

**EXHIBIT 6**

**INDEX OF SUBMITTED MEASURED DATA**

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\* The test data is re-used and taken from AZ492FT4896 and AZ492FT7037.

Note: Data was tested to show compliance to RSS102 and RSS119.

**EXHIBIT 6A**

**RF Conducted Power Output Data -- Pursuant 47 CFR 2.1046(a), 2.1033(c) (6), 2.1033(c) (7) and 2.1033(c) (8)**

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device (Q403).

**Frequency = 450.0125 MHz:**

Output RF power	54 Watts
DC Voltage	13.6 Volts
DC Current	7.87 Amps

**Frequency = 450.0125 MHz:**

Output RF power	4 Watts
DC Voltage	13.6 Volts
DC Current	1.91 Amps

**Frequency = 484.9875 MHz**

Output RF power	54 Watts
DC Voltage	13.6 Volts
DC Current	7.79 Amps

**Frequency = 484.9875 MHz:**

Output RF power	4 Watts
DC Voltage	13.6 Volts
DC Current	2.00 Amps

**Frequency = 511.9875 MHz:**

Output RF power	48 Watts
DC Voltage	13.6 Volts
DC Current	7.44 Amps

**Frequency = 511.9875 MHz:**

Output RF power	4 Watts
DC Voltage	13.6 Volts
DC Current	2.06 Amps

**Frequency = 519.9875 MHz:**

Output RF power	30 Watts
DC Voltage	13.6 Volts
DC Current	5.32 Amps

**Frequency = 469.9875 MHz:**

Output RF power	4 Watts
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DC Voltage	13.6 Volts
DC Current	2.01 Amps

**Frequency =764.0125 MHz:**

Output RF power	2 Watts
DC Voltage	13.6 Volts
DC Current	1.9 A

**Frequency =764.0875 MHz:**

Output RF power	3.5 Watts
DC Voltage	13.6 Volts
DC Current	2.4 A

Output RF power	18 Watts
DC Voltage	13.6 Volts
DC Current	5.35 A

Output RF power	36 Watts
DC Voltage	13.6 Volts
DC Current	7.94 A

**Frequency =823.9875 MHz:**

Output RF power	3.5 Watts
DC Voltage	13.6 Volts
DC Current	2.52 A

Output RF power	21 Watts
DC Voltage	13.6 Volts
DC Current	5.9 A

Output RF power	42 Watts
DC Voltage	13.6 Volts
DC Current	8.95 A

**Frequency =868.9875 MHz:**

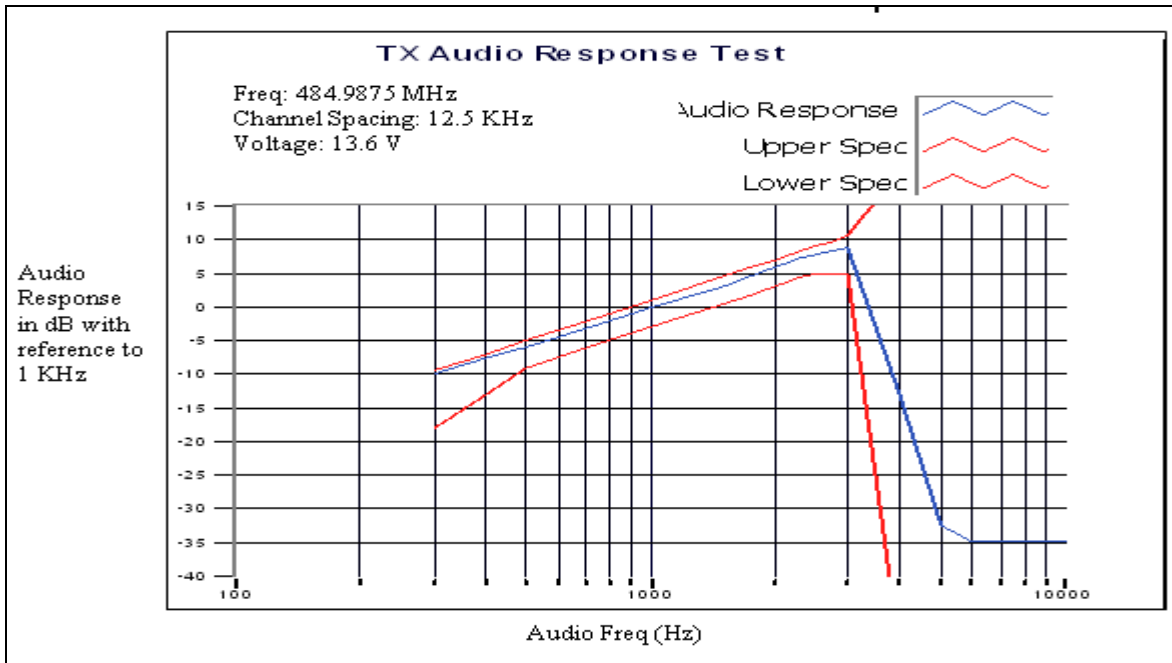
Output RF power	3.5 Watts
DC Voltage	13.6 Volts
DC Current	2.22 A

Output RF power	21 Watts
DC Voltage	13.6 Volts
DC Current	5.15 A

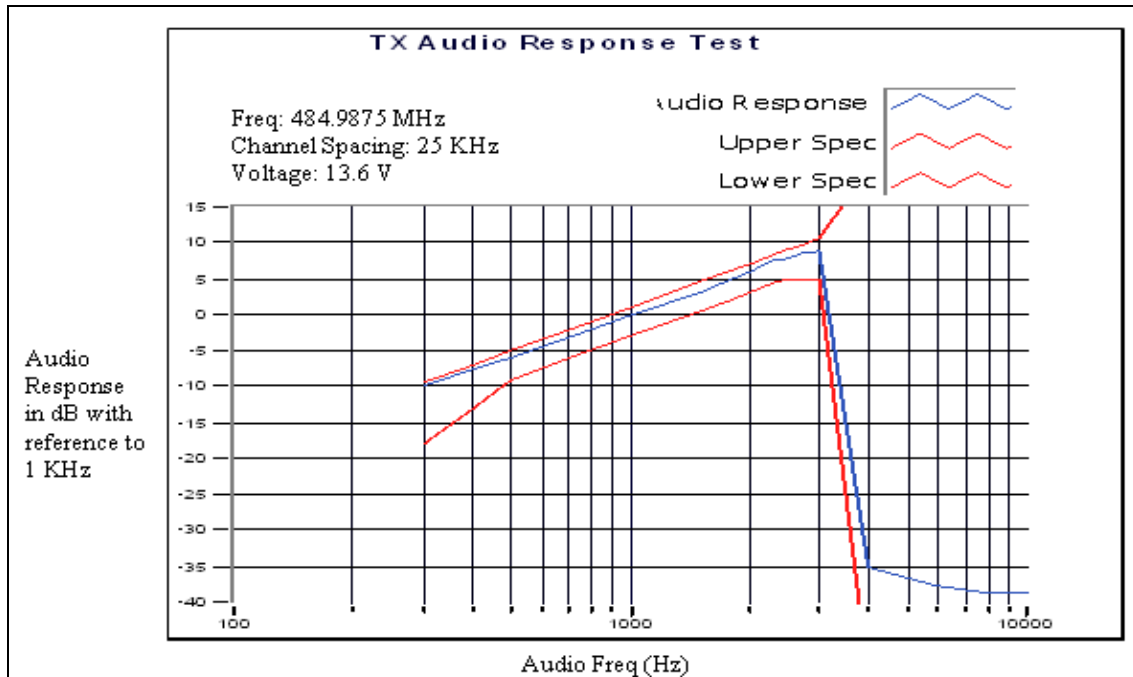
Output RF power	42 Watts
DC Voltage	13.6 Volts
DC Current	7.8 A

**EXHIBIT 6B**

**Transmit Audio Response -- Pursuant 47 CFR 2.1047 and 2.1033(c) (13)**



**Figure 6B-1: 12.5 kHz Channel Spacing, 484.9875 MHz**



**Figure 6B-2: 25 kHz Channel Spacing, 484.9875 MHz (Not for FCC Review)**

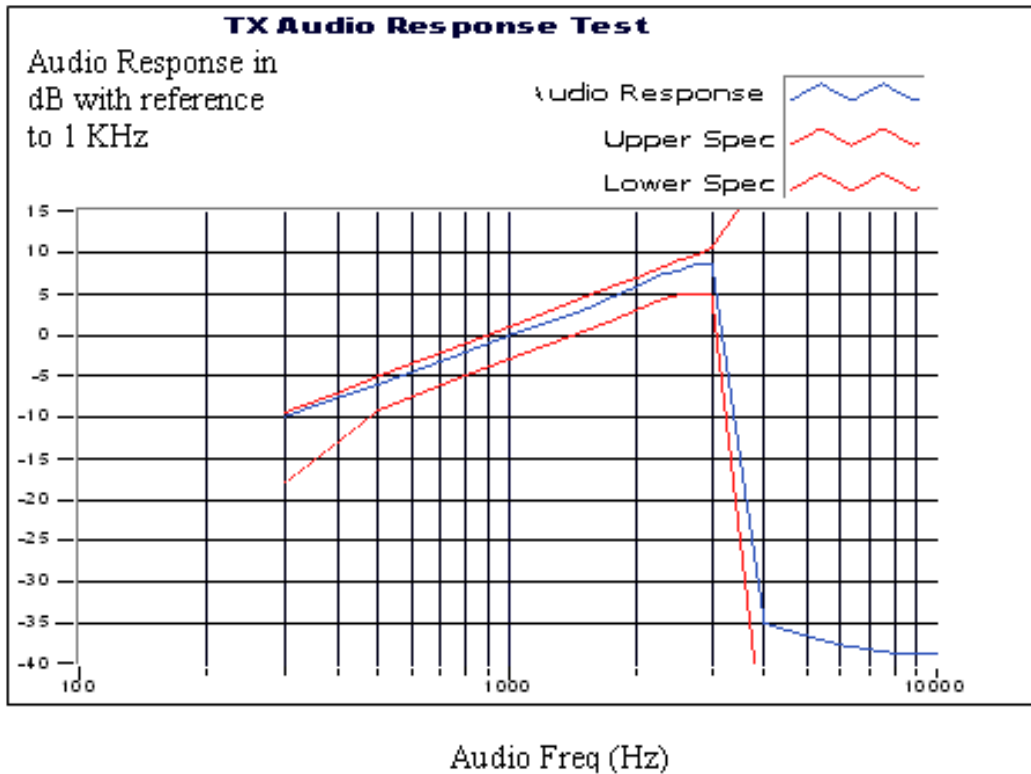


Figure 6B-3: 12.5 kHz Channel Spacing, 860.0125 MHz

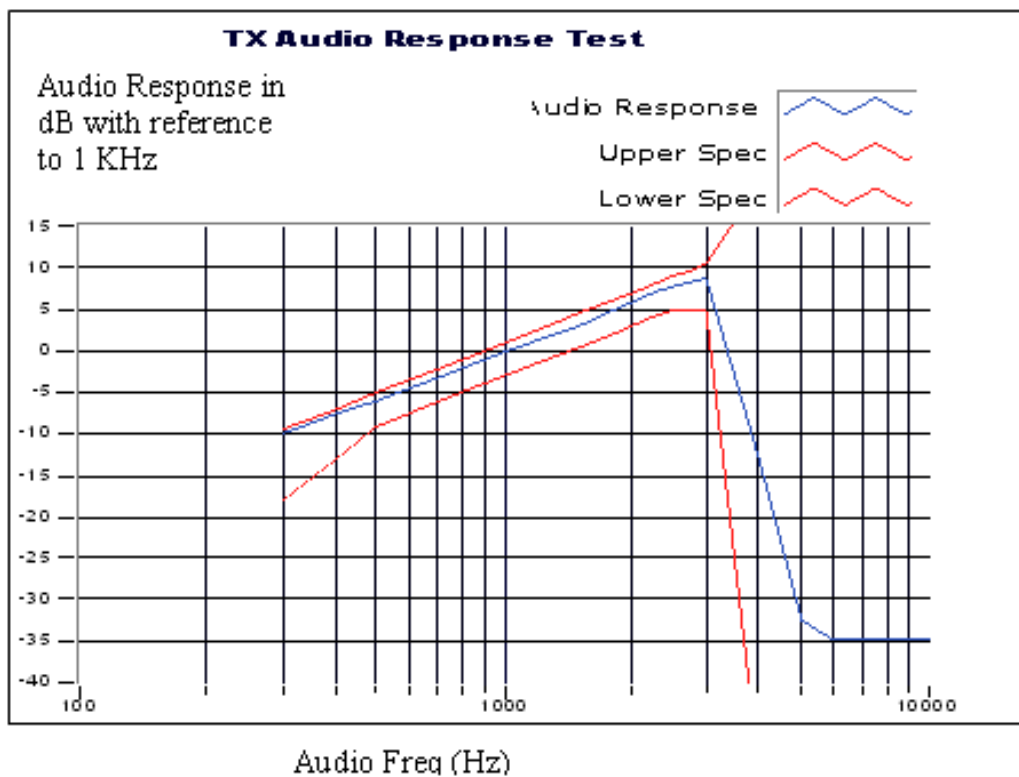


Figure 6B-4: 25 kHz Channel Spacing, 860.0125 MHz

EXHIBIT 6C

Audio Low Pass Filter Response -- Pursuant 47 CFR 2.1047 and 2.1033(c) (13)

