

George Tannahill
Ref: FCC ID: IFHHP-MIM75
Confirmation # EA94733

Per your 6 Dec 1999 inquiry , correspondence ref. # 10947:

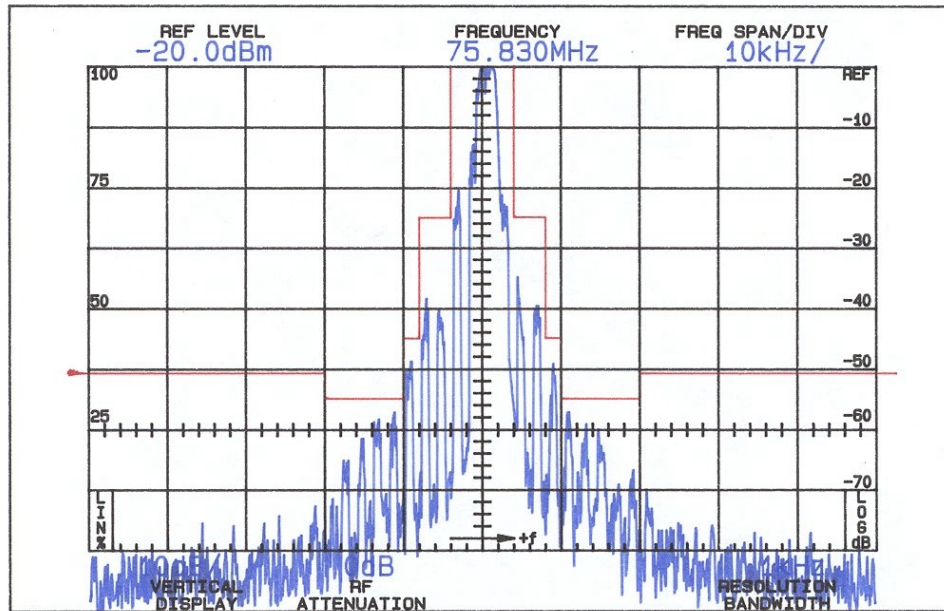
1. Necessary bandwidth computation: system deviation 2.1 kHz. Nominal modulation frequency: 1000 Hz.

$$2D + 2M = N.B.$$

$$4.2 \text{ kHz} + 2 \text{ kHz} = 6.2 \text{ or } 6\text{k}2\text{F}1\text{D}$$

2. Modulation is not FSK. Transmitter frequency is crystal controlled oscillator modulated by a varicap driven by six cycles of nominal 1 mS duration equivalent to a 1 kHz tone. (See Figure 2). This pattern is repeated at a nominal 20 millisecond rate.
3. Plot of occupied bandwidth with limits of 95.635 is included as Figure 1a (note that using a 100 kHz RBW does not resolve the modulation, see Figure 1b). Unmodulated carrier plot is Figure 1c.

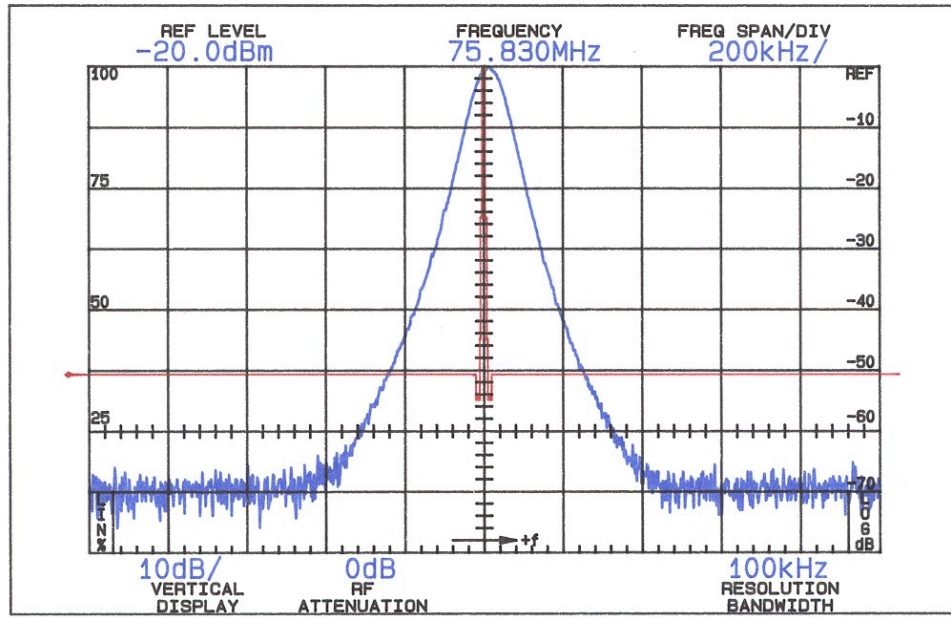
FIGURE 1a



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OCCUPIED BANDWIDTH
RBW 1 kHz, No Video Filter

