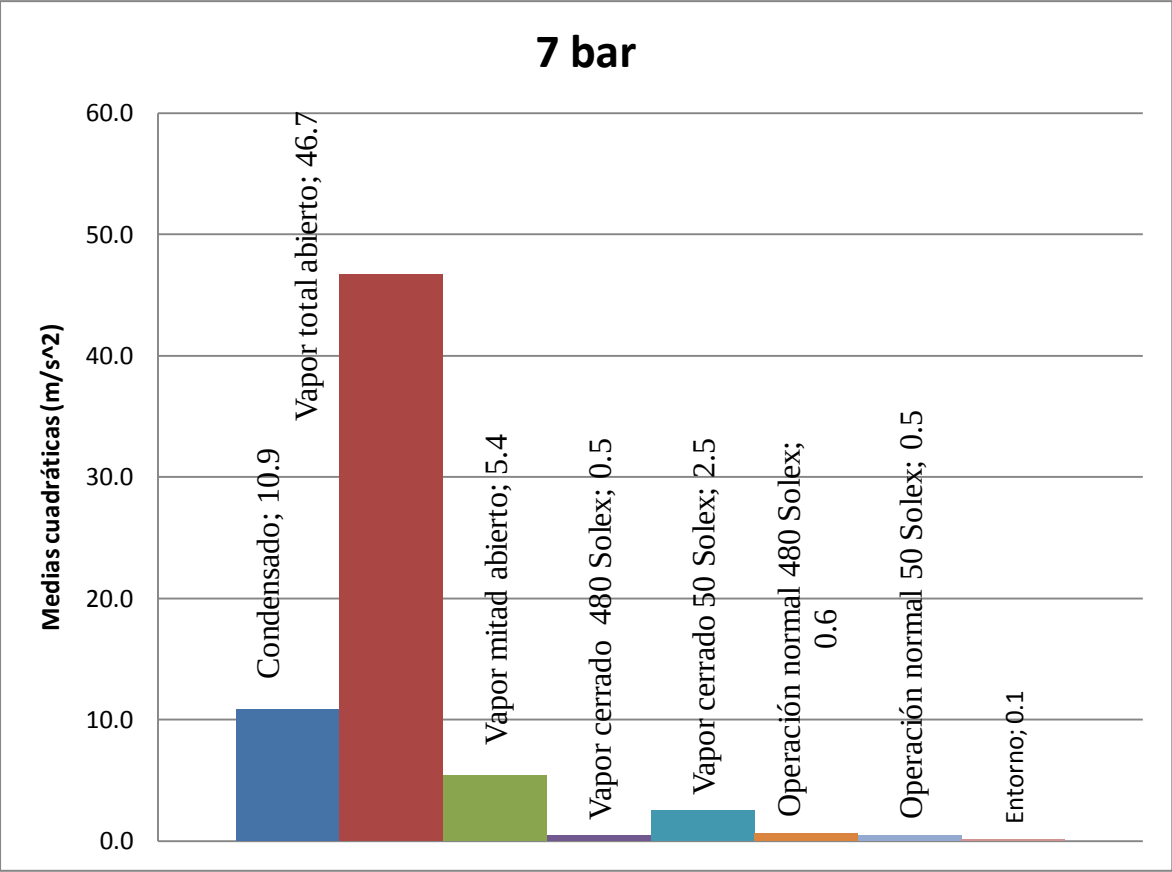
	Condensado	Vapor total abierto	Vapor mitad abierto	Vapor cerrado 480 So-lex	Vapor cerrado 50 Solex	Operación normal 480 Solex	Operación normal 50 Solex	Entorno
2 bar	2.3	6.5	2.8	0.8	0.6	0.2	0.2	0.1
	3.2	7.7	2.8	0.4	0.6	0.2	0.4	0.1
	2.5	7.1	2.6	0.3	0.7	0.2	0.5	
	3.5			0.2	1.2	0.4	0.1	
	2.4				0.6	0.2	0.2	
	2.3				0.5	0.2		
	2.3				0.5			
					0.8			
Media 2 bar	2.6	7.1	2.7	0.4	0.7	0.2	0.3	0.1

	Condensado	Vapor total abierto	Vapor mitad abierto	Vapor cerrado 480 Solex	Vapor cerrado 50 Solex	Operación normal 480 Solex	Operación normal 50 Solex	Entorno
5 bar	6.5	16.4	4.3	0.2	1.5	0.6	0.2	0.1
	11.3	14.9	4.1	0.2	1.4	0.9	0.4	0.1
	6.5		3.7	0.3	1.4	0.6	0.3	
				0.2	1.5	0.8	0.2	
					1.4	0.8	0.2	
					1.4	0.8		
Media 5 bar	8.1	15.7	4.0	0.2	1.4	0.8	0.3	0.1

	Condensado	Vapor total abierto	Vapor mitad abierto	Vapor cerrado 480 Solex	Vapor cerrado 50 Solex	Operación normal 480 Solex	Operación normal 50 Solex	Entorno
7 bar	10.8	38.4	4.9	0.2	3.1	0.6	0.5	0.1
	11.1	51.1	5.8	0.2	4.0	0.5	0.4	0.1
	10.0	50.7		1.0	2.8	0.2	0.4	
	11.5			0.5	2.5	0.2	0.8	
					1.9	1.6	0.5	
					0.8		0.3	
Media 7 bar	10.9	46.7	5.4	0.5	2.5	0.6	0.5	0.1

	Condensado	Vapor total abierto	Vapor mitad abierto	Vapor cerrado 480 Solex	Vapor cerrado 50 Solex	Operación normal 480 Solex	Operación normal 50 Solex	Entorno
10 bar	18.5	52.6	25.3	0.3	5.2	0.5	0.9	0.1
		54.0	28.6	1.1	3.5	2.0	0.8	0.1
		52.7	28.0	0.4	4.1	0.5	1.6	
			27.1	0.3	4.9	0.5	1.2	
				0.2	4.5	0.5	1.2	
				0.3	4.7	0.7	1.0	
				0.3	4.5		1.1	
				0.2	5.1		0.9	
				0.2			1.0	
							1.0	
							1.2	
Media 10 bar	18.5	53.1	27.3	0.4	4.6	0.8	1.1	0.1





Anexo 2

Espectros de frecuencias según el método STFT.

2 bar

(m/s²)

Condensado

2

1.5

1

0.5

0

Vapor total abierto

2

1.5

1

0.5

0

Vapor mitad abierto

2

1.5

1

0.5

0

0

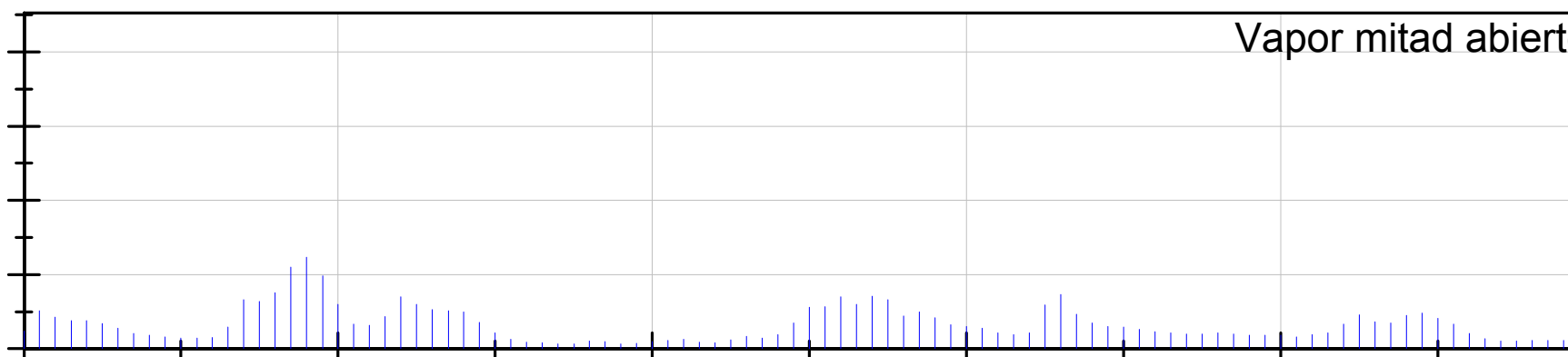
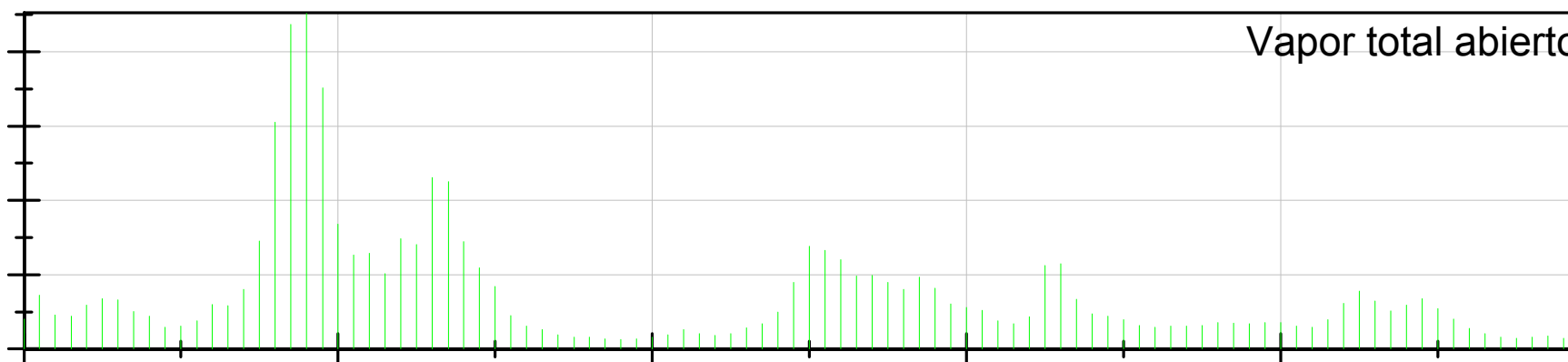
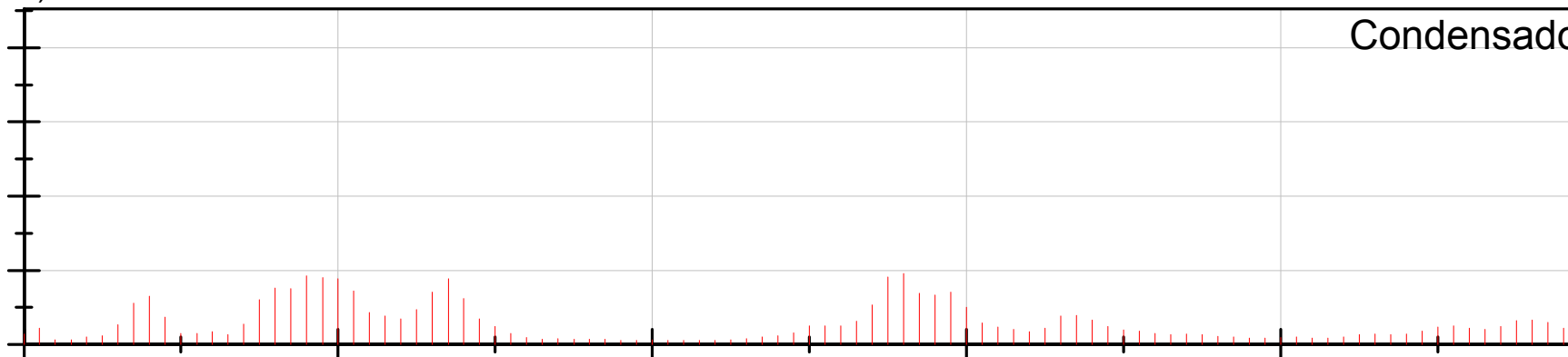
20000

40000

60000

80000

Hz



2 bar

(m/s²)

0.125
0.1
0.075
0.05
0.025

Vapor cerrado 480 Solex

0.125
0.1
0.075
0.05
0.025

Vapor cerrado 50 Solex

0.125
0.1
0.075
0.05
0.025

Op. normal 480 Solex

0.125
0.1
0.075
0.05
0.025

Op. normal 50 Solex

0.125
0.1
0.075
0.05
0.025

Entorno

0

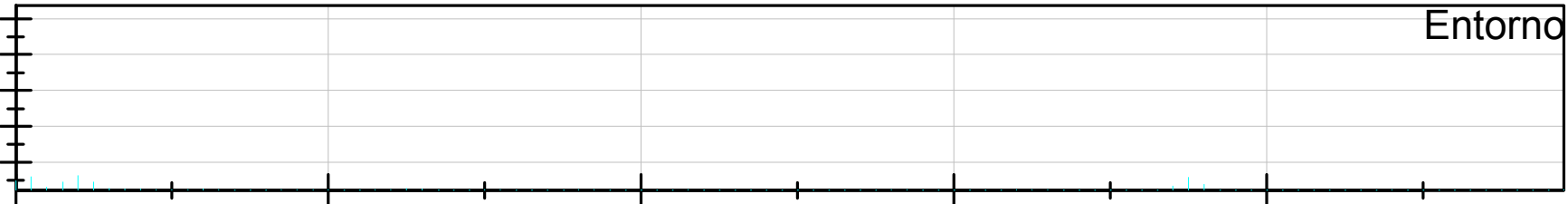
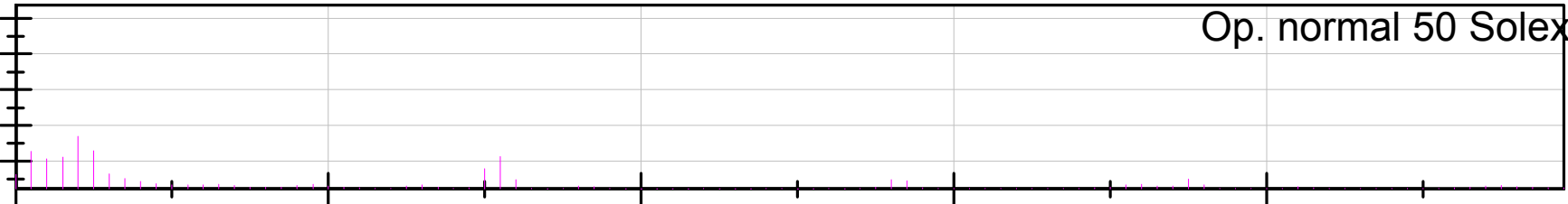
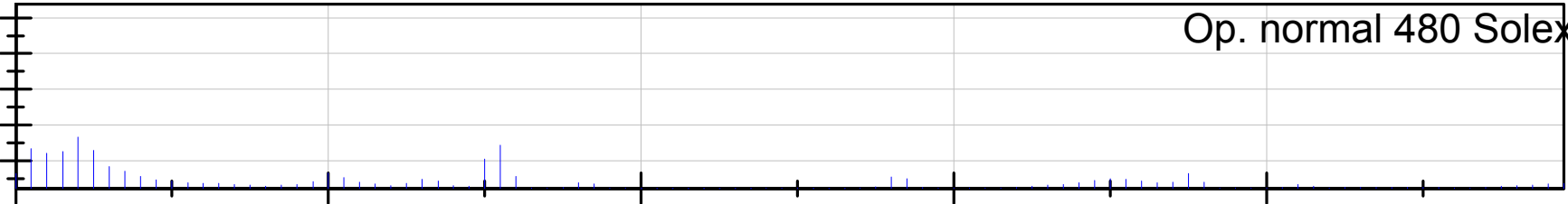
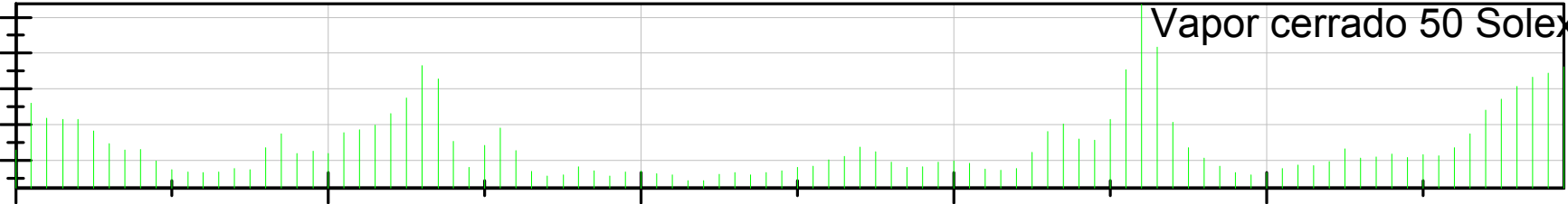
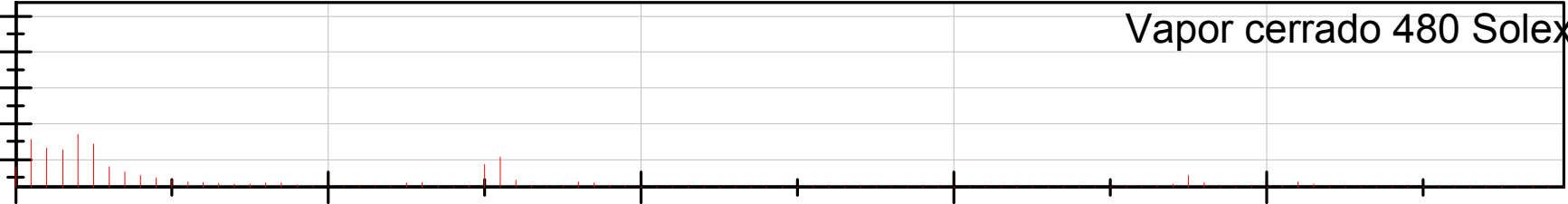
20000

40000

60000

80000

Hz



2 bar

Vapor cerrado 480 Solex

(m/s²)

0.05
0.04
0.03
0.02
0.01
0

0.15
0.125
0.1
0.075
0.05
0.025
0

Vapor cerrado 50 Solex

0.05
0.04
0.03
0.02
0.01
0

Op. normal 480 Solex

0.05
0.04
0.03
0.02
0.01
0

Op. normal 50 Solex

0.02
0.015
0.01
0.005
0

Entorno

0

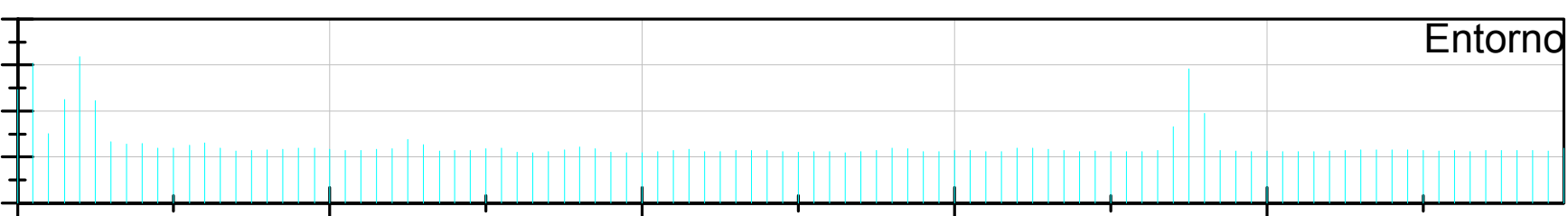
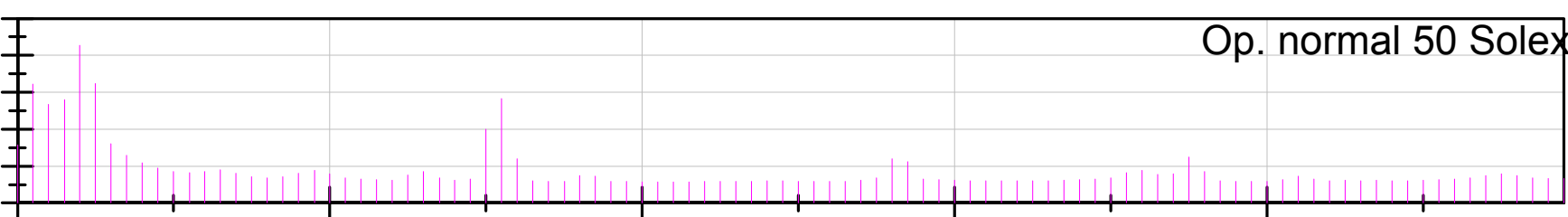
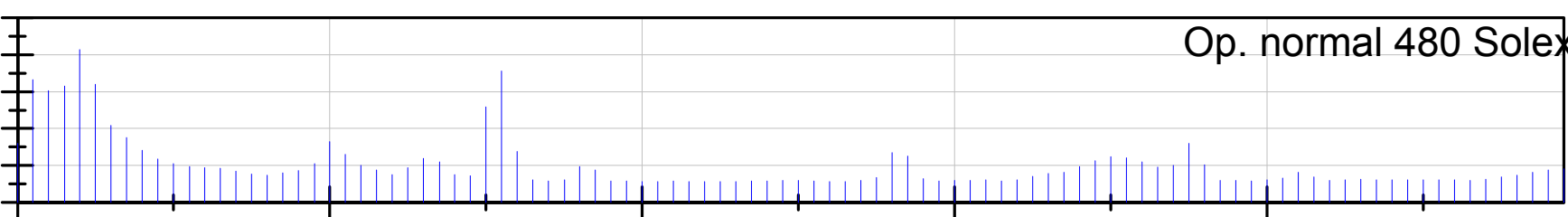
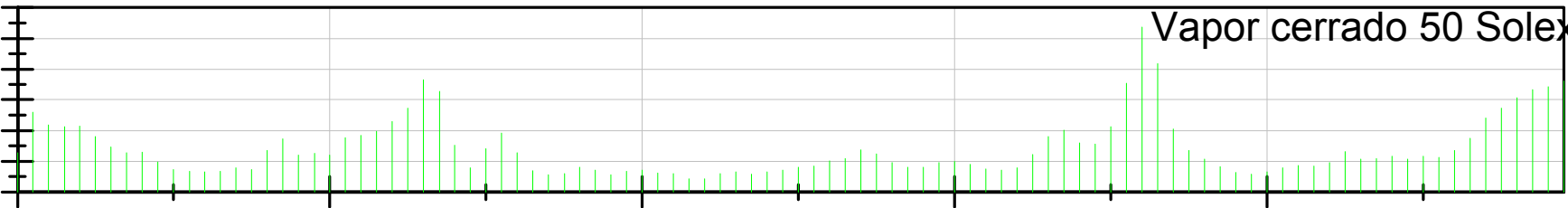
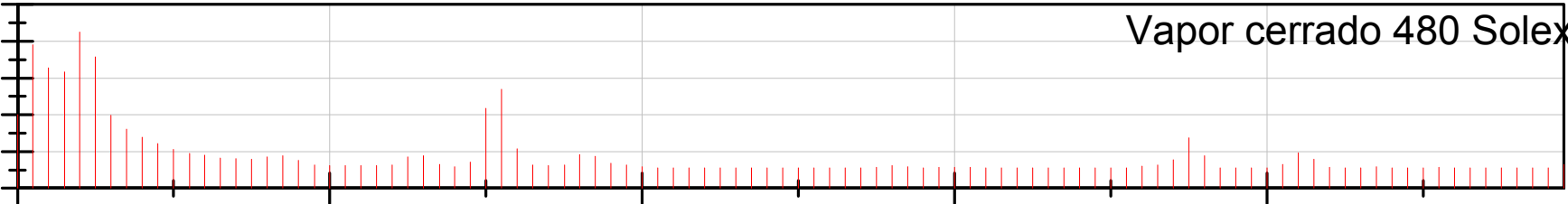
20000

40000

60000

80000

Hz



5 bar

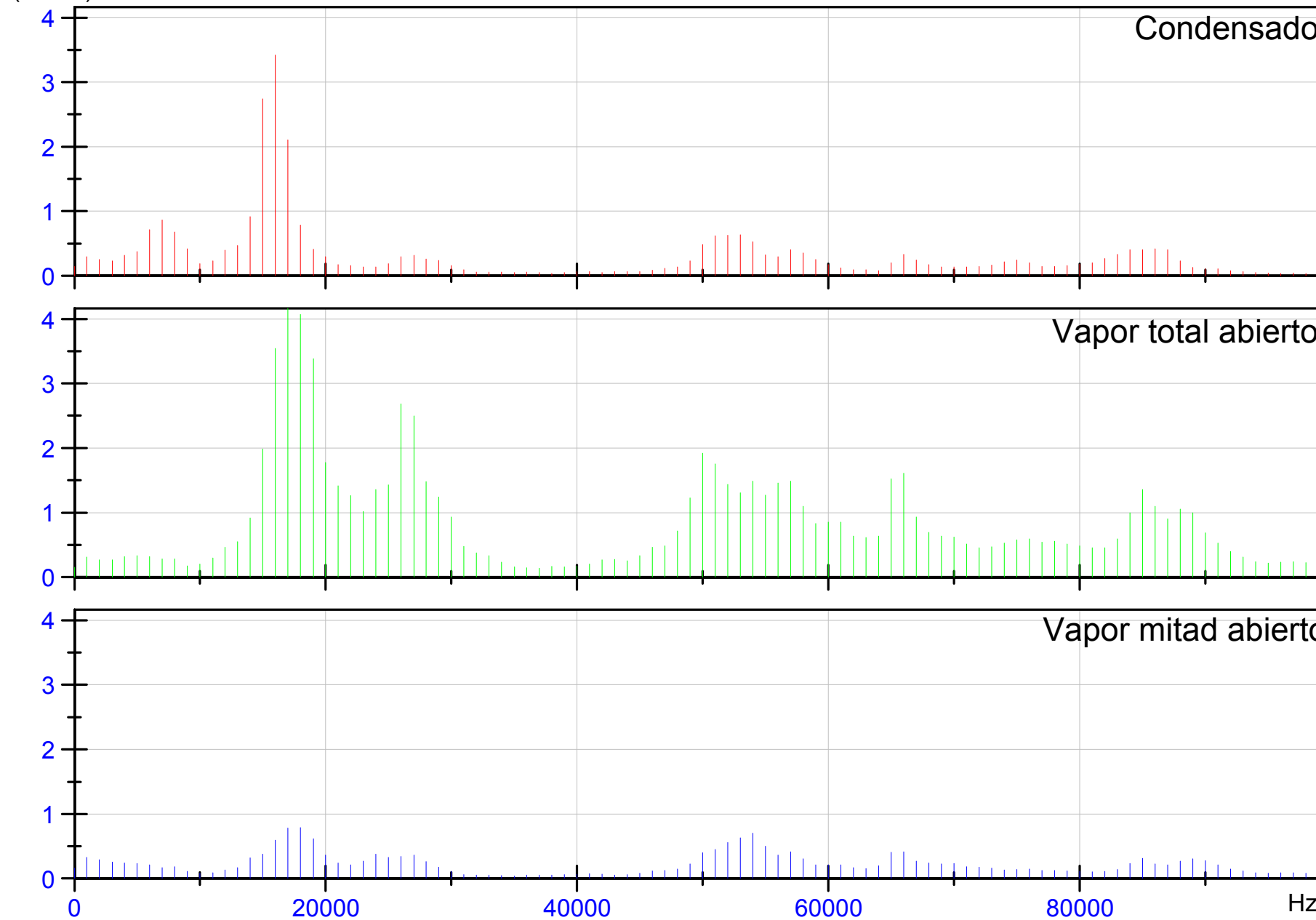
(m/s²)