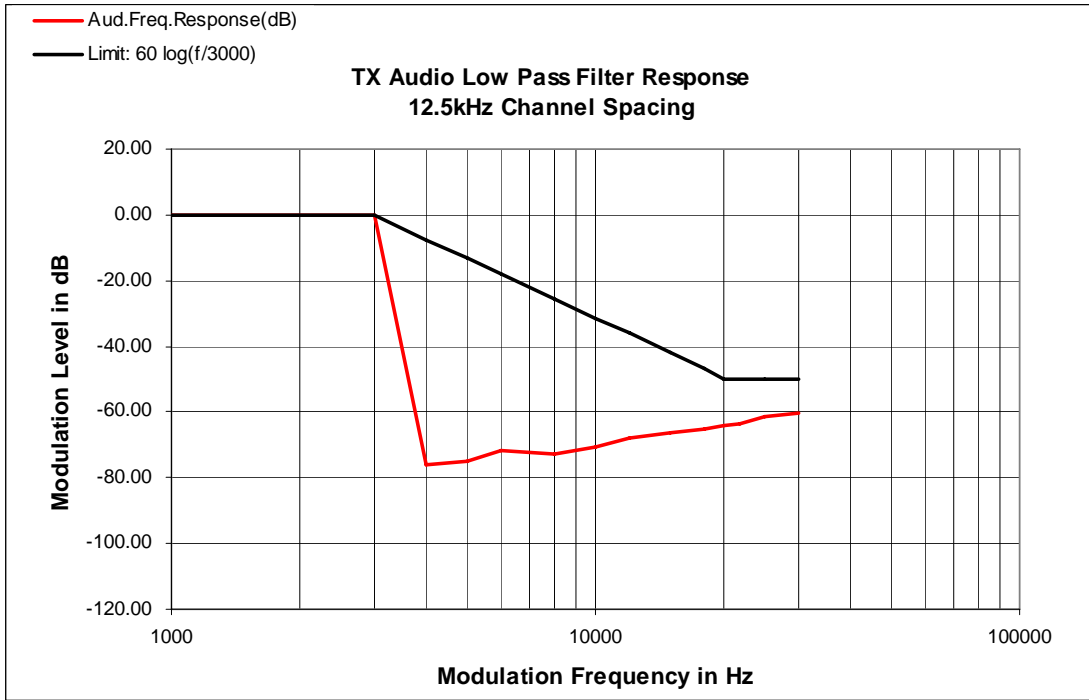


Figure 6C-1: 12.5 kHz Channel Spacing, 425.0125 MHz

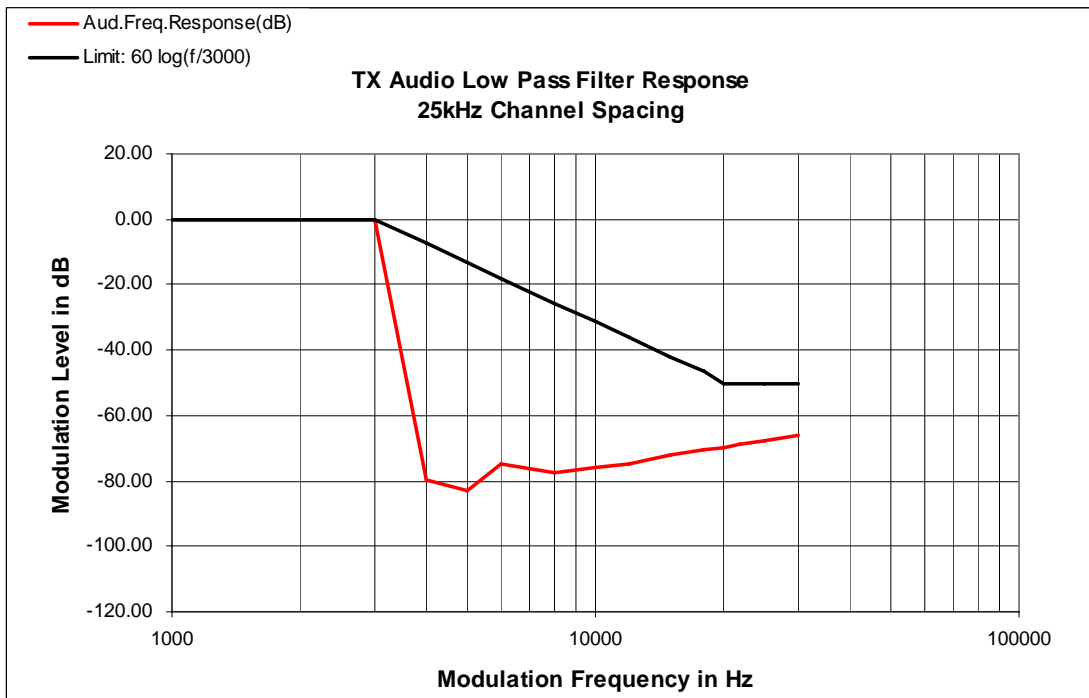


Figure 6C-1: 25 kHz Channel Spacing, 425.0125 MHz (Not for FCC Review)

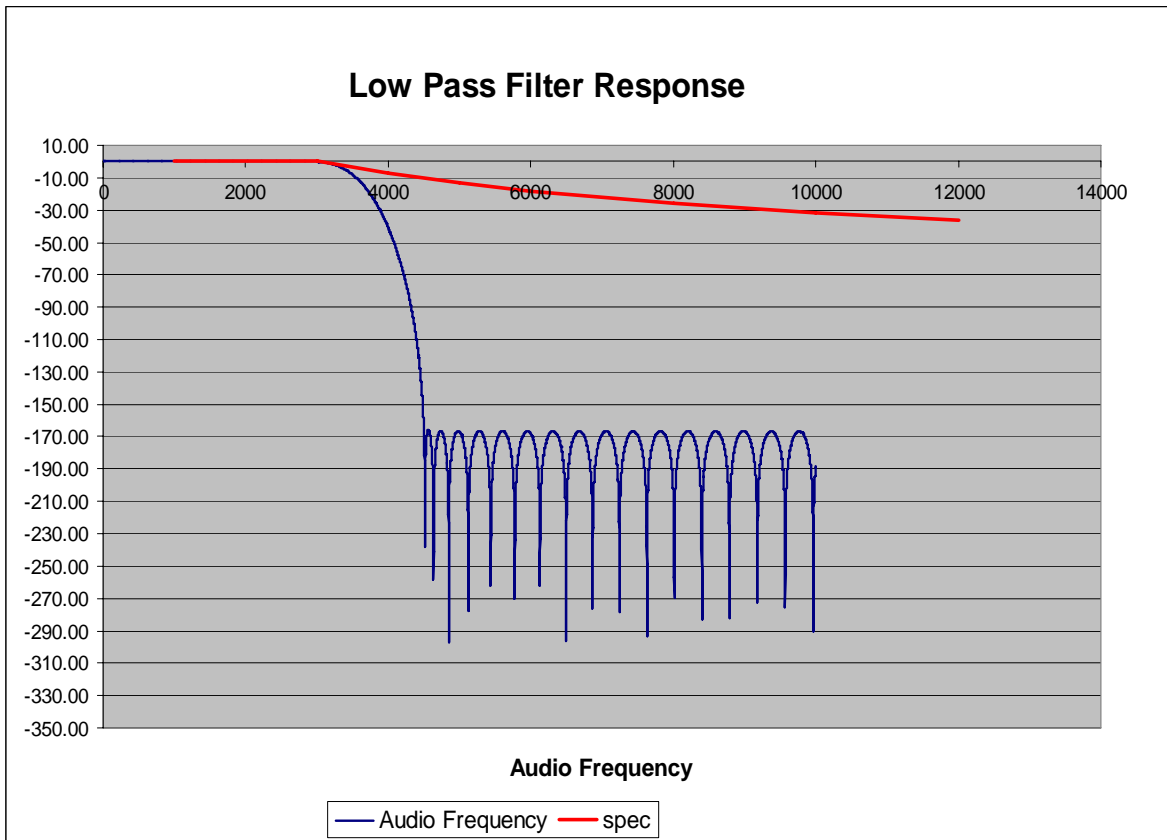


Figure 6C-3: 1860.0125 MHz, Transmit Audio Low Pass Filter Response

EXHIBIT 6D

Modulation Limiting -- Pursuant 47 CFR 2.1047 and 2.1033(c) (13)

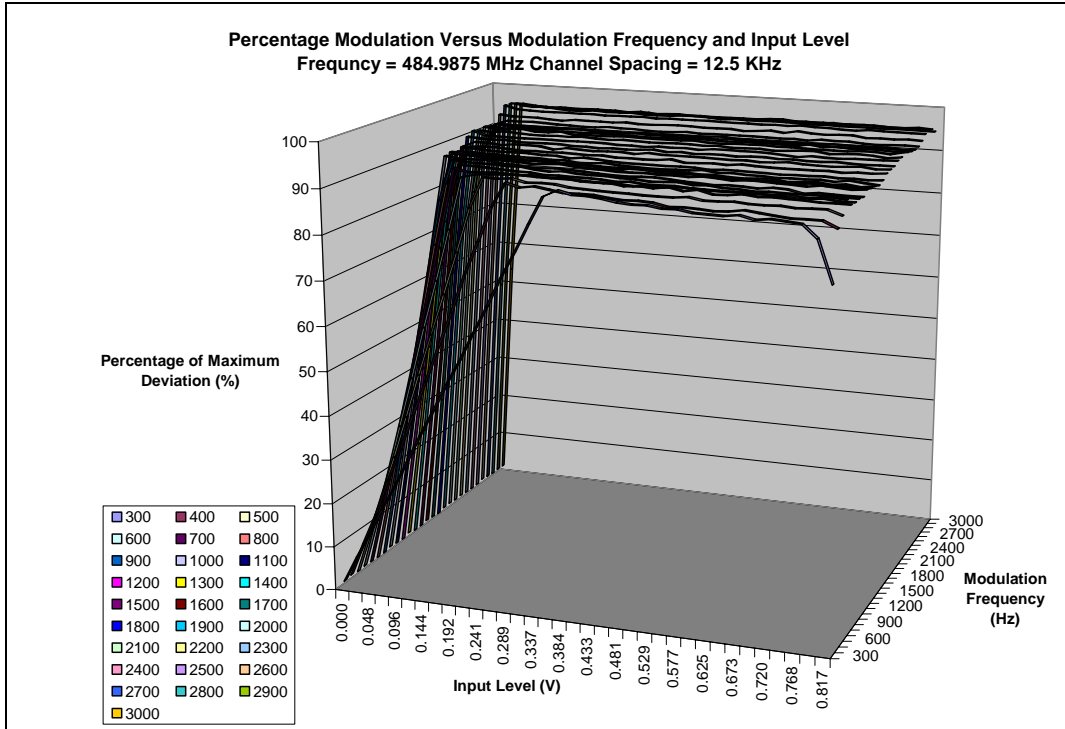


Figure 6D-1: The Percentage of Max. Deviation on the "Z" axis is referenced to 2.5 kHz for 12.5 kHz bandwidth

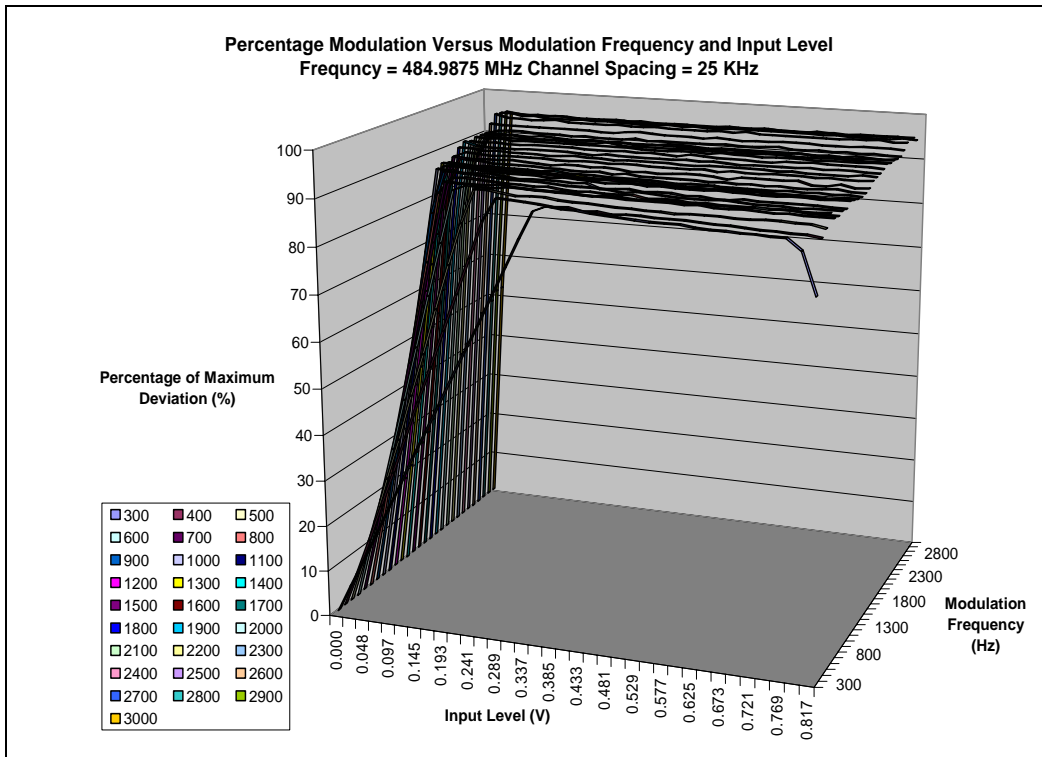




Figure 6D-2: The Percentage of Max. Deviation on the “Z” axis is referenced to 5.0 kHz for 25 kHz bandwidth

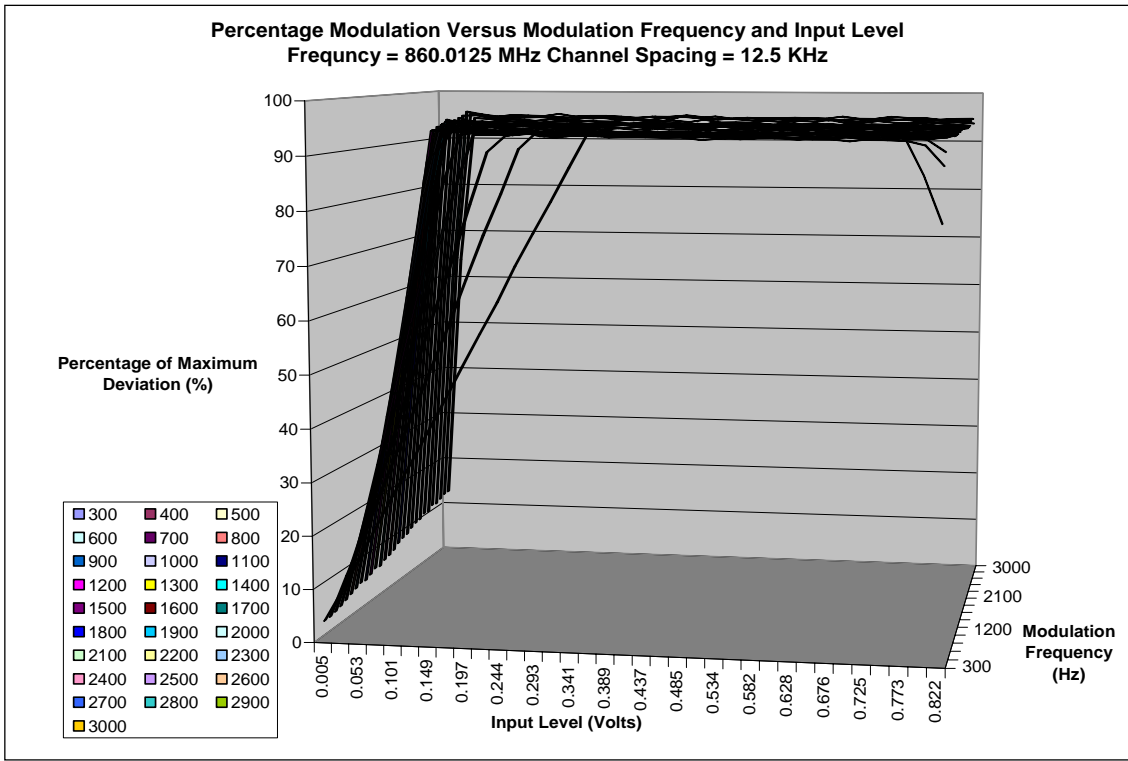


Figure 6D-3: The Percentage of Max. Deviation on the “Z” axis is referenced to 2.5 kHz for 12.5 kHz bandwidth

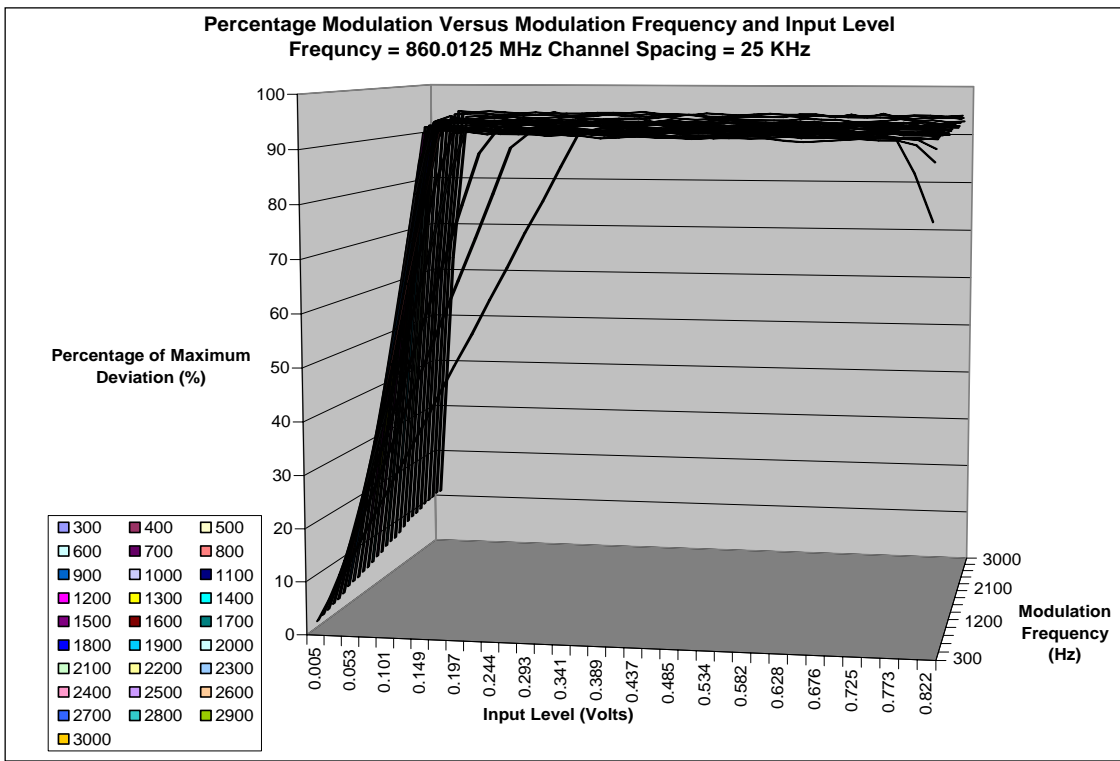


Figure 6D-4: The Percentage of Max. Deviation on the “Z” axis is referenced to 5.0 kHz for 25 kHz bandwidth

**EXHIBIT 6E**

**Occupied Bandwidth Data** -- Pursuant 47 CFR 2.1049, 90.210(g) and 90.691

**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:  $BW = \text{Bandwidth}$   
 $M = \text{Maximum modulating frequency}$   
 $D = \text{Deviation}$**

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, 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, 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, Digital 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

Digital Modulation (20 kHz Channelization, 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-7

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.

