

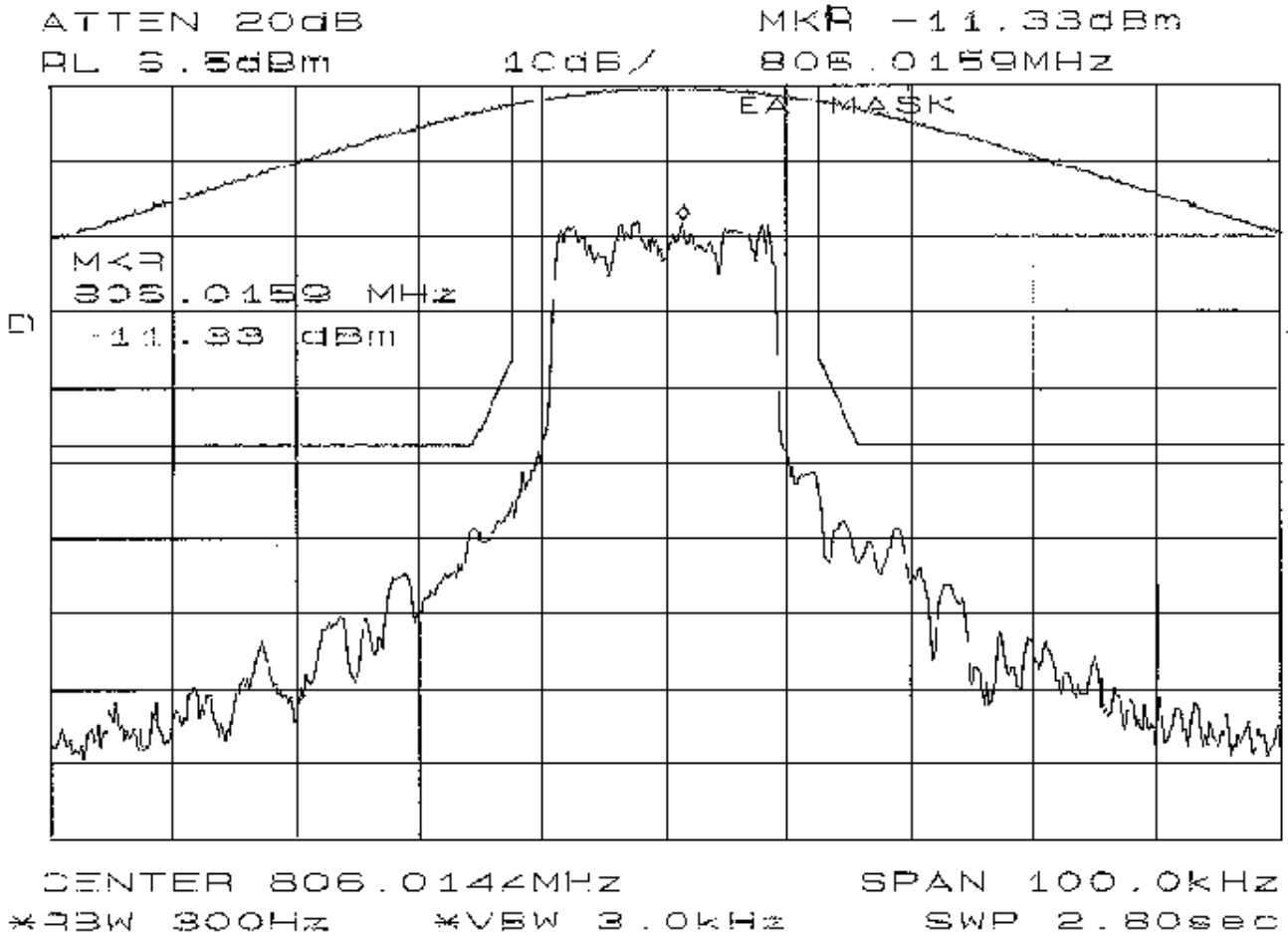
Figure 6-11: Quad-QPSK Modulation performance relative to mask 47 CFR FCC 90-691(a).**MAX. POWER (600mW):**