Condensado

Vapor total abierto

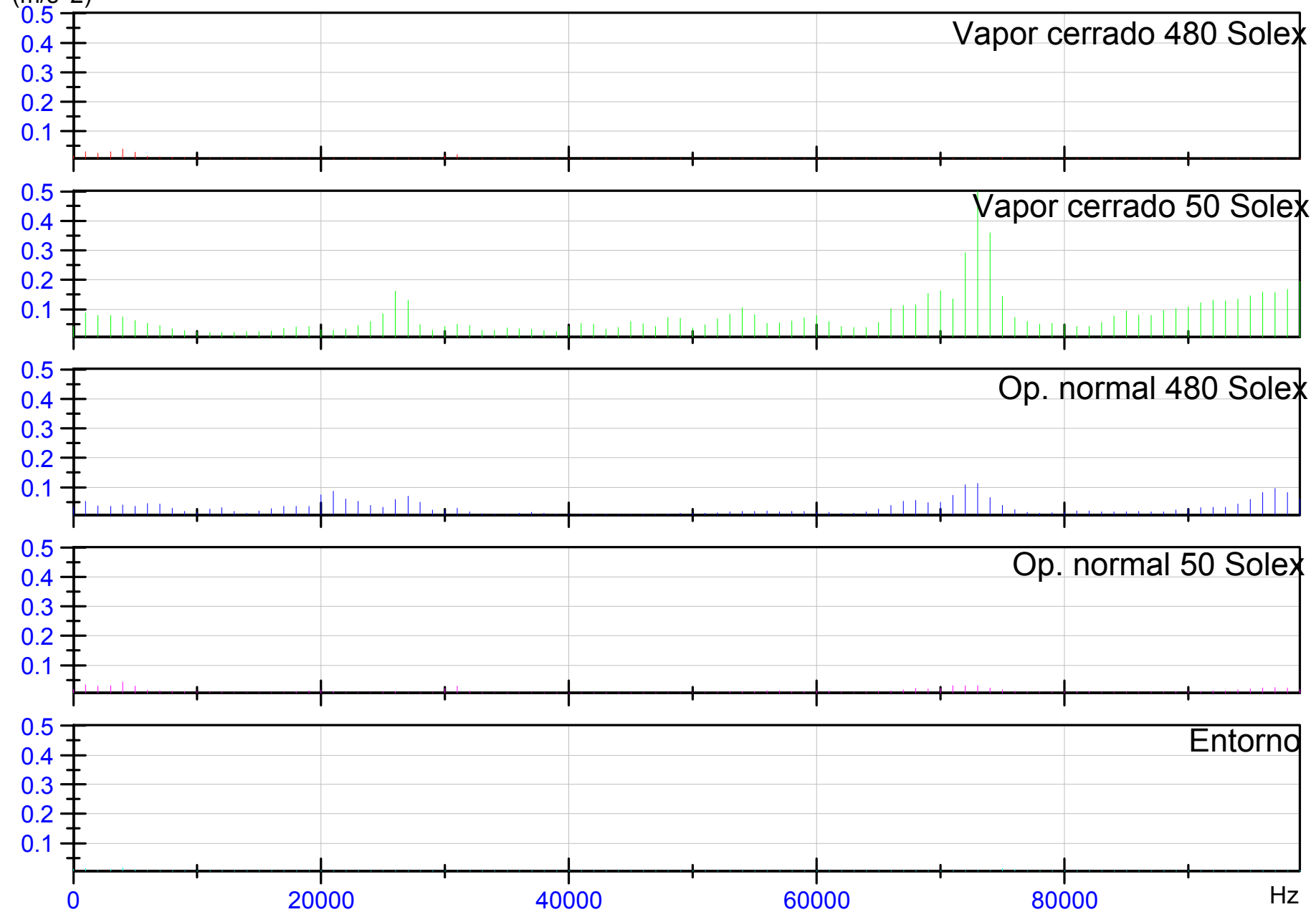
Vapor mitad abierto

Hz



5 bar

(m/s²)



5 bar

Vapor cerrado 480 Solex

(m/s²)

0.04
0.03
0.02
0.01
0

0.6
0.5
0.4
0.3
0.2
0.1
0

0.125
0.1
0.075
0.05
0.025
0

0.05
0.04
0.03
0.02
0.01
0

0.02
0.015
0.01
0.005
0

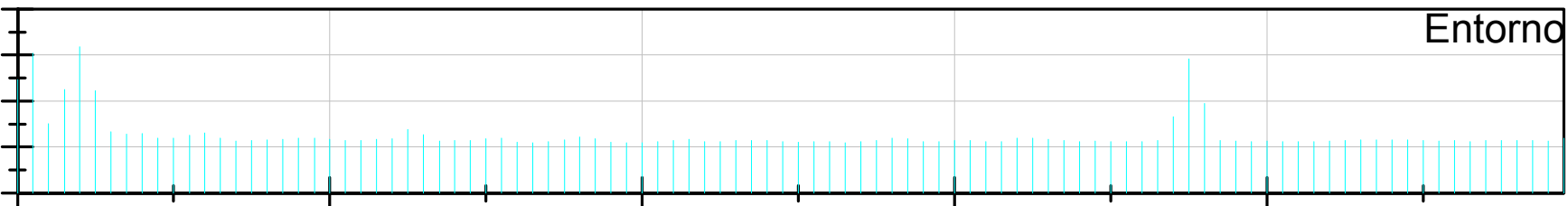
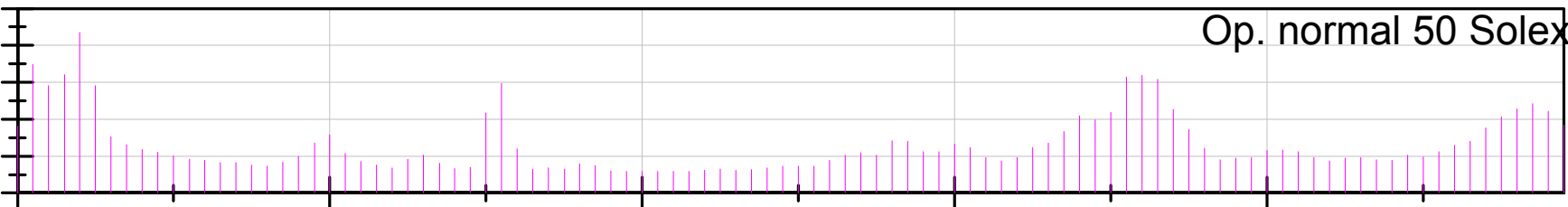
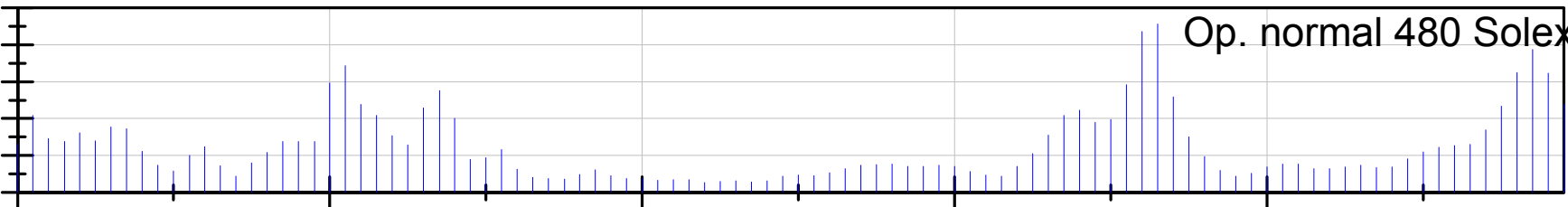
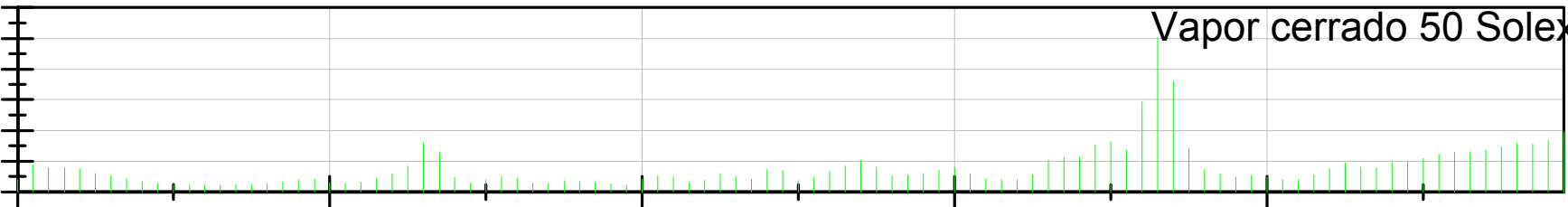
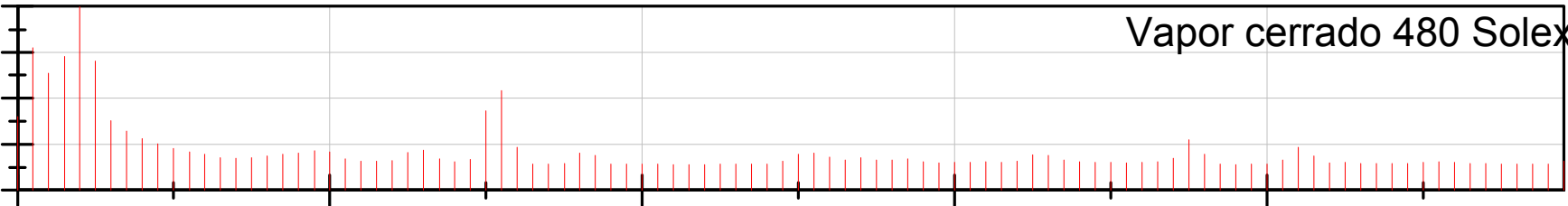
Vapor cerrado 50 Solex

Op. normal 480 Solex

Op. normal 50 Solex

Entorno

0 20000 40000 60000 80000 Hz



7 bar

(m/s²)

Condensado

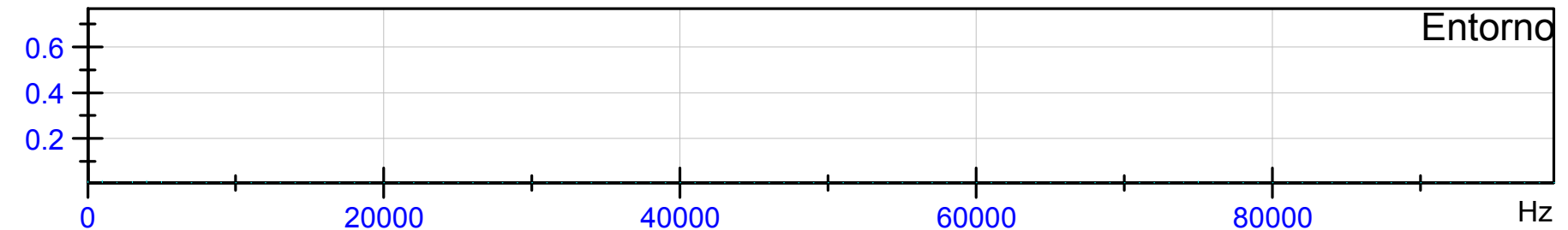
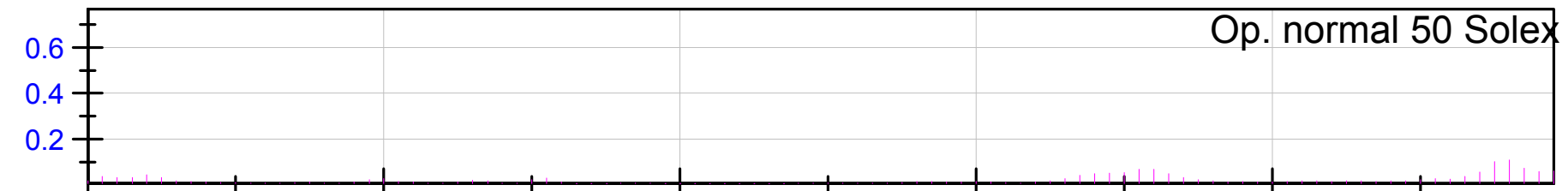
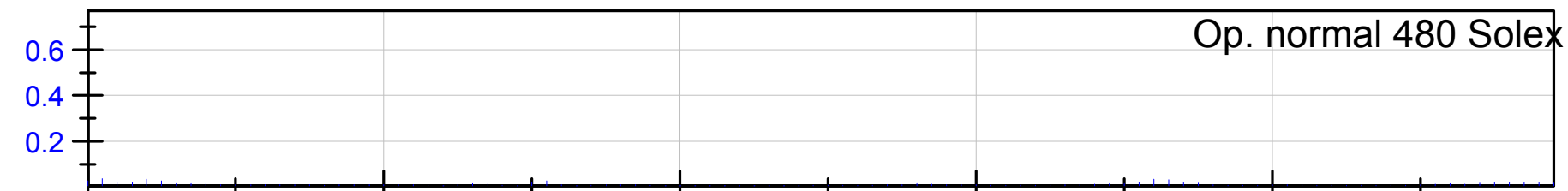
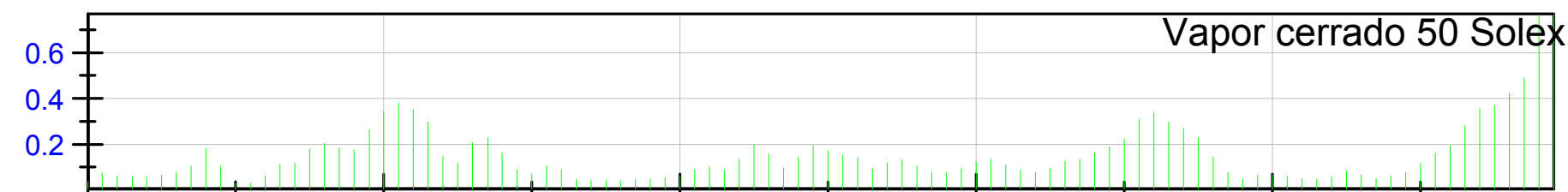
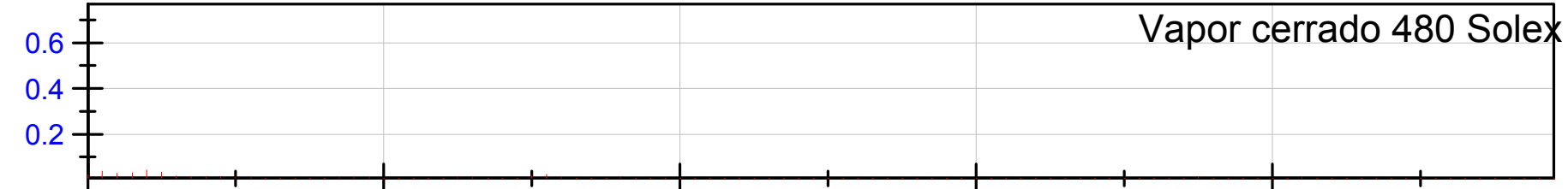
10
7.5
5
2.5
0
0 20000 40000 60000 80000 Hz

Vapor total abierto

Vapor mitad abierto

7 bar

(m/s²)



7 bar

Vapor cerrado 480 Solex

Vapor cerrado 50 Solex

Op. normal 480 Solex

Op. normal 50 Solex

Entorno

(m/s²)

0.05

0.04

0.03

0.02

0.01

0

0.8

0.6

0.4

0.2

0

0.04

0.03

0.02

0.01

0

0.125

0.1

0.075

0.05

0.025

0

0.02

0.015

0.01

0.005

0

0

20000

40000

60000

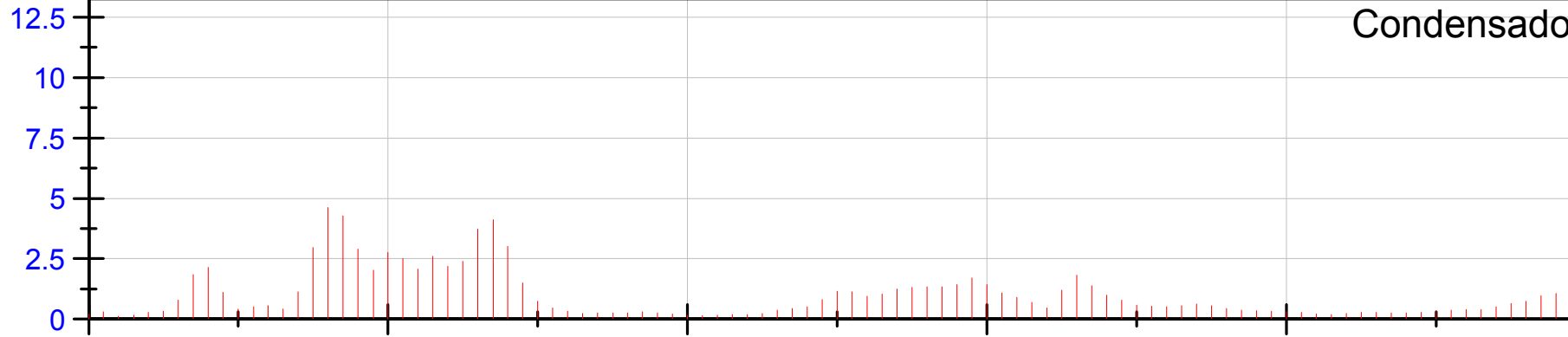
80000

Hz

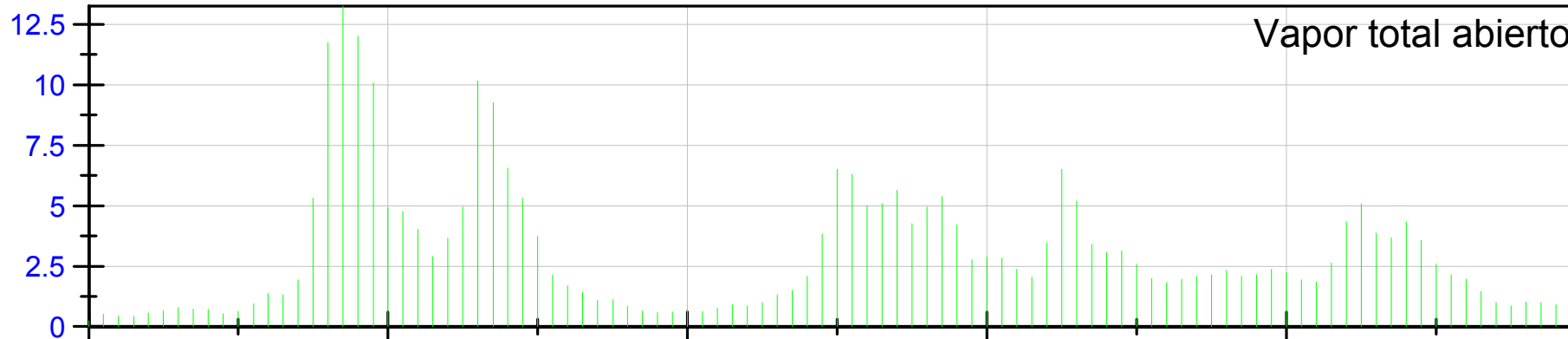
10 bar

(m/s²)

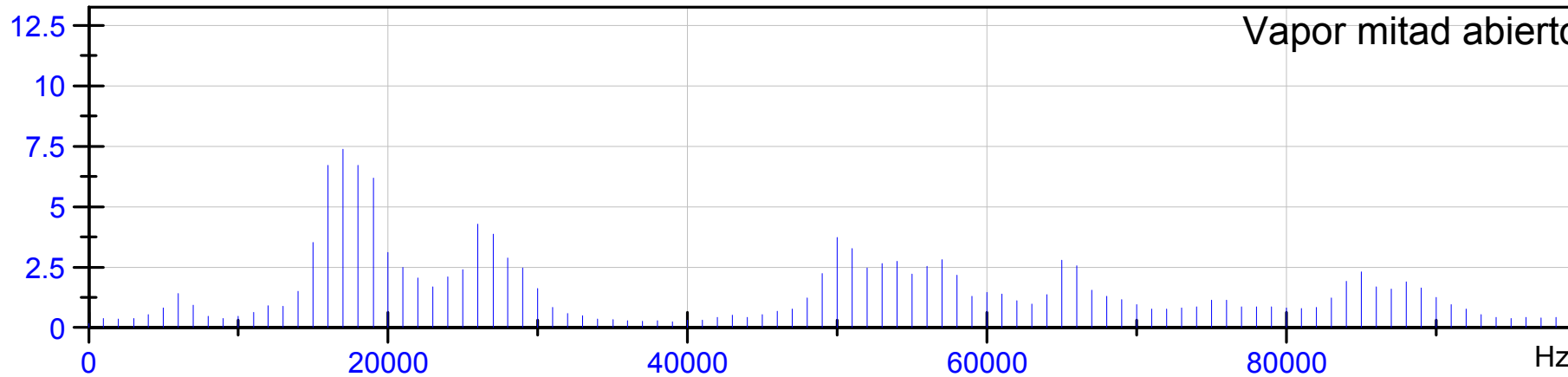
Condensado



Vapor total abierto

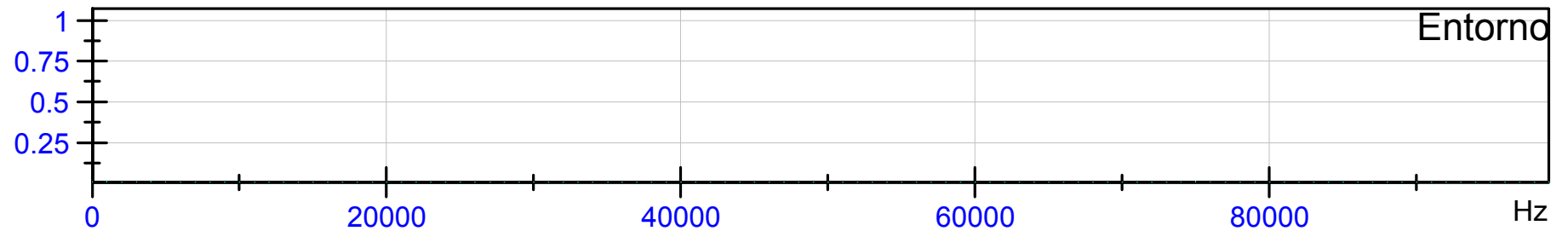
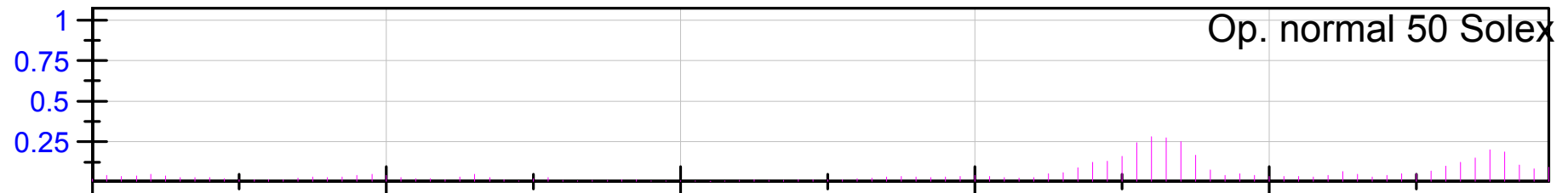
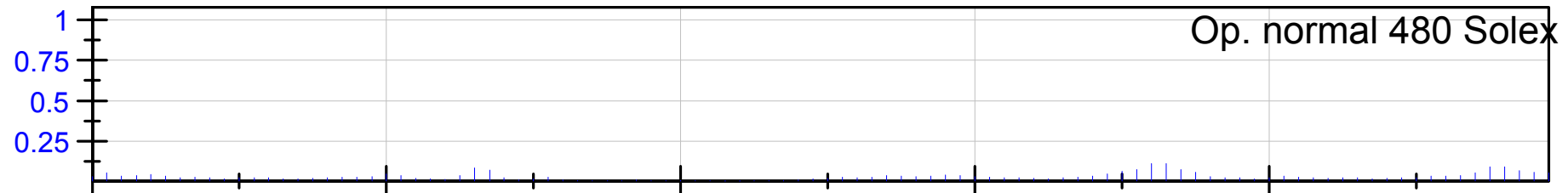
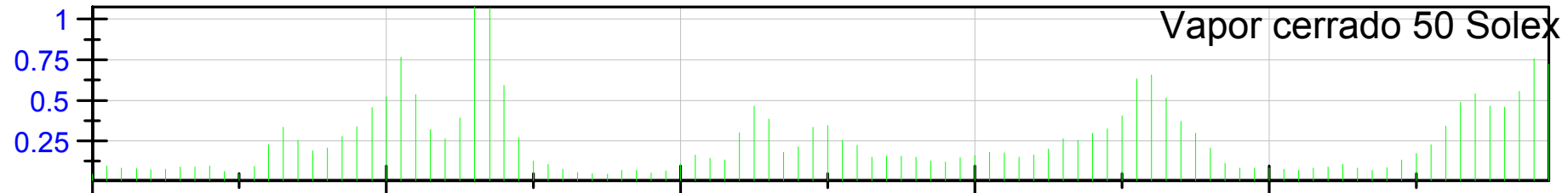
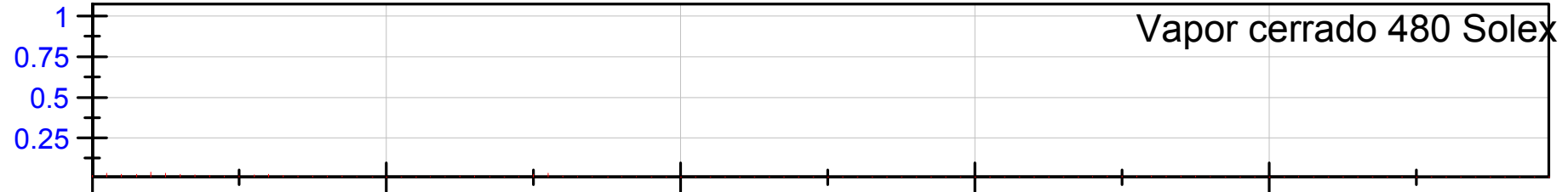


