

## Exhibit 6a. Part 90 Measured Data -- Pursuant 47 CFR. 2.1041

### 6a.1 Land Mobile Transmitter Power

The transmitter is a variable power type used in a SMR trunking system. Output power (as defined in 47 CFR 90.7) is dynamically controlled as described in Exhibit 12.

#### 6a.1.1 Maximum Output Power Rating -- Pursuant 47 CFR 2.1033(c)(7) and 90.635(d)

Maximum output power rating: 1100 milliwatts (30.41 dBm), pulse average power. Output power will vary from 0.4 to 1100 milliwatts (pulse average power).

*Note 1: Nominal output power rating: 1000 milliwatts (30.0 dBm) (Pulse average power).*

*Note 2: These ratings are compliant with the FCC maximum of 100 watts (50 dBm) for Mobile stations*

*Note 3: The term pulse average power is used to specify the power that would be measured during the intervals of recurrent TDM transmission pulses by an average responding RF power meter. Power expressed in this manner is independent of the TDM duty cycle, and facilitates RF system coverage analysis.*

#### 6a.1.2 Operating output power range -- Pursuant 47 CFR 2.1033(c)(6)

Maximum tuned output power will vary over a range of 900 to 1100 milliwatts (maximum pulse average power) to a minimum power of 34 dB below maximum tuned output power.

Measured results:

Band	Frequency	Tx measured Power
800	806.01250	30.41 dBm
800	813.51250	30.428dBm
800	824.98750	30.447dBm
900	896.01875	30.456dBm
900	898.49375	30.376dBm

**Table 6-1 Measured Power Output for 800 and 900 MHz SMR bands**

**6a.1.3 DC power used by final amplifier device -- Pursuant 47 CFR 2.1033(c)(8)**

The DC current and the RF output power was measured with a special RF/DC test fixture set to supply the radio with the nominal battery voltage of 8V. The characteristics were measured during a transmission pulse and are listed in the Table below.

The DC current in the table below is only that used by the final amplifier device.

Characteristics	800 MHz		900 MHz	
	maximum	minimum	maximum	minimum
<b>DC Voltage (Volts)</b>	8.0	8.0	8.0	8.0
<b>DC Current (mA)</b>	873	338	653	263
<b>Output Power (mW)</b>	1100	0.4	1100	0.4

**Table 6-2 Final Amplifier DC Characteristics for 800 and 900 MHz SMR bands**

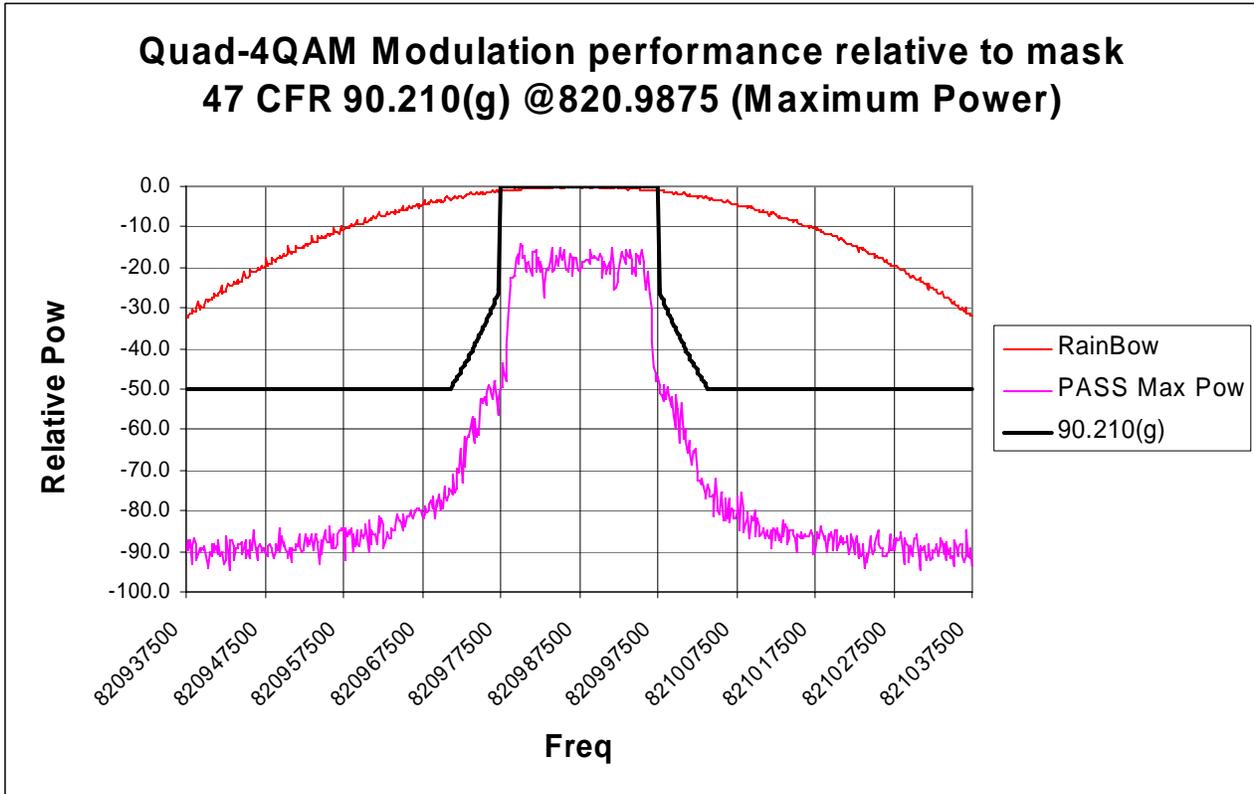
**6a.1.4 Measuring Equipment**

1.Power Meter:	Boonton	4532	Date cal: 26-Dec-07	Due cal: 26-Dec-08
2.Power Supply:	Agilent	E3634A	Date cal: 26-Dec-07	Due cal: 26-Dec-08

**6a.2. Modulation Characteristics and Necessary Bandwidth -- Pursuant 47 CFR 2.1033(c)(13), 2.1047(d), 2.1049, 2.202, 90.210(g), and 90.669(a).**

All performance results passed the respective masks, as shown below.

