

**EXHIBIT 6**

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**This exhibit contains the measured data for this equipment as follows:**

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22)
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- 6G-15- 48W, 450.025 MHz, 12.5 kHz Channel Spacing (APCO Digital Mode)
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**EXHIBIT 6H** – Frequency Stability

6H-1 – 450.0250 MHz vs. Temperature  
6H-2 – 450.0250 MHz vs. Supply Voltage

**EXHIBIT 6I** – Transient Frequency Behavior

6J-1 – 450.0250 MHz, 12.5 kHz Channel Spacing – Transmitter On  
6J-2 – 450.0250 MHz, 12.5 kHz Channel Spacing – Transmitter Off  
6J-3 – 450.0250 MHz, 25 kHz Channel Spacing – Transmitter On (For FCC rule part 74)  
6J-4 – 450.0250 MHz, 25 kHz Channel Spacing – Transmitter Off (For FCC rule part 74)

**\*\* Please note that the above data were taken following the procedures and limits outlined in TIA 603-D and RSS 119 during the month of March 2013. See Table 2 in Ex07\_test\_procedures**

**Radio model tested: M22QSS9PW1AN**

**Important Note: The data in this test report meets or exceeds the technical requirements of FCC Rule Parts 22, 74 and 90.**

**EXHIBIT 6A****RF Conducted Power Output Data**

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device.

**Frequency = 380.0125 MHz:**

Output RF power	48 Watts
DC Voltage	13.6 Volts
DC Current	8.04 Amps

**Frequency = 380.0125 MHz:**

Output RF power	1.00 Watts
DC Voltage	13.6 Volts
DC Current	1.98 Amps

**Frequency = 406.2 MHz:**

Output RF power	48 Watts
DC Voltage	13.6 Volts
DC Current	7.29 Amps

**Frequency = 406.2 MHz:**

Output RF power	0.99 Watts
DC Voltage	13.6 Volts
DC Current	1.85 Amps

**Frequency = 450.025 MHz:**

Output RF power	47.9 Watts
DC Voltage	13.6 Volts
DC Current	7.96 Amps

**Frequency = 450.025 MHz:**

Output RF power	0.99 Watts
DC Voltage	13.6 Volts
DC Current	1.91 Amps

**Frequency = 454.125 MHz:**

Output RF power	47.9 Watts
DC Voltage	13.6 Volts
DC Current	8.03 Amps

**Frequency = 454.125 MHz:**

Output RF power	0.99 Watts
DC Voltage	13.6 Volts
DC Current	1.91 Amps

**Frequency = 459.125 MHz:**

Output RF power	47.8 Watts
DC Voltage	13.6 Volts
DC Current	8.06 Amps

**Frequency = 459.125 MHz:**

Output RF power	0.99 Watts
DC Voltage	13.6 Volts
DC Current	1.94 Amps

**Frequency = 469.9875 MHz:**

Output RF power	48 Watts
DC Voltage	13.6 Volts
DC Current	7.93 Amps

**Frequency = 469.9875 MHz:**

Output RF power	0.99 Watts
DC Voltage	13.6 Volts
DC Current	1.93 Amps

EXHIBIT 6B

Transmit Audio Response

**Audio Frequency Response**  
 (Freq:450.0250MHz, ChSp: 12.5 kHz)

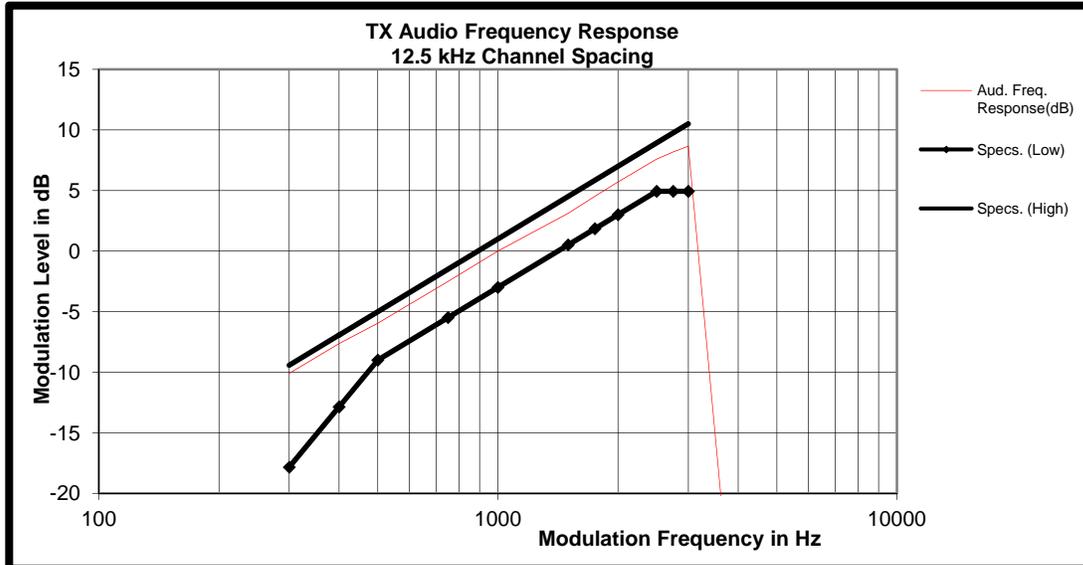


Figure 6B-1: 12.5 kHz Channel Spacing, 450.0250 MHz

**Audio Frequency Response**  
 (Freq: 450.0250MHz, ChSp: 25 kHz)

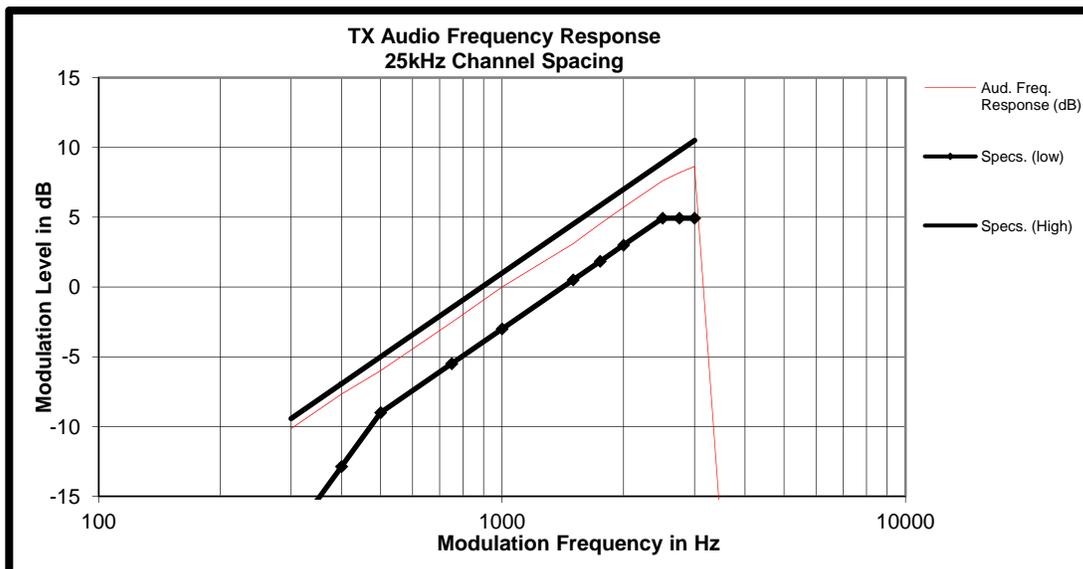


Figure 6B-2: 25 kHz Channel Spacing, 450.0250 MHz (For FCC rule part 74)

EXHIBIT 6C

Audio Low Pass Filter Response

**Transmit Audio Low Pass Filter Response**  
 (Freq: 450.0250, ChSp: 12.5kHz)

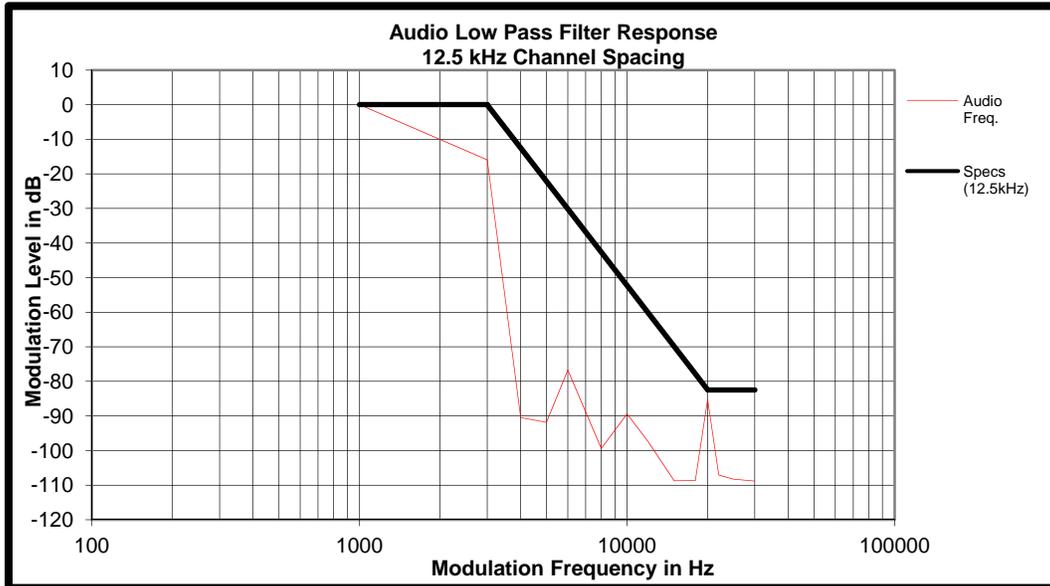


Figure 6C-1: 12.5 kHz Channel Spacing, 450.0250 MHz

**Transmit Audio Low Pass Filter Response**  
 (Freq: 450.0250, ChSp: 25kHz)

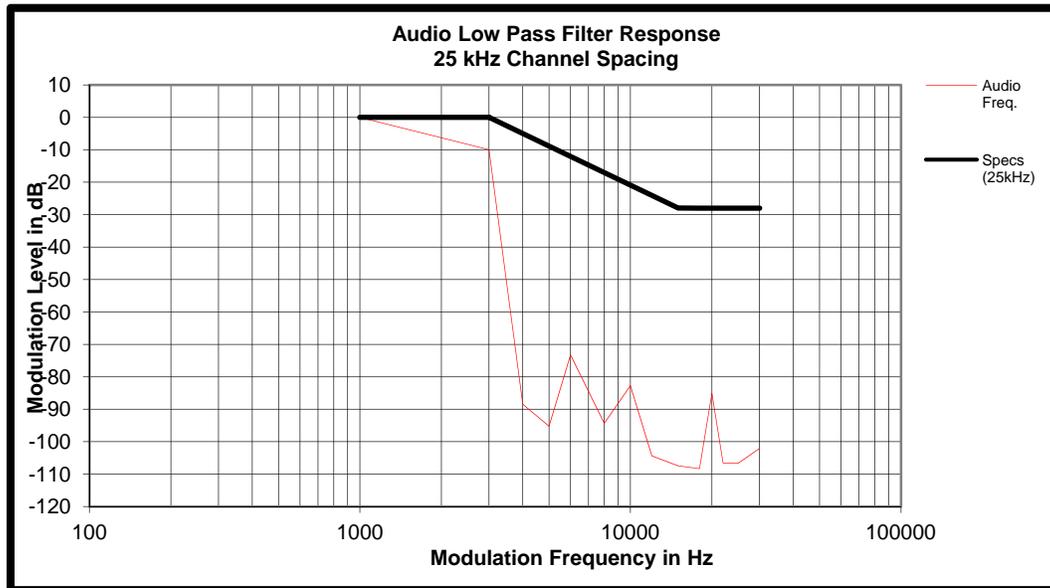


Figure 6C-2: 25 kHz Channel Spacing, 450.0250 MHz (For FCC rule part 74)

EXHIBIT 6D

Modulation Limiting

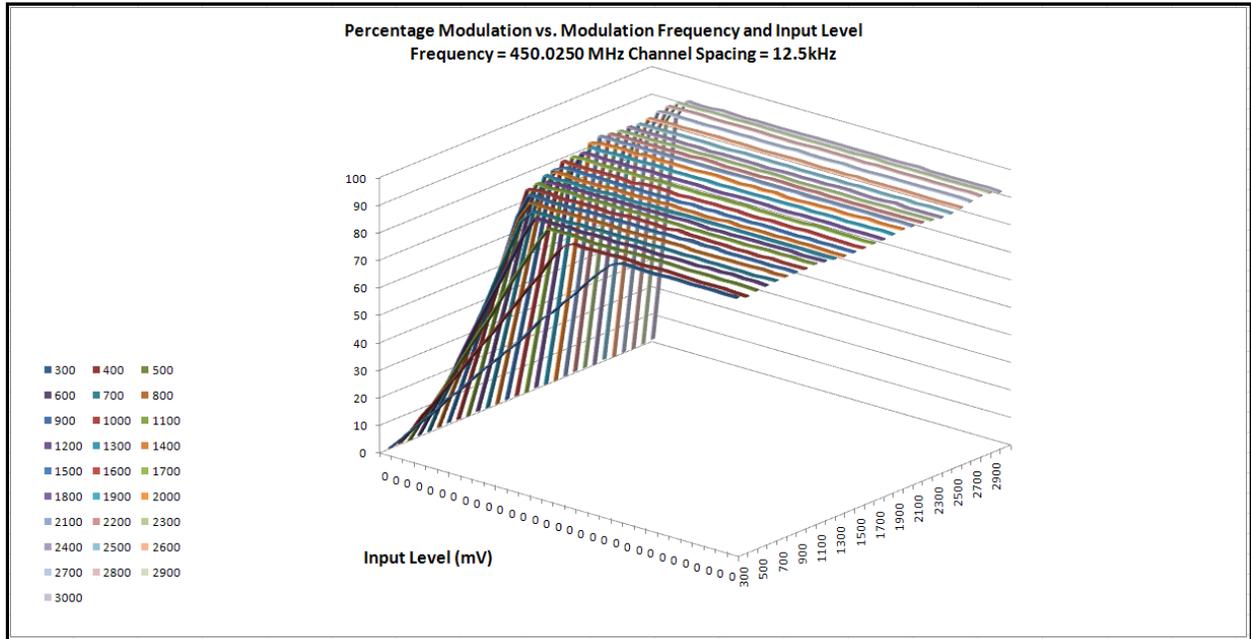


Figure 6D-1: The Percentage of Max. Deviation on the “Z” axis is referenced to 2.5 kHz for 12.5 kHz bandwidth

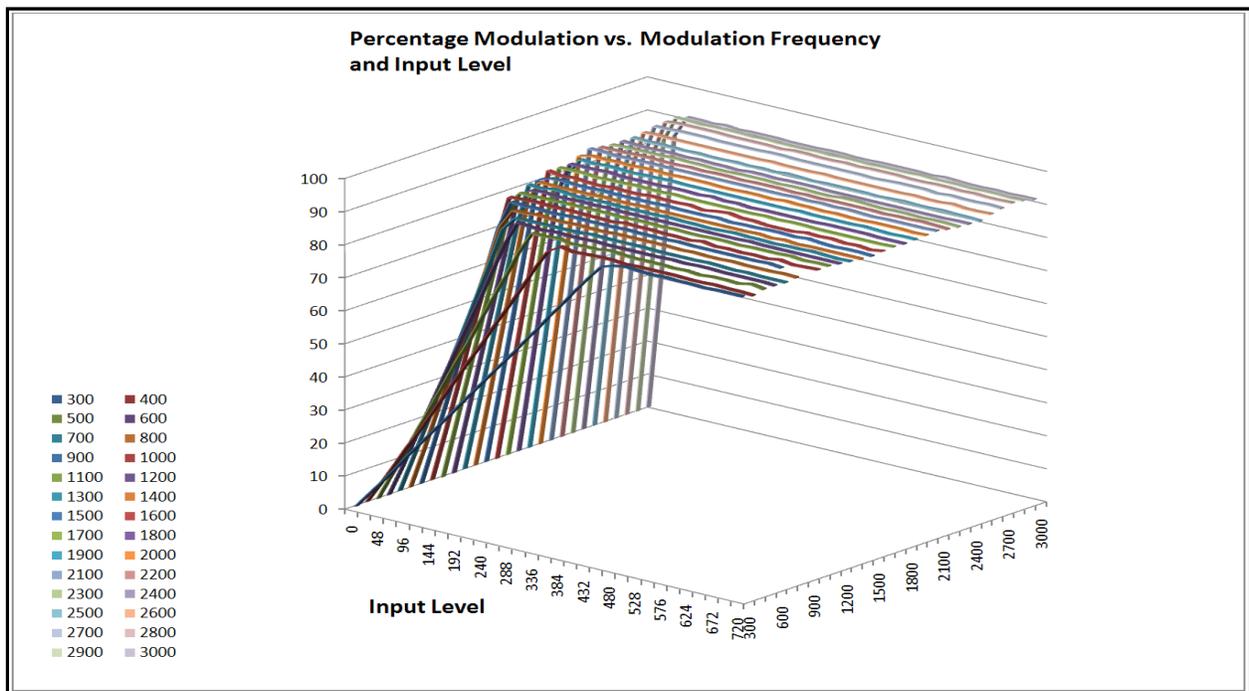


Figure 6D-2: The Percentage of Max. Deviation on the "Z" axis is referenced to 5 kHz for 25 kHz bandwidth (For FCC rule part 74)

**EXHIBIT 6E****Occupied Bandwidth Data**

***Carson's Rule for FM modulation is utilized to compute the bandwidth shown in the FCC emission designator. Carson's Rule is:  $BW = 2 * (M + D)$  where:  $BW = \text{Bandwidth}$***

M= Maximum modulating frequency  
D = Deviation

## EXHIBIT 6E-1

Standard Audio Modulation (12.5 kHz Channelization, Analog Voice):

Emission Designator 11K0F3E

In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} \Rightarrow 11K0$   
F3E portion of the designator indicates voice.

Therefore, the entire designator for 12.5 kHz channelization analog voice is 11K0F3E.