Vapor mitad abierto



10 bar

(m/s²)



10 bar

Vapor cerrado 480 Solex

Vapor cerrado 50 Solex

Op. normal 480 Solex

Op. normal 50 Solex

Entorno

(m/s²)

0.05
0.04
0.03
0.02
0.01
0

1.25
1
0.75
0.5
0.25
0

0.125
0.1
0.075
0.05
0.025
0

0.3
0.25
0.2
0.15
0.1
0.05
0

0.02
0.015
0.01
0.005
0

0

20000

40000

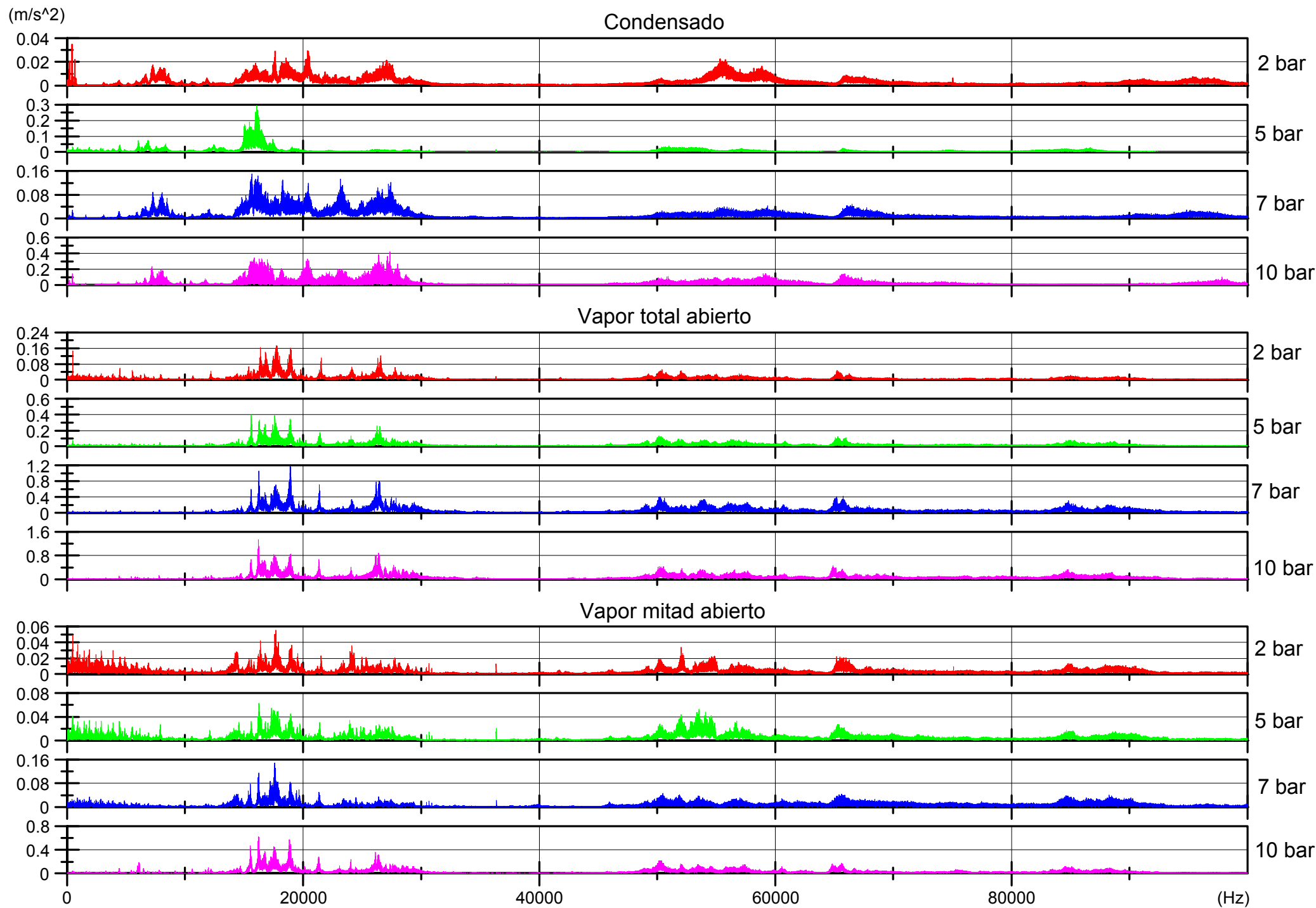
60000

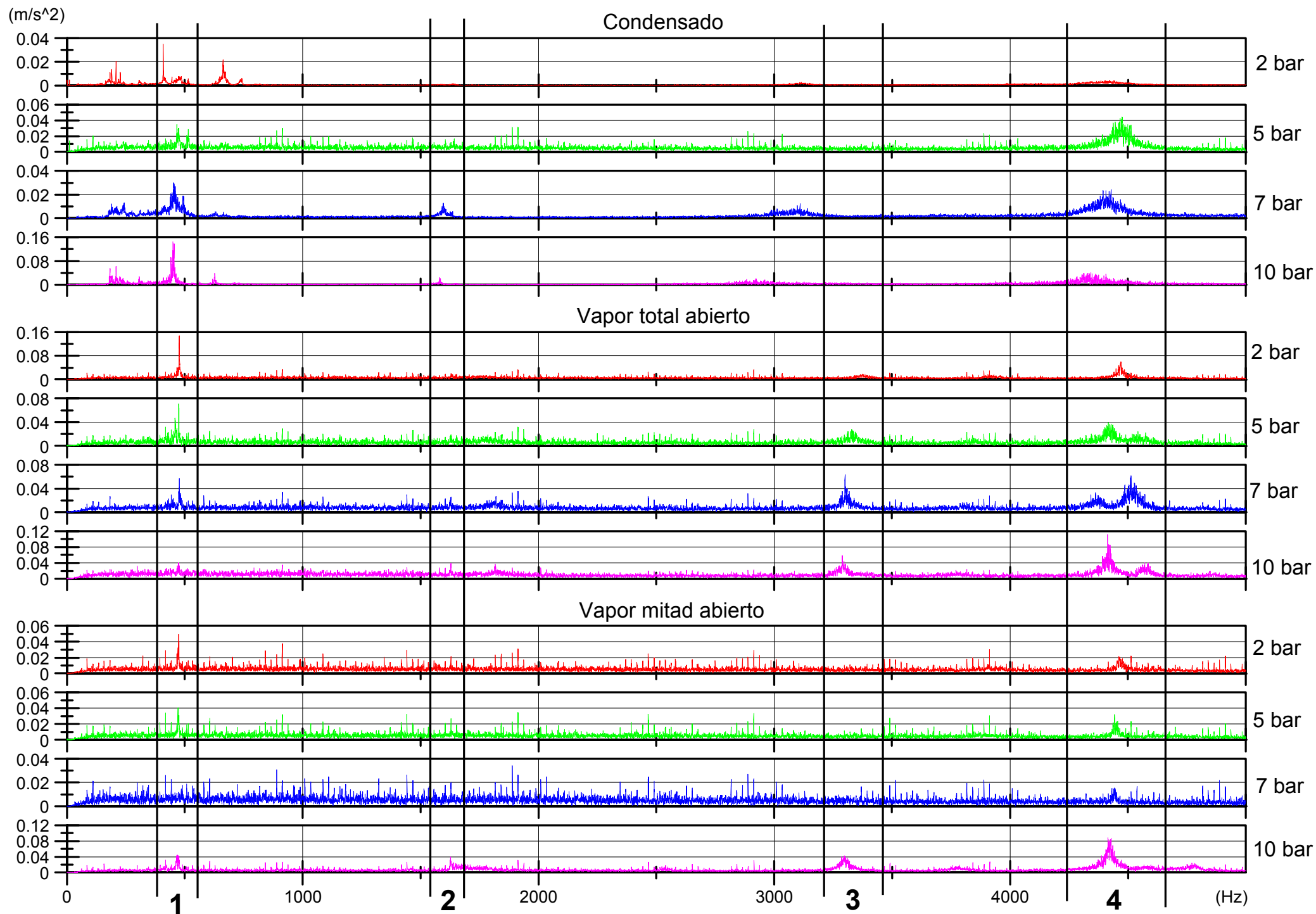
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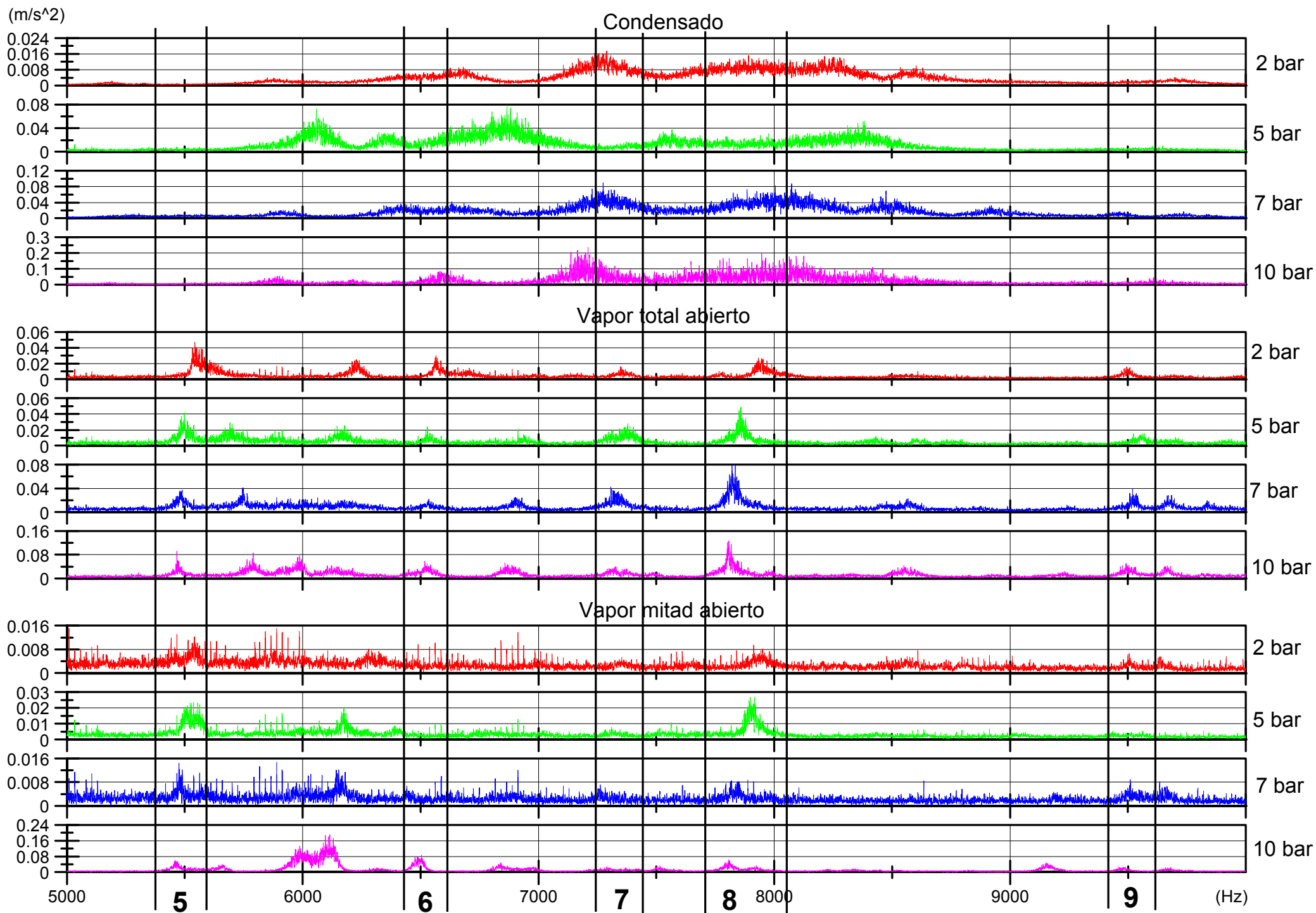
Hz

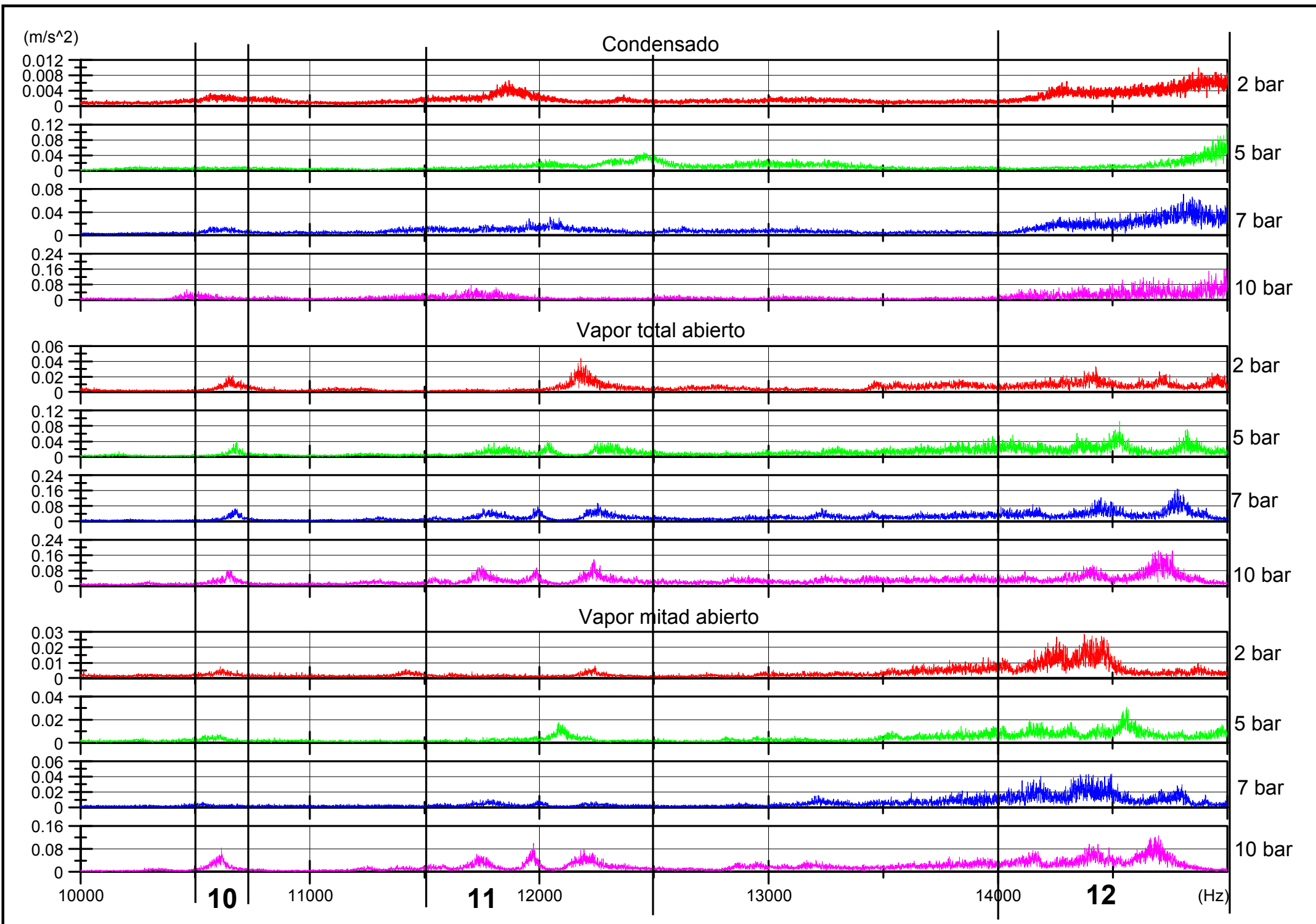
Anexo 3

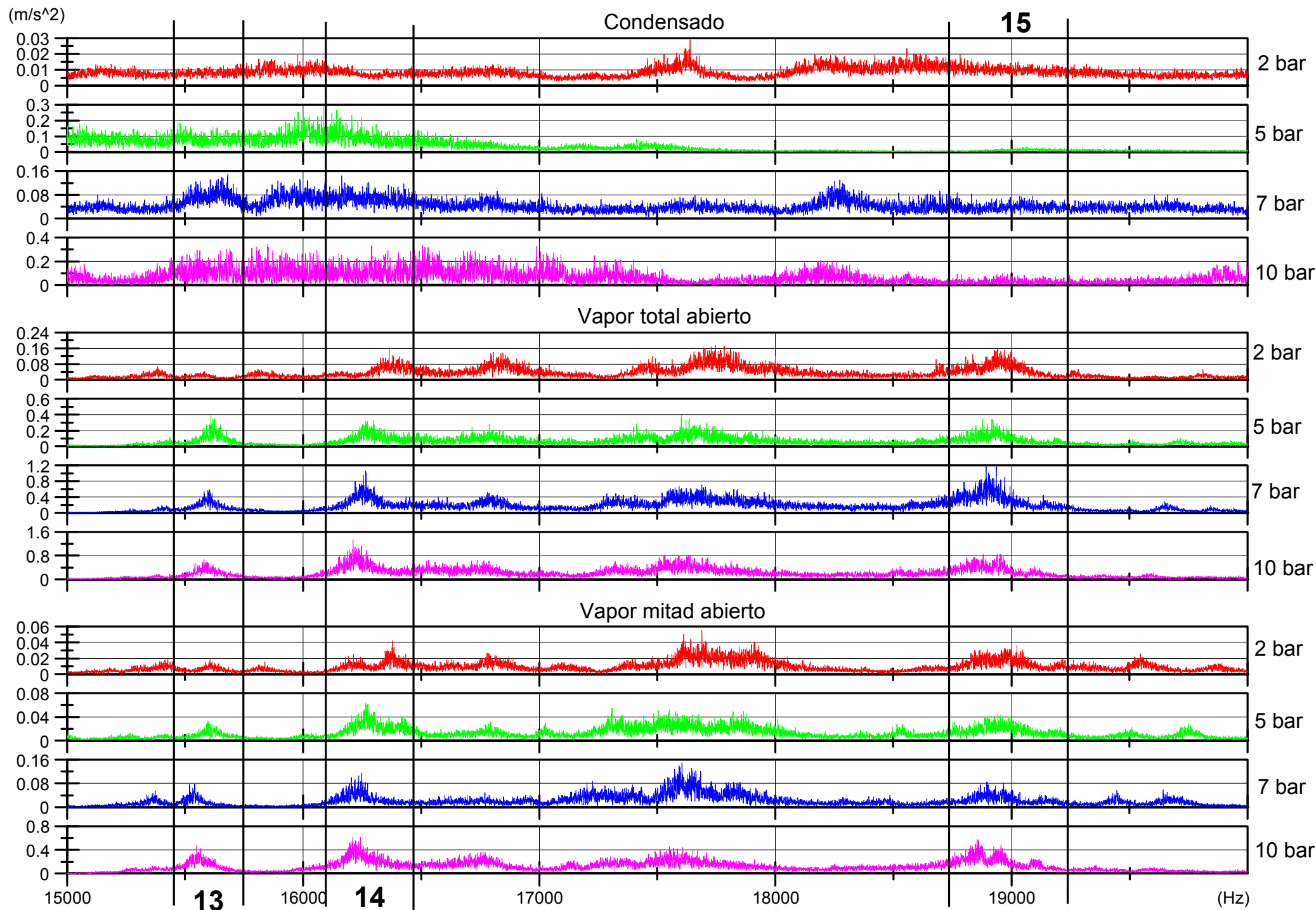
Espectros de frecuencias según el método FFT.