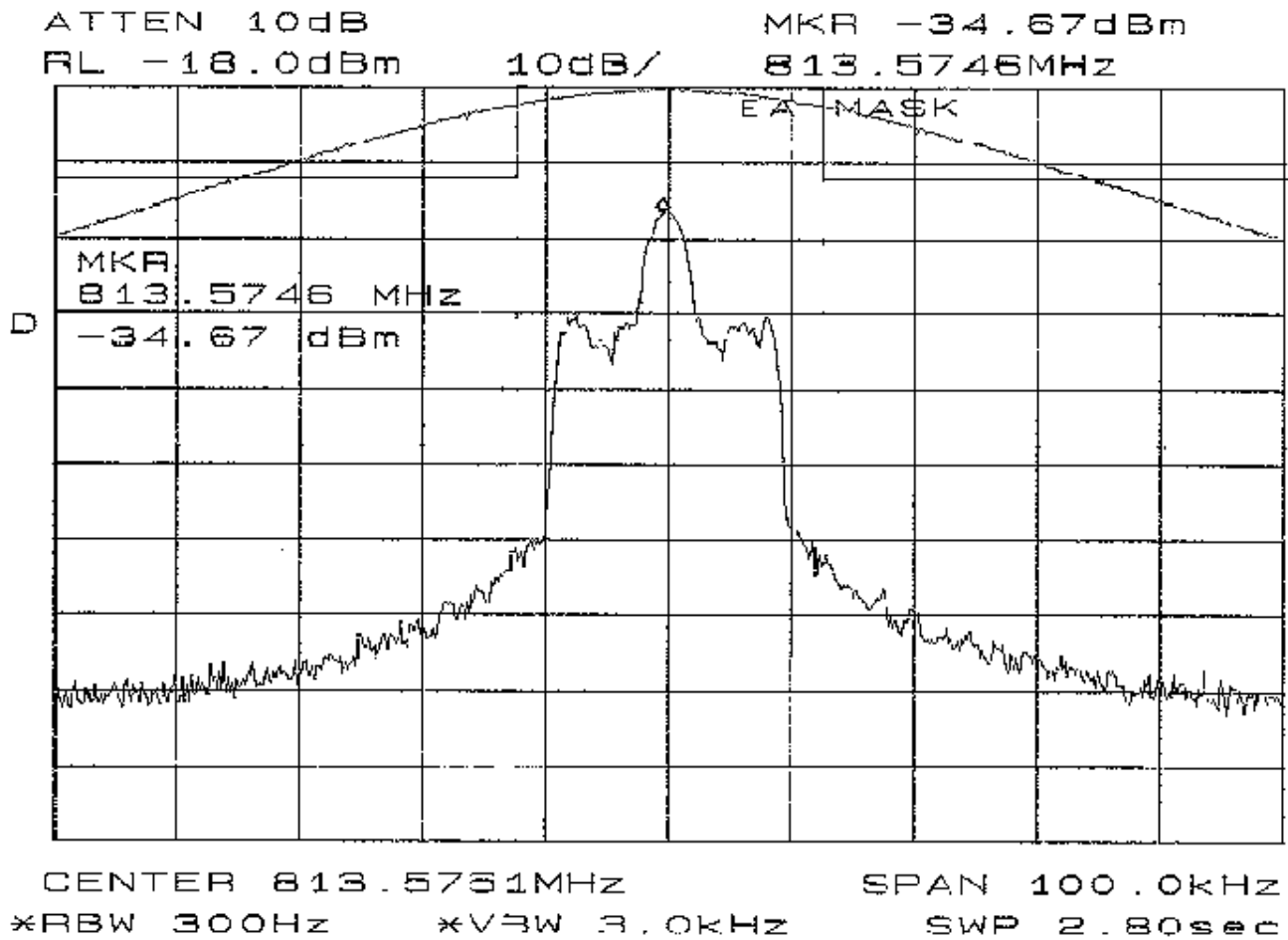
Figure 6-12: Quad-QPSK Modulation performance relative to mask 47 CFR FCC 90-691(a).**MIN. POWER (0.20mW):**