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

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 +600 Hz. 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).

Occupied Bandwidth Data -- Pursuant 47 CFR 2.1049, 90.210(g) and 90.691

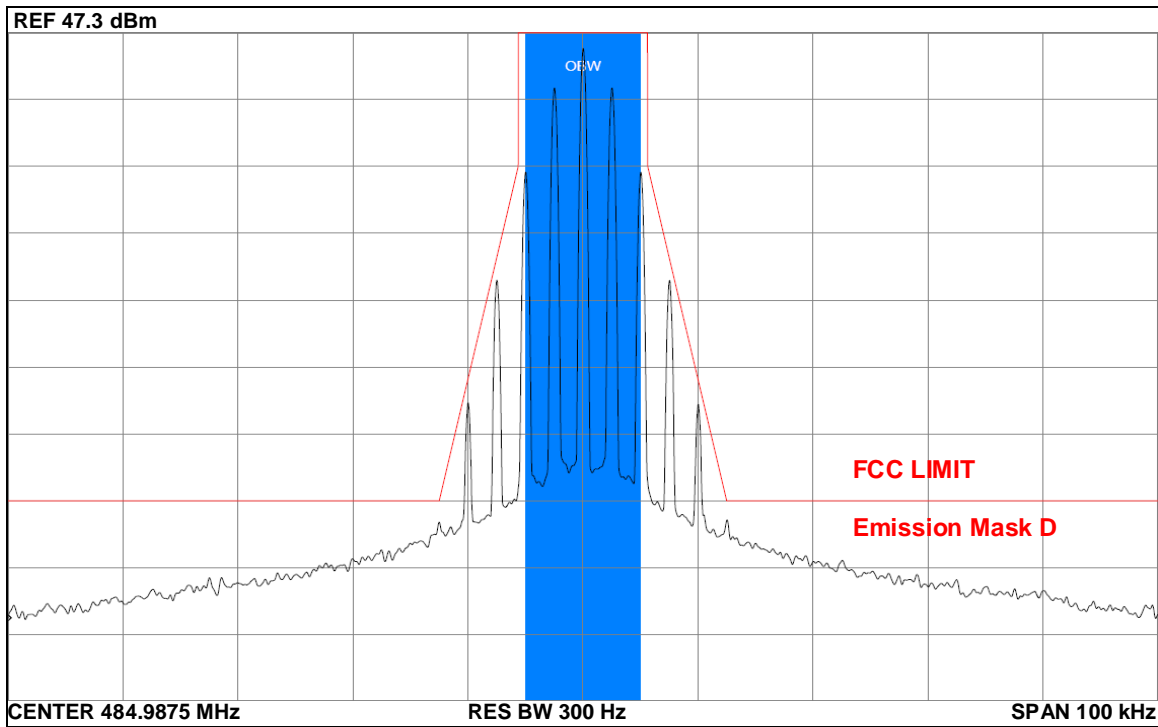


Figure 6E-1: 12.5 kHz Channel Spacing, 484.9875 MHz, Analog Voice, Mask D 11K0F3E

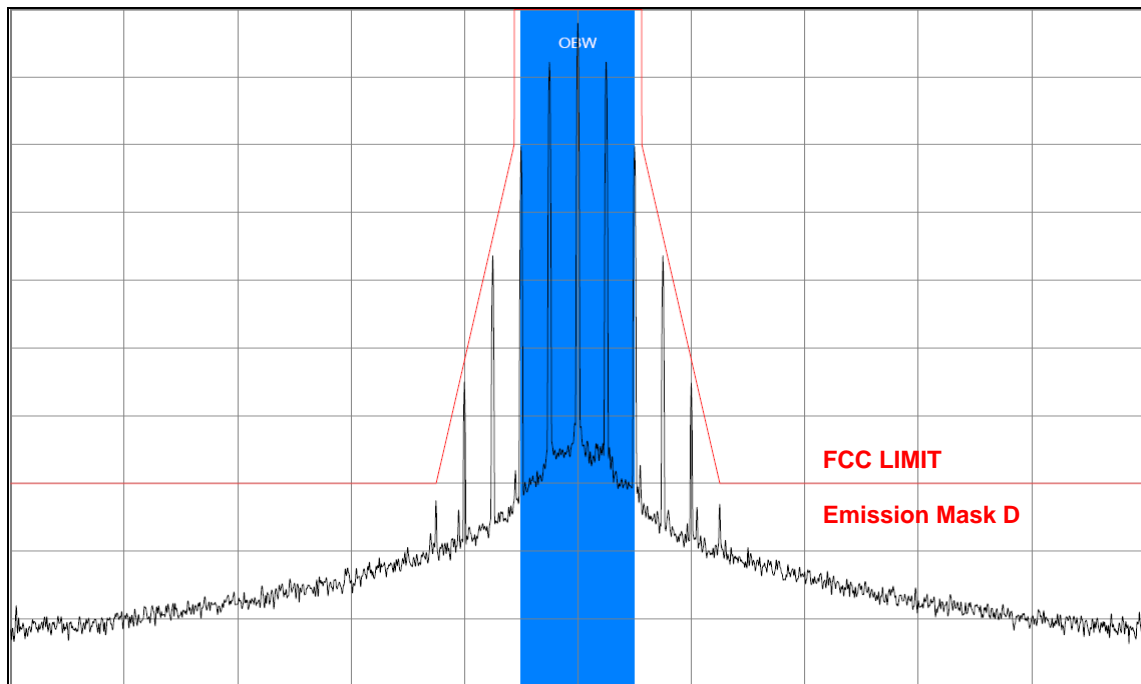


Figure 6E-2: 12.5 kHz Channel Spacing, 860.0125 MHz, Analog Voice, 11K0F3E

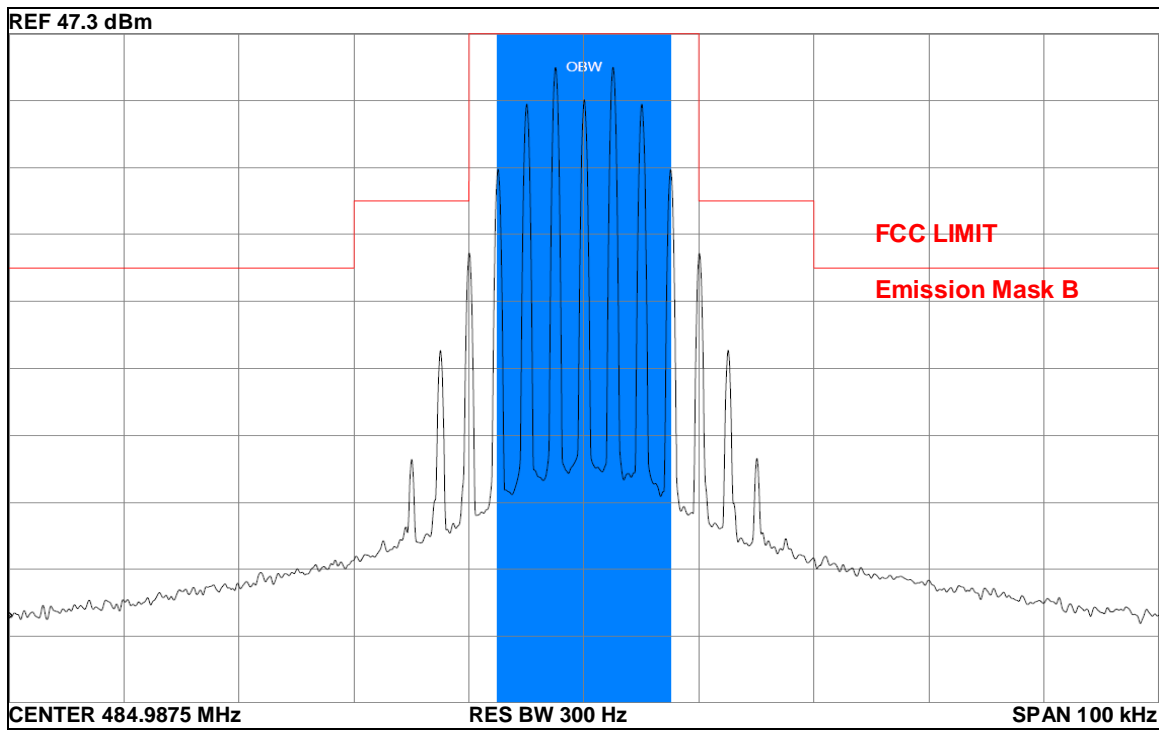


Figure 6E-3: 25 kHz Channel Spacing, 484.9875 MHz, Analog Voice, Mask B 16K0F3E (Not for FCC Review)

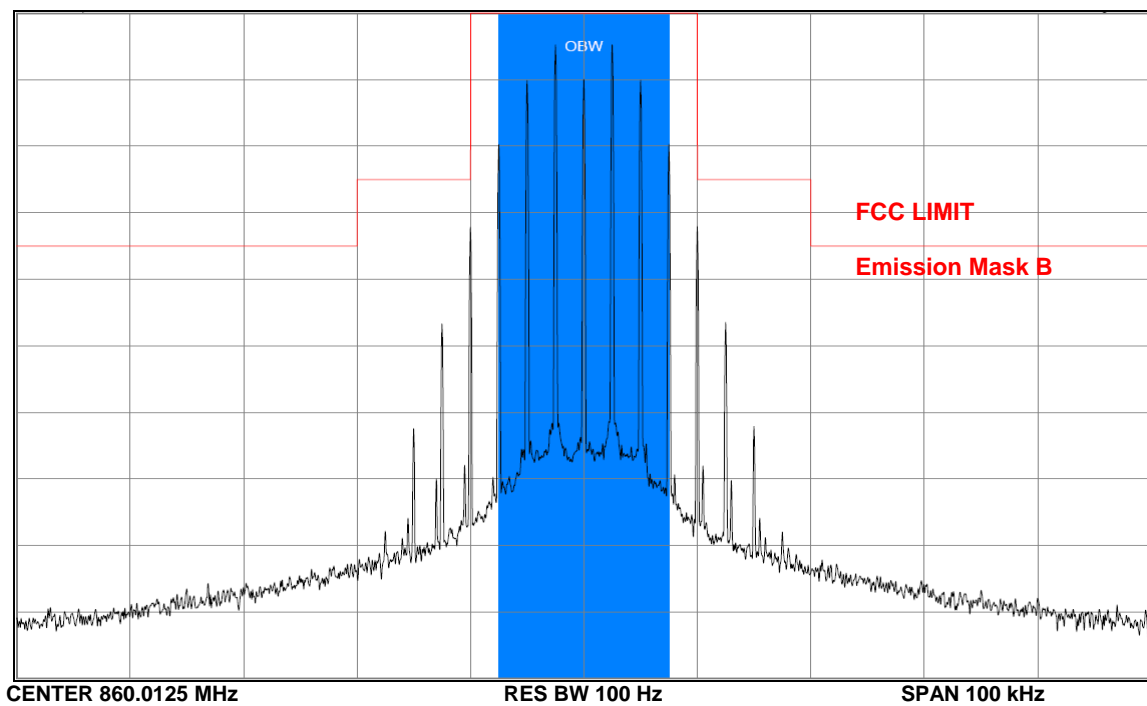


Figure 6E-4: 12.5 kHz Channel Spacing, 860.0125 MHz, Analog Voice, Mask B 16K0F3E

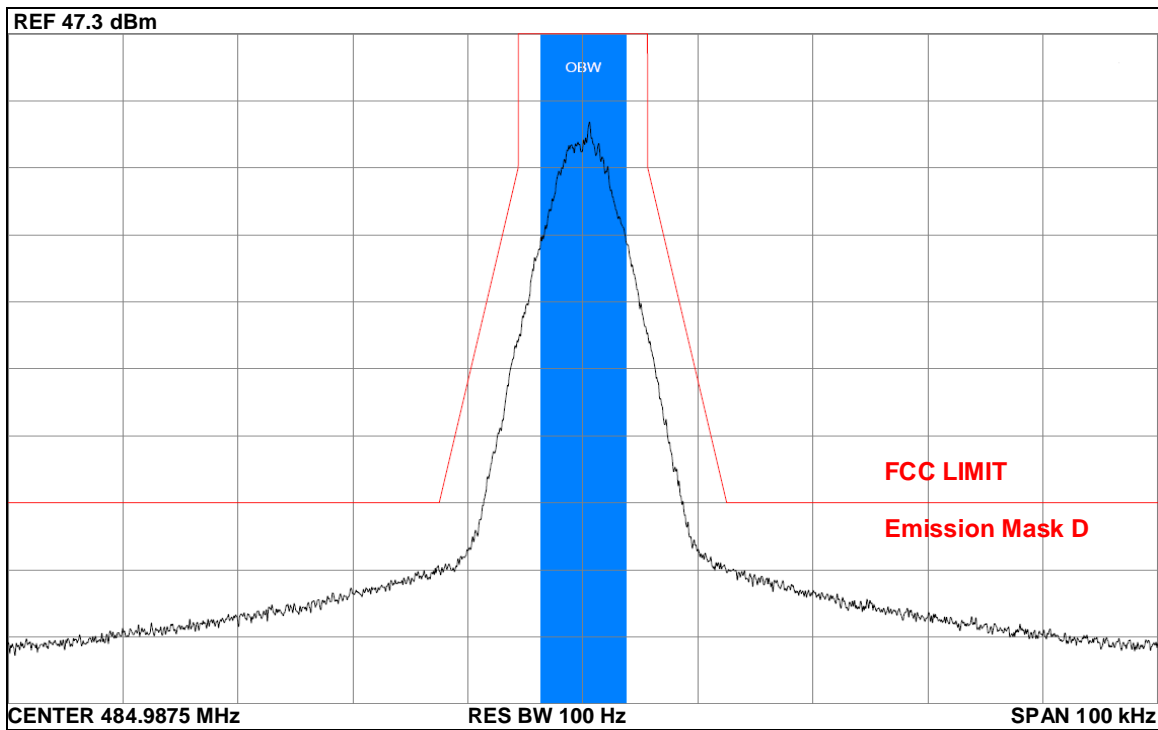


Figure 6E-5: 12.5 kHz Channel Spacing, 484.9875 MHz, Digital Data, Mask D 8K10F1D