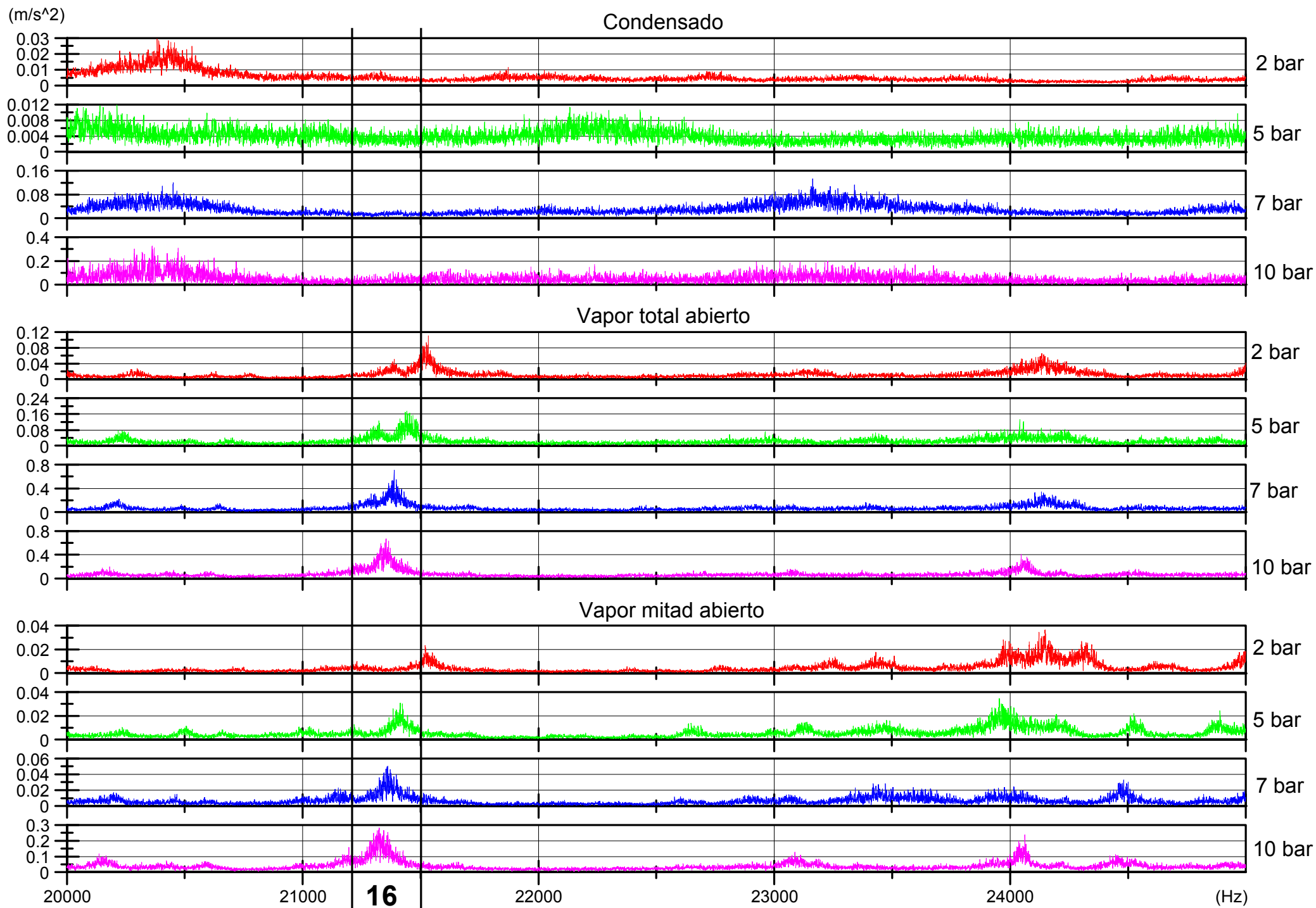


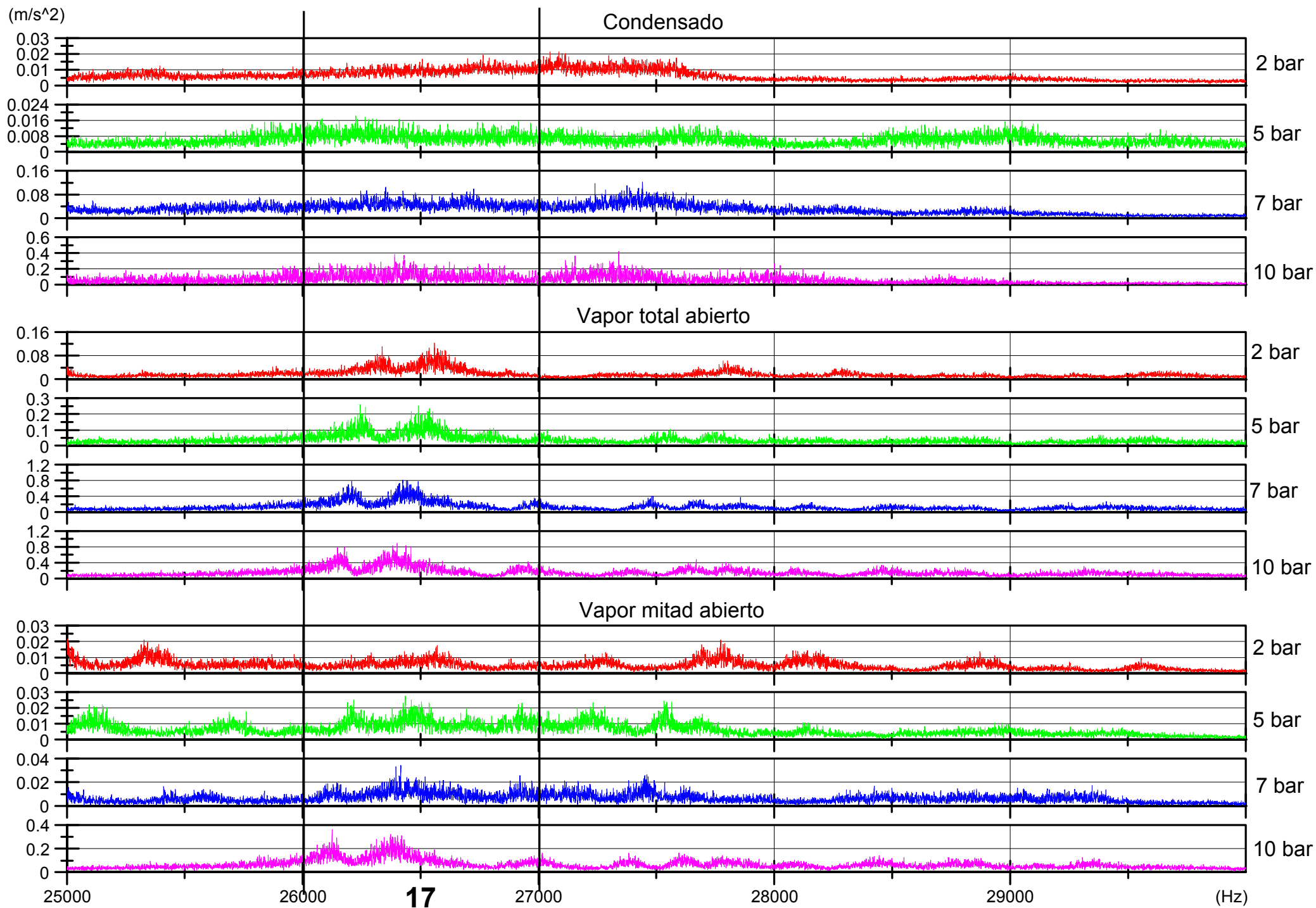


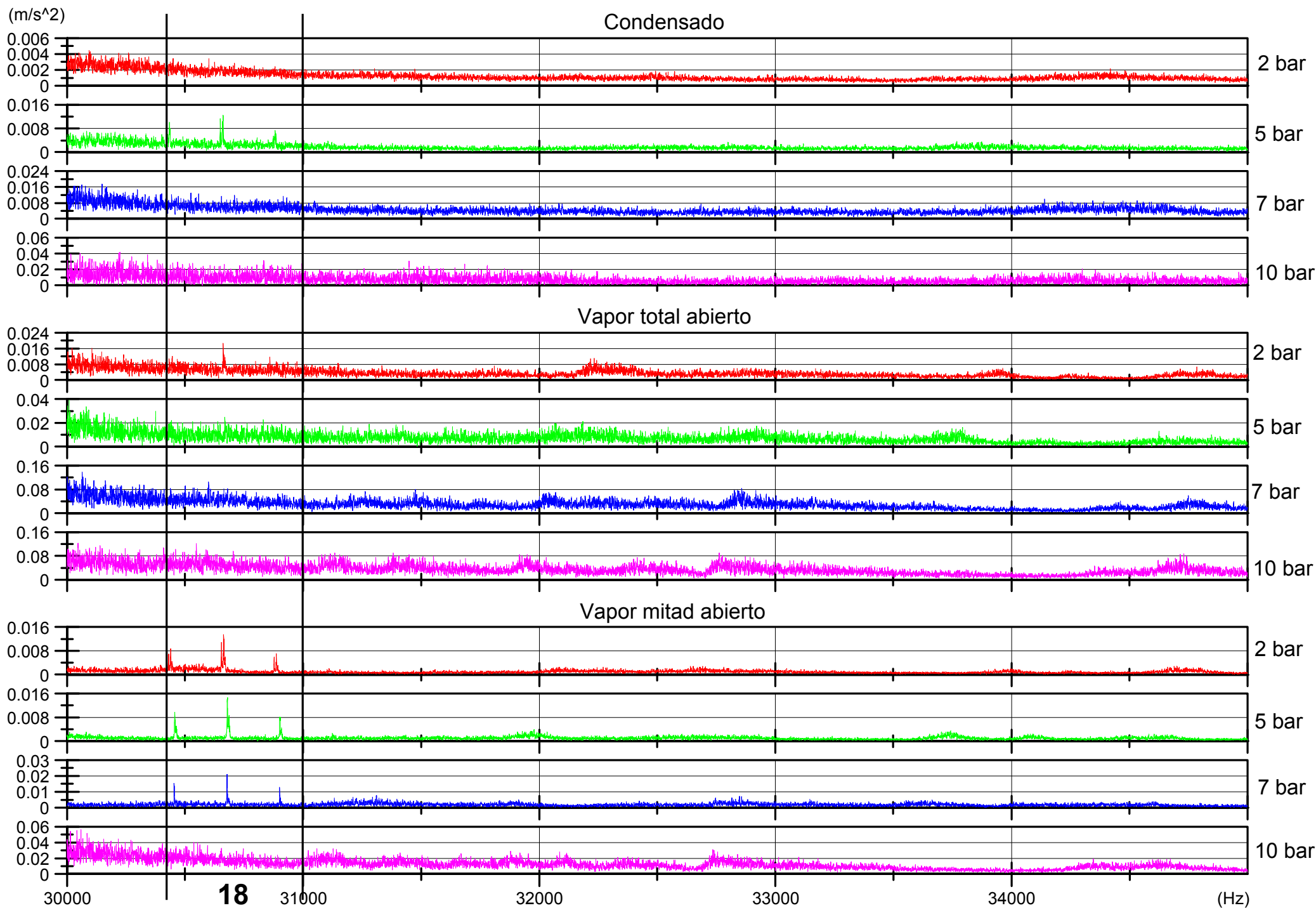


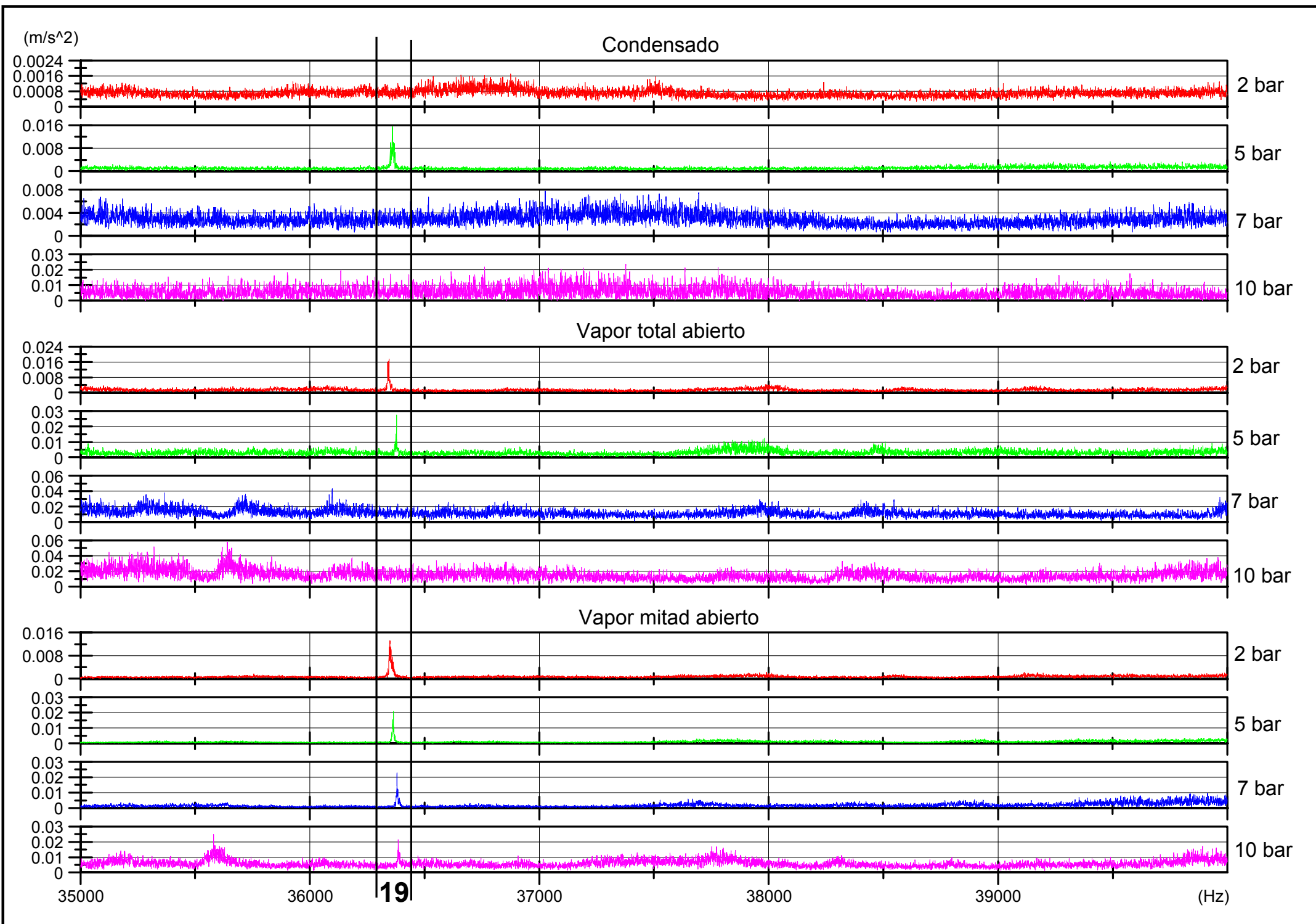


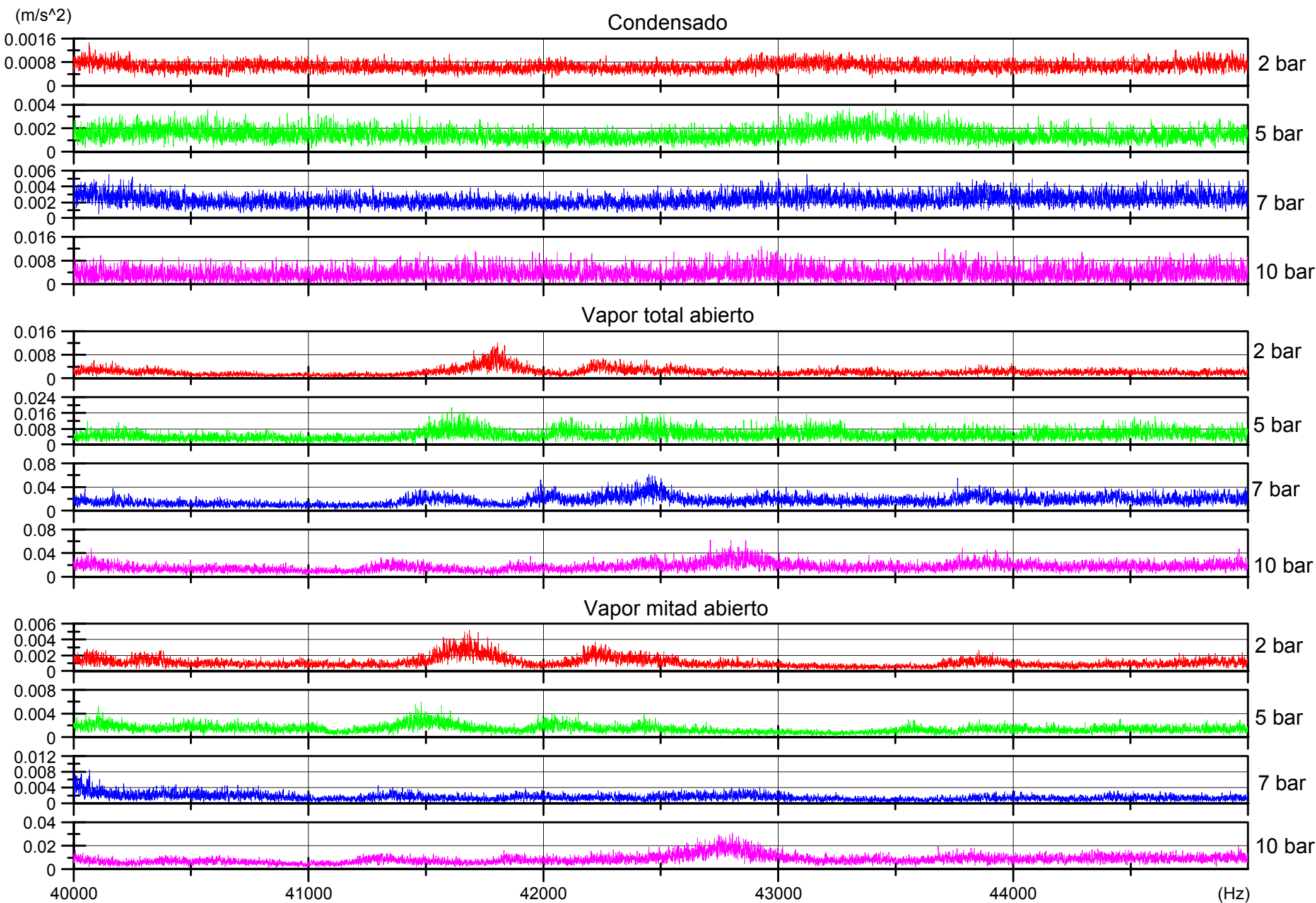


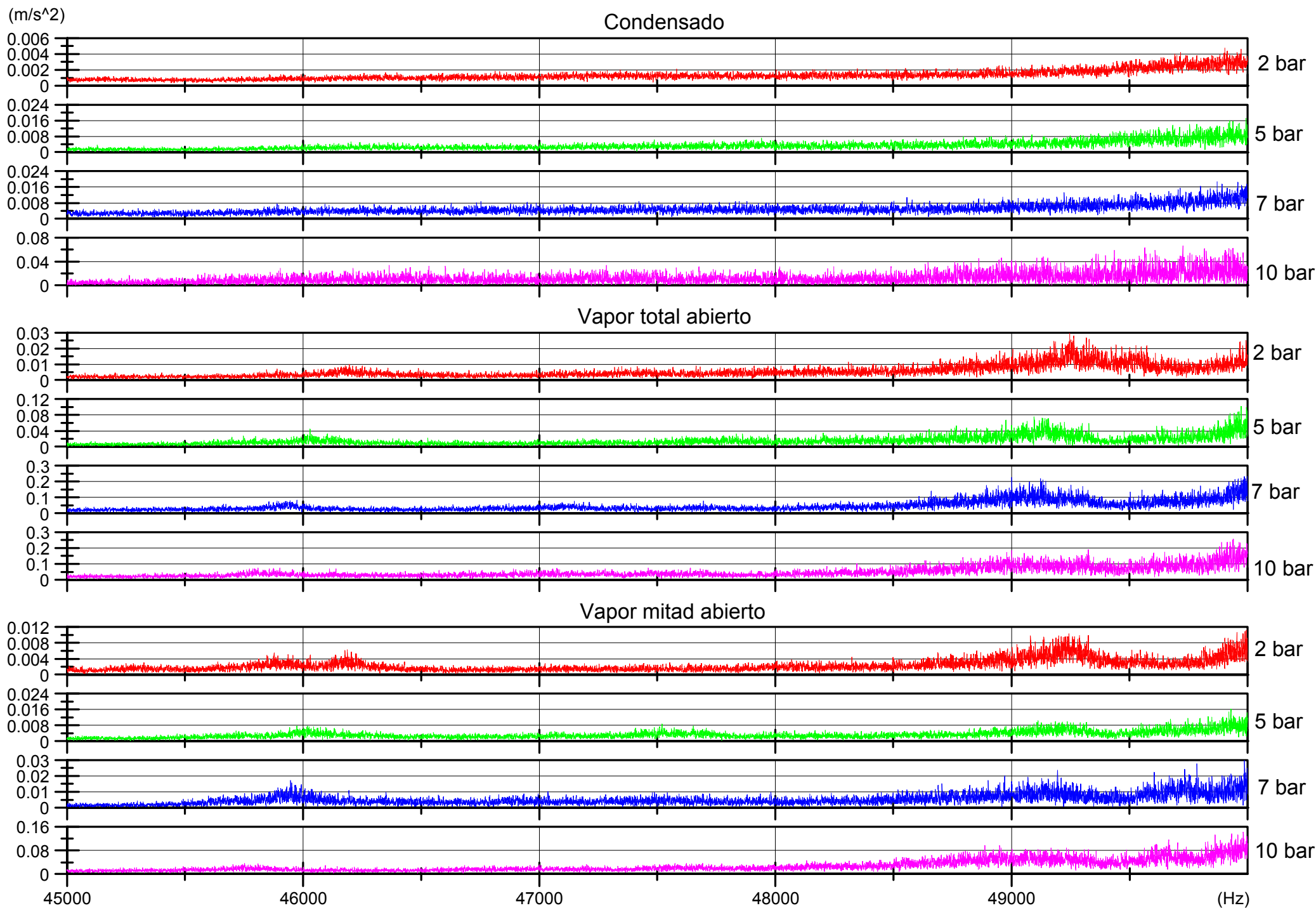


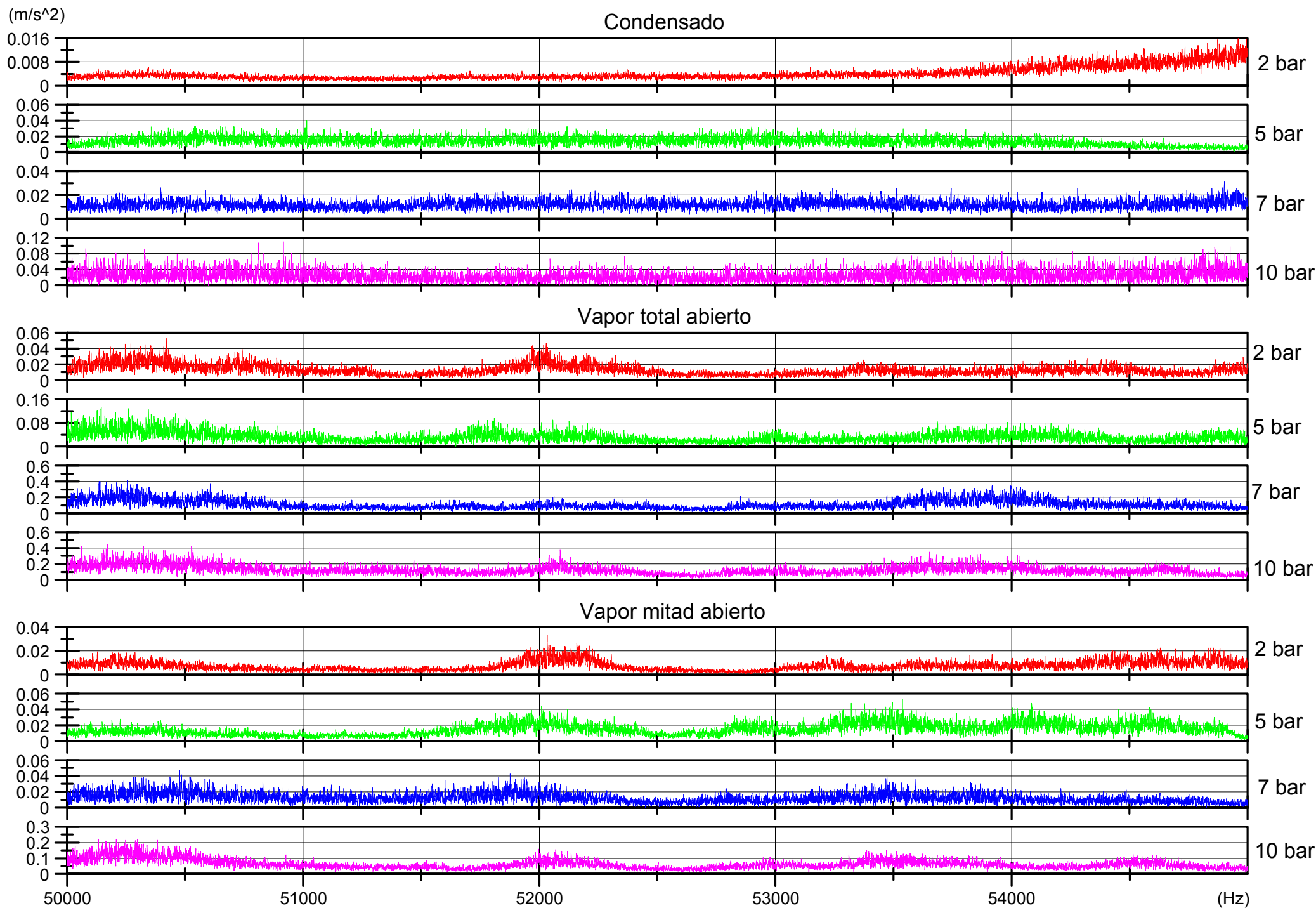


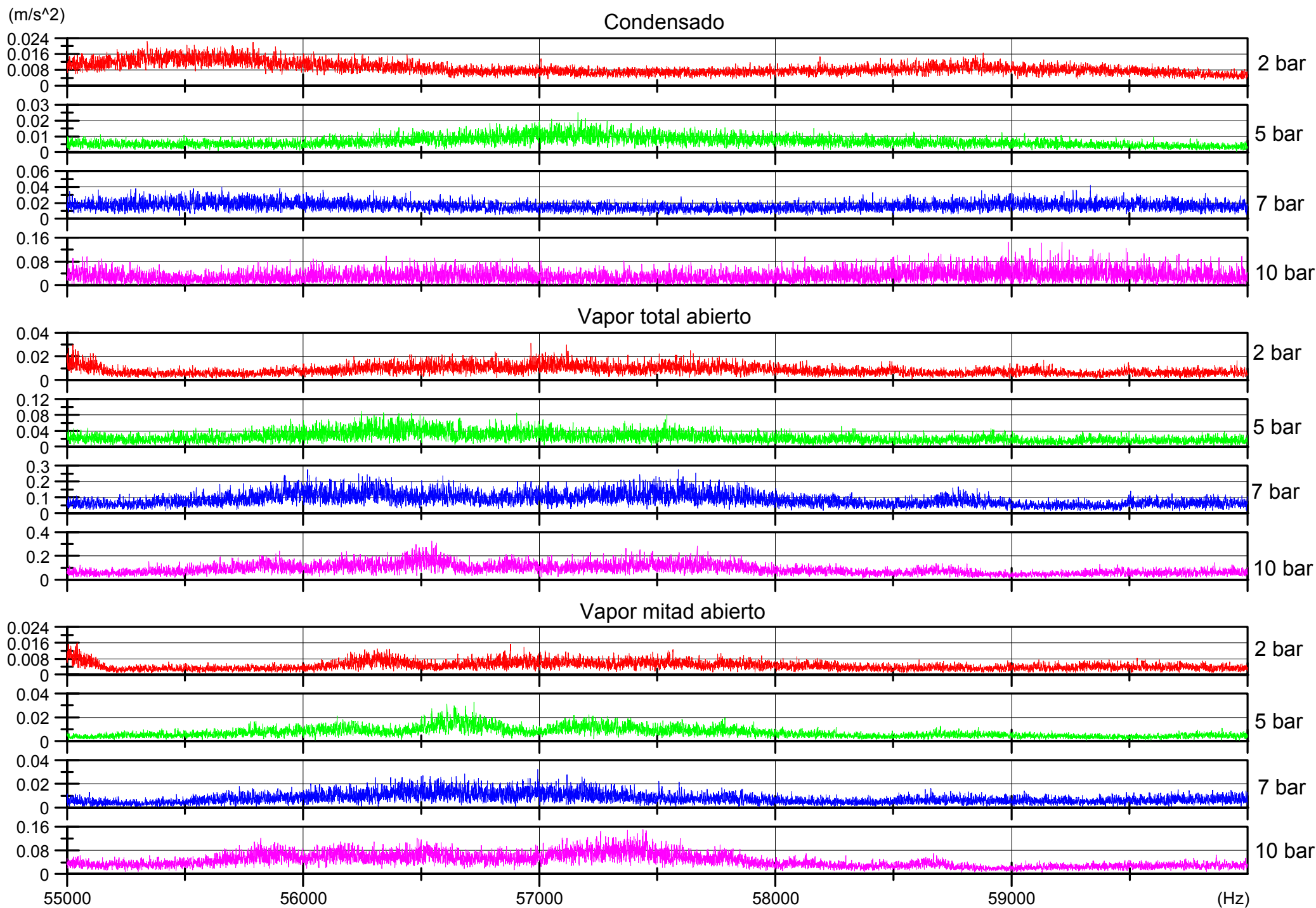


