

**Figure 6-11: Quad-QPSK Modulation Performance Relative to Mask 47 CFR FCC 90-691(a),
Maximum Power Setting:**

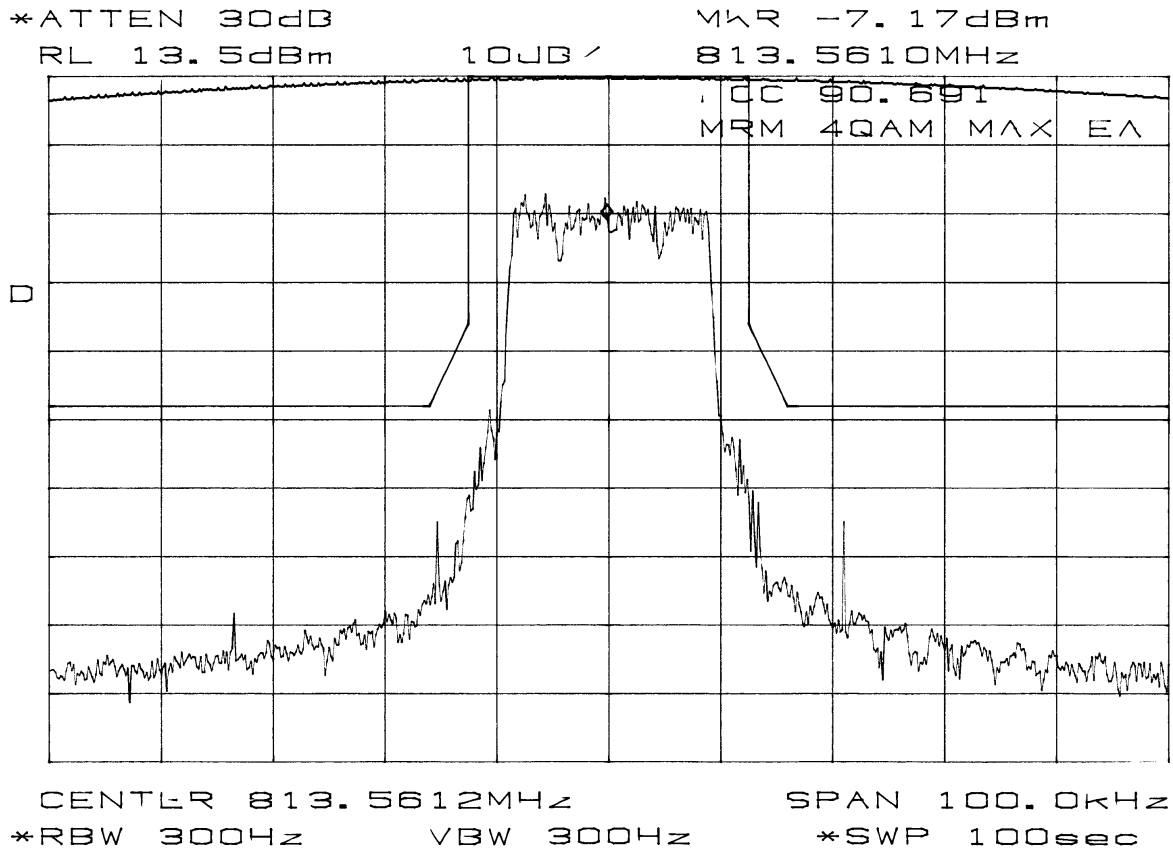


Figure 6-12: Quad-QPSK Modulation Performance Relative to Mask 47 CFR FCC 90-691(a),
Minimum Power Setting:

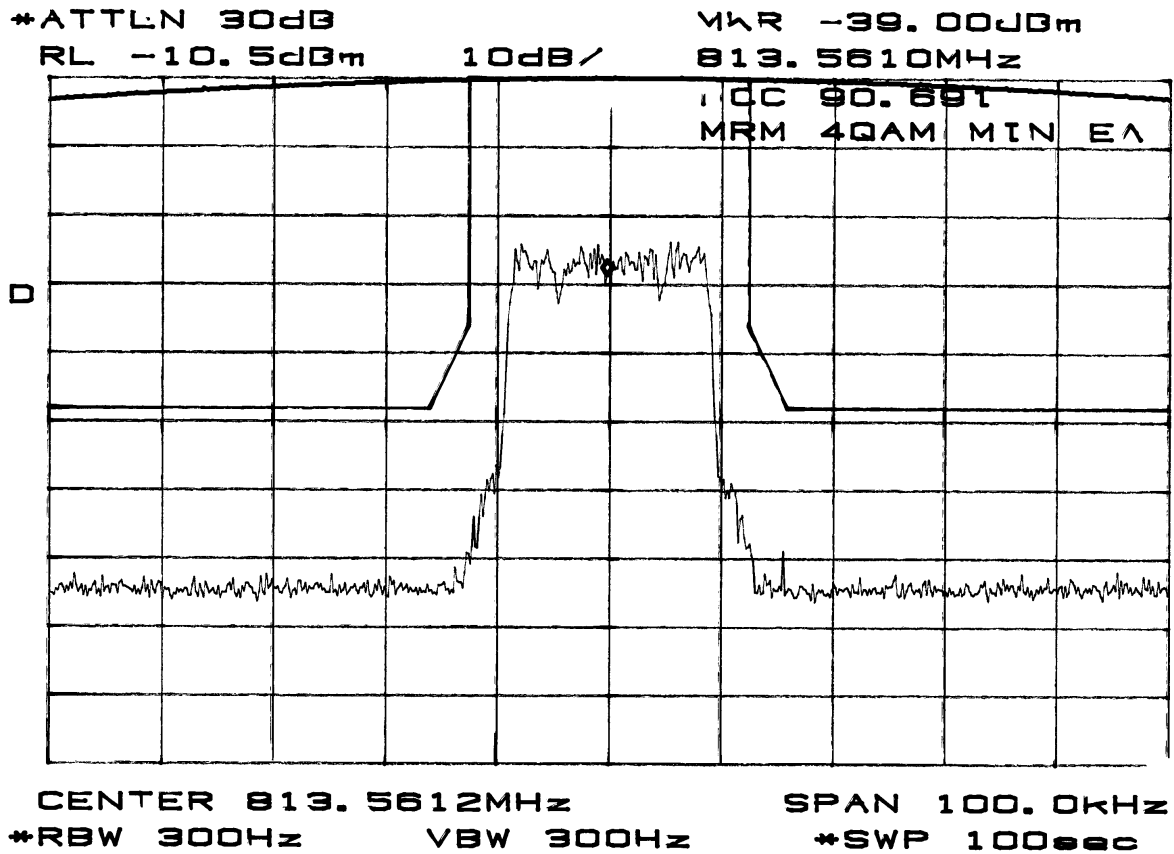


Figure 6-13: Quad-16QAM Modulation Performance Relative to Mask 47 CFR FCC 90-691(a),
Maximum Power Setting:

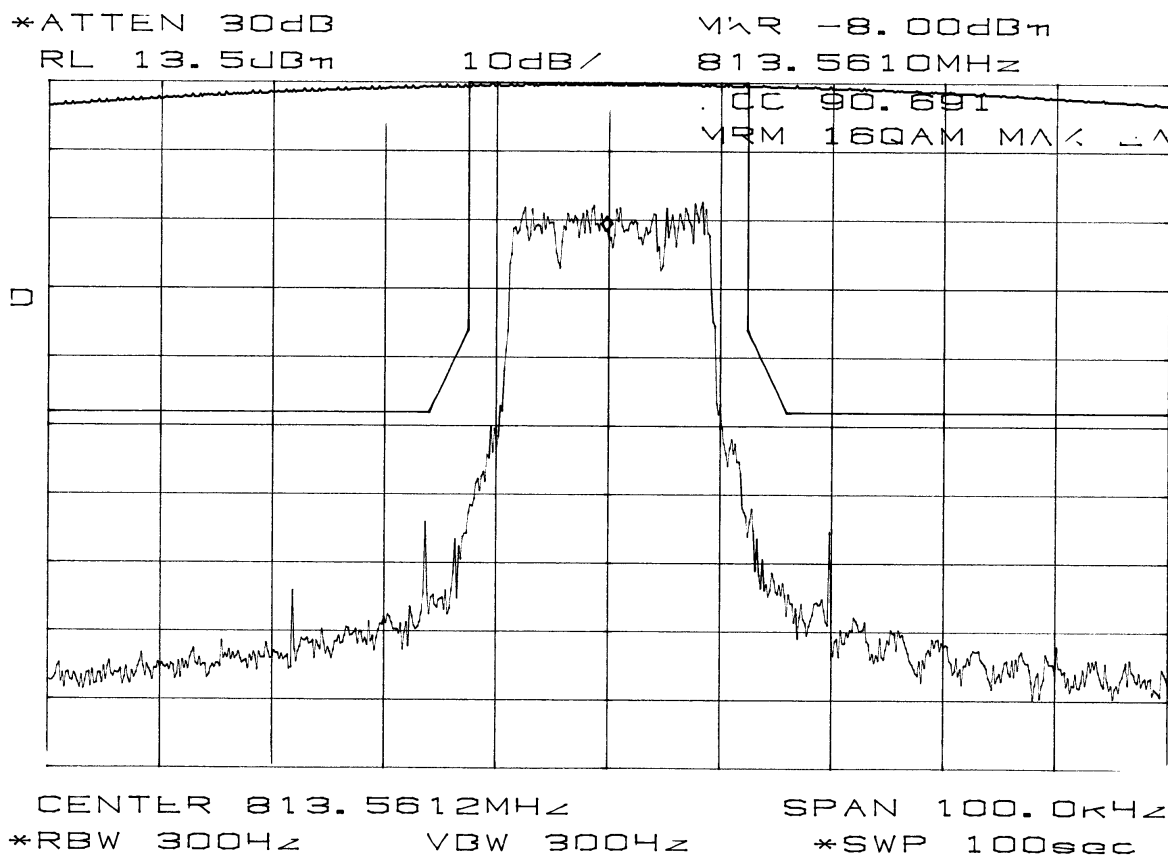
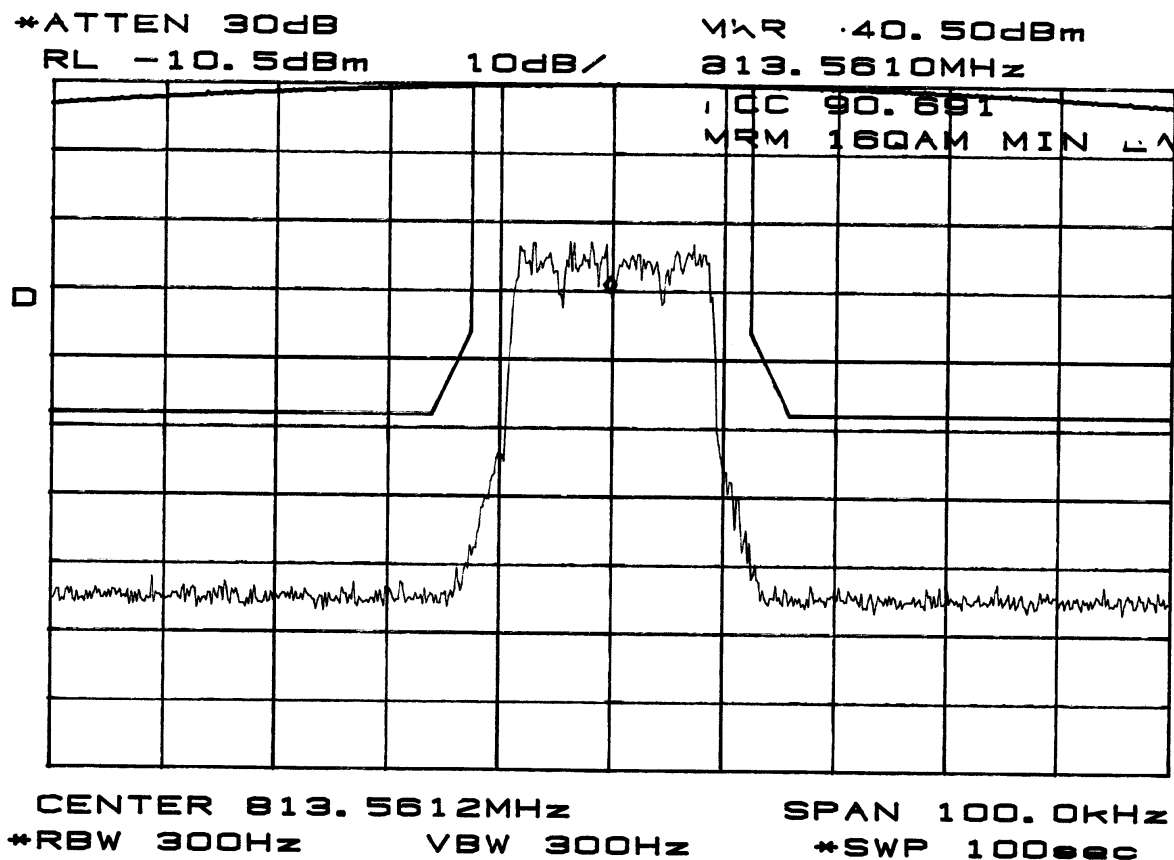