## EXHIBIT 6E-2

Standard Audio Modulation (25 kHz Channelization, Analog Voice):

Emission Designator 16K0F3E

In this case, the maximum modulating frequency is 3 kHz with a 5 kHz deviation.

$BW = 2(M+D) = 2*(3 \text{ kHz} + 5 \text{ kHz}) = 16 \text{ kHz} \Rightarrow 16K0$   
F3E portion of the designator indicates voice.

Therefore, the entire designator for 25 kHz channelization analog voice is 16K0F3E.

## EXHIBIT 6E-3

Digital (12.5 kHz Channelization, APCO Digital Data):

Emission Designator 8K10F1D

The 99% energy rule (title 47CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 8.10 kHz. Measurements were performed in accordance with TIA/EIA TSB102.CAAB Section 2.2.5.2. The emission mask was obtained from 47CFR 90.210(d).

F1D portion of the designator indicates digital data.

Therefore, the entire designator for 12.5 kHz channelization digital data is 8K10F1D.

**EXHIBIT 6E-4**

Digital (12.5 kHz Channelization, APCO Digital Voice):

Emission Designator 8K10F1E

The 99% energy rule (title 47CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 8.10 kHz. Measurements were performed in accordance with TIA/EIA TSB102.CAAB Section 2.2.5.2. The emission mask was obtained from 47CFR 90.210(d).

F1E portion of the designator indicates digital voice.

Therefore, the entire designator for 12.5 kHz channelization digital voice is 8K10F1E.

**EXHIBIT 6E-5**

Digital (12.5 kHz Channelization, Phase II (TDMA)):

Emission Designator 8K10F1W

The 99% energy rule (title 47CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 8.10 kHz. Measurements were performed in accordance with TIA/EIA TSB102.CAAB Section 2.2.5.2. The emission mask was obtained from 47CFR 90.210(d).

F1W portion of the designator indicates digital TDMA.

Therefore, the entire designator for 12.5 kHz channelization digital TDMA is 8K10F1W.

**EXHIBIT 6E-6**

Securenet Mode (20.0 kHz Channelization, Analog Voice with Encryption):

Emission Designator 20K0F1E

In this case, the maximum modulating frequency is 6.0 kHz with a 4.0 kHz deviation.

$BW = 2(M+D) = 2*(6.0 \text{ kHz} + 4.0 \text{ kHz}) = 20 \text{ kHz} \implies 20K0$

F1E portion of the designator indicates digital voice.

Therefore, the entire designator for 20.0 kHz channelization securenet mode (analog voice with encryption) is 20K0F1E.

Note: The 90.203(j) efficiency standard for "F1D" emission is met by sending 2 bits at a time, at a rate of 4800 symbols/second. This yields 9600 bits/second, which is achieved using the modulation technique described in the note below. Modulation results from one of the digital 4-level standard symbol patterns applied to the modulation at a rate of 9600 bits/second. The modulation technique is 4-level FM. The information bits are commonly represented by a symbol that corresponds to one of 4 levels of FM deviation according to the following table.

<u>Information Bits</u>	<u>Symbol</u>	<u>C4FM Deviation</u>
01	+3	+1.8 kHz
00	+1	+0.6 kHz
10	-1	-0.6 kHz
11	-3	-1.8 kHz

For example, an 8-bit binary pattern of 0010 1101 would be sent as symbols +1, -1, -3, +3, which would cause a modulation signal (Frequency-Shift-Keyed) of +1.8 kHz, -600 Hz, -1.8 kHz, and +1.8 kHz. This

results in 9600 bits/second of information being sent on a 12.5 kHz channel, which is the equivalent of 4800 bits/second per 6.25 kHz.

Note: The "F1D", "F1E" and "F1W" signal parameters are described as follows: The modulation is 4-level FSK with +/-600 Hz and +/-1.8 kHz shifting (+/-600 Hz and +/-1.8 kHz are the 4 distinct levels of signals). The digital voice test pattern is created by a 2500 Hz sine wave modulated at a level that is 16 dB above that required to produce 50% deviation at the radio output. The digital data test signal is generated by an internally generated pseudo random test pattern based on ITU-T 0.153 (formally CCITT V.52).

EXHIBIT 6E-7

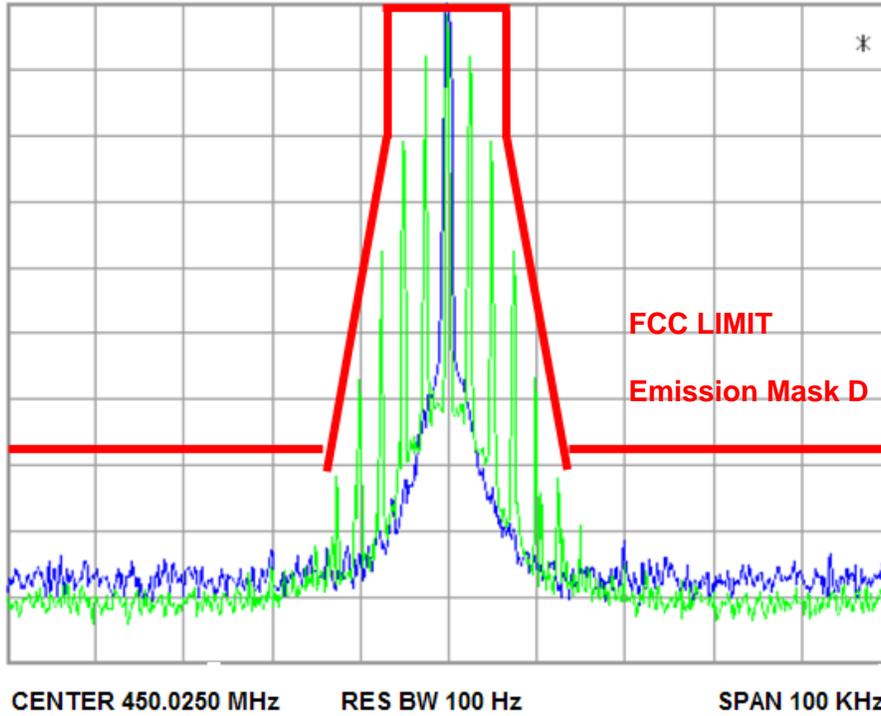
Digital Modulation (20 kHz Channelization, APCO Digital Voice with encryption):  
Emission Designator 20K0F1E

In this case, the maximum modulating frequency is 6 kHz with a 4 kHz deviation.

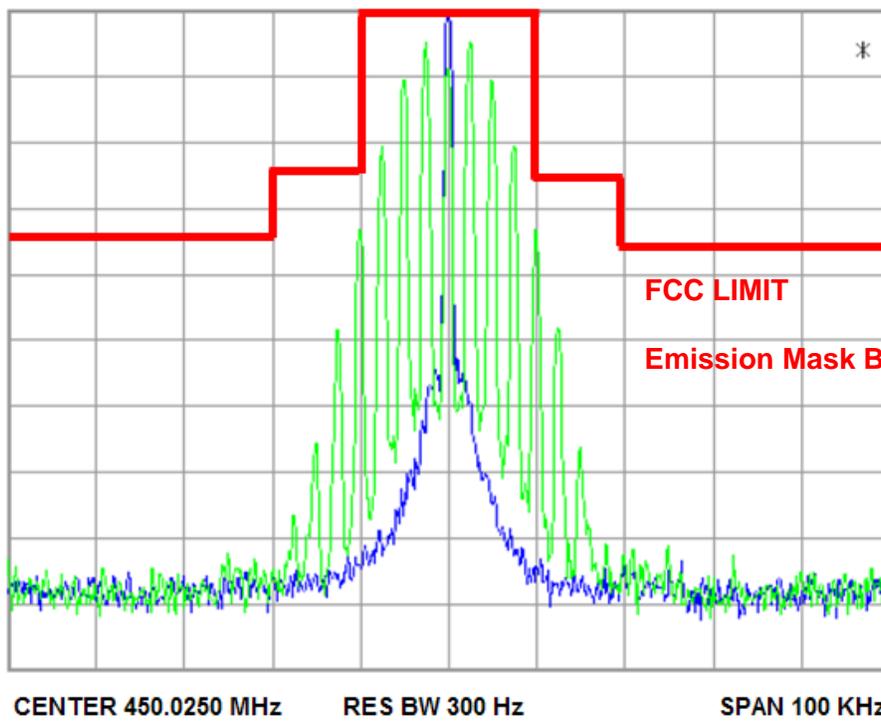
$BW = 2(M+D) = 2*(6 \text{ kHz} + 4 \text{ kHz}) = 20 \text{ kHz} \Rightarrow 20K0$   
F1E portion of the designator indicates digital voice.

Therefore, the entire designator for 20 kHz channelization analog voice is 20K0F1E.

**EXHIBIT 6E**  
**Occupied Bandwidth Data**



**Figure 6E-1:** 12.5 kHz Channel Spacing, 450.0250 MHz, Analog Voice, Mask D 11KOF3E



**Figure 6E-2:** 25.0 kHz Channel Spacing, 450.0250 MHz, Analog Voice, Mask B 16K0F3E (For FCC rule part 74)

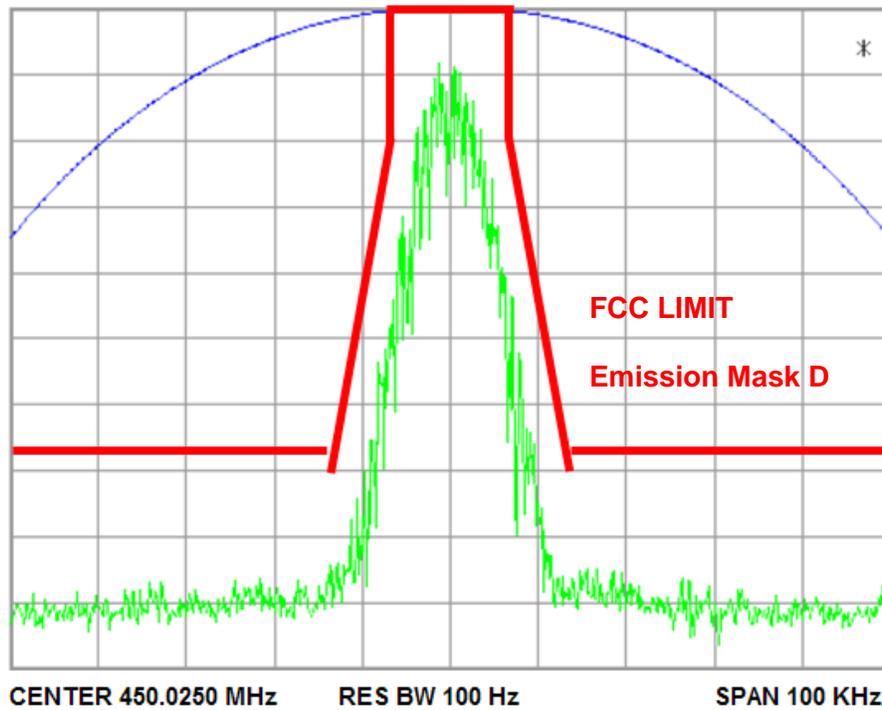


Figure 6E-3: 12.5 kHz Channel Spacing, 450.0250 MHz, APCO Digital Data, Mask D 8K10F1D

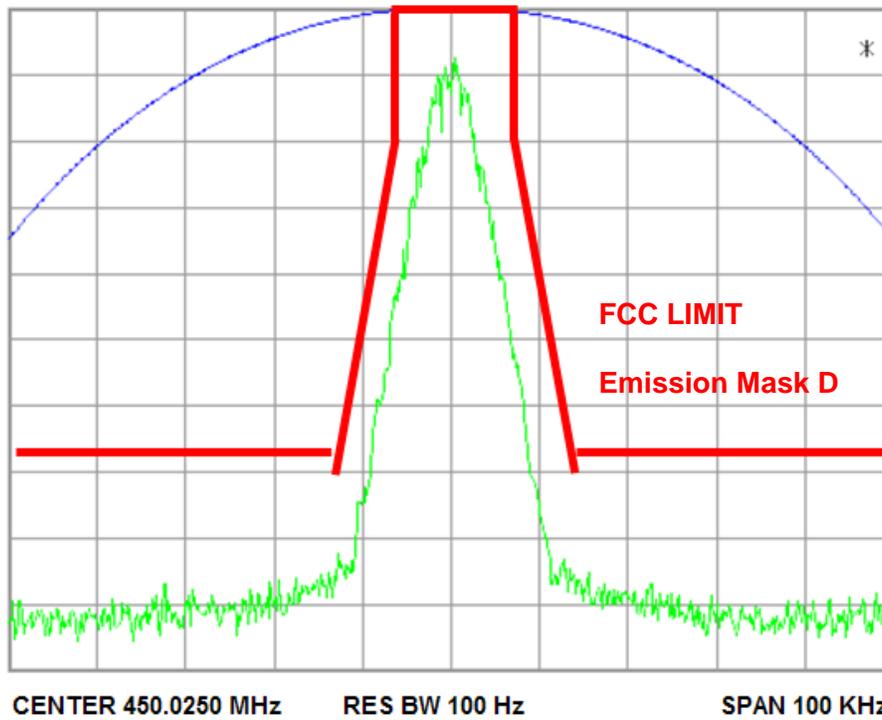


Figure 6E-4: 12.5 kHz Channel Spacing, 450.0250 MHz, APCO Digital Voice, Mask D 8K10F1E

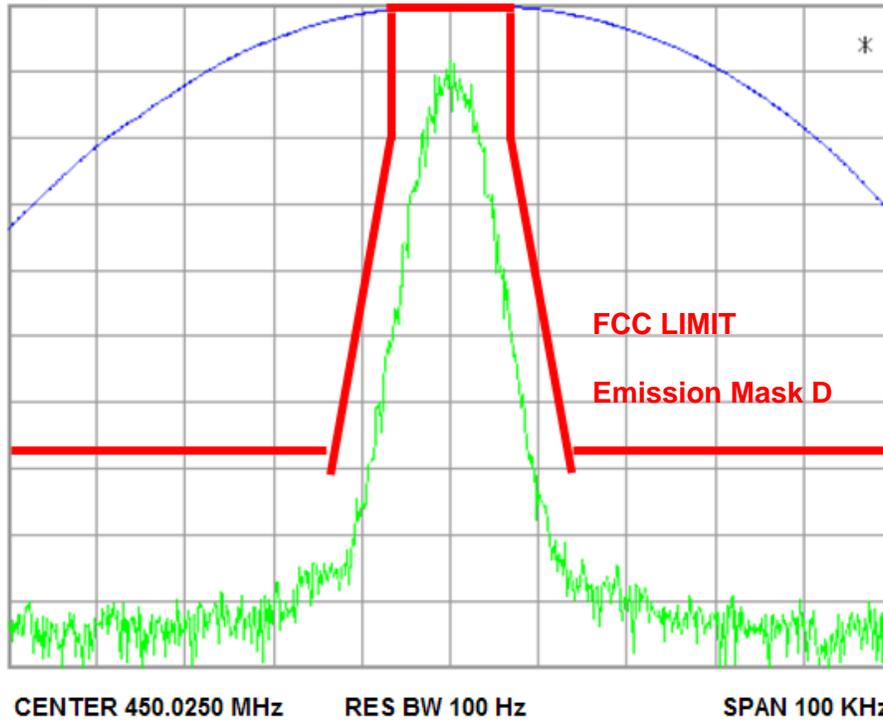


Figure 6E-5: 12.5 kHz Channel Spacing, 450.0250 MHz, Phase II (TDMA), Mask D 8K10F1W

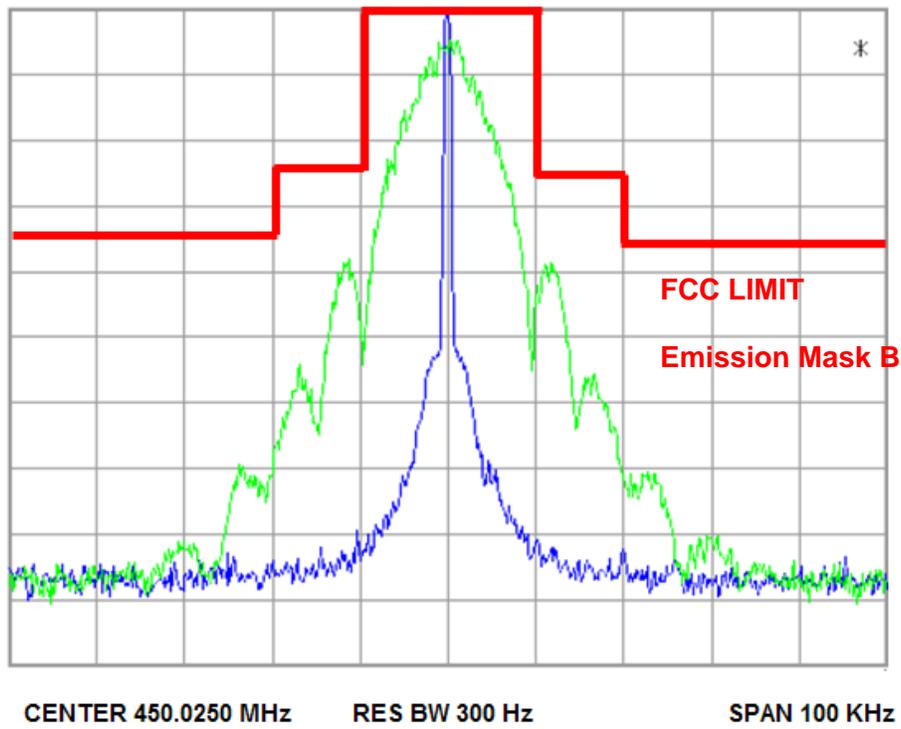


Figure 6E-6: 20 kHz Channel Spacing, 450.0250 MHz, Analog Voice Encryption, Mask B 20K0F1E (For FCC rule part 74)