Figure 6-13: Quad-16QAM Modulation performance relative to mask 47 CFR FCC 90-691(a).
MAX. POWER (600mW):

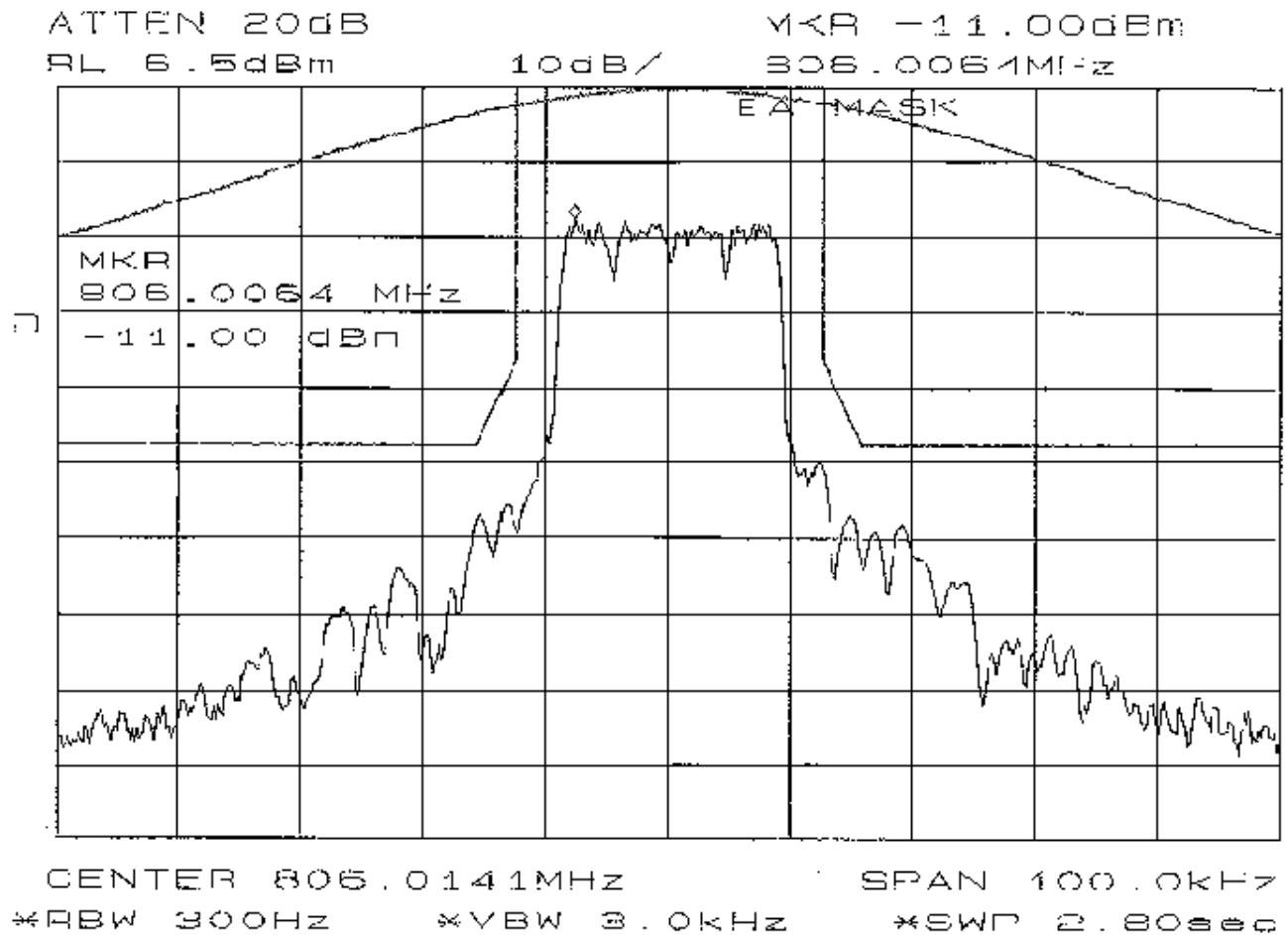


Figure 6-14: Quad-16QAM Modulation performance relative to mask 47 CFR FCC 90-691(a).
MIN. POWER (0.20mW):