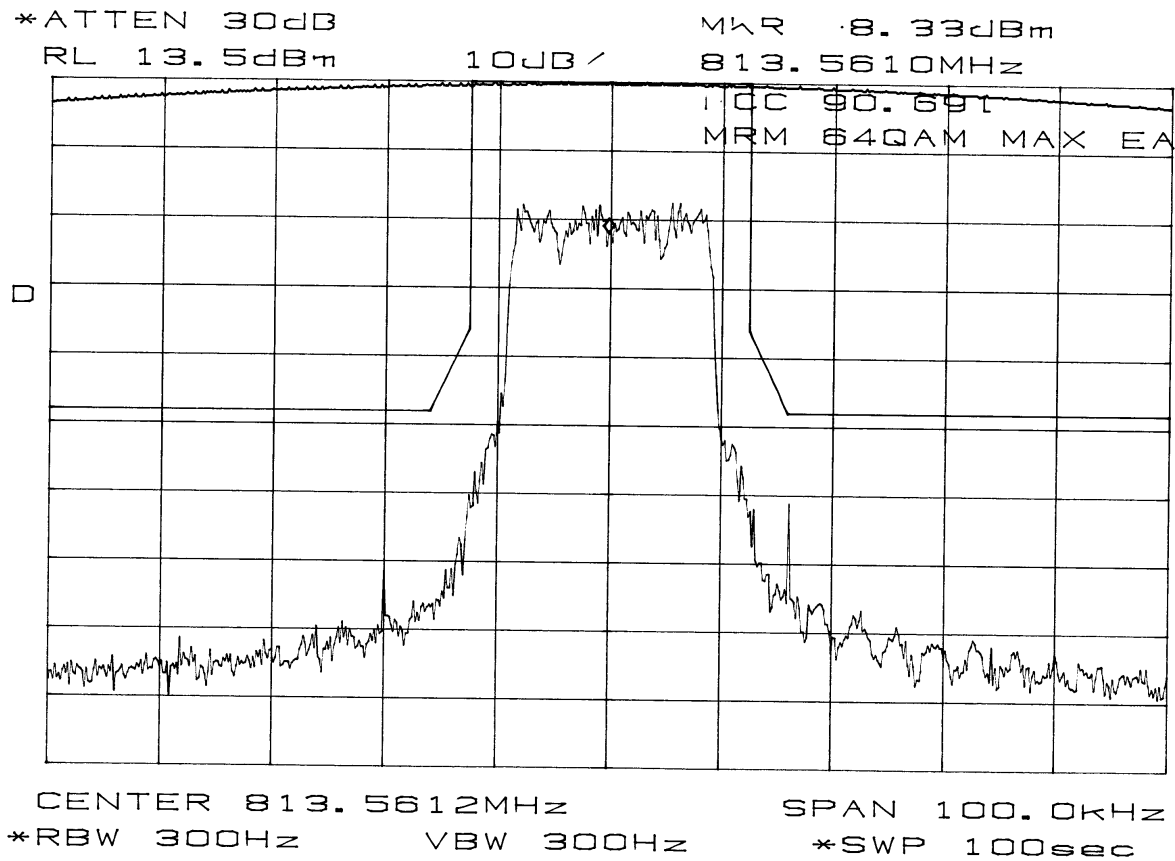