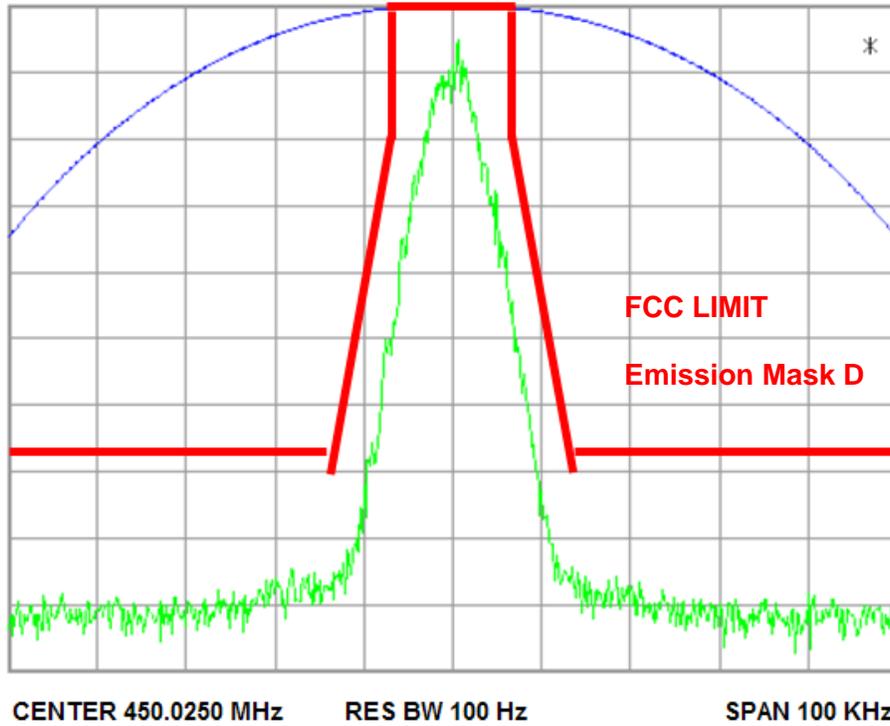


Figure 6E-7: 12.5 kHz Channel Spacing, 450.0250 MHz, APCO Digital Voice Encryption, Mask D 8K10F1E

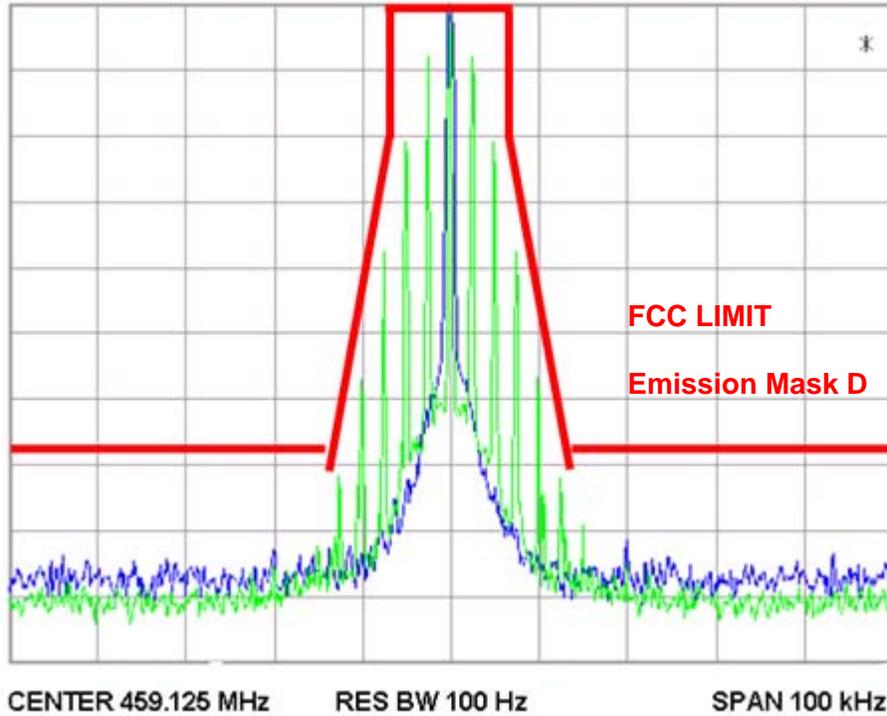


Figure 6E-8: 12.5 kHz Channel Spacing, 459.1250 MHz, Analog Voice, Mask D 11KOF3E

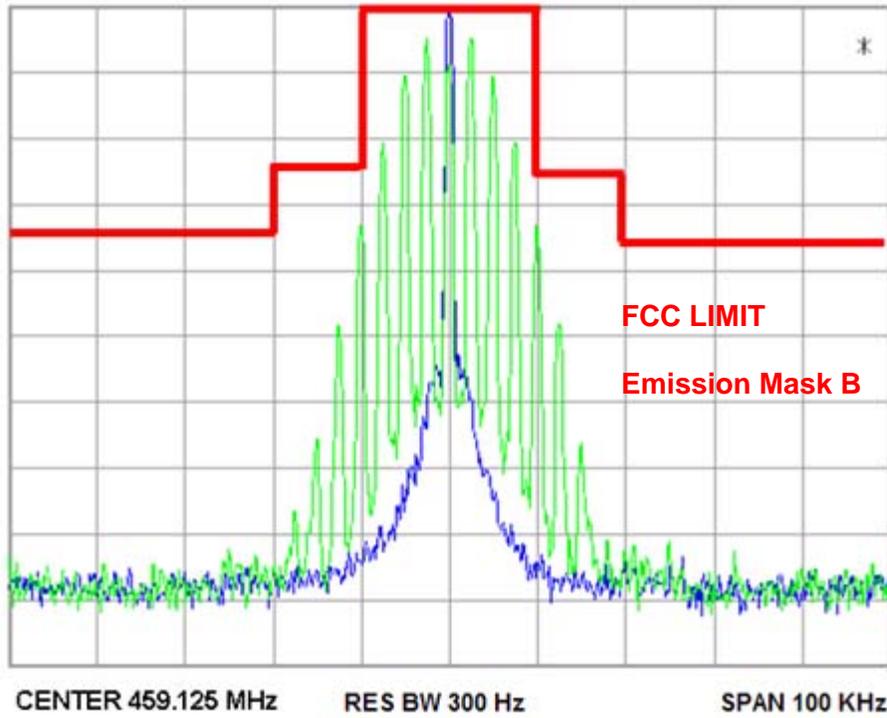


Figure 6E-9: 25.0 kHz Channel Spacing, 459.1250 MHz, Analog Voice, Mask B 16K0F3E (For FCC rule part 22)

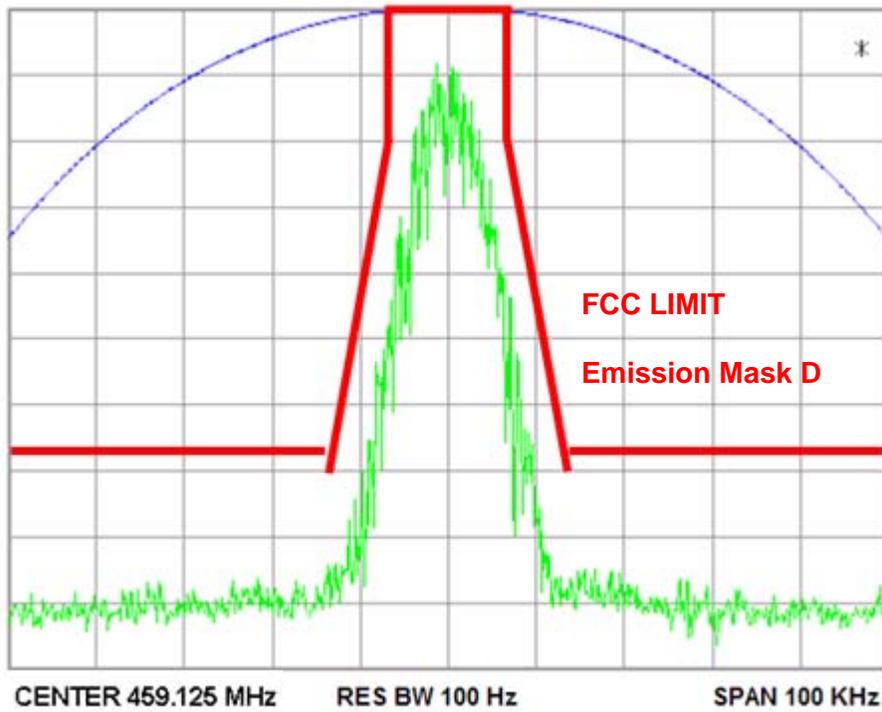


Figure 6E-10: 12.5 kHz Channel Spacing, 459.1250 MHz, APCO Digital Data, Mask D 8K10F1D

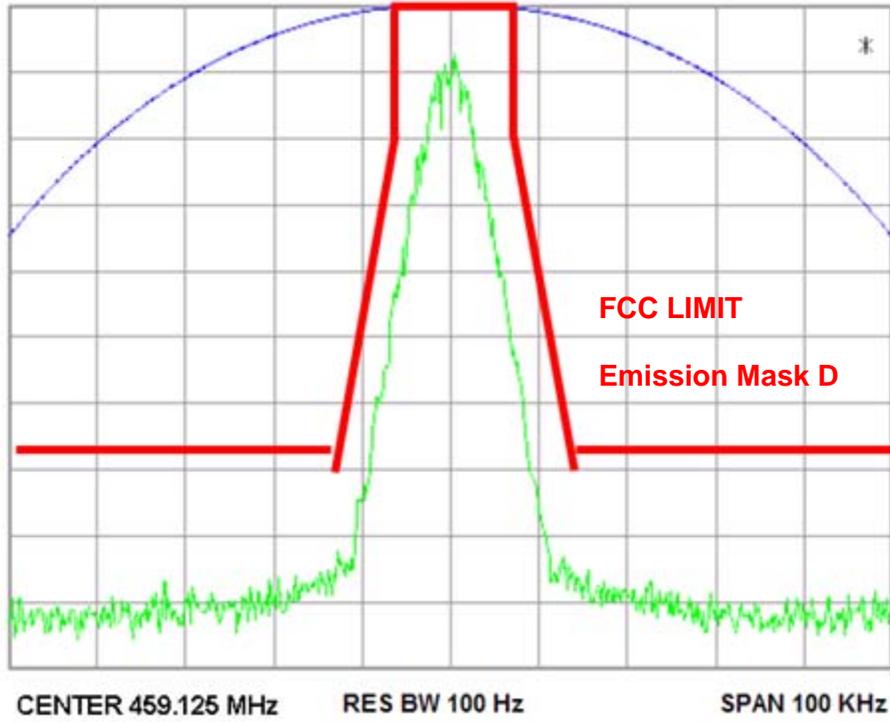


Figure 6E-11: 12.5 kHz Channel Spacing, 459.1250 MHz, APCO Digital Voice, Mask D 8K10F1E

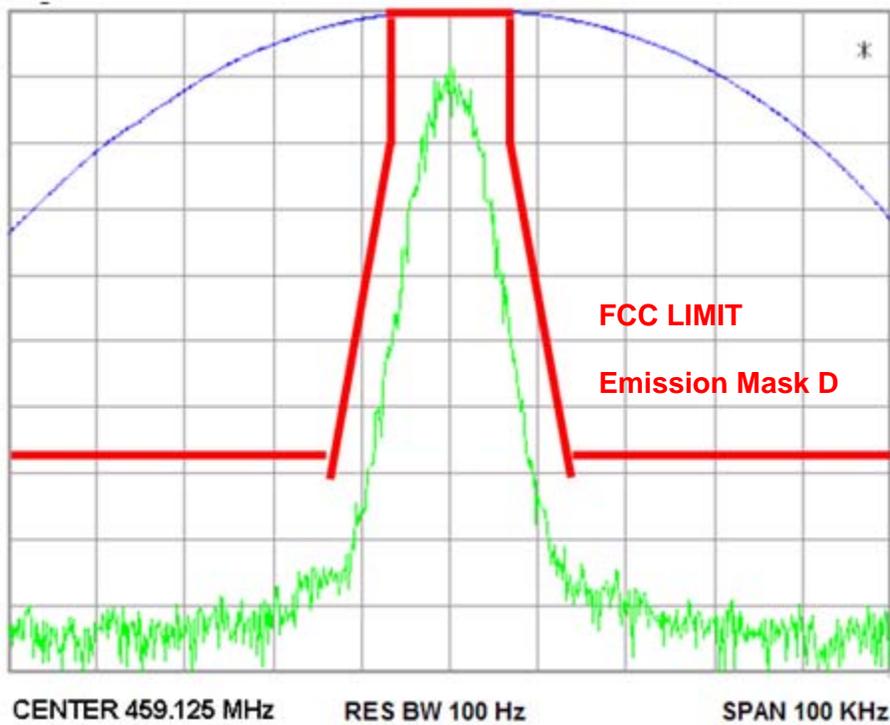


Figure 6E-12: 12.5 kHz Channel Spacing, 459.1250 MHz, Phase II (TDMA), Mask D 8K10F1W

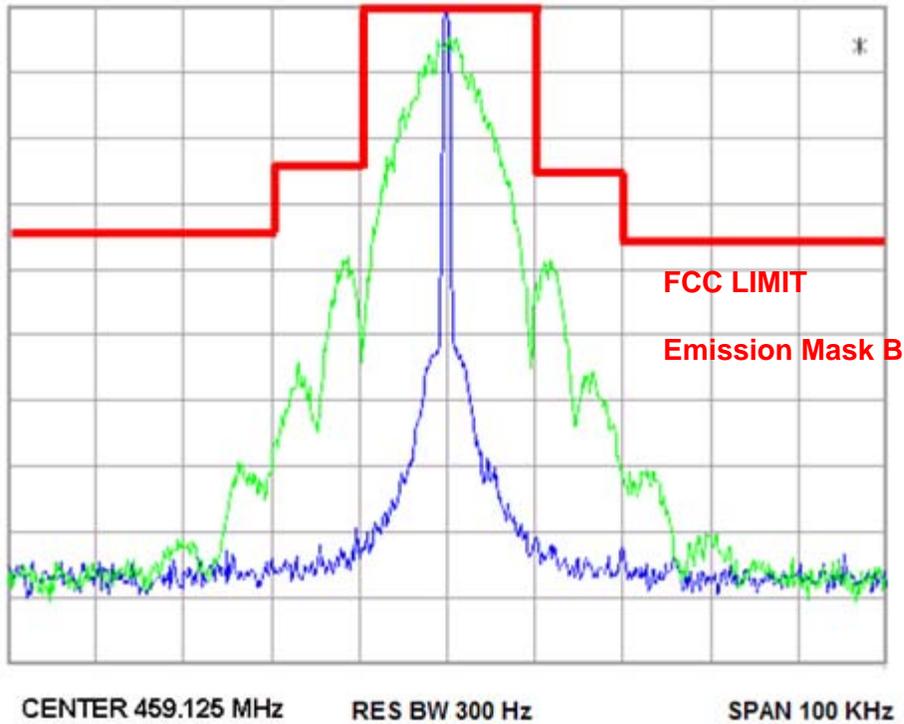


Figure 6E-13: 20 kHz Channel Spacing, 459.1250 MHz, Analog Voice Encryption, Mask B 20K0F1E (For FCC rule part 22)

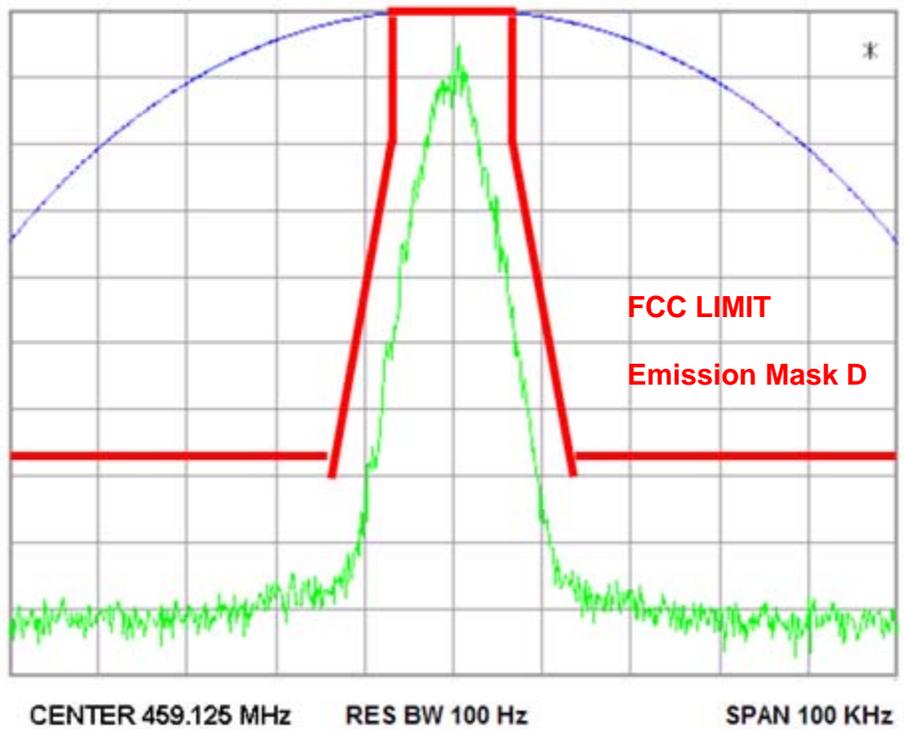


Figure 6E-14: 12.5 kHz Channel Spacing, 459.1250 MHz, APCO Digital Voice Encryption, Mask D 8K10F1E

**EXHIBIT 6F**  
**Conducted Spurious Emissions**

Note: Red lines on graphs correspond to the FCC limit of -20 dBm for 12.5 kHz channel spacing and -13 dBm for 25 kHz channel spacing.