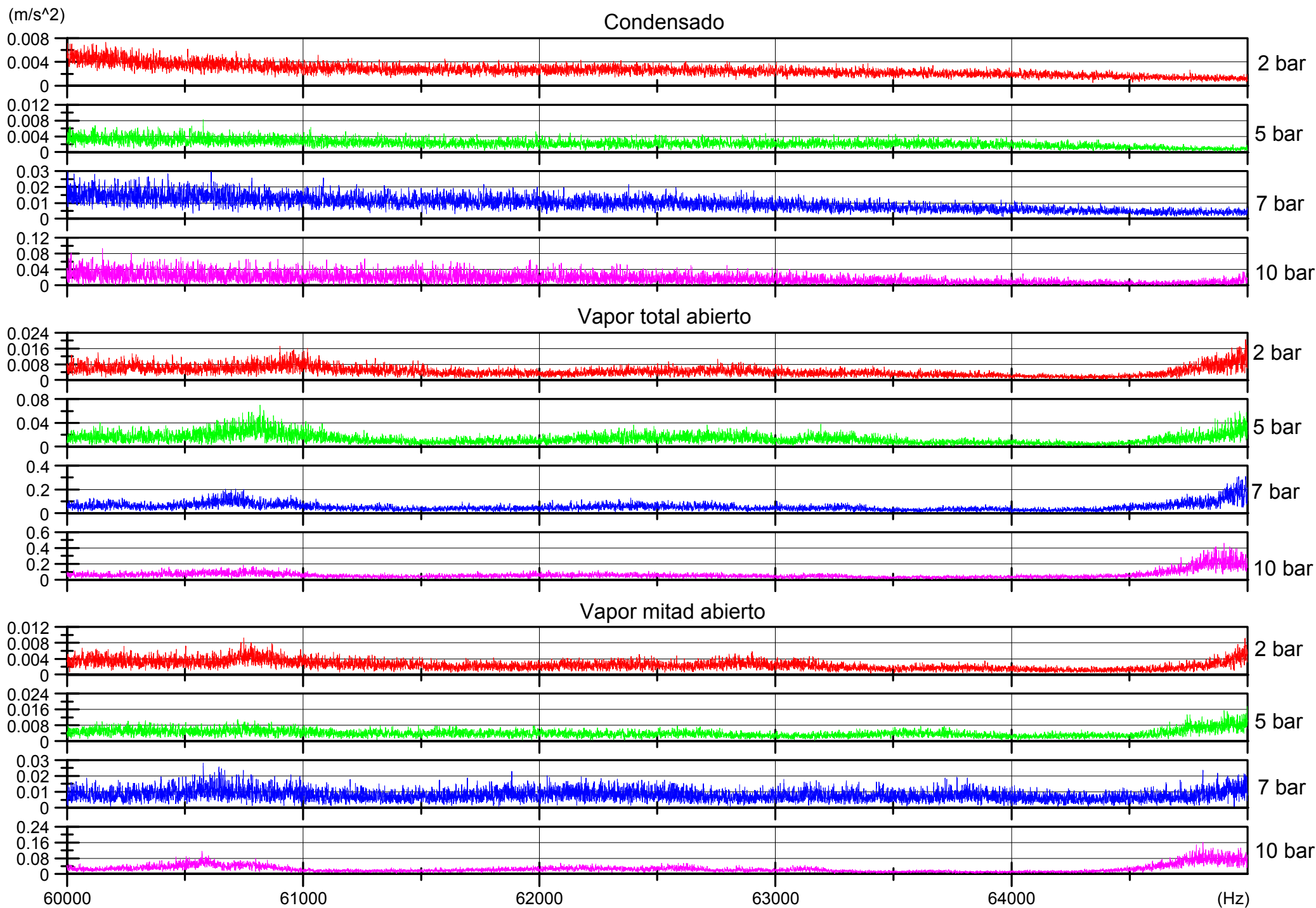


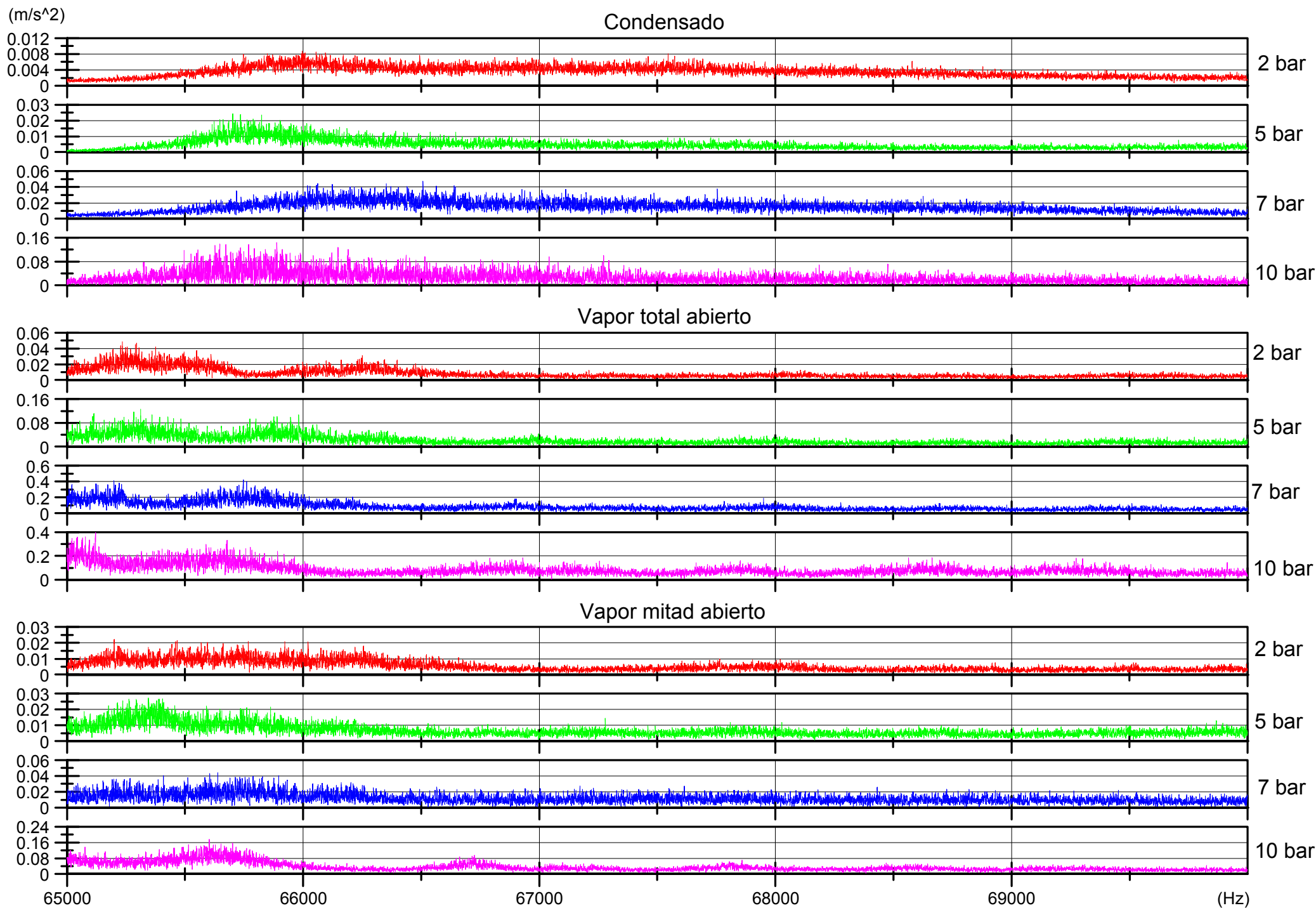


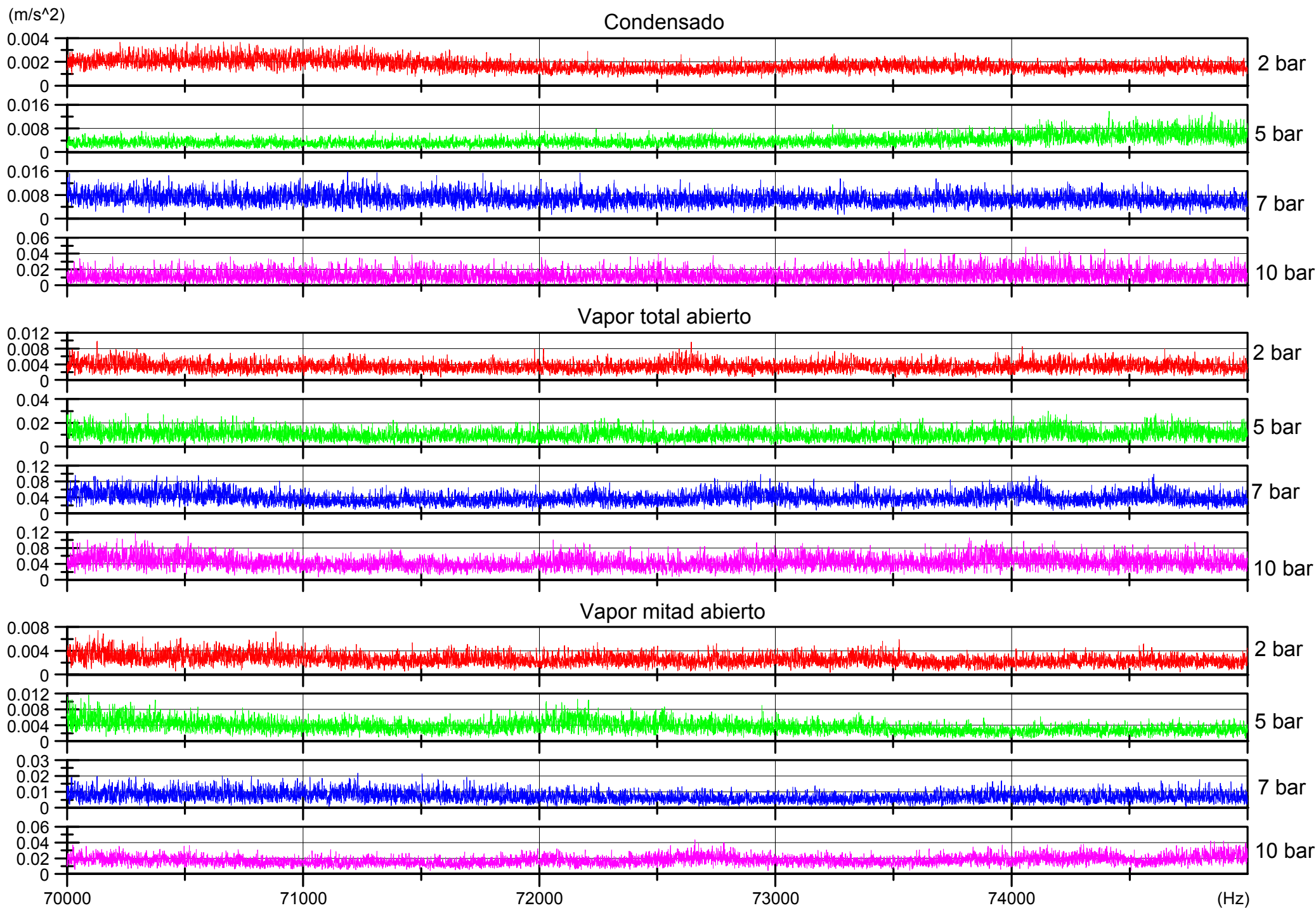


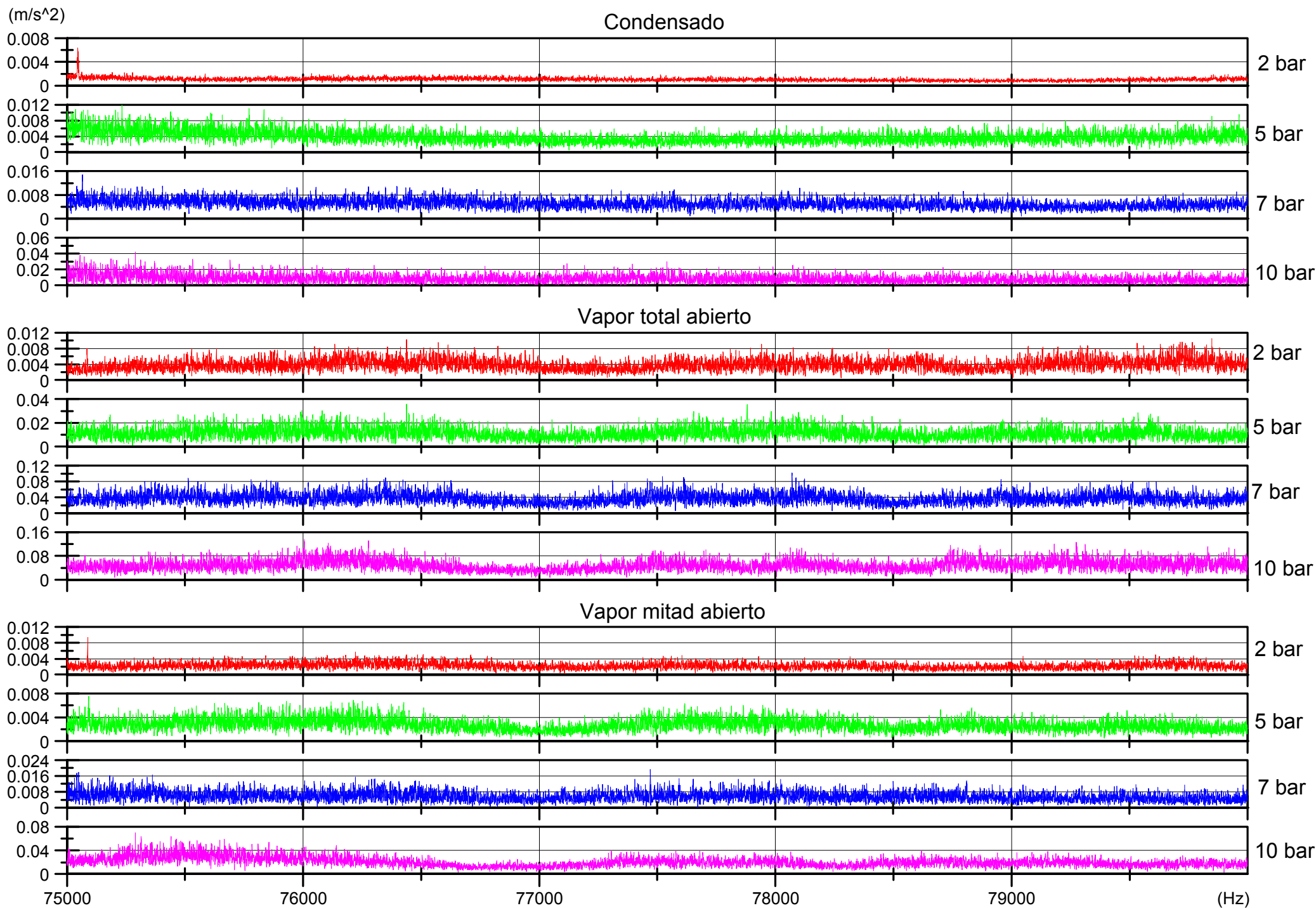


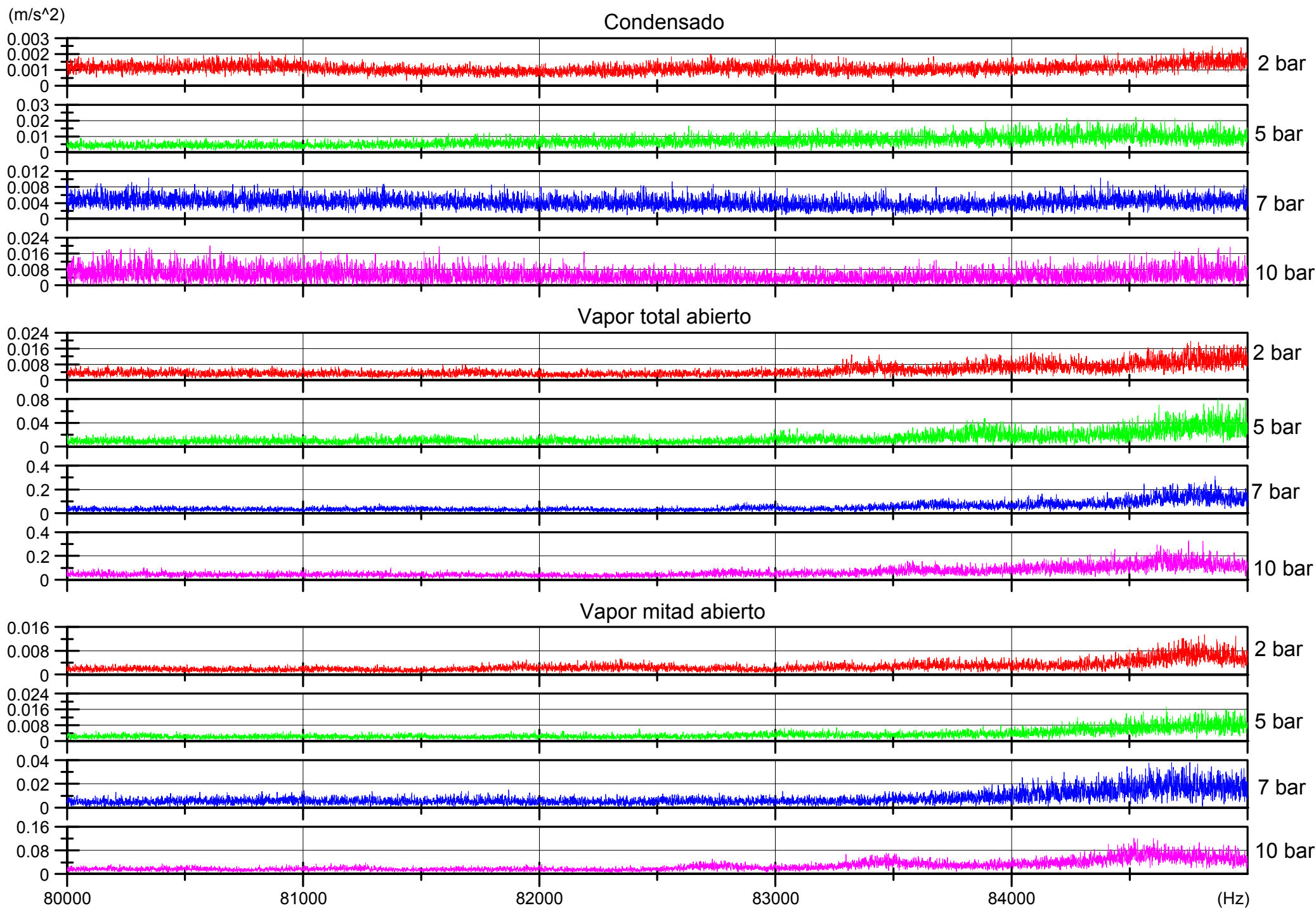


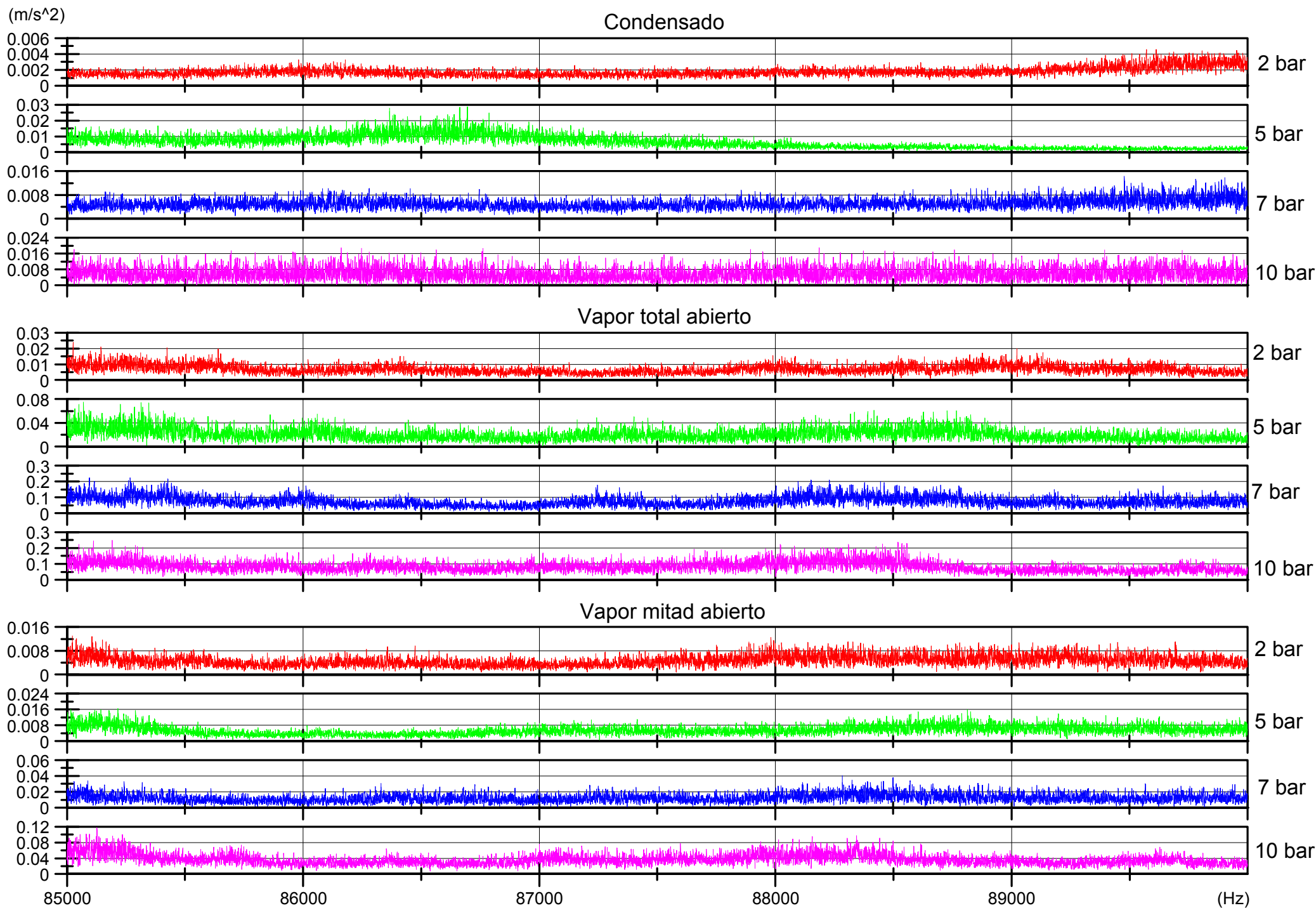


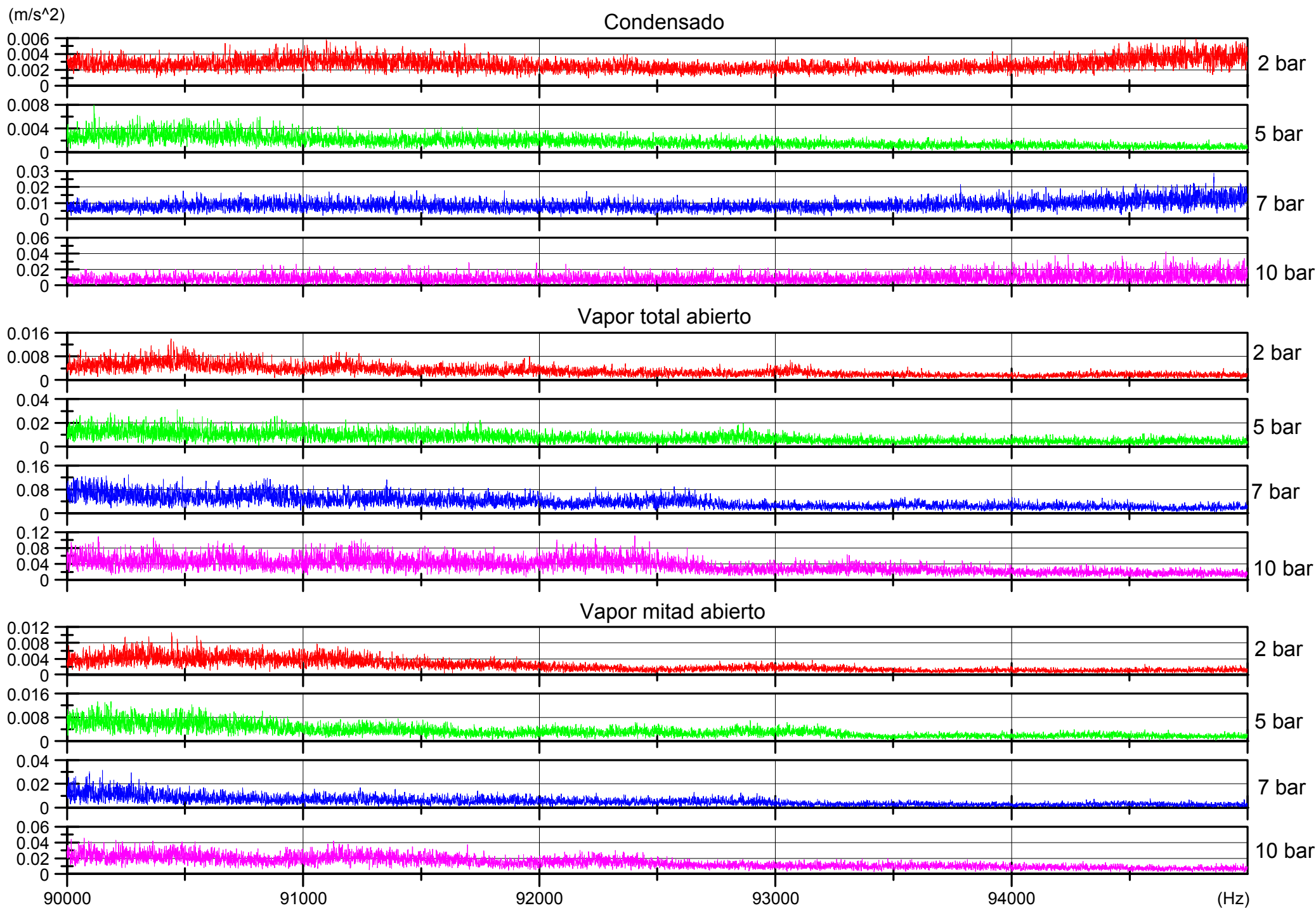