**6a.2.1 Emission Designator 18K3D7W - iDEN 800 MHz Band Measured data**



**Figure 6a-2.1.1. iDEN 800 MHz Band, QPSK, Maximum Power, Emission Mask G**

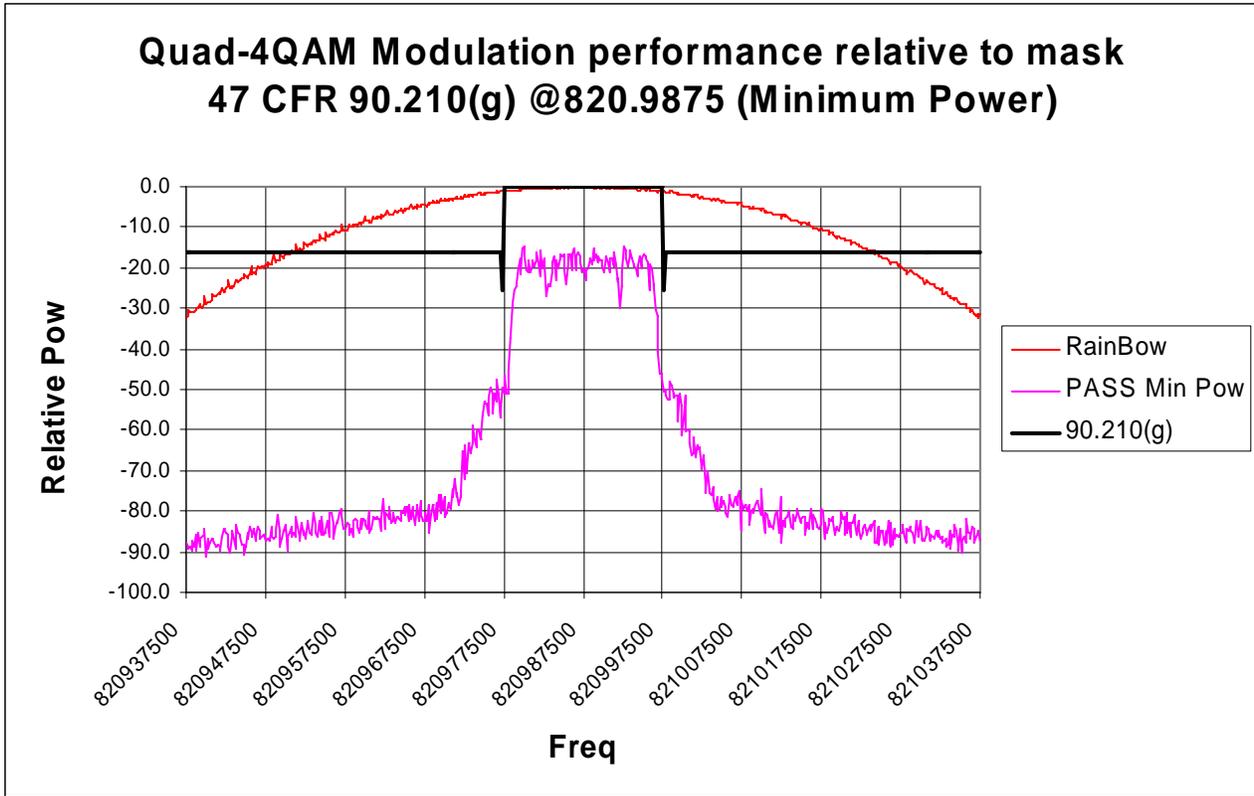


Figure 6a-2.1.2. iDEN 800 MHz Band, QPSK, Minimum Power, Emission Mask G

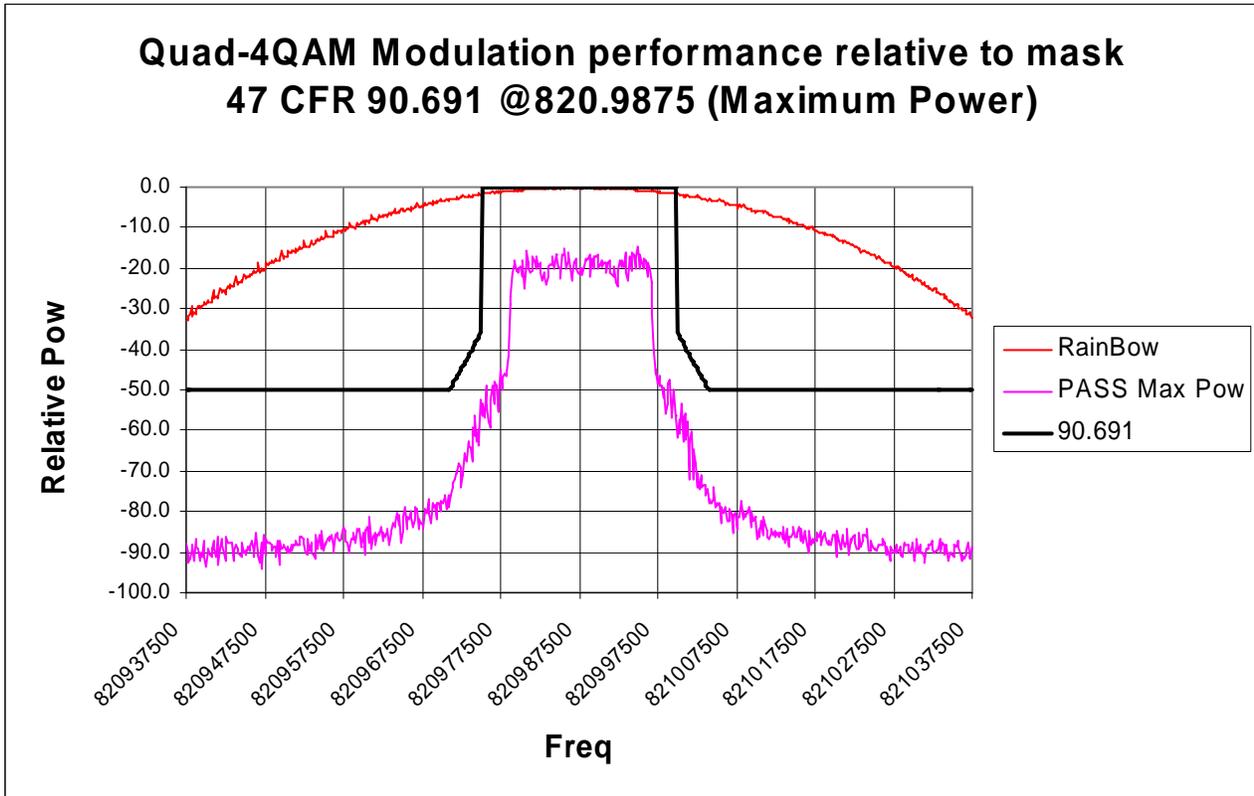


Figure 6a-2.1.3. iDEN 800 MHz Band, Quad-QPSK, Maximum Power, EA Emission Mask

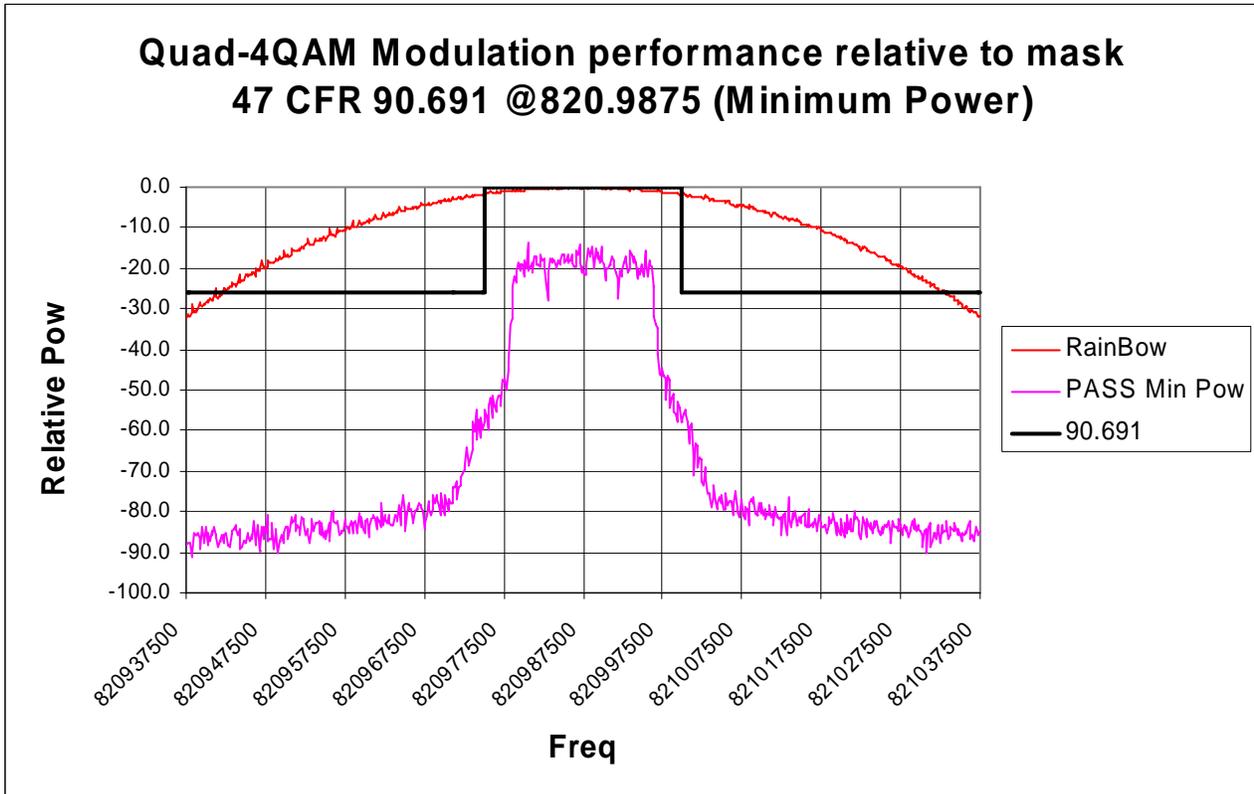


Figure 6a-2.1.4. iDEN 800 MHz Band, QPSK, Minimum Power, EA Emission Mask

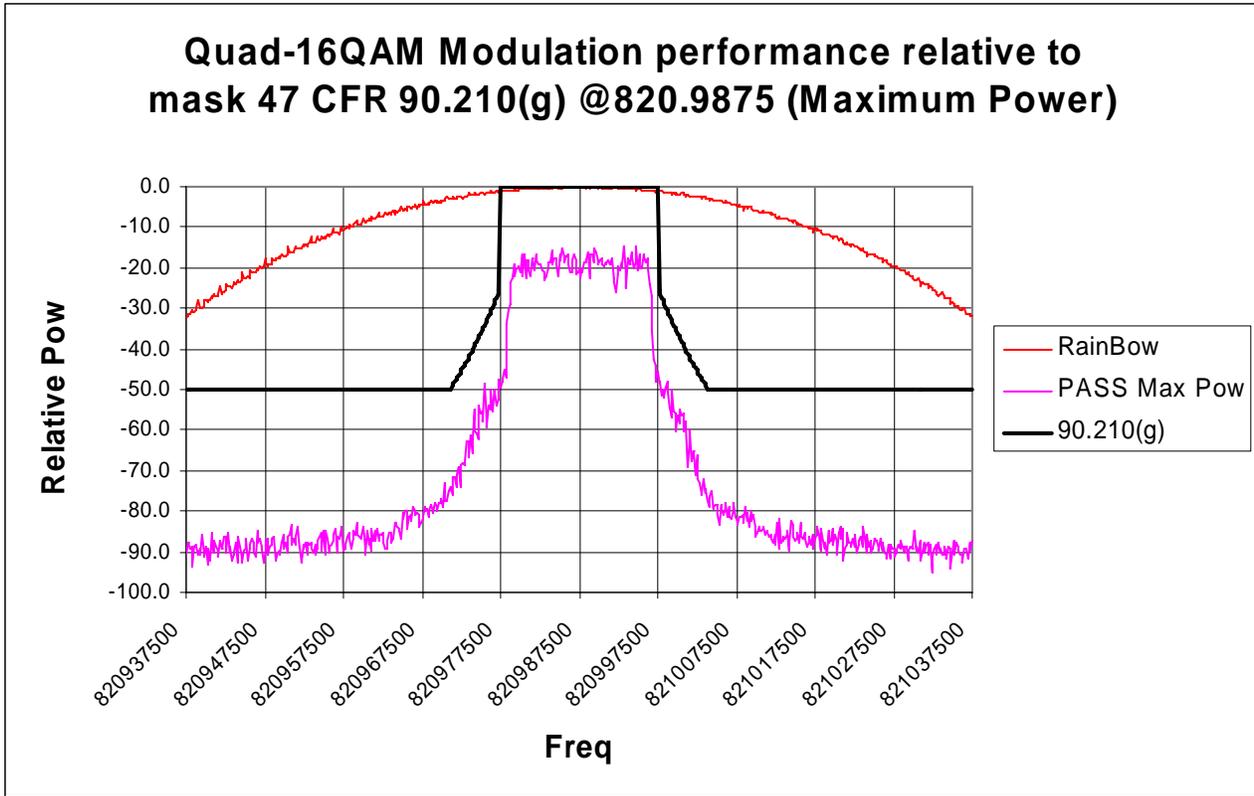


Figure 6a-2.1.5. iDEN 800 MHz Band, QAM16, Maximum Power, Emission Mask G

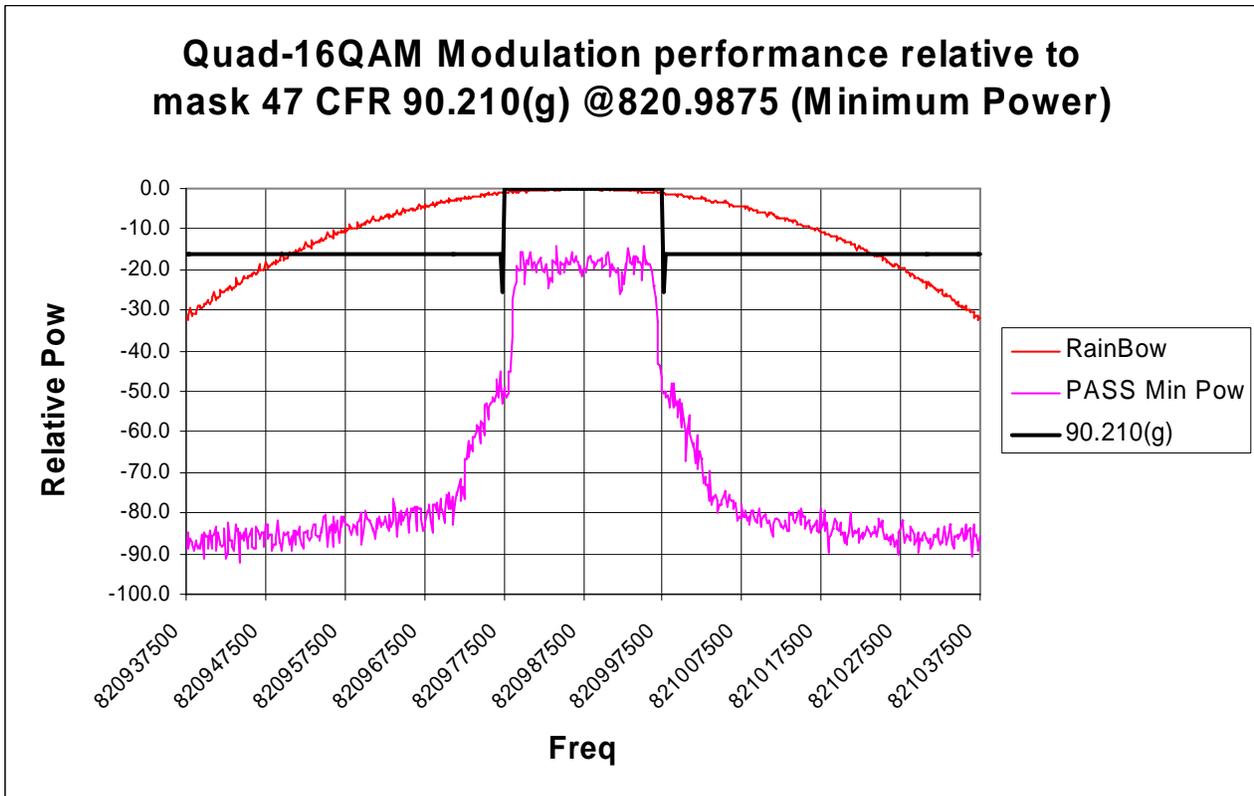


Figure 6a-2.1.6. iDEN 800 MHz Band, QAM16, Minimum Power, Emission Mask G

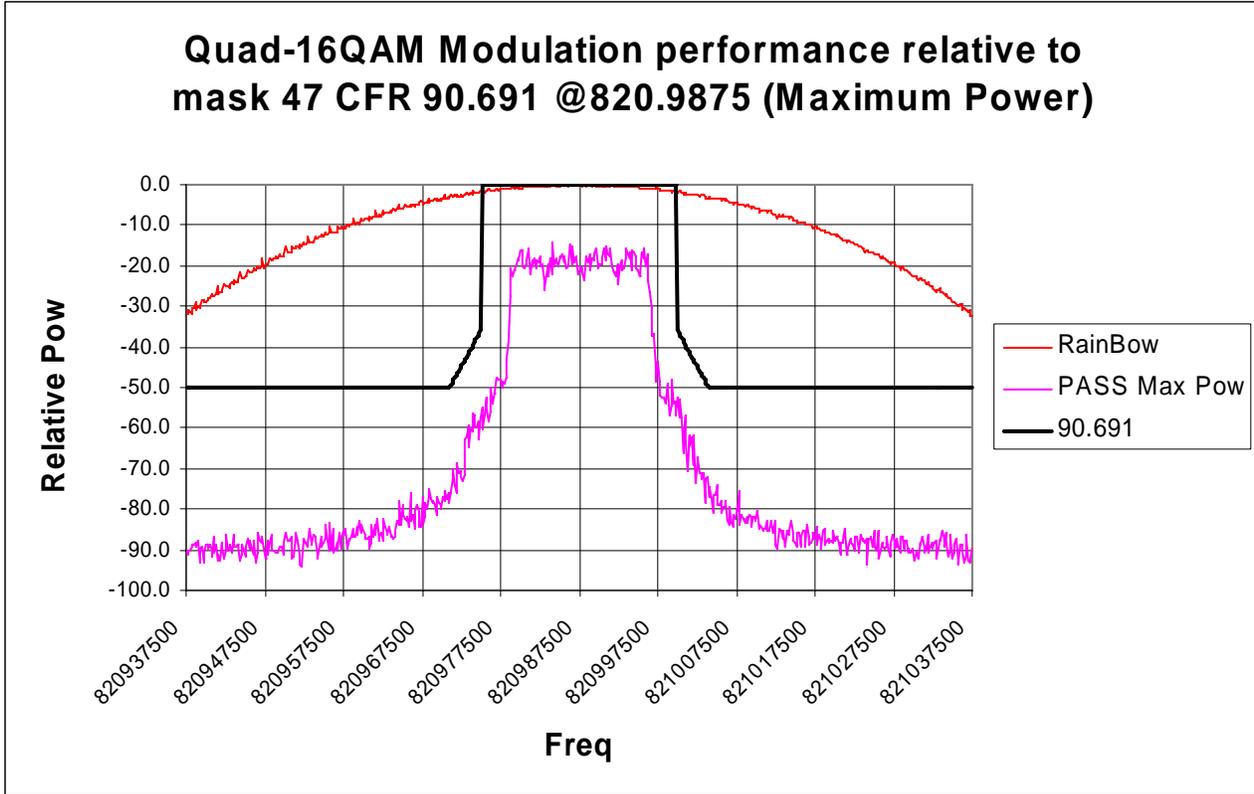


Figure 6a-2.1.7. iDEN 800 MHz Band, QAM16, Maximum Power, EA Emission Mask

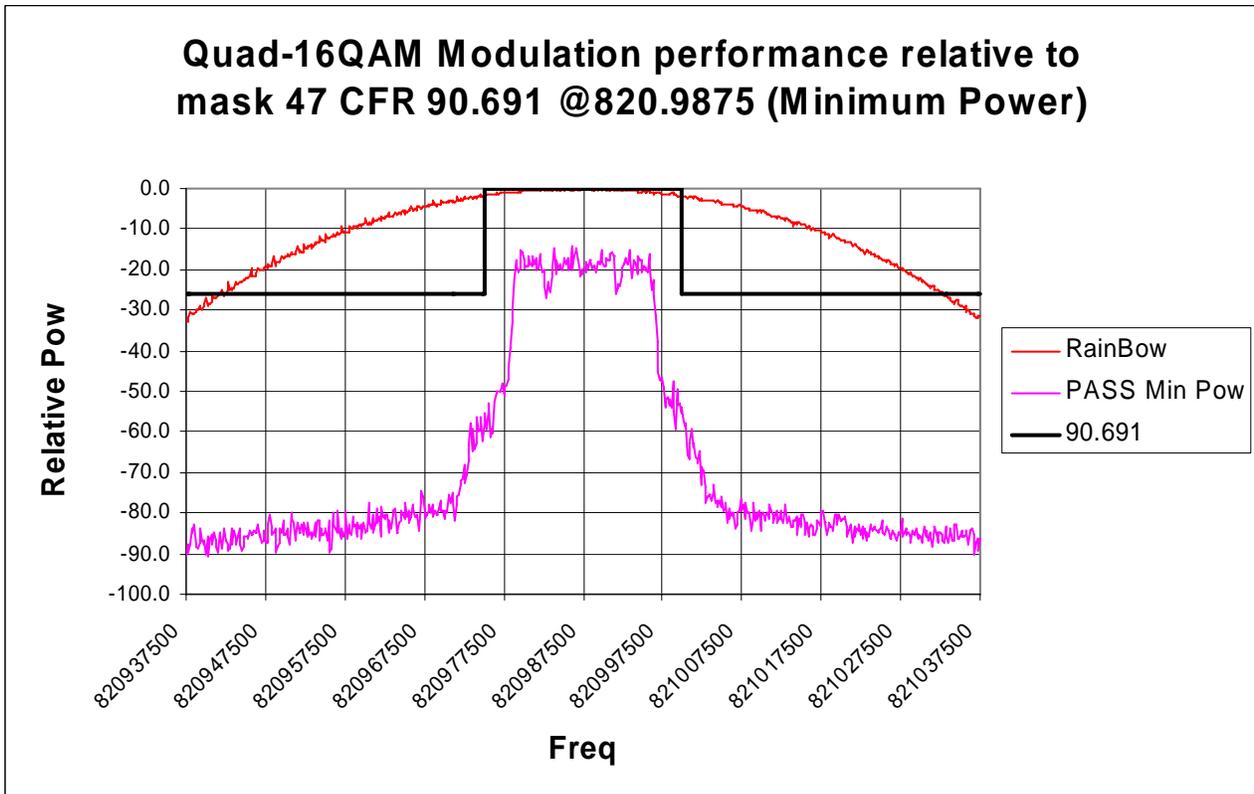


Figure 6a-2.1.8. iDEN 800 MHz Band, QAM16, Minimum Power, EA Emission Mask

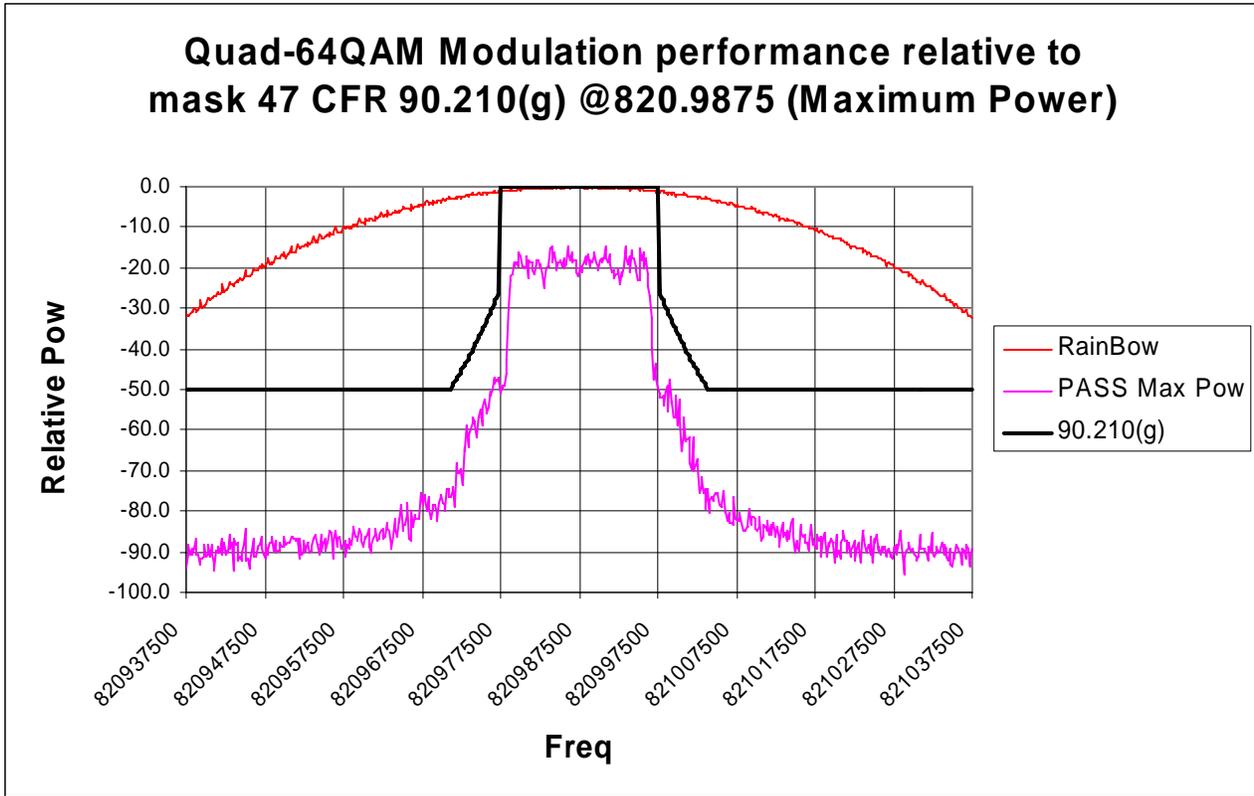


Figure 6a-2.1.9. iDEN 800 MHz Band, QAM64, Maximum Power, Emission Mask G

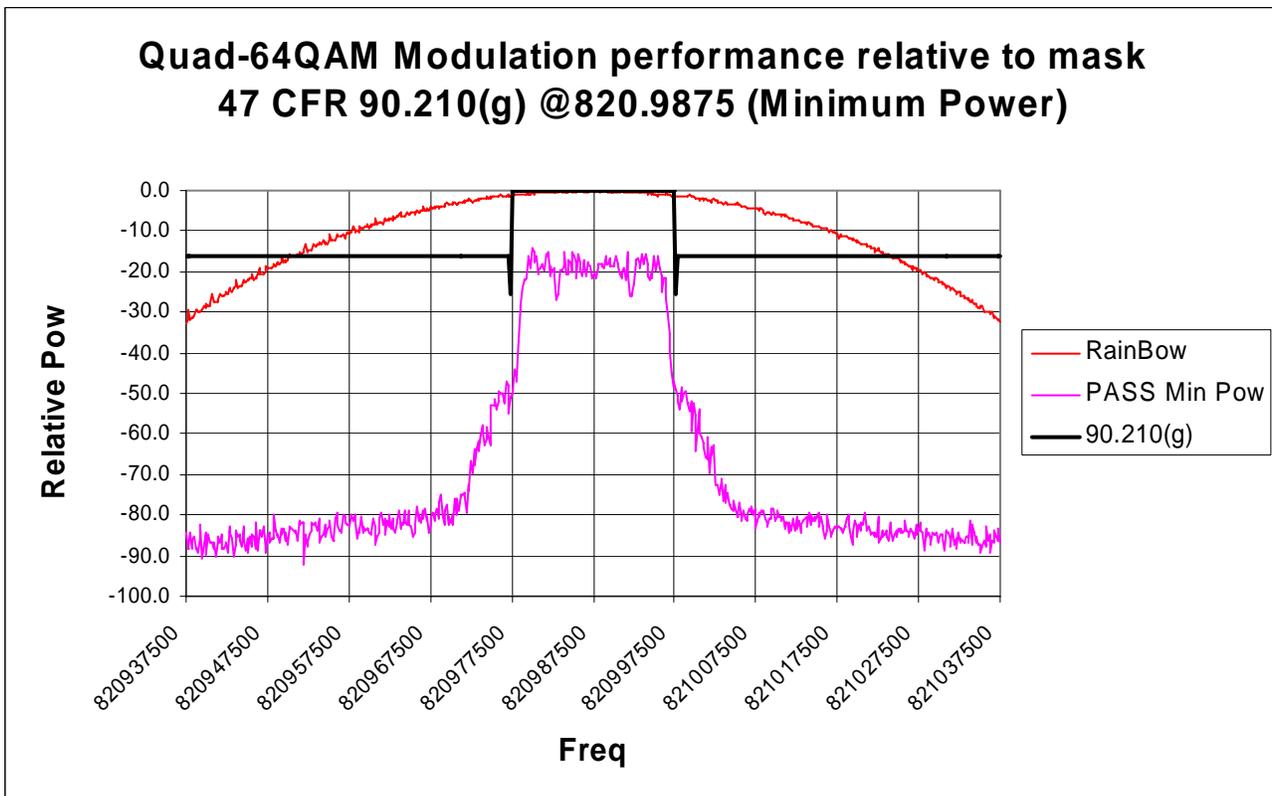


Figure 6a-2.1.10. iDEN 800 MHz Band, QAM64, Minimum Power, Emission Mask G

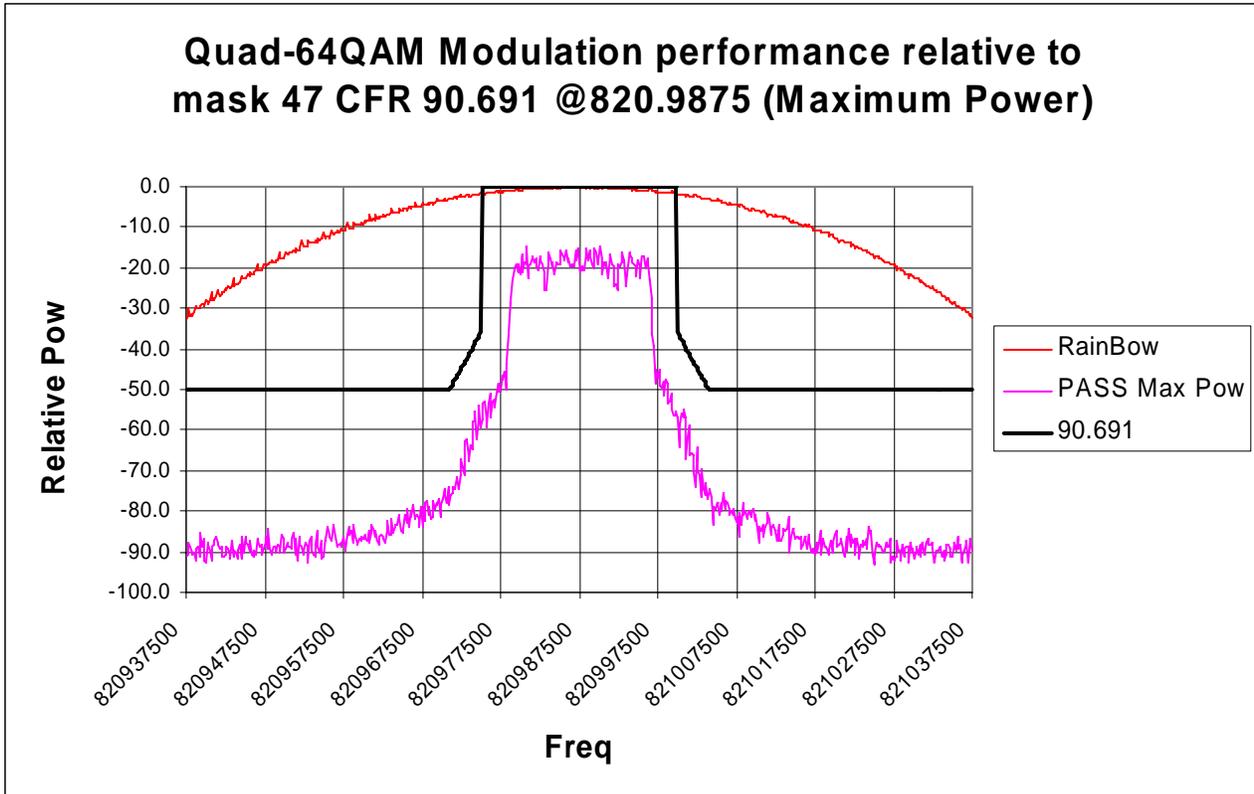


Figure 6a-2.1.11. iDEN 800 MHz Band, QAM64, Maximum Power, EA Emission Mask

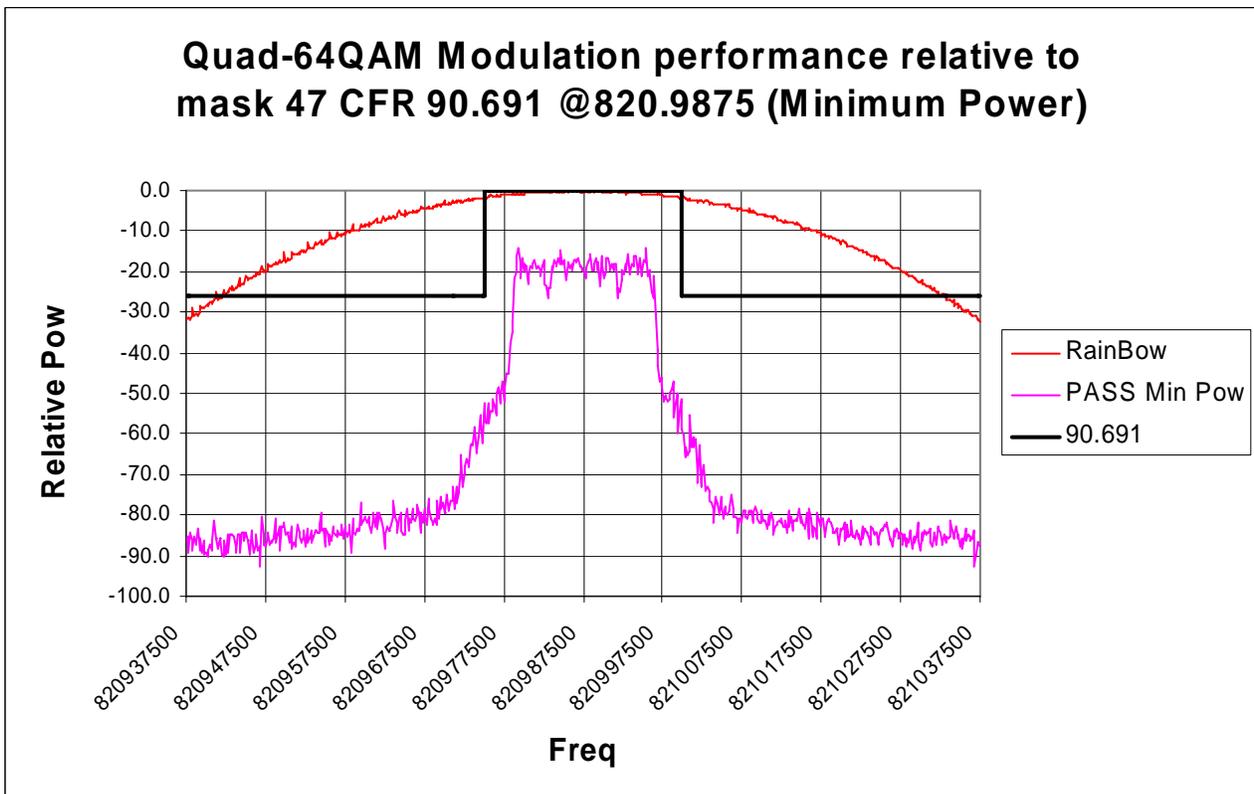


Figure 6a-2.1.12. iDEN 800 MHz Band, QAM64, Minimum Power, EA Emission Mask

### 6a.2.2. Emission Designator 18K3D7W - iDEN 900 MHz Band Measured Data

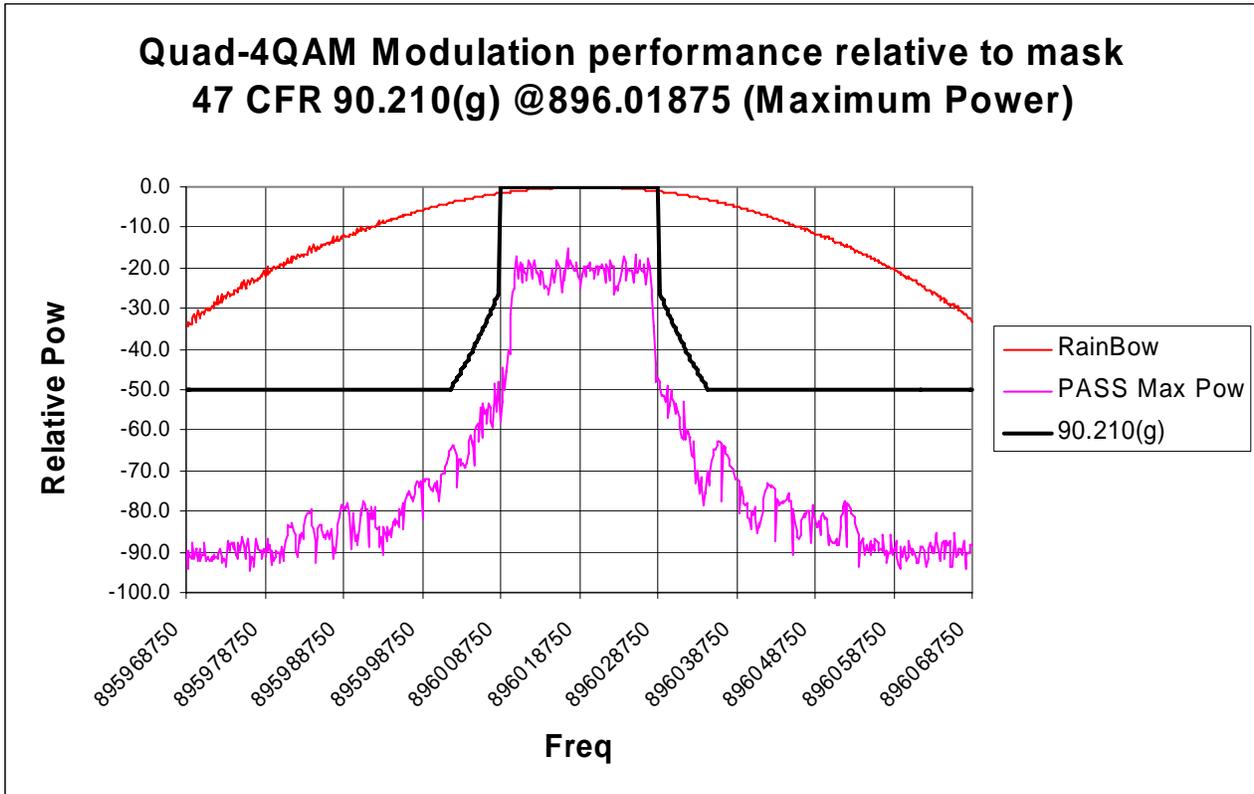


Figure 6a-2.2.1. iDEN 900 MHz Band, Quad-QPSK, Maximum Power, Emission Mask G

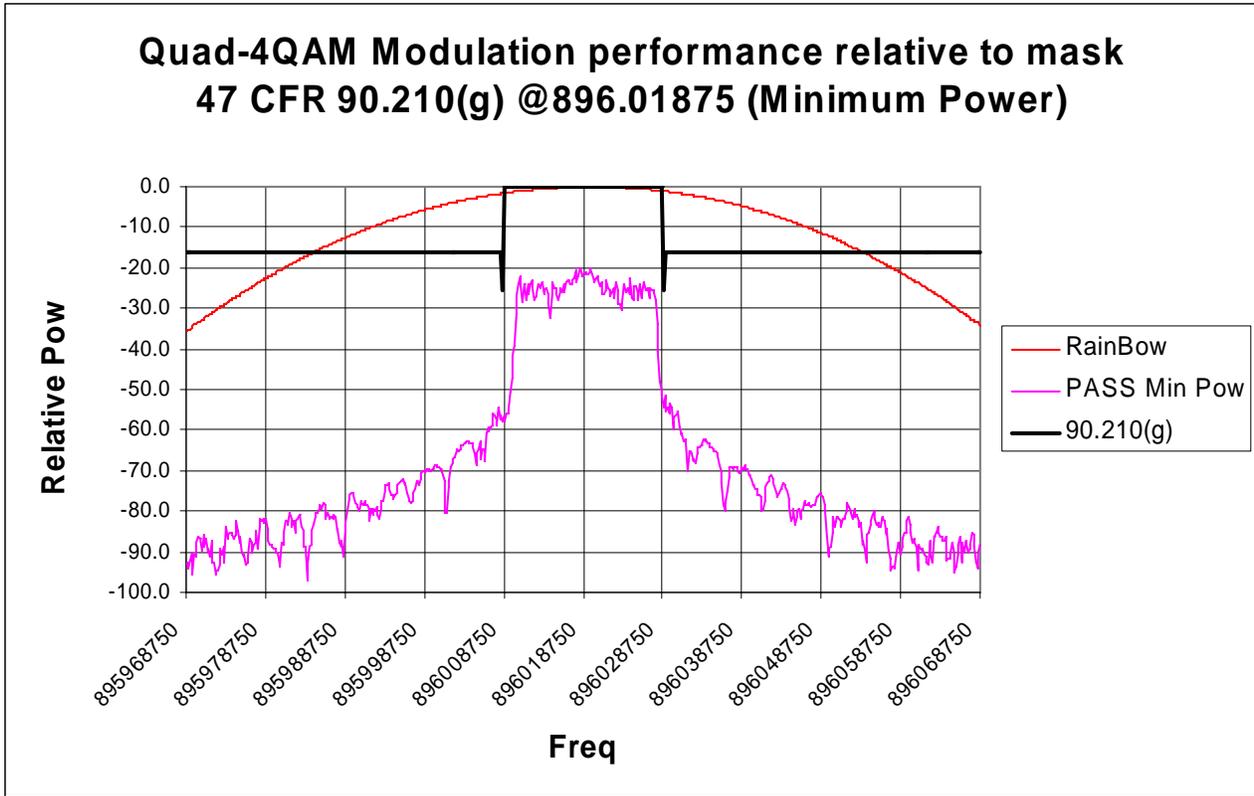


Figure 6a-2.2.2. iDEN 900 MHz Band, Quad-QPSK, Minimum Power, Emission Mask G

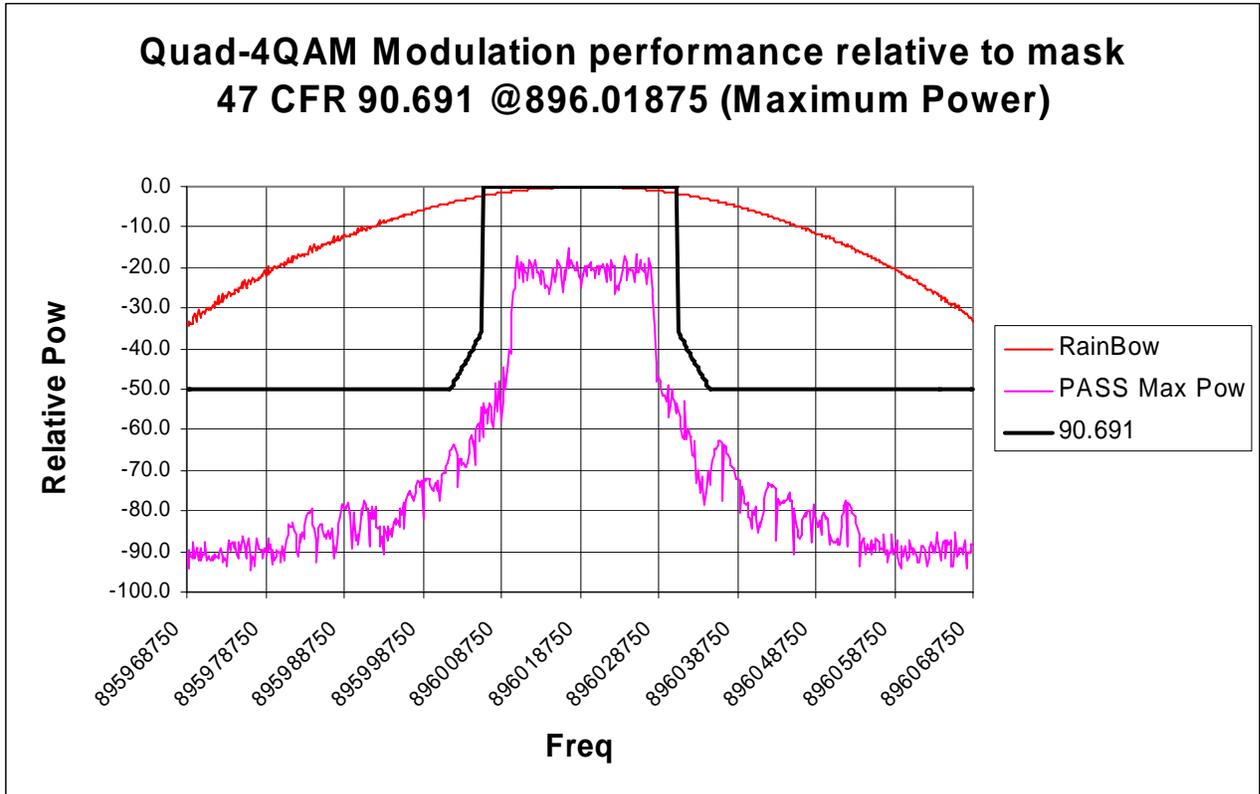


Figure 6a-2.2.3. iDEN 900 MHz Band, Quad-QPSK, Maximum Power, EA Emission Mask

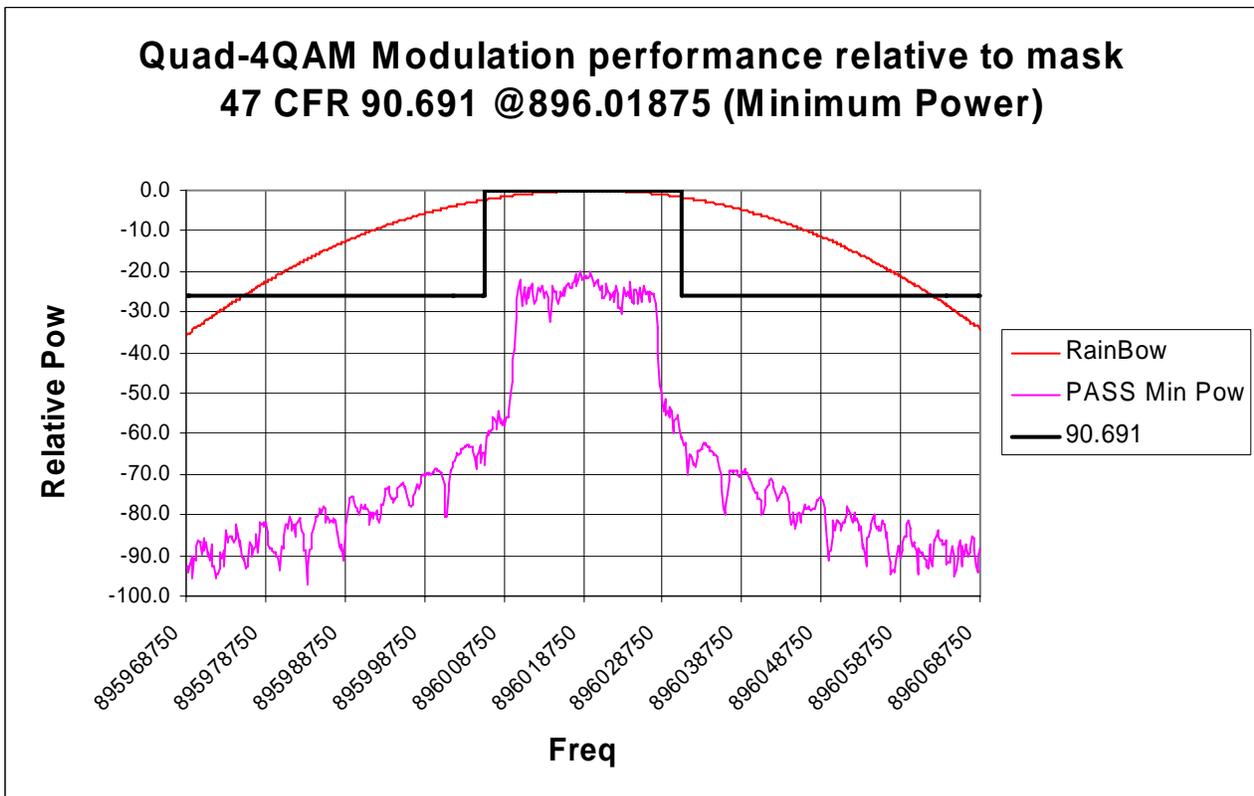


Figure 6a-2.2.4. iDEN 900 MHz Band, Quad-QPSK, Minimum Power, EA Emission Mask

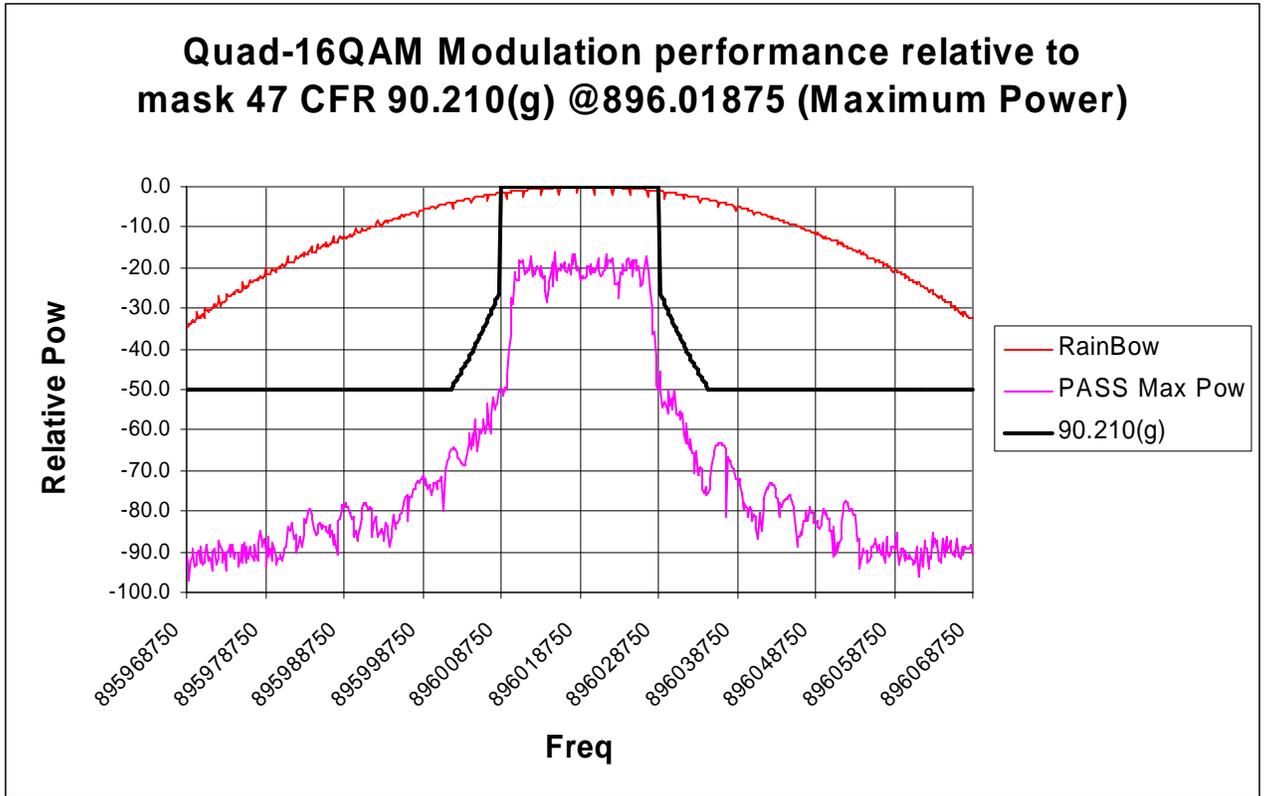


Figure 6a-2.2.5. iDEN 900 MHz Band, QAM16, Maximum Power, Emission Mask G

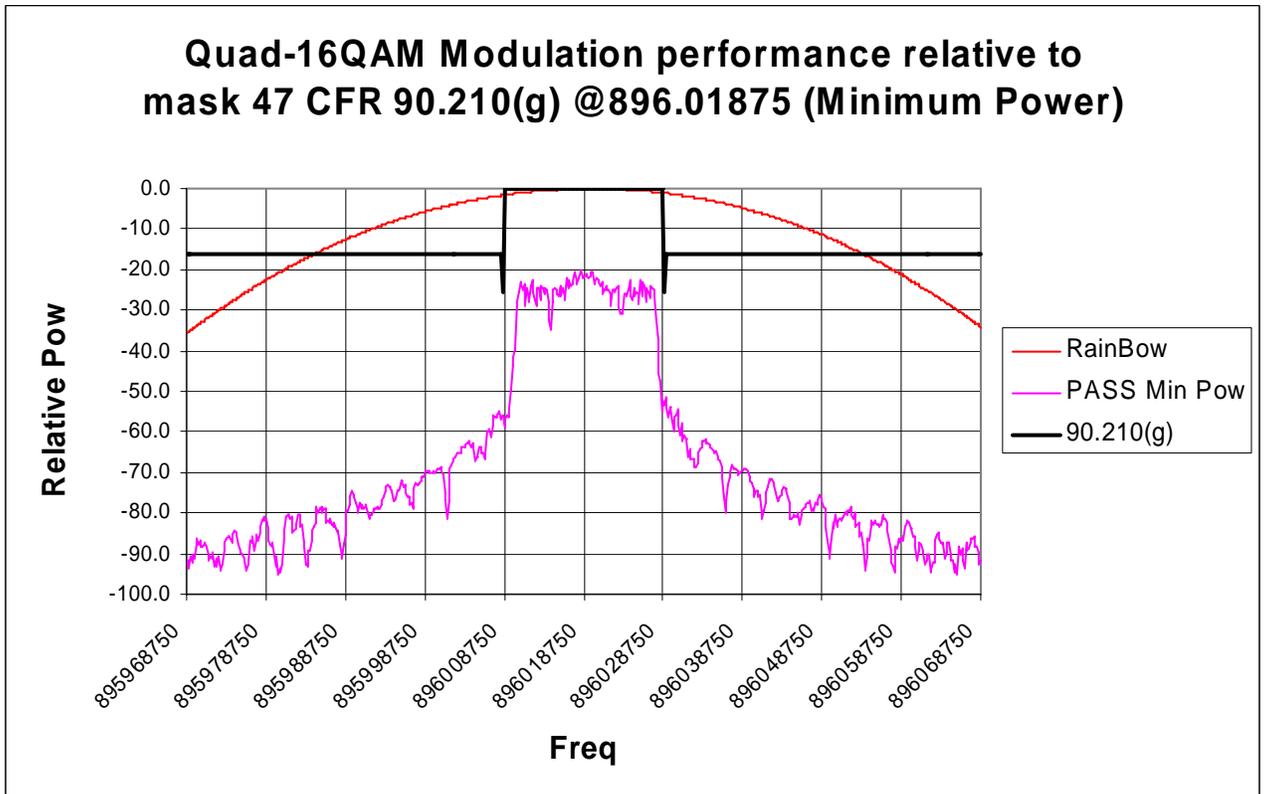


Figure 6a-2.2.6. iDEN 900 MHz Band, QAM16, Minimum Power, Emission Mask G

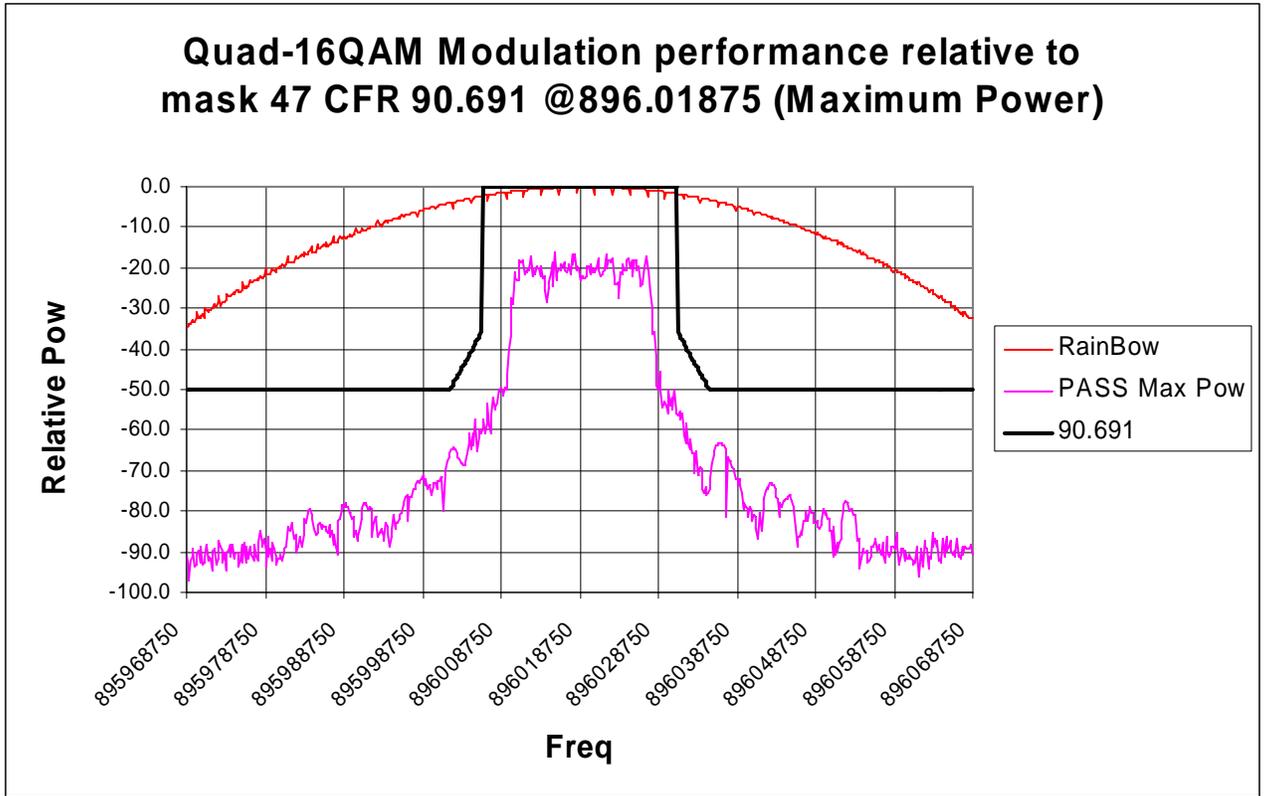