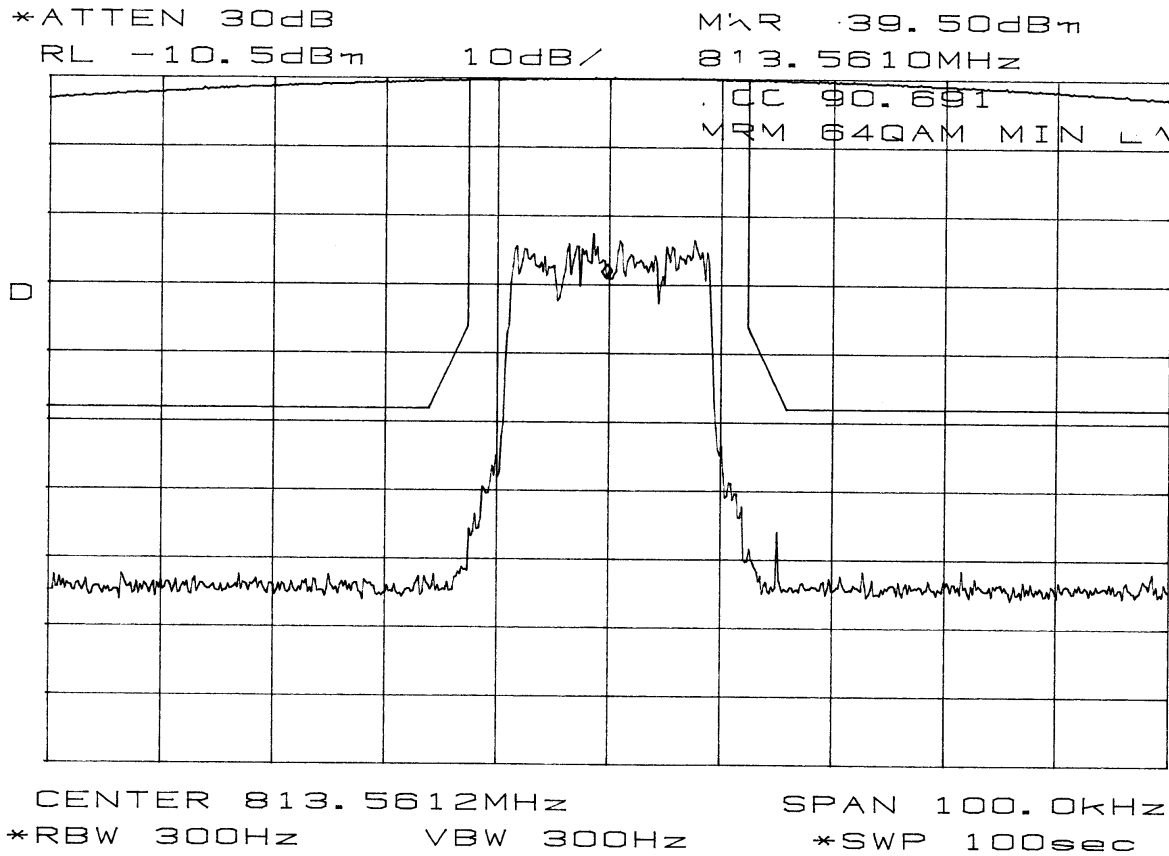
Figure 6-14: Quad-16QAM Modulation Performance Relative to Mask 47 CFR FCC 90-691(a),
Minimum Power Setting:



**Figure 6-15: Quad-64QAM Modulation Performance Relative to Mask 47 CFR FCC 90-691(a),
Maximum Power Setting:**



**Figure 6-16: Quad-64QAM Modulation Performance Relative to Mask 47 CFR FCC 90-691(a),
Minimum Power Setting:**



6.4. Radiated Spurious Emissions Data -- Pursuant 47 CFR 2.1053, 2.1057, 90.210(g) and 90.691(a).

FCC Limits

Radidated spurious emissions shall be attenuated below the maximum level of emission of the carrier frequency in accordance with the following formula:

Spurious attenuation (dB) = $43 + 10 \log_{10} (P)$, P = Power output in watts.

Fig. 6-17: Radiated Transmitter Emissions, Tx frequency 813.5625 MHz, Maximum Power, and Horizontally Polarized Antenna.

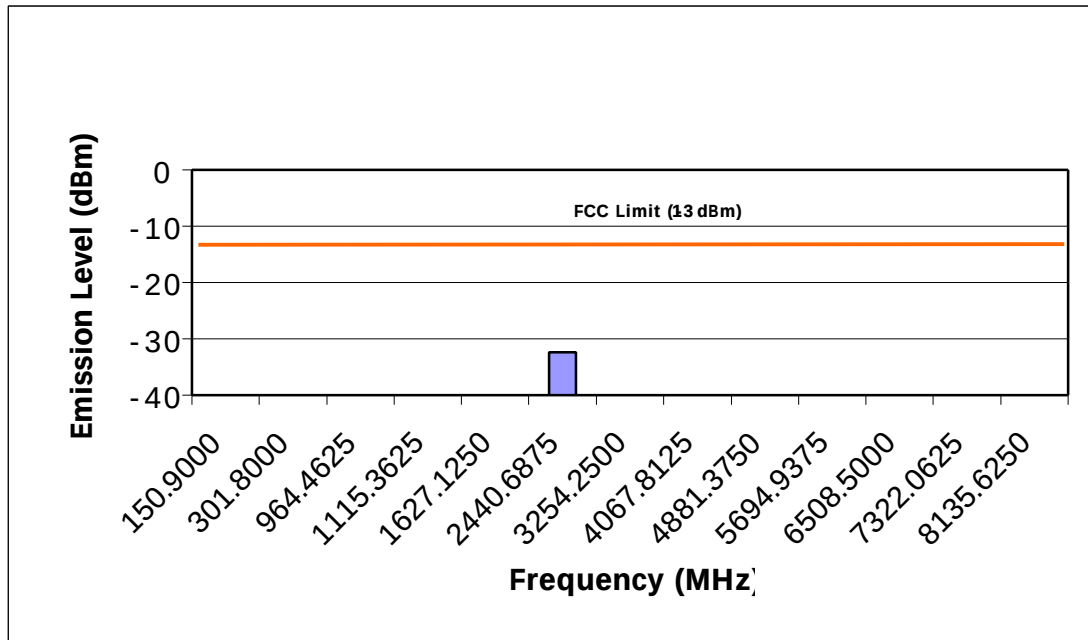


Table 6-1: Radiated Transmitter Emissions, Tx frequency 813.5625 MHz, Maximum Power, and Horizontally Polarized Antenna.

Title	Frequency (MHz)	FCC Maximum Emission Limit (dBm)	Measured Emission Equivalent Power Into an Ideal Dipole (dBm)
IF	150.9000	-13	<-40
2X IF	301.8000	-13	<-40
LO	964.4625	-13	<-40
IF + LO	1115.3625	-13	<-40
2X FUND	1627.1250	-13	<-40
3X FUND	2440.6875	-13	-32.39
4X FUND	3254.2500	-13	<-40
5X FUND	4067.8125	-13	<-40
6X FUND	4881.3750	-13	*
7X FUND	5694.9375	-13	*
8X FUND	6508.5000	-13	*
9X FUND	7322.0625	-13	*
10XFUND	8135.6250	-13	*

Note: Measured noise floor (-93 dBm), limited by test setup and equipment.

Fig. 6-18: Radiated Transmitter Emissions, Tx frequency 813.5625 MHz, Maximum Power, and Vertically Polarized Antenna.

