

# FTDX101 VC-TUNE by Sylvain F6CIS

## Tests / Measurements of the FTDX-101D "VTC" preselector/ tracking filters

Made by F6CIS SK on 06/01/2020

The measurements were made both VTCs inboard the FTDX-101, transceiver ON, strait connected to the VNA HP-8752A

For the measurements only J3002 and J3003 were disconnected from RX1 Unit and also RX2 Unit for the second VTC

These two pairs of coaxial jumpers from the two VCTs were connected to the VNA (input cables from VCT = J4801 and output from VCT = J4804)

*(Unfortunately the 5 MHz, 50 MHz and 70 MHz bands are not included into VTCs ...)*

Bands covered by each VTCs	INS dB	BP à 10dB	BP à 20dB	BP à 40dB ou 30dB	Notch or up attenuation
<b>1.800 up to 2.000MHz</b>	3			à 40dB	2.353 MHz
1.852MHz	3	49 KHz	155 KHz	1.12 MHz	- 65dB
<b>3.500 up to 4.000MHz</b>	1.3			à 40dB	4.516 MHz
3.577MHz	1.3	119 KHz	363 KHz	2.35 MHz	- 63.7dB
<b>7.000 up to 7.200MHz</b>	1.2			à 40 dB	up 15 MHz
7.150MHz	1.2	238 KHz	771 KHz	4.74 MHz	- 66dB
<b>10.100 up to 10.150MHz</b>	0.5			à 30dB	up 20 MHz
10.125MHz	0.5	352 KHz	1.15 MHz	3.91 MHz	- 36dB
<b>14.000 up to 14.350MHz</b>	0.9			à 30dB	up 25 MHz
14.100MHz	0.9	495 KHz	1.72 MHz	5.76 MHz	- 33dB
<b>18.068 up to 18.168MHz</b>	0.03			à 30dB	up 30 MHz
18.110MHz	0.03	840 KHz	2.8 MHz	10.33 MHz	- 30dB
<b>21.000 up to 21.450MHz</b>	0.01			à 30dB	up 30 MHz
21.100MHz	0.01	823 KHz	2.664 MHz	10.14 MHz	- 31dB
<b>24.890 up to 24.990MHz</b>	0			à 30dB	up 40 MHz
24.930MHz	0	1.09 MHz	3.65 MHz	13.91 MHz	- 31dB
<b>28.000 up to 29.700MHz</b>	0.7			à 30dB	up 40 MHz
28.700MHz	0.7	1.35 MHz	4.583 MHz	16.79 MHz	- 39.8dB