Figure 6a-2.2.7. iDEN 900 MHz Band, QAM16, Maximum Power, EA Emission Mask

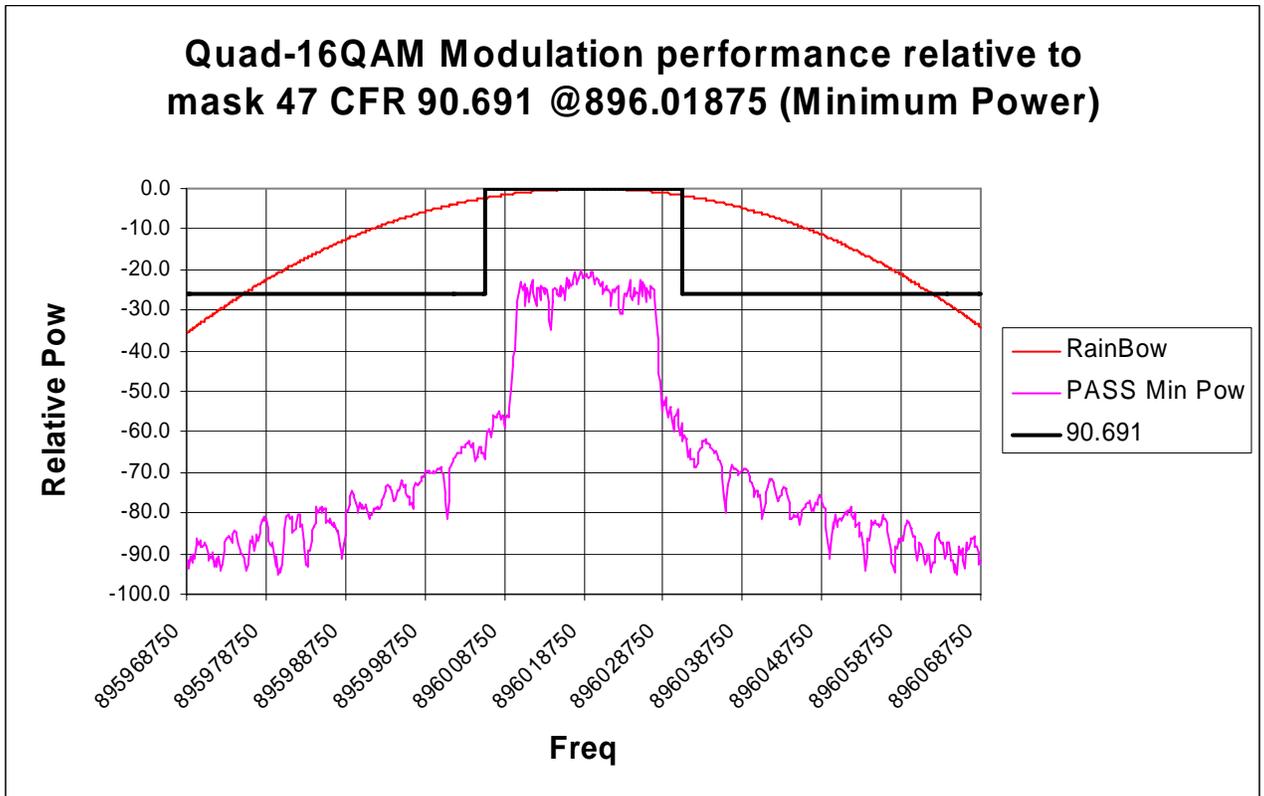


Figure 6a-2.2.8. iDEN 900 MHz Band, QAM16, Minimum Power, EA Emission Mask

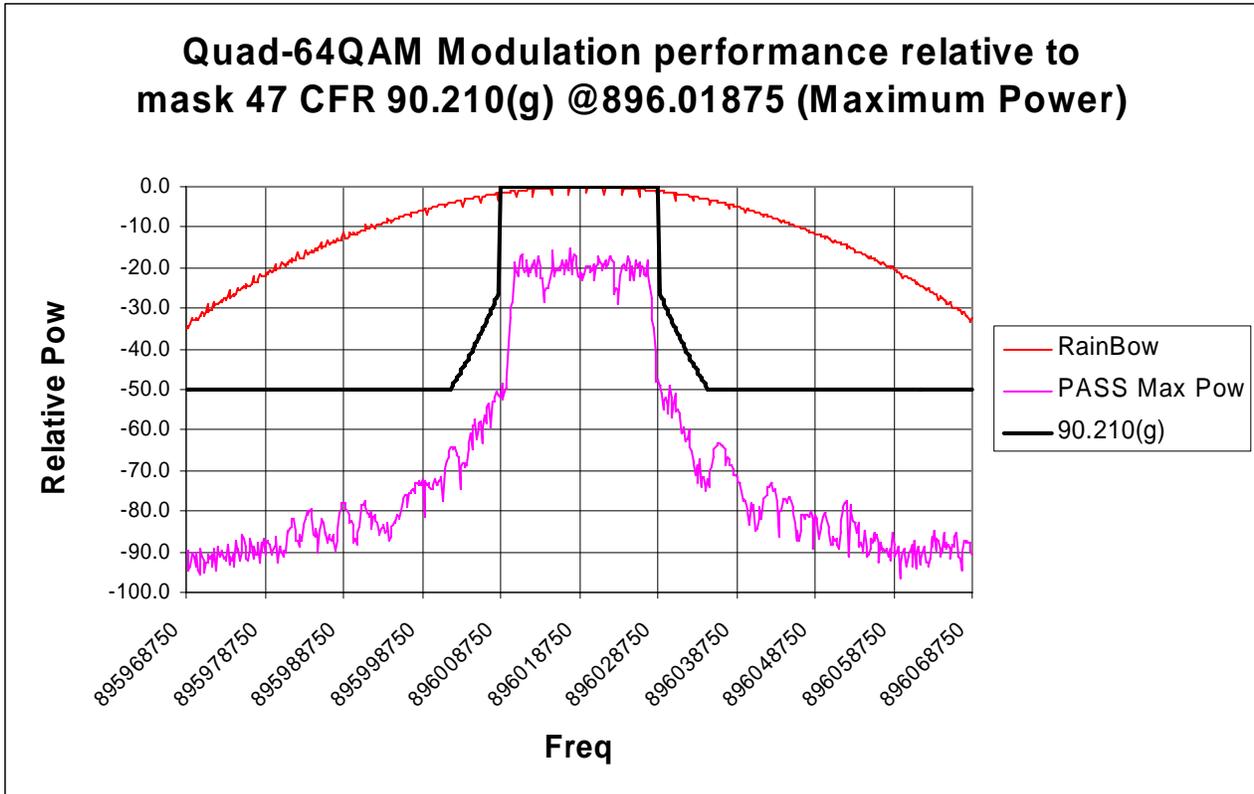


Figure 6a-2.2.9. iDEN 900 MHz Band, QAM64, Maximum Power, Emission Mask G

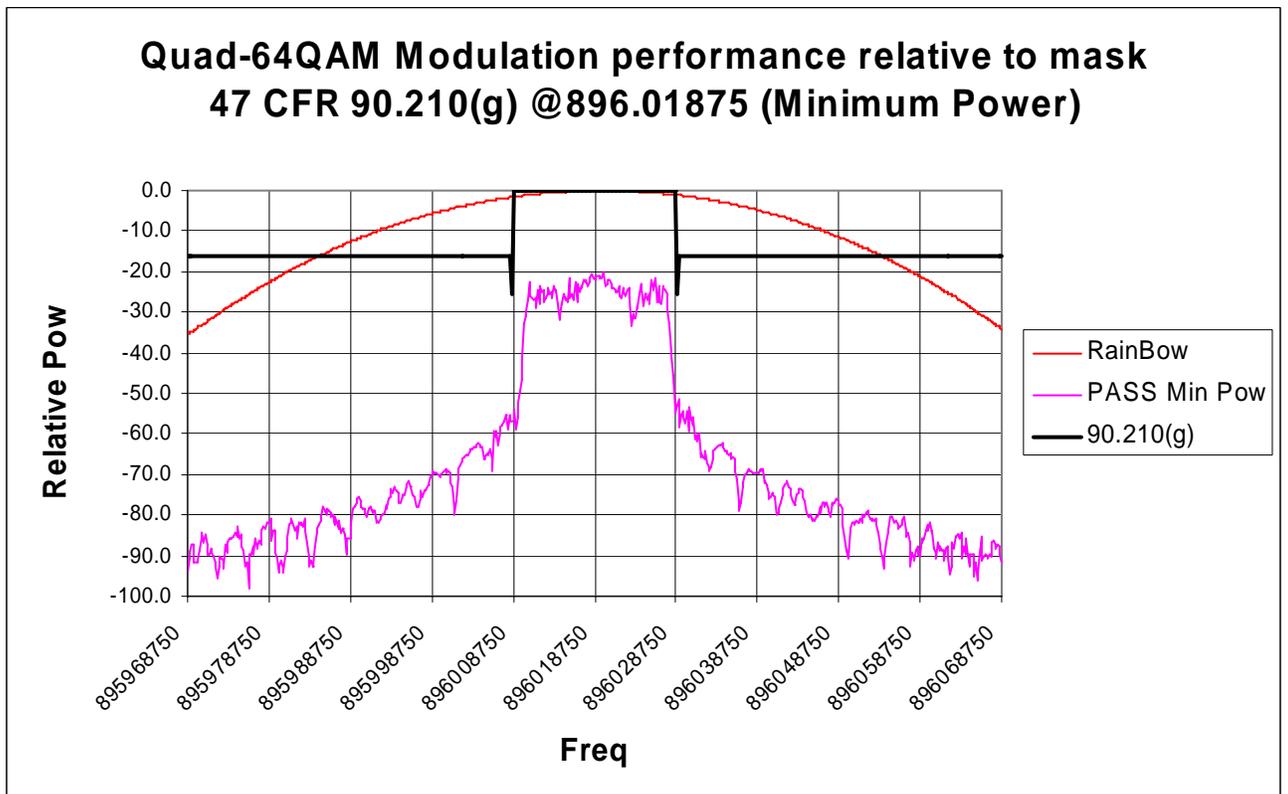


Figure 6a-2.2.10. iDEN 900 MHz Band, QAM64, Minimum Power, Emission Mask G

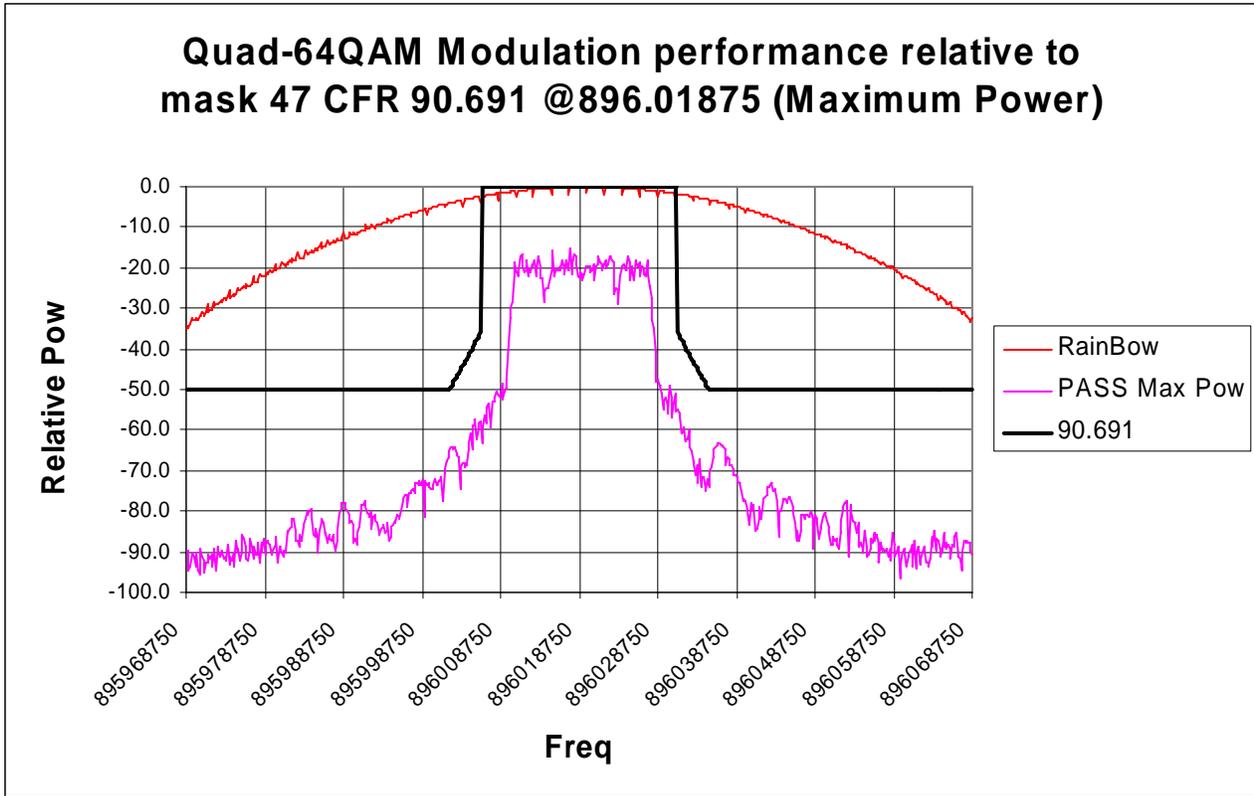


Figure 6a-2.2.11. iDEN 900 MHz Band, QAM64, Maximum Power, EA Emission Mask

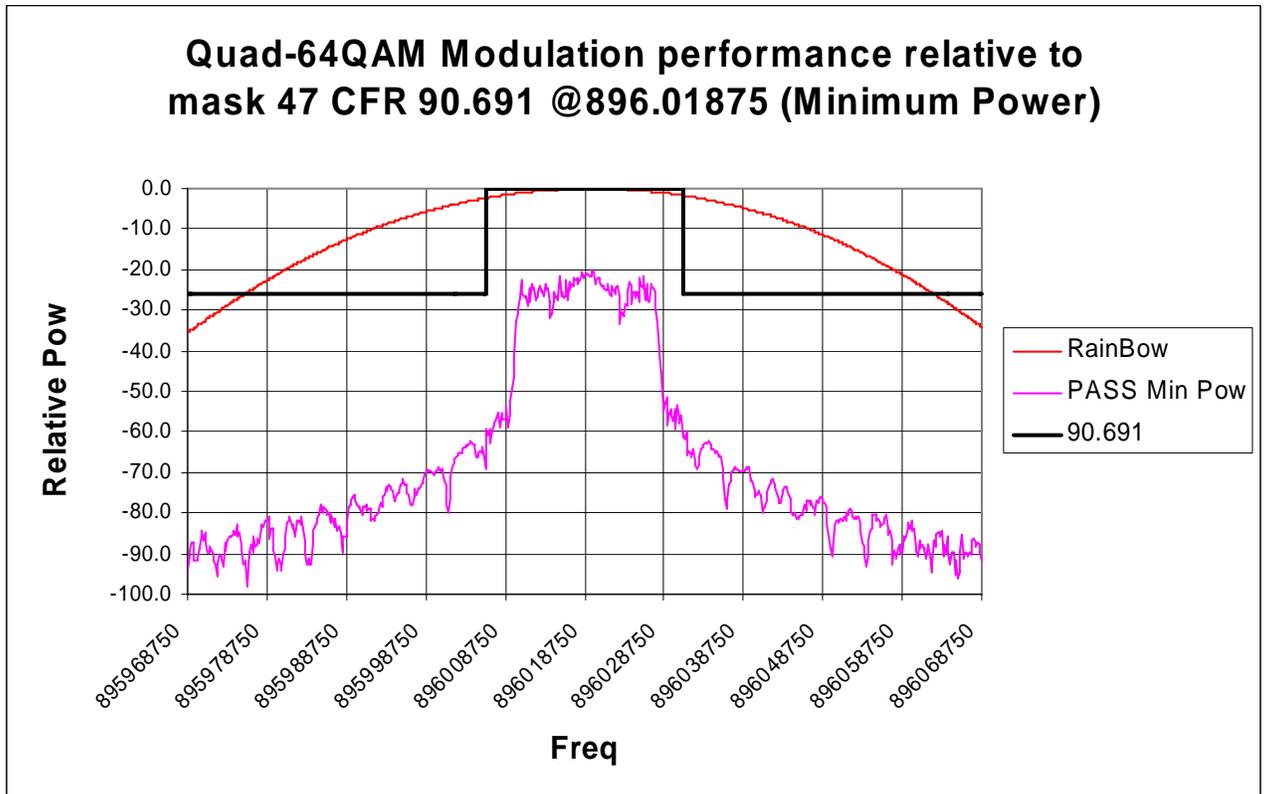


Figure 6a-2.2.12. iDEN 900 MHz Band, QAM64, Minimum Power, EA Emission Mask

### 6a.2.3 Emission Designator 18K3D7W - WiDEN25 800 MHz Band

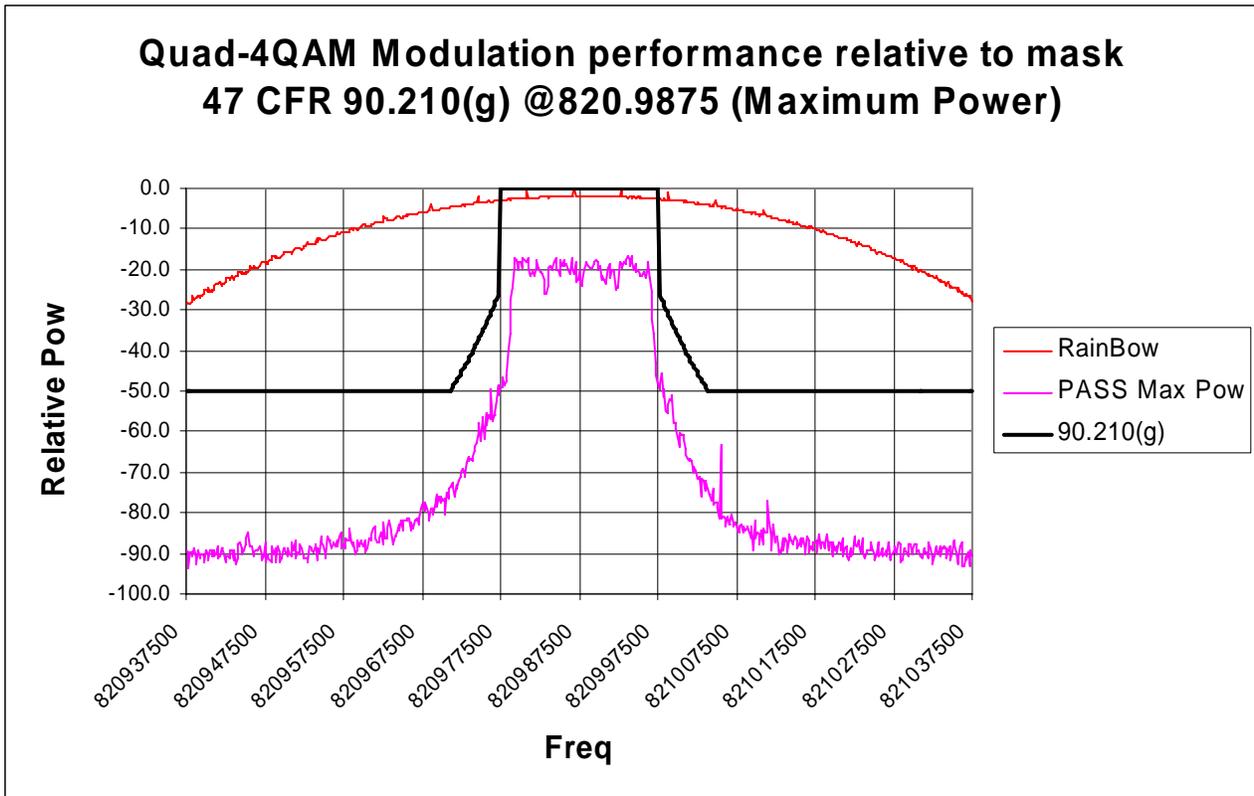


Figure 6a-2.3.1. WiDEN25 800 MHz Band, Quad-QPSK, Maximum Power, Emission Mask G

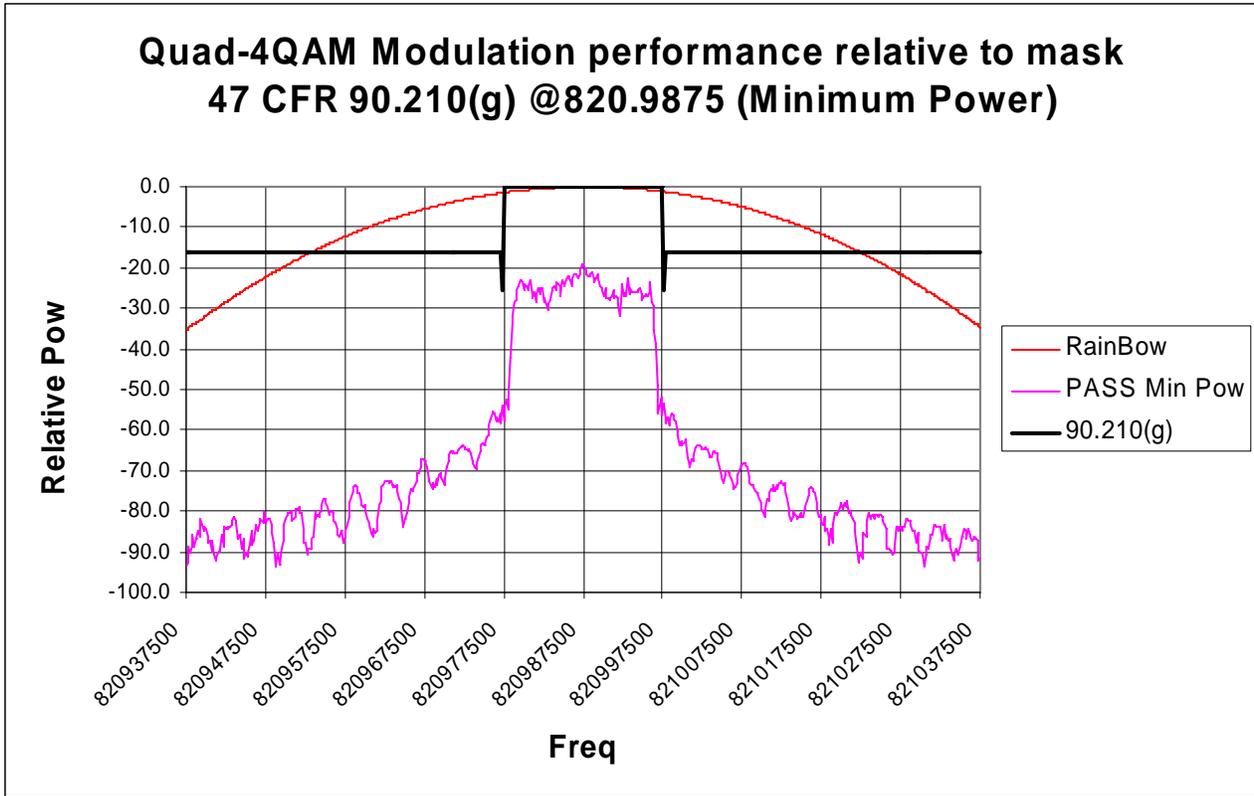


Figure 6a-2.3.2. WiDEN25 800 MHz Band, Quad-QPSK, Minimum Power, Emission Mask G

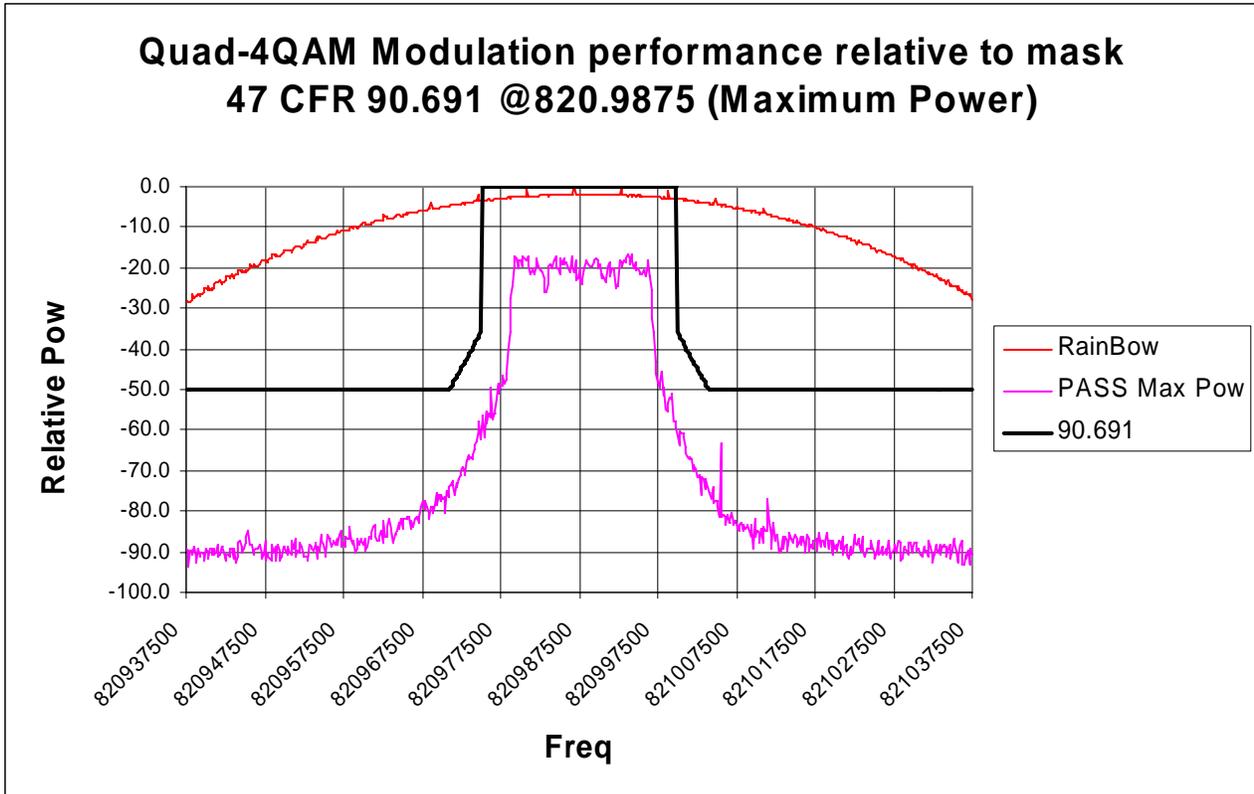


Figure 6a-2.3.3. WiDEN25 800 MHz Band, Quad-QPSK, Maximum Power, EA Emission Mask

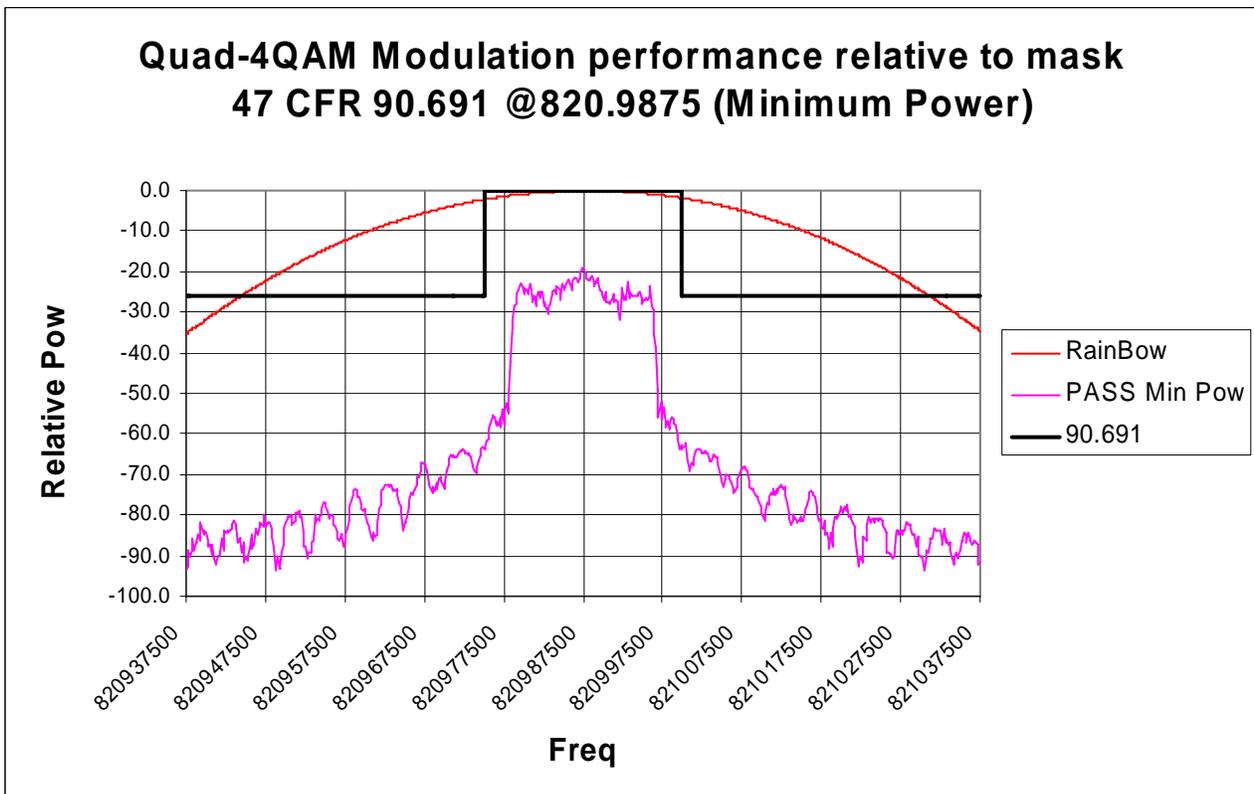


Figure 6a-2.3.4. WiDEN25 800 MHz Band, Quad-QPSK, Minimum Power, EA Emission Mask

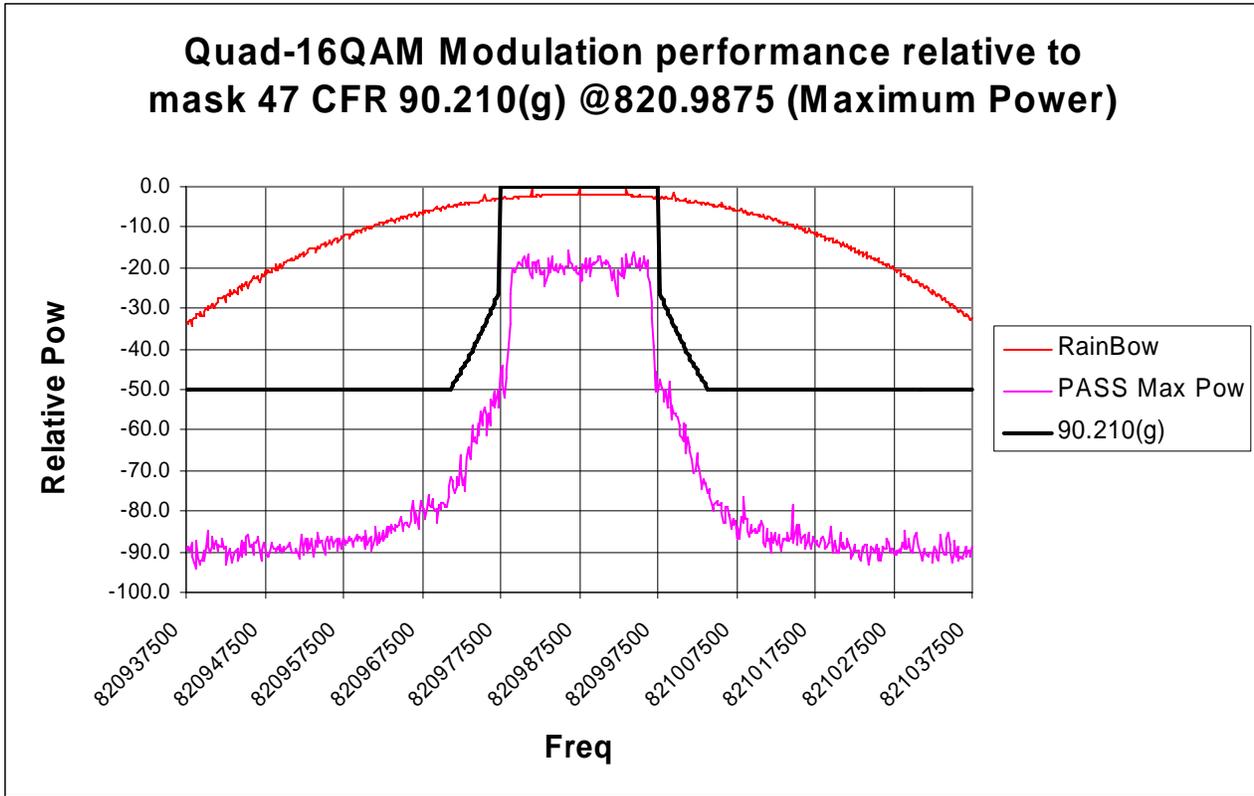


Figure 6a-2.3.5. WiDEN25 800 MHz Band, QAM16, Maximum Power, Emission Mask G

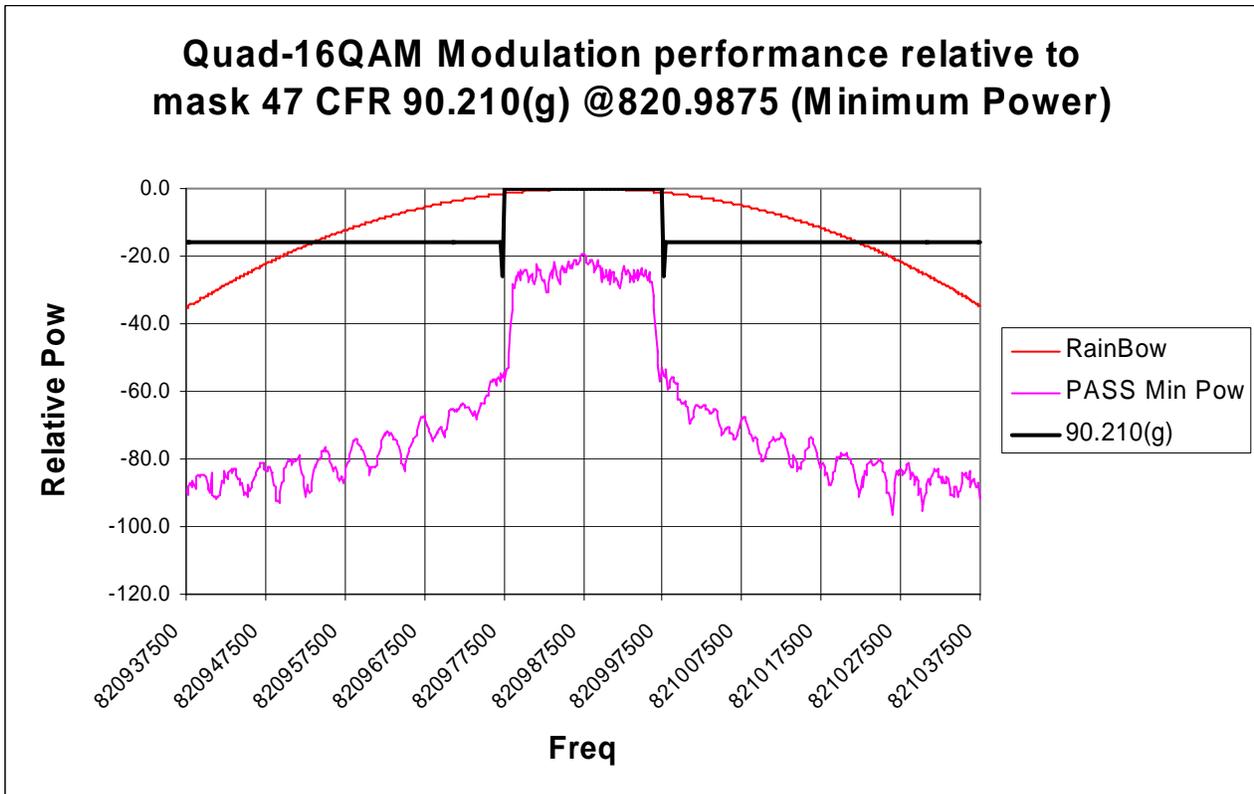


Figure 6a-2.3.6. WiDEN25 800 MHz Band, QAM16, Minimum Power, Emission Mask G

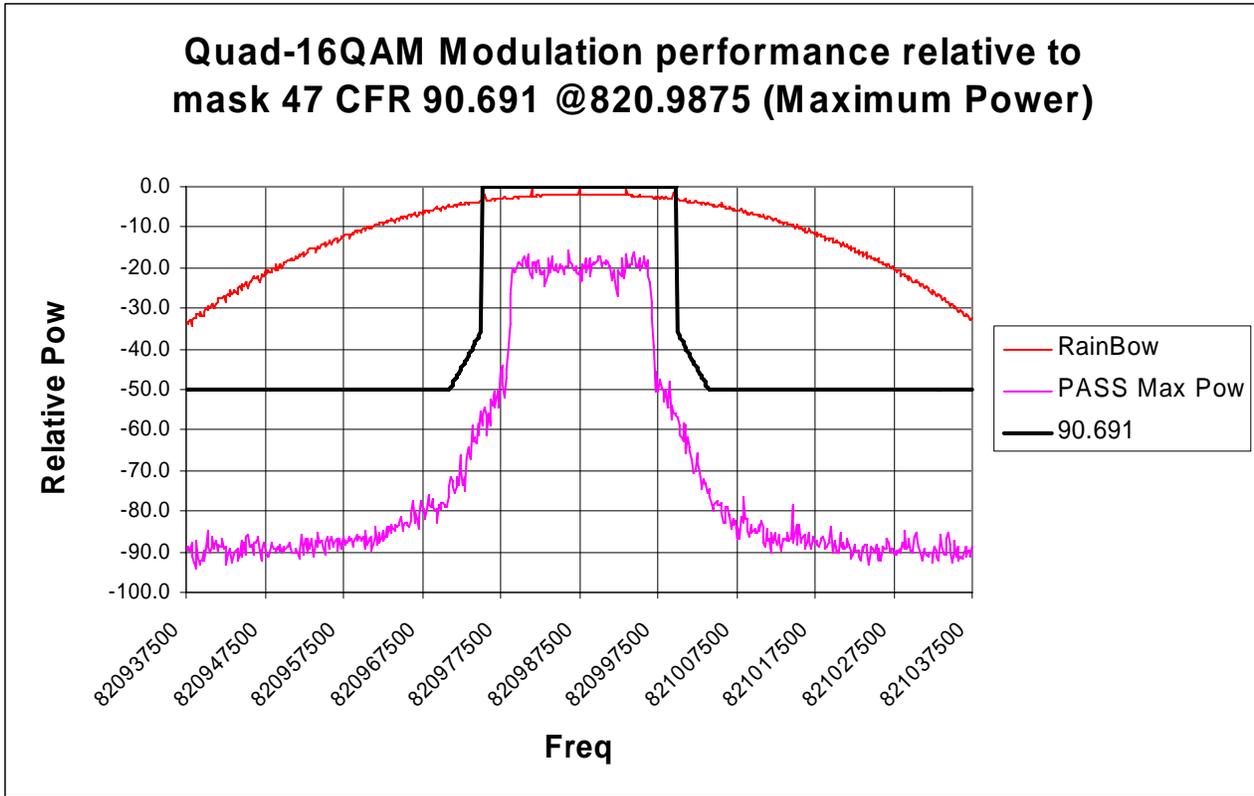


Figure 6a-2.3.7. WiDEN25 800 MHz Band, QAM16, Maximum Power, EA Emission Mask

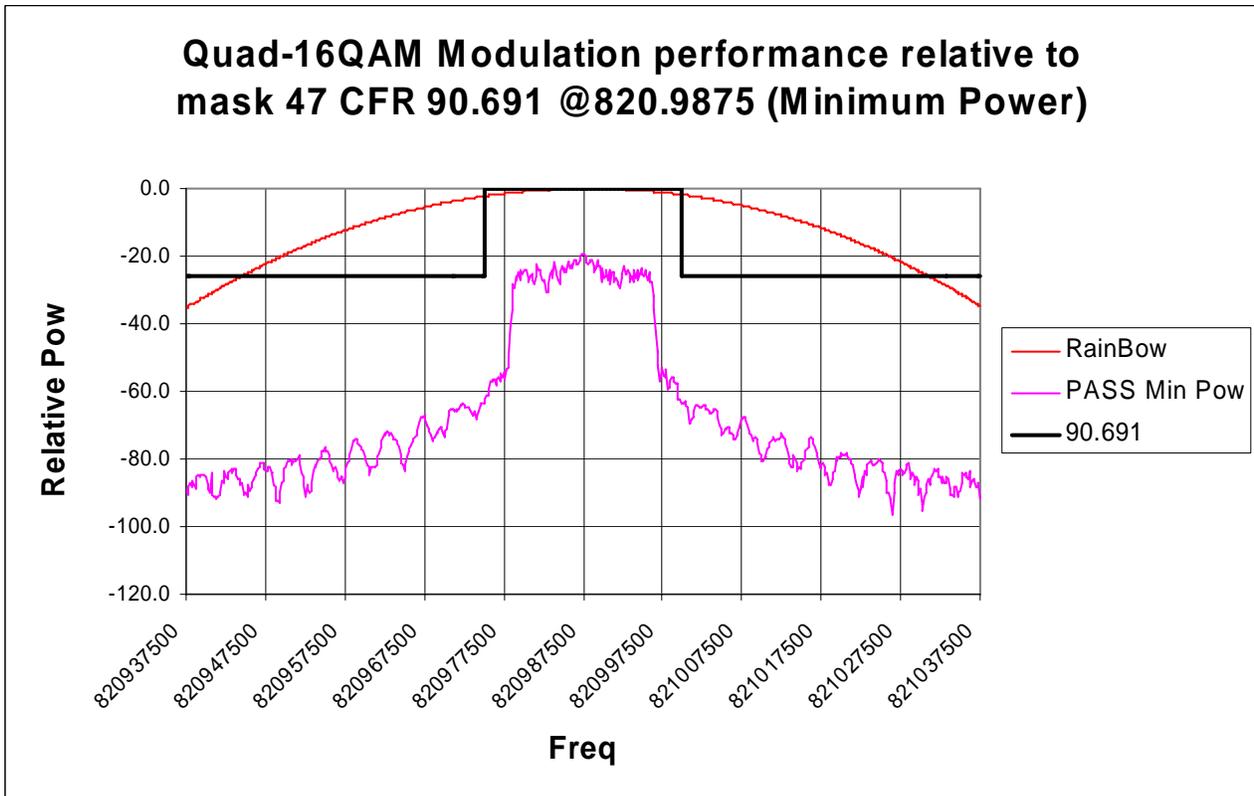


Figure 6a-2.3.8. WiDEN25 800 MHz Band, QAM16, Minimum Power, EA Emission Mask

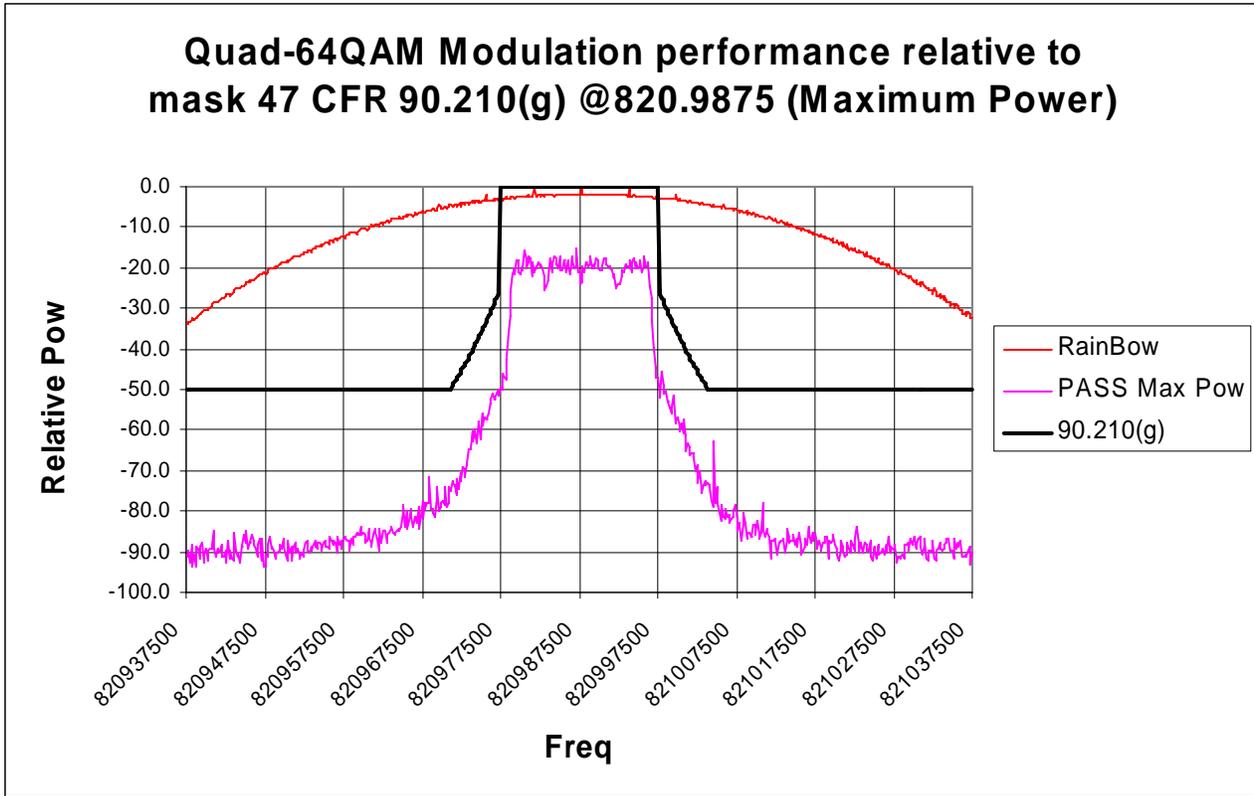


Figure 6a-2.3.9. WiDEN25 800 MHz Band, QAM64, Maximum Power, Emission Mask G

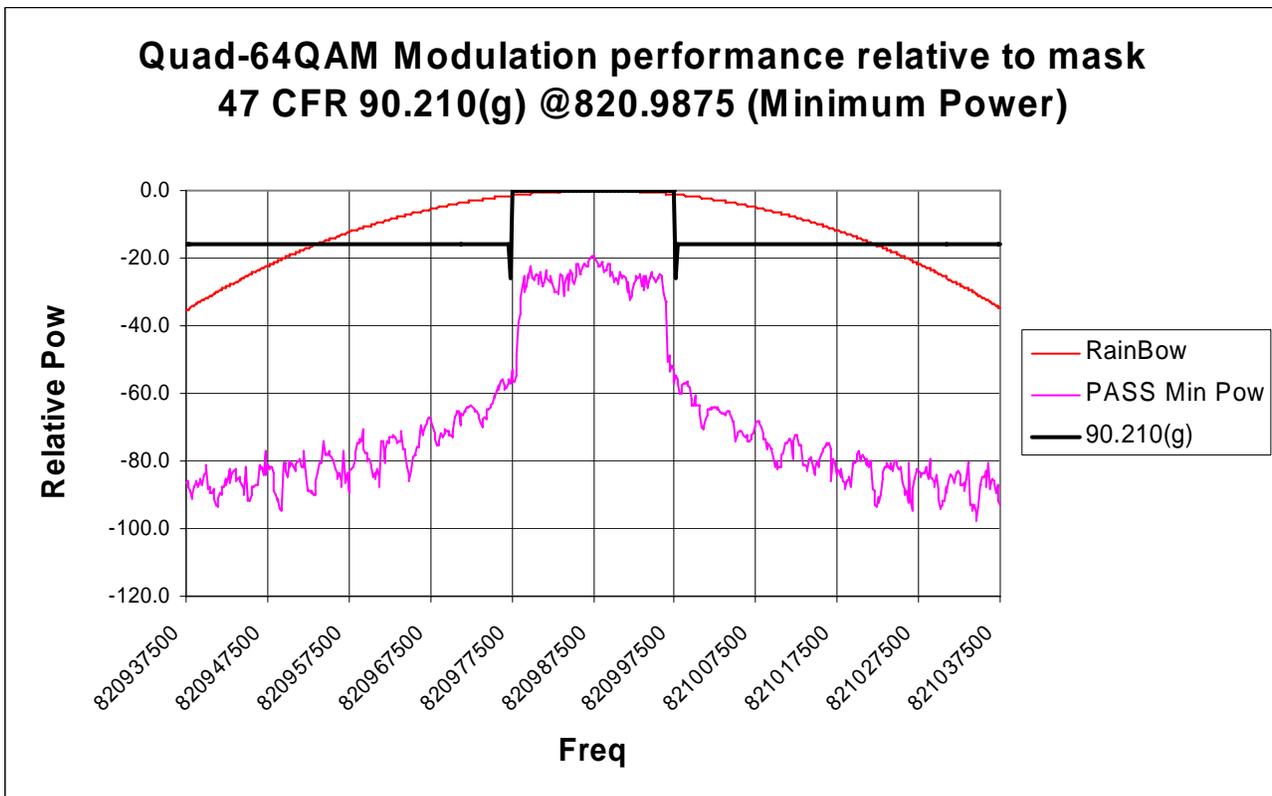


Figure 6a-2.3.10. WiDEN25 800 MHz Band, QAM64, Minimum Power, Emission Mask G

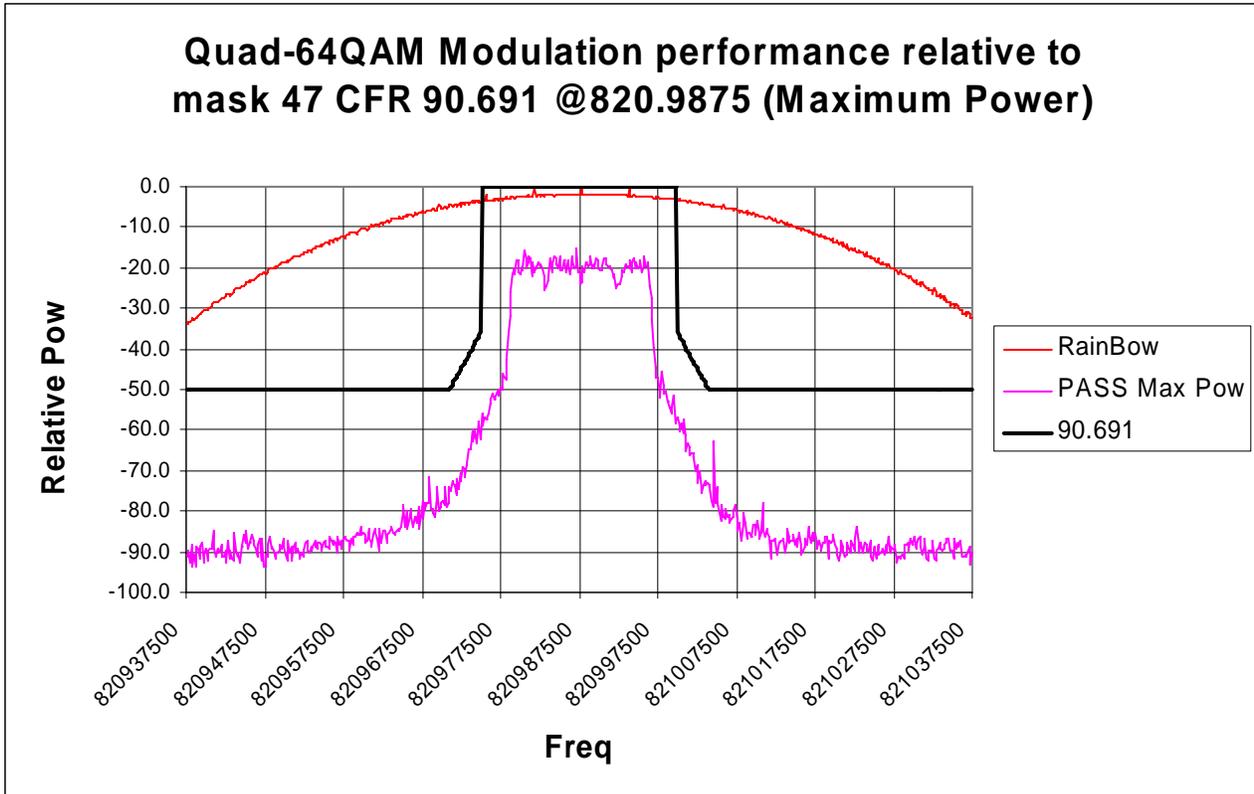


Figure 6a-2.3.11. WiDEN25 800 MHz Band, QAM64, Maximum Power, EA Emission Mask

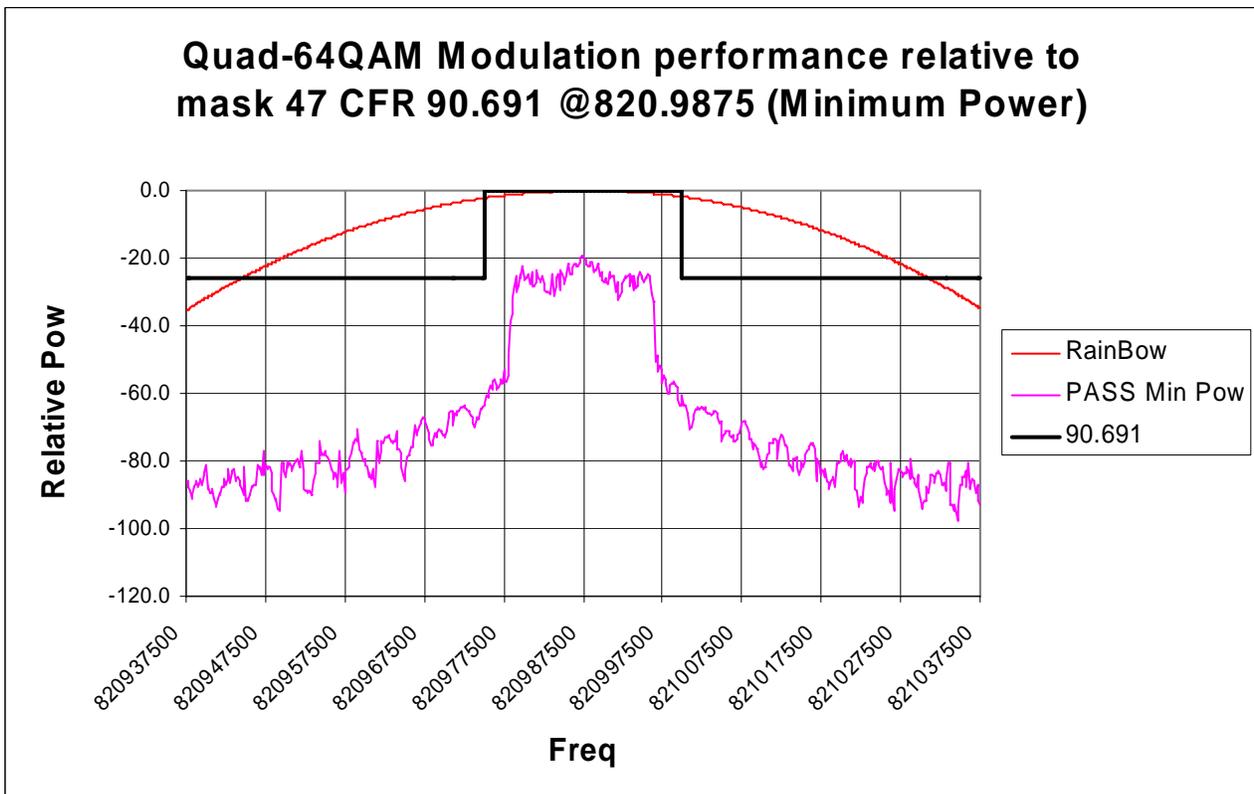


Figure 6a-2.3.12. WiDEN25 800 MHz Band, QAM64, Minimum Power, EA Emission Mask

### 6a.2.4 Emission Designator 43K3D7D - WiDEN50 800 MHz Band

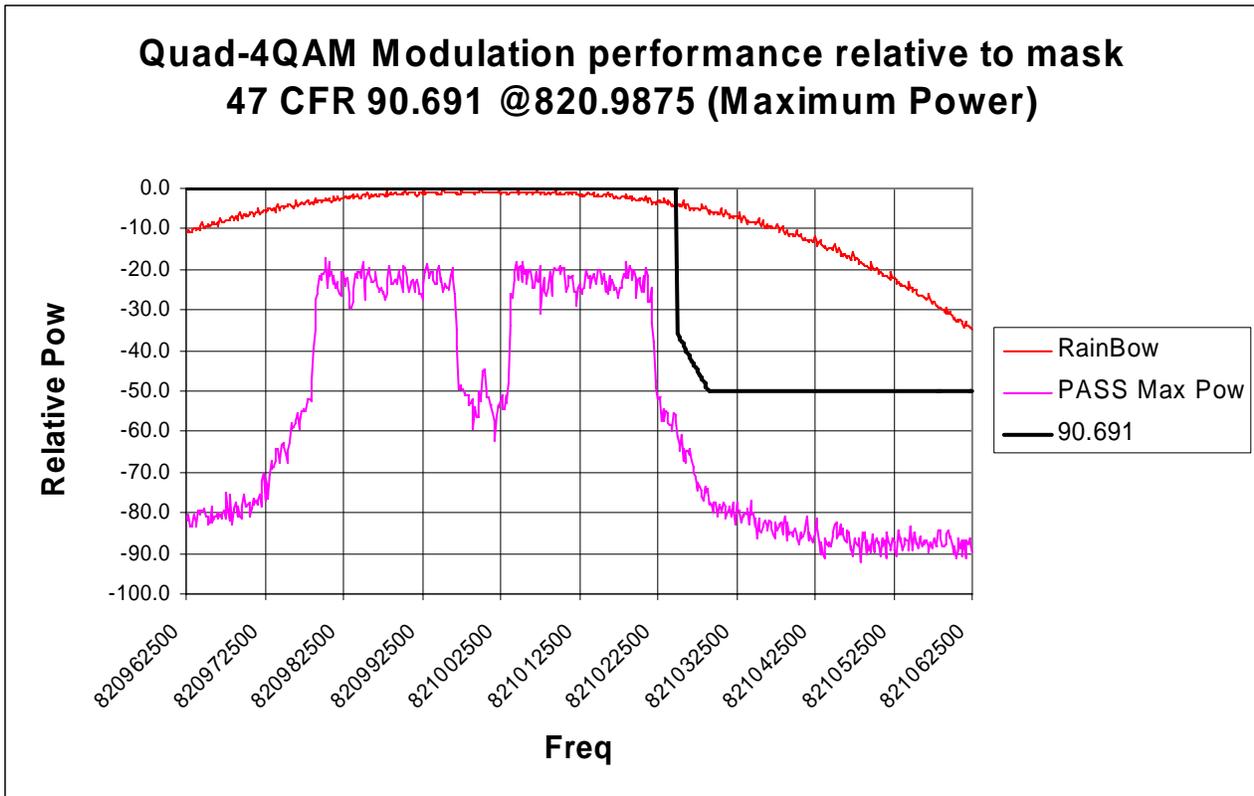
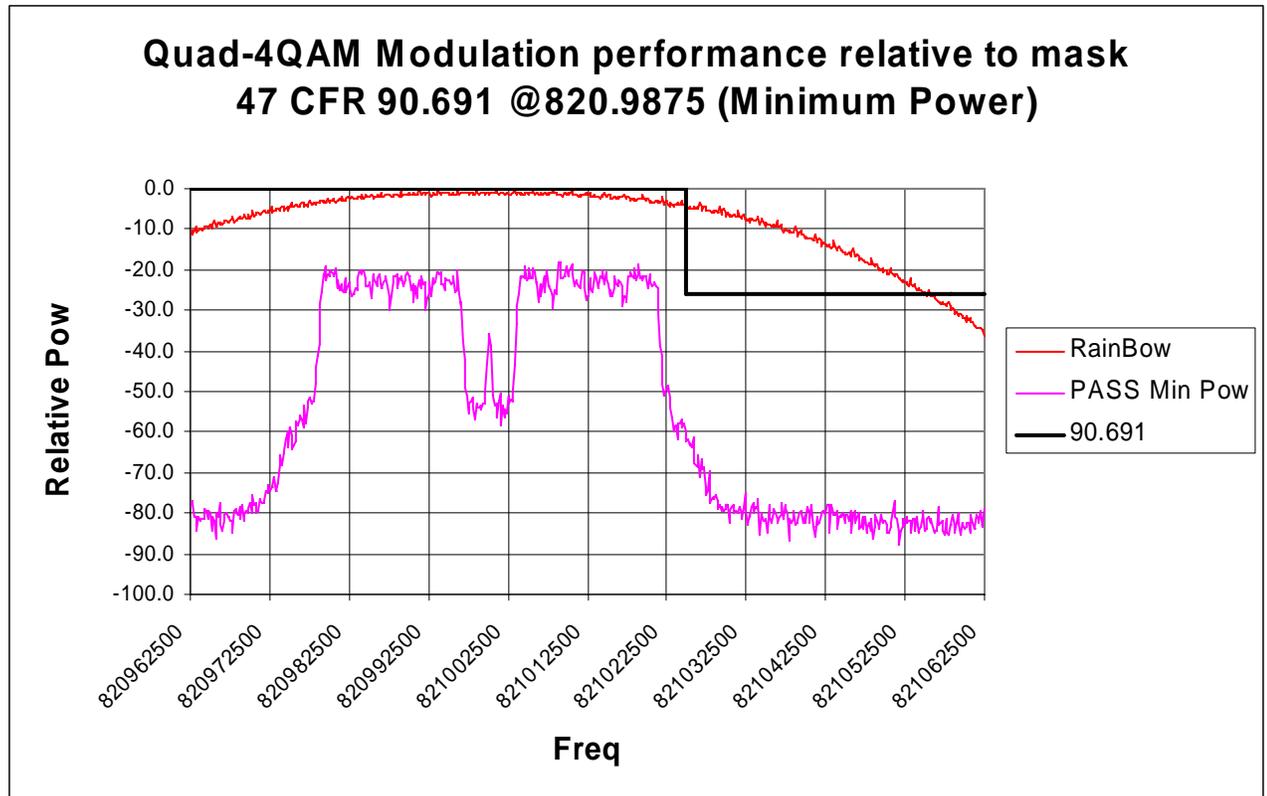