**ANALOG MODE**

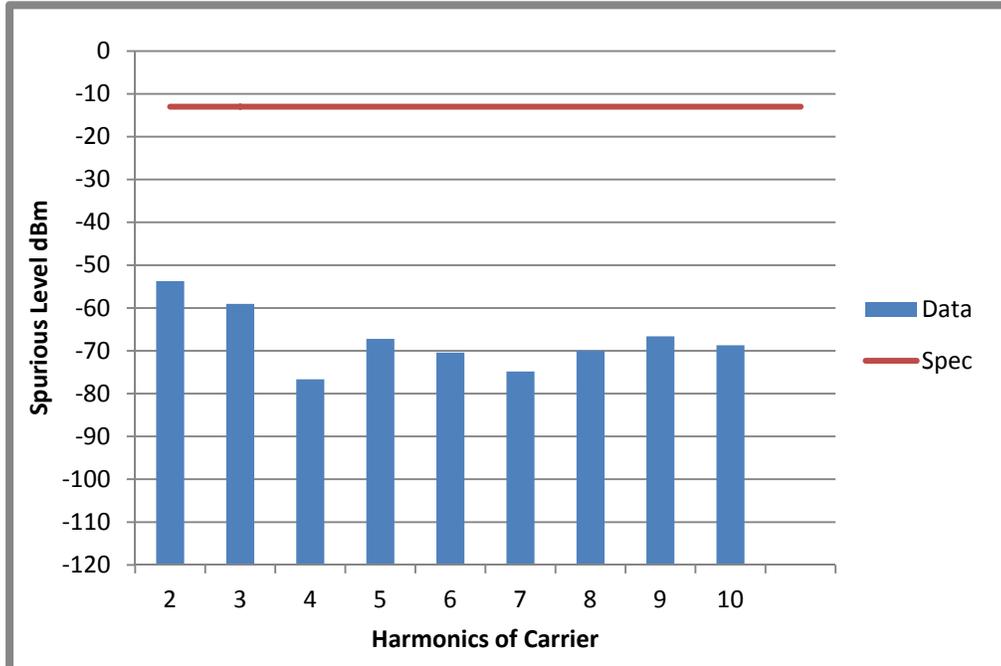


Figure 6F-1: 48 Watts Harmonic of Carrier 380.0125 MHz, 25 kHz Channel Spacing (For Federal)

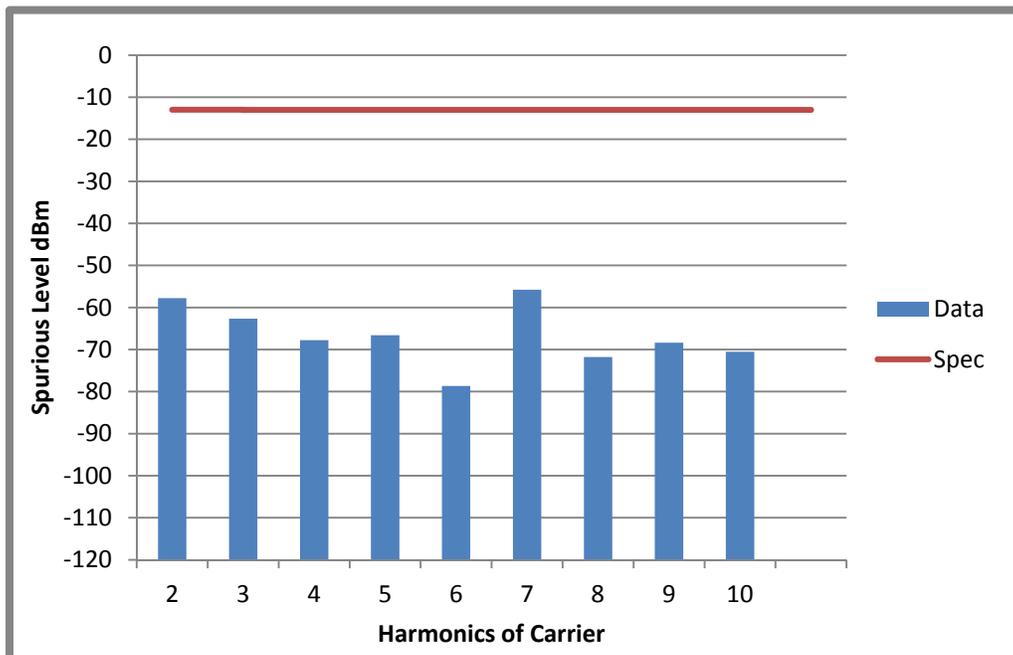


Figure 6F- 2: 48 Watts Harmonic of Carrier 406.2 MHz, 25 kHz Channel Spacing (Not for FCC review)

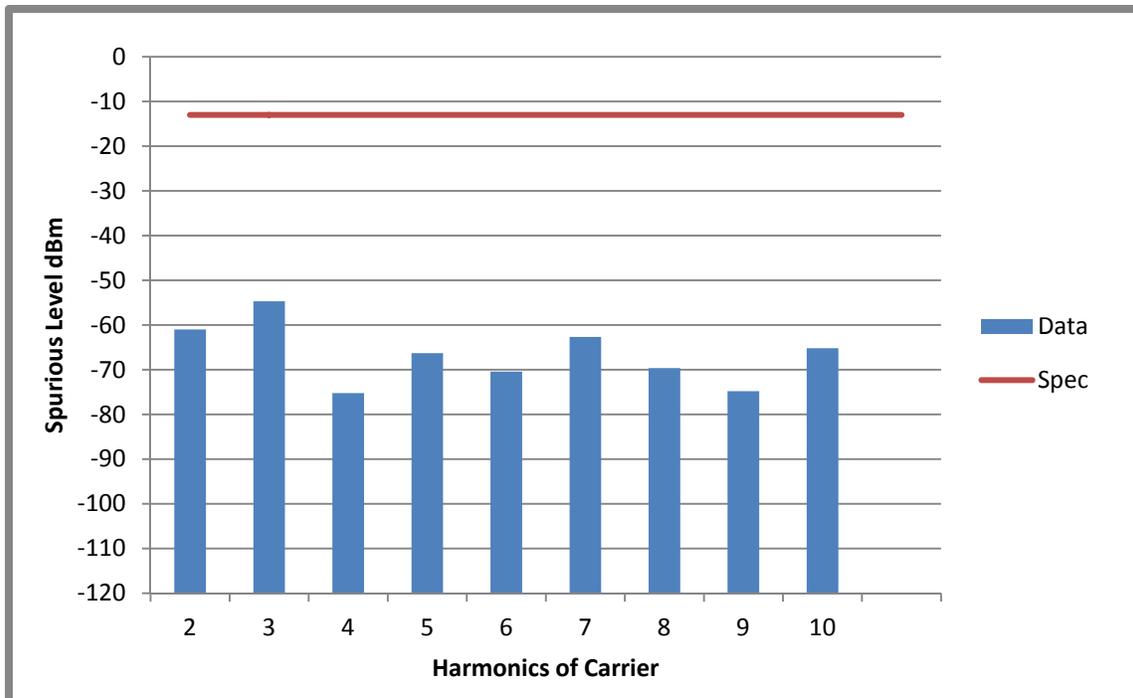


Figure 6F- 3: 48 Watts Harmonic of Carrier 450.0250 MHz, 25 kHz Channel Spacing (For FCC rule part 74)

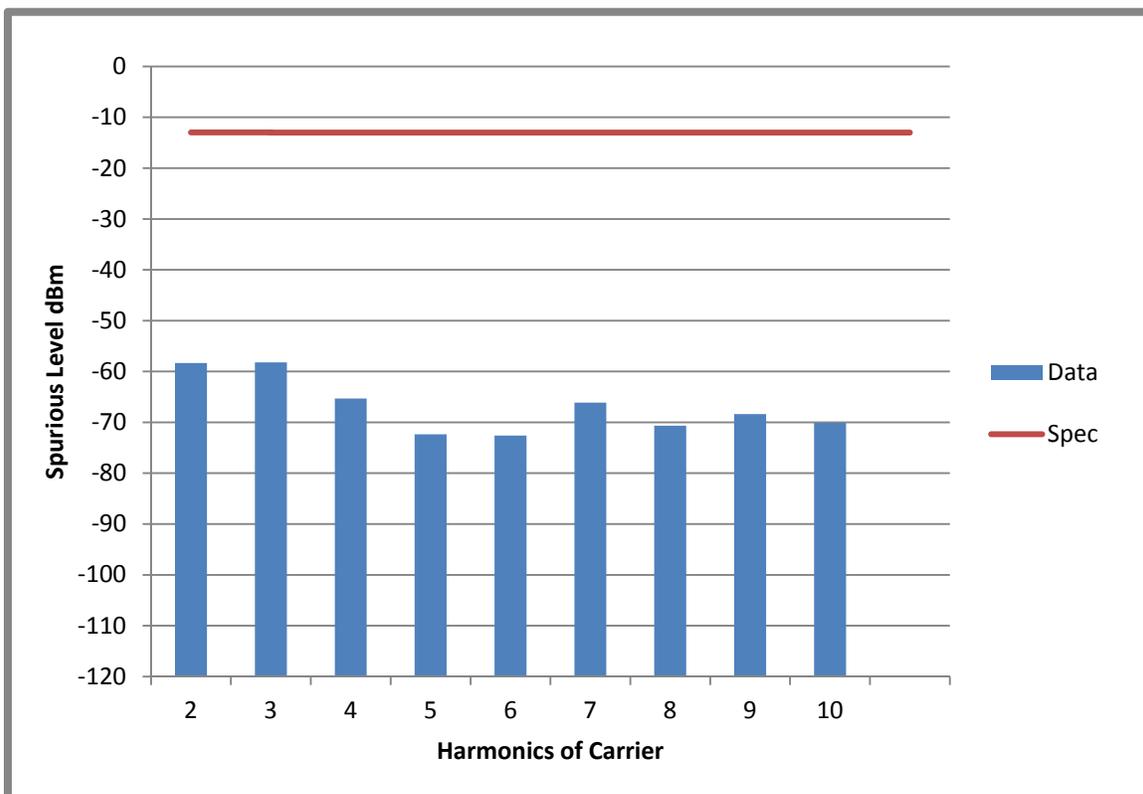


Figure 6F- 4: 48 Watt Harmonic of Carrier 454.1250 MHz, 25 kHz Channel Spacing (For FCC rule part 22)

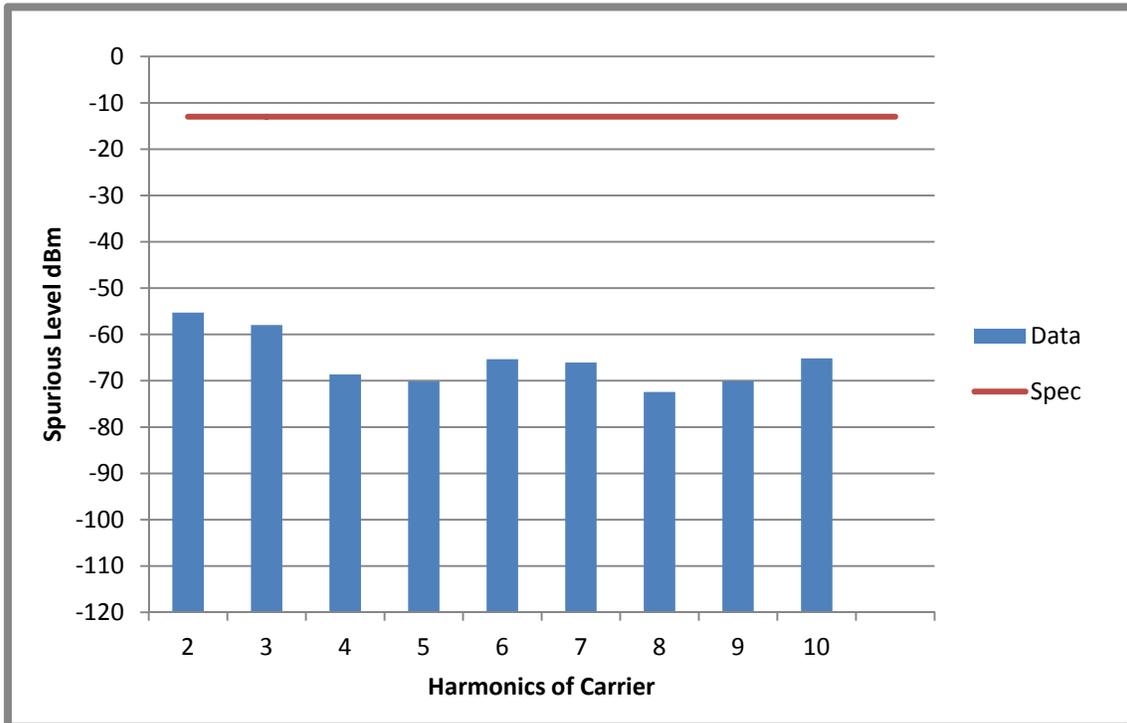


Figure 6F- 5: 48 Watt Harmonic of Carrier 459.1250 MHz, 25 kHz Channel Spacing (For FCC rule part 22)

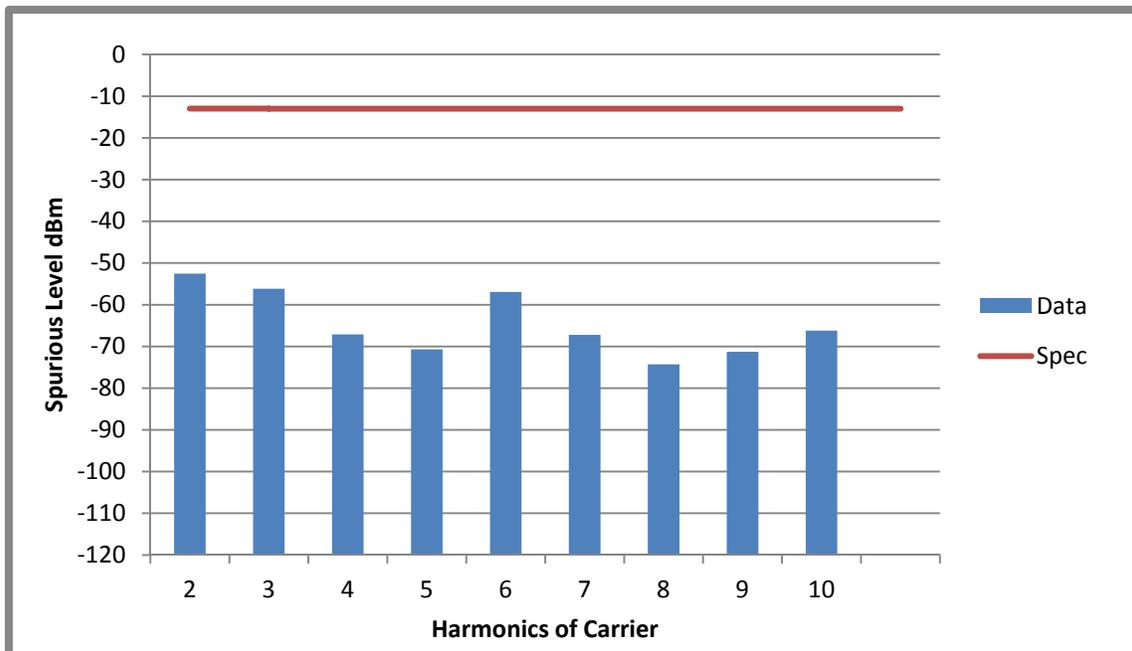


Figure 6F- 6: 48 Watt Harmonic of Carrier 469.9875 MHz, 25 kHz Channel Spacing (Not for FCC review)

