Applicant: Motorola Equipment type: LX698FC4007

EMISSION DESIGNATORS AND BANDWIDTH CALAULATIONS

The subject transmitter uses multiple (3) FM Sub-carriers modulated with 3 level FSK. The positioning of the sub-carriers for three sub-carrier operation will be 0 KH and ± 12.5 KHz from the carrier. In the event the subject transmitter is required to transmit three sub-carriers, P0 to P2 will be used.

THREE sub-carriers: 33K0F2D (Figure 2.)

- The sub-carriers are offset from fc at -12.5 KHz, 0 KHz and +12.5 KHz.
- The Lower sub-carrier' LSB (Lower Side Band) has a BW of 4 KHz (½ the BW of a single sub-channel).
- The Upper sub-carrier' USB (Upper Side Band) has a BW of 4 KHz (½ the BW of a single sub-channel).
- The lower and upper sub-carriers are spaced 25 KHz apart.

$$BW = 4 KHz + 25 KHz + 4 KHz$$
$$= 33 KHz$$

Note: Previous sub-carrier configurations will remain the same.

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