1196 Borregas Ave., Sunnyvale, CA 94089-1302, USA
Tel: +1 (408) 542-5200, Fax: +1 (408) 542-5300

Apr. 9, 01

To Whom It May Concern:

**Subject: Compliance to 15.407(g)**

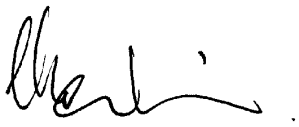
Emissions of the HZB-U53-45 equipment will be maintained within the band under all conditions of normal operation under the worst case of frequency shift. For your reference, the following table shows the specifications of the determining oscillators and the total frequency stability of the equipment over the full operating temperature range.

The data shown on the table covers the worst frequency shift situation within the full operating temperature range of –30 to +65C specified for the equipment under application. The oscillators are crystal types.

| | **5.3 GHz Transmitter** |
|---|---|
| Fundamental Oscillator (PN: 1900012-414000-000) | 140MHz ± 10ppm<br>or ±1.4 kHz |
| RF reference Oscillator (PN: 4820720-401200-000) | (12 MHz ± 5ppm) x 432.125<br>or ±25.93kHz |
| Total Frequency Stability | ±27.33kHz |

The supporting reasoning for the claim is as follows:

a) The lowest channel center frequency is 5275 MHz, with a 26dBc width of 37.5 MHz. The margin below the 26dBc points to the lower band edge is 6.25 MHz.
b) The highest channel center frequency is 5325 MHz with a 26dBc width of 37.3 MHz. The margin above the 26dBc points to the upper band edge is 6.35 MHz.
c) Therefore, the frequency stability of the frequency-determining element must be no worse than 0.118% (min (6.25 MHz/5270 MHz, 6.35 MHz/5325 MHz) over the normal operating range to maintain the emissions within the allowed band. From the above table, it can be seen that the frequency-determining components offer much superior stability to ensure the compliance to 15.407(g).



Caroline Yu

Homologation Product Manager
Western Multiplex Corporation