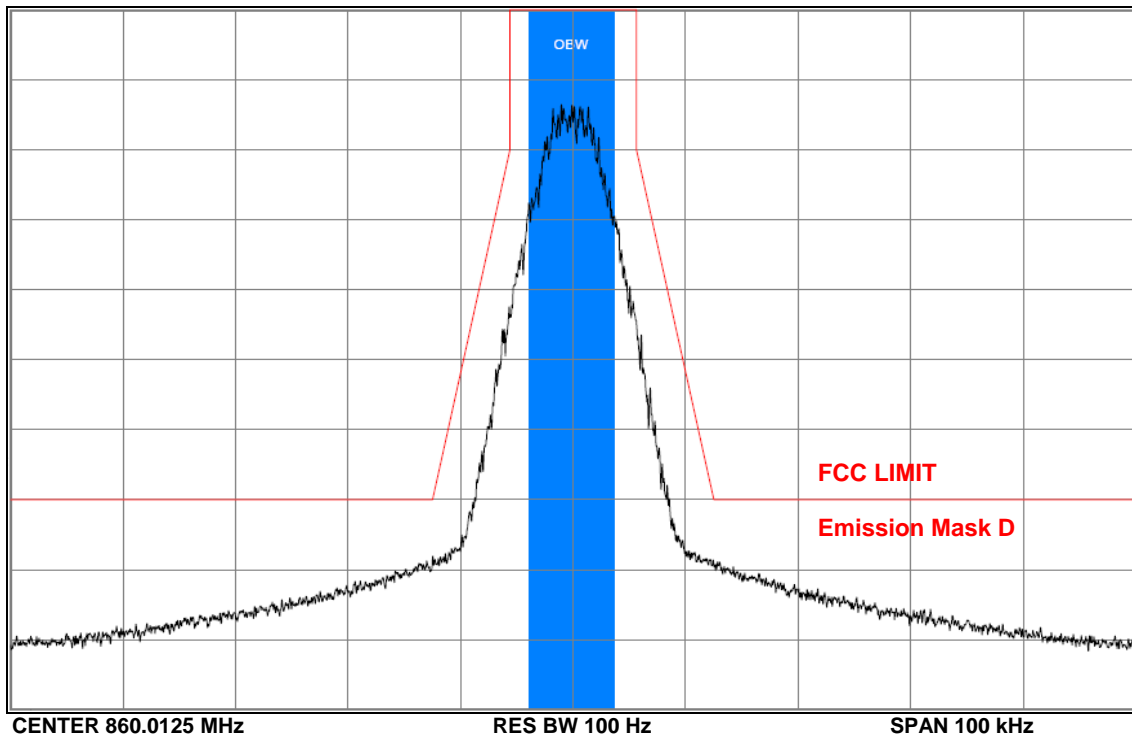


Figure 6E-6: 12.5 kHz Channel Spacing, 860.0125 MHz, Digital Data, Mask D 8K10F1D

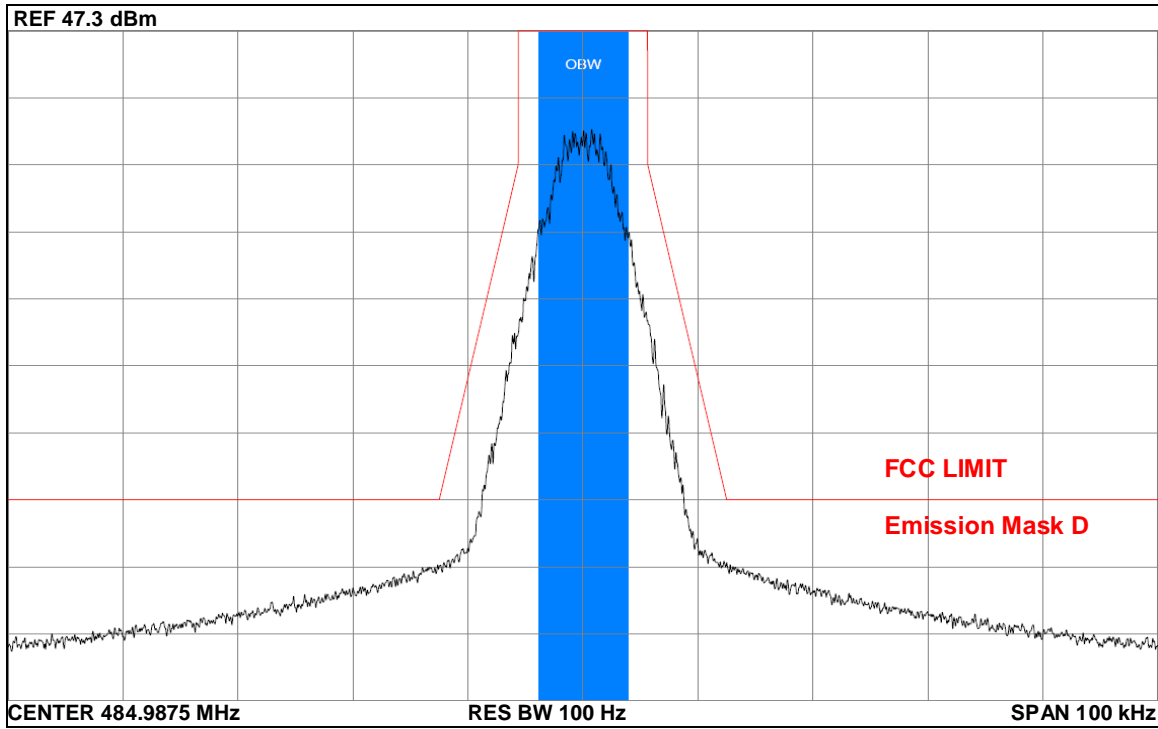


Figure 6E-7: 12.5 kHz Channel Spacing, 484.9875 MHz, Digital Voice, Mask D 8K10F1E

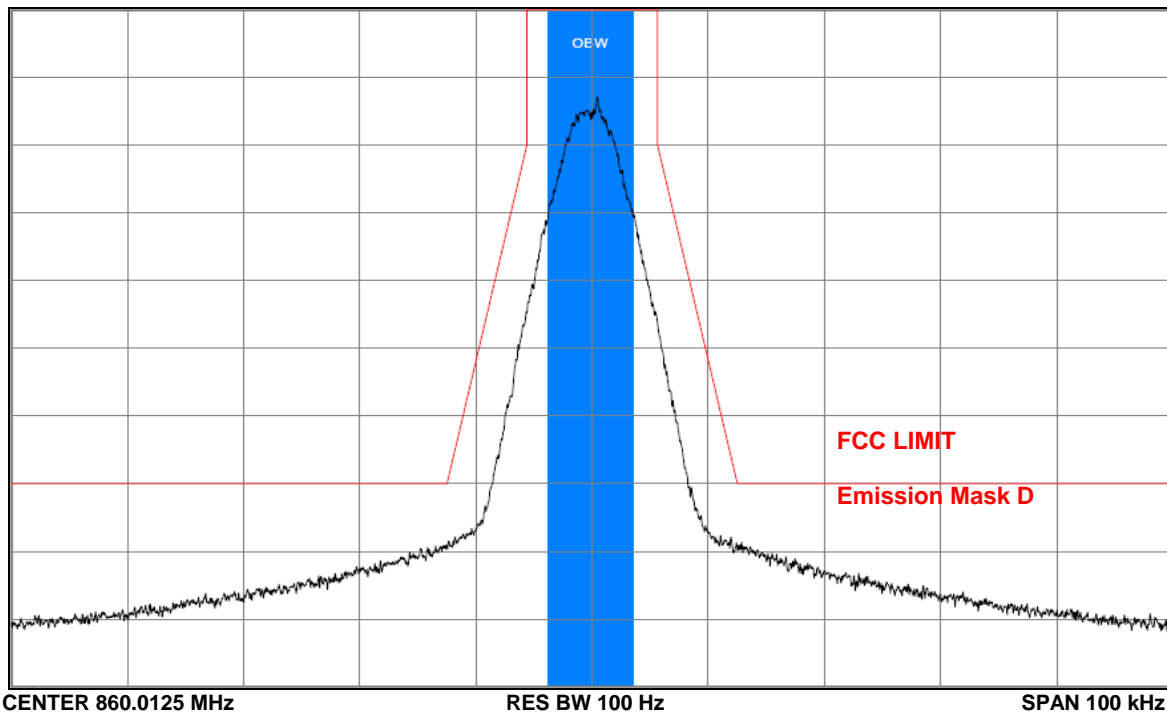


Figure 6E-8: 12.5 kHz Channel Spacing, 860.0125 MHz, Digital Voice, Mask D 8K10F1E



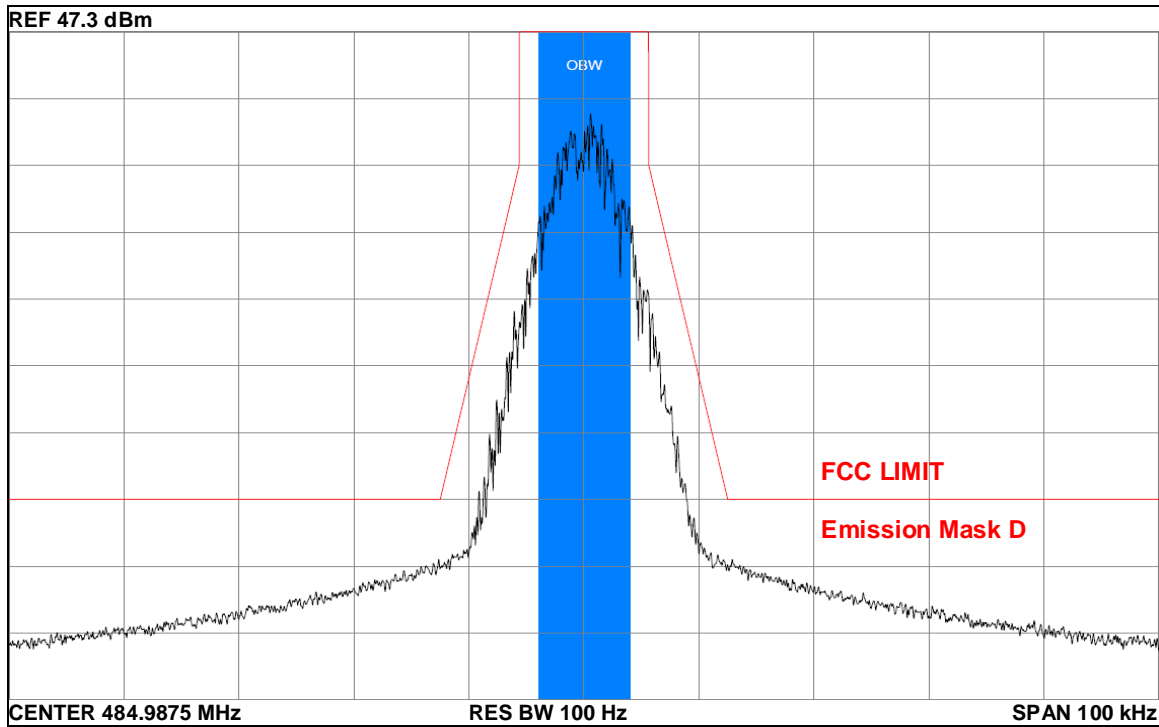


Figure 6E-9: 12.5 kHz Channel Spacing, 484.9875 MHz, Digital TDMA, Mask D 8K10F1W

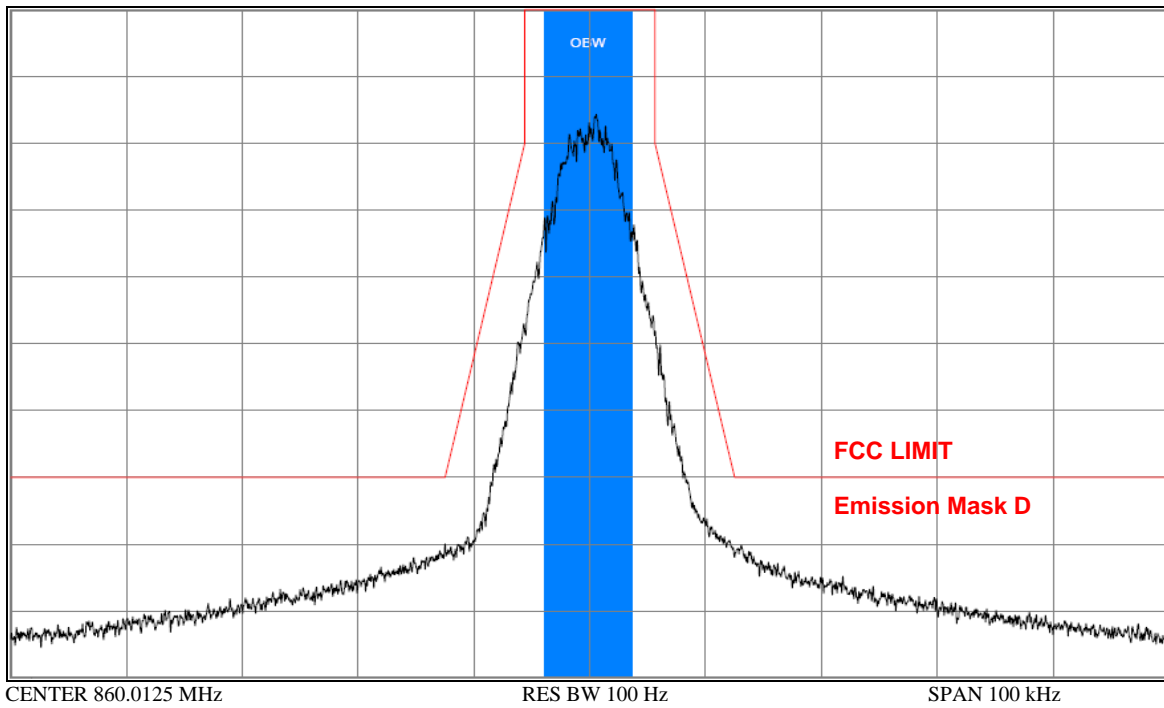


Figure 6E-10: 12.5 kHz Channel Spacing, 860.0125 MHz, Digital TDMA, MASK D 8K10F1W

