Exhibit F3
Field Strength of Spurious Radiation

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CAGEC 4V792

1 Exhibit F3 – Field Strength of Spurious Radiation

The measurements in this section have been resubmitted from Rockwell Collins' previous FCC Equipment Authorization Application for HST-2110 (FCC ID: AJK8222231) and HST-2120 (FCC ID: AJK8222233).

The internal hardware of the HST-2110B and HST-2120B are the same as the HST-2110 and HST-2120. Although some RF emission differences are expected (caused by the new RF waveform to support the SwiftBroadband service), these differences are present at the transmitter output terminal and not from spurious radiation exiting the chassis of the HST-2110B and HST-2120B. Transmitter emission results are provided elsewhere in this report. Therefore, the field strength of spurious radiation test results are not impacted by the addition of SwiftBroadband.

The test results in this section have been extracted from the report documenting the testing of the equipment to RTCA DO-160D, Section 21, Category M. This test measures the emissions radiated from the equipment case and any interconnecting cables.

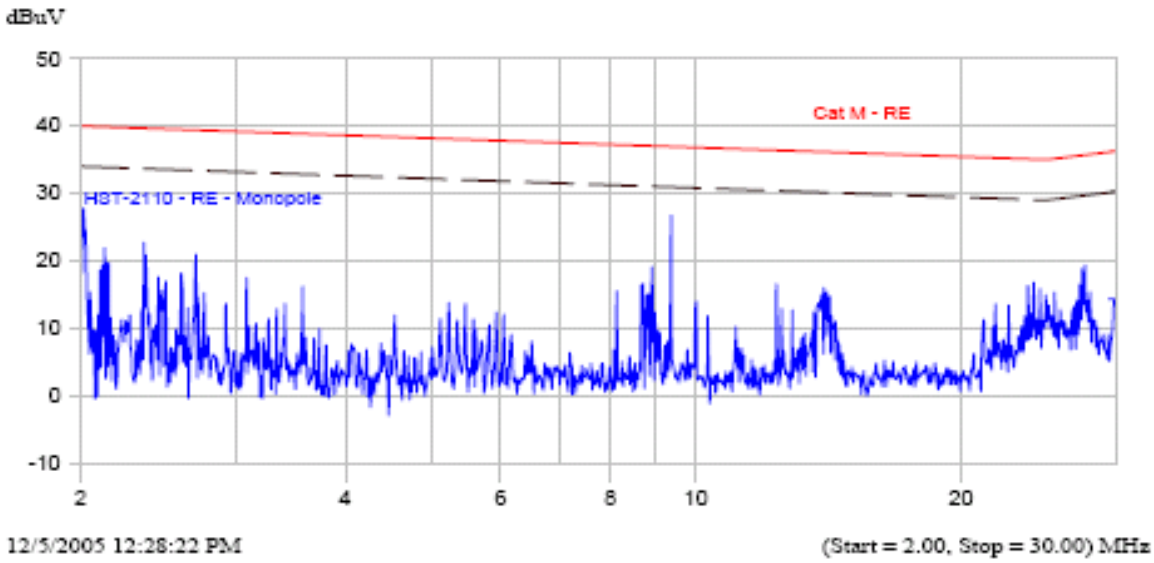

Figure 1 - Radiated Emissions - Monopole Antenna 2-30 MHz

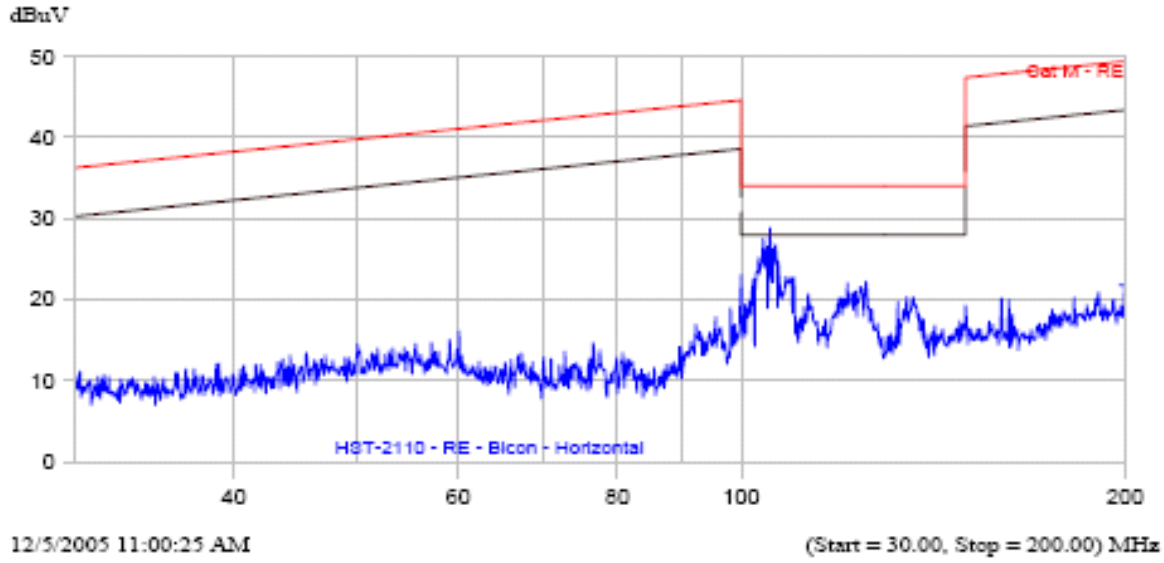

Figure 2 - Radiated Emissions - Horizontal Bicon Antenna 30-200 MHz