APCO DIGITAL MODE

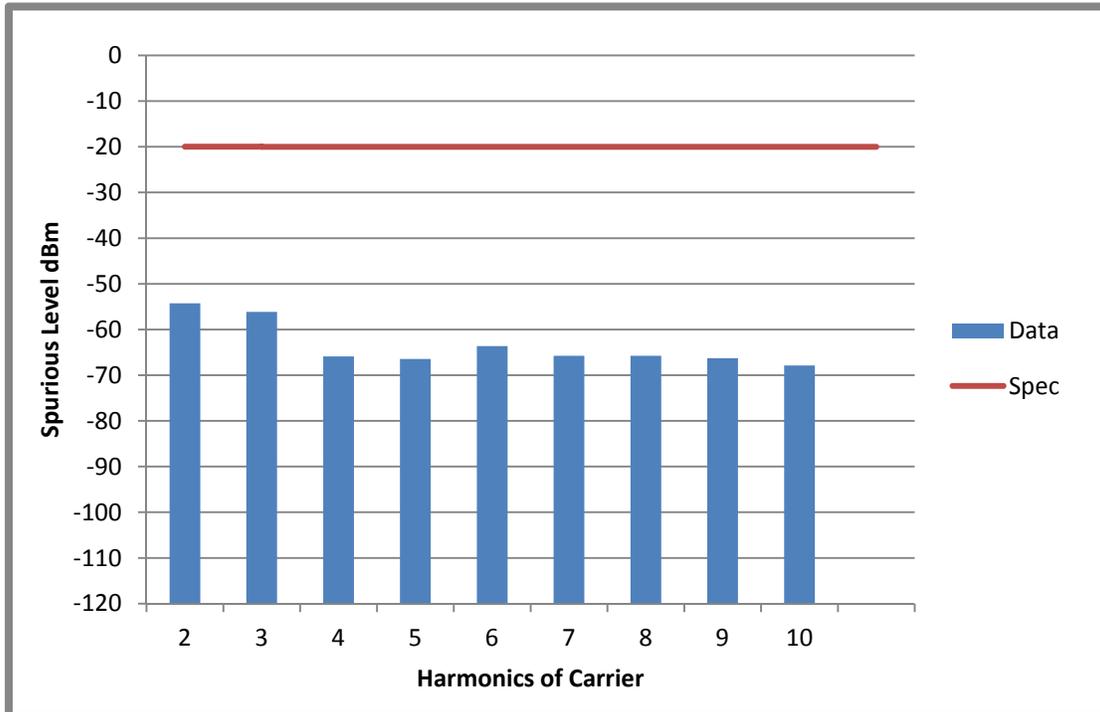


Figure 6F-7: 48 Watts Harmonic of Carrier 380.0125 MHz, 12.5 kHz Channel Spacing

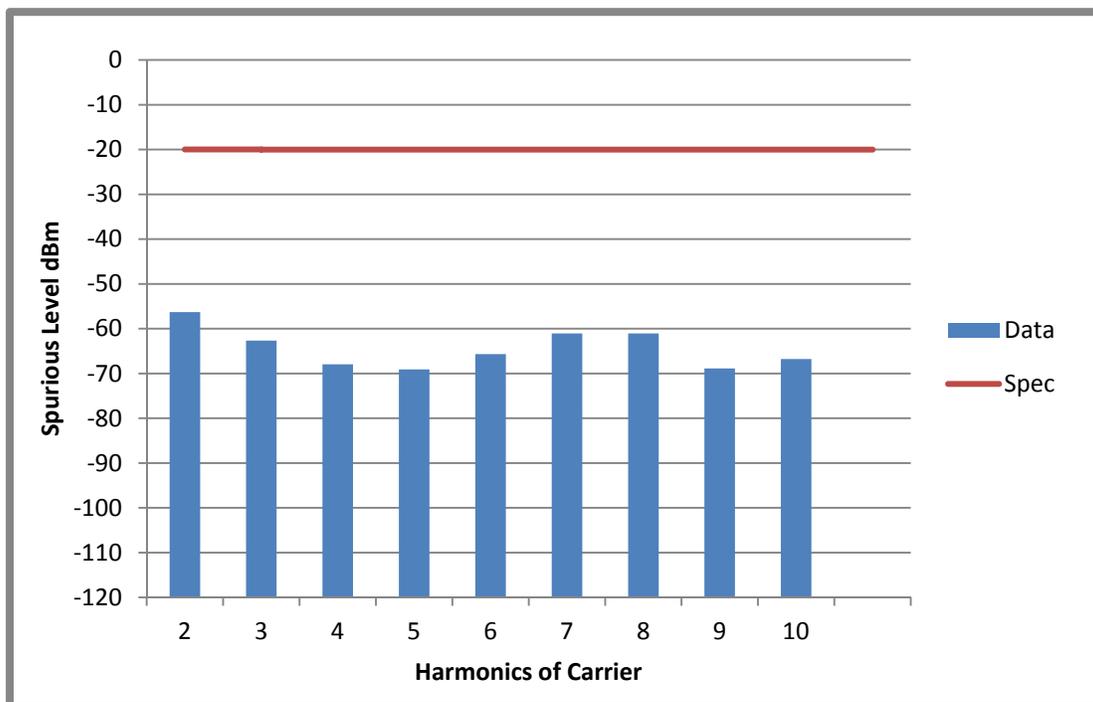


Figure 6F- 8: 48Watts Harmonic of Carrier 406.2 MHz, 12.5 kHz Channel Spacing

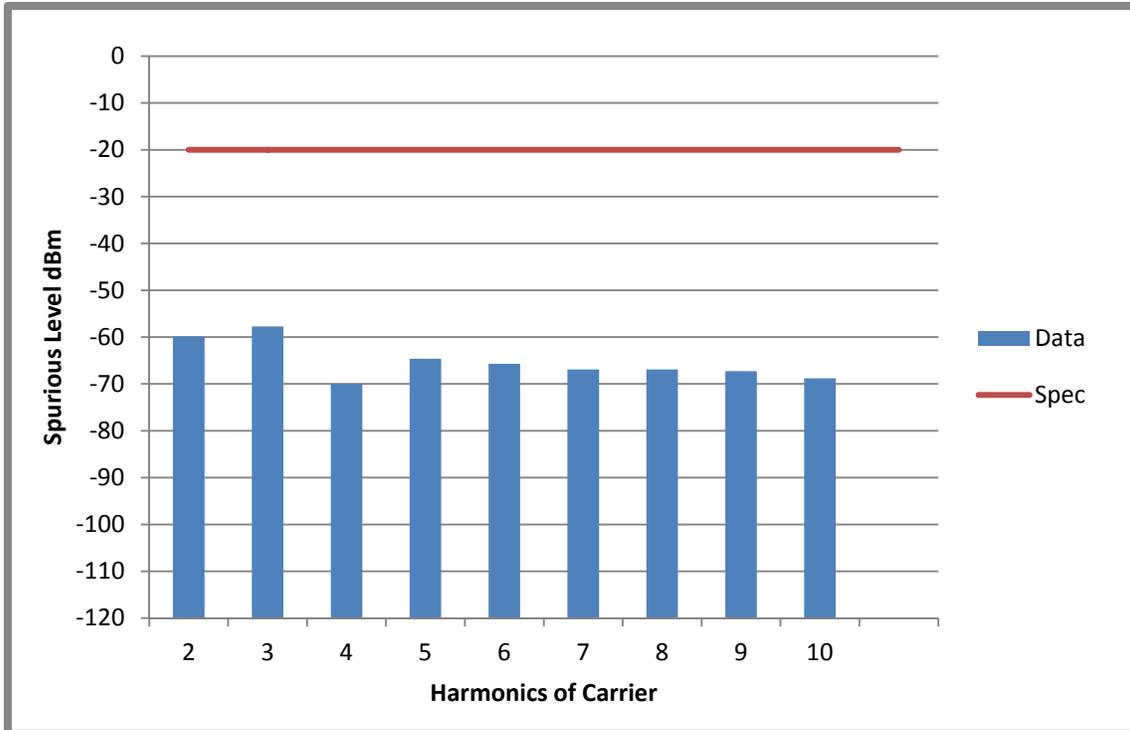


Figure 6F- 9: 48 Watts Harmonic of Carrier 450.0250 MHz, 12.5 kHz Channel Spacing

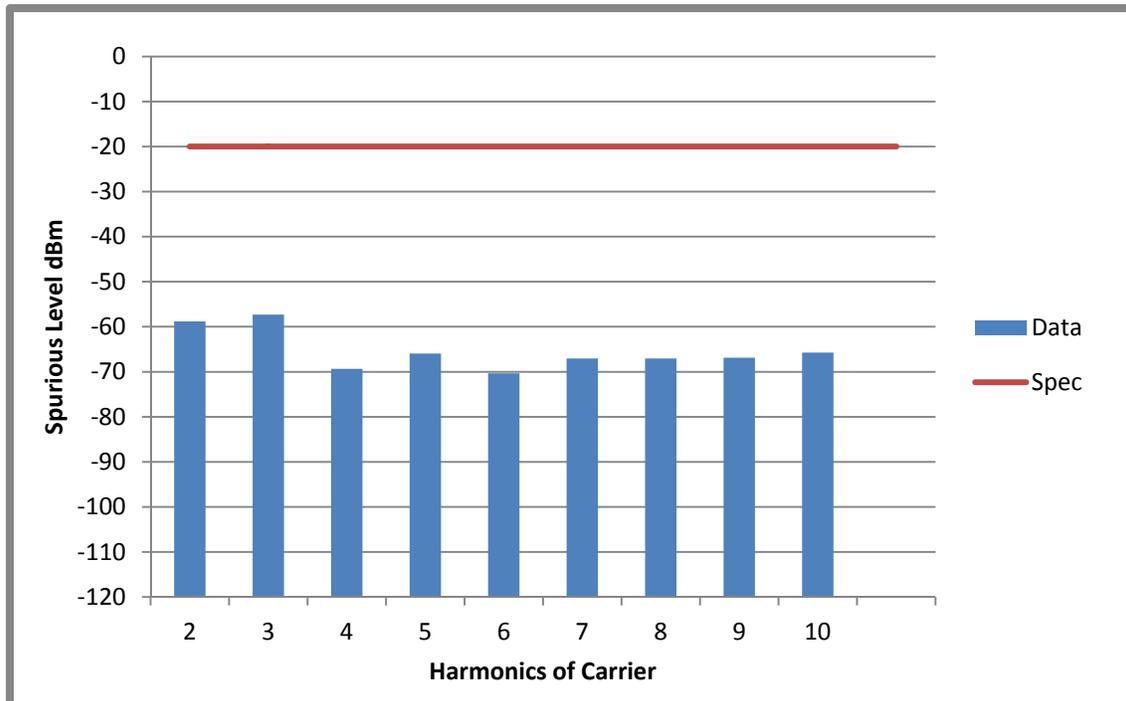


Figure 6F- 10: 48 Watts Harmonic of Carrier 454.1250 MHz, 12.5 kHz Channel Spacing

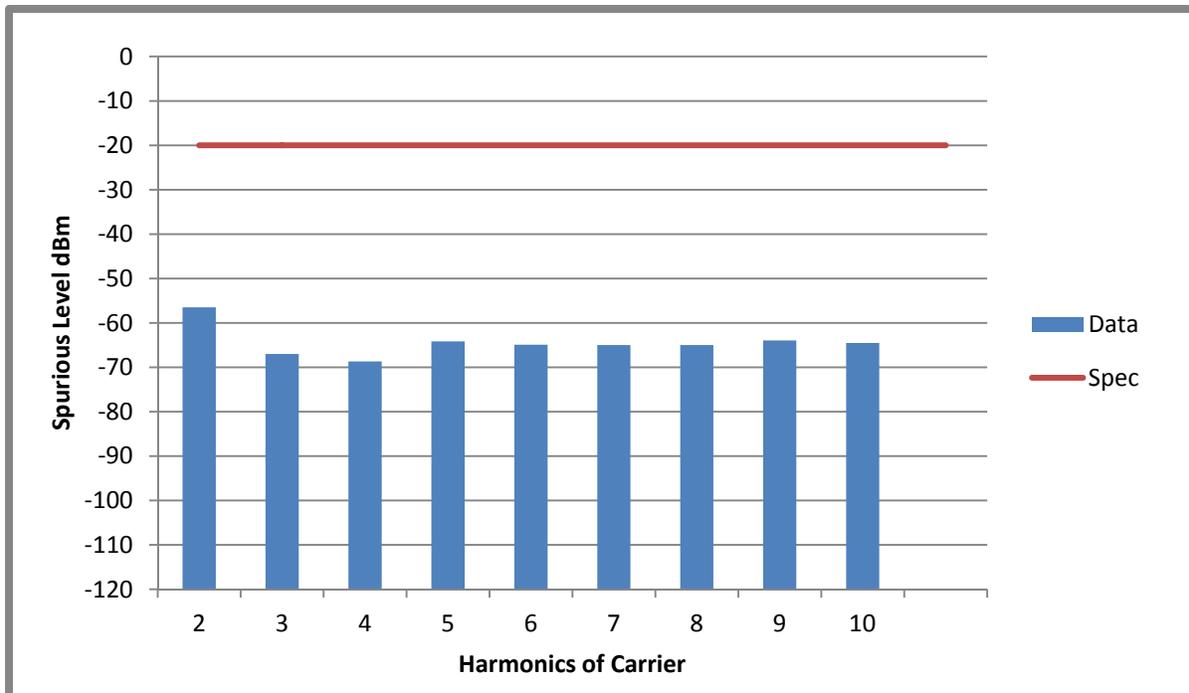


Figure 6F- 11: 48 Watts Harmonic of Carrier 459.1250 MHz, 12.5 kHz Channel Spacing

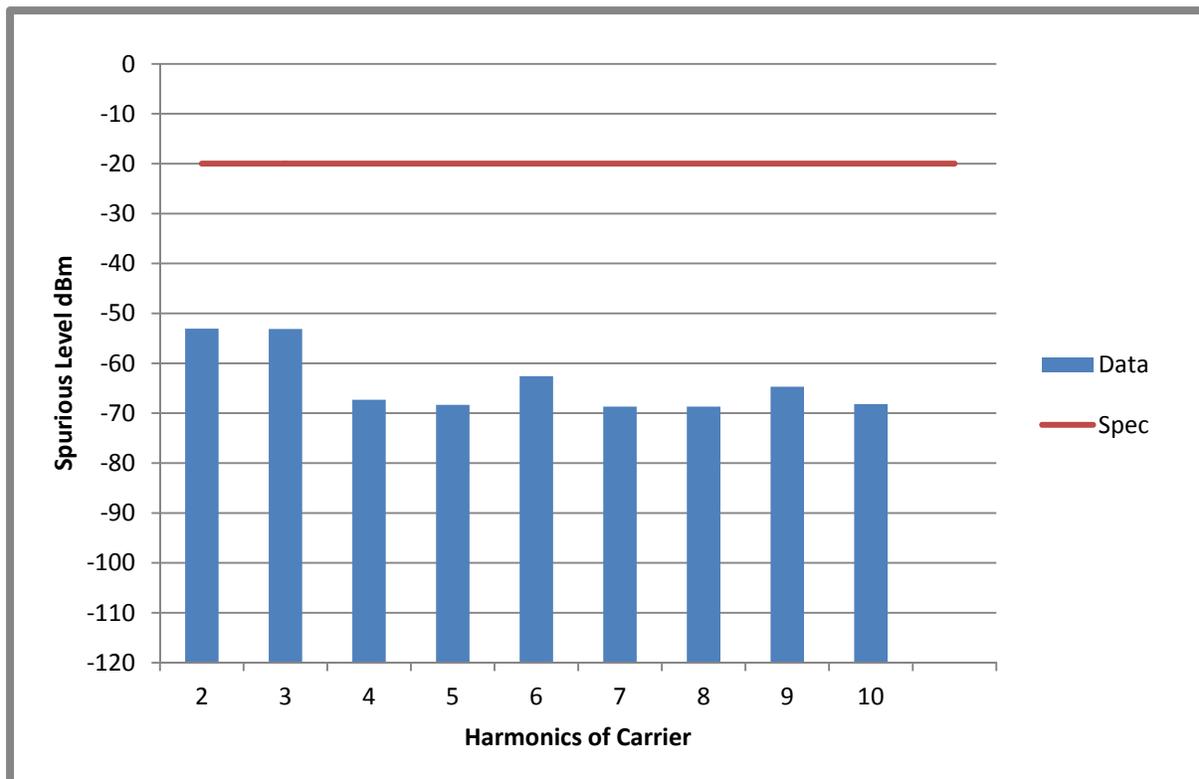


Figure 6F- 12: 48 Watts Harmonic of Carrier 469.9875 MHz, 12.5 kHz Channel Spacing

PHASE II (TDMA) MODE

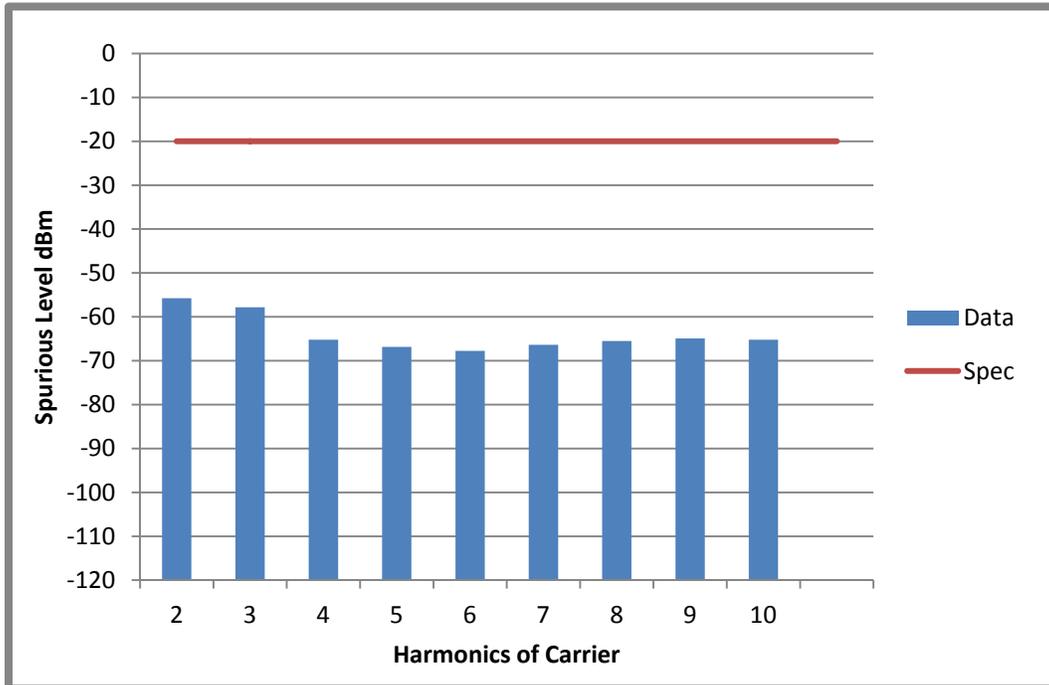


Figure 6F-13: 48 Watts Harmonic of Carrier 380.0125 MHz, 12.5 kHz Channel Spacing