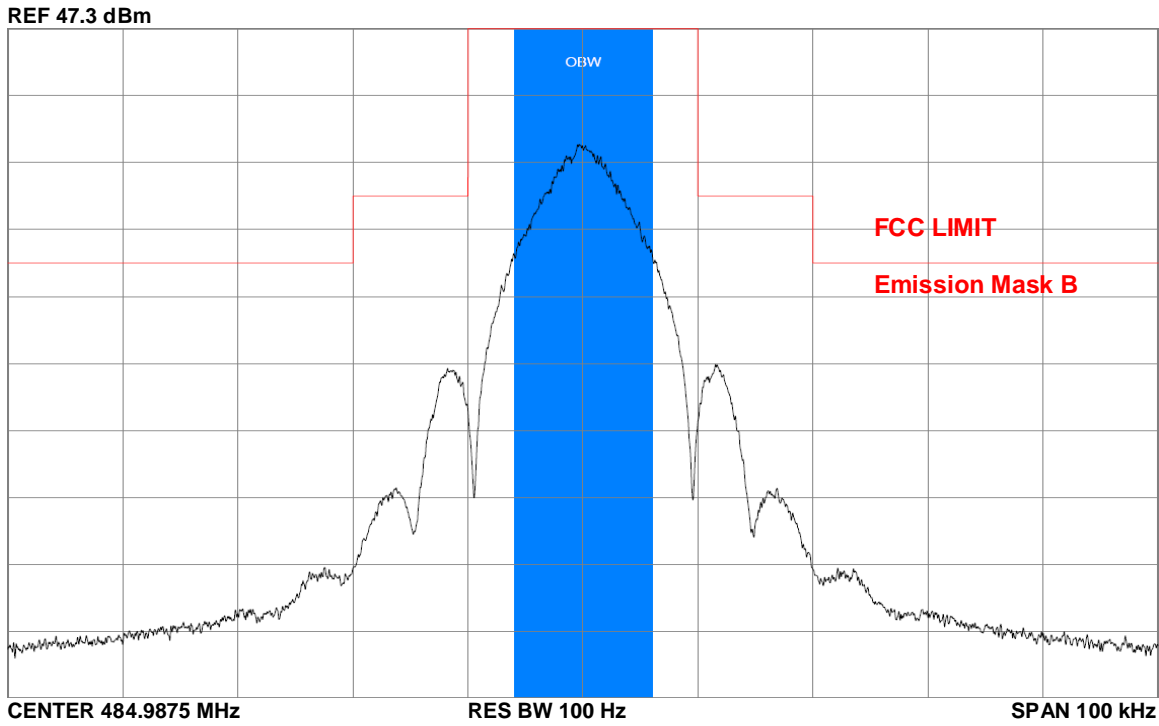


Figure 6E-11: 20 kHz Channel Spacing, 484.9875 MHz, Analog Voice Encryption, 20K0F1E (Not for FCC Review)

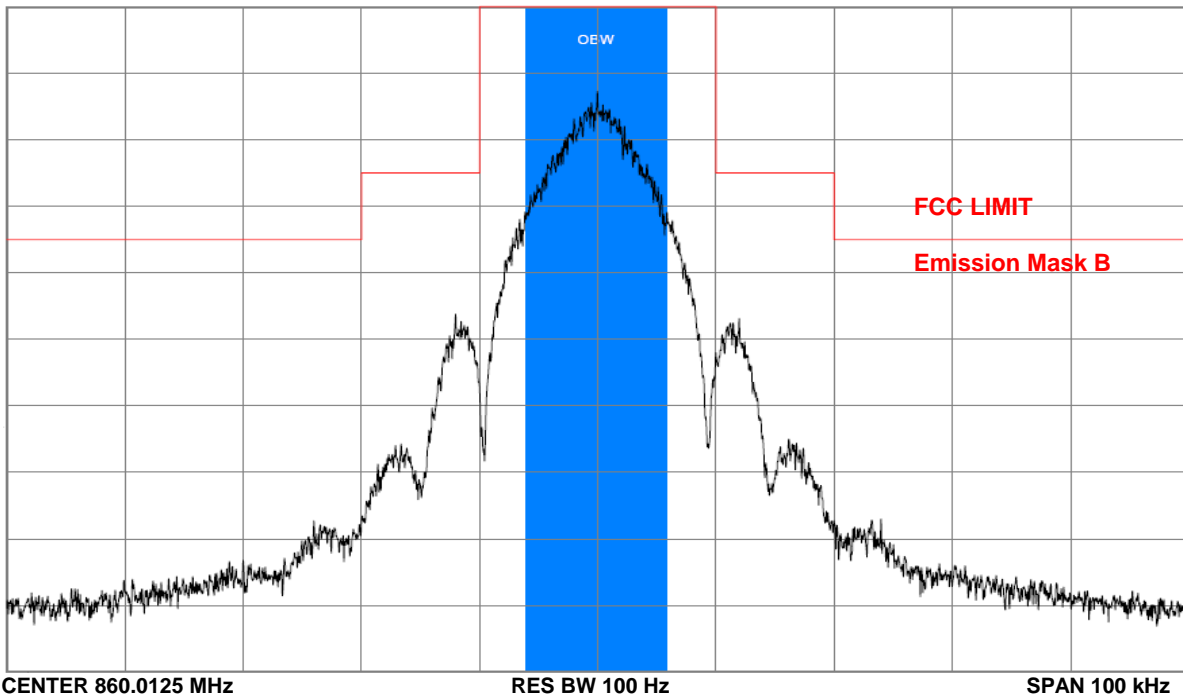


Figure 6E-12: 20 kHz Channel Spacing, 860.0125 MHz, Analog Voice Encryption Mask B 20K0F1E

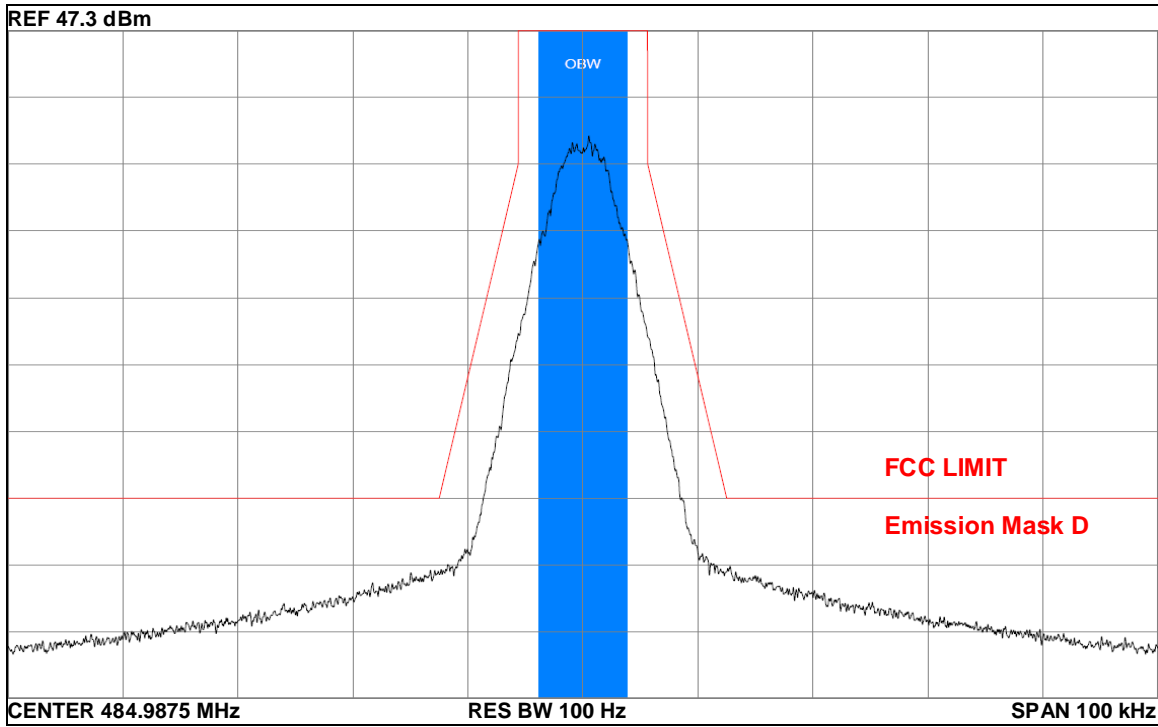


Figure 6E-13: 12.5 kHz Channel Spacing, 484.9875 MHz, Digital Voice Encryption, Mask D 8K10F1E

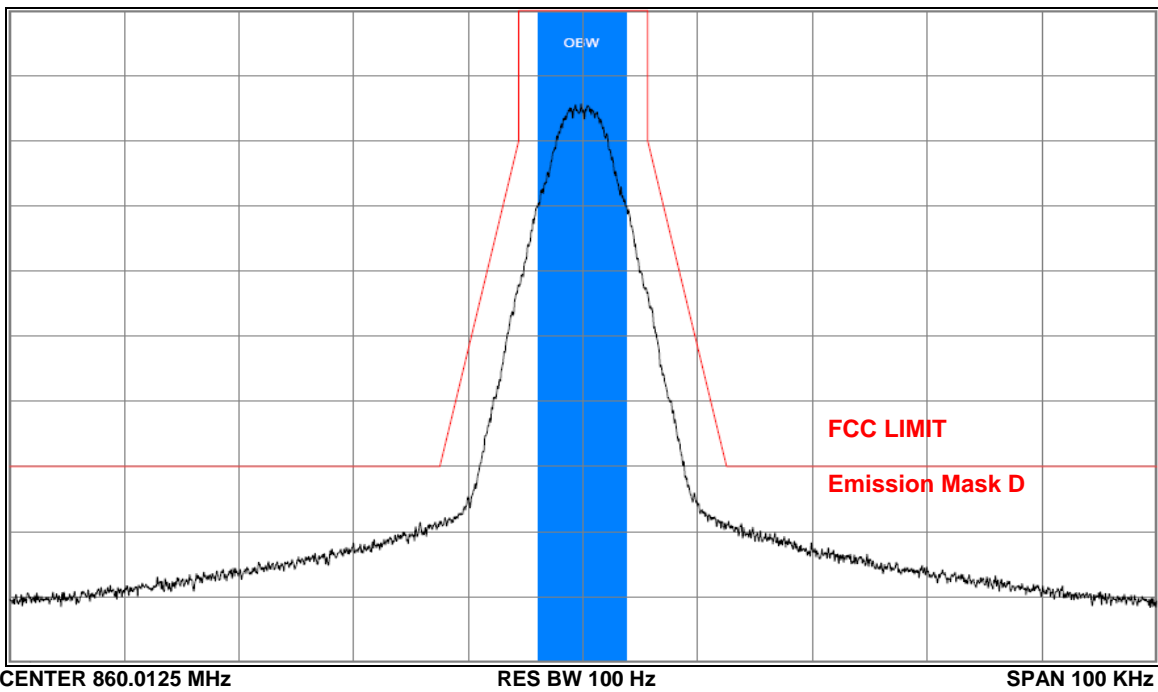


Figure 6E-14: 12.5 kHz Channel Spacing, 860.0125 MHz, Digital Voice Encryption Mask D 8K10F1E

**EXHIBIT 6F**

**Adjacent Channel Coupled Power Ratios – Pursuant 47 CFR 90.543 (a) and CFR 90.543 (b)**

794.0875 MHz 25.0 kHz Channel Spacing ANALOG						
Emission Designator 16KDF3E						
Ref Power Level (dBm) = 46.2						
Offset (KHz)	Measurements Bandwidth (KHz)	Resolution Bandwidth (Hz)		ACP (dBc)		
				Lower	Upper	Spec (dBc)
15.62	6.25	10		-76.19	-76.14	-60
21.87	6.25	10		-78.87	-79.05	-60
37.50	25.00	30		-72.08	-72.06	-65
62.50	25.00	30		-76.66	-76.43	-65
87.50	25.00	30		-79.76	-79.81	-65
150.00	100.00	110		-78.08	-78.21	-65
250.00	100.00	110		-83.71	-83.66	-65
350.00	100.00	110		-86.75	-86.69	-65
>400KHz-12MHz	30 (swept)	3000		<-75		-75
12M-RX Band	30 (swept)	3000		<-75		-75
in RX Band	30 (swept)	3000		<-100		-100

794.0875 MHz 12.5 kHz Channel Spacing ANALOG						
Emission Designator 11KDF3E						
Ref Power Level (dBm) = 46.2						
Offset (KHz)	Measurements Bandwidth (KHz)	Resolution Bandwidth (Hz)		ACP (dBc)		
				Lower	Upper	Spec (dBc)
9.37	6.25	10		-68.06	-67.78	-40
15.62	6.25	10		-75.53	-76.33	-60
21.87	6.25	10		-79.02	-78.79	-60
37.50	25.00	30		-71.76	-71.86	-65
62.50	25.00	30		-76.40	-76.62	-65
87.50	25.00	30		-79.70	-79.89	-65
150.00	100.00	110		-78.45	-78.43	-65
250.00	100.00	110		-83.84	-83.74	-65
350.00	100.00	110		-86.68	-86.81	-65
>400KHz-12MHz	30 (swept)	3000		<-75		-75
12M-RX Band	30 (swept)	3000		<-75		-75
in RX Band	30 (swept)	3000		<-100		-100

794.0875 MHz 12.5 kHz Channel Spacing DIGITAL DATA						
Emission Designator 8K10F1D						
Ref Power Level (dBm) = 46.2						
Offset (KHz)	Measurements Bandwidth (KHz)	Resolution Bandwidth (Hz)	ACP (dBc)			
			Lower	Upper	Spec (dBc)	
9.37	6.25	10	-42.56	-43.02	-40	
15.62	6.25	10	-76.66	-76.81	-60	
21.87	6.25	10	-78.97	-78.92	-60	
37.50	25.00	30	-71.57	-71.73	-65	
62.50	25.00	30	-76.03	-76.44	-65	
87.50	25.00	30	-79.84	-79.90	-65	
150.00	100.00	110	-78.29	-78.39	-65	
250.00	100.00	110	-83.99	-83.91	-65	
350.00	100.00	110	-86.89	-86.96	-65	
≥400KHz-12MHz	30 (swept)	3000	<-75		-75	
12M-RX Band	30 (swept)	3000	<-75		-75	
in RX Band	30 (swept)	3000	<-100		-100	

794.0875 MHz 12.5 kHz Channel Spacing DIGITAL VOICE						
Emission Designator 8K10F1E						
Ref Power Level (dBm) = 46.2						
Offset (KHz)	Measurements Bandwidth (KHz)	Resolution Bandwidth (Hz)	ACP (dBc)			
			Lower	Upper	Spec (dBc)	
9.37	6.25	10	-42.25	-42.70	-40	
15.62	6.25	10	-76.61	-76.41	-60	
21.87	6.25	10	-78.78	-78.92	-60	
37.50	25.00	30	-74.07	-73.85	-65	
62.50	25.00	30	-76.52	-76.32	-65	
87.50	25.00	30	-79.57	-79.83	-65	
150.00	100.00	110	-77.85	-77.69	-65	
250.00	100.00	110	-83.44	-83.29	-65	
350.00	100.00	110	-86.41	-86.37	-65	
≥400KHz-12MHz	30 (swept)	3000	<-75		-75	
12M-RX Band	30 (swept)	3000	<-75		-75	
in RX Band	30 (swept)	3000	<-100		-100	

794.0875 MHz 12.5 kHz Channel Spacing DIGITAL VOICE ENCRYPTION						
Emission Designator 8K10F1E						
Ref Power Level (dBm) = 46.2						
Offset (KHz)	Measurements Bandwidth (KHz)	Resolution Bandwidth (Hz)	ACP (dBc)			
			Lower	Upper	Spec (dBc)	
9.37	6.25	10	-41.52	-41.02	-40	
15.62	6.25	10	-76.56	-76.28	-60	
21.87	6.25	10	-78.62	-78.64	-60	
37.50	25.00	30	-72.15	-72.45	-65	
62.50	25.00	30	-76.66	-76.93	-65	
87.50	25.00	30	-79.80	-79.98	-65	
150.00	100.00	110	-78.34	-78.25	-65	
250.00	100.00	110	-83.41	-83.27	-65	
350.00	100.00	110	-86.36	-86.23	-65	
>400KHz-12MHz	30 (swept)	3000	<-75		-75	
12M-RX Band	30 (swept)	3000	<-75		-75	
in RX Band	30 (swept)	3000	<-100		-100	

