

Magnetek THL-7276SLTX
TCB Response

Battery Endpoint VS. Frequency [2.1055 (d)(2)]

Mobile stations below 2W output power must have an absolute frequency stability of **50 ppm** when operating with a 20 kHz bandwidth.

Test in accordance to conditions called out in Part 2.1055 (d) (2): Frequency stability must be measured down to the battery voltage endpoint. (discharged battery) The 750mW unit was tested, on the low channel, with no modulation applied.

The frequency measurements were made with the FM signal fixed upon the 'mark' signal of the FM/FSK transmission. From this standpoint, the maximum frequency delta of unmodulated signal is 27.8 ppm total.

Battery voltage (vdc)	Frequency (Mhz)	Frequency Delta (hz)	Frequency Delta (PPM)
12.75	72.01313	+130	1.8
12.50	72.01313	+130	1.8
12.13	72.01300	0	0
11.63	72.01300	0	0
10.30	72.01300	0	0
8.00 (note 1)	72.01500	+2000	27.8

Note 1; At the 8.0 VDC voltage level, although the RF transmitter is still operating, the data modulating stages of the transmitter no longer will operate, and the power LED does not display, which warns the user that the transmitter will no longer operate in a viable fashion.