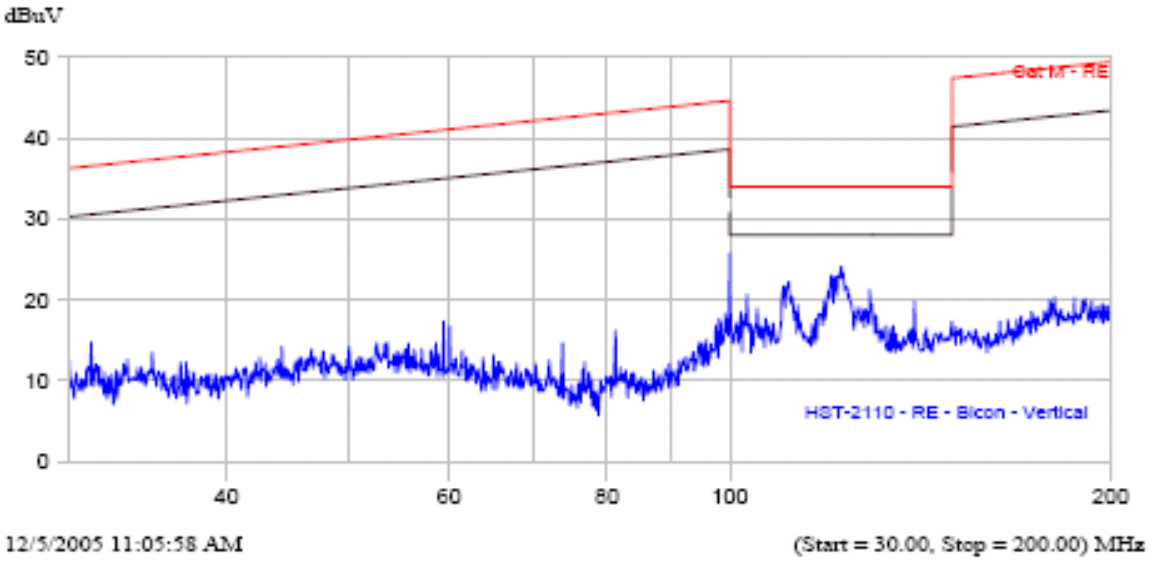

Figure 3 - Radiated Emissions - Vertical Bicon Antenna 30-200 MHz

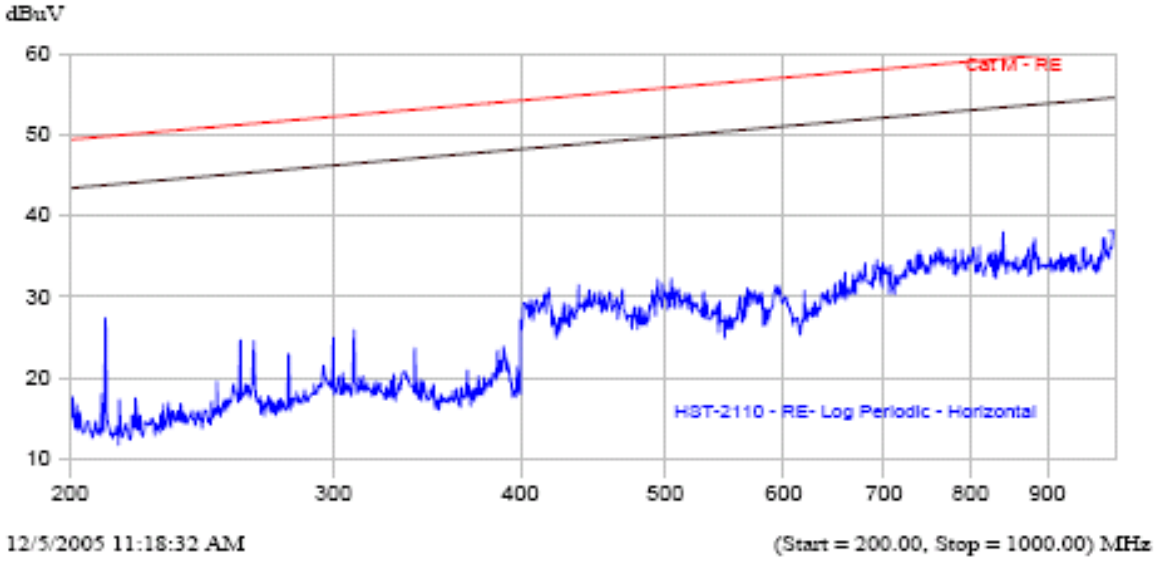

Figure 4 - Radiated Emissions - Horizontal Horn Antenna 200-1000 MHz

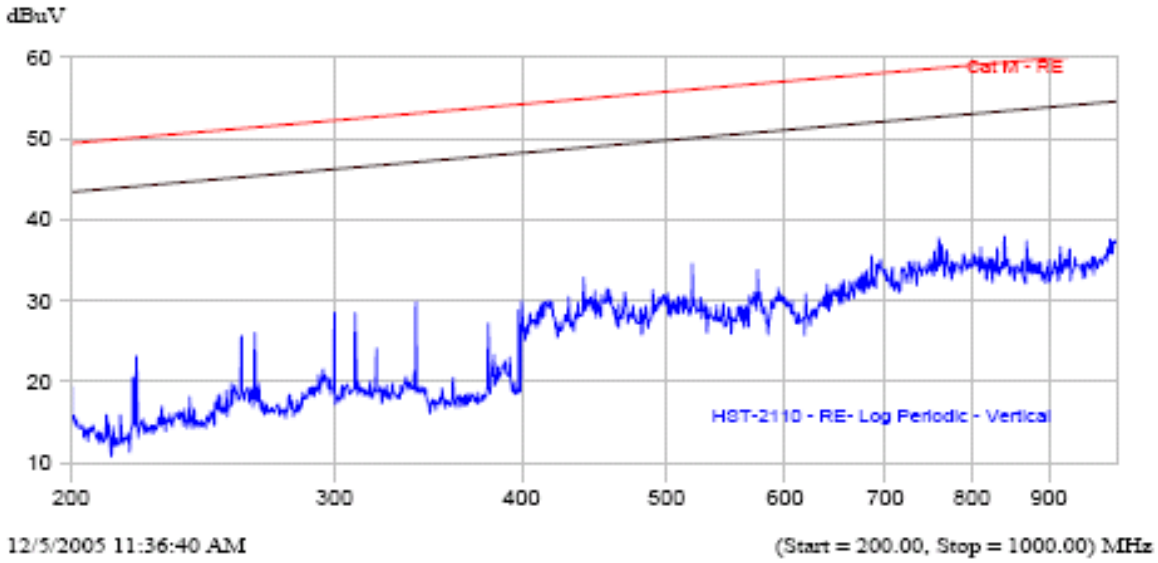

Figure 5 - Radiated Emissions - Vertical Horn Antenna 200-1000 MHz