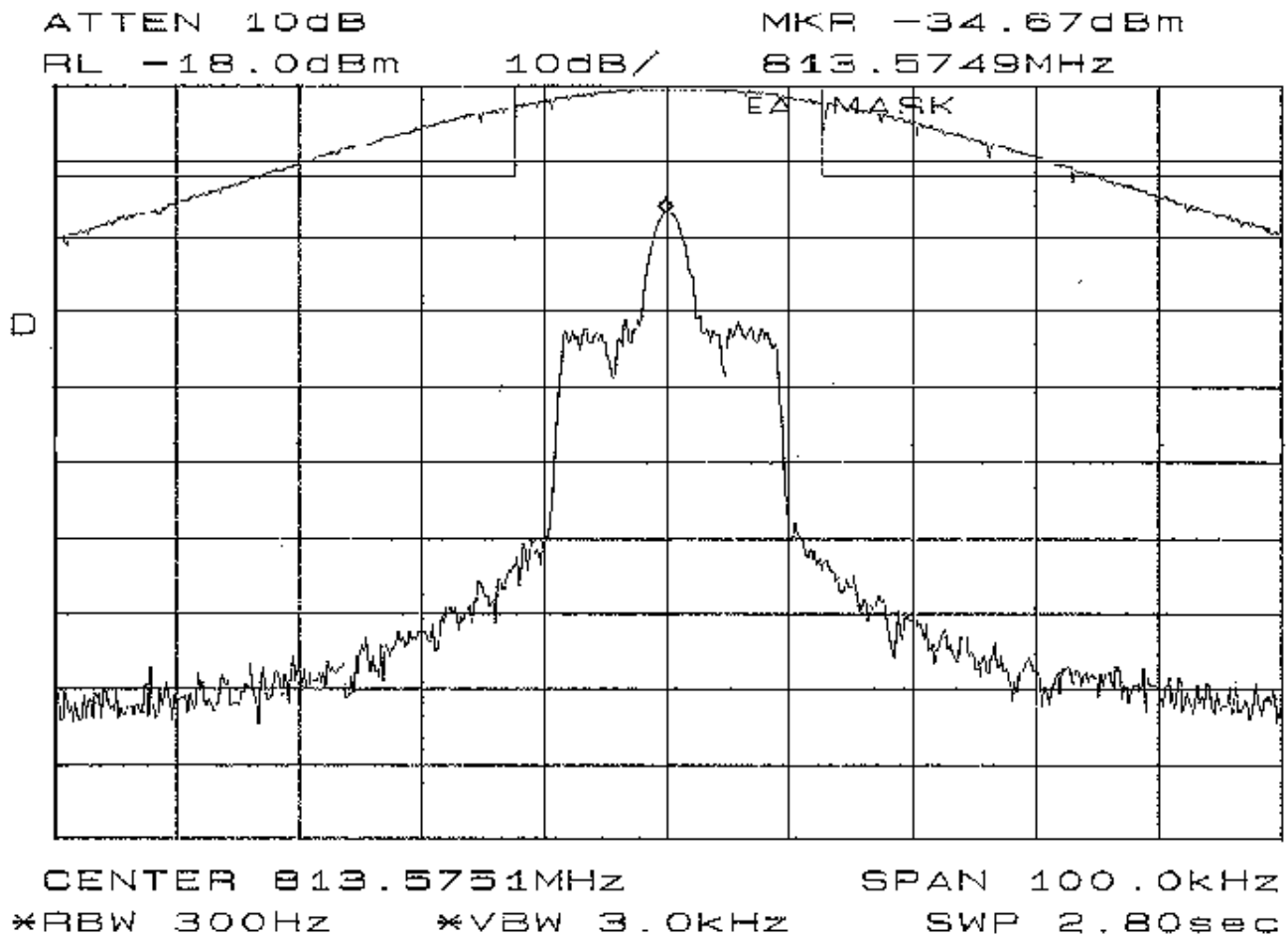


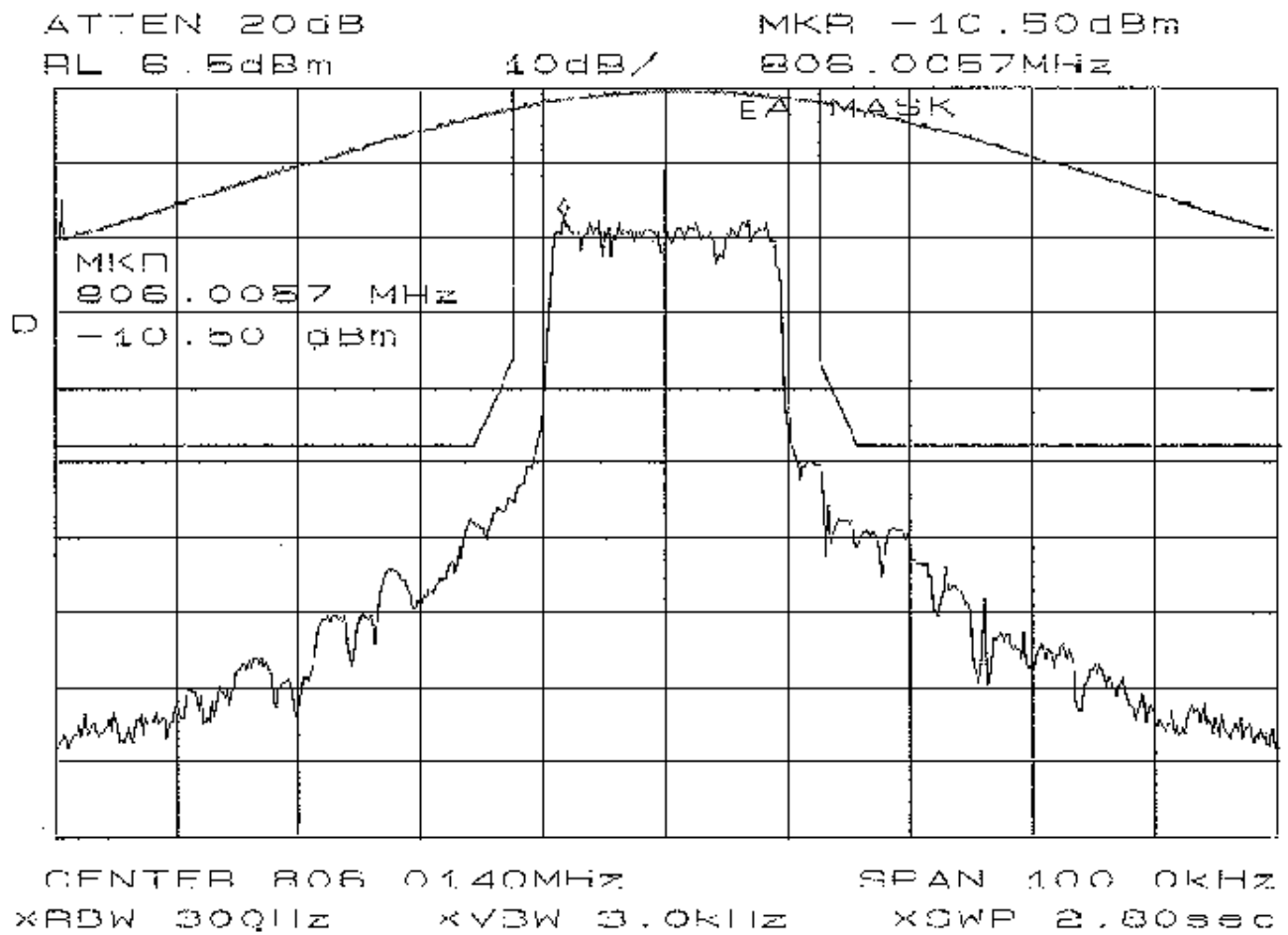