Figure 6a-2.4.1. WiDEN50 800 MHz Band, Continuous Quad-QPSK, Maximum Power, EA Emission Mask



**Figure 6a-2.4.2. WiDEN50 800 MHz Band, Continuous Quad-QPSK, Minimum Power, EA Emission Mask**

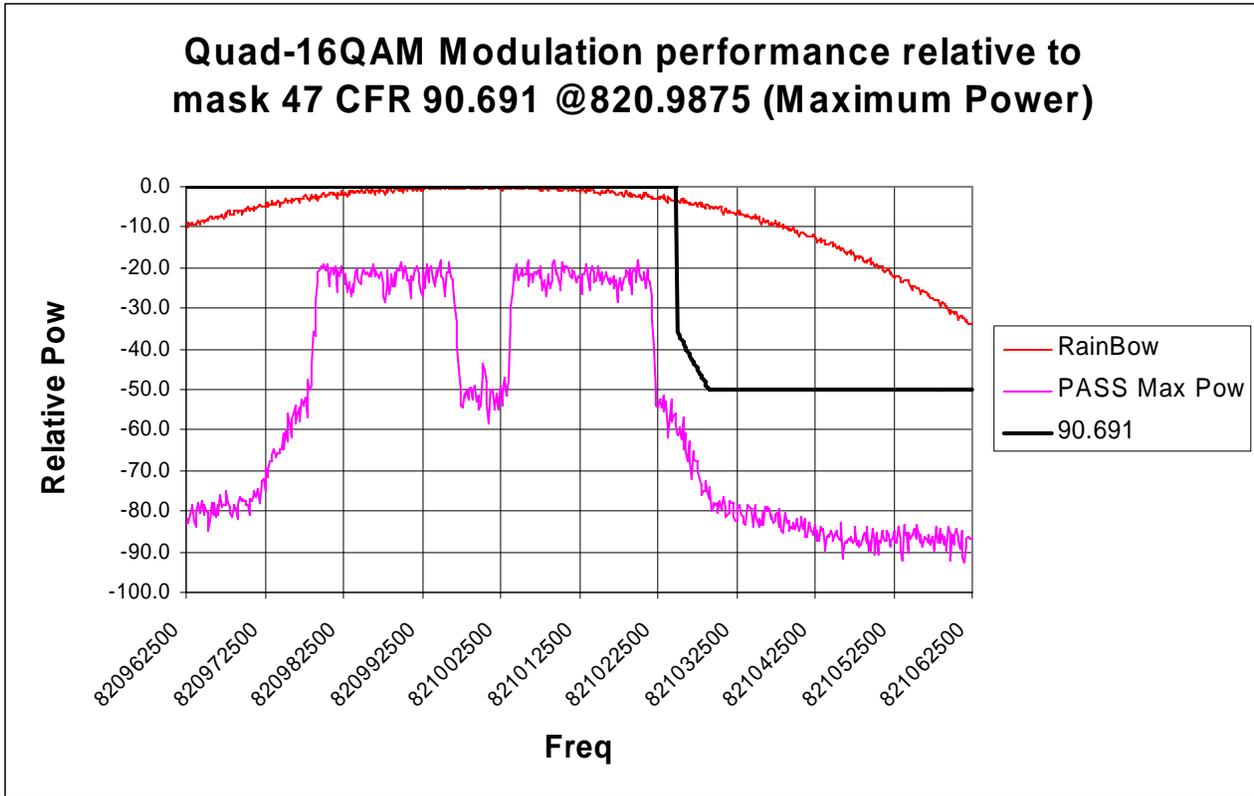
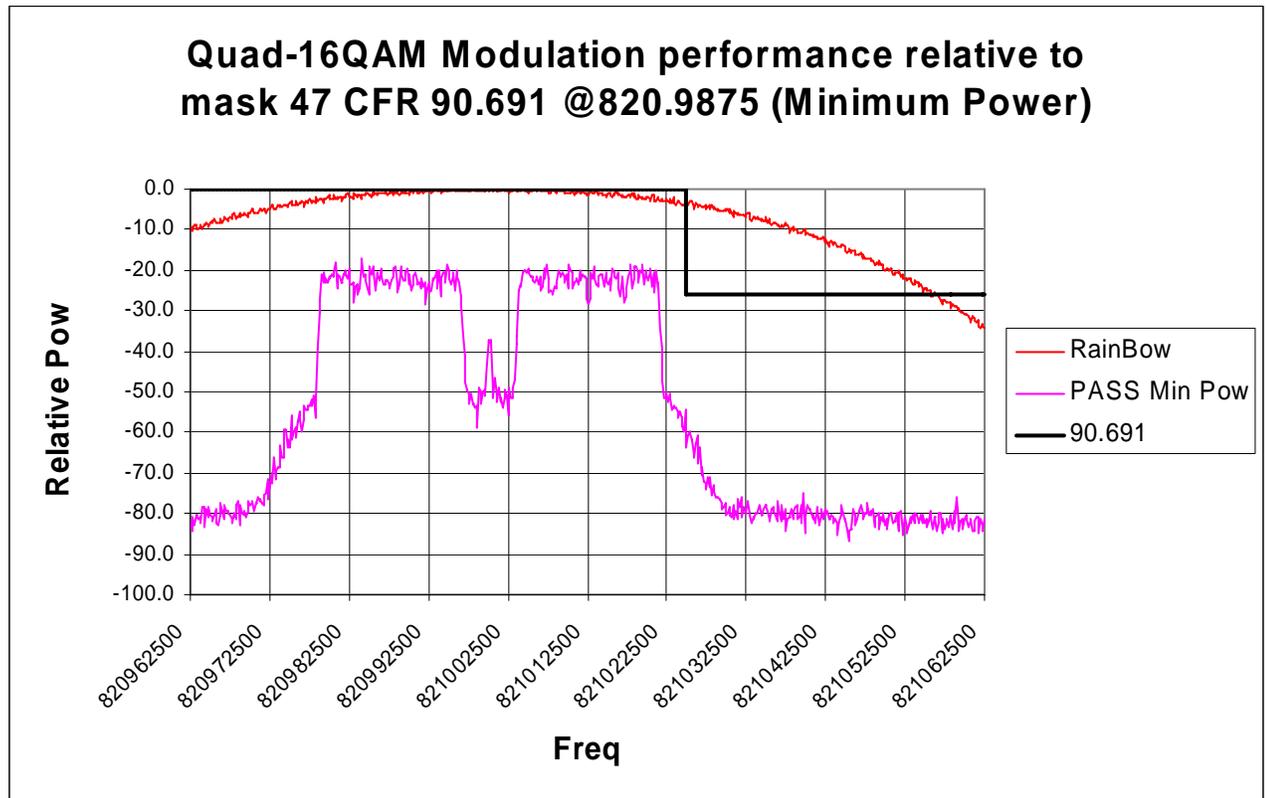


Figure 6a-2.4.3. WiDEN50 800 MHz Band, Continuous QAM16, Maximum Power, EA Emission Mask



**Figure 6a-2.4.4. WiDEN50 800 MHz Band, Continuous QAM16, Minimum Power, EA Emission Mask**

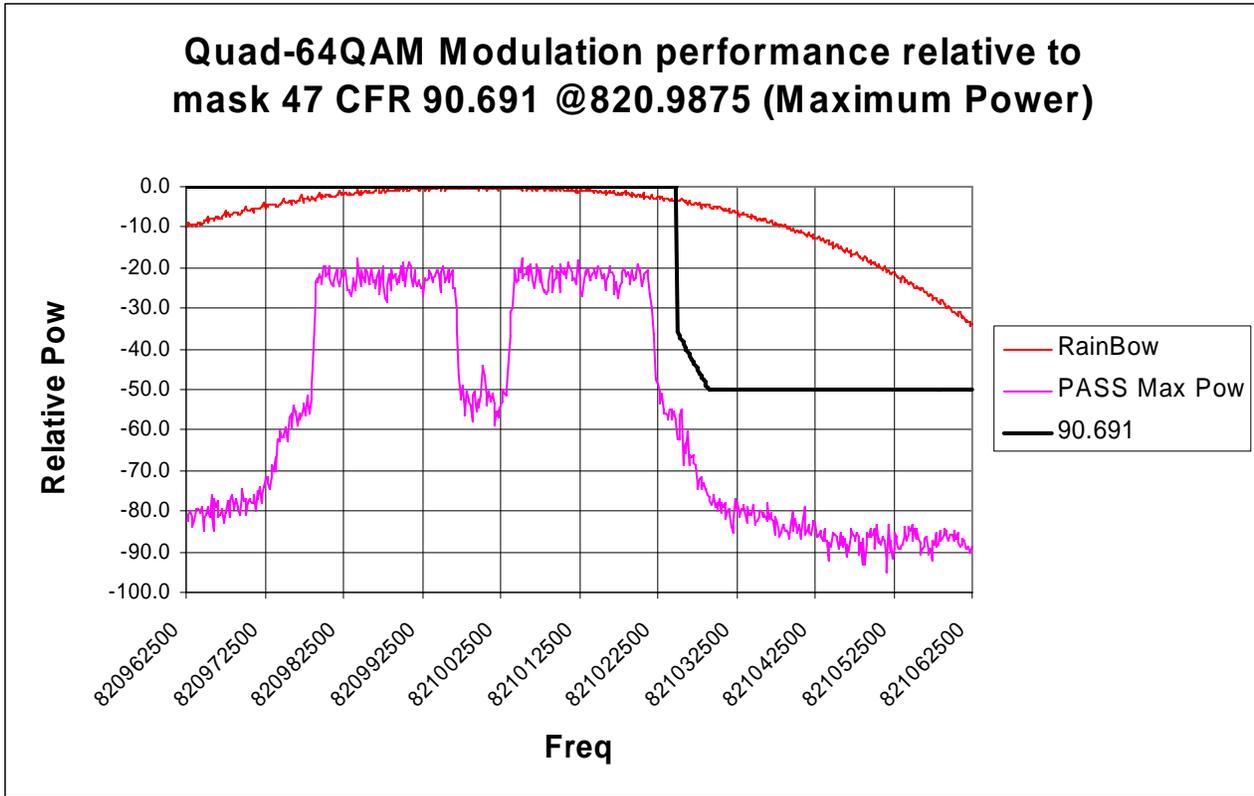


Figure 6a-2.4.5. WiDEN50 800 MHz Band, Continuous QAM64, Maximum Power, EA Emission Mask

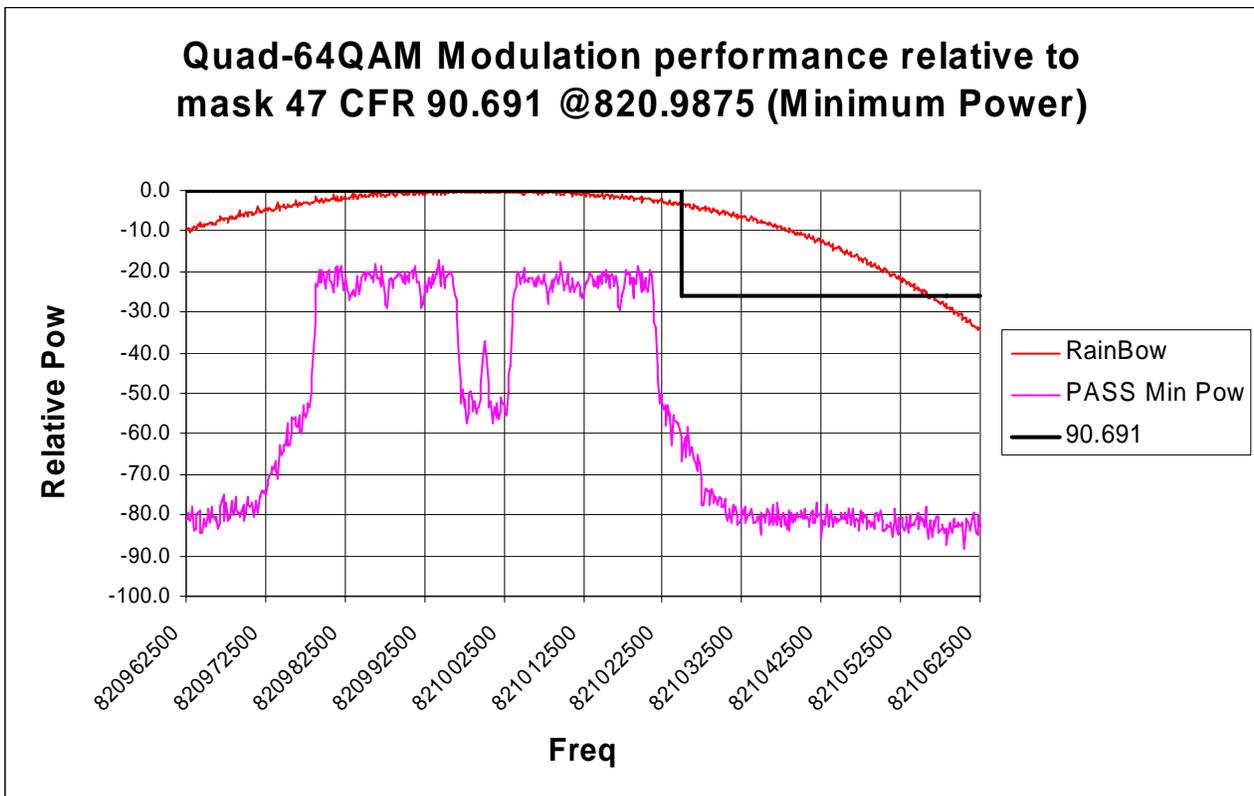


Figure 6a-2.4.6. WiDEN50 800 MHz Band, Continuous QAM64, Minimum Power, EA Emission Mask

### 6a.2.5 Emission Designator 68K3D7D - WiDEN75 800 MHz Band

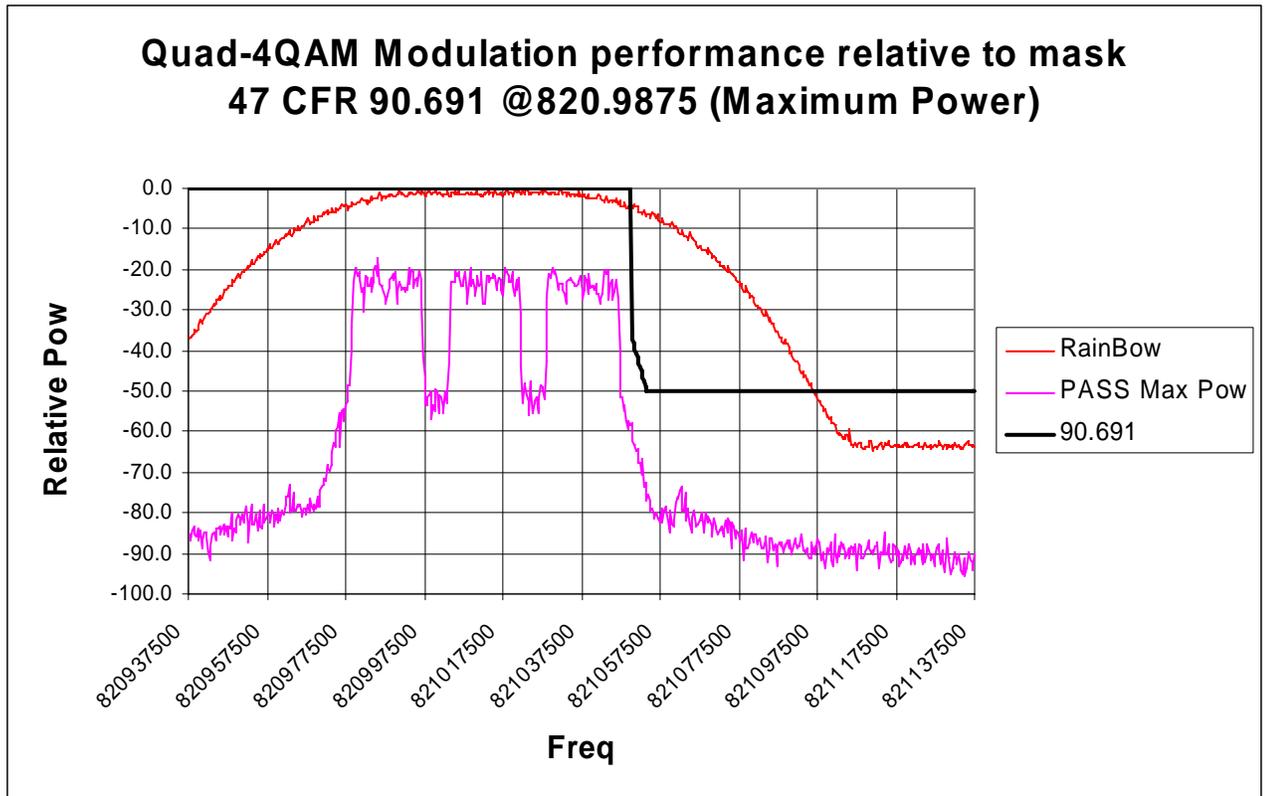


Figure 6a-2.5.1. WiDEN75 800 MHz Band, Quad-QPSK, Maximum Power, EA Emission Mask

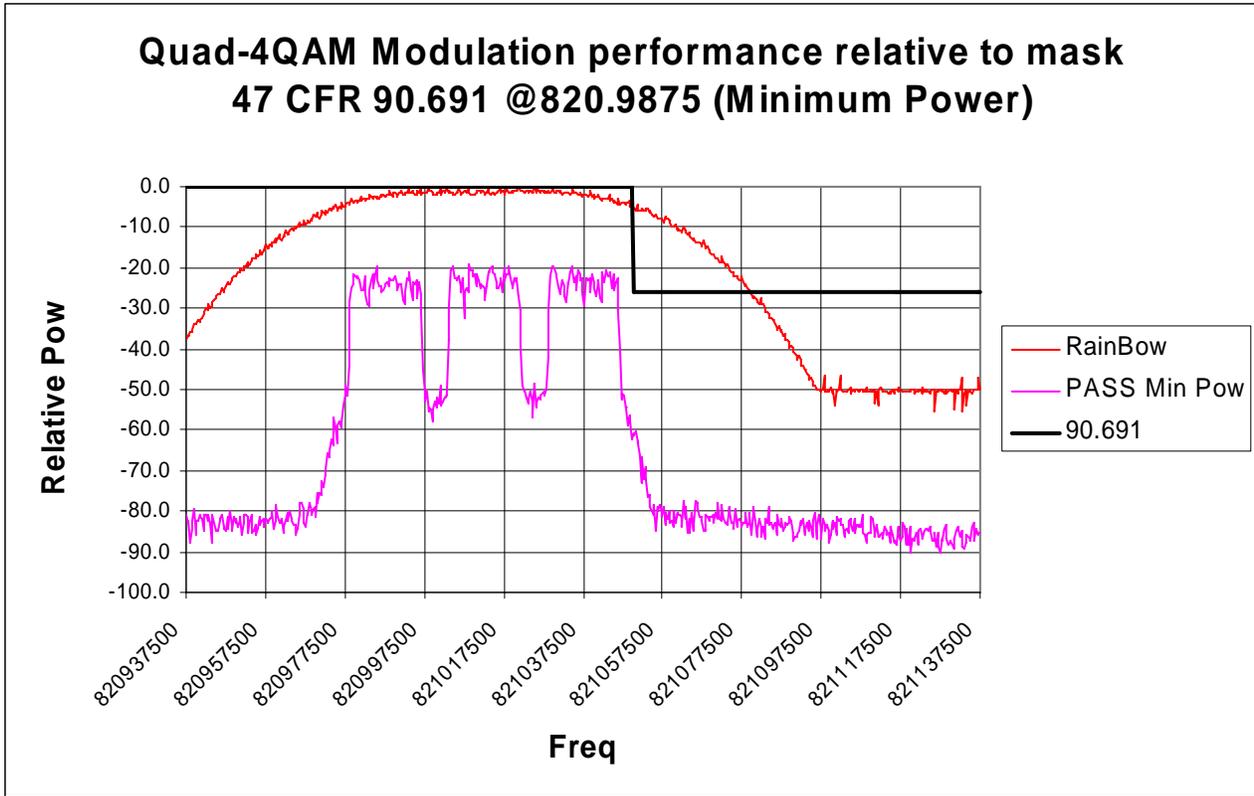


Figure 6a-2.5.2. WiDEN75 800 MHz Band, Quad-QPSK, Minimum Power, EA Emission Mask

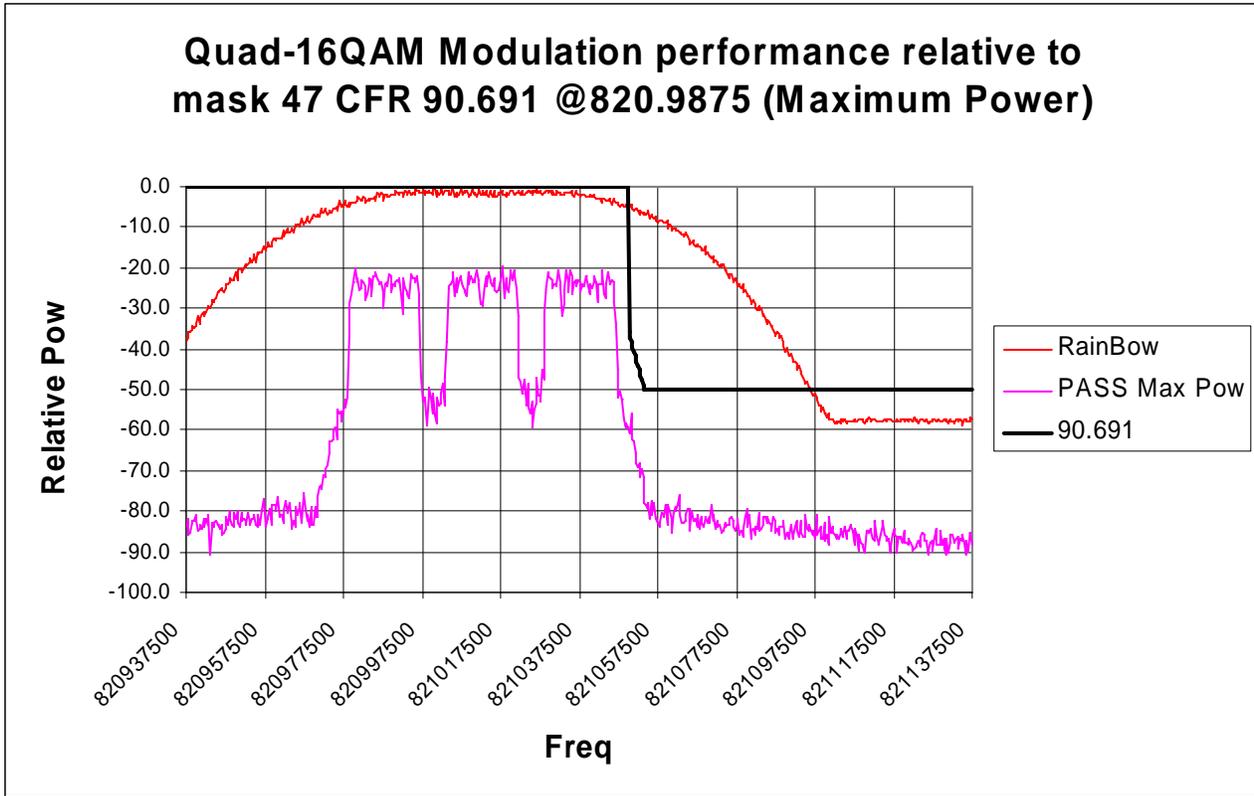


Figure 6a-2.5.3. WiDEN75 800 MHz Band, QAM16, Maximum Power, EA Emission Mask

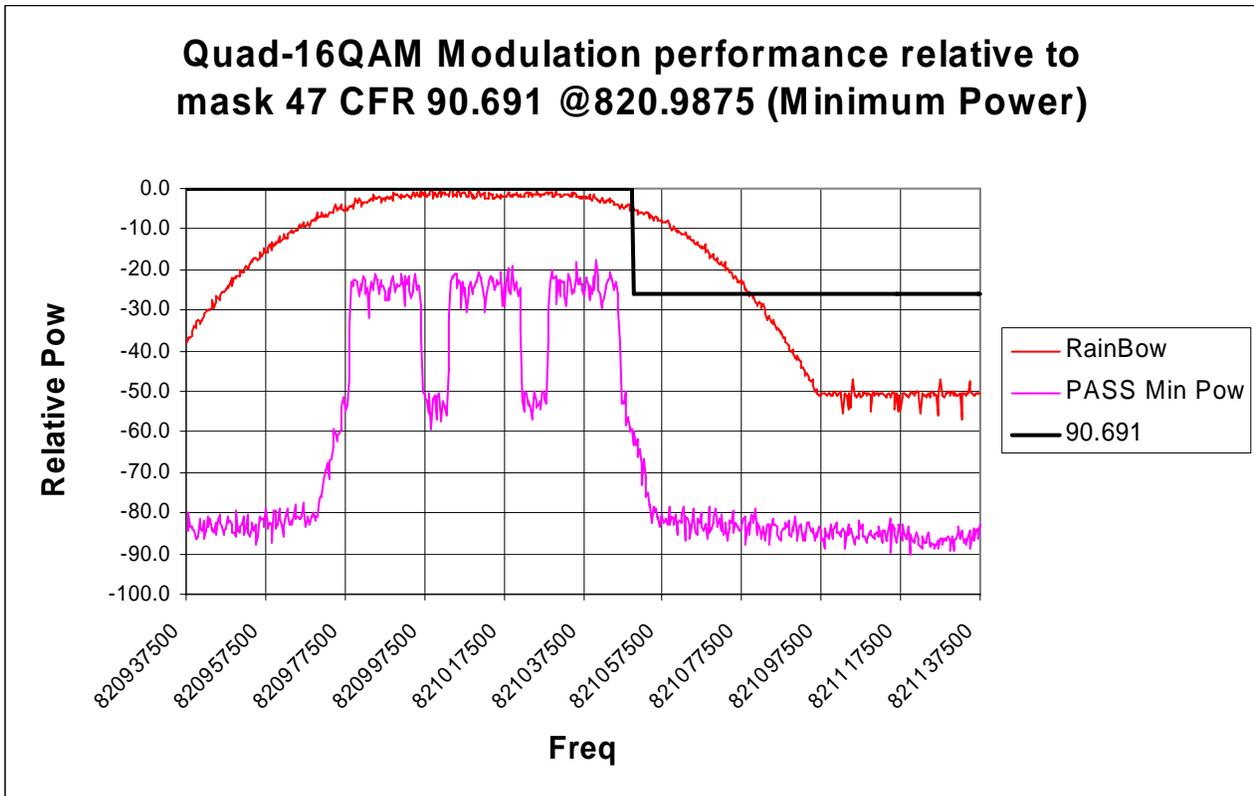


Figure 6a-2.5.4. WiDEN75 800 MHz Band, QAM16, Minimum Power, EA Emission Mask

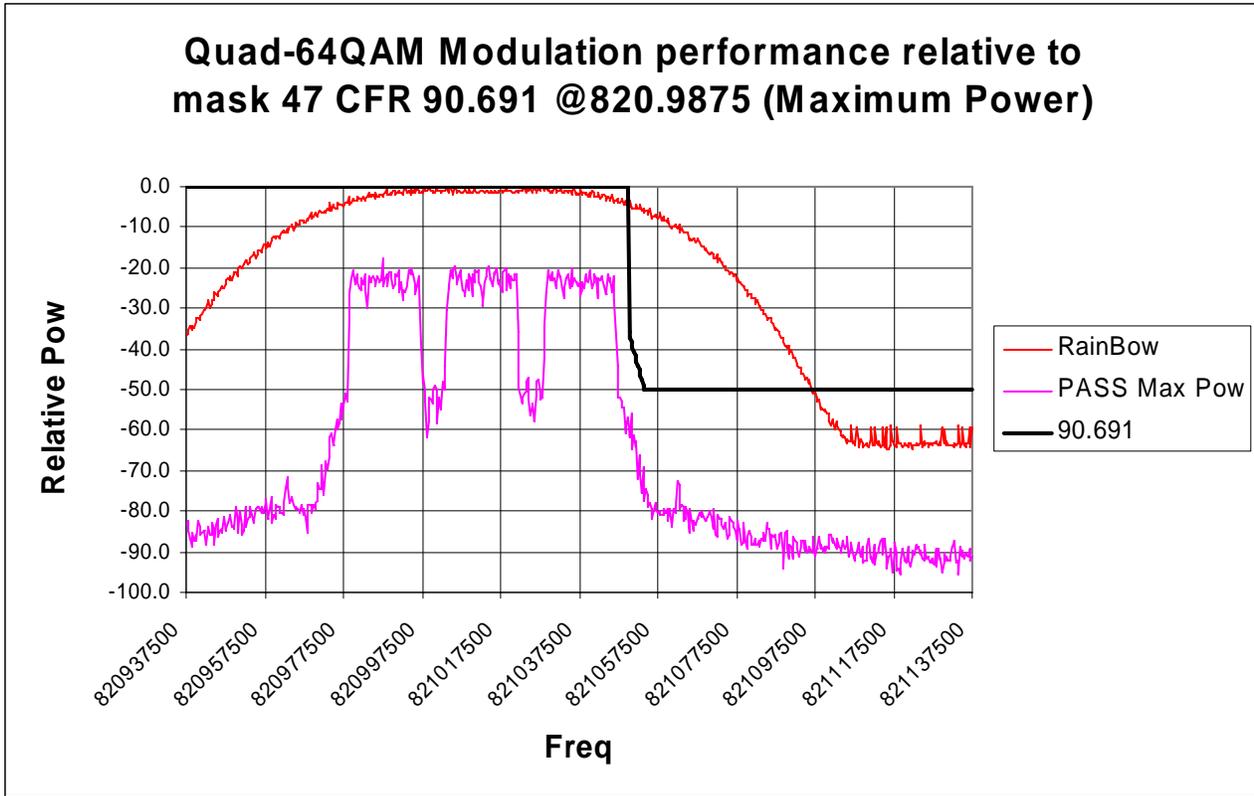


Figure 6a-2.5.5. WiDEN75 800 MHz Band, QAM64, Maximum Power, EA Emission Mask

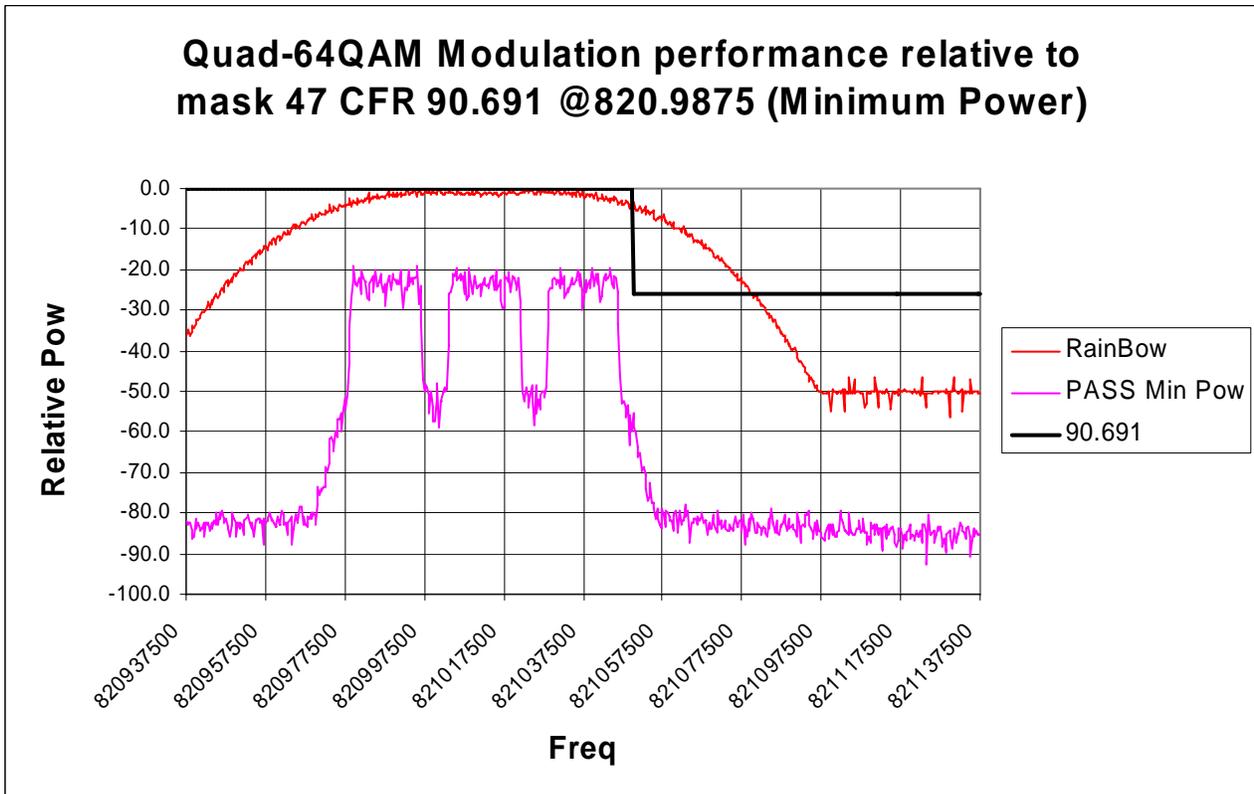


Figure 6a-2.5.6. WiDEN75 800 MHz Band, QAM64, Minimum Power, EA Emission Mask

### 6a.2.6 Emission Designator 93K3D7D - WiDEN100 800 MHz Band

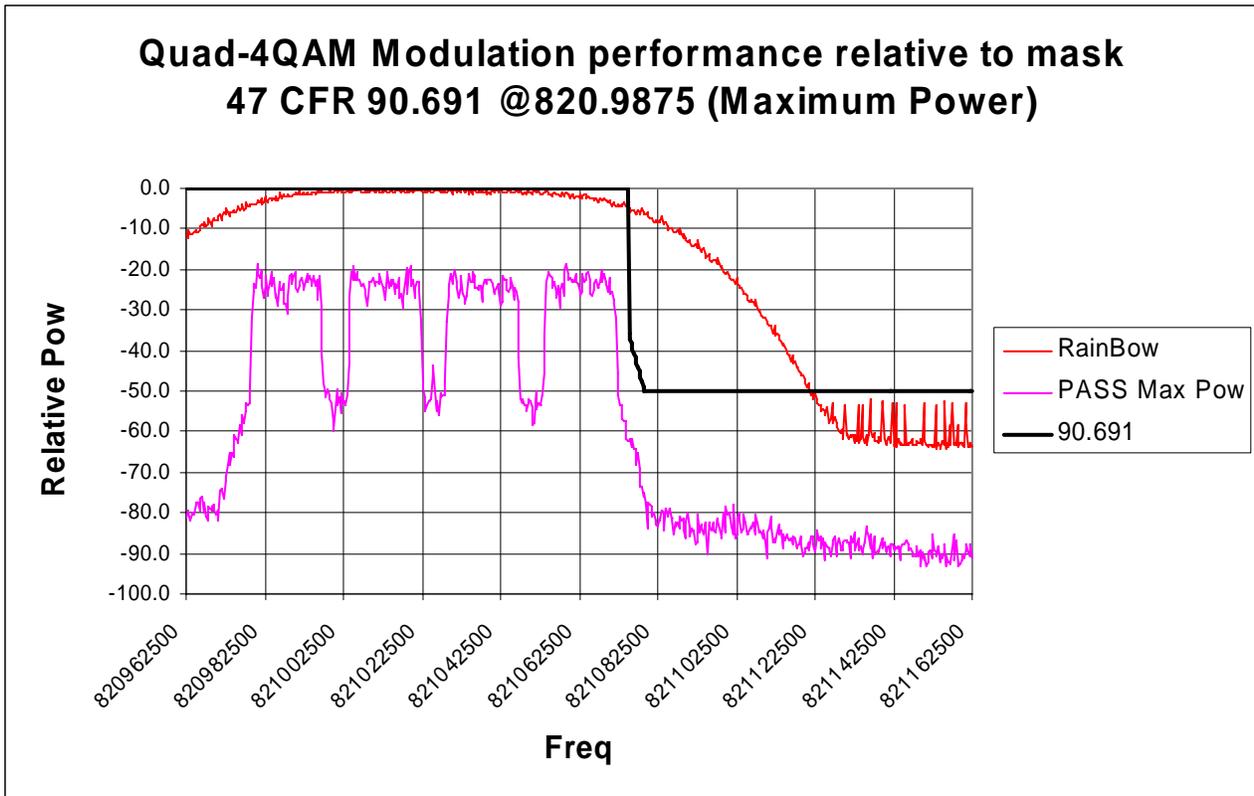


Figure 6a-2.6.1. WiDEN100 800 MHz Band, Quad-QPSK, Maximum Power, EA Emission Mask