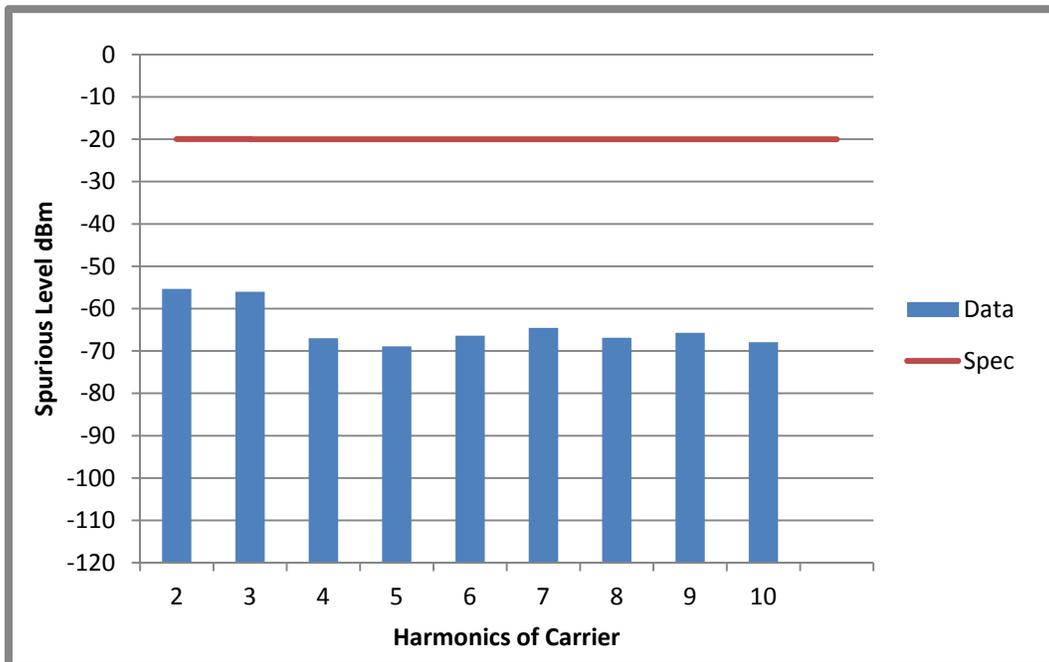


Figure 6F- 14: 48 Watts Harmonic of Carrier 406.2 MHz, 12.5 kHz Channel Spacing

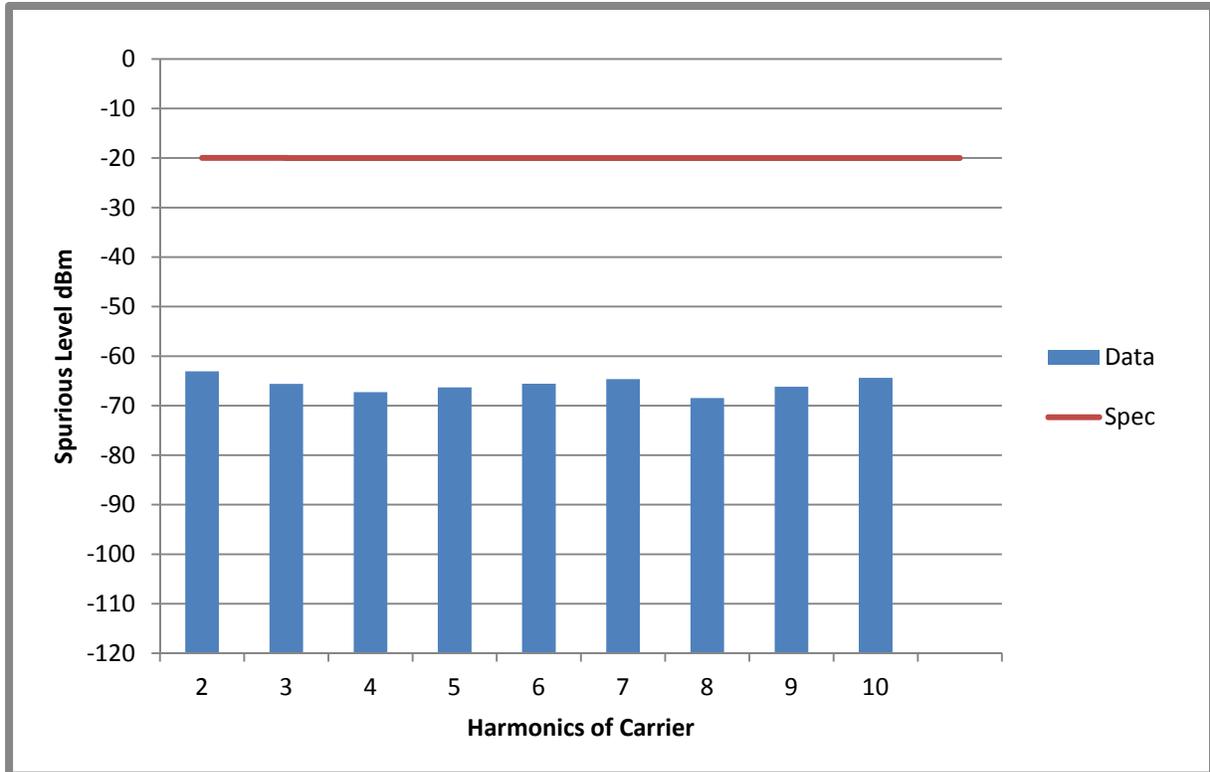


Figure 6F- 15: 48 Watts Harmonic of Carrier 450.0250 MHz, 12.5 kHz Channel Spacing

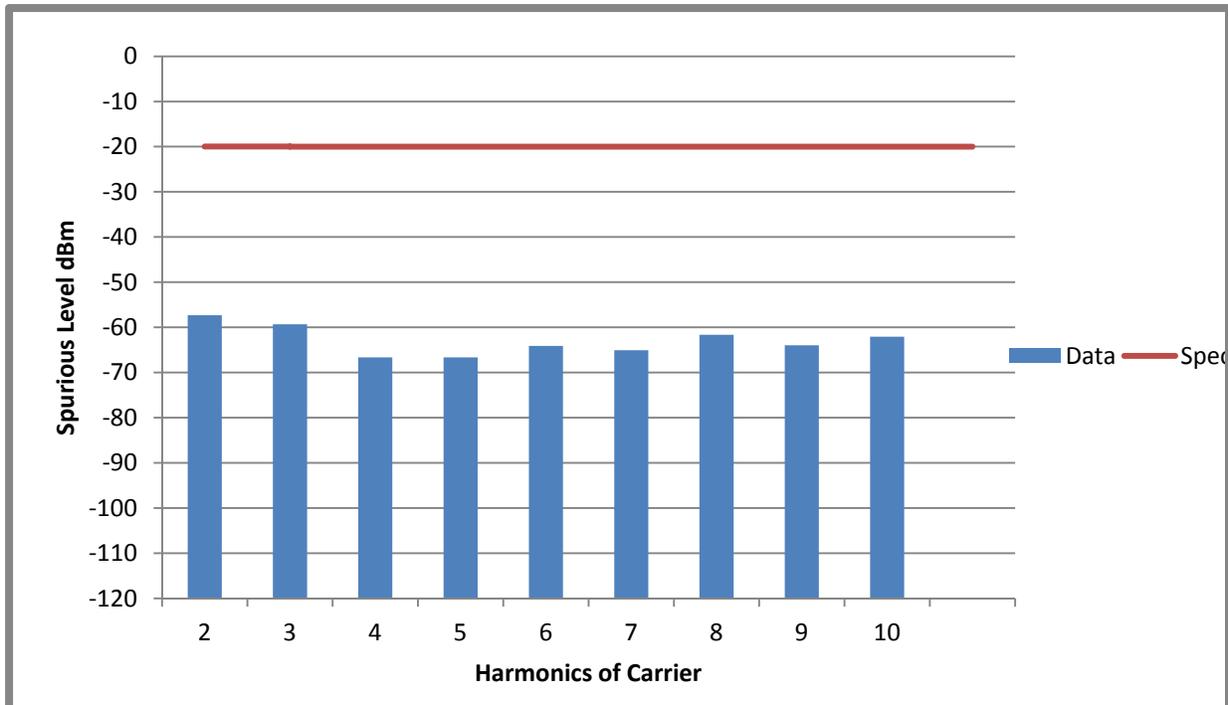


Figure 6F- 16: 48 Watts Harmonic of Carrier 454.1250 MHz, 12.5 kHz Channel Spacing

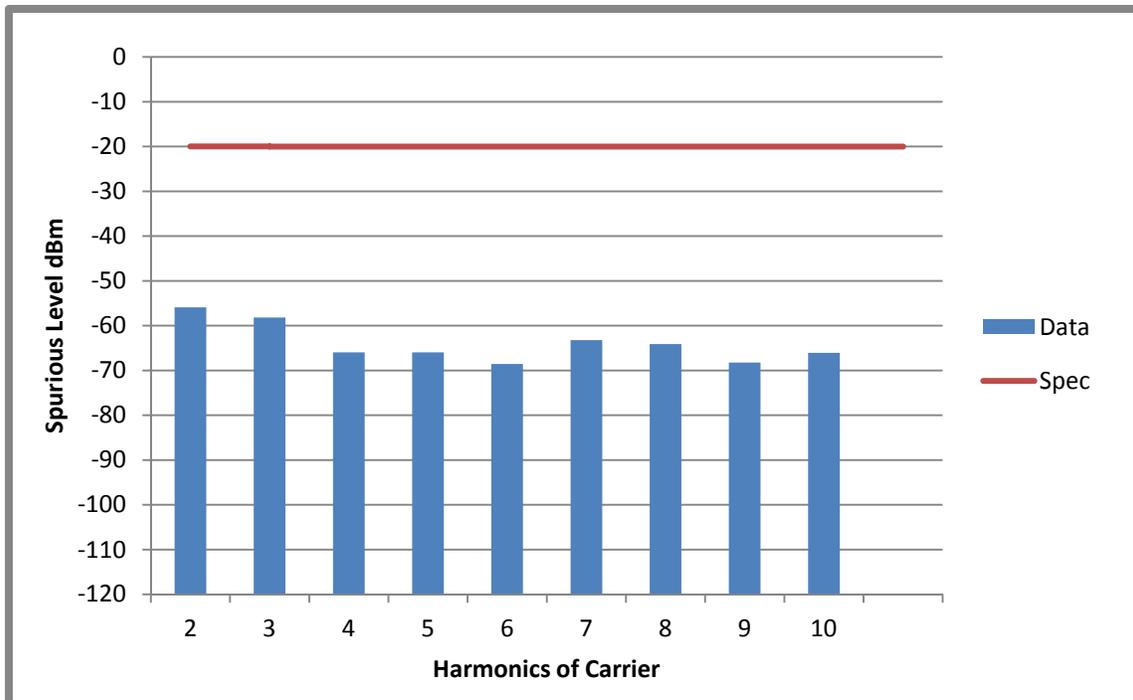


Figure 6F- 17: 48 Watts Harmonic of Carrier 459.1250 MHz, 12.5 kHz Channel Spacing

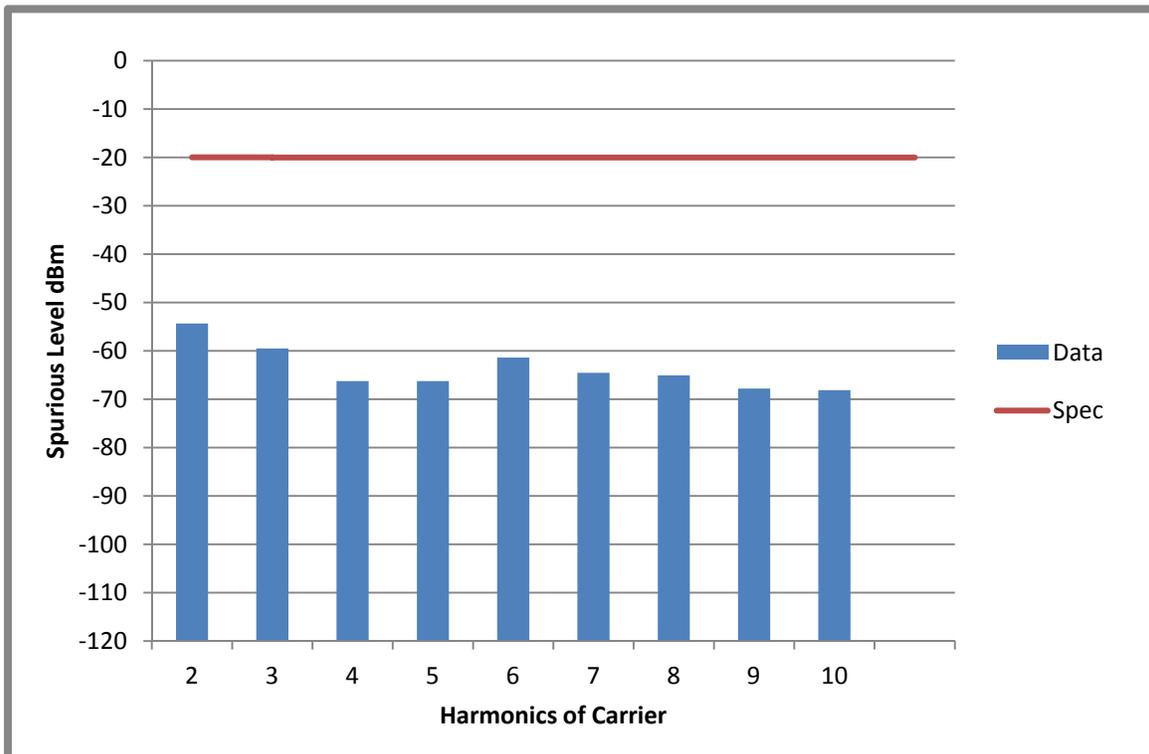


Figure 6F- 18: 48 Watts Harmonic of Carrier 469.9875 MHz, 12.5 kHz Channel Spacing

**EXHIBIT 6G**

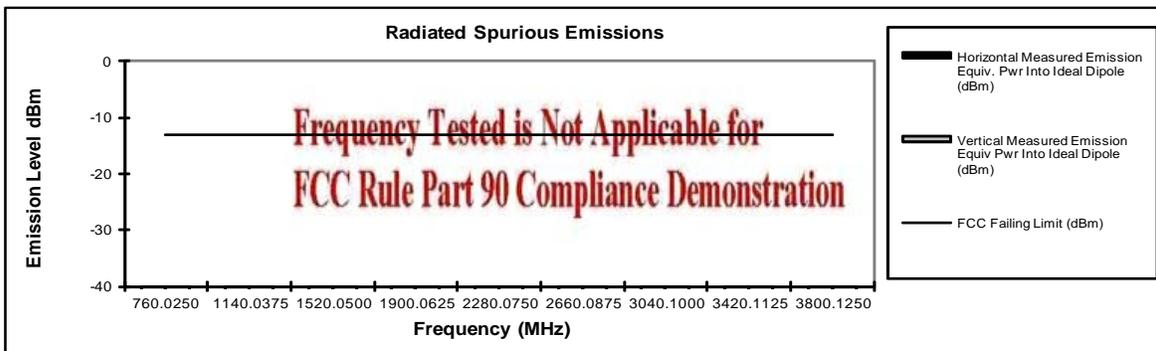
**Radiated Spurious Emissions**

**ANALOG MODE**

**380.0125 MHz**

**Channel Spacing 25kHz | S/N 471TPB0763**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
760.0250	-13	*	*
1140.0375	-13	*	*
1520.0500	-13	*	*
1900.0625	-13	*	*
2280.0750	-13	*	*
2660.0875	-13	*	*
3040.1000	-13	*	*
3420.1125	-13	*	*
3800.1250	-13	*	*



**Figure 6G-1: 48W, 380.0125 MHz, 25 kHz Channel Spacing (For Federal)**

406.2 MHz

Channel Spacing 25kHz | S/N 471TPB0763

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
812.4000	-13	*	*
1218.6000	-13	*	*
1624.8000	-13	*	*
2031.0000	-13	*	*
2437.2000	-13	*	*
2843.4000	-13	*	*
3249.6000	-13	*	*
3655.8000	-13	*	*
4062.0000	-13	*	*

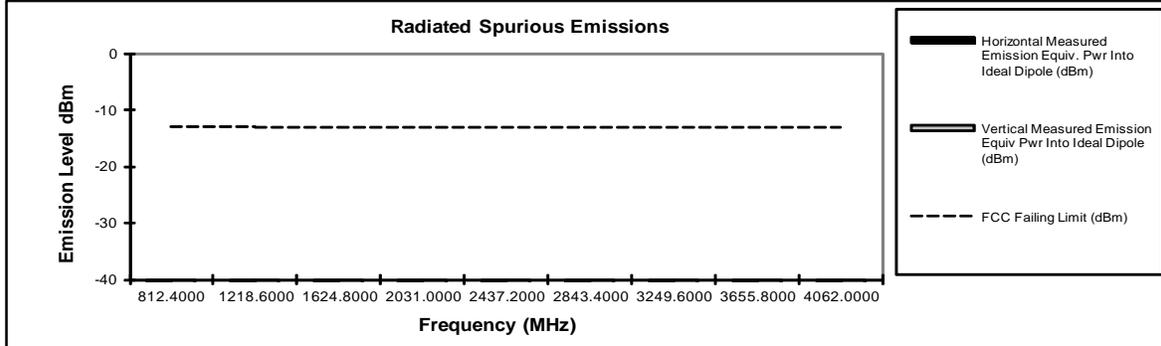


Figure 6G-2: 48W, 406.2 MHz, 25 kHz Channel Spacing (Not for FCC Review)

450.025 MHz

Channel Spacing 25kHz | S/N 471TPB0763

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
900.0500	-13	*	*
1350.0750	-13	*	*
1800.1000	-13	*	*
2250.1250	-13	*	*
2700.1500	-13	*	*
3150.1750	-13	*	*
3600.2000	-13	*	*
4050.2250	-13	*	*
4500.2500	-13	*	*

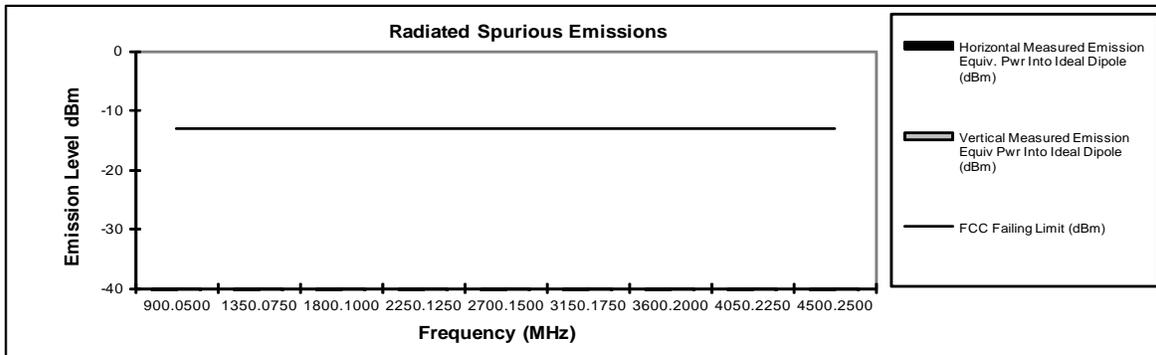
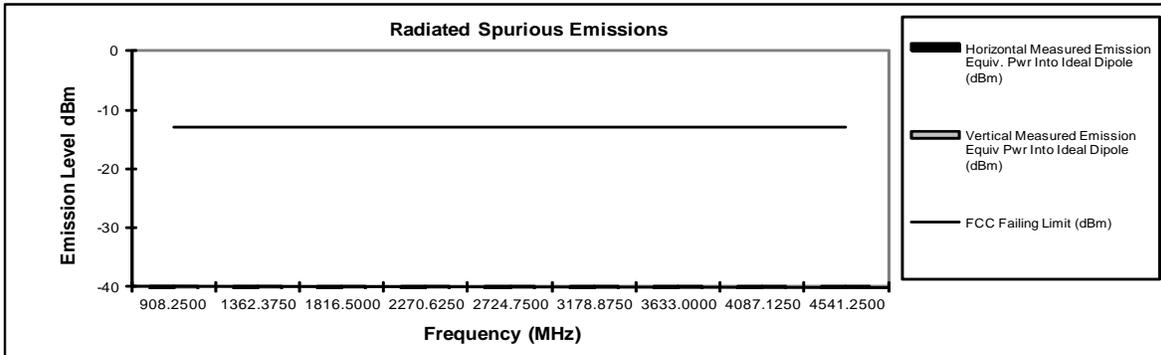