FIGURE 1a

FIGURE 1b

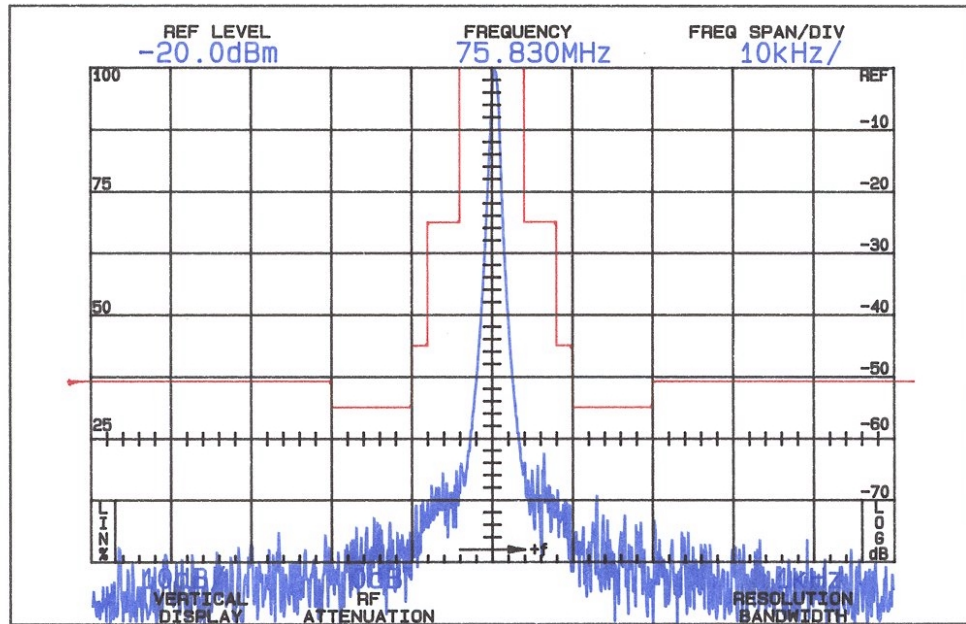


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OCCUPIED BANDWIDTH
RBW 100 kHz, No Video Filtering

(Modulation is not resolved with this RBW)

FIGURE 1b

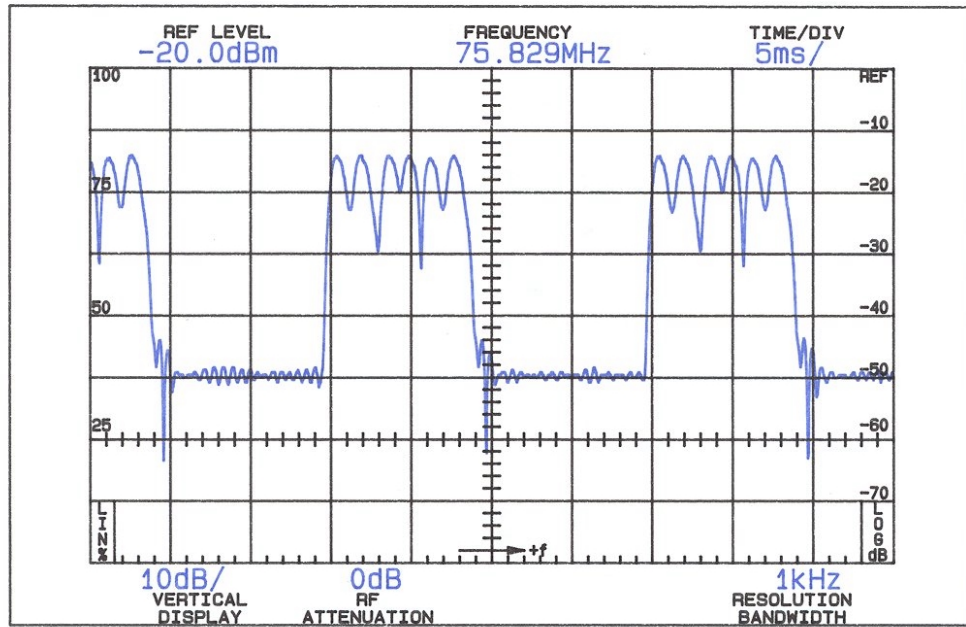
FIGURE 1c



FCC ID: IFHHP-MIM75
OCCUPIED BANDWIDTH
RBW 1 kHz, No Video Filtering
Unmodulated Carrier Reference

FIGURE 1c

FIGURE 2



FCC ID: IFHHP-MIM75
TIME DOMAIN
5 mS/Div (Slope Detection)

FIGURE 2