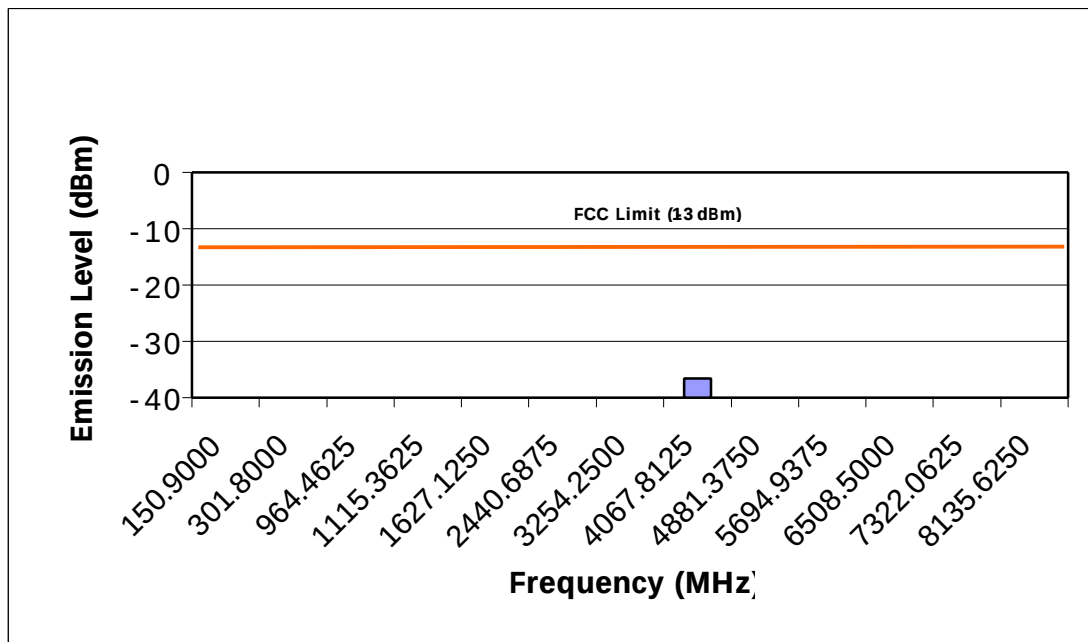


Table 6-2: Radiated Transmitter Emissions, Tx frequency 813.5625 MHz, Maximum Power, and Vertically Polarized Antenna.

Title	Frequency (MHz)	FCC Maximum Emission Limit (dBm)	Measured Emission Equivalent Power Into an Ideal Dipole (dBm)
IF	150.9000	-13	<-40
2X IF	301.8000	-13	<-40
LO	964.4625	-13	<-40
IF + LO	1115.3625	-13	<-40
2X FUND	1627.1250	-13	<-40
3X FUND	2440.6875	-13	<-40
4X FUND	3254.2500	-13	-36.6
5X FUND	4067.8125	-13	<-40
6X FUND	4881.3750	-13	*
7X FUND	5694.9375	-13	*
8X FUND	6508.5000	-13	*
9X FUND	7322.0625	-13	*
10XFUND	8135.6250	-13	*

Note: Measured noise floor (-93 dBm), limited by test setup and equipment.

Table 6-3: Radiated Transmitter Emissions, Tx frequency 813.5625 MHz, Minimum Power, and Horizontally Polarized Antenna.

Title	Frequency (MHz)	FCC Maximum Emission Limit (dBm)	Measured Emission Equivalent Power Into an Ideal Dipole (dBm)
IF	150.9000	-13	<-40
2X IF	301.8000	-13	<-40
LO	964.4625	-13	<-40
IF + LO	1115.3625	-13	<-40
2X FUND	1627.1250	-13	<-40
3X FUND	2440.6875	-13	<-40
4X FUND	3254.2500	-13	<-40
5X FUND	4067.8125	-13	<-40
6X FUND	4881.3750	-13	*
7X FUND	5694.9375	-13	*
8X FUND	6508.5000	-13	*
9X FUND	7322.0625	-13	*
10XFUND	8135.6250	-13	*

Table 6-4: Radiated Transmitter Emissions, Tx frequency 813.5625 MHz, Minimum Power, and Vertically Polarized Antenna.

Title	Frequency (MHz)	FCC Maximum Emission Limit (dBm)	Measured Emission Equivalent Power Into an Ideal Dipole (dBm)
IF	150.9000	-13	<-40
2X IF	301.8000	-13	<-40
LO	964.4625	-13	<-40
IF + LO	1115.3625	-13	<-40
2X FUND	1627.1250	-13	<-40
3X FUND	2440.6875	-13	<-40
4X FUND	3254.2500	-13	<-40
5X FUND	4067.8125	-13	<-40
6X FUND	4881.3750	-13	*
7X FUND	5694.9375	-13	*
8X FUND	6508.5000	-13	*
9X FUND	7322.0625	-13	*
10XFUND	8135.6250	-13	*

Note: Measured noise floor (-93 dBm), limited by test setup and equipment.