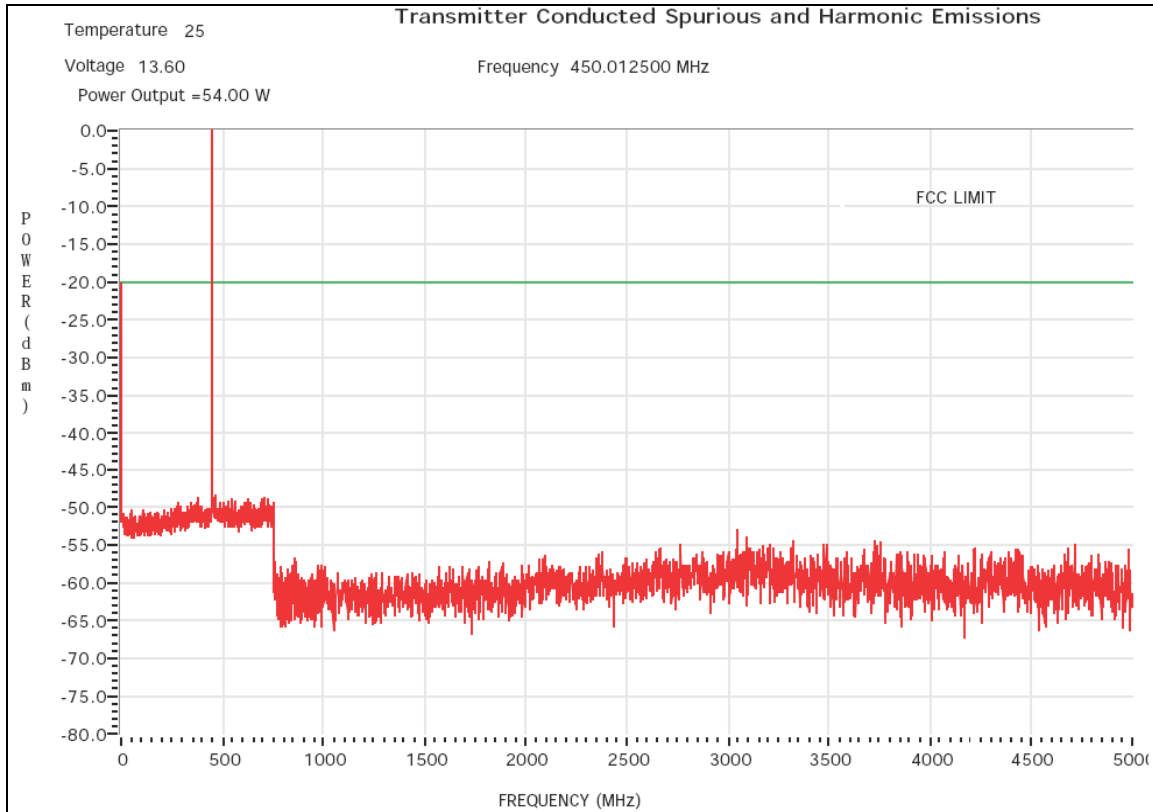
794.0875 MHz 12.5 kHz Channel Spacing DIGITAL TDMA						
Emission Designator 8K10F1W						
Ref Power Level (dBm) = 46.2						
Offset (kHz)	Measurements Bandwidth (kHz)	Resolution Bandwidth (Hz)	ACP (dBc)			
			Lower	Upper	Spec (dBc)	
9.375	6.250	100	-42.36	-42.84	-40	
15.625	6.250	100	-69.90	-70.16	-60	
21.875	6.250	100	-74.54	-75.81	-60	
37.500	25.000	300	-71.74	-71.13	-65	
62.500	25.000	300	-76.87	-76.38	-65	
87.500	25.000	300	-79.93	-79.81	-65	
150.000	100.000	1100	-76.64	-76.85	-65	
250.000	100.000	1100	-82.38	-81.71	-65	
350.000	100.000	1100	-84.24	-84.25	-65	
>400kHz-12MHz	30 (swept)	30000	<-75		-75	
12M-RX Band	30 (swept)	30000	<-75		-75	
in RX Band	30 (swept)	30000	<-100		-100	

**EXHIBIT 6G**

**Conducted Spurious Emissions - Pursuant 47 CFR 2.1051 and 2.1033(c) (13)**

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 6G-1: 54W Harmonic of Carrier 450.0125 MHz**