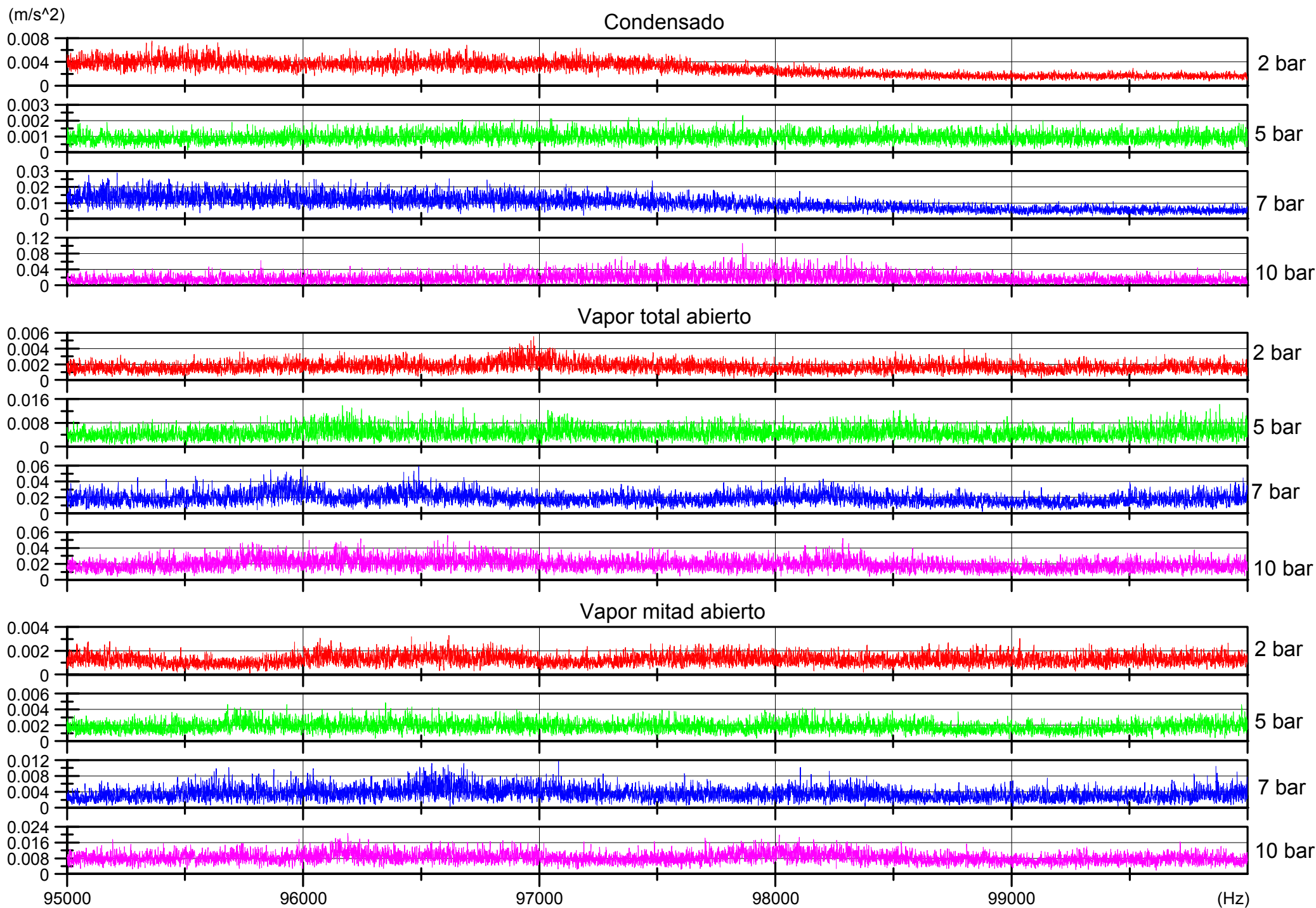


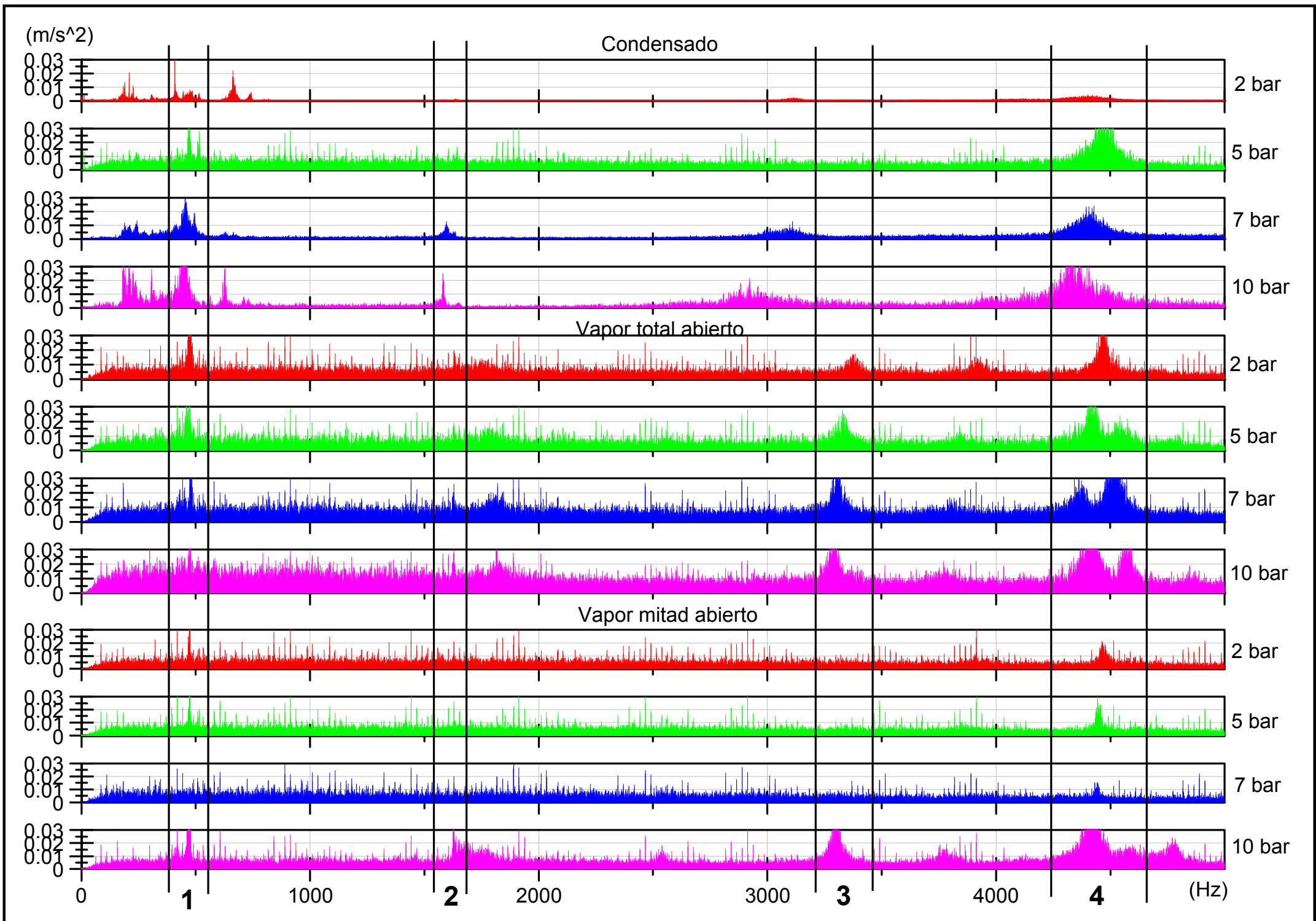


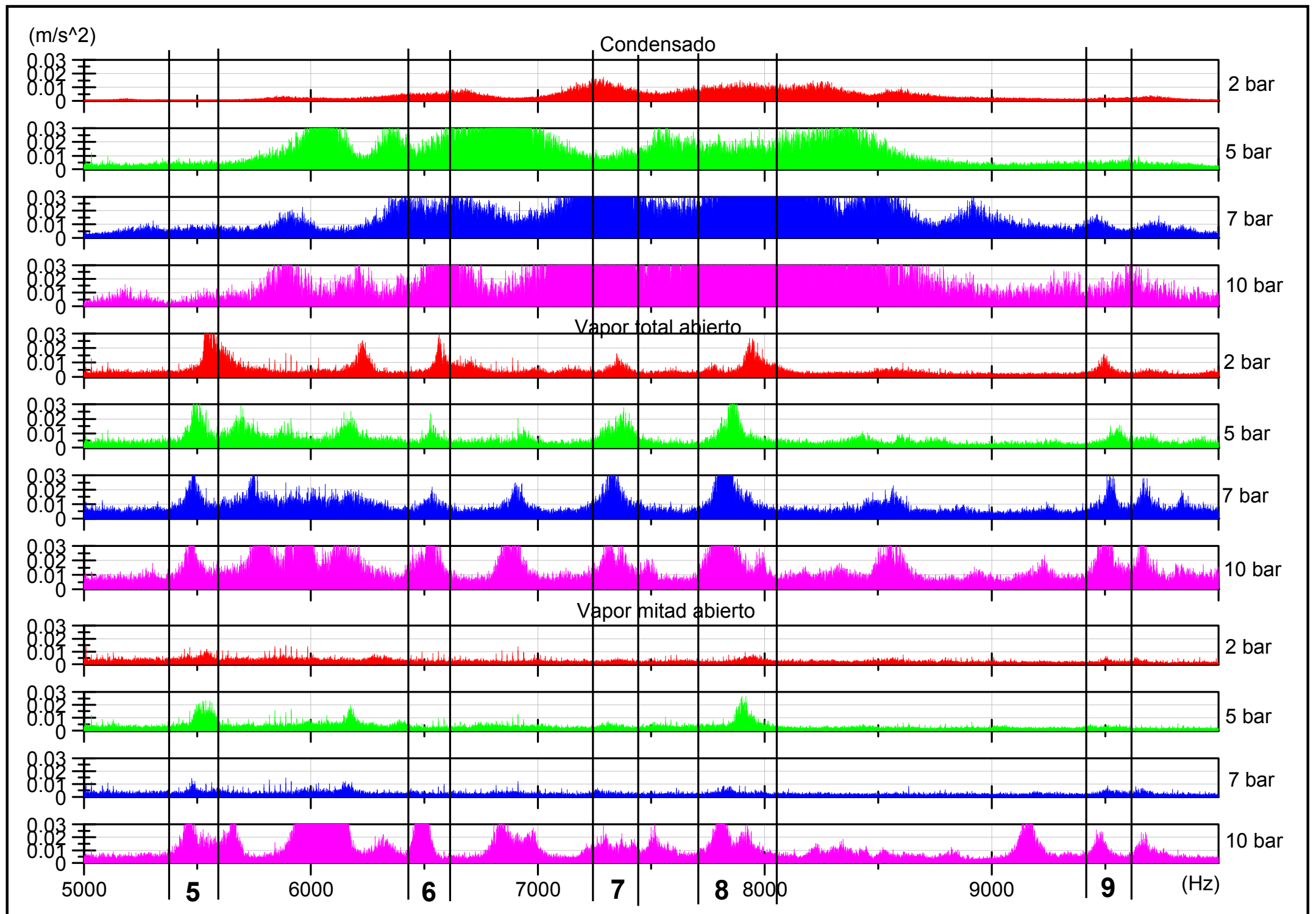


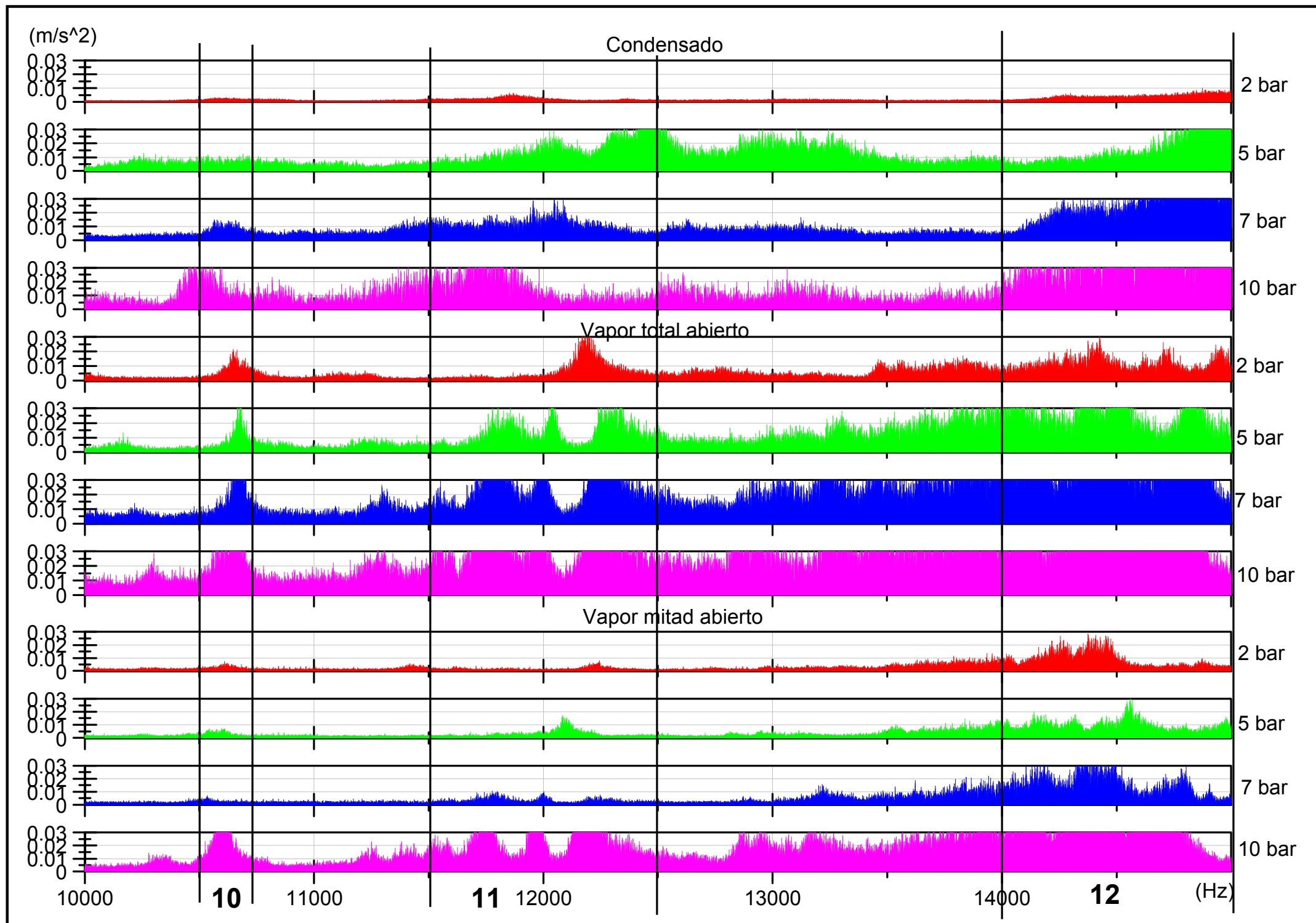


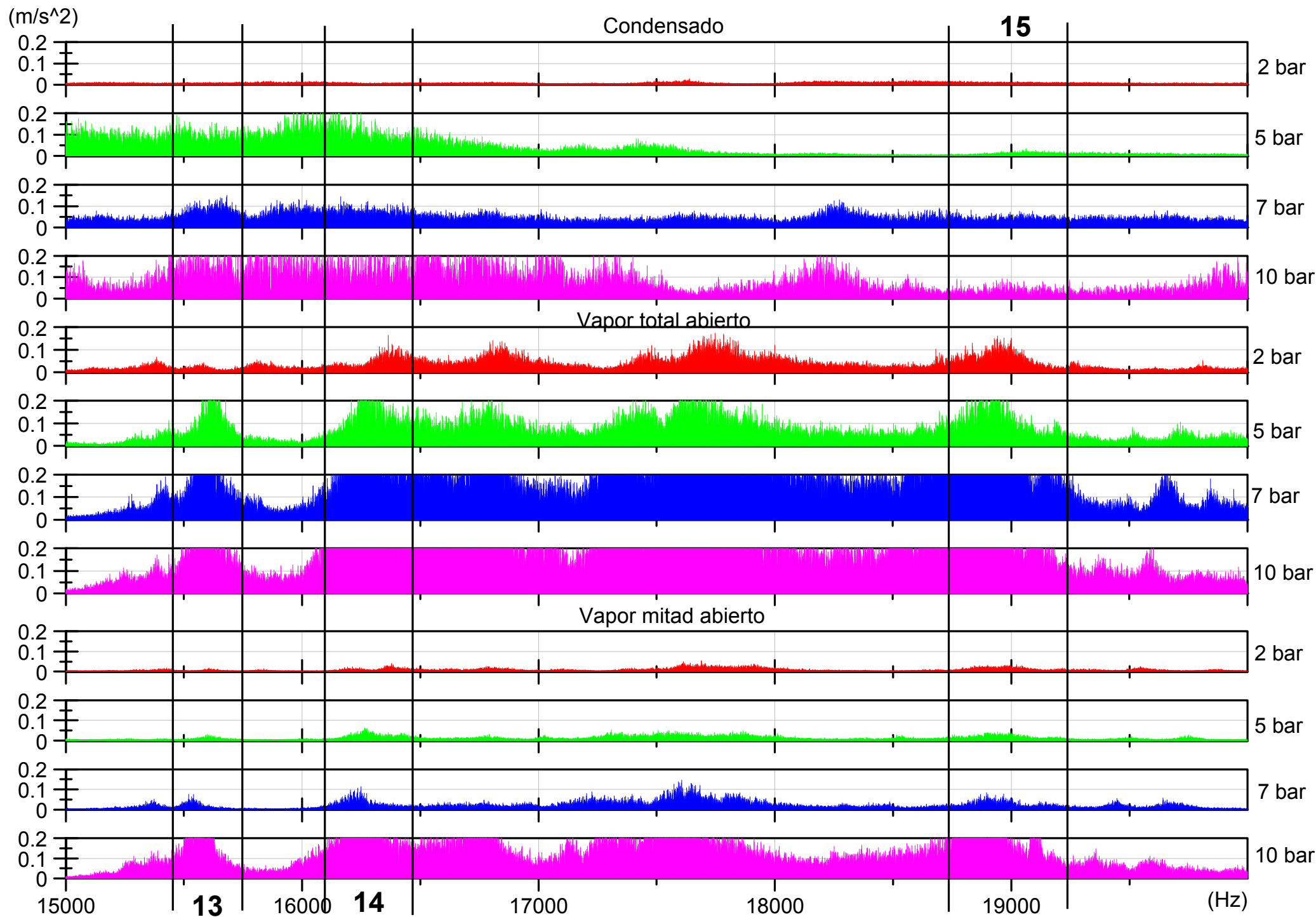


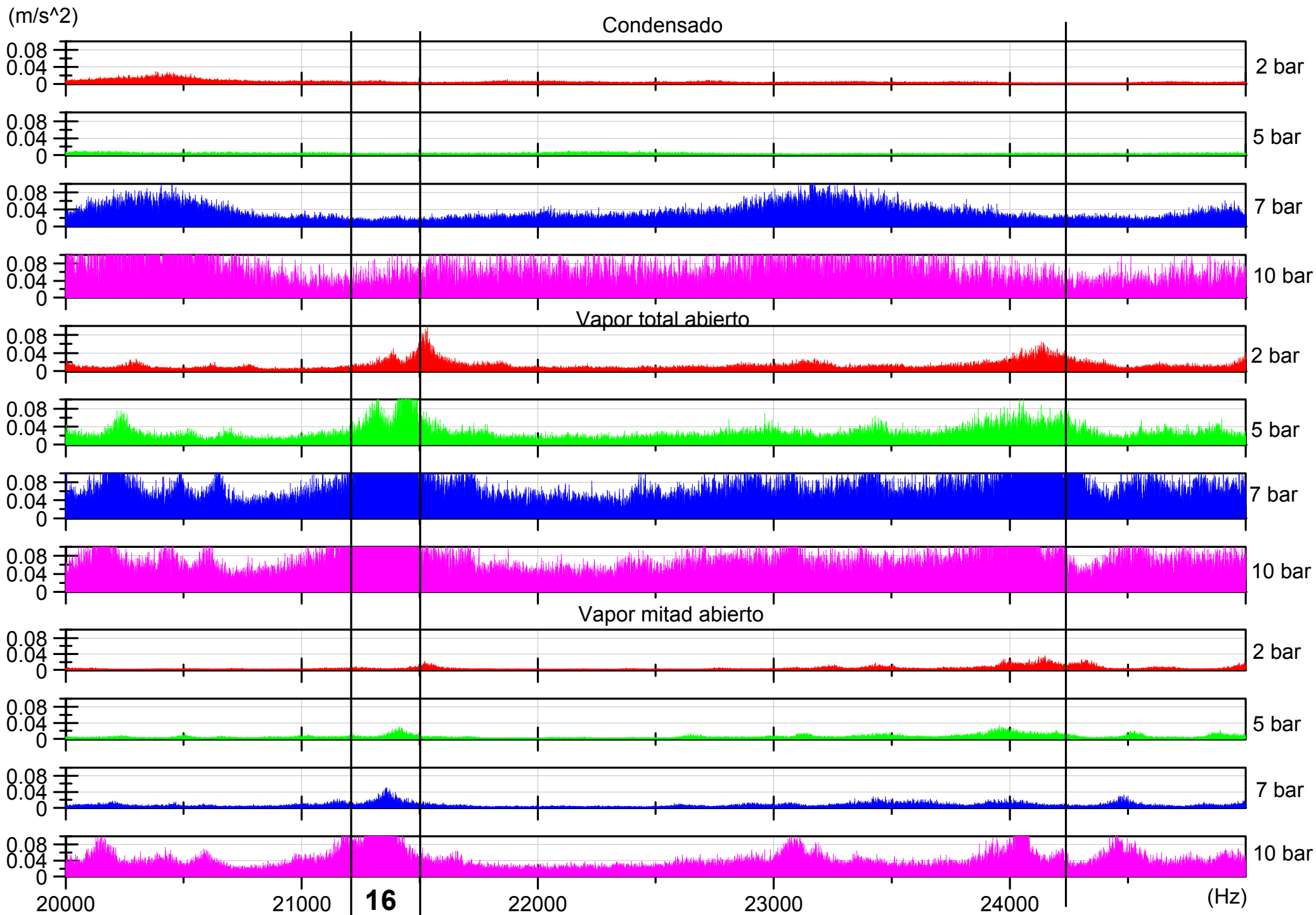


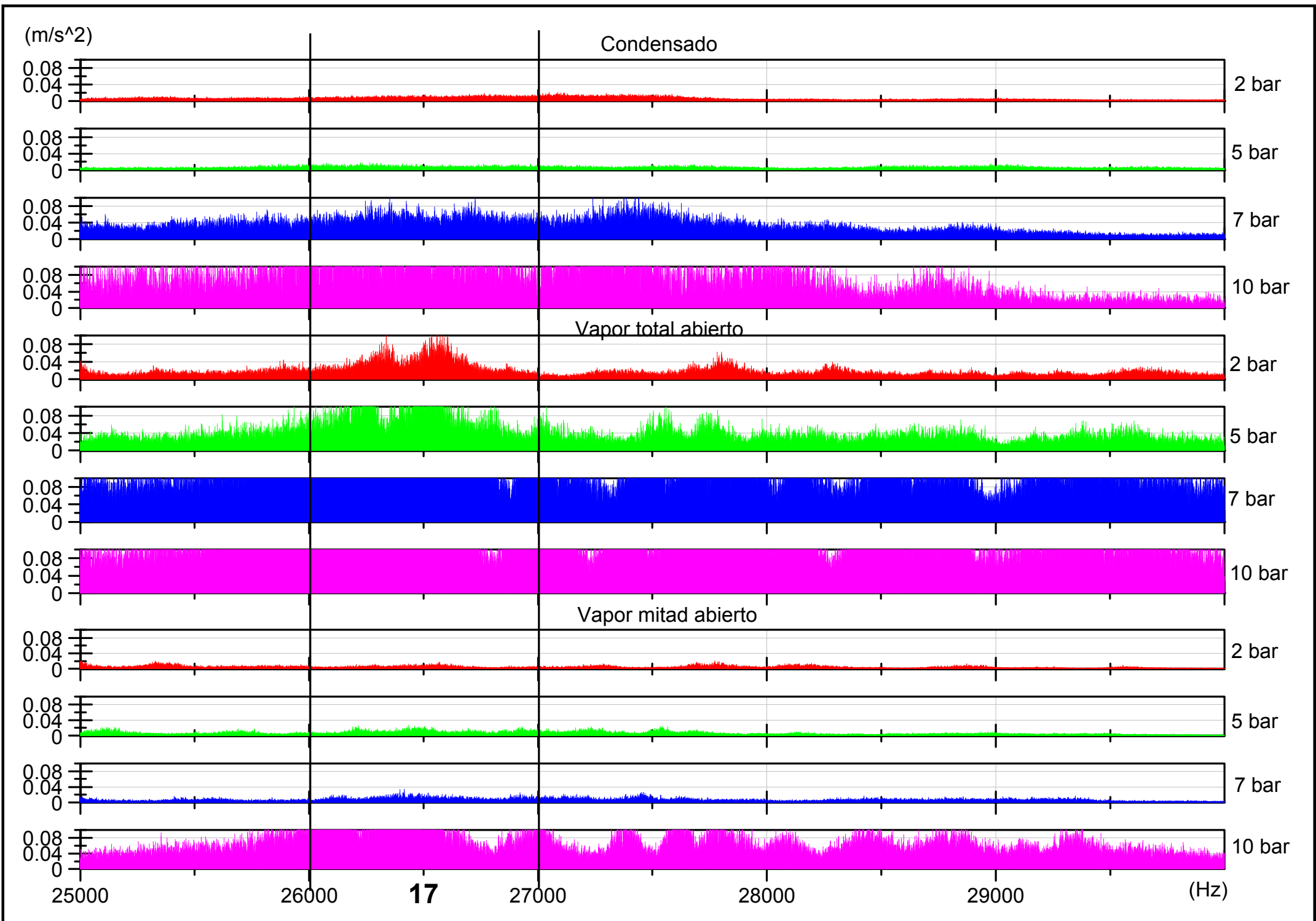


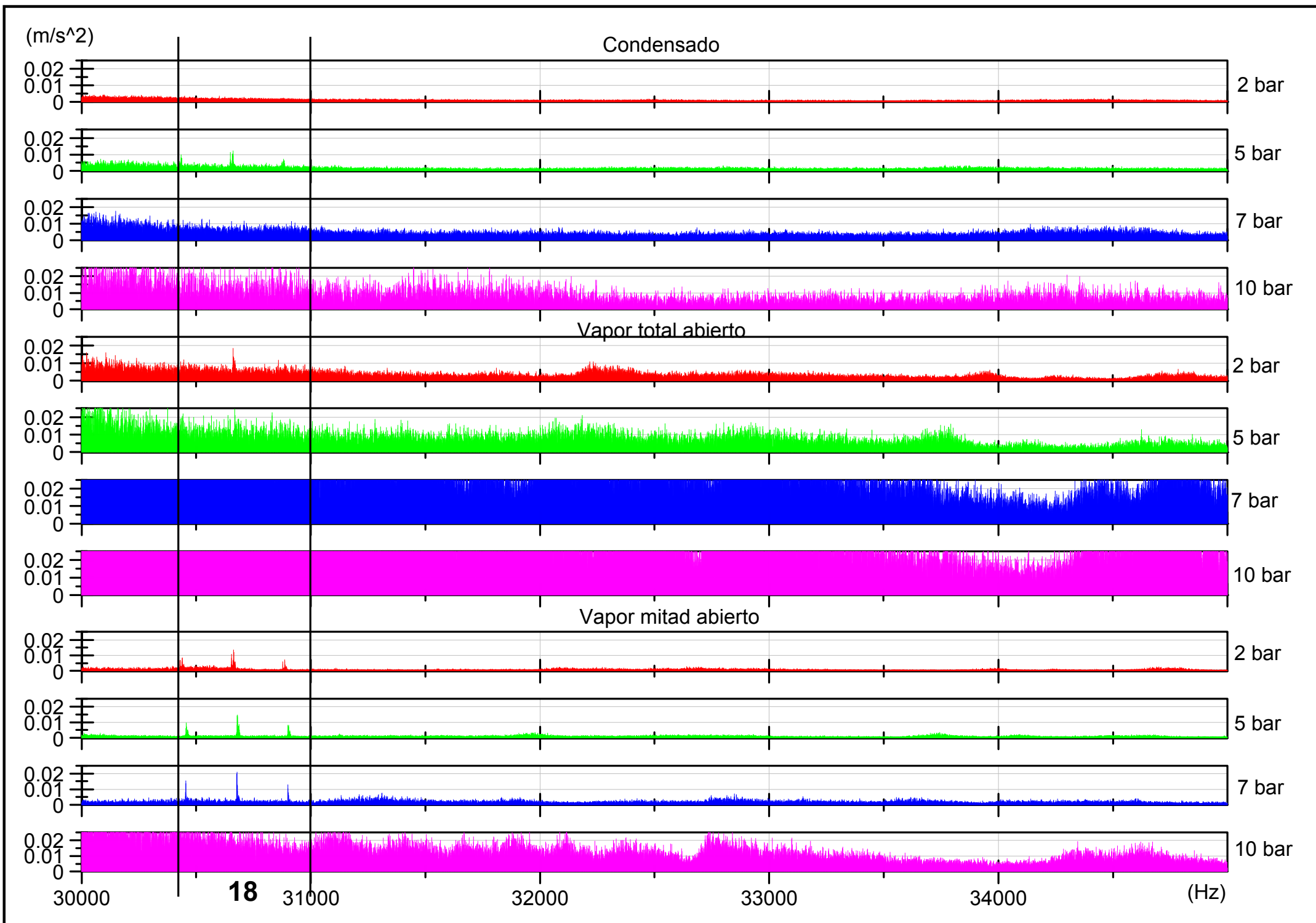