Figure 6G-3: 48W, 450.025 MHz, 25 kHz Channel Spacing (For FCC rule part 74)

**454.125 MHz** **Channel Spacing 25kHz | S/N 471TPB0763**

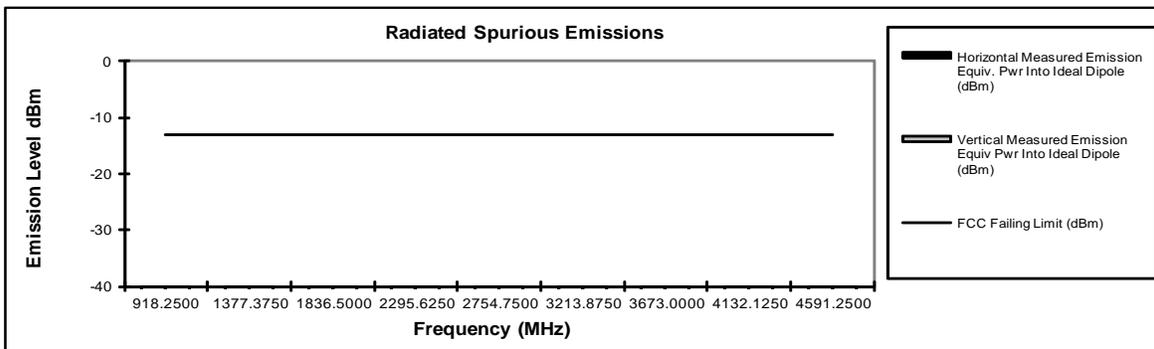
Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
908.2500	-13	*	*
1362.3750	-13	*	*
1816.5000	-13	*	*
2270.6250	-13	*	*
2724.7500	-13	*	*
3178.8750	-13	*	*
3633.0000	-13	*	*
4087.1250	-13	*	*
4541.2500	-13	*	*



**Figure 6G-4:** 48W, 454.125 MHz, 25 kHz Channel Spacing (For FCC rule part 22)

**459.125 MHz** **Channel Spacing 25kHz | S/N 471TPB0763**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
918.2500	-13	*	*
1377.3750	-13	*	*
1836.5000	-13	*	*
2295.6250	-13	*	*
2754.7500	-13	*	*
3213.8750	-13	*	*
3673.0000	-13	*	*
4132.1250	-13	*	*
4591.2500	-13	*	*



**Figure 6G-5:** 48W, 459.125 MHz, 25 kHz Channel Spacing (For FCC rule part 22)

469.9875 MHz

Channel Spacing 25kHz | S/N 471TPB0763

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
939.9750	-13	*	*
1409.9625	-13	*	*
1879.9500	-13	*	*
2349.9375	-13	*	*
2819.9250	-13	*	*
3289.9125	-13	*	*
3759.9000	-13	*	*
4229.8875	-13	*	*
4699.8750	-13	*	*

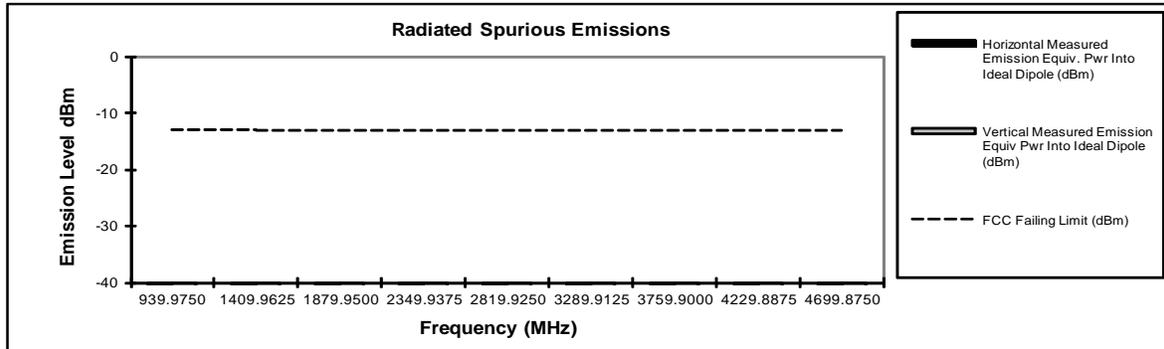


Figure 6G-6: 48W, 469.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)

APCO DIGITAL MODE

380.0125 MHz

Channel Spacing 12.5kHz | S/N 471TPB0763

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
760.0250	-20	*	*
1140.0375	-20	*	*
1520.0500	-20	*	*
1900.0625	-20	*	*
2280.0750	-20	*	*
2660.0875	-20	*	*
3040.1000	-20	*	*
3420.1125	-20	*	*
3800.1250	-20	*	*

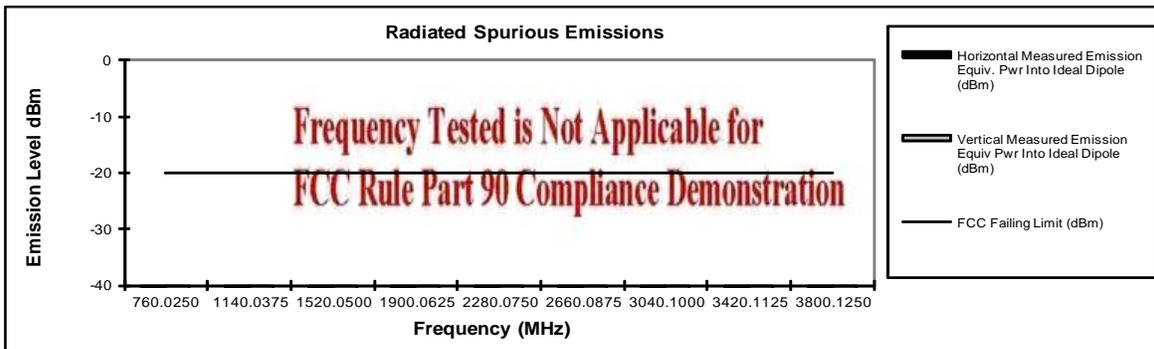


Figure 6G-7: 48W, 380.0125 MHz, 12.5 kHz Channel Spacing

406.2 MHz

Channel Spacing 12.5kHz | S/N 471TPB0763

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
812.4000	-20	*	*
1218.6000	-20	*	*
1624.8000	-20	*	*
2031.0000	-20	*	*
2437.2000	-20	*	*
2843.4000	-20	*	*
3249.6000	-20	*	*
3655.8000	-20	*	*
4062.0000	-20	*	*

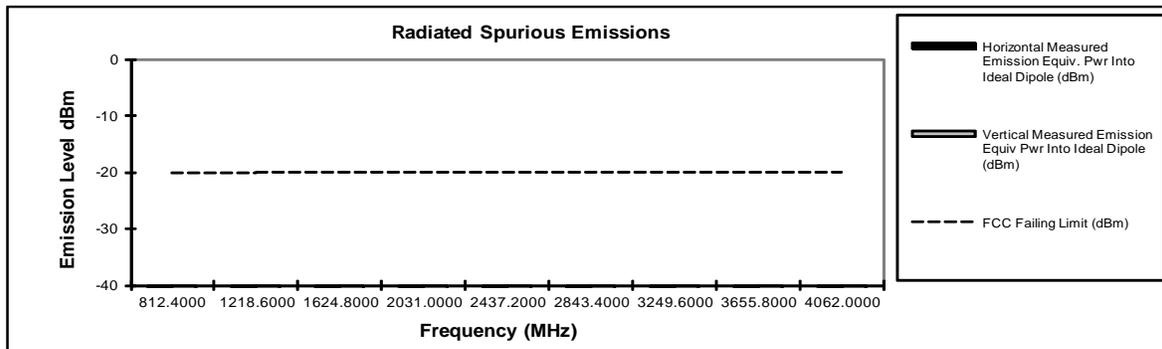


Figure 6G-8: 48W, 406.2 MHz, 12.5 kHz Channel Spacing

450.025 MHz

Channel Spacing 12.5kHz | S/N 471TPB0763

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
900.0500	-20	*	*
1350.0750	-20	*	*
1800.1000	-20	*	*
2250.1250	-20	*	*
2700.1500	-20	*	*
3150.1750	-20	*	*
3600.2000	-20	*	*
4050.2250	-20	*	*
4500.2500	-20	*	*

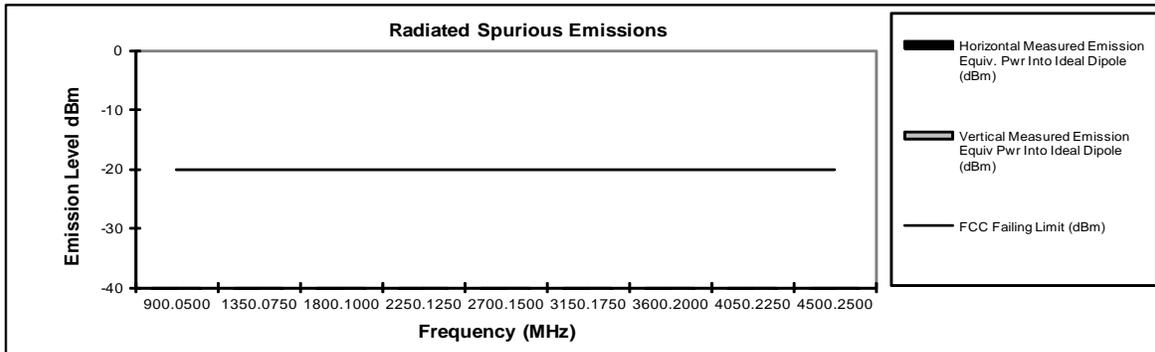


Figure 6G-9: 48W, 450.025 MHz, 12.5 kHz Channel Spacing

454.125 MHz

Channel Spacing 12.5kHz | S/N 471TPB0763

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
908.2500	-20	*	*
1362.3750	-20	*	*
1816.5000	-20	*	*
2270.6250	-20	*	*
2724.7500	-20	*	*
3178.8750	-20	*	*
3633.0000	-20	*	*
4087.1250	-20	*	*
4541.2500	-20	*	*

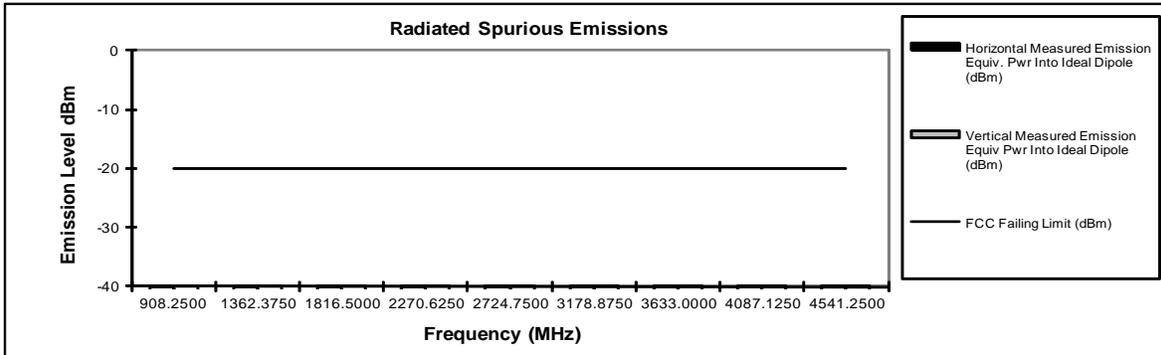


Figure 6G-10: 48W, 454.125 MHz, 12.5 kHz Channel Spacing

459.125 MHz

Channel Spacing 12.5kHz | S/N 471TPB0763

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
918.2500	-20	*	*
1377.3750	-20	*	*
1836.5000	-20	*	*
2295.6250	-20	*	*
2754.7500	-20	*	*
3213.8750	-20	*	*
3673.0000	-20	*	*
4132.1250	-20	*	*
4591.2500	-20	*	*

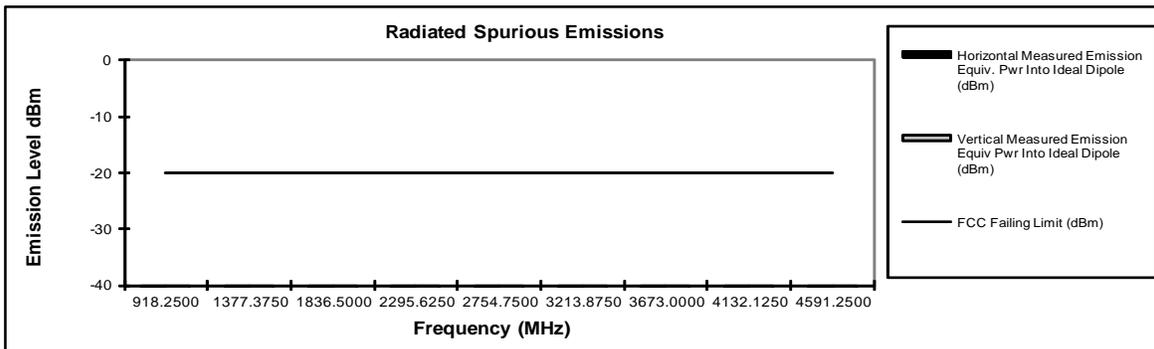


Figure 6G-11: 48W, 459.125 MHz, 12.5 kHz Channel Spacing

469.9875 MHz

Channel Spacing 12.5kHz | S/N 471TPB0763

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
939.9750	-20	*	*
1409.9625	-20	*	*
1879.9500	-20	*	*
2349.9375	-20	*	*
2819.9250	-20	*	*
3289.9125	-20	*	*
3759.9000	-20	*	*
4229.8875	-20	*	*
4699.8750	-20	*	*

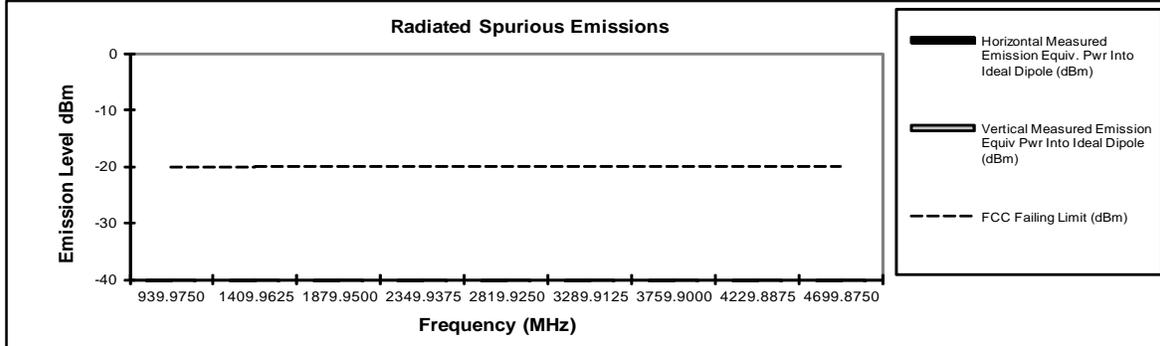


Figure 6G-12: 48W, 469.9875 MHz, 12.5 kHz Channel Spacing

PHASE II (TDMA) MODE

380.0125 MHz

Channel Spacing 12.5kHz | S/N 471TPB0763

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
760.0250	-20	*	*
1140.0375	-20	*	*
1520.0500	-20	*	*
1900.0625	-20	*	*
2280.0750	-20	*	*
2660.0875	-20	*	*
3040.1000	-20	*	*
3420.1125	-20	*	*
3800.1250	-20	*	*

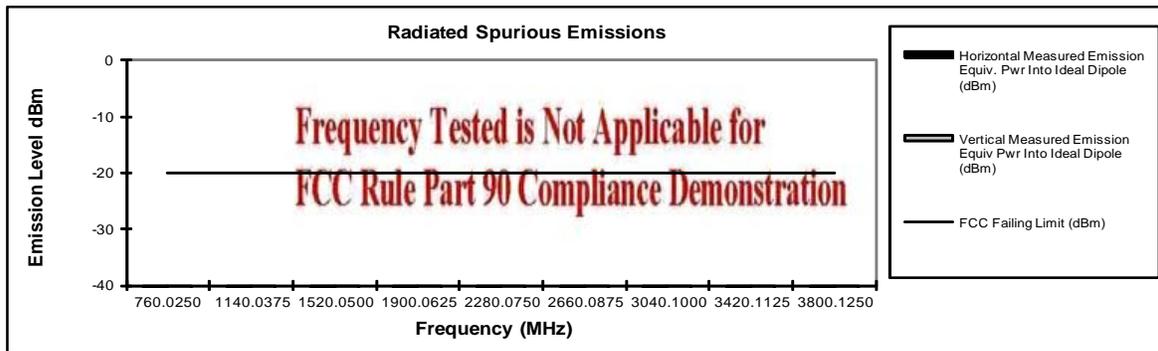


Figure 6G-13: 48W, 380.0125 MHz, 12.5 kHz Channel Spacing

406.2 MHz

Channel Spacing 12.5kHz | S/N 471TPB0763

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
812.4000	-20	*	*
1218.6000	-20	*	*
1624.8000	-20	*	*
2031.0000	-20	*	*
2437.2000	-20	*	*
2843.4000	-20	*	*
3249.6000	-20	*	*
3655.8000	-20	*	*
4062.0000	-20	*	*