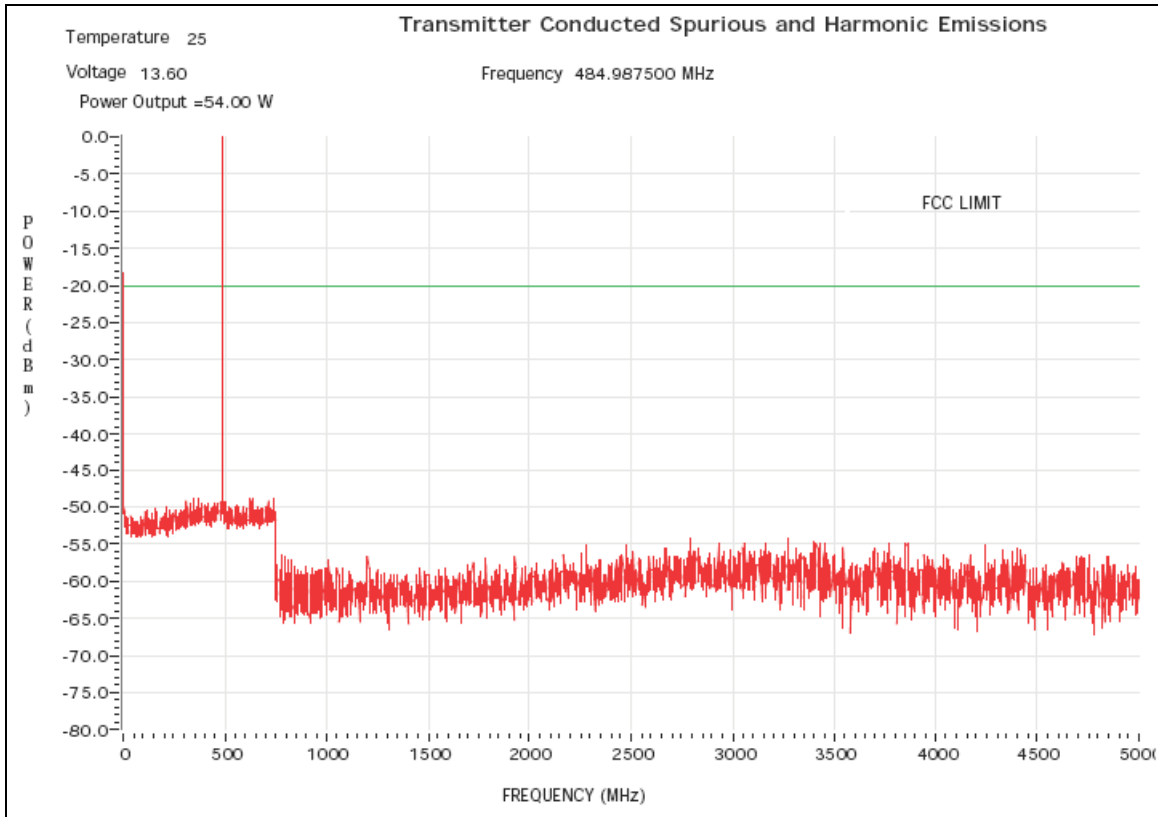


Figure 6G-2: 54W Harmonics of Carrier 484.9875 MHz

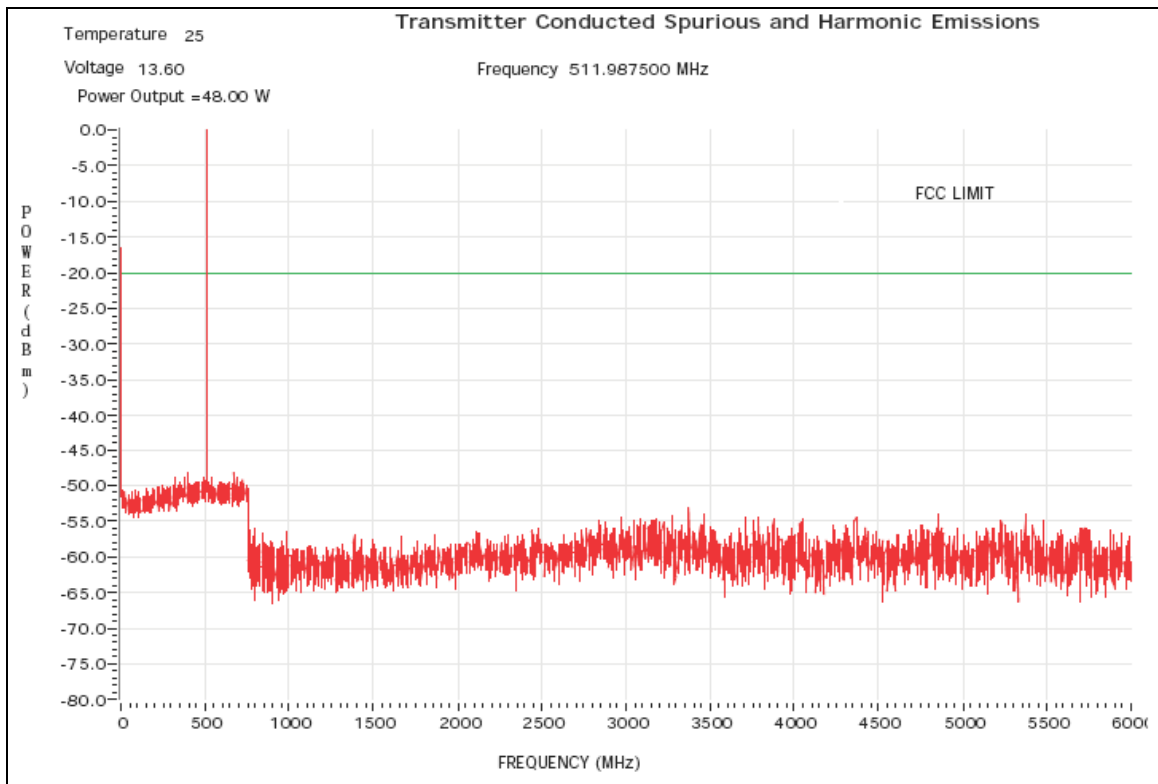


Figure 6G-3: 48W Harmonics of Carrier 511.9875 MHz



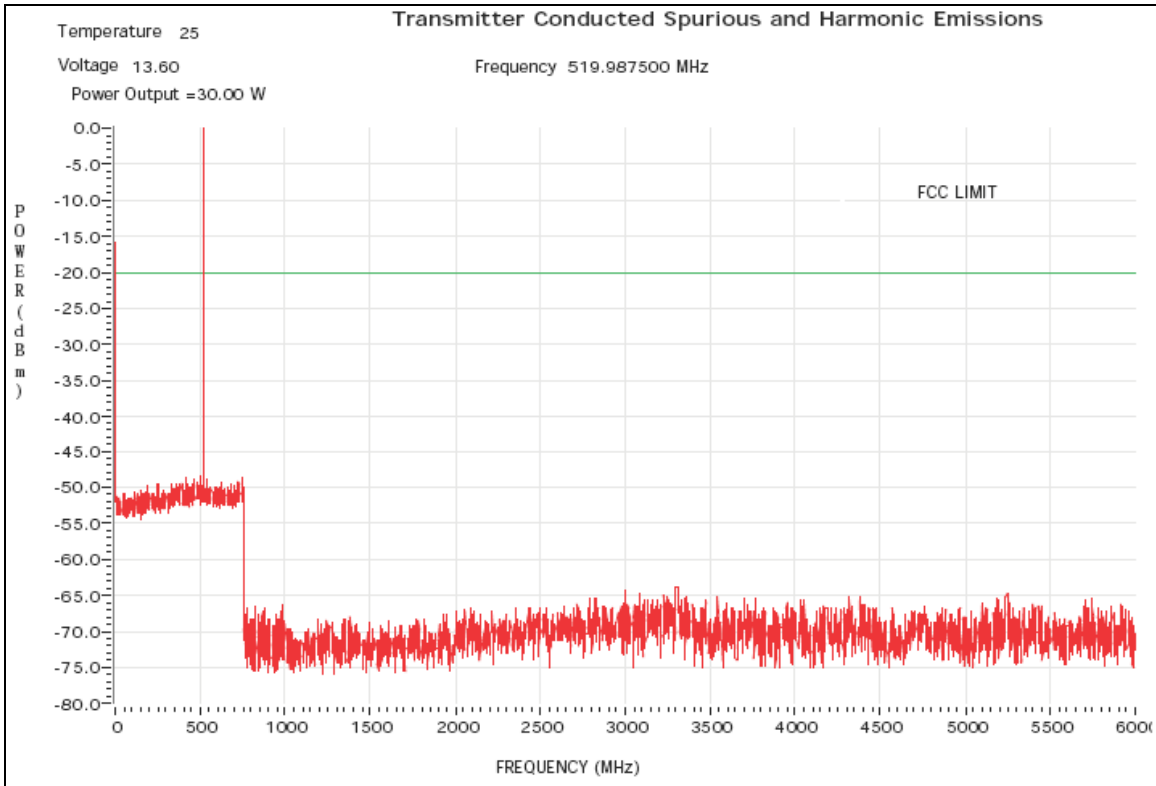


Figure 6G-4: 30W Harmonics of Carrier 519.9875 MHz

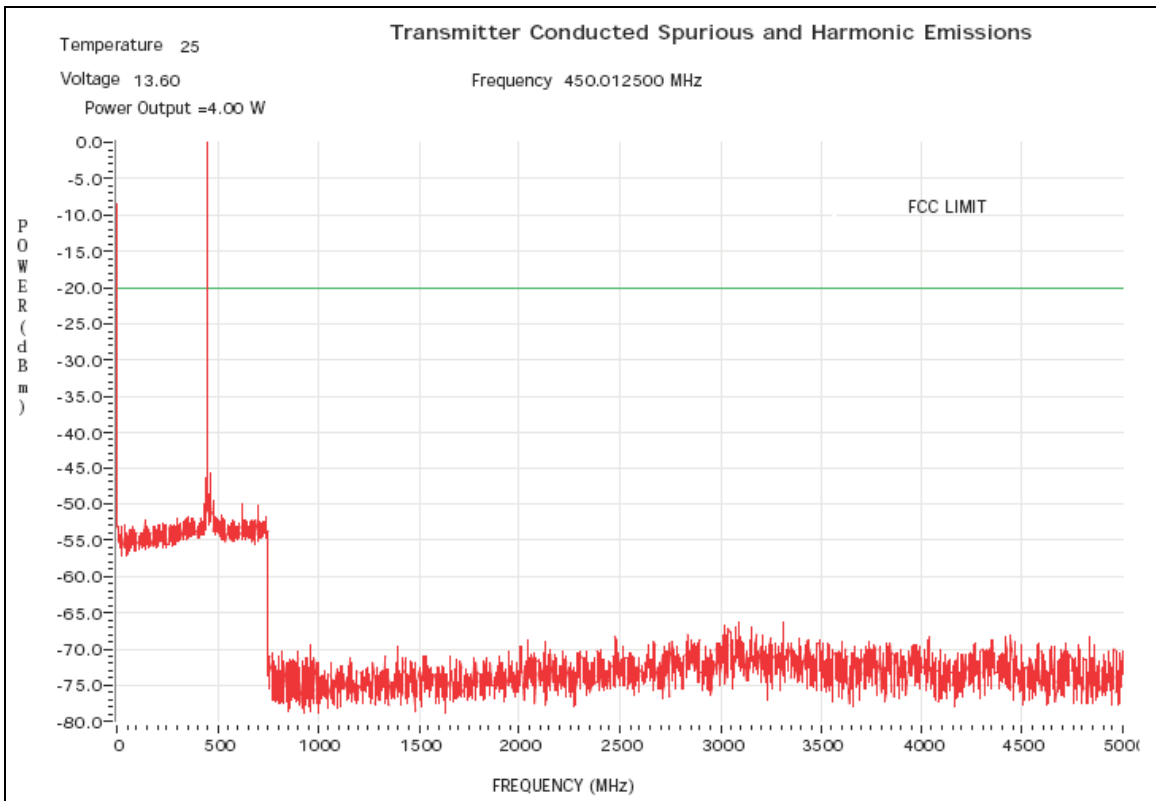


Figure 6G-5: 4W Harmonics of Carrier 450.0125 MHz

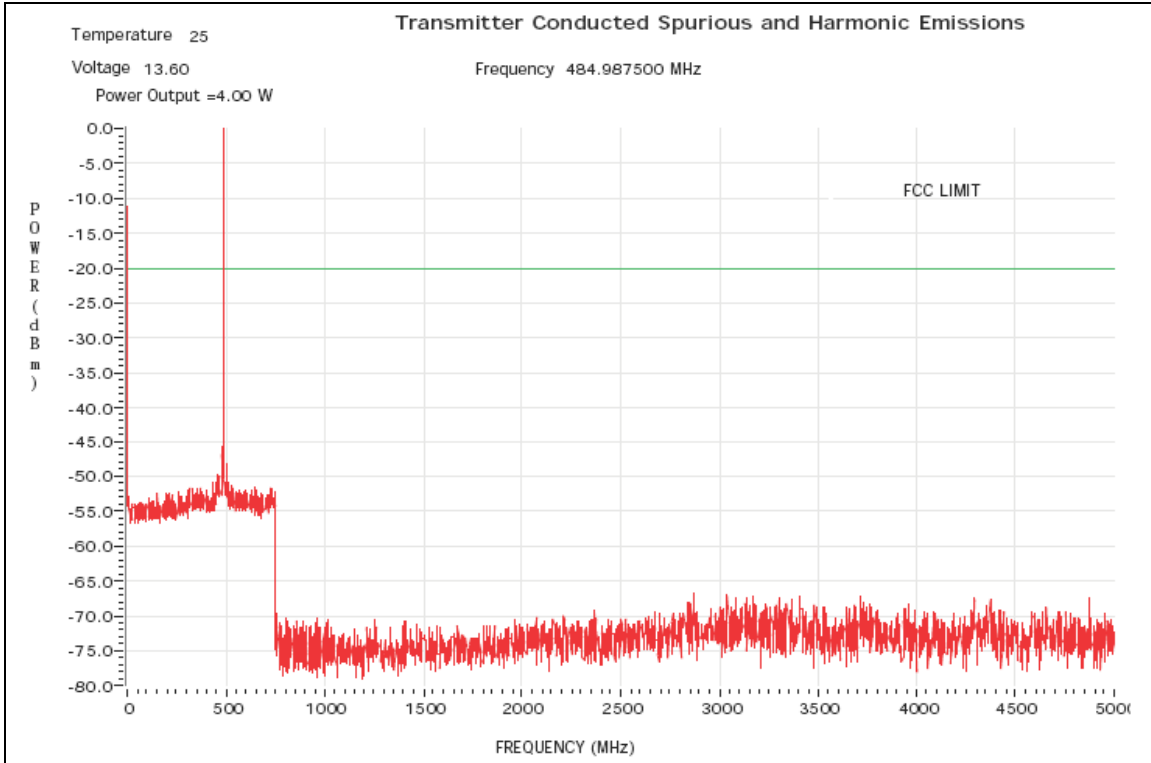


Figure 6G-6: 4W Harmonics of Carrier 484.9875 MHz

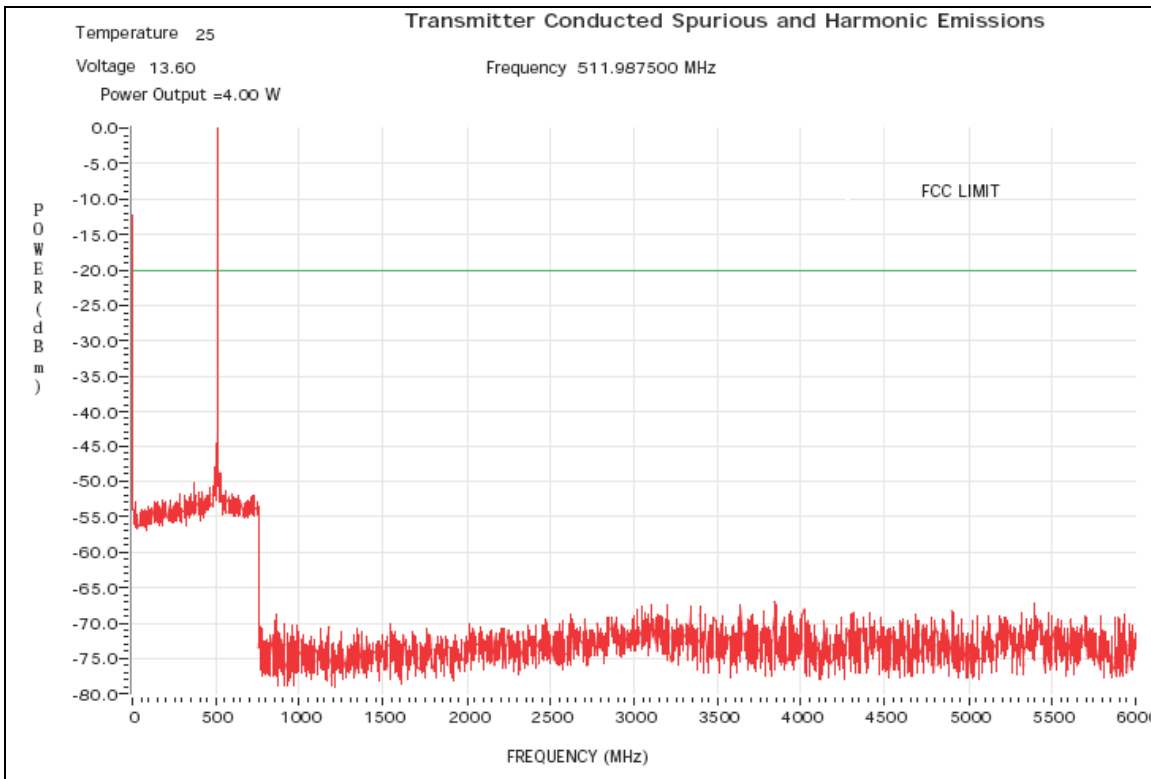


Figure 6G-7: 4W Harmonics of Carrier 511.9875 MHz

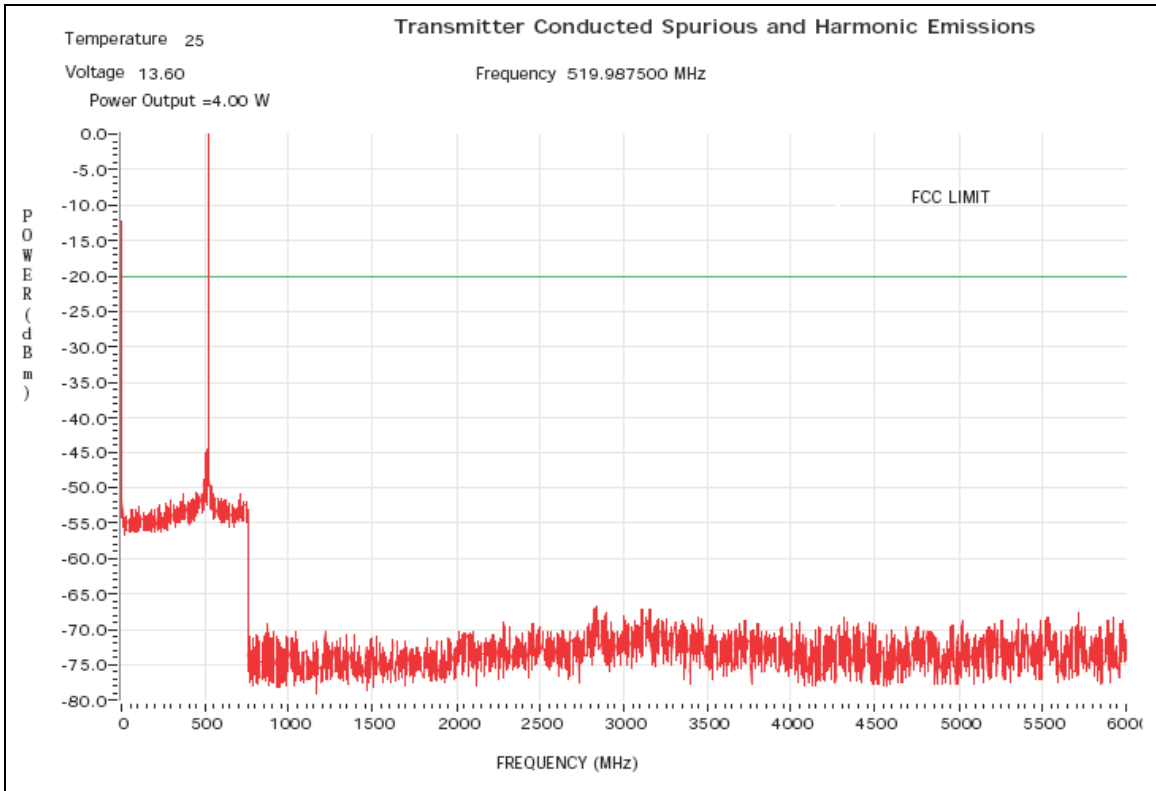


Figure 6G-8: 4W Harmonics of Carrier 519.9875 MHz