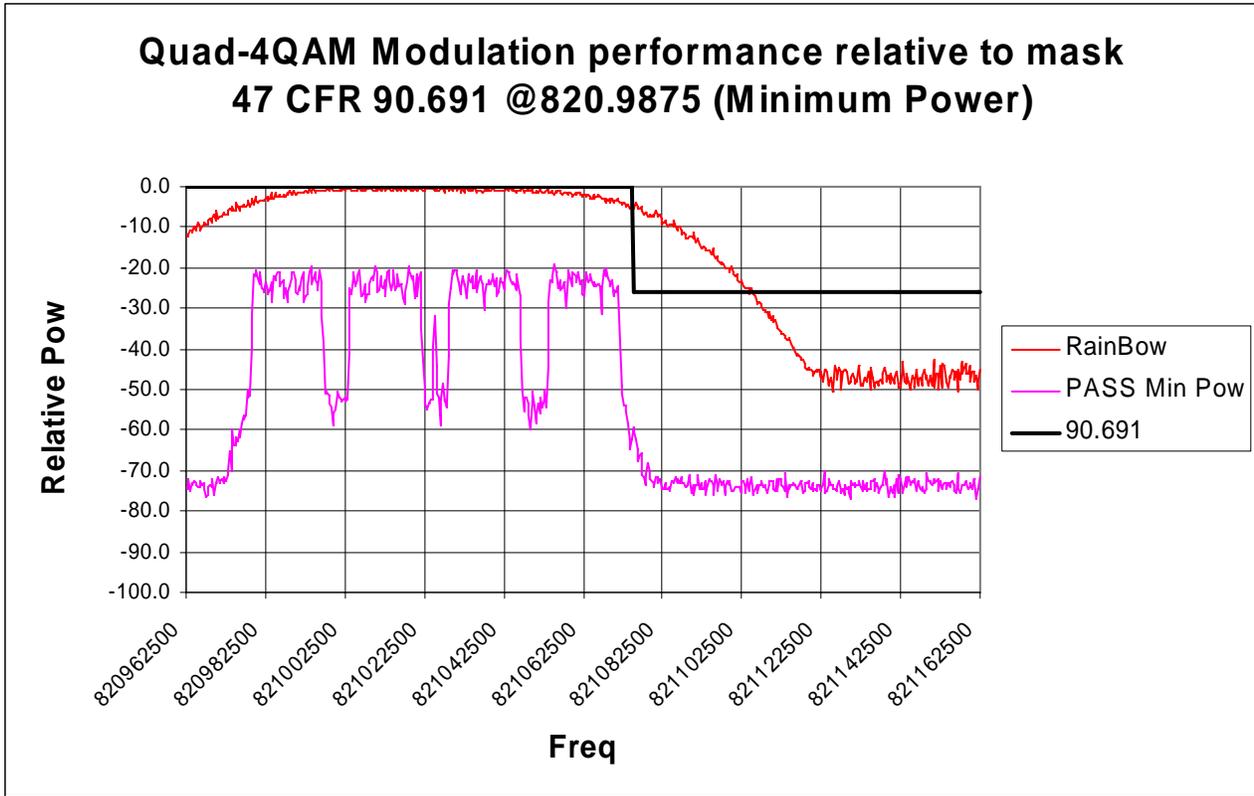


Figure 6a-2.6.2. WiDEN100 800 MHz Band, Quad-QPSK, Minimum Power, EA Emission Mask

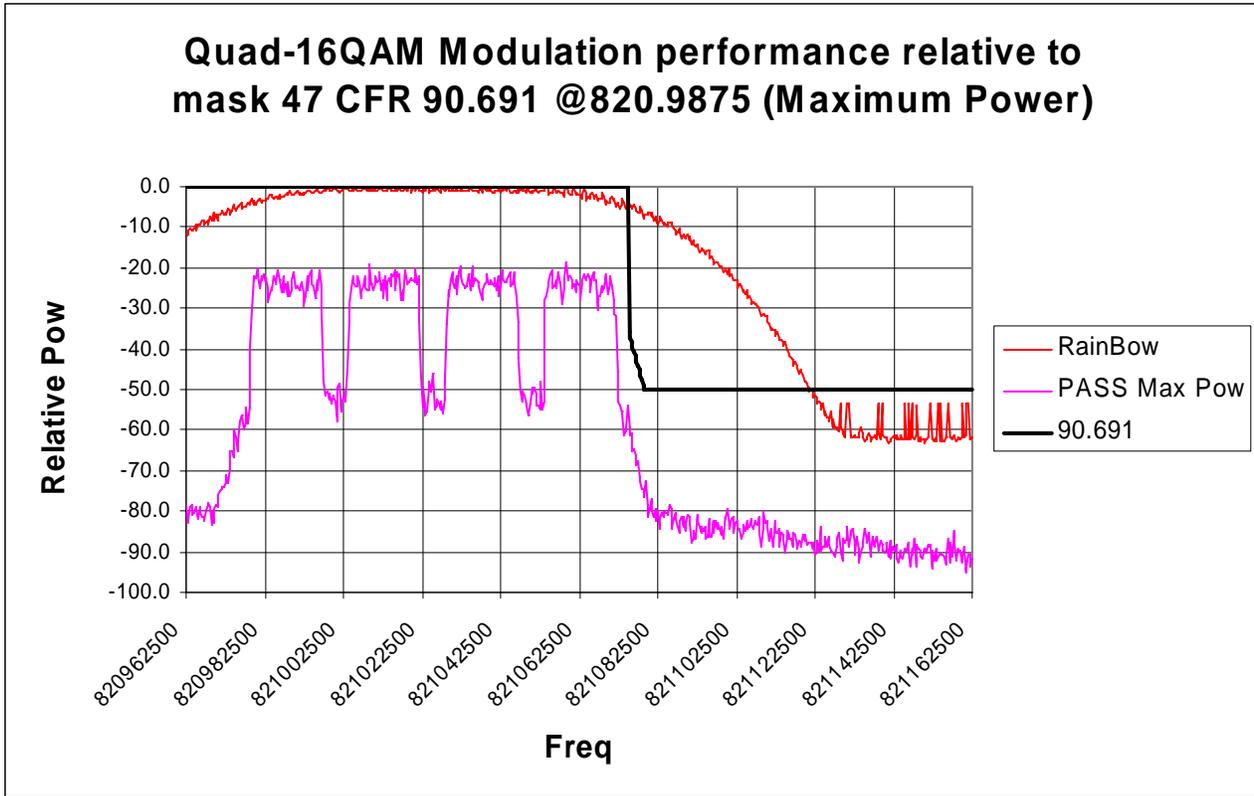


Figure 6a-2.6.3. WiDEN100 800 MHz Band, QAM16, Maximum Power, EA Emission Mask

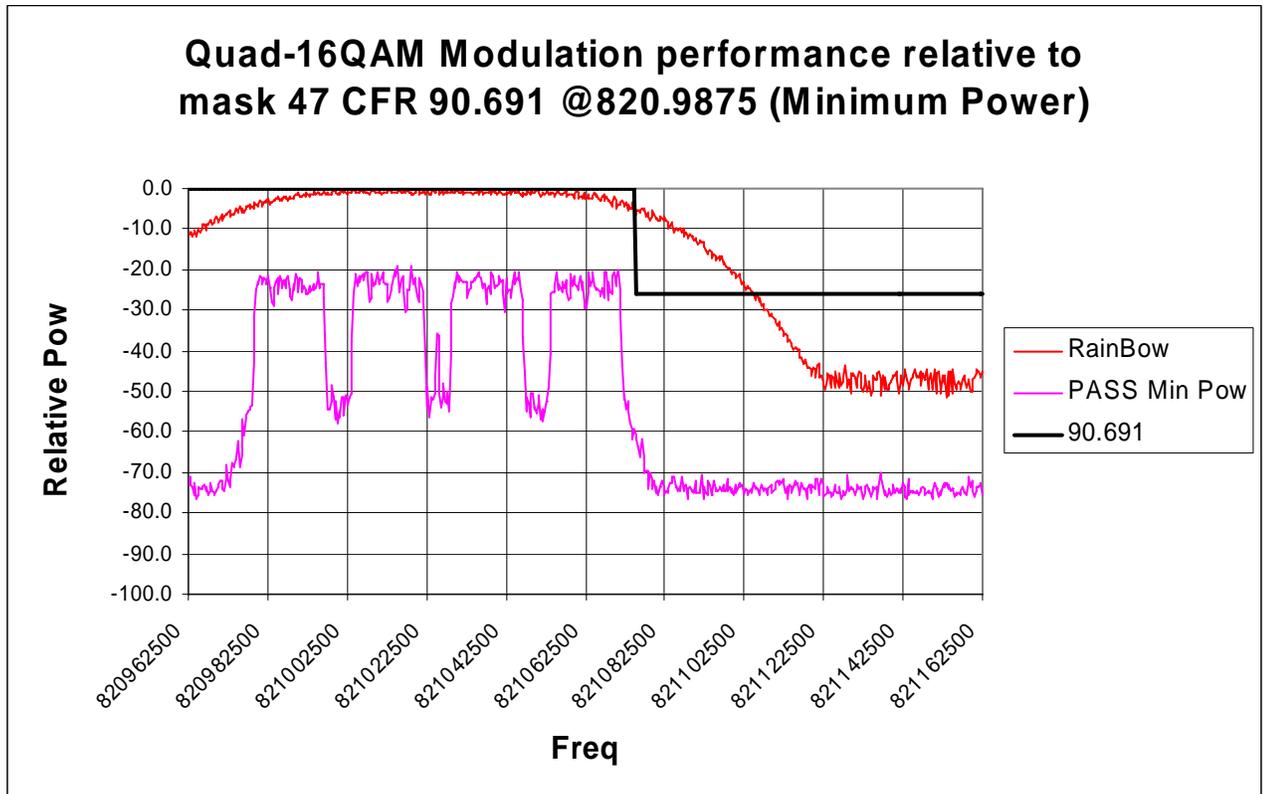


Figure 6a-2.6.4. WiDEN100 800 MHz Band, QAM16, Minimum Power, EA Emission Mask

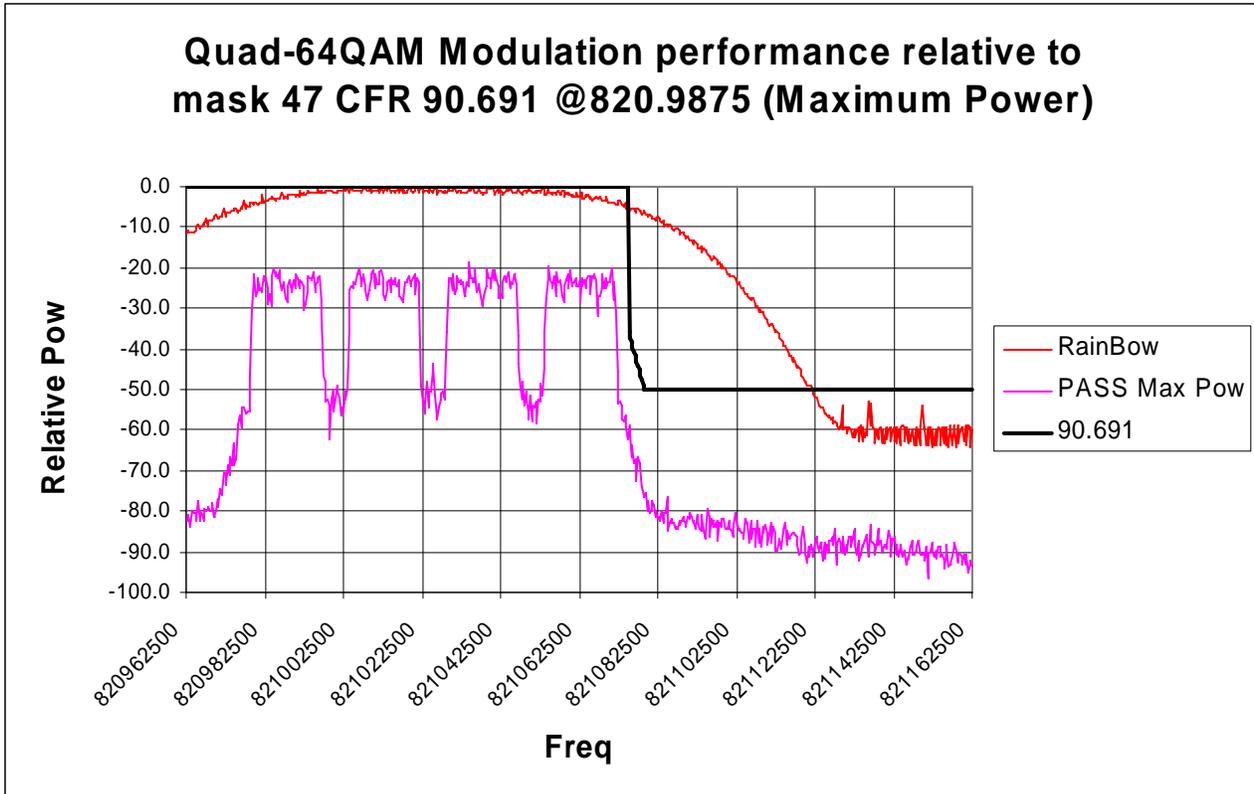


Figure 6a-2.6.5. WiDEN100 800 MHz Band, QAM64, Maximum Power, EA Emission Mask

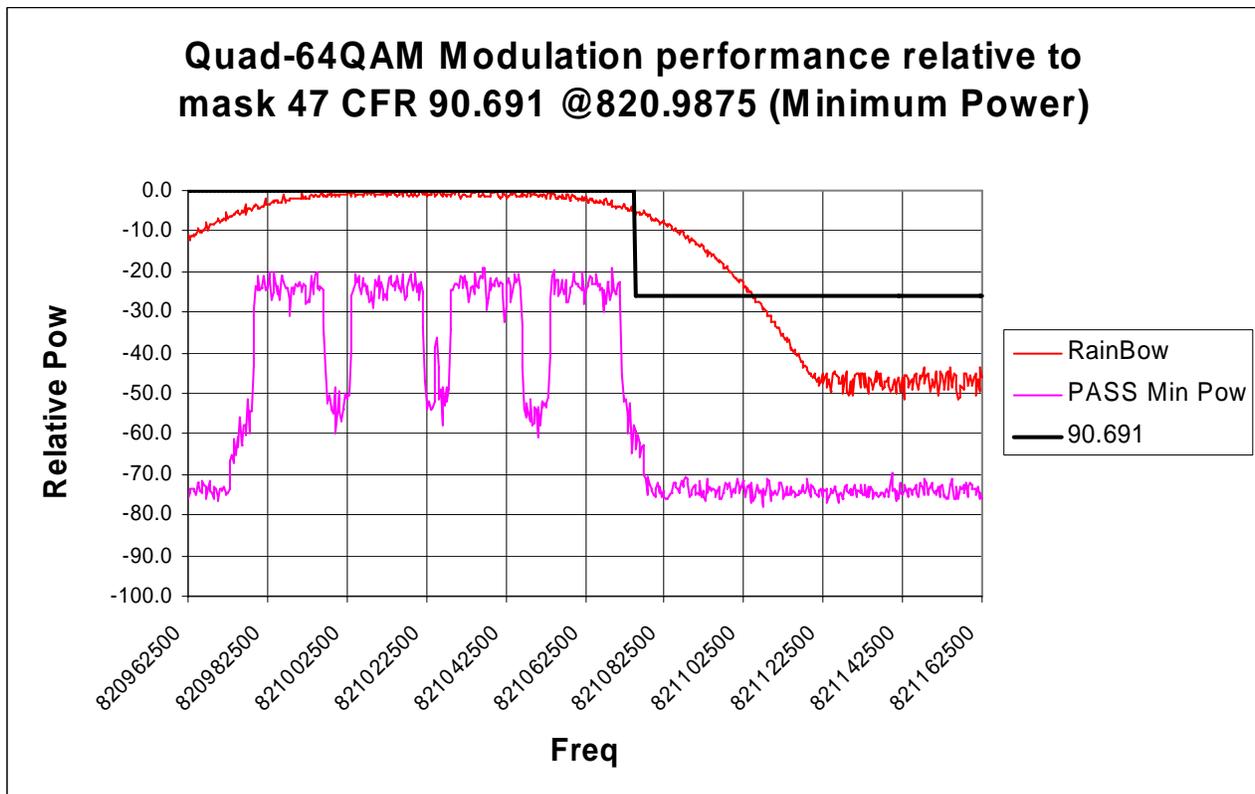


Figure 6a-2.6.6. WiDEN100 800 MHz Band, QAM64, Minimum Power, EA Emission Mask

### 6a.2.7 Emission Designator 93K3D7D – WiDEN 50 Split 800 MHz Band

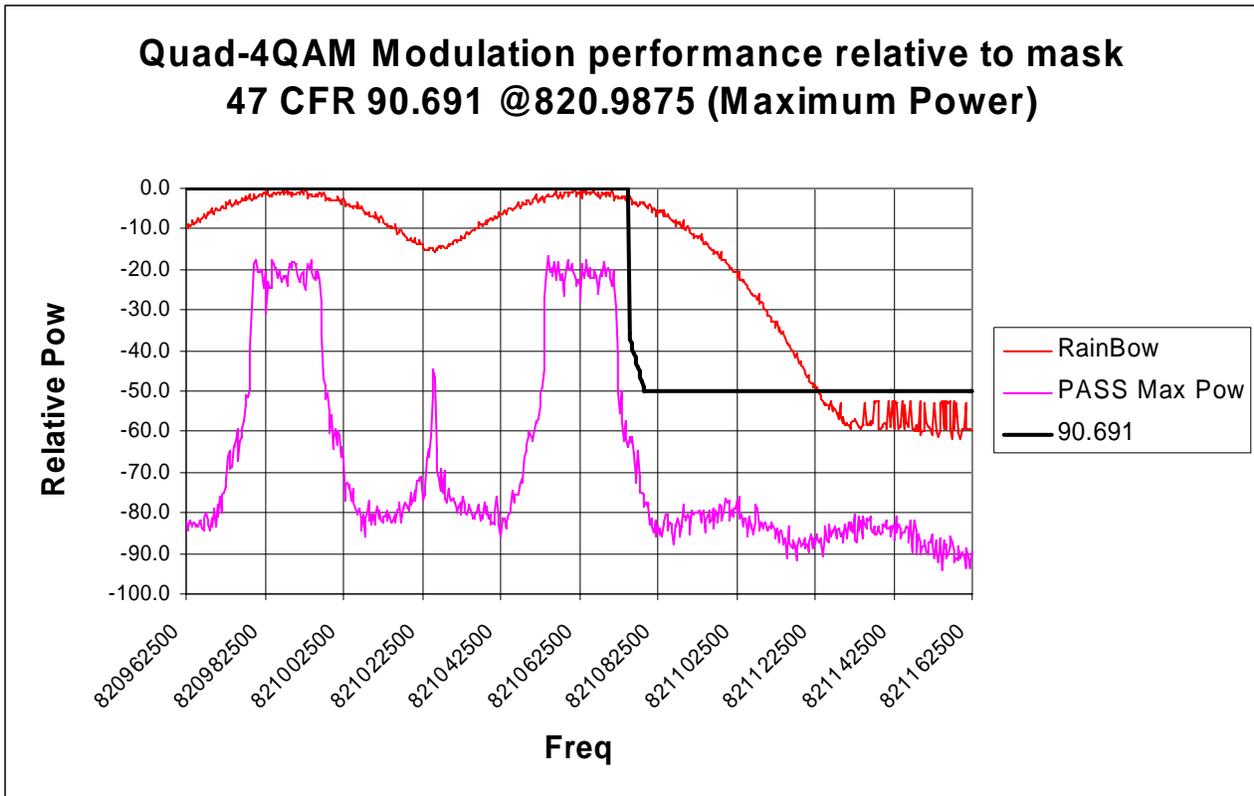
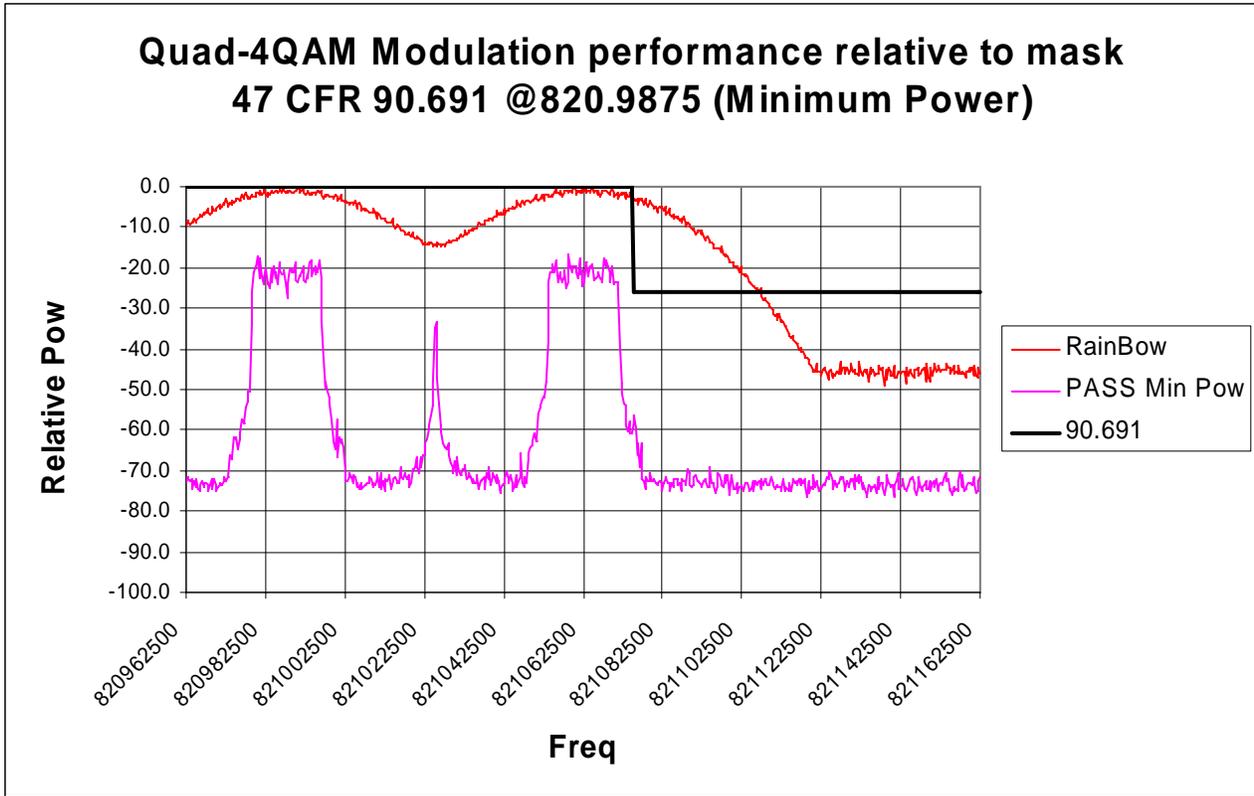


Figure 6a-2.7.1. WiDEN50 Split 800 MHz Band, Quad-QPSK, Maximum Power, EA Emission Mask



**Figure 6a-2.7.2. WiDEN50 Split 800 MHz Band, Quad-QPSK, Minimum Power, EA Emission Mask**

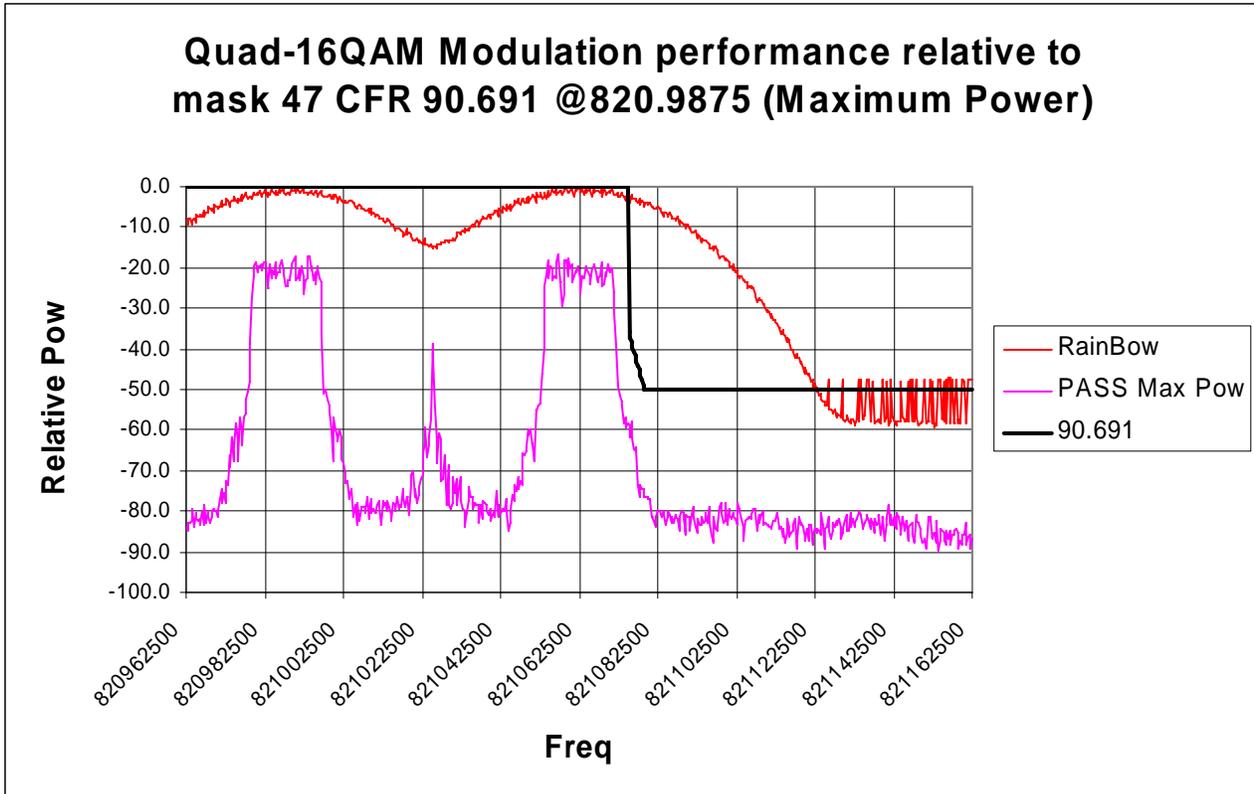


Figure 6a-2.7.3. WiDEN50 Split 800 MHz Band, QAM16, Maximum Power, EA Emission Mask

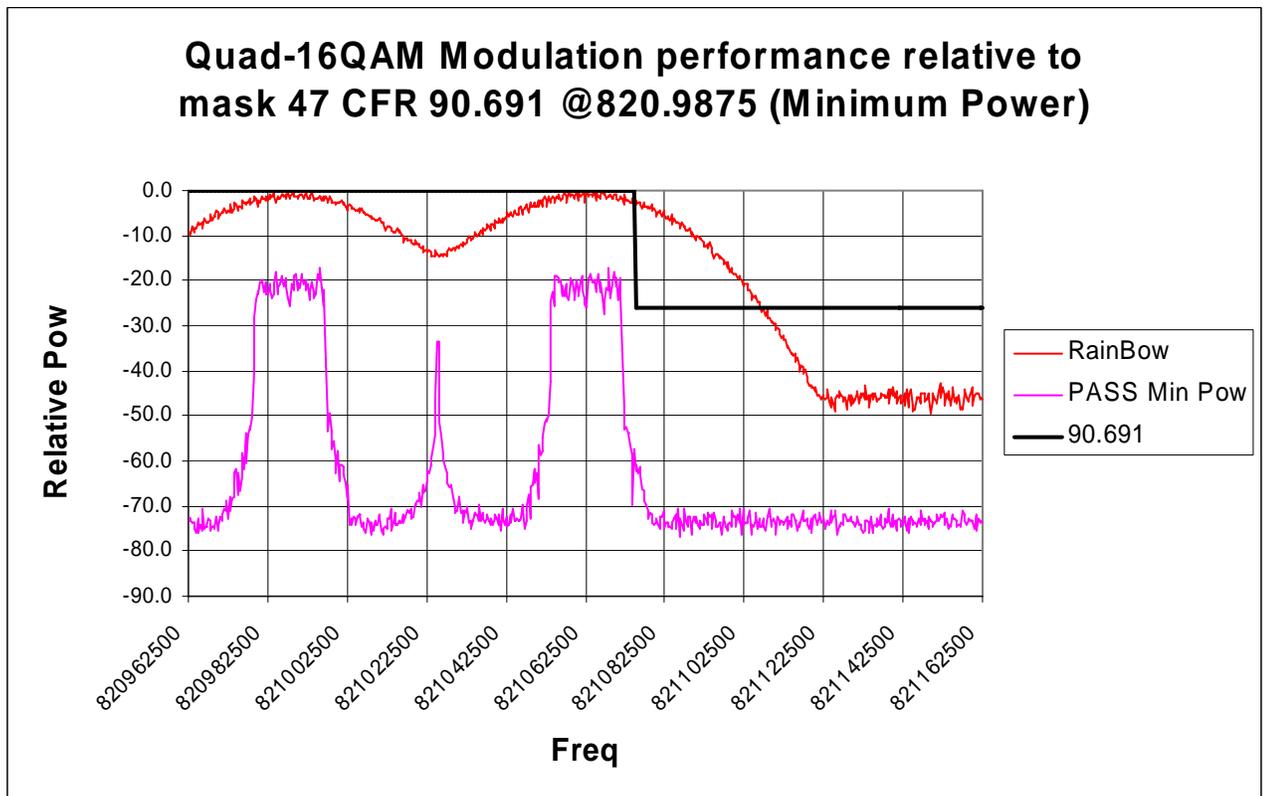


Figure 6a-2.7.4. WiDEN50 Split 800 MHz Band, QAM16, Minimum Power, EA Emission Mask

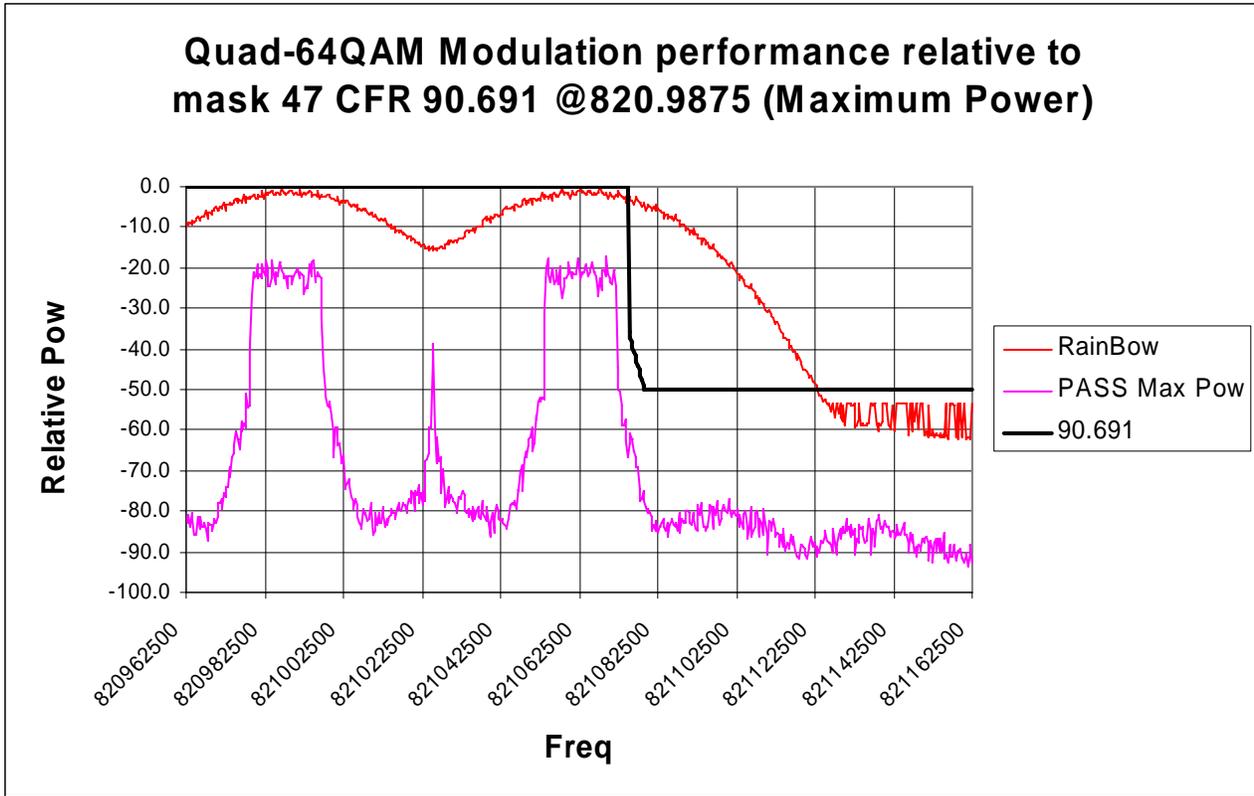


Figure 6a-2.7.5. WiDEN50 Split 800 MHz Band, QAM64, Maximum Power, EA Emission Mask

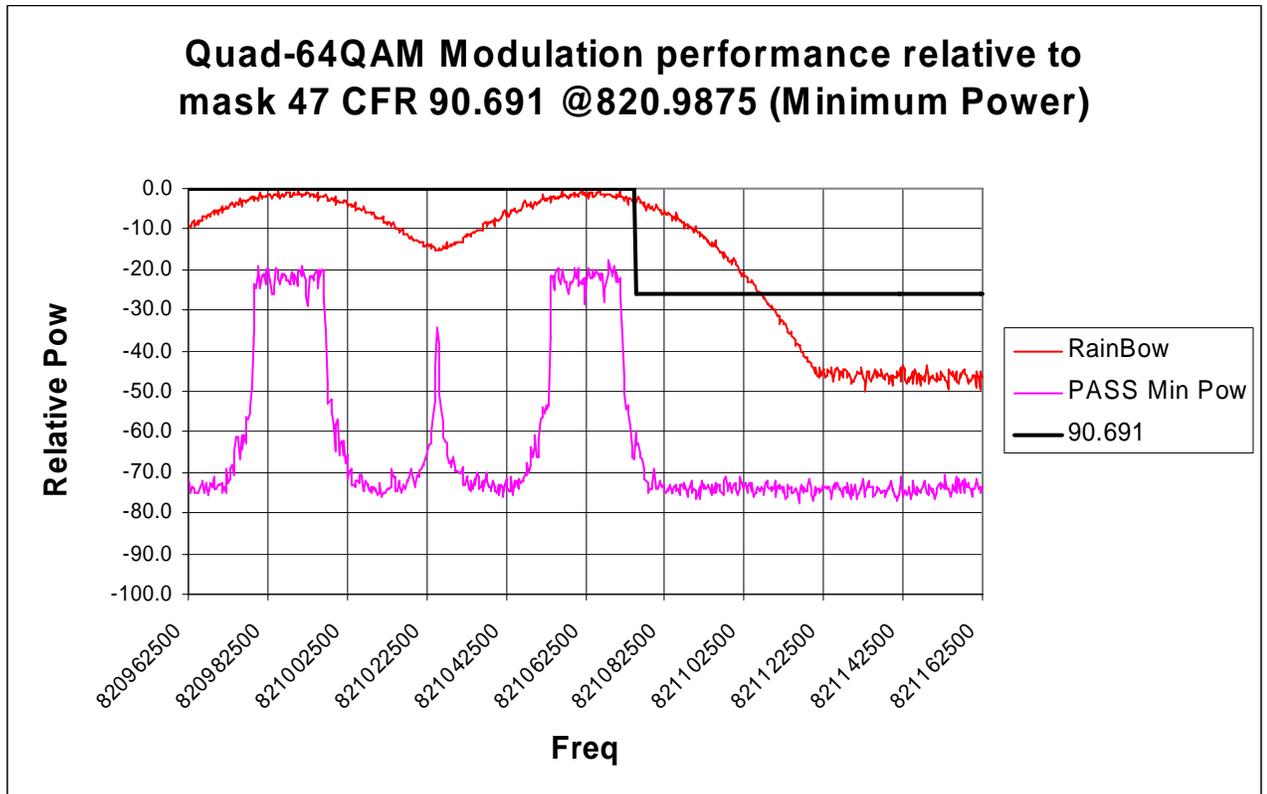


Figure 6a-2.7.6. WiDEN50 Split 800 MHz Band, QAM64, Minimum Power, EA Emission Mask