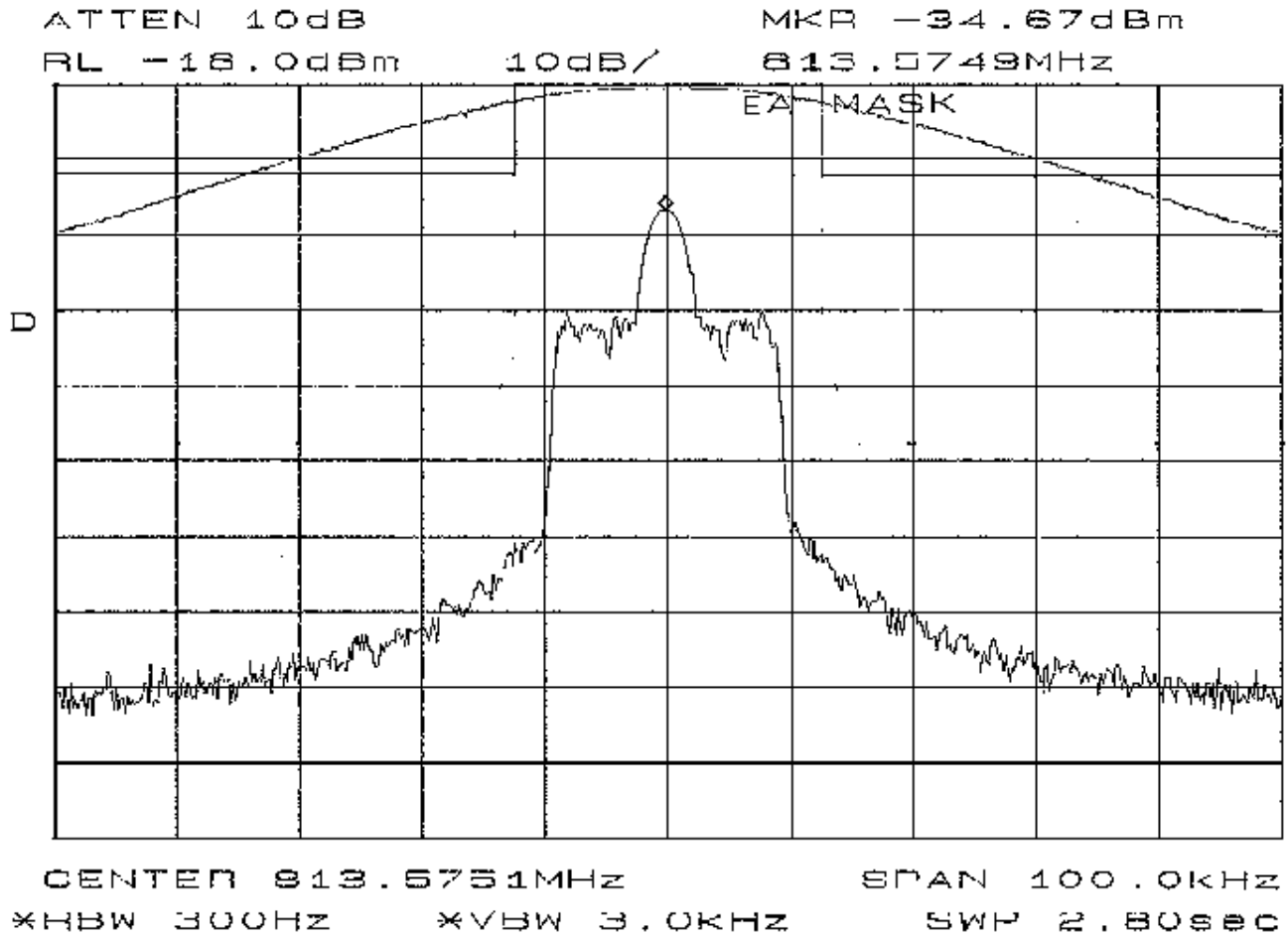
Figure 6-15: Quad-64QAM Modulation performance relative to mask 47 CFR FCC 90-691(a).**MAX. POWER (600mW):**