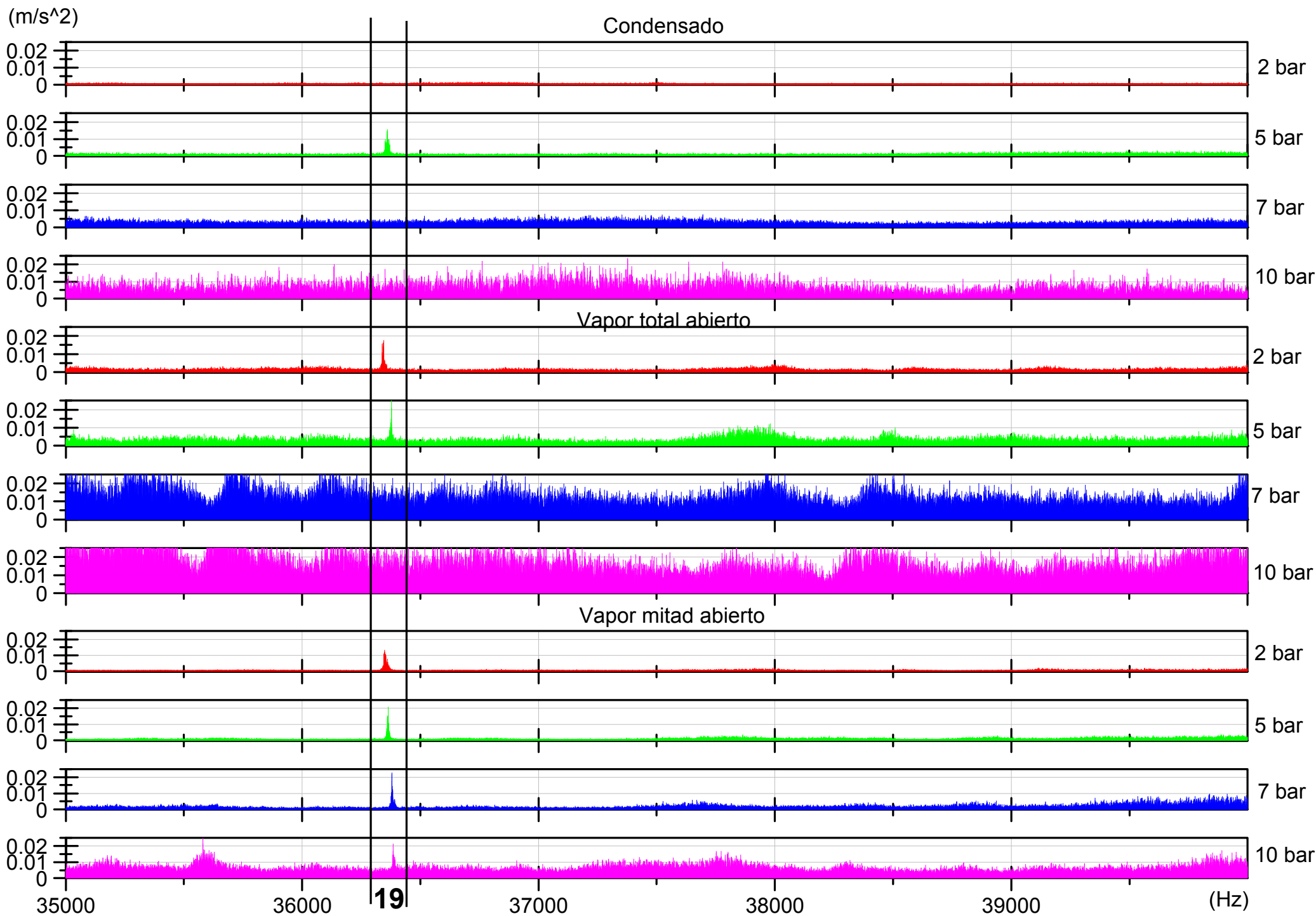






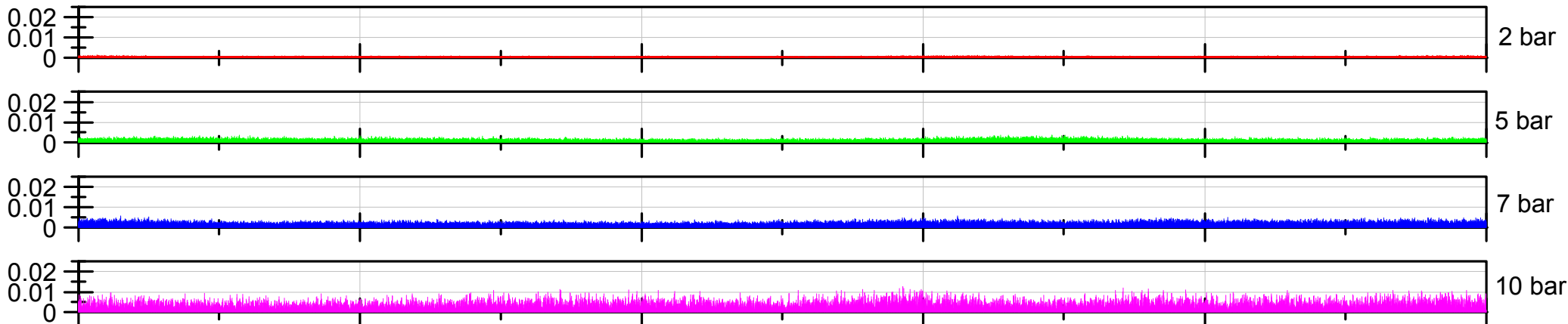




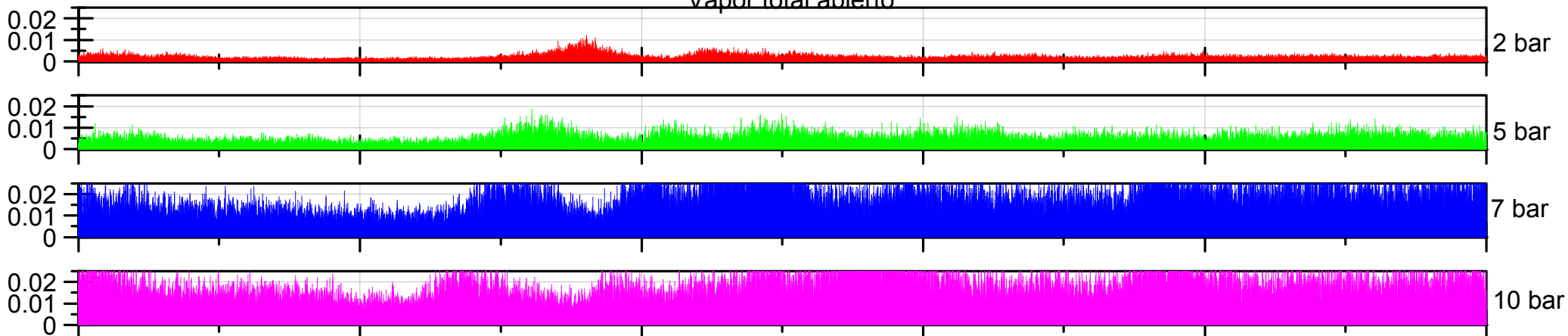


(m/s²)

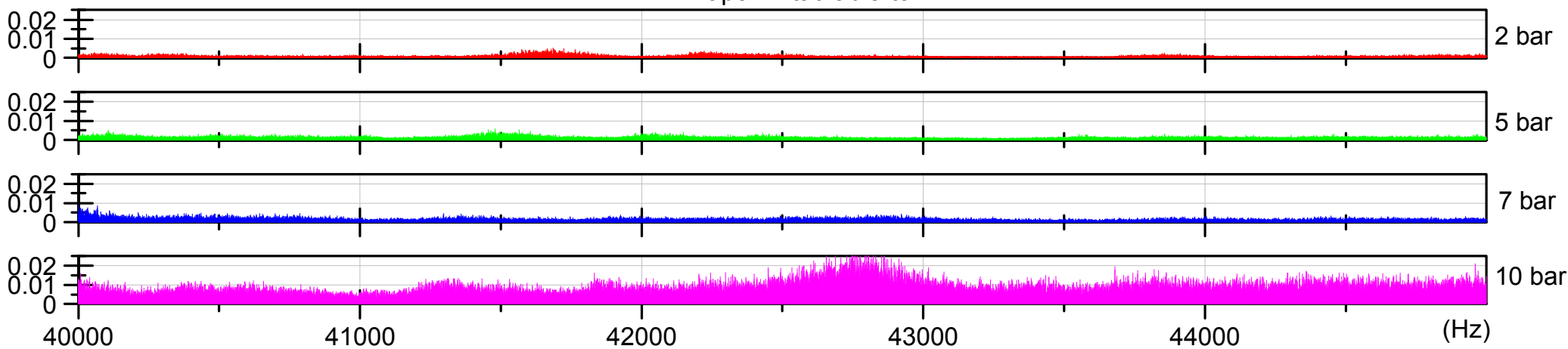
Condensado



Vapor total abierto

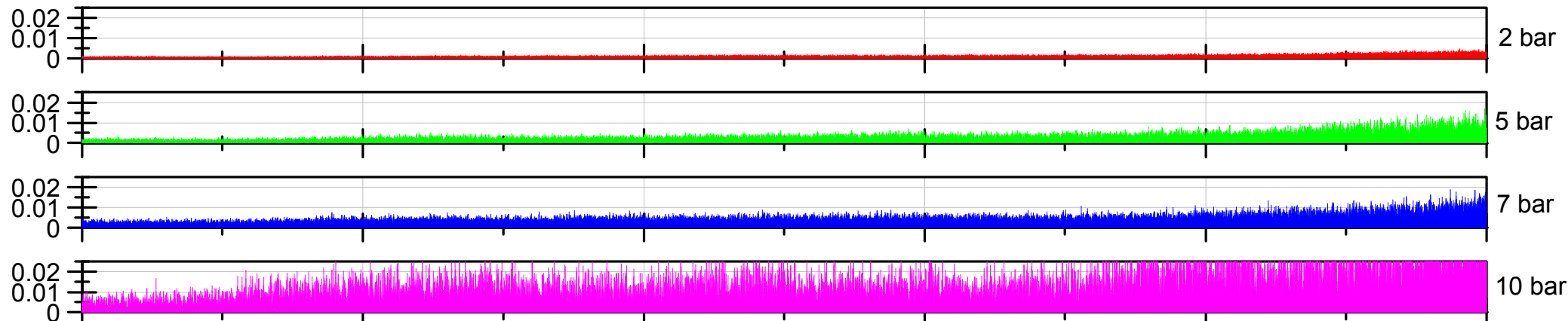


Vapor mitad abierto

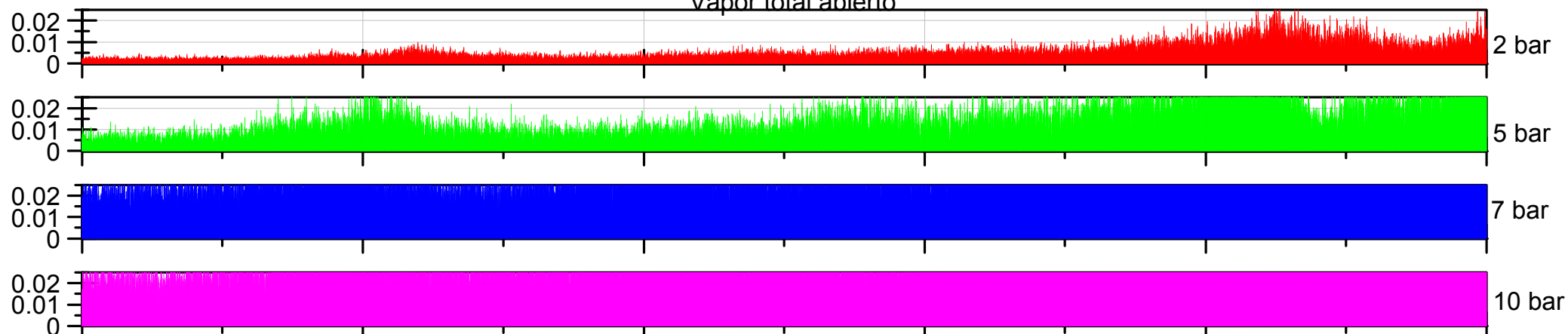


(m/s²)