### 6a.2.8 Emission Designator 18K3D7W - WiDEN25 900 MHz Band

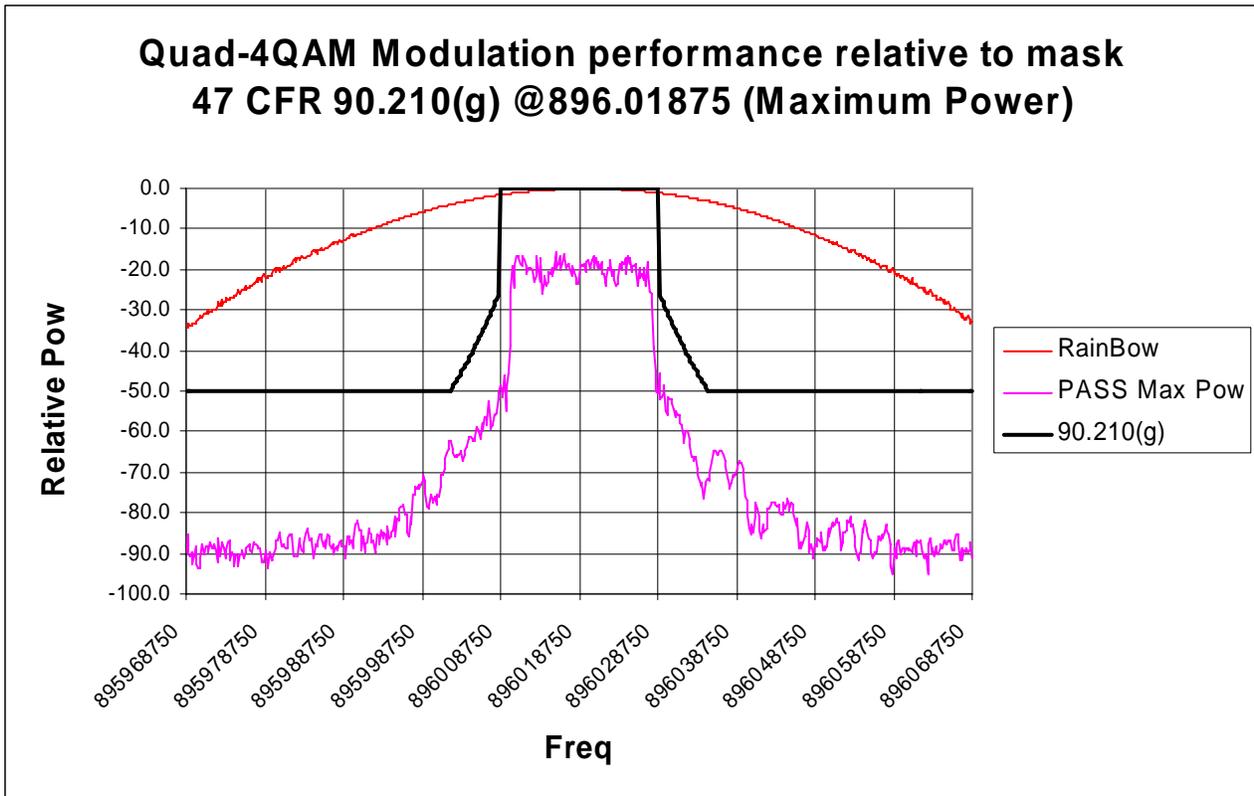


Figure 6a-2.8.1. WiDEN25 900 MHz Band, Quad-QPSK, Maximum Power, Emission Mask G

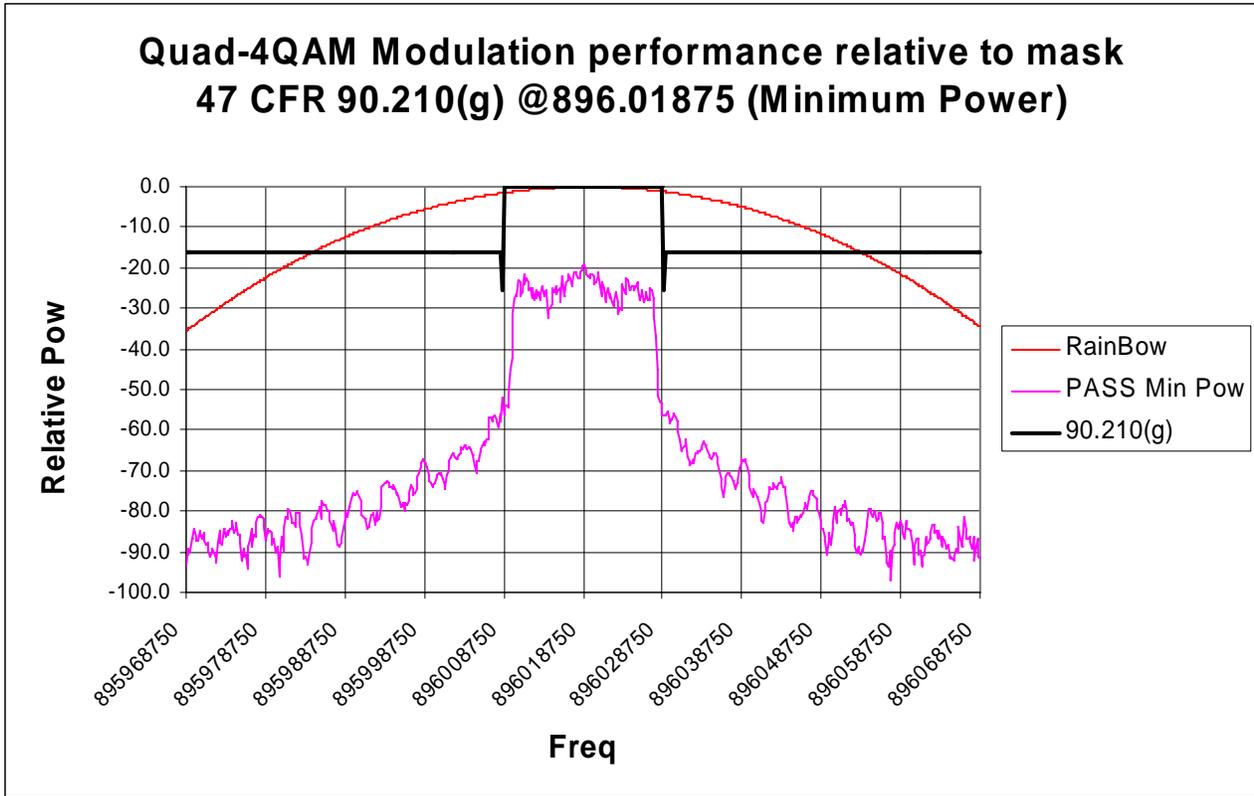


Figure 6a-2.8.2. WiDEN25 900 MHz Band, Quad-QPSK, Minimum Power, Emission Mask G

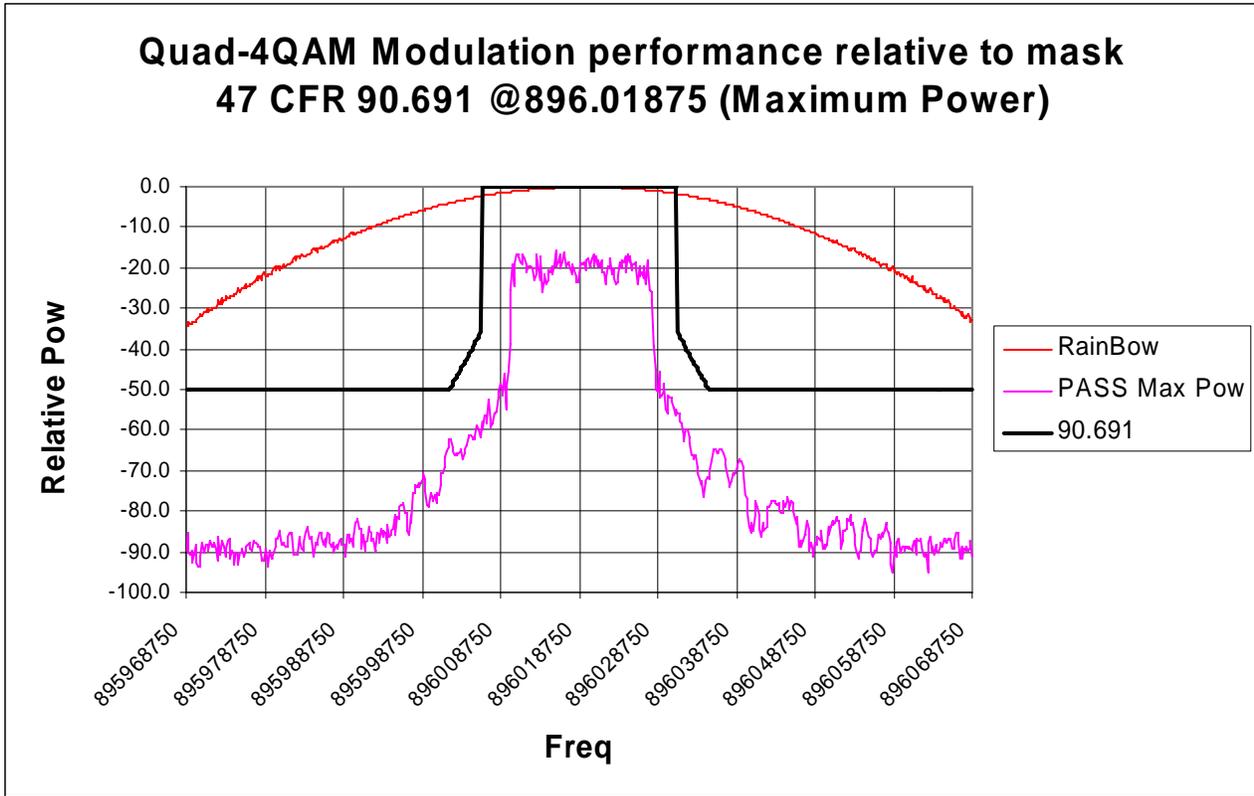


Figure 6a-2.8.3. WiDEN25 900 MHz Band, Quad-QPSK, Maximum Power, EA Emission Mask

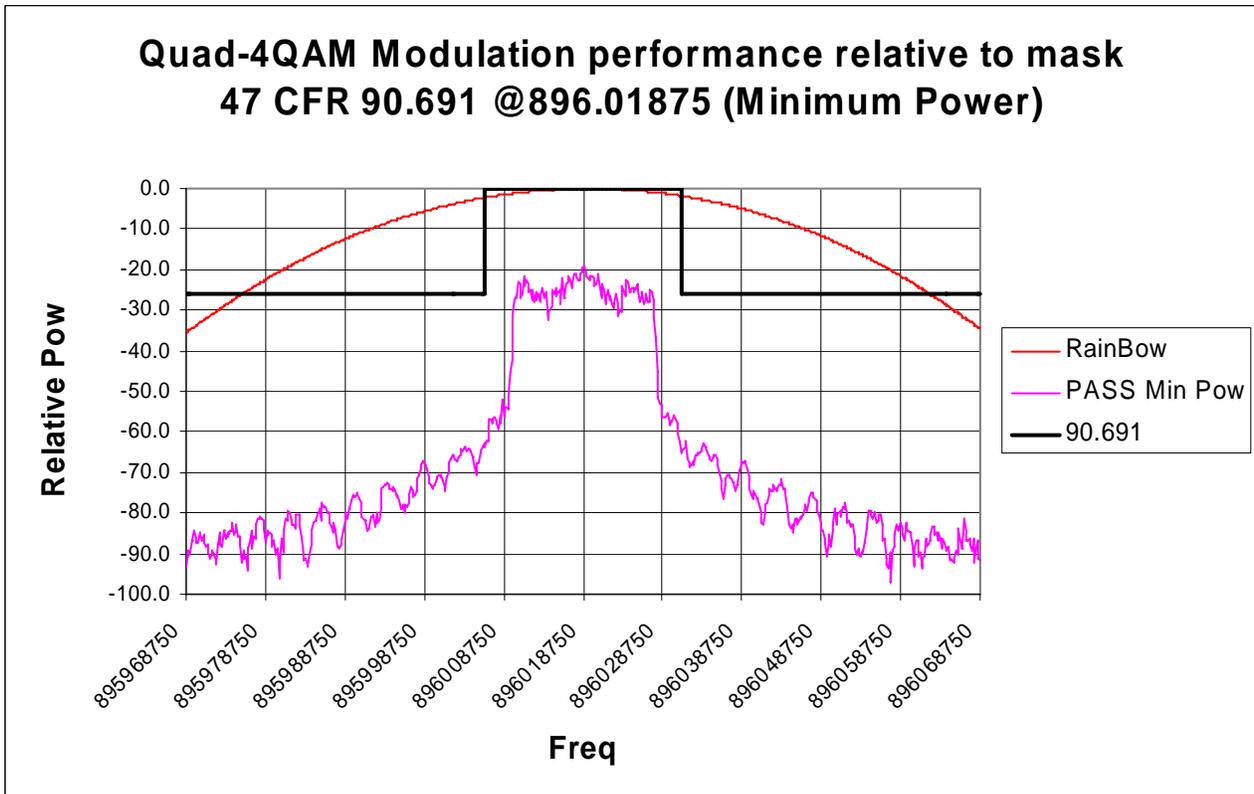


Figure 6a-2.8.4. WiDEN25 900 MHz Band, Quad-QPSK, Minimum Power, EA Emission Mask

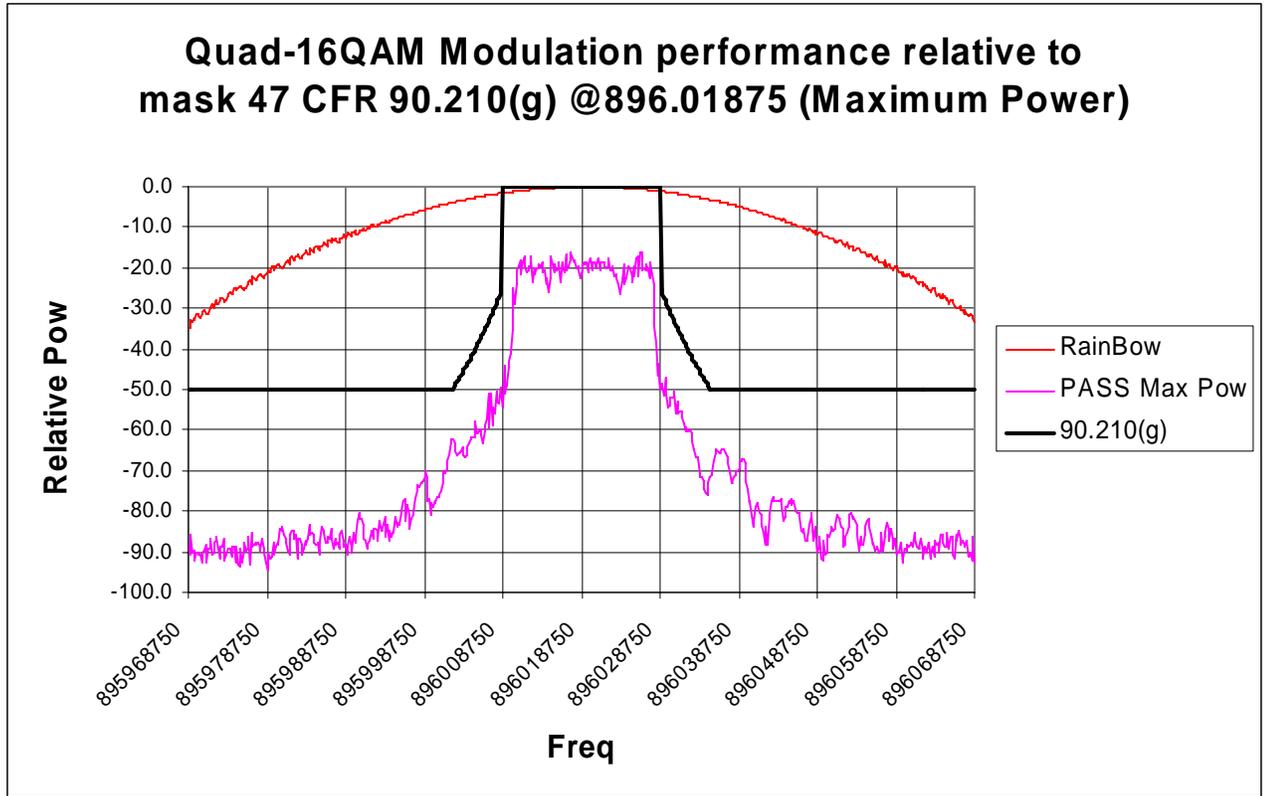


Figure 6a-2.8.5. WiDEN25 900 MHz Band, QAM16, Maximum Power, Emission Mask G

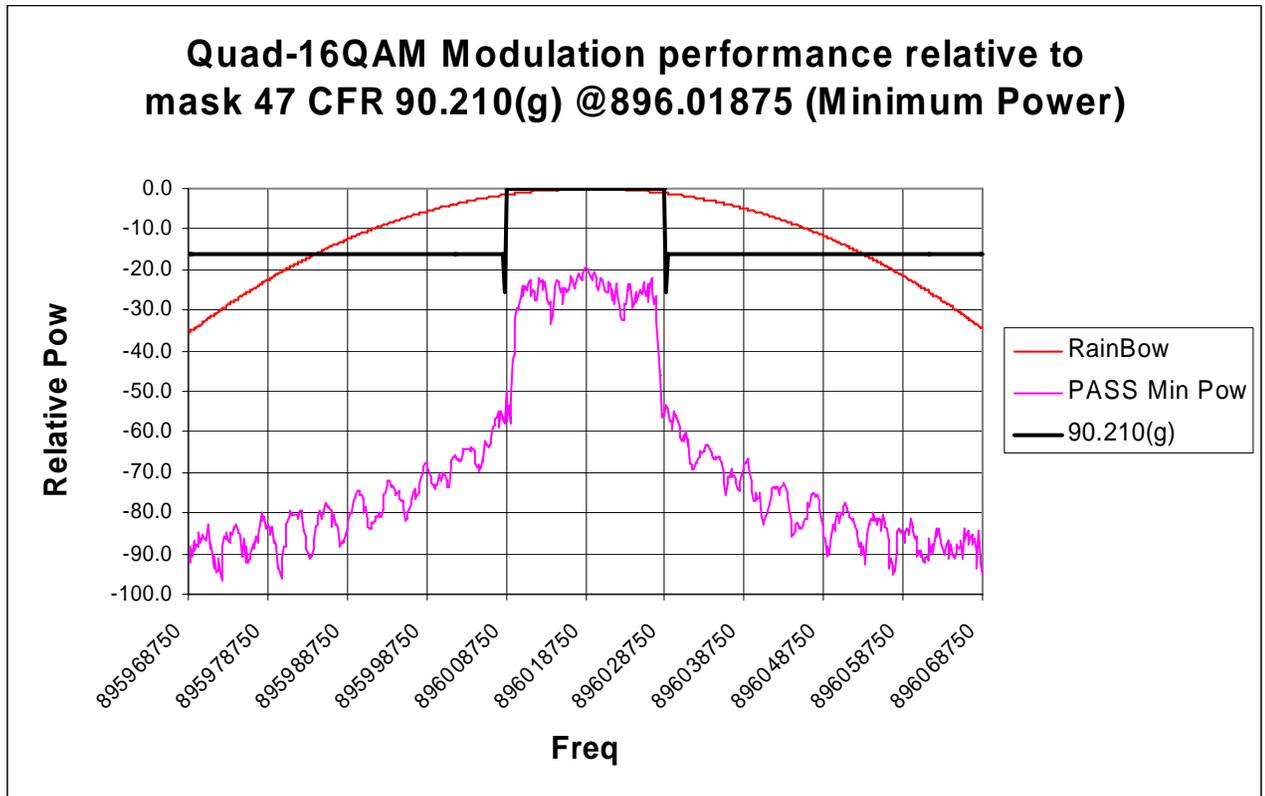


Figure 6a-2.8.6. WiDEN25 900 MHz Band, QAM16, Minimum Power, Emission Mask G

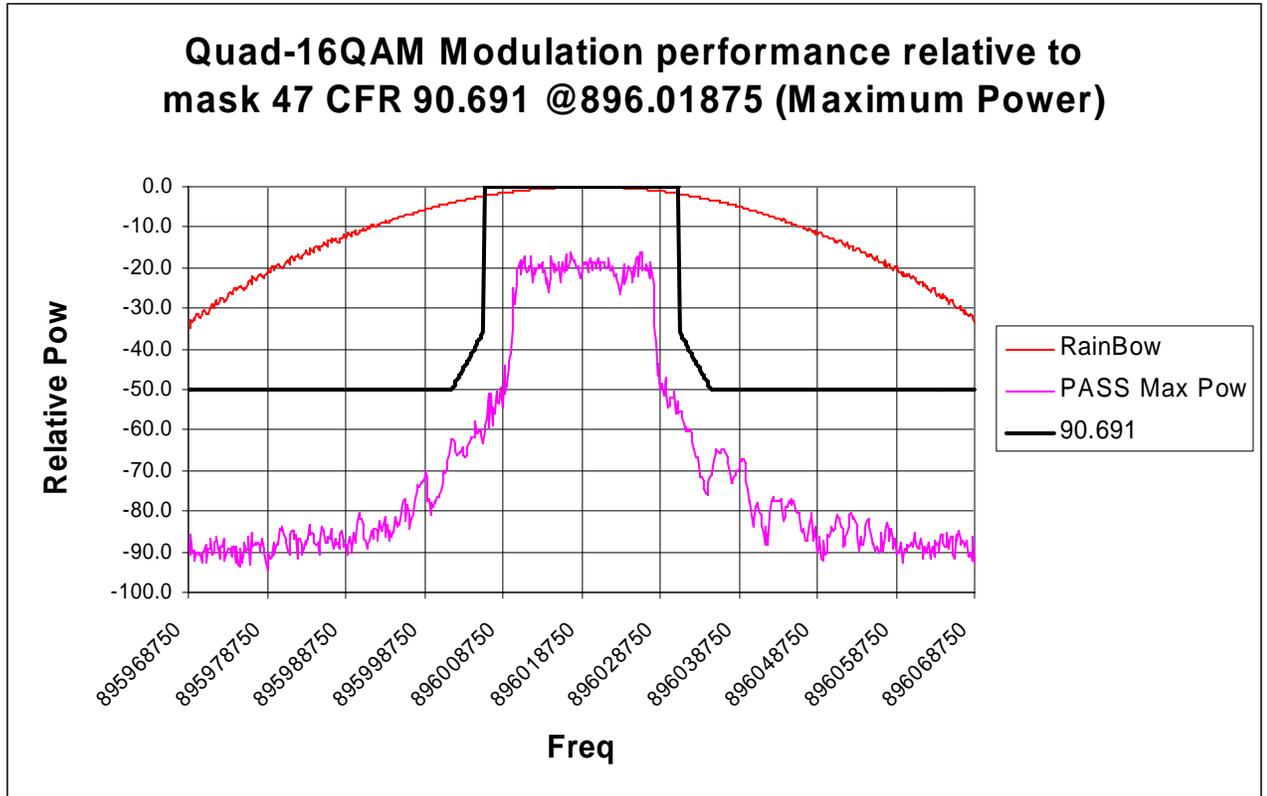


Figure 6a-2.8.7. WiDEN25 900 MHz Band, QAM16, Maximum Power, EA Emission Mask

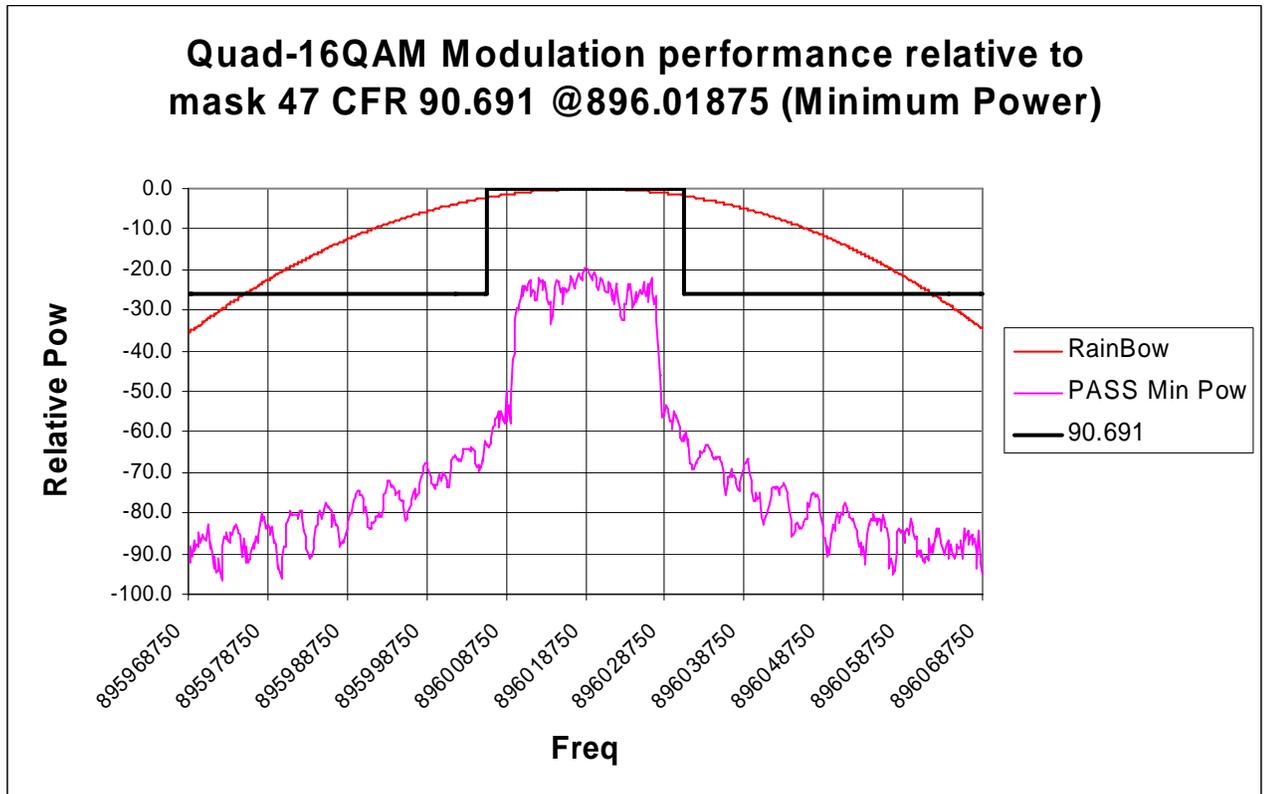


Figure 6a-2.8.8. WiDEN25 900 MHz Band, QAM16, Minimum Power, EA Emission Mask

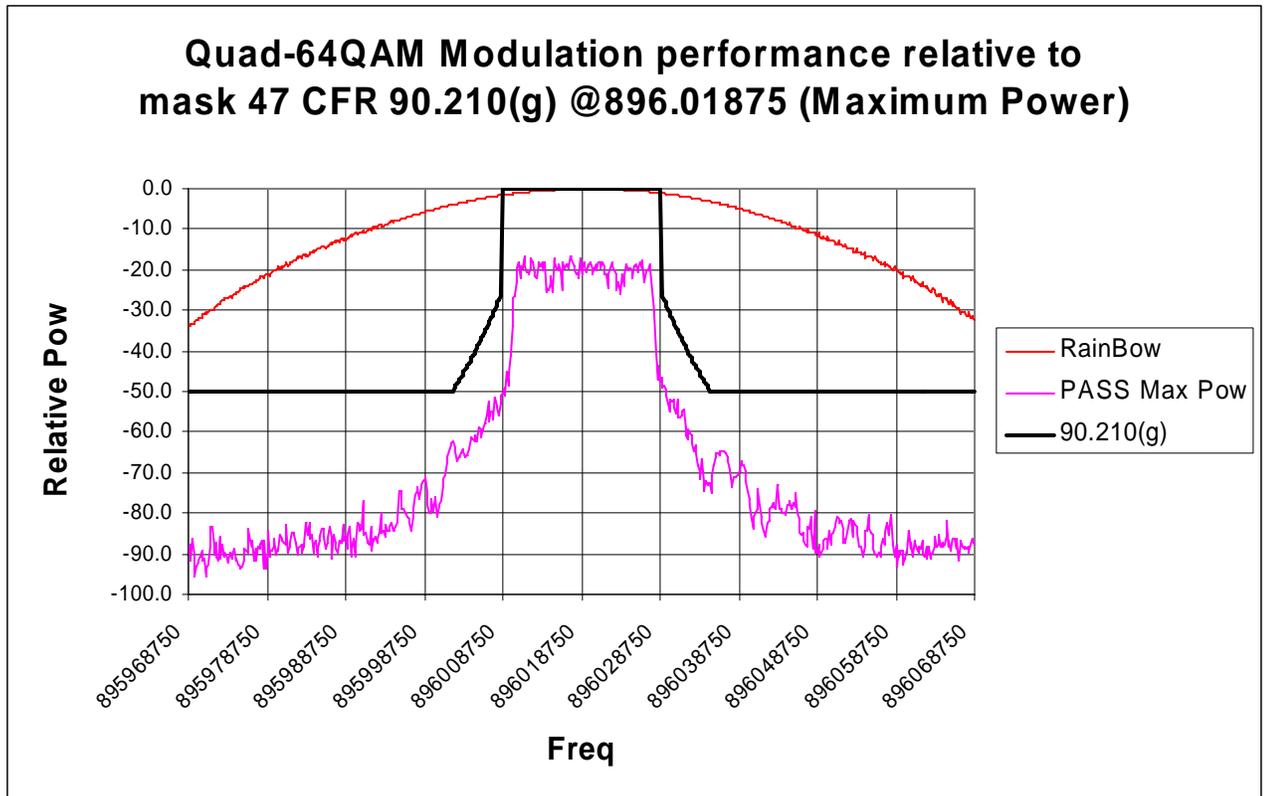


Figure 6a-2.8.9. WiDEN25 900 MHz Band, QAM64, Maximum Power, Emission Mask G

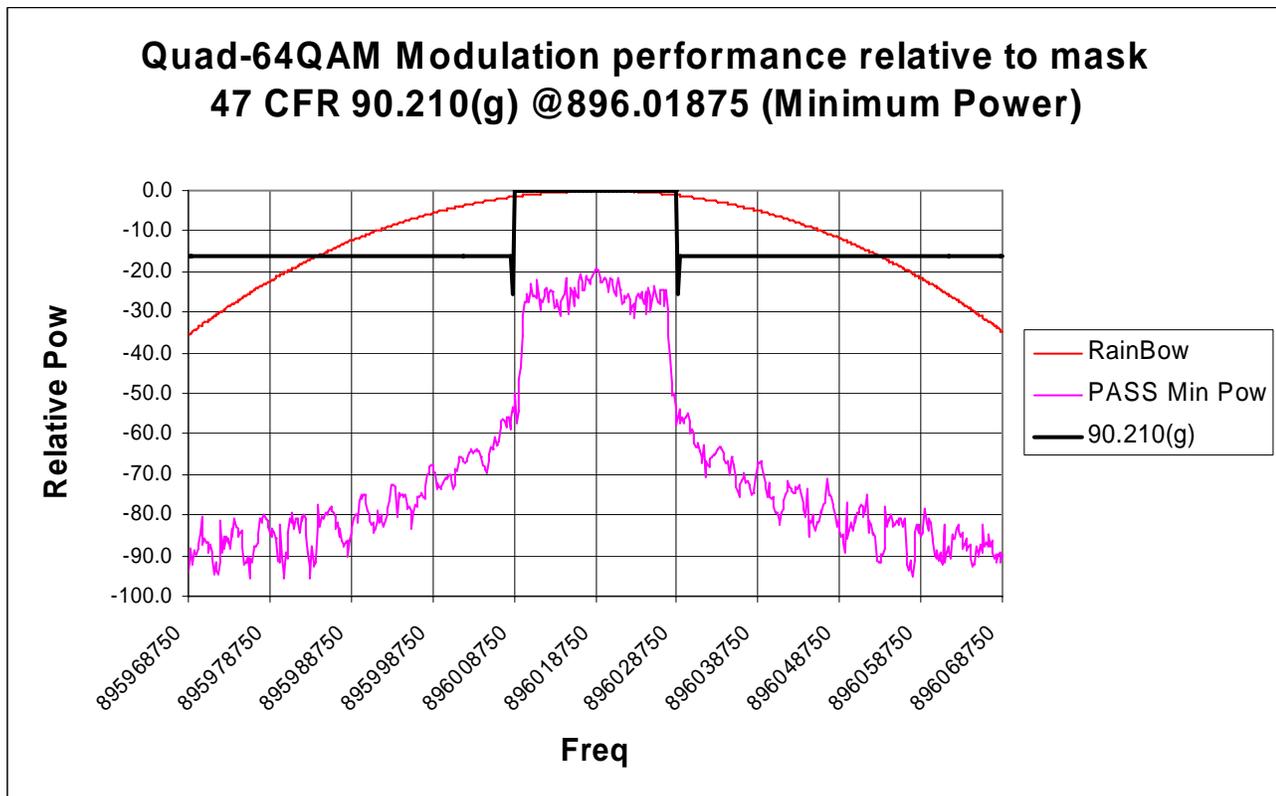


Figure 6a-2.8.10. WiDEN25 900 MHz Band, QAM64, Minimum Power, Emission Mask G

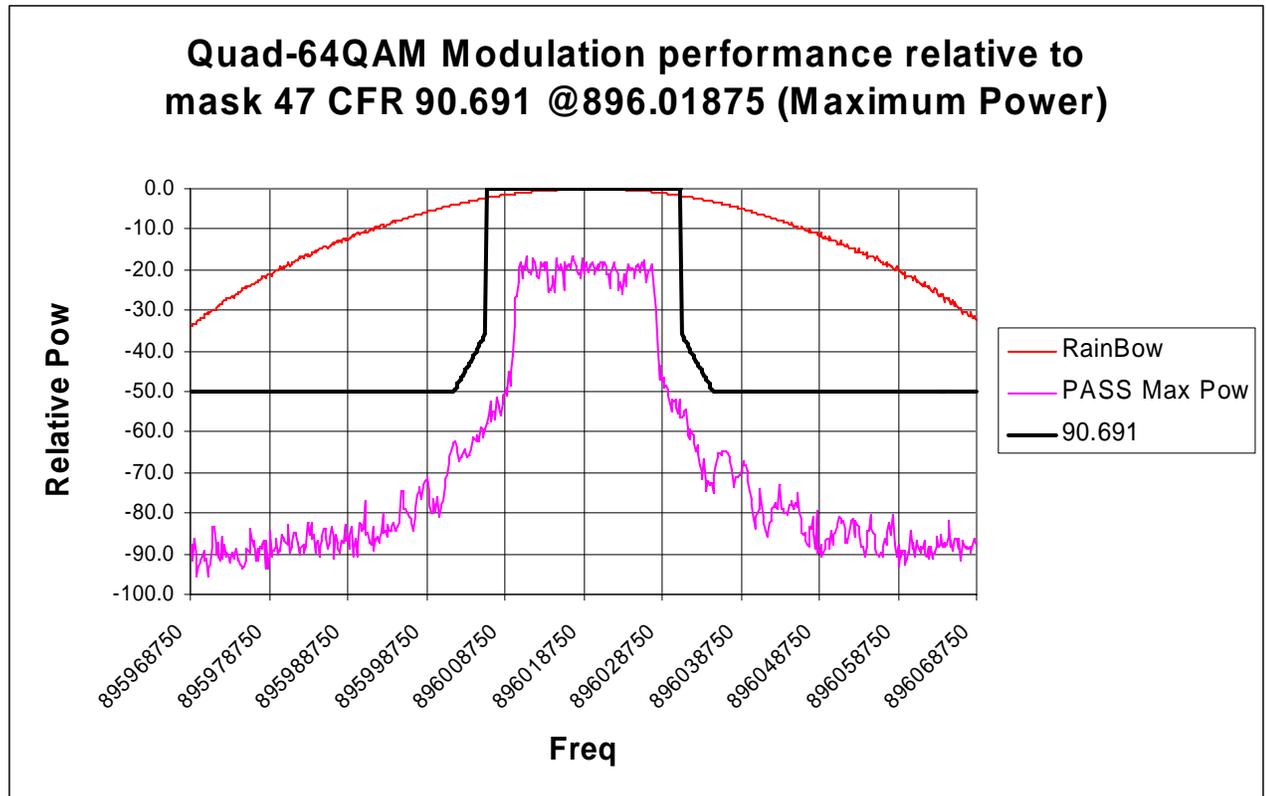


Figure 6a-2.8.11. WiDEN25 900 MHz Band, QAM64, Maximum Power, EA Emission Mask

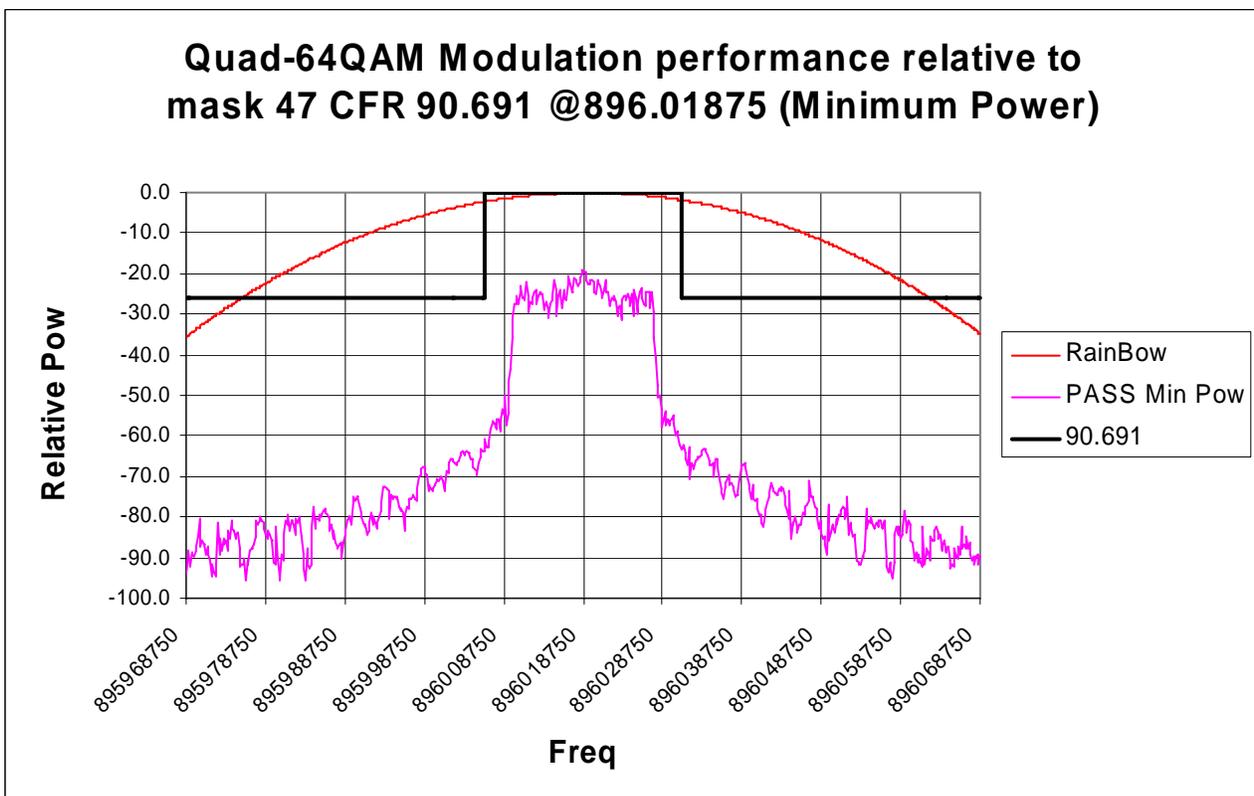


Figure 6a-2.8.12. WiDEN25 900 MHz Band, QAM64, Minimum Power, EA Emission Mask

### 6a.2.9 Emission Designator 43K3D7D - WiDEN50 900 MHz Band

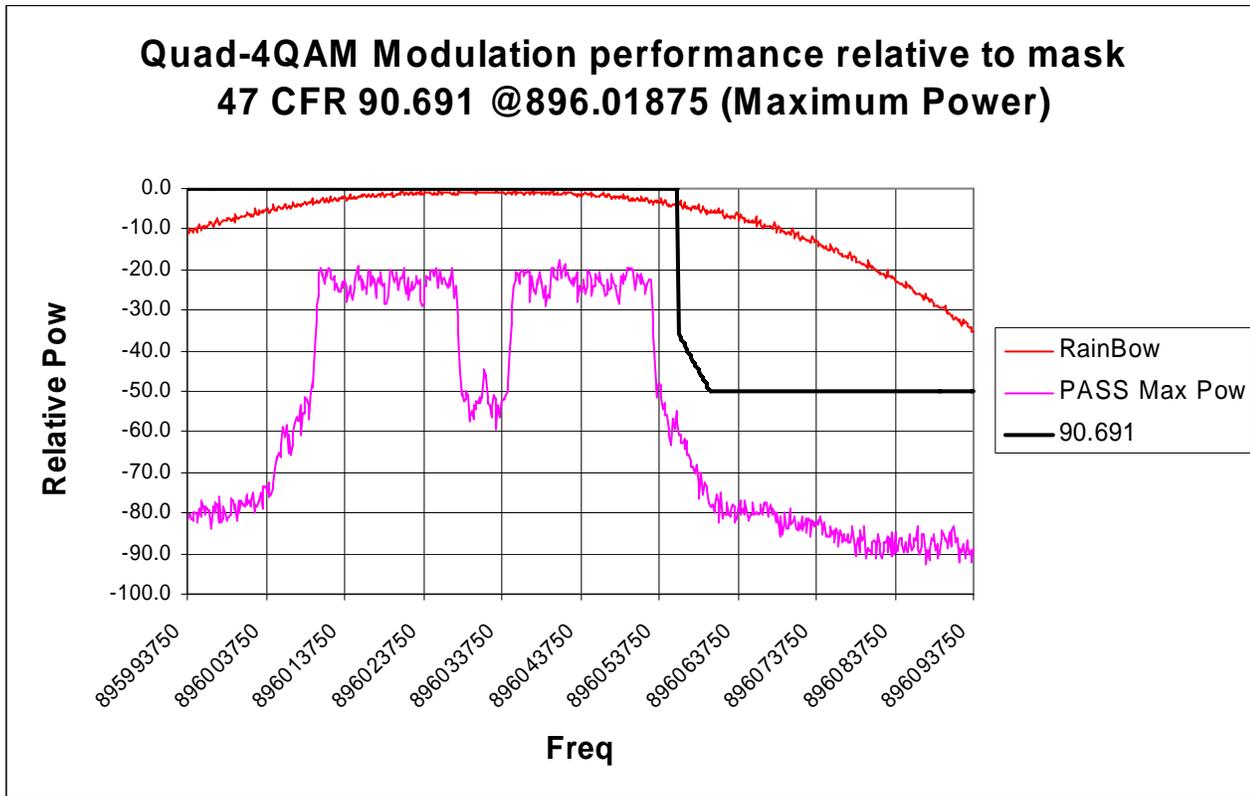


Figure 6a-2.9.1. WiDEN50 900 MHz Band, Continuous Quad-QPSK, Maximum Power, EA Emission Mask

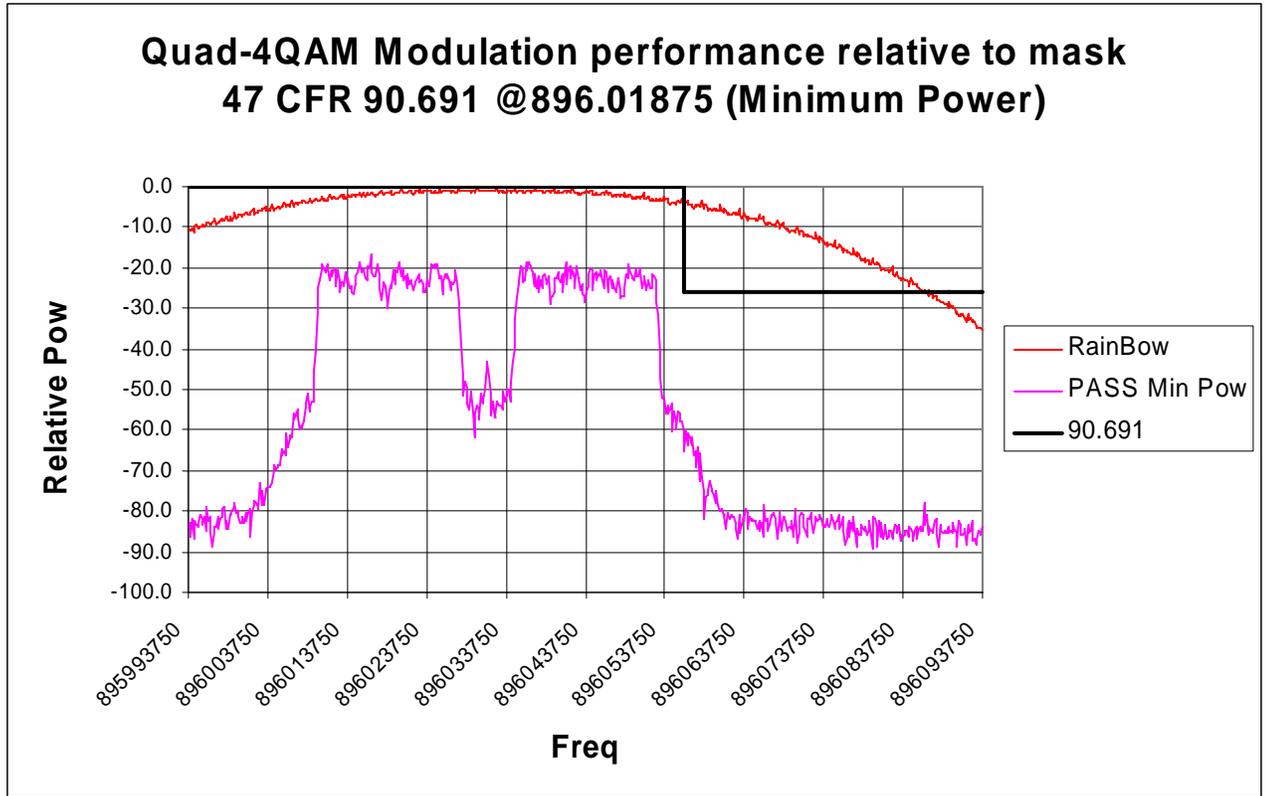


Figure 6a-2.9.2. WiDEN50 900 MHz Band, Continuous Quad-QPSK, Minimum Power, EA Emission Mask