Figure 6-16: Quad-64QAM Modulation performance relative to mask 47 CFR FCC 90-691(a).
MIN. POWER (0.20mW):



6.4. *Radiated Spurious Emissions Data*

-- Pursuant 47 CFR 2.993, 2.997, 90.210(g) and 90.691(a)

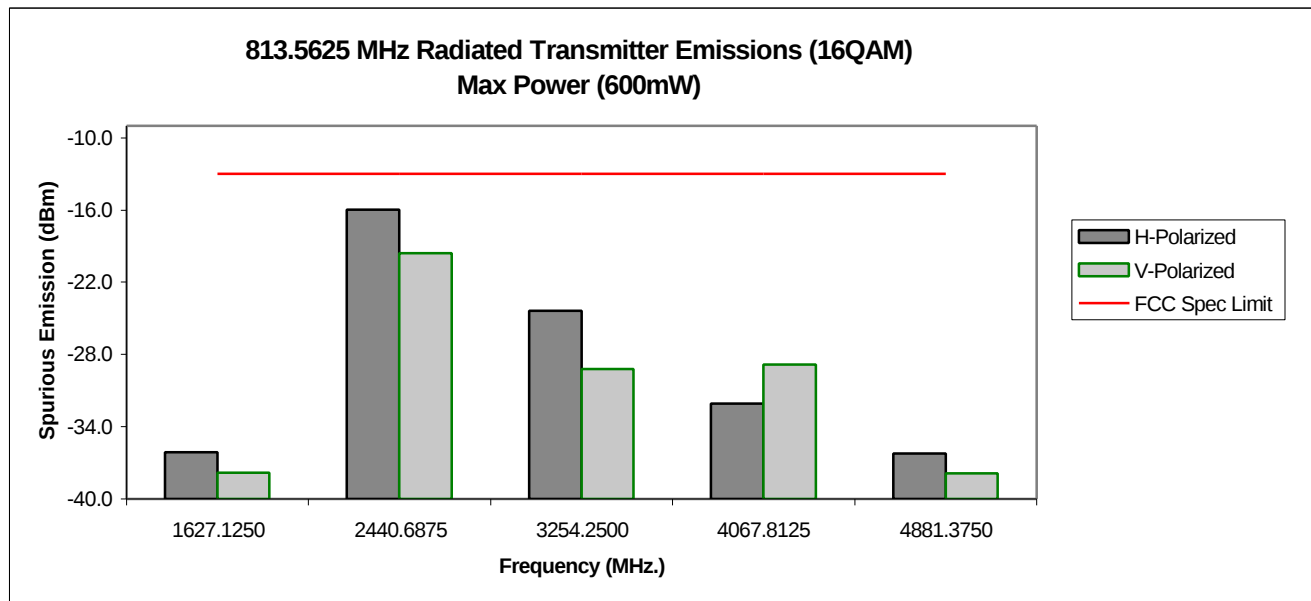
FCC Limits –

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

Spurious attenuation in dB = $43 + 10 \log_{10} (P)$ (P = Power output in watts, 0.6 watts in this case)