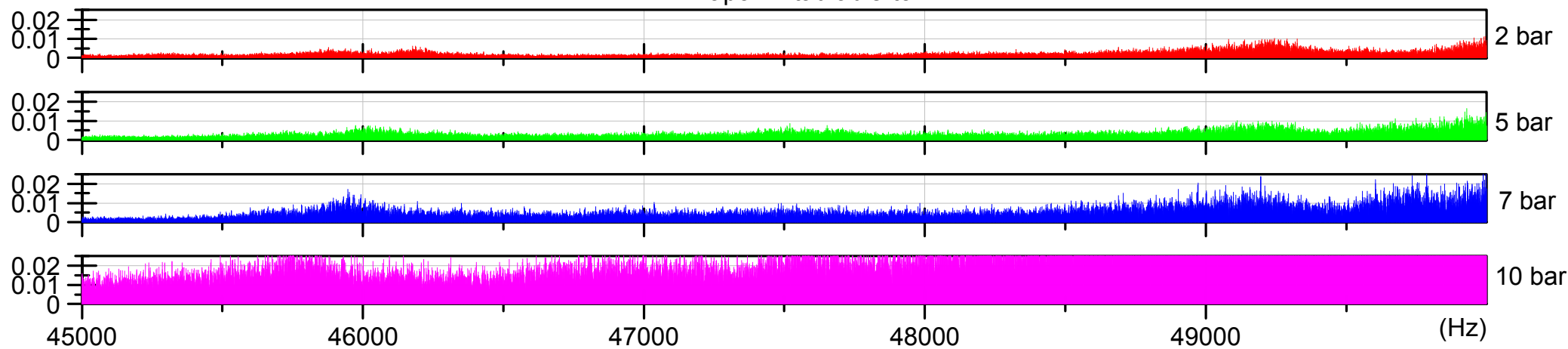
Condensado

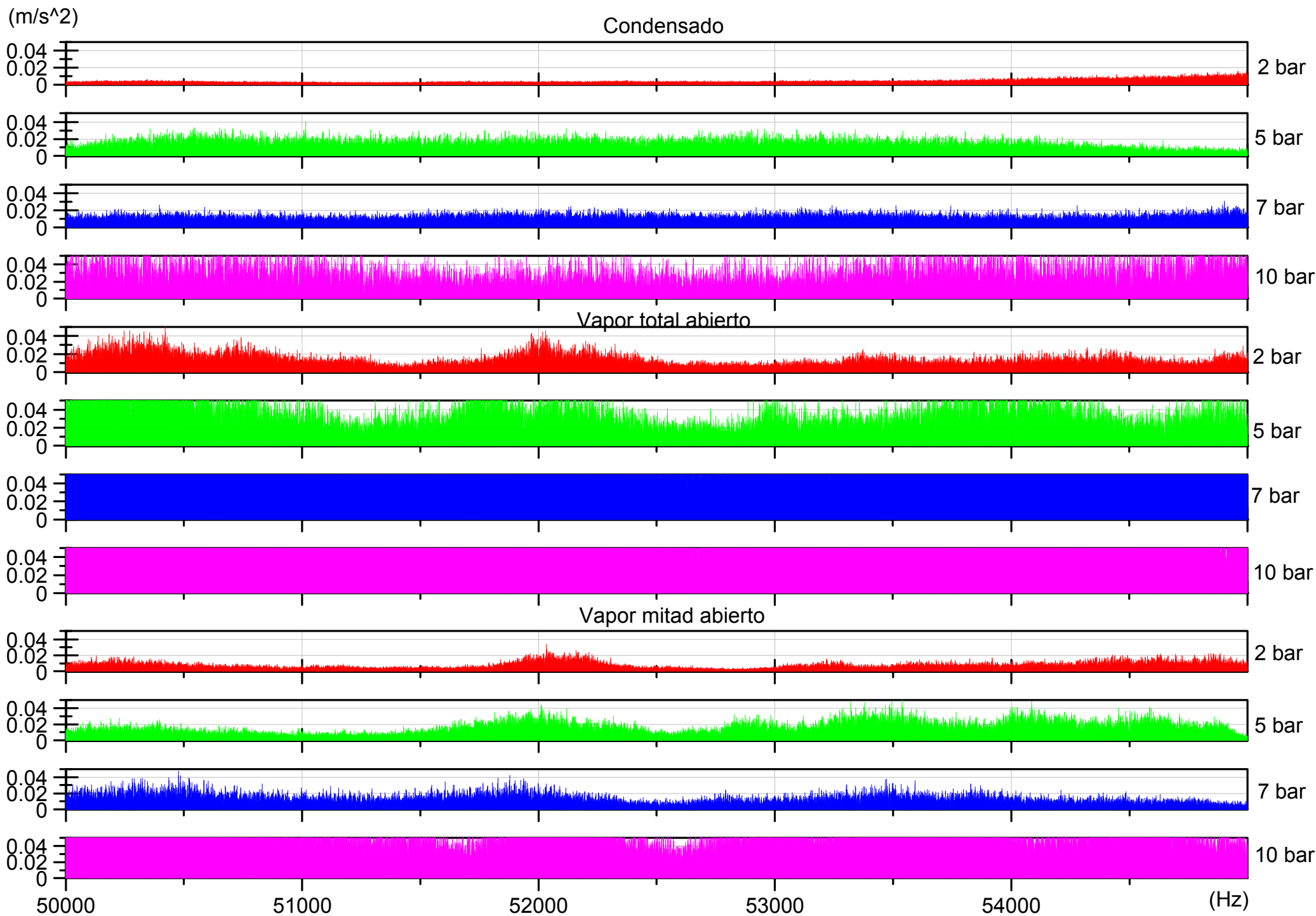


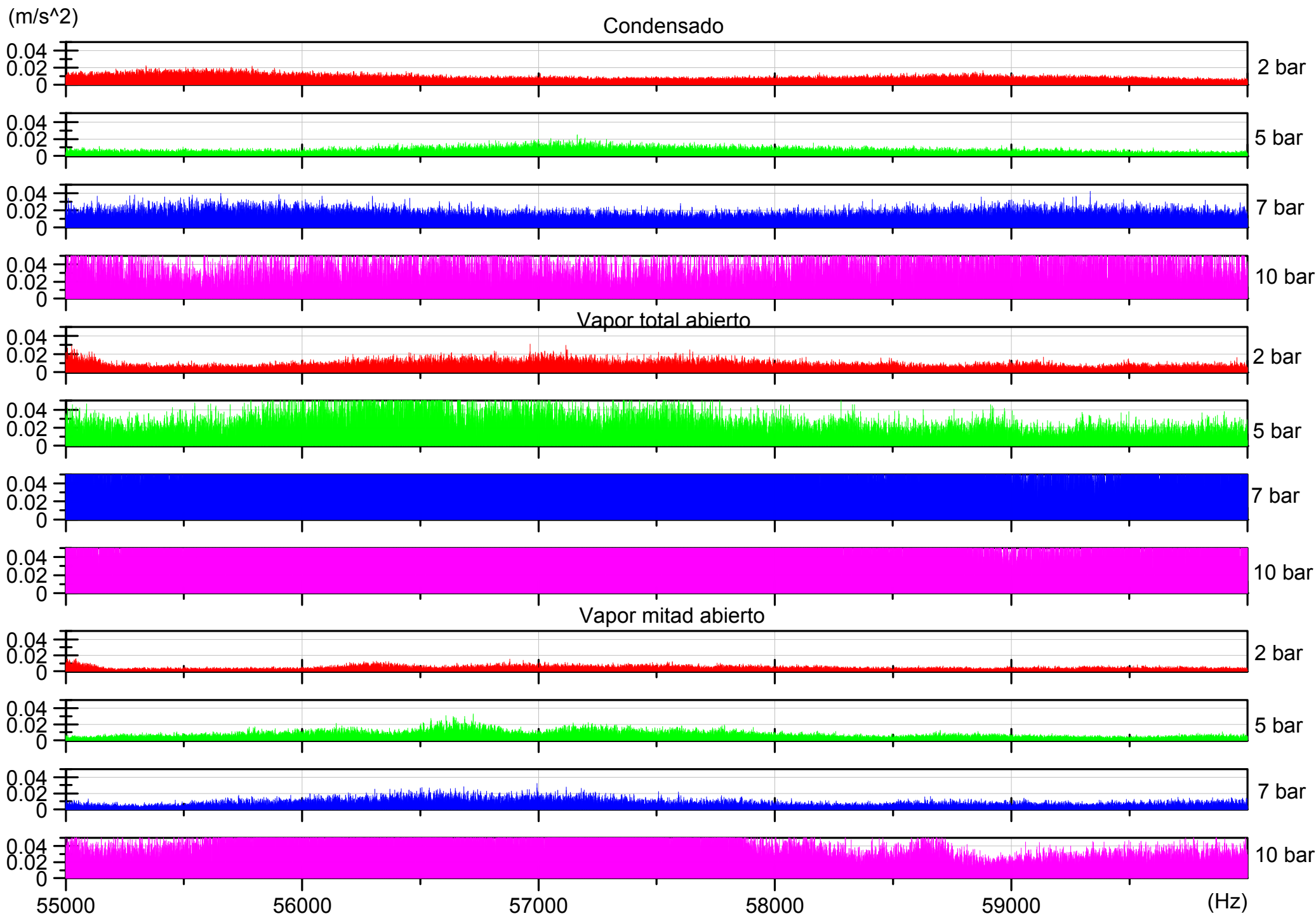
Vapor total abierto

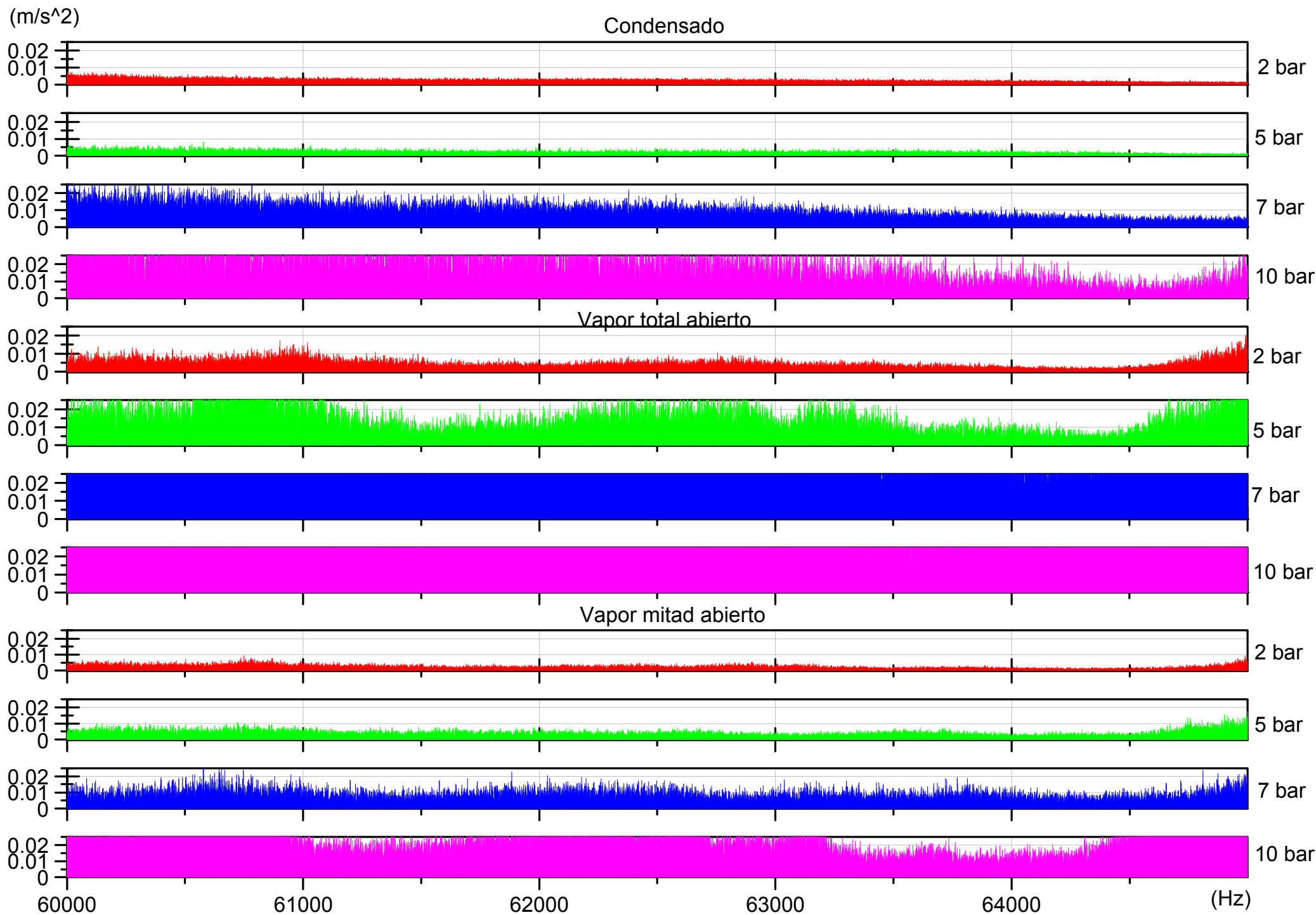


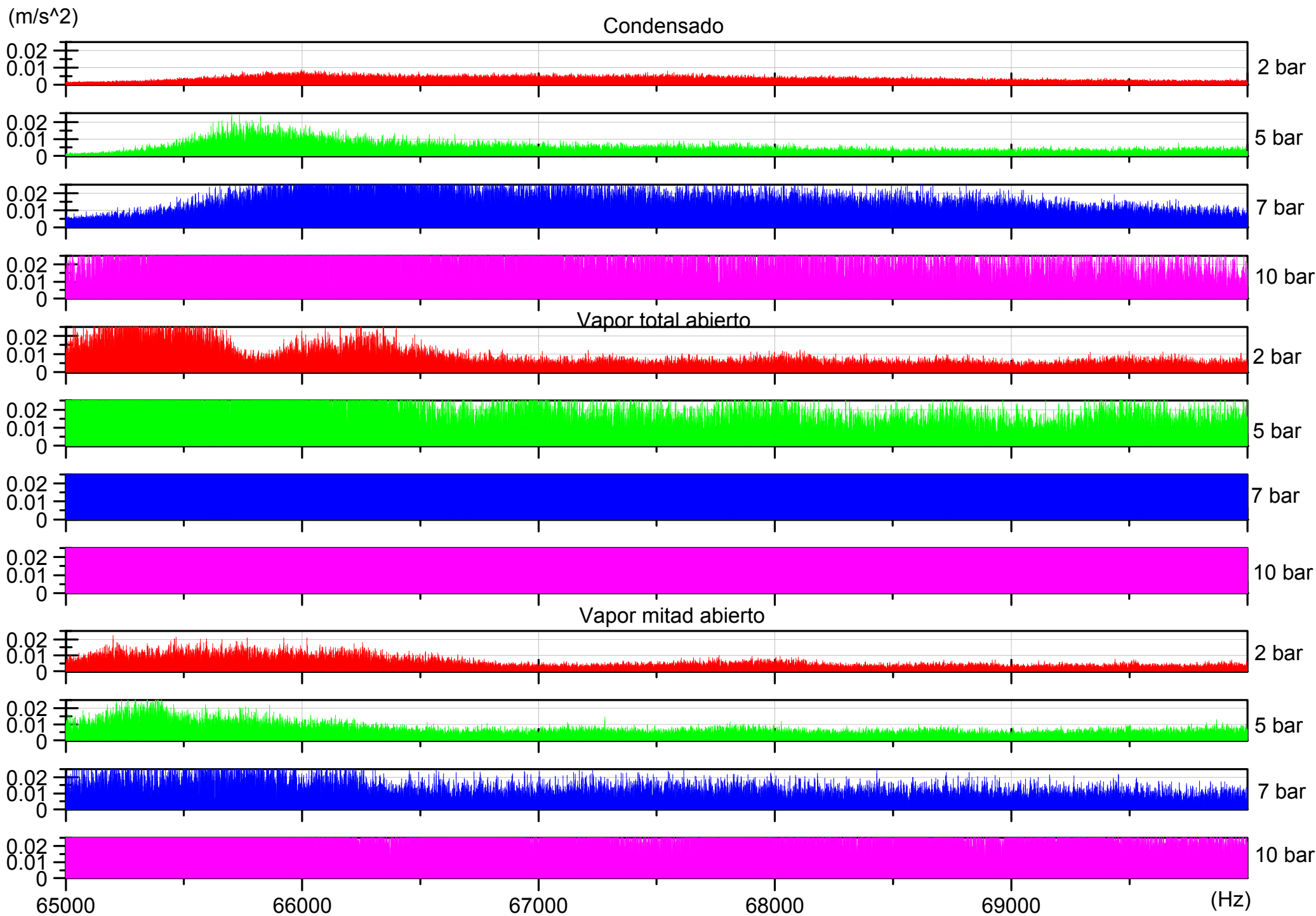
Vapor mitad abierto

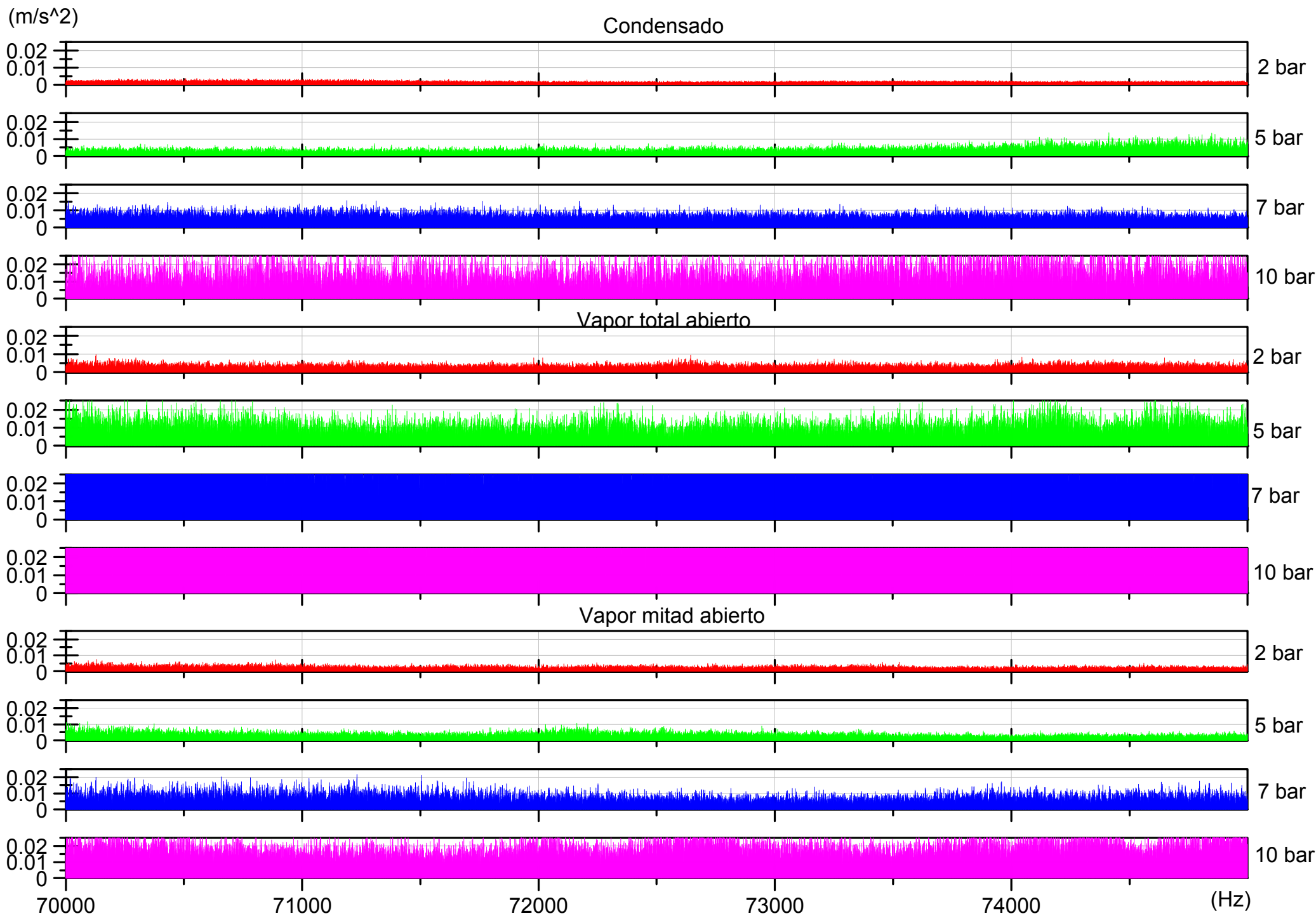


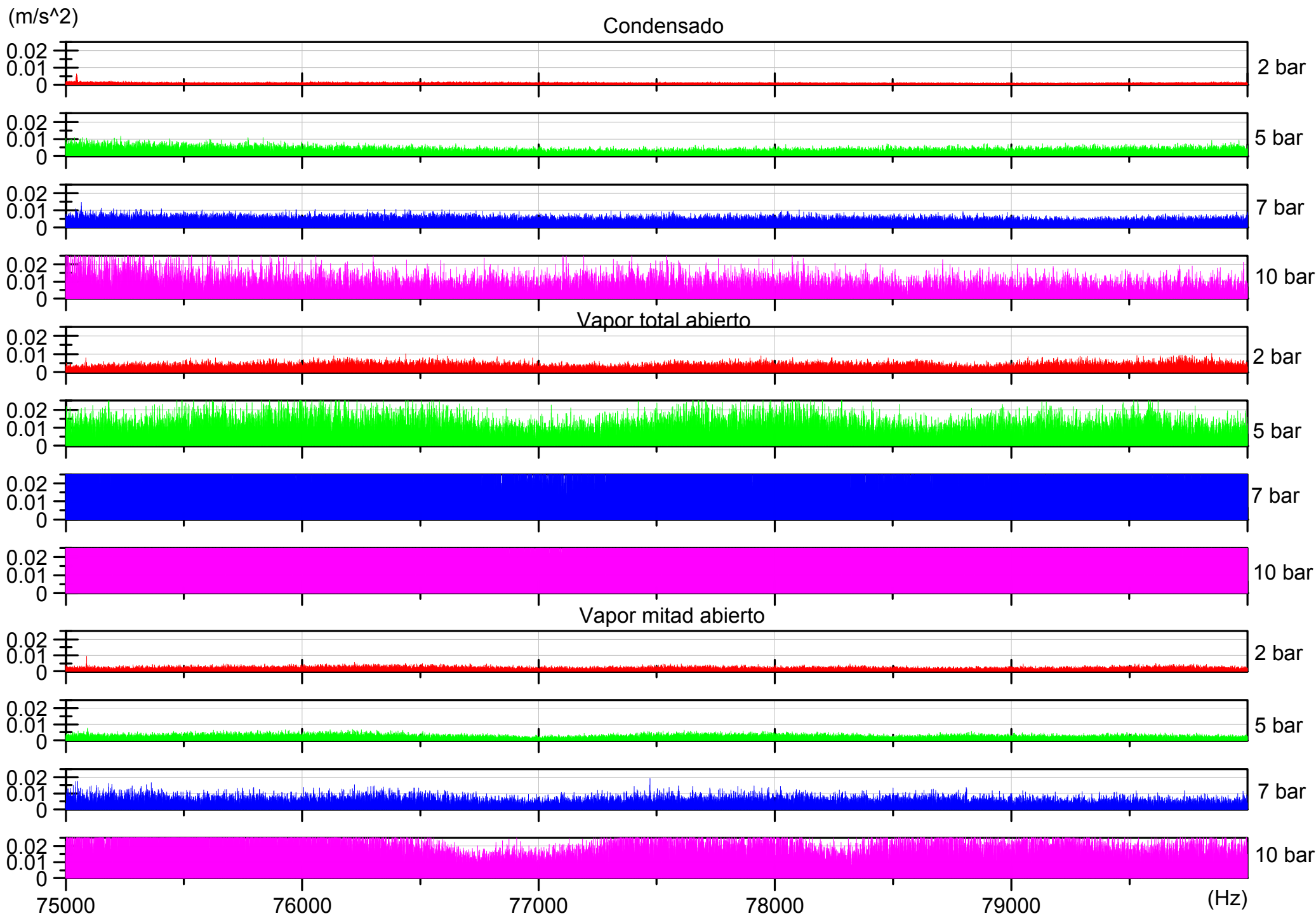


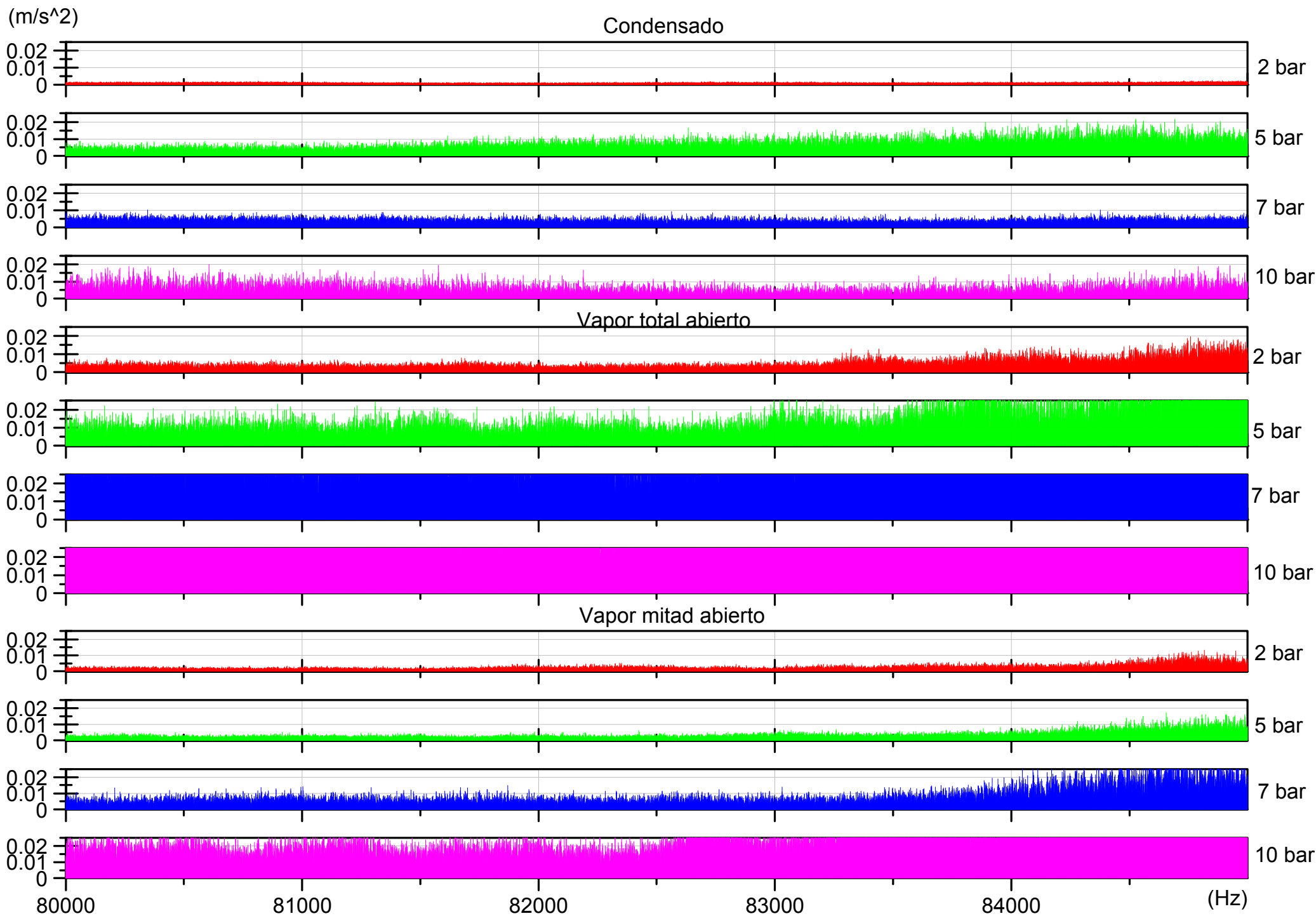


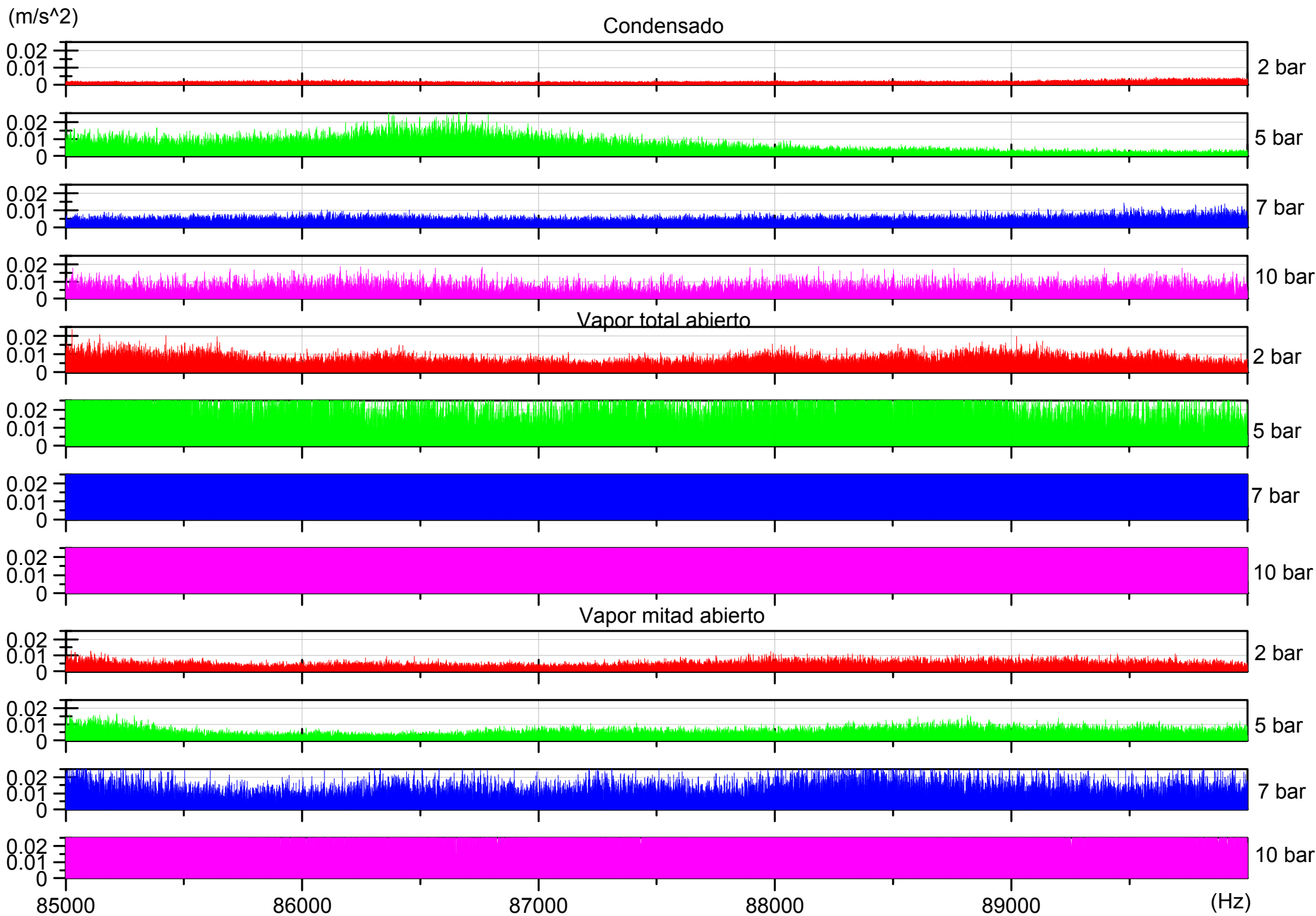






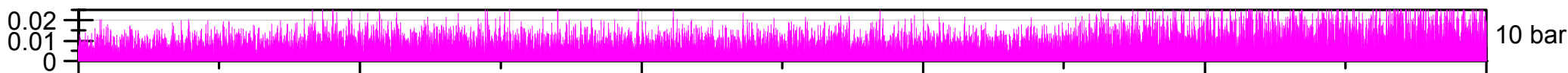
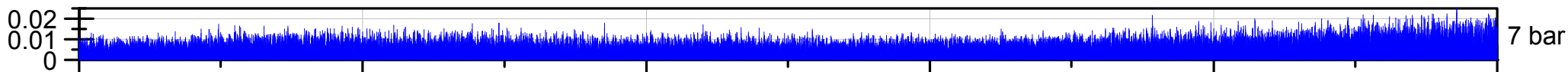
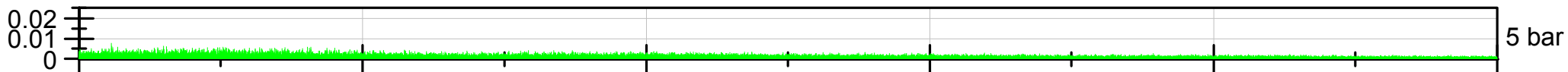
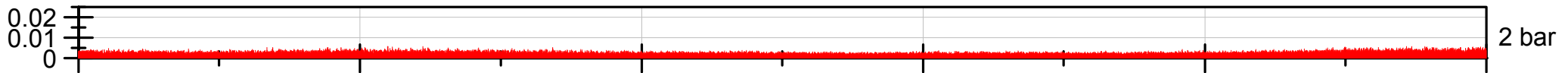




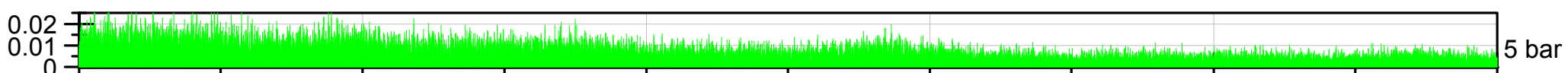


(m/s²)

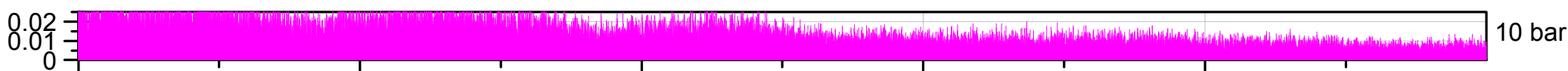
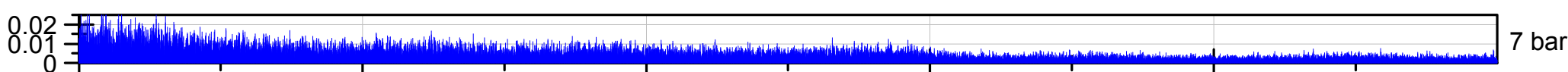
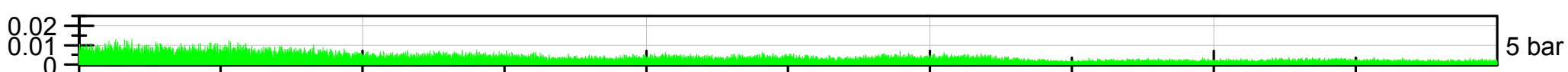
Condensado



Vapor total abierto



Vapor mitad abierto



90000 91000 92000 93000 94000 (Hz)