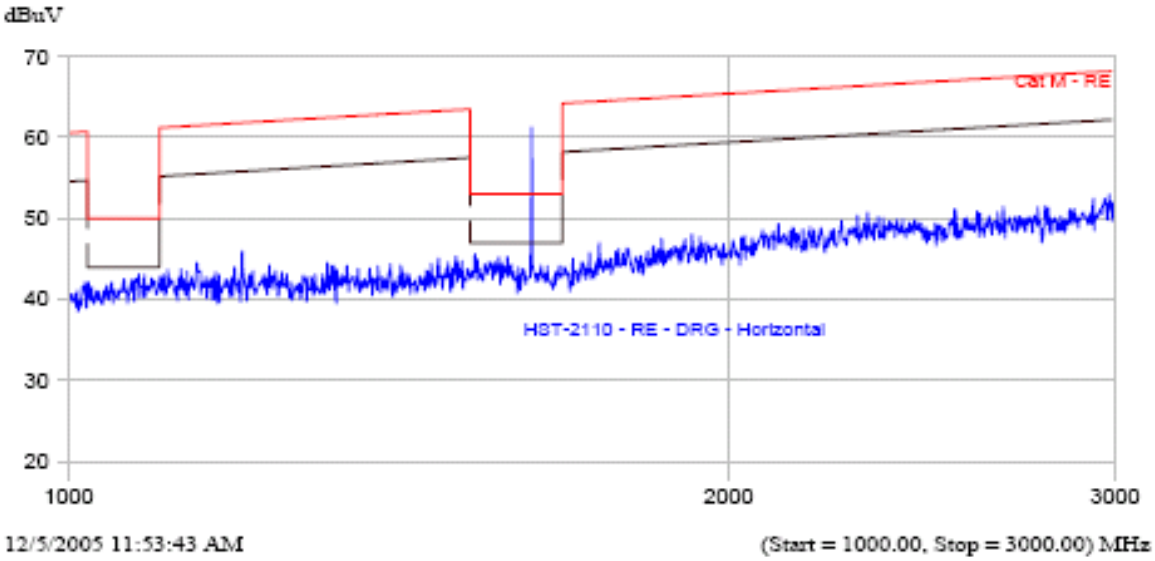

Figure 6 - Radiated Emissions - Horizontal Horn Antenna 1000-3000 MHz

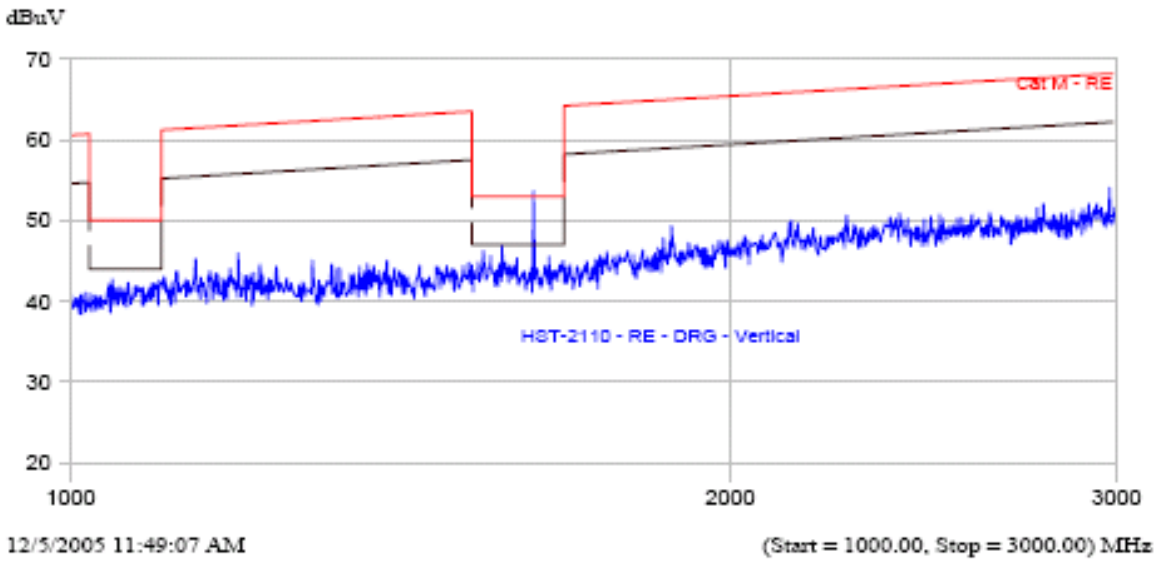

Figure 7- Radiated Emissions - Vertical Horn Antenna 1000-3000 MHz

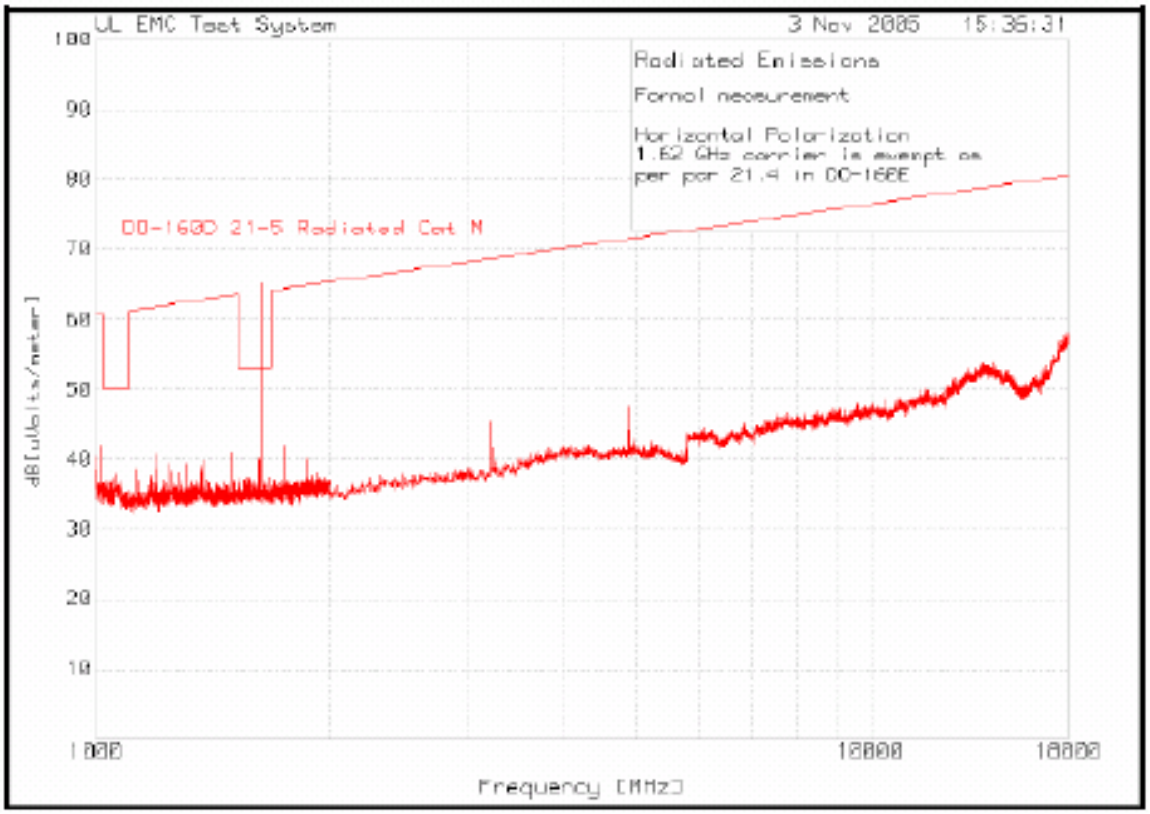

Figure 8 - Radiated Emissions - Horizontal Horn Antenna 1000-18000 MHz