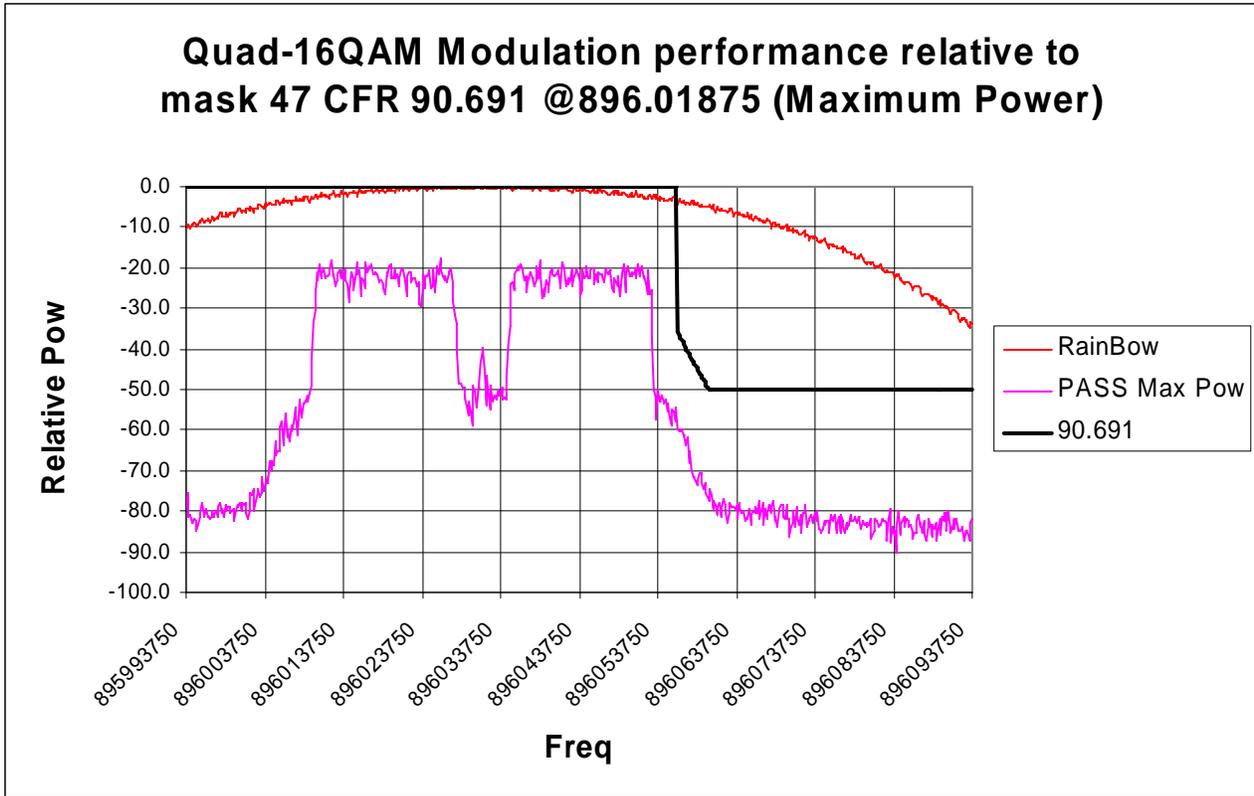


Figure 6a-2.9.3. WiDEN50 900MHz Band, Continuous QAM16, Maximum Power, EA Emission Mask

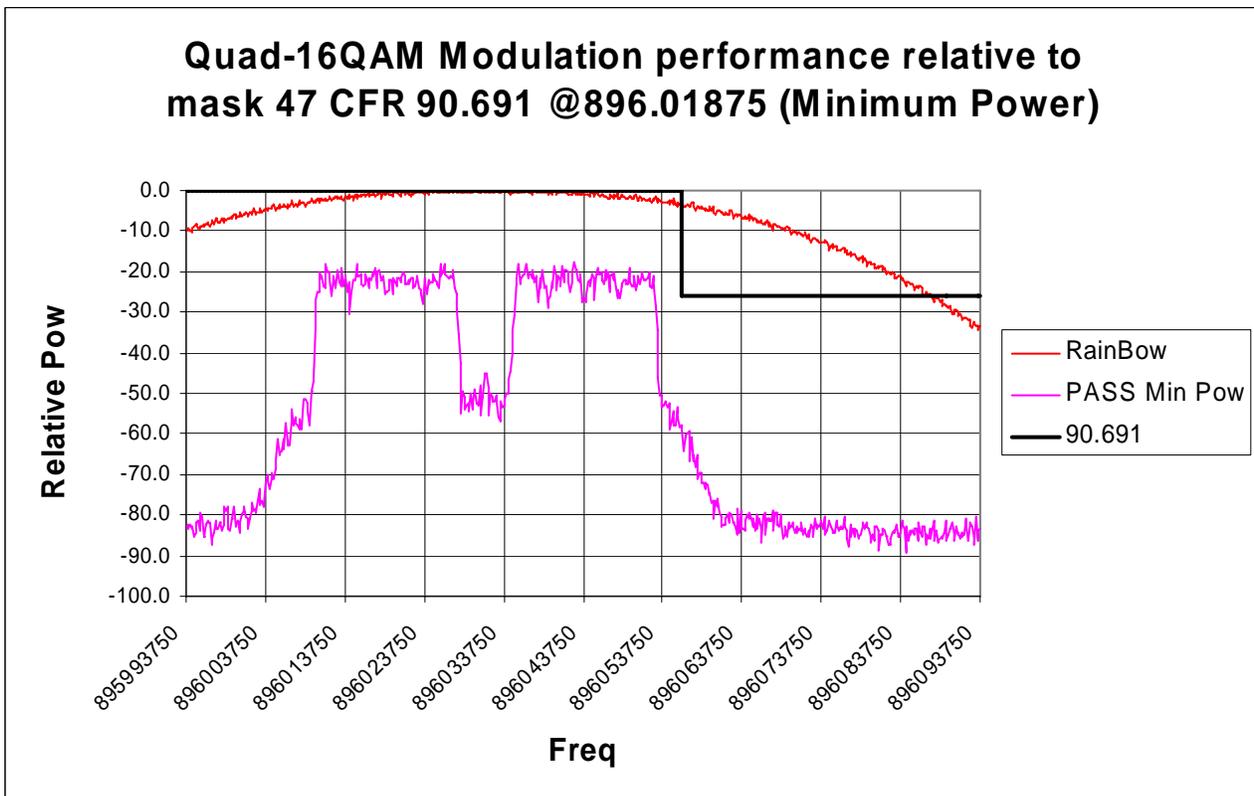


Figure 6a-2.9.4. WiDEN50 900 MHz Band, Continuous QAM16, Minimum Power, EA Emission Mask

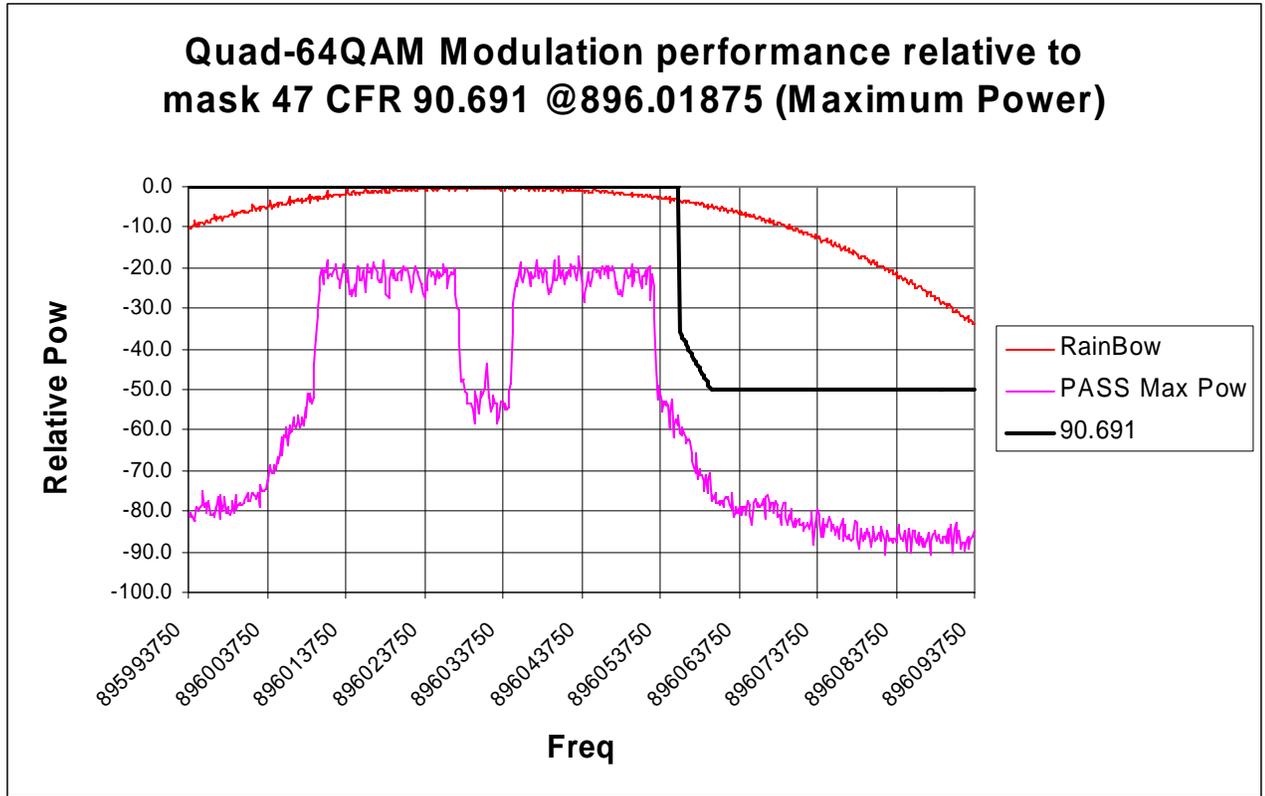


Figure 6a-2.9.5. WiDEN50 900 MHz Band, Continuous QAM64, Maximum Power, EA Emission Mask

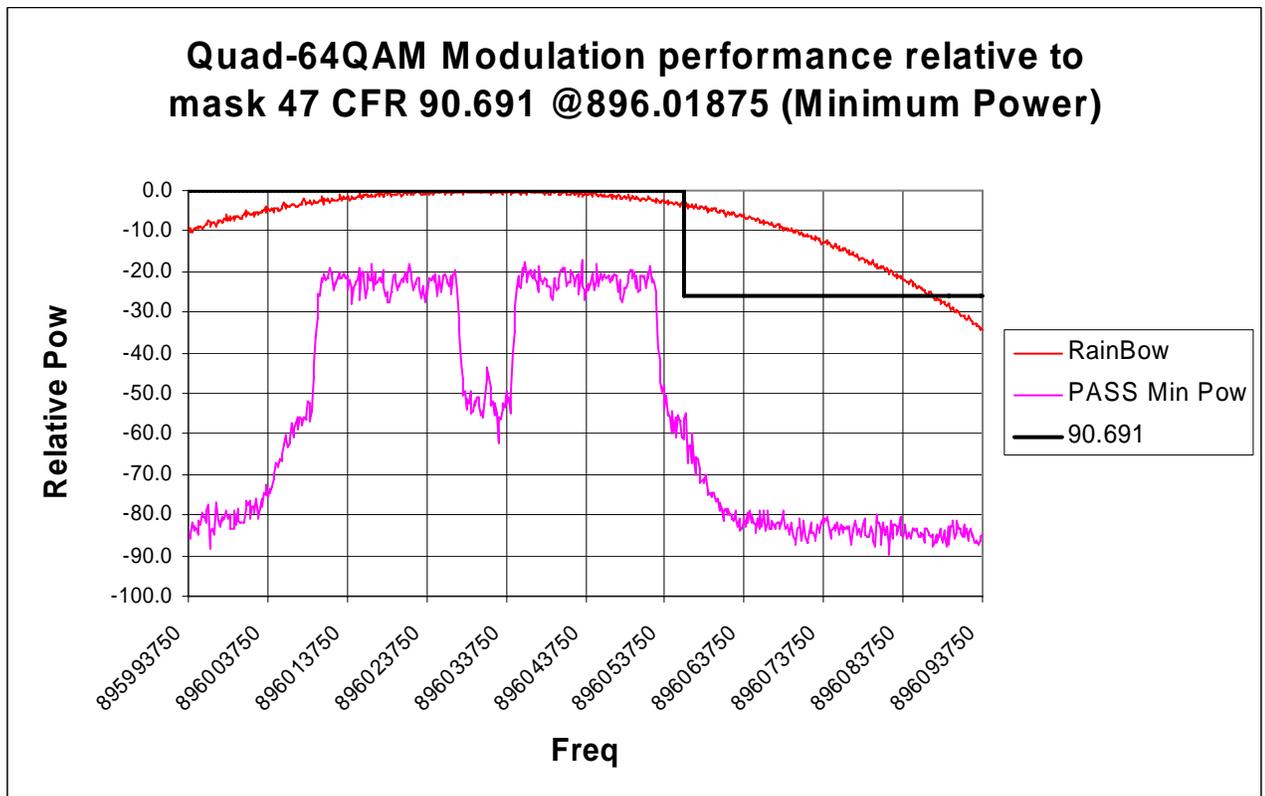


Figure 6a-2.9.6. WiDEN50 900 MHz Band, Continuous QAM64, Minimum Power, EA Emission Mask

### 6a.2.10 Emission Designator 68K3D7D - WiDEN75 900 MHz Band

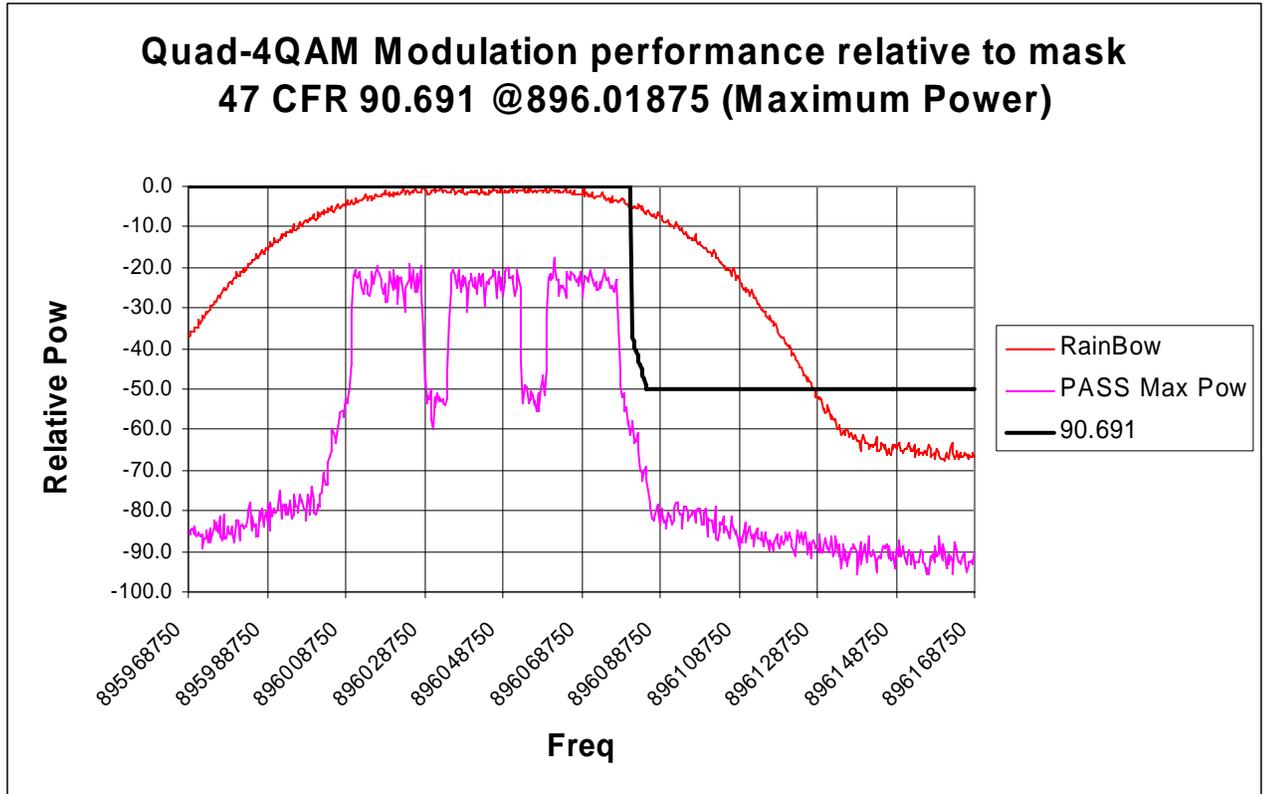


Figure 6a-2.10.1. WiDEN75 900 MHz Band, Quad-QPSK, Maximum Power, EA Emission Mask

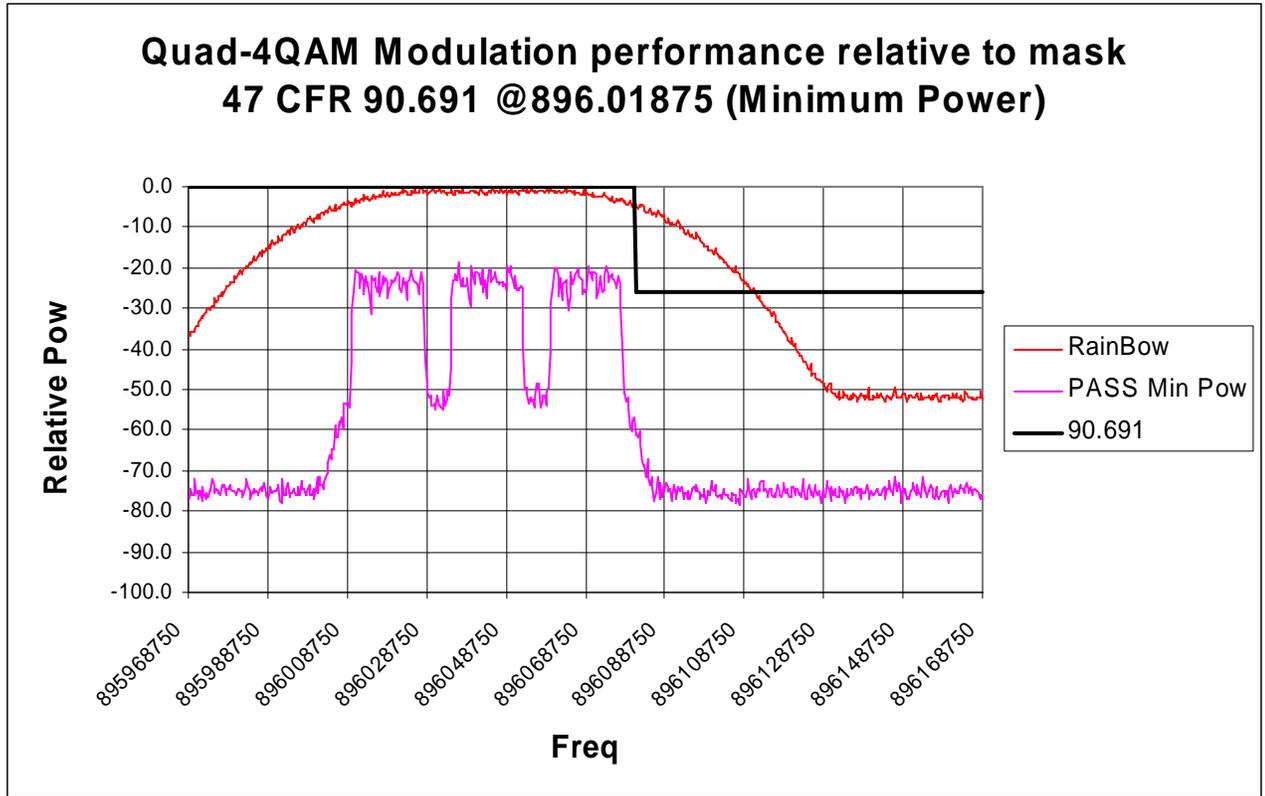


Figure 6a-2.10.2. WiDEN75 900 MHz Band, Quad-QPSK, Minimum Power, EA Emission Mask

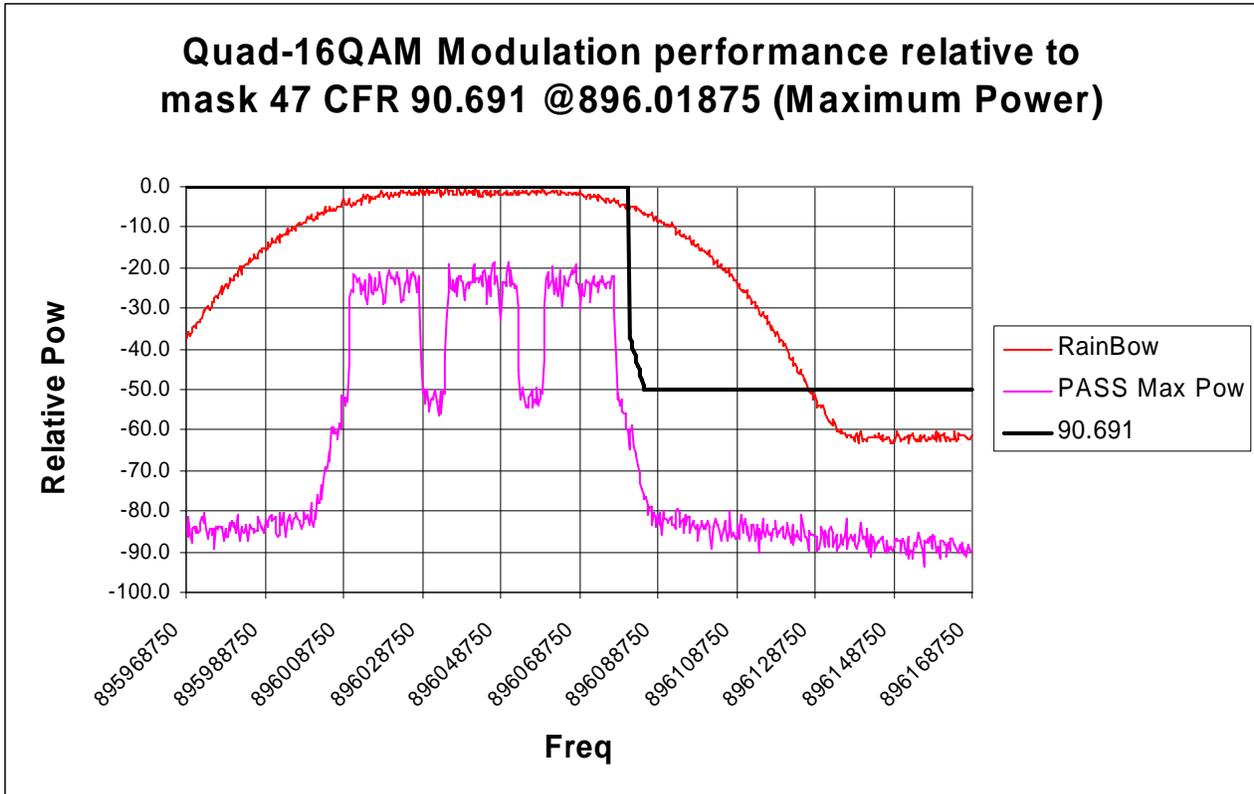


Figure 6a-2.10.3. WiDEN75 900 MHz Band, QAM16, Maximum Power, EA Emission Mask

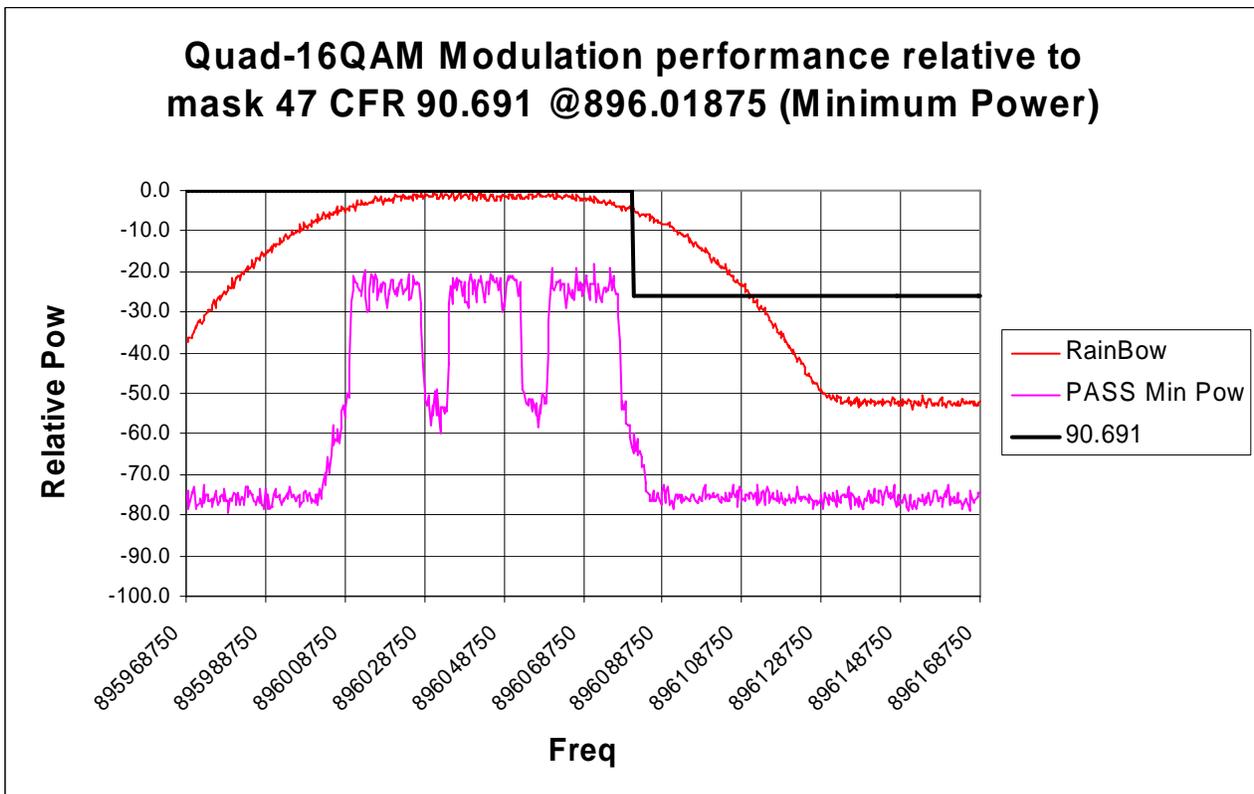


Figure 6a-2.10.4. WiDEN75 900 MHz Band, QAM16, Minimum Power, EA Emission Mask

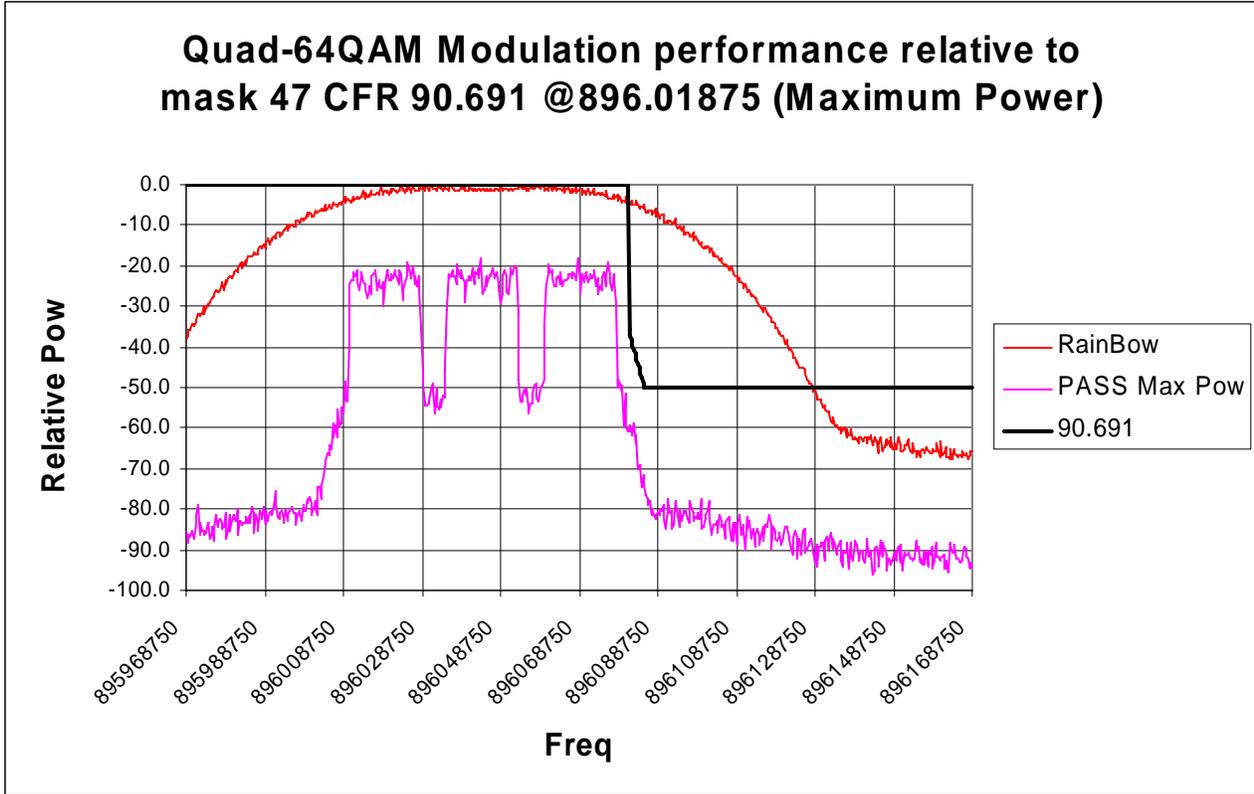


Figure 6a-2.10.5. WiDEN75 900 MHz Band, QAM64, Maximum Power, EA Emission Mask

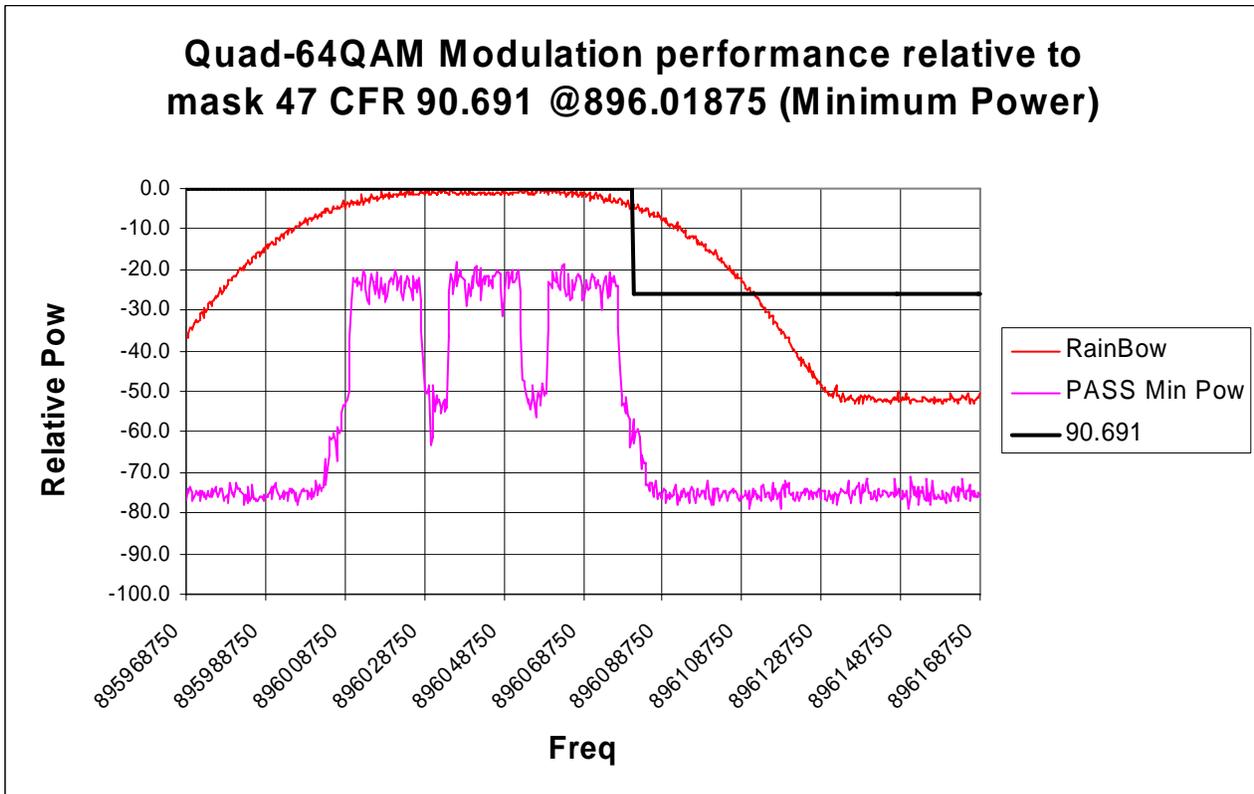
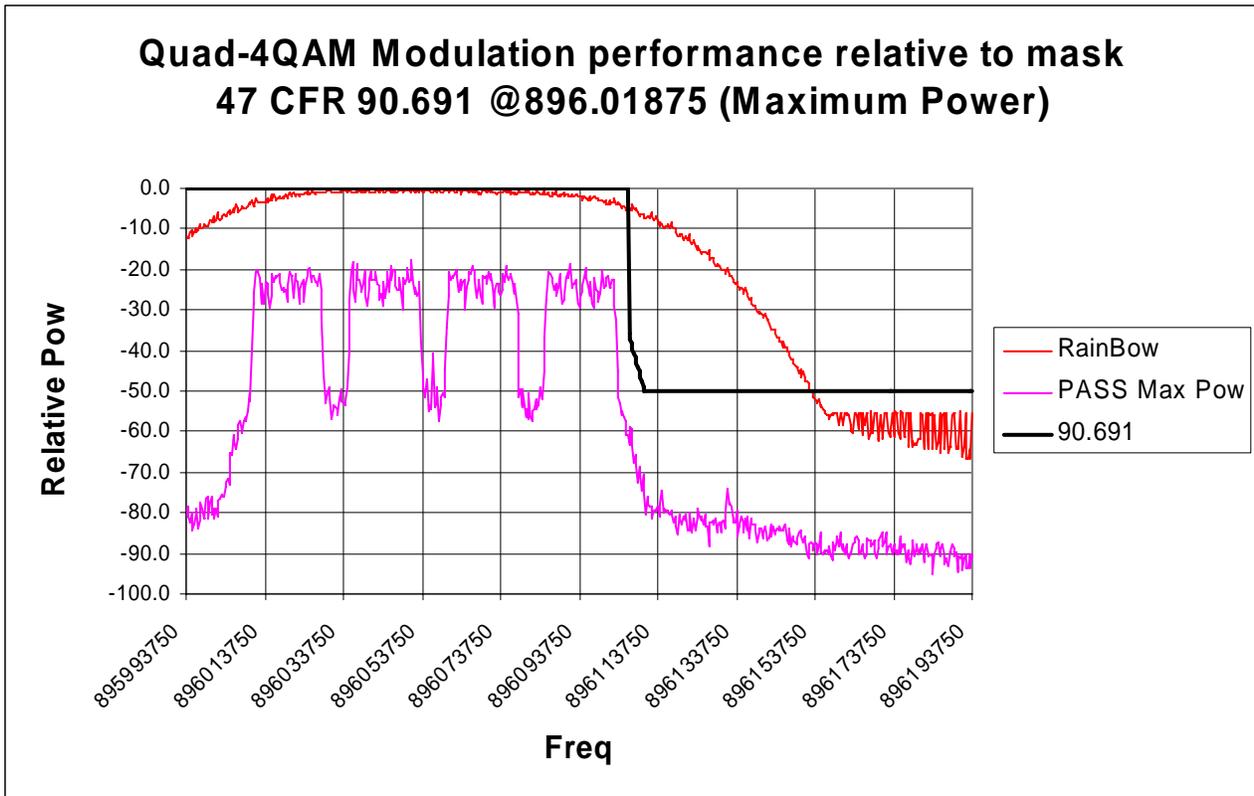


Figure 6a-2.10.6. WiDEN75 900 MHz Band, QAM64, Minimum Power, EA Emission Mask

### 6a.2.11 Emission Designator 93K3D7D - WiDEN100 900 MHz Band



**Figure 6a-2.11.1. WiDEN100 900 MHz Band, Quad-QPSK, Maximum Power, EA Emission Mask**

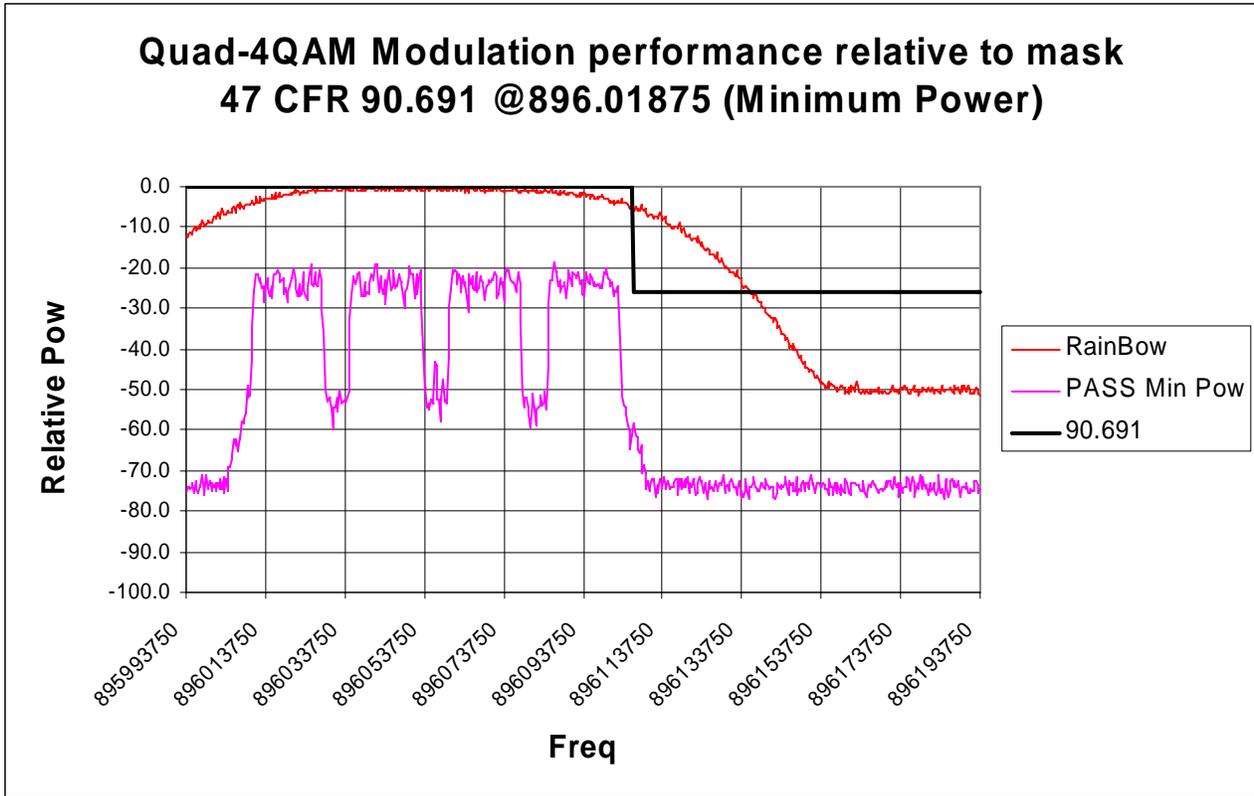


Figure 6a-2.11.2. WiDEN100 900 MHz Band, Quad-QPSK, Minimum Power, EA Emission Mask