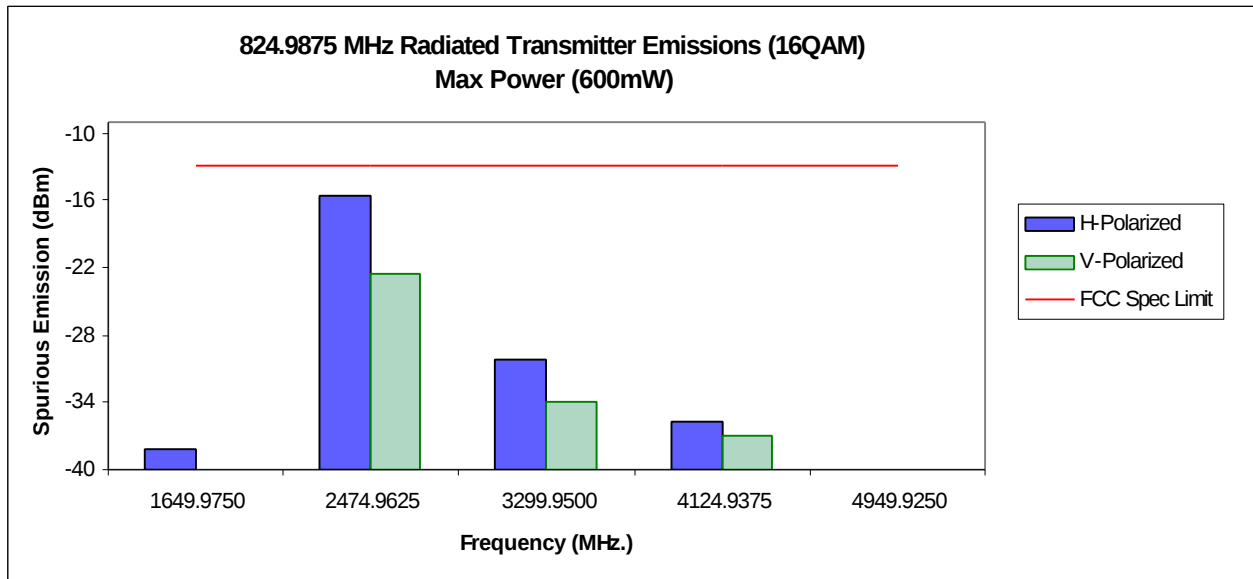
NOTE 1: The following data reflects worst-case measurements taken on the unit, side orientation in this case.

NOTE 2: Spurious emissions are independent of modulation type. M-16QAM was used to obtain the results reported.

**Table 6-1: 813.5625 MHz Radiated Transmitter Emissions at Max Power (600mW).**

Description	Frequency (MHz)	FCC Maximum Emission Limit (dBm)	Measured Emission Equivalent Power Into an Ideal Dipole (dBm)	
			Horizontal Polarization	Vertical Polarization
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	-36.1	-37.8
3X FUND	2440.6875	-13	-15.9	-19.6
4X FUND	3254.2500	-13	-24.4	-29.2
5X FUND	4067.8125	-13	-32.1	-28.8
6X FUND	4881.3750	-13	-36.2	-37.9
7X FUND	5694.9375	-13	*	
8X FUND	6508.5000	-13	*	
9X FUND	7322.0625	-13	*	
10XFUND	8135.6250	-13	*	

* **Note:** Measured noise floor (< -35.6dBm), limited by test setup and equipment.

**Table 6-2: 824.9875 MHz Radiated Transmitter Emissions at Max Power (600mW).**

Description	Frequency (MHz)	FCC Maximum Emission Limit (dBm)	Measured Emission Equivalent Power Into an Ideal Dipole (dBm)	
			Horizontal Polarization	Vertical Polarization
IF	150.9000	-13	< -40	
2X IF	301.8000	-13	< -40	
LO	975.8875	-13	< -40	
IF + LO	1126.7875	-13	< -40	
2X FUND	1649.9750	-13	-38.3	-42.4
3X FUND	2474.9625	-13	-15.6	-22.6
4X FUND	3299.9500	-13	-30.2	-33.9
5X FUND	4124.9375	-13	-35.8	-36.9
6X FUND	4949.9250	-13	*	
7X FUND	5774.9125	-13	*	
8X FUND	6599.9000	-13	*	
9X FUND	7424.8875	-13	*	
10XFUND	8249.8750	-13	*	

* **Note:** Measured noise floor (-30.5dBm), limited by test setup and equipment.