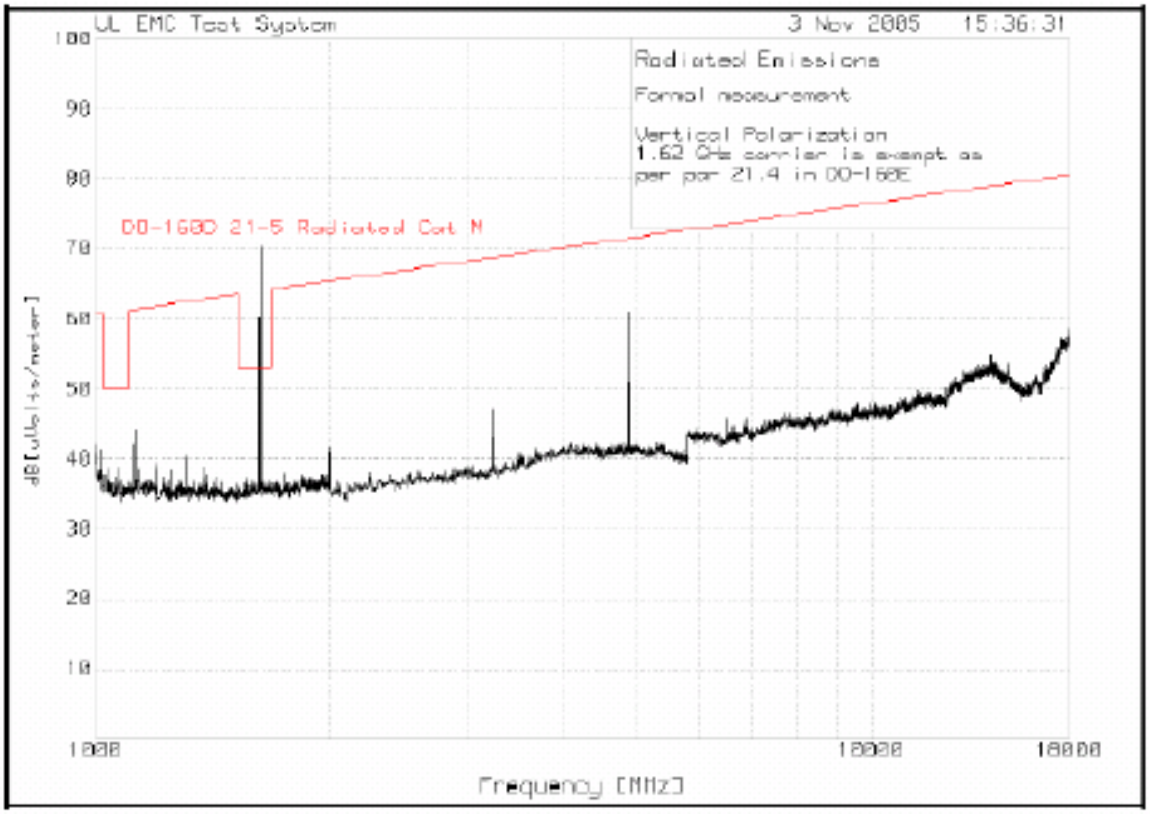

Figure 9 - Radiated Emissions - Vertical Horn Antenna 1000-18000 MHz

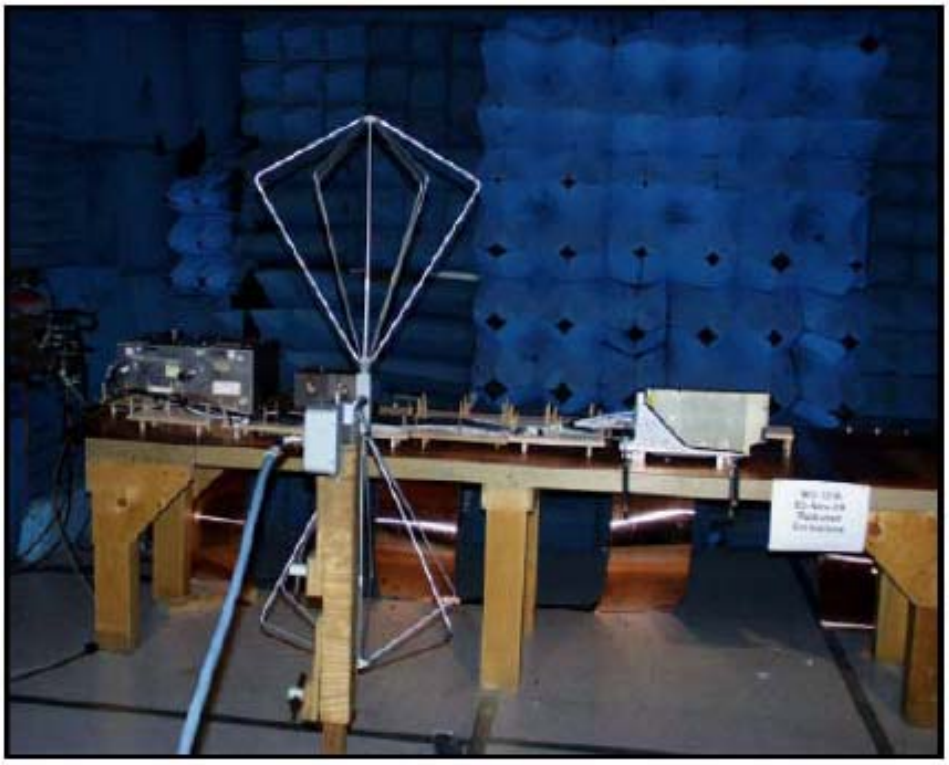

Figure 10 - Radiated Emissions Test Setup – MPB

Figure 11 - Radiated Emissions Test Setup – MPB

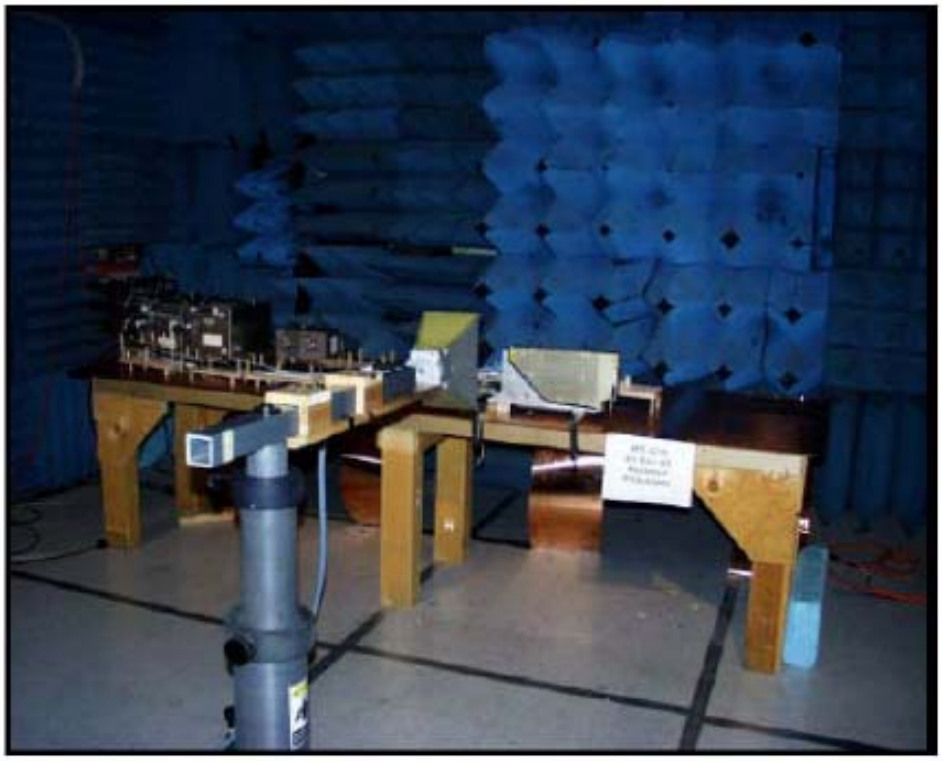

Figure 12 - Radiated Emissions Test Setup - MPB