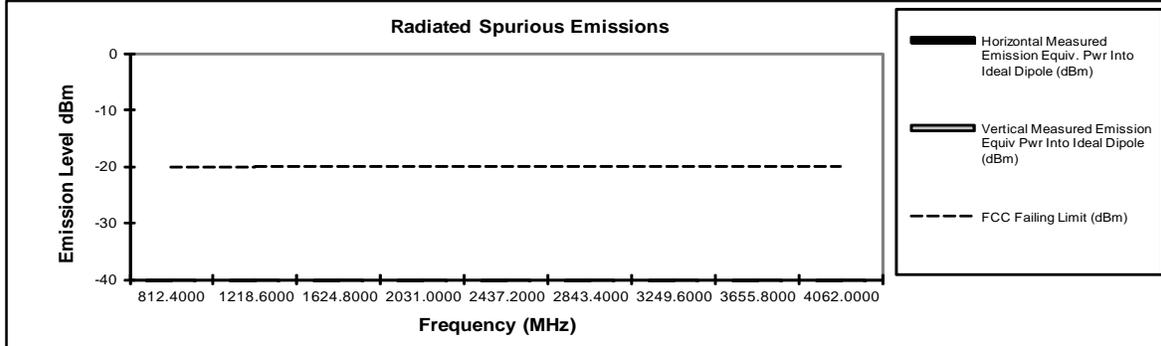


Figure 6G-14: 48W, 406.2 MHz, 12.5 kHz Channel Spacing

450.025 MHz

Channel Spacing 12.5kHz | S/N 471TPB0763

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
900.0500	-20	*	*
1350.0750	-20	*	*
1800.1000	-20	*	*
2250.1250	-20	*	*
2700.1500	-20	*	*
3150.1750	-20	*	*
3600.2000	-20	*	*
4050.2250	-20	*	*
4500.2500	-20	*	*

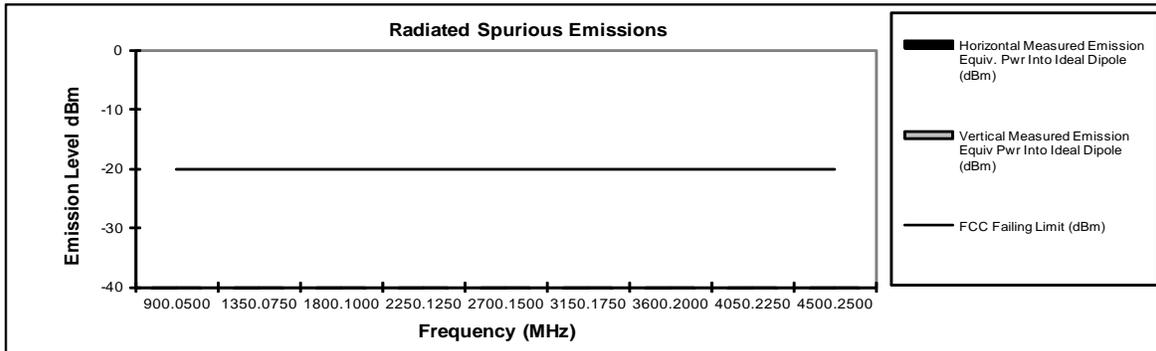


Figure 6G-15: 48W, 450.025 MHz, 12.5 kHz Channel Spacing

**454.125 MHz** **Channel Spacing 12.5kHz | S/N 471TPB0763**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
908.2500	-20	*	*
1362.3750	-20	*	*
1816.5000	-20	*	*
2270.6250	-20	*	*
2724.7500	-20	*	*
3178.8750	-20	*	*
3633.0000	-20	*	*
4087.1250	-20	*	*
4541.2500	-20	*	*

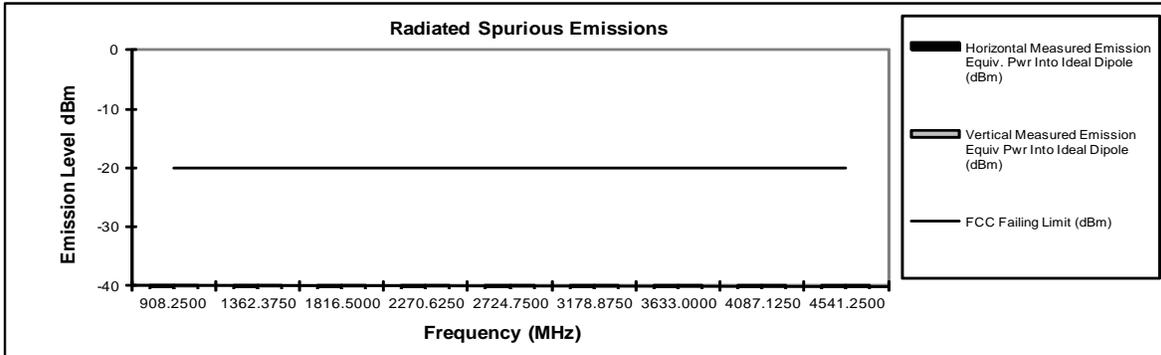


Figure 6G-16: 48W, 454.125 MHz, 12.5 kHz Channel Spacing

**459.125 MHz** **Channel Spacing 12.5kHz | S/N 471TPB0763**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
918.2500	-20	*	*
1377.3750	-20	*	*
1836.5000	-20	*	*
2295.6250	-20	*	*
2754.7500	-20	*	*
3213.8750	-20	*	*
3673.0000	-20	*	*
4132.1250	-20	*	*
4591.2500	-20	*	*

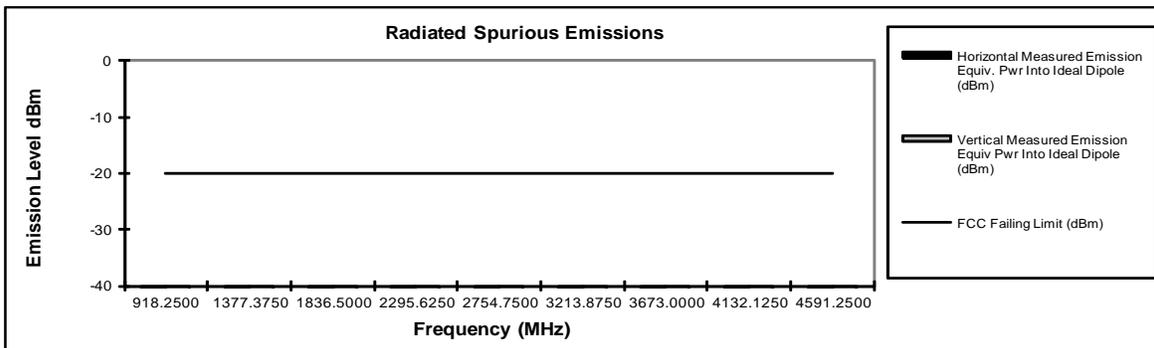


Figure 6G-17: 48W, 459.125 MHz, 12.5 kHz Channel Spacing

469.9875 MHz

Channel Spacing 12.5kHz | S/N 471TPB0763

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
939.9750	-20	*	*
1409.9625	-20	*	*
1879.9500	-20	*	*
2349.9375	-20	*	*
2819.9250	-20	*	*
3289.9125	-20	*	*
3759.9000	-20	*	*
4229.8875	-20	*	*
4699.8750	-20	*	*

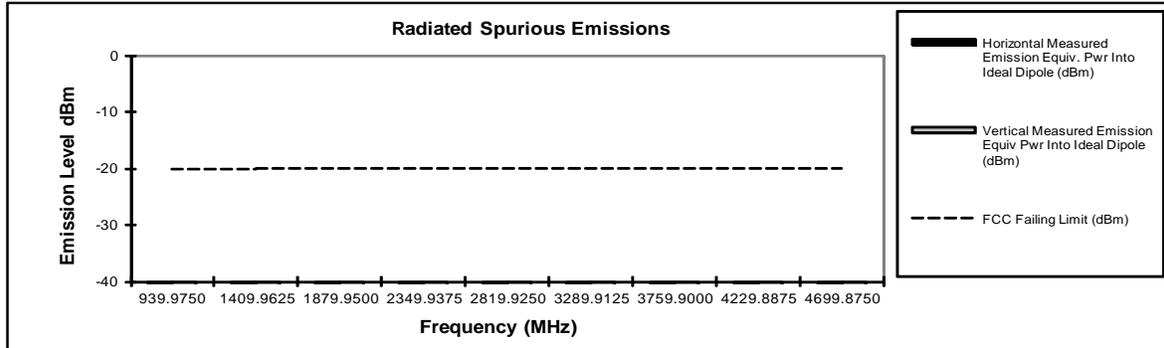
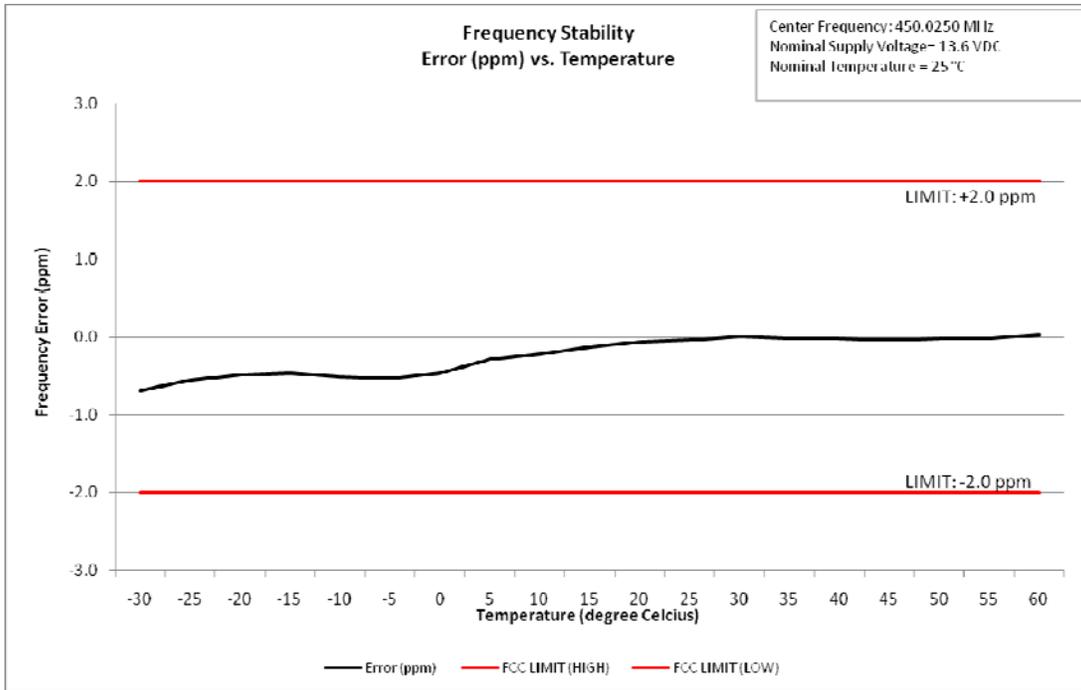
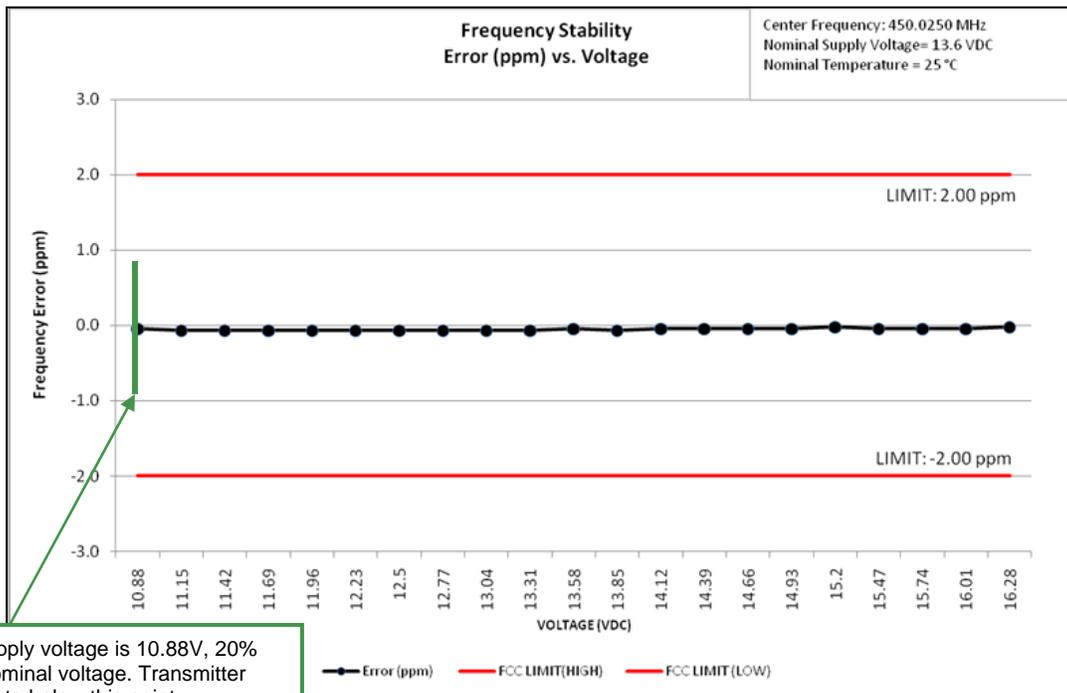


Figure 6G-18: 48W, 469.9875 MHz, 12.5 kHz Channel Spacing

**EXHIBIT 6H**  
**Frequency Stability**



**Figure 6H-1: Frequency Stability vs. Temperature, 450.0250MHz**

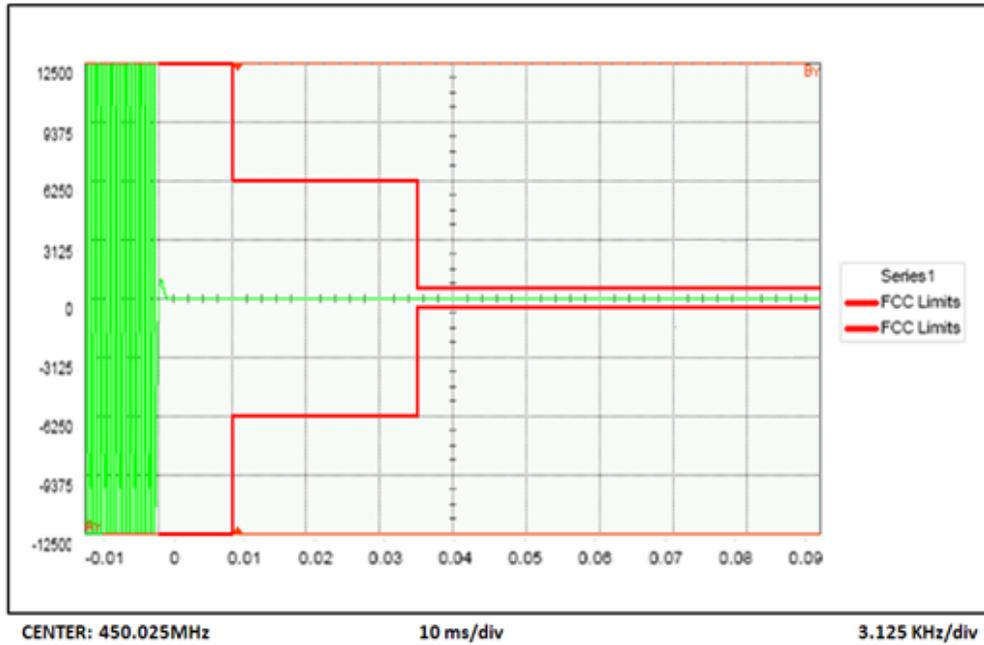


Minimum supply voltage is 10.88V, 20% below the nominal voltage. Transmitter cannot operate below this point.

**Figure 6H-2: Frequency Stability vs. Supply Voltage Change, 450.0250MHz**

**EXHIBIT 6I**  
**Transient Frequency Behavior**

**Analog Mode**



**Figure 6I-1:** Transient Frequency Behavior. 450.0250 MHz, 12.5 kHz Channel Spacing, Key-up Transient



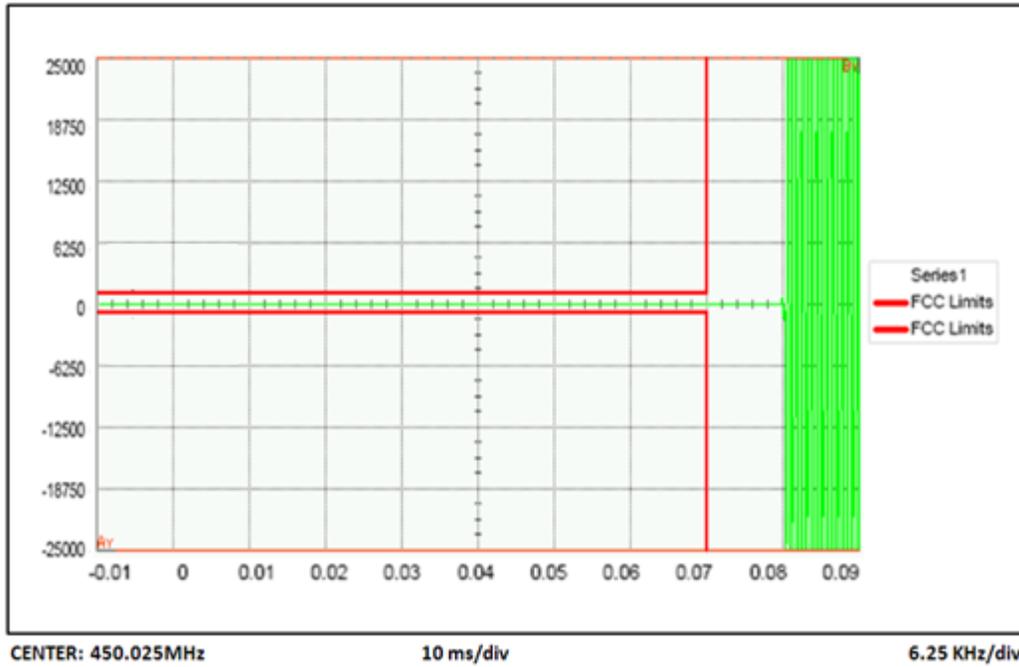


Figure 6I-4: Transient Frequency Behavior. 450.0250 MHz, 25 kHz Channel Spacing, De-Key Transient (For FCC rule part 74)