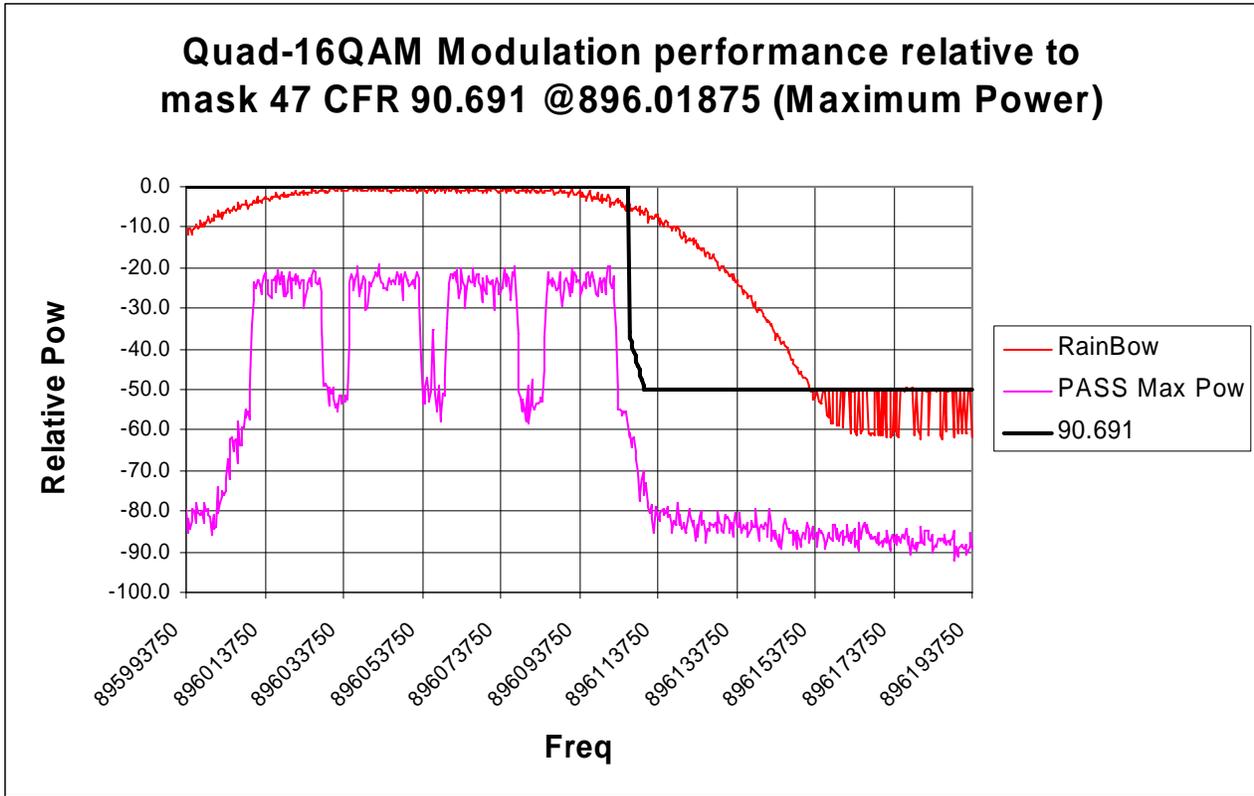


Figure 6a-2.11.3. WiDEN100 900 MHz Band, QAM16, Maximum Power, EA Emission Mask

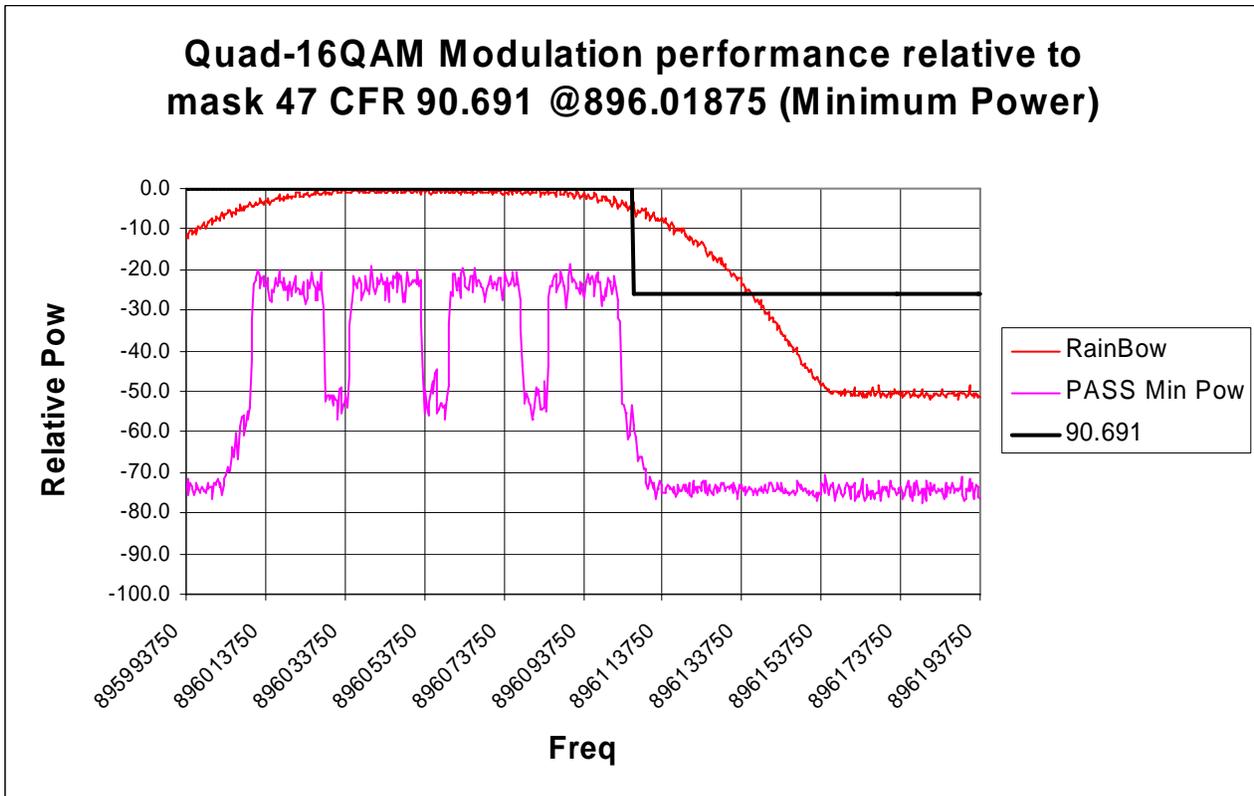


Figure 6a-2.11.4. WiDEN100 900 MHz Band, QAM16, Minimum Power, EA Emission Mask

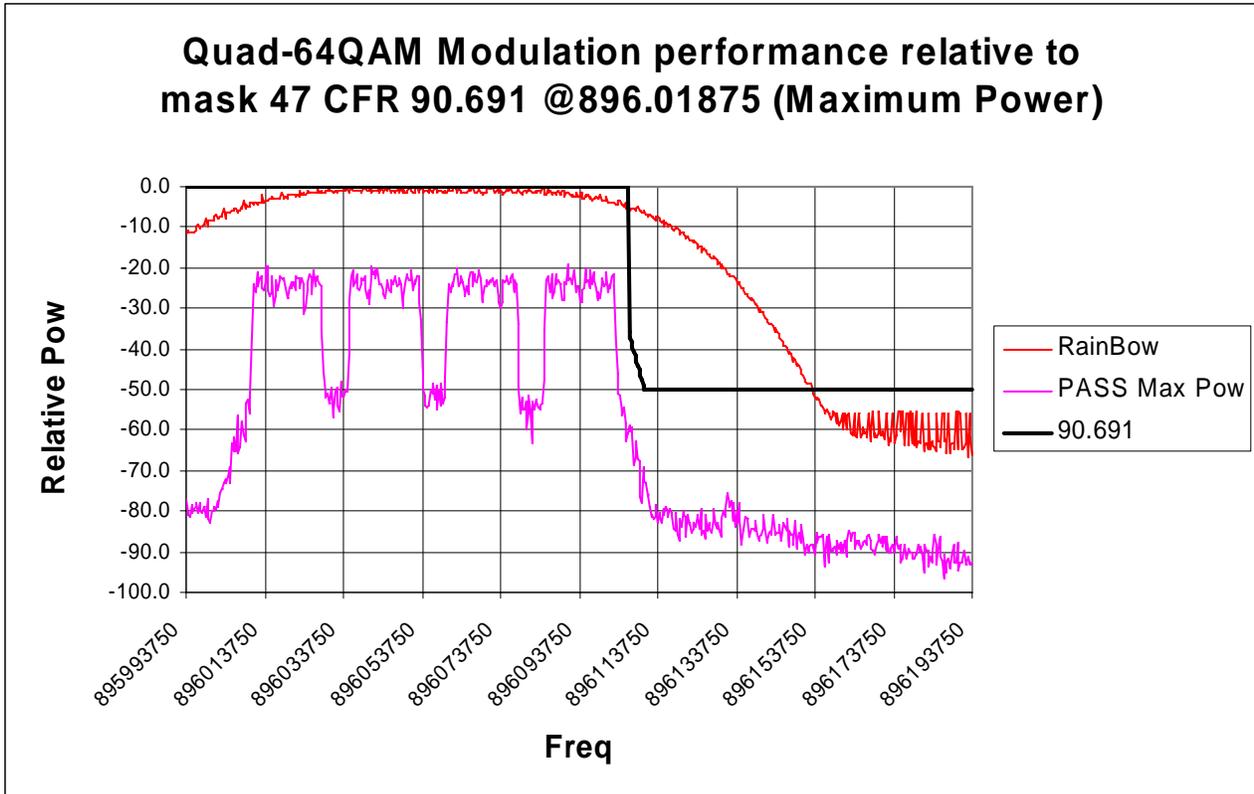


Figure 6a-2.11.5. WiDEN100 900 MHz Band, QAM64, Maximum Power, EA Emission Mask

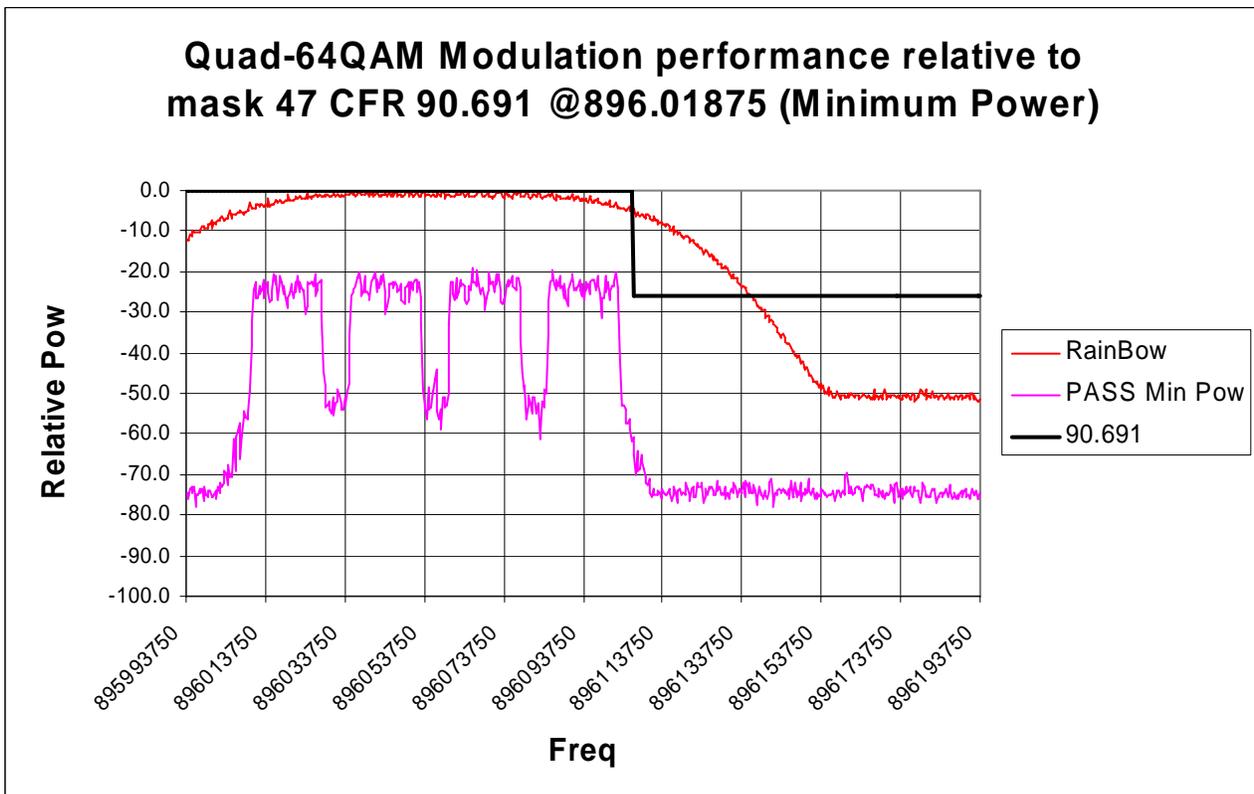


Figure 6a-2.11.6. WiDEN100 900 MHz Band, QAM64, Minimum Power, EA Emission Mask

### 6a.2.12 Emission Designator 93K3D7D - WiDEN50\_Split 900 MHz Band

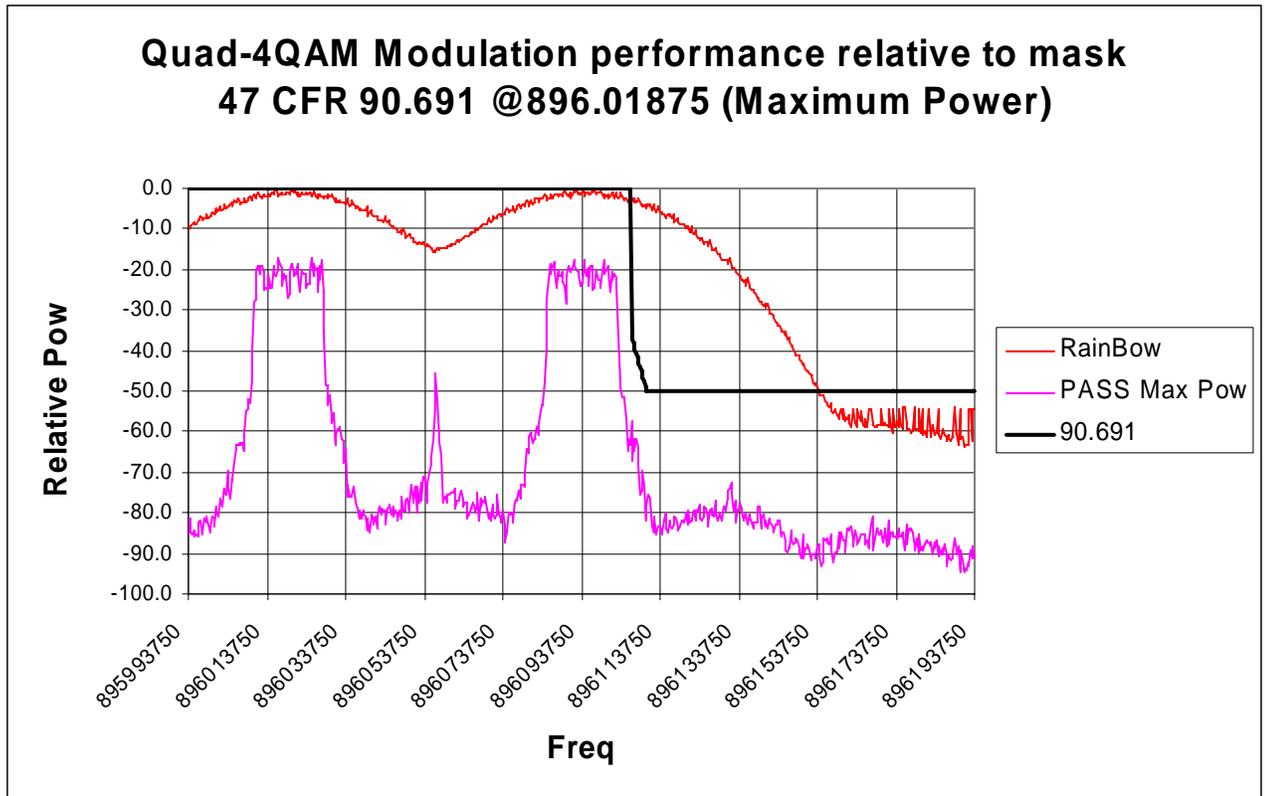
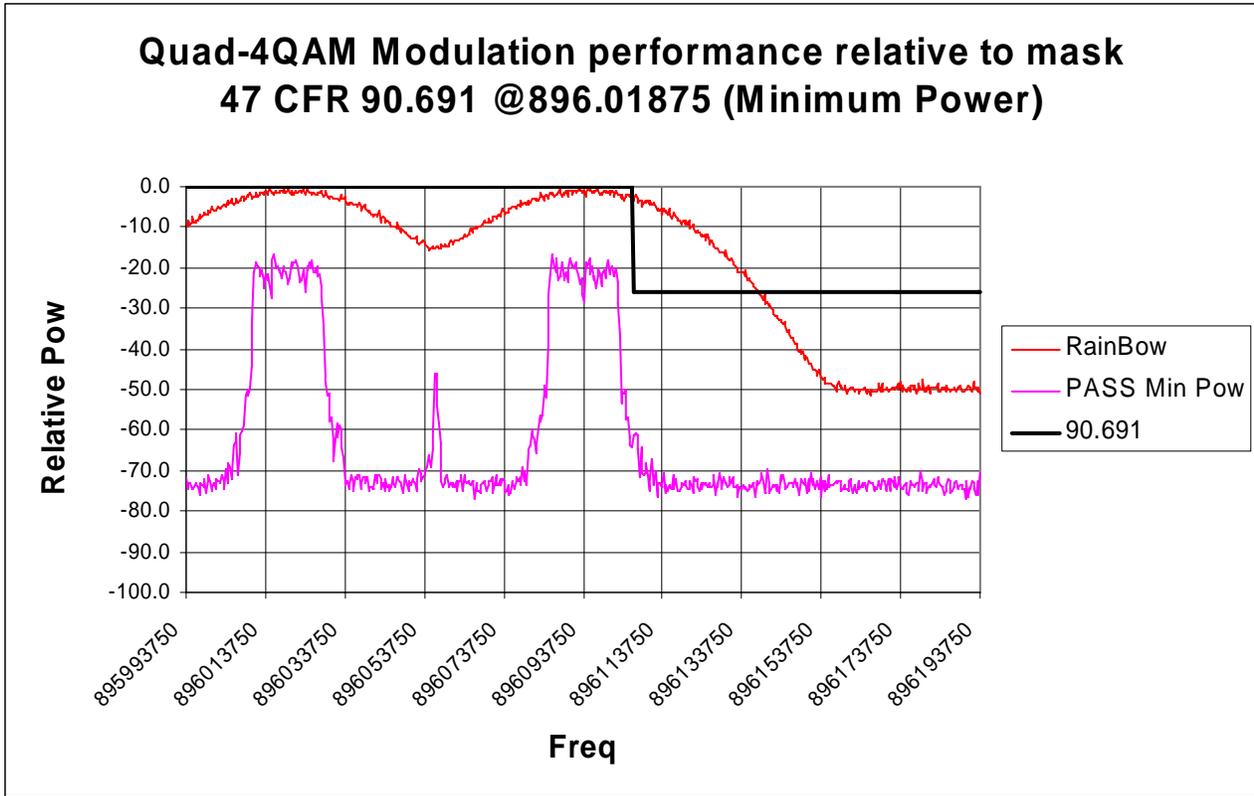


Figure 6a-2.12.1. WiDEN50 Split 900 MHz Band, Quad-QPSK, Maximum Power, EA Emission Mask



**Figure 6a-2.12.2. WiDEN50 Split 900 MHz Band, Quad-QPSK, Minimum Power, EA Emission Mask**

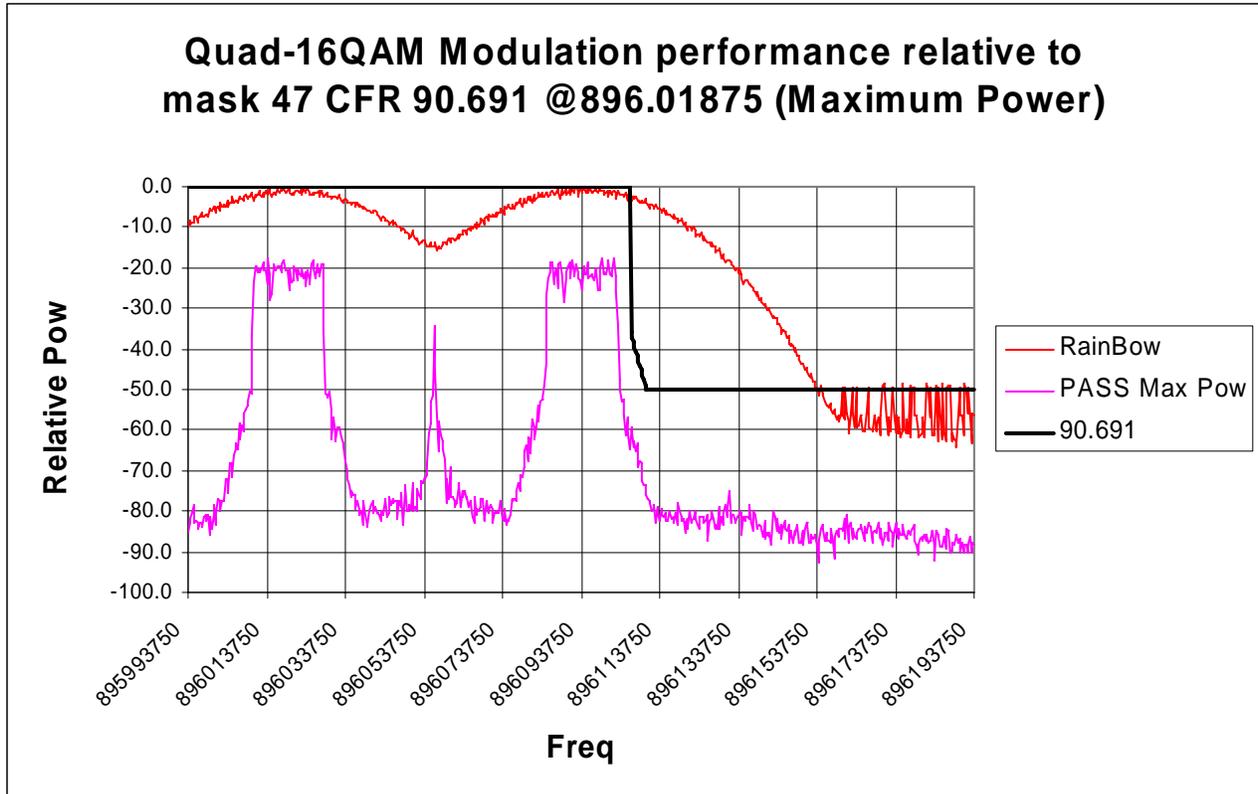


Figure 6a-2.12.3. WiDEN50 Split 900 MHz Band, QAM16, Maximum Power, EA Emission Mask

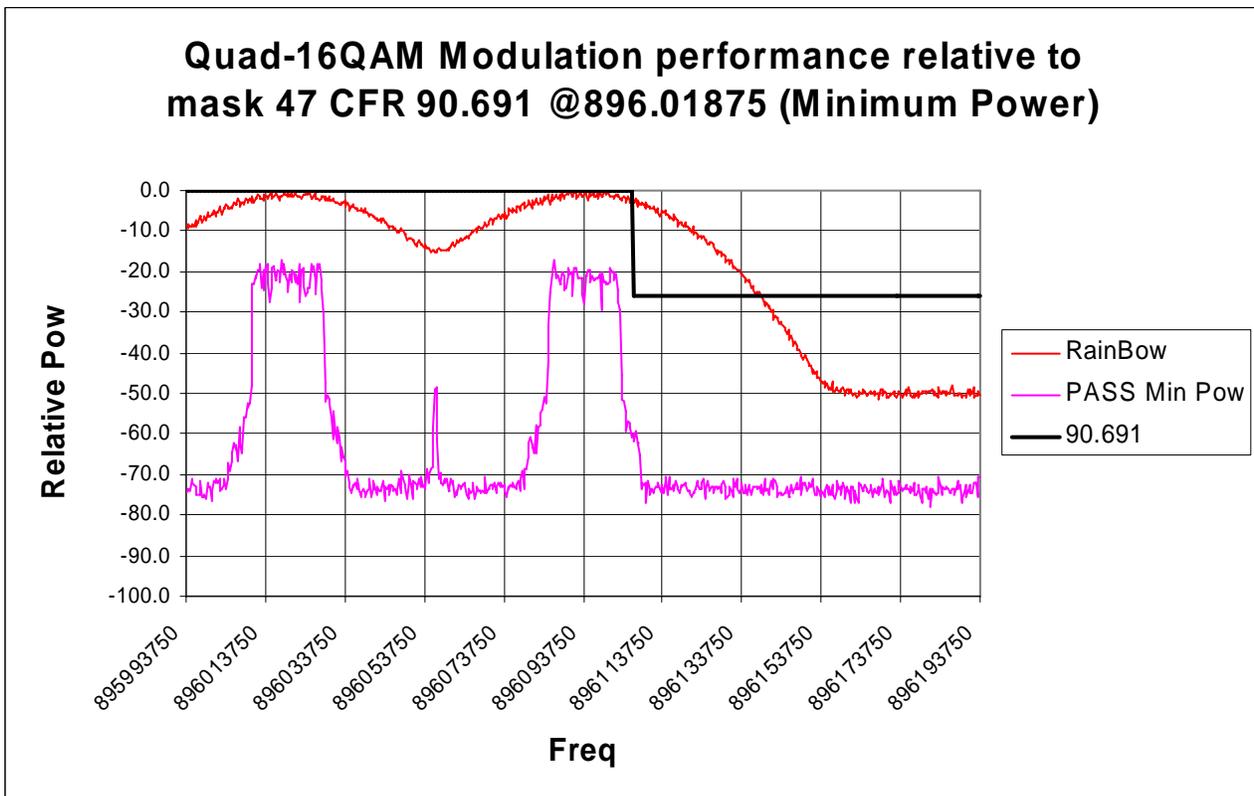


Figure 6a-2.12.4. WiDEN50 Split 900 MHz Band, QAM16, Minimum Power, EA Emission Mask

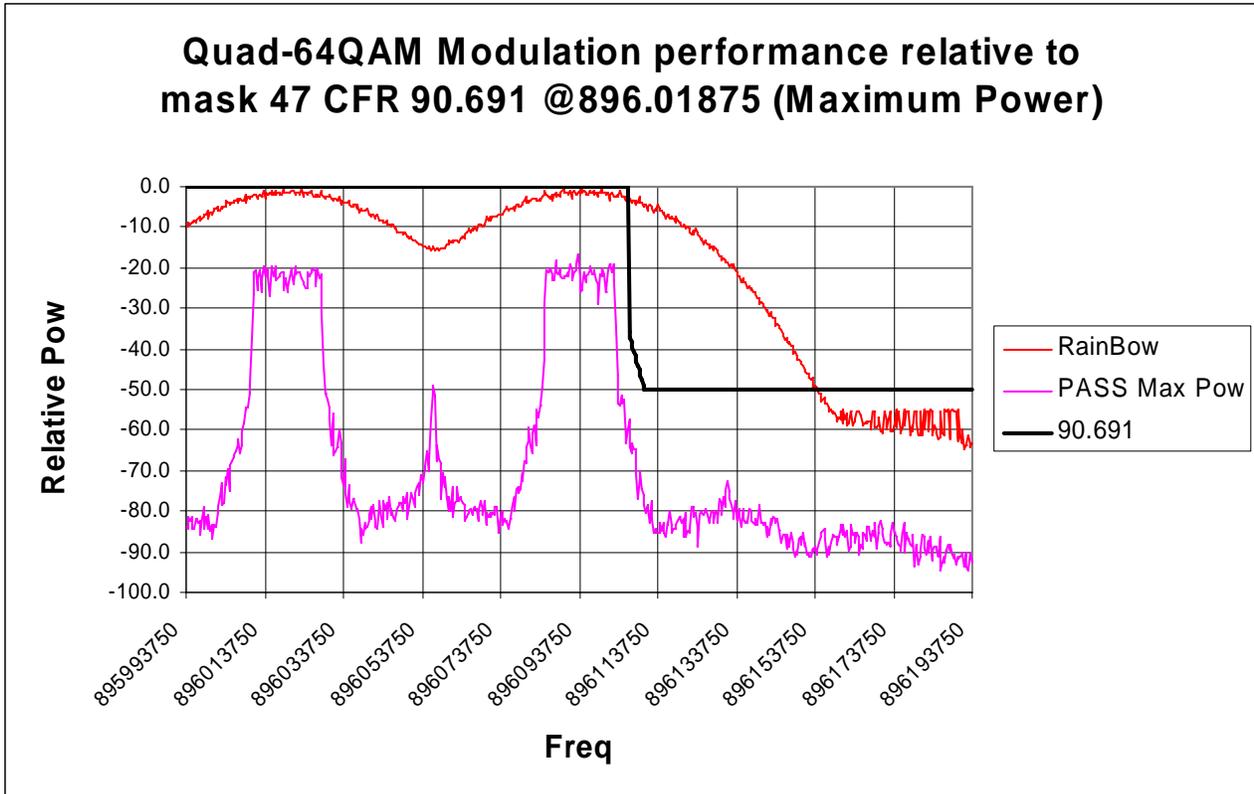


Figure 6a-2.12.5. WiDEN50 Split 900 MHz Band, QAM64, Maximum Power, EA Emission Mask

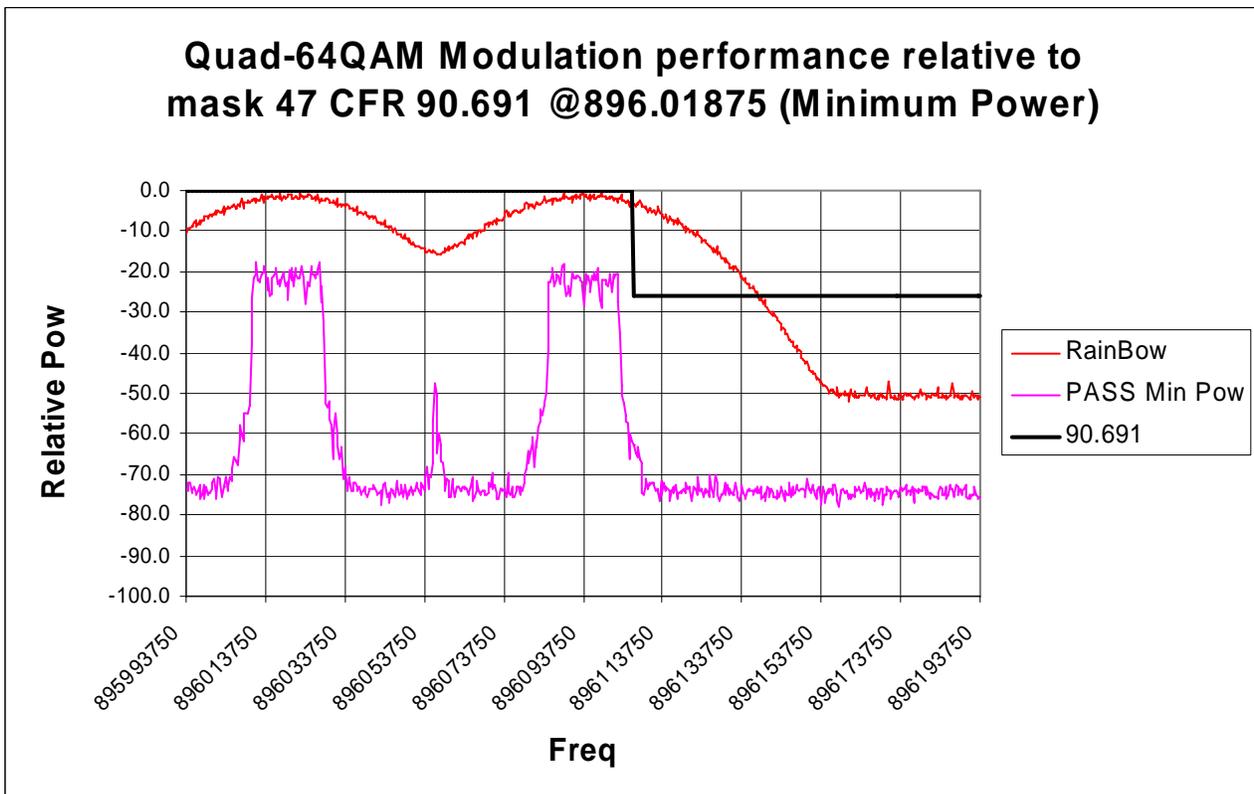


Figure 6a-2.12.6. WiDEN50 Split 900 MHz Band, QAM64, Minimum Power, EA Emission Mask

**6a-2.13 Measuring Equipment**

1. PSA: Agilent E4440A Date cal: 09-Jan-08 Due cal: 09-Jan-09

### 6a.3 Land Mobile Frequency Stability -- Pursuant 47 CFR 2.1055(a)(1) and 2.1055(d)(2)

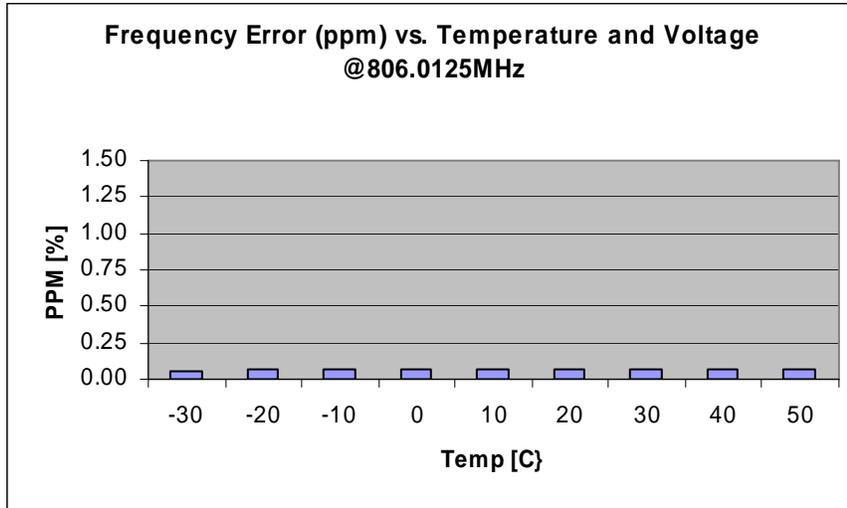
#### 6a.3.1 Frequency Stability Test Results

Frequency stability measurements were made as described in paragraph below. Because of the transmitter's dependence on the stability of the base station oscillator, it is not possible to provide stability data for this transmitter as is commonly supplied for certification per 47 CFR 2.1055 for a radio with a locally stabilized oscillator. The following data was collected in a setup comprising of a base station simulator and it represents the absolute frequency error of the transceiver under test versus the base station frequency reference.

Voltage change: Voltage was changed in increments of 0.1V throughout voltage range. There was no noticeable effect of the voltage change on the frequency error.

<b>Frequency Stability in PPM at 806.0125 MHz, Voltage = 7.1- 8.4V<sub>DC</sub></b>		
<b>TEMP</b>	<b>Measured Frequency (MHz)</b>	<b>Error PPM</b>
-30	806.012454122	0.06
-20	806.012441841	0.07
-10	806.012448298	0.06
0	806.012444205	0.07
10	806.012449191	0.06
20	806.012448386	0.06
30	806.012444171	0.07
40	806.012446059	0.07
50	806.012443880	0.07

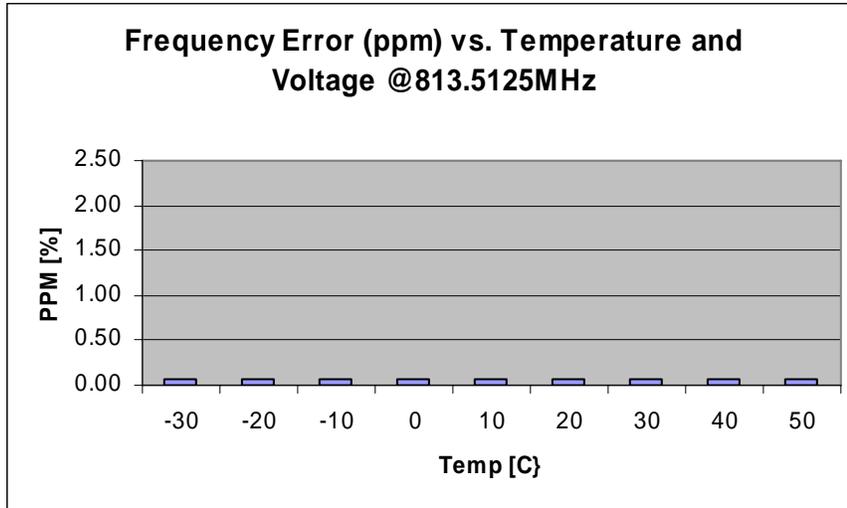
**Table 6a.3.1-1 Transmitter Frequency Stability vs. Temperature in 806-809 MHz MHz Band (table format)**



**Table 6a.3.1-2 Transmitter Frequency Stability vs. Temperature in 806-809 MHz MHz Band (chart format)**

Frequency Stability in PPM at 813.5125 MHz, Voltage = 7.1-8.4V <sub>DC</sub>		
TEMP	Measured Frequency (MHz)	Error PPM
-30	813.512449230	0.06
-20	813.512440746	0.07
-10	813.512449504	0.06
0	813.512442476	0.07
10	813.512445699	0.07
20	813.512443877	0.07
30	813.512442448	0.07
40	813.512447420	0.06
50	813.512439352	0.07

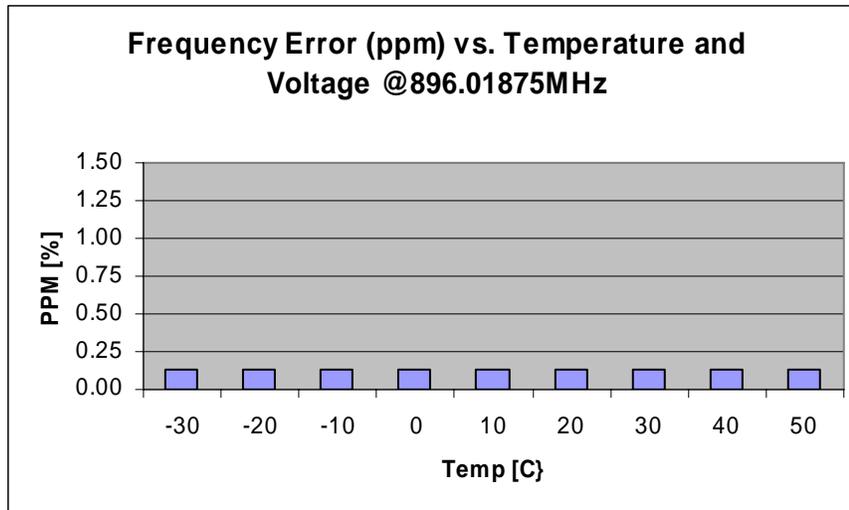
**Table 6a.3.1-3 Transmitter Frequency Stability vs. Temperature in 809-825MHz Band (table and formas)**



**Table 6a.3.1-4 Transmitter Frequency Stability vs. Temperature in 809-825MHz Band (chart format)**

Frequency Stability in PPM at 896.01875 MHz, Voltage = 7.1-8.4V <sub>DC</sub>		
TEMP	Measured Frequency (MHz)	Error PPM
-30	896.018637402	0.13
-20	896.018631559	0.13
-10	896.018633758	0.13
0	896.018637605	0.13
10	896.018636592	0.13
20	896.018636228	0.13
30	896.018634298	0.13
40	896.018631596	0.13
50	896.018632534	0.13

**Table 6a.3.1-5 Transmitter Frequency Stability vs. Temperature in 900 MHz Band (table format)**



**Table 6a.3.1-6 Transmitter Frequency Stability vs. Temperature in 900 MHz Band (table chart format)**

### 6a3.2 Frequency Stability -- Pursuant to 47 CFR 2.947(c) and 47 CFR 2.1055

Measuring the frequency accuracy of the iDEN time division multiplexed (TDM) transmitter needs special procedures for 3 reasons. First is the short (15 ms) nature of its TDM pulses, which preclude the use of an ordinary CW type digital frequency counter. Second, software in the radio prevents the radio from transmitting its TDM pulses unless it is receiving a signal on the trunking system control channel. Third, to maintain the very high stability (greater than that required by part 90 rules) needed for system operation, the radio transmitter frequency is controlled by an automatic frequency control loop in the radio's receiver which locks onto the system forward control channel produced by a compatible FCC certified part 90 base station. This process results in electronic adjustments of the synthesizer section of the radio, which is used for both transmission and reception.

As a result, unlike traditional transceivers which do not frequency lock to a remote base station reference frequency, the transmitter frequency accuracy is essentially independent of the voltage and temperature induced variations of the subject transceiver's frequency reference oscillator. Rather, the transceiver frequency stability is that of the remote base station, but degraded by any inaccuracy in the transceiver frequency locking process.

By locking onto a base station meeting the requirements of 47 CFR 90.213, which is necessary for the transceiver to function, the transceiver transmitter inherits the inherent 1.5 ppm or better stability of the compatible base station. To assure attainment of the frequency accuracy requirement of part 90.213 for this transceiver, the frequency error is measured when locked to a base station simulator.

The measurement was taken by placing the unit tested into a phone call to the Motorola R2660C. The iDEN 3:1 Call Test on the Motorola R2660C was controlled to facilitate the call.