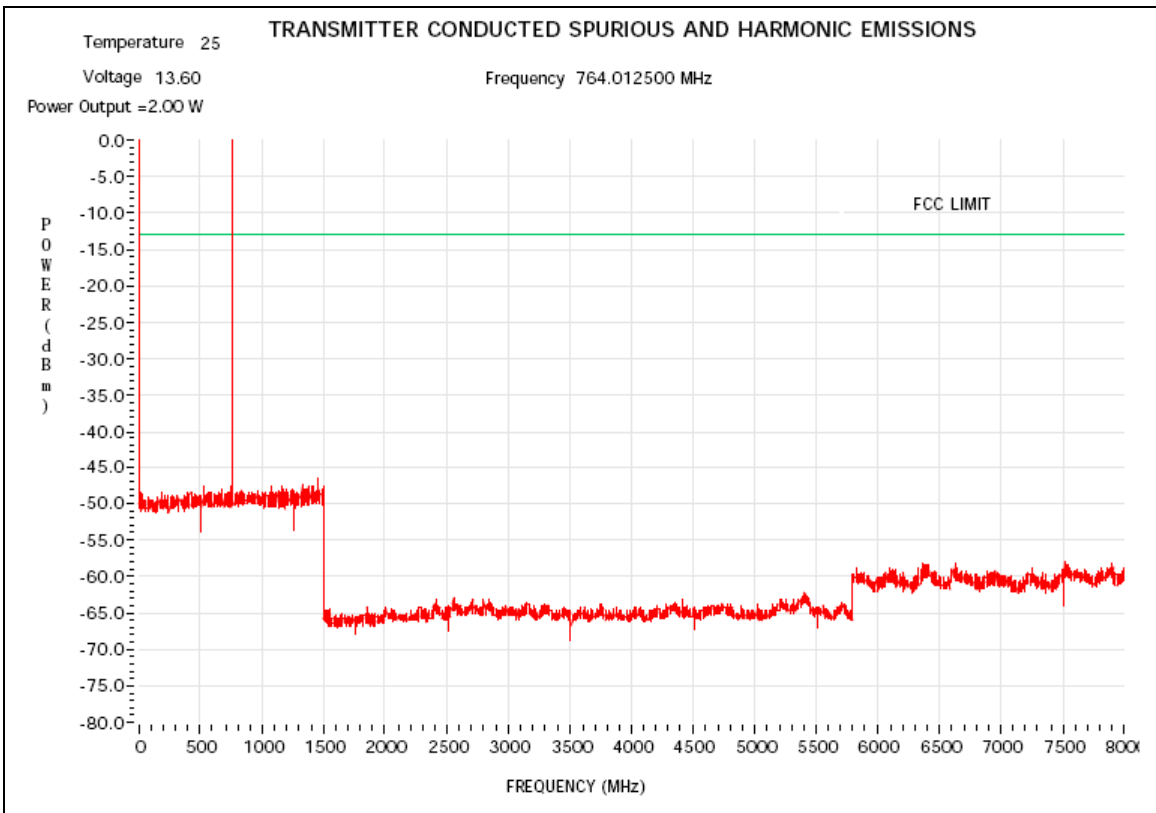


Figure 6G-9: 2W Harmonic of Carrier 764.0125 MHz

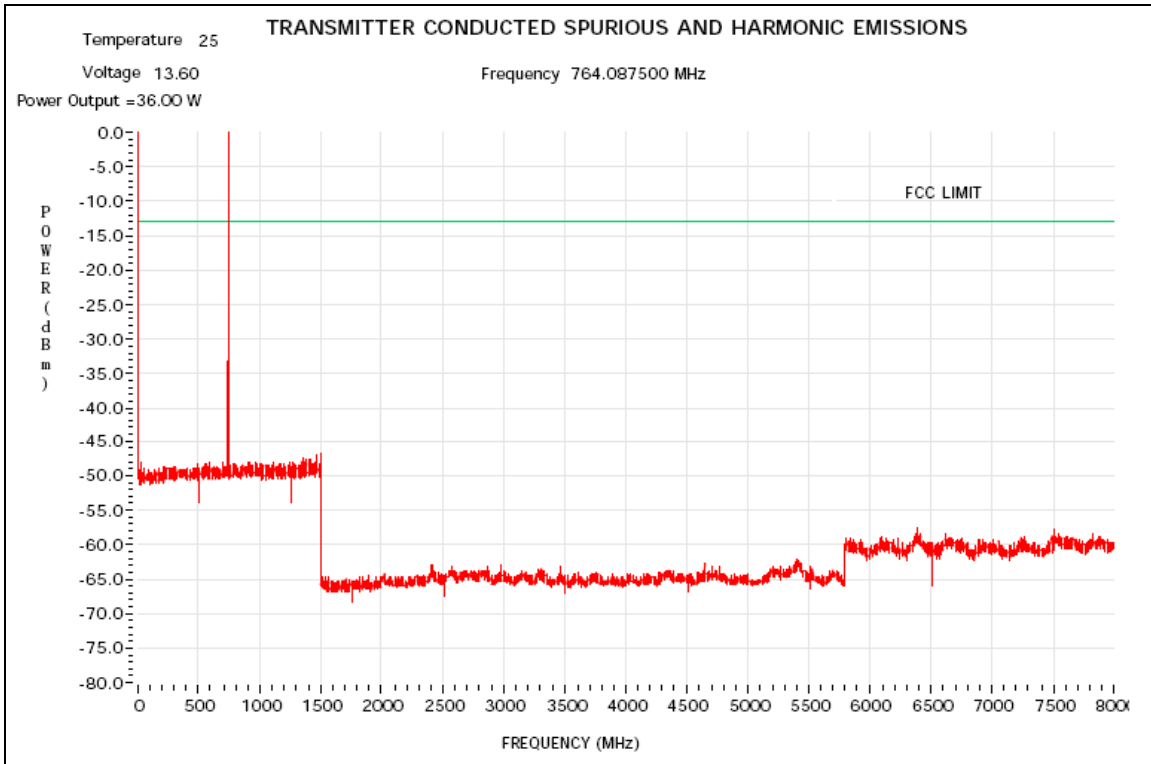


Figure 6G-10: 36W Harmonic of Carrier 764.0875 MHz

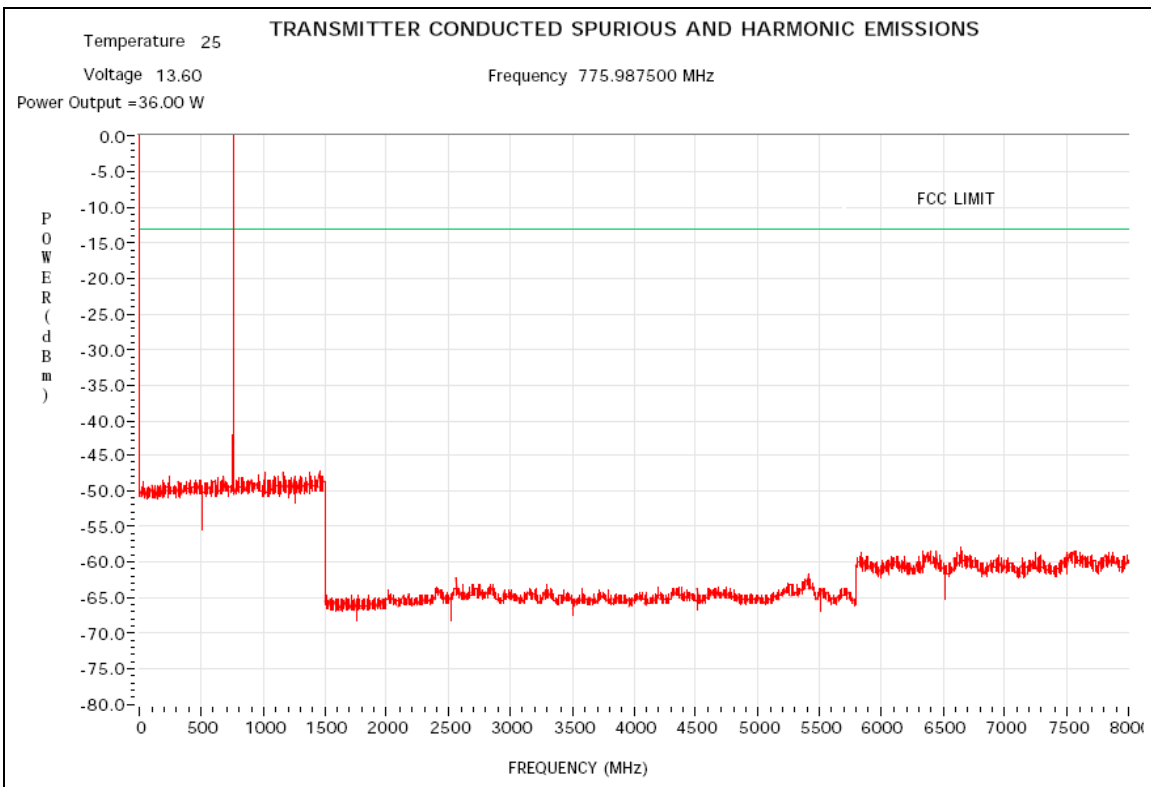


Figure 6G-11: 36W Harmonic of Carrier 775.9875 MHz

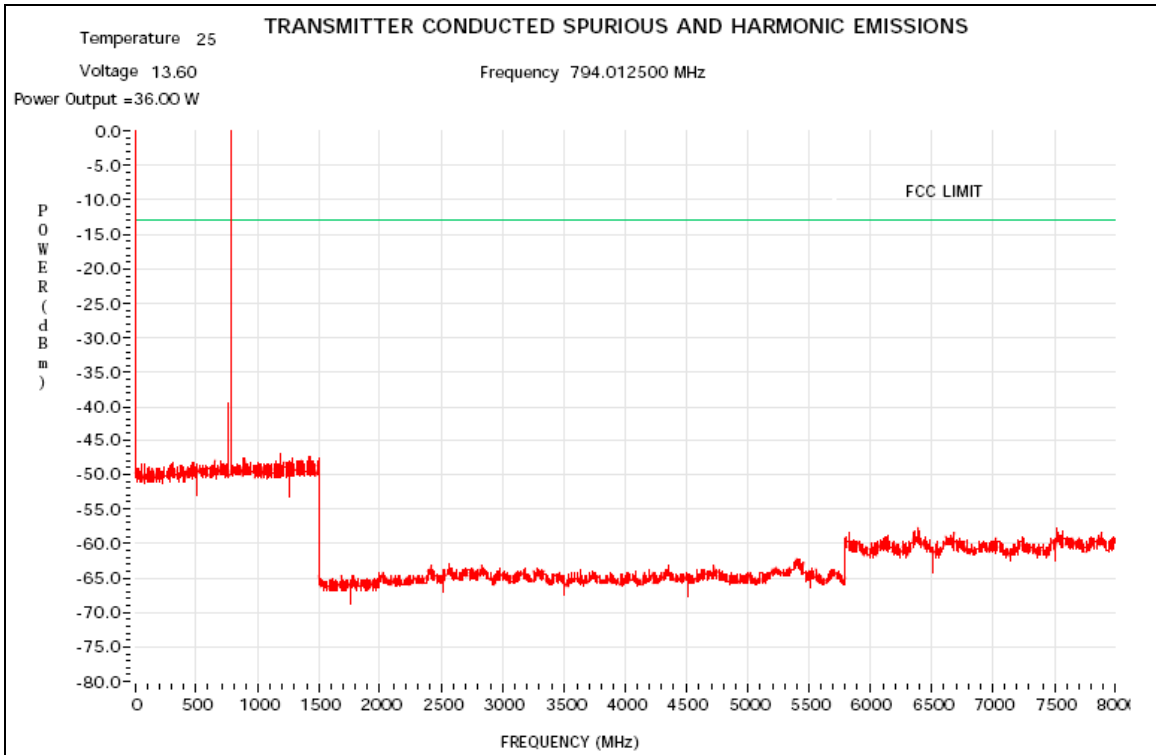


Figure 6G-12: 36W Harmonic of Carrier 764.0125 MHz

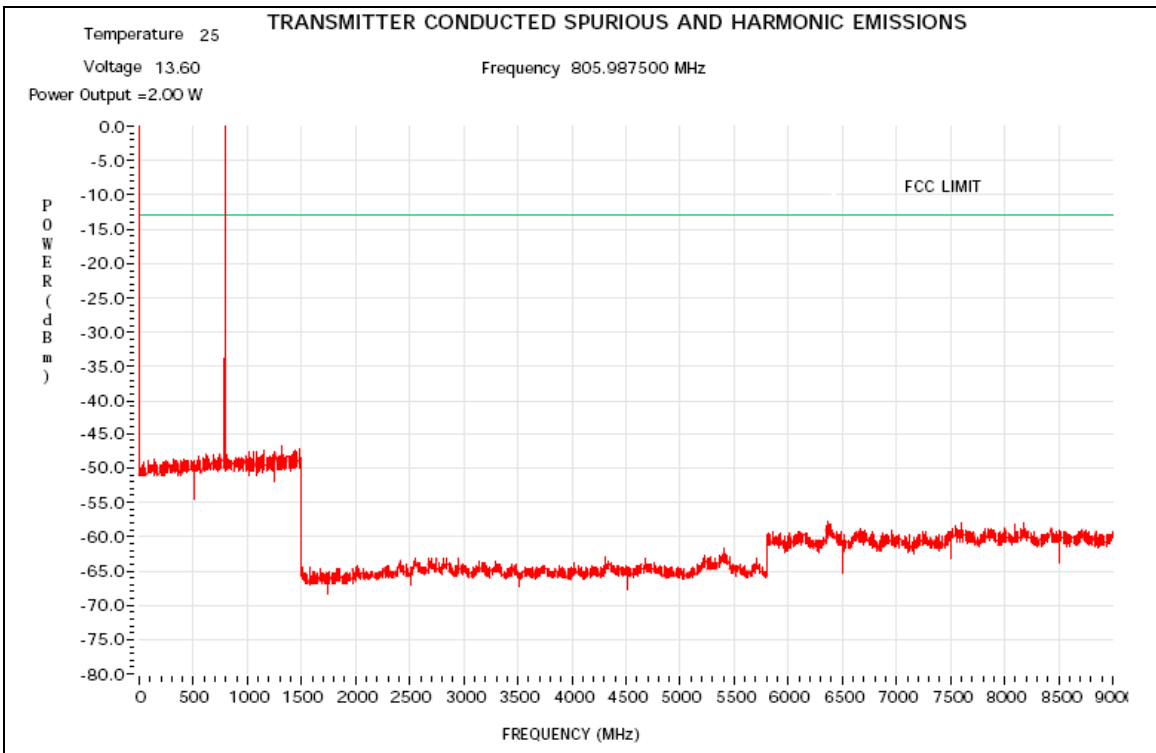


Figure 6G-13: 2W Harmonic of Carrier 805.9875 MHz

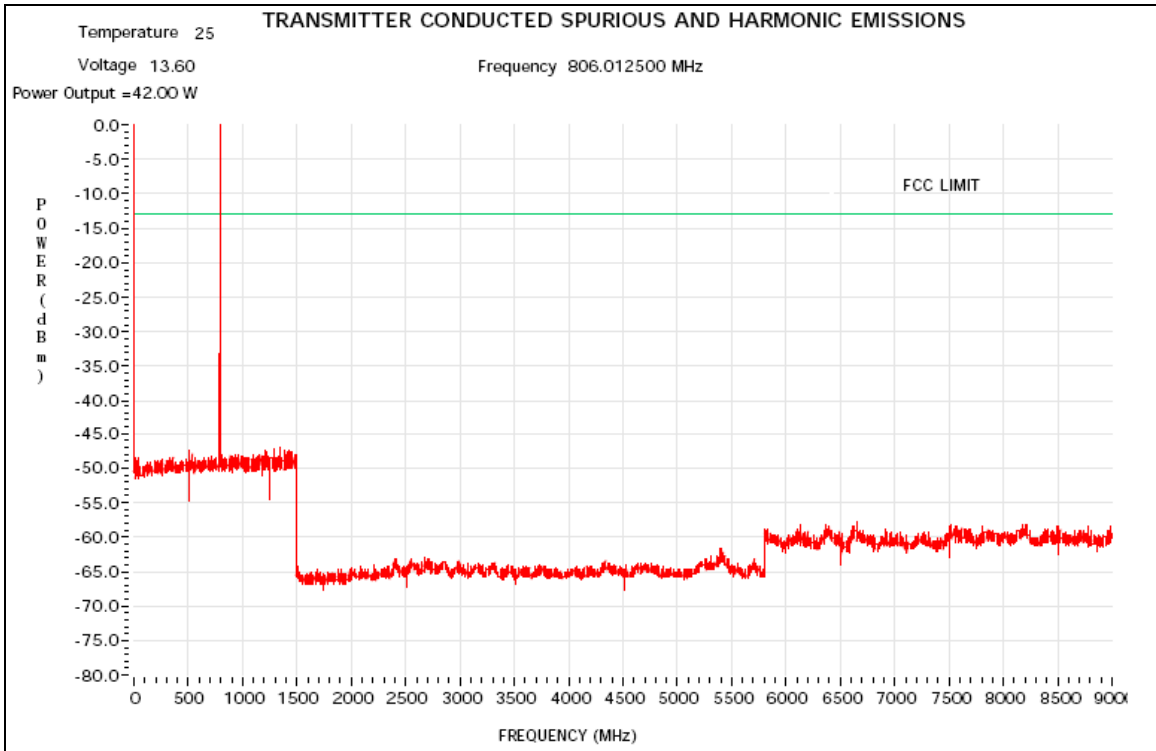


Figure 6G-14: 42W Harmonic of Carrier 806.0125 MHz

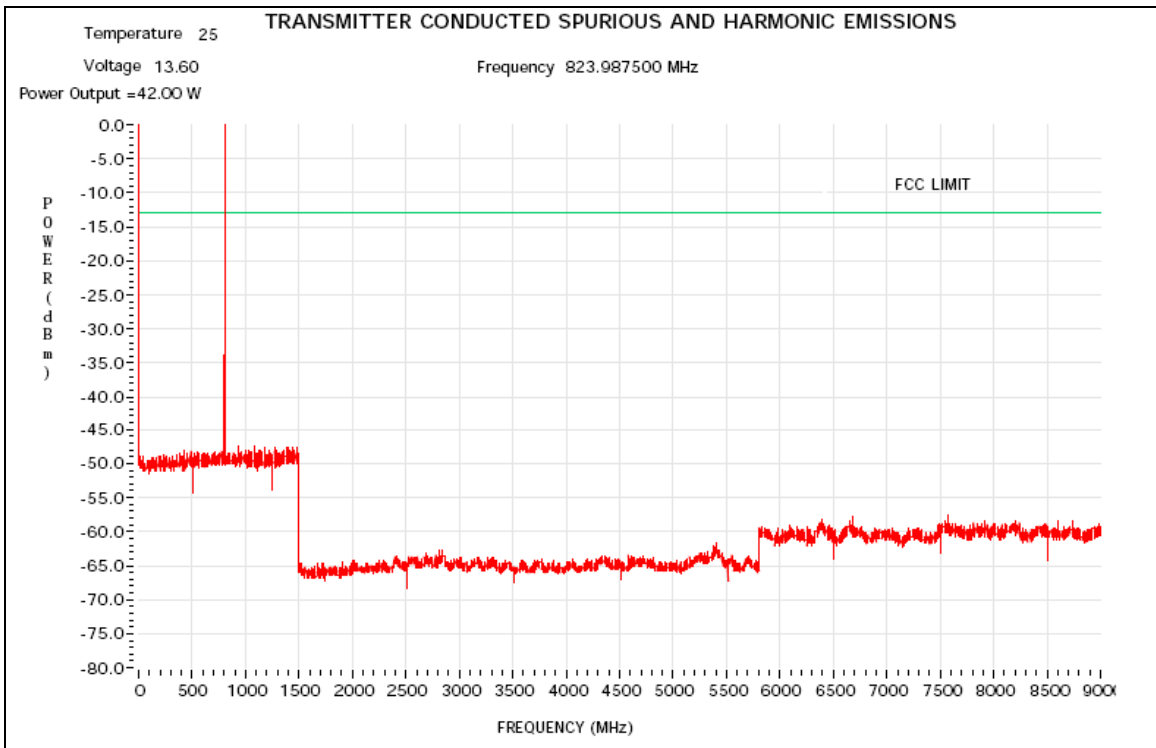


Figure 6G-15: 42W Harmonic of Carrier 823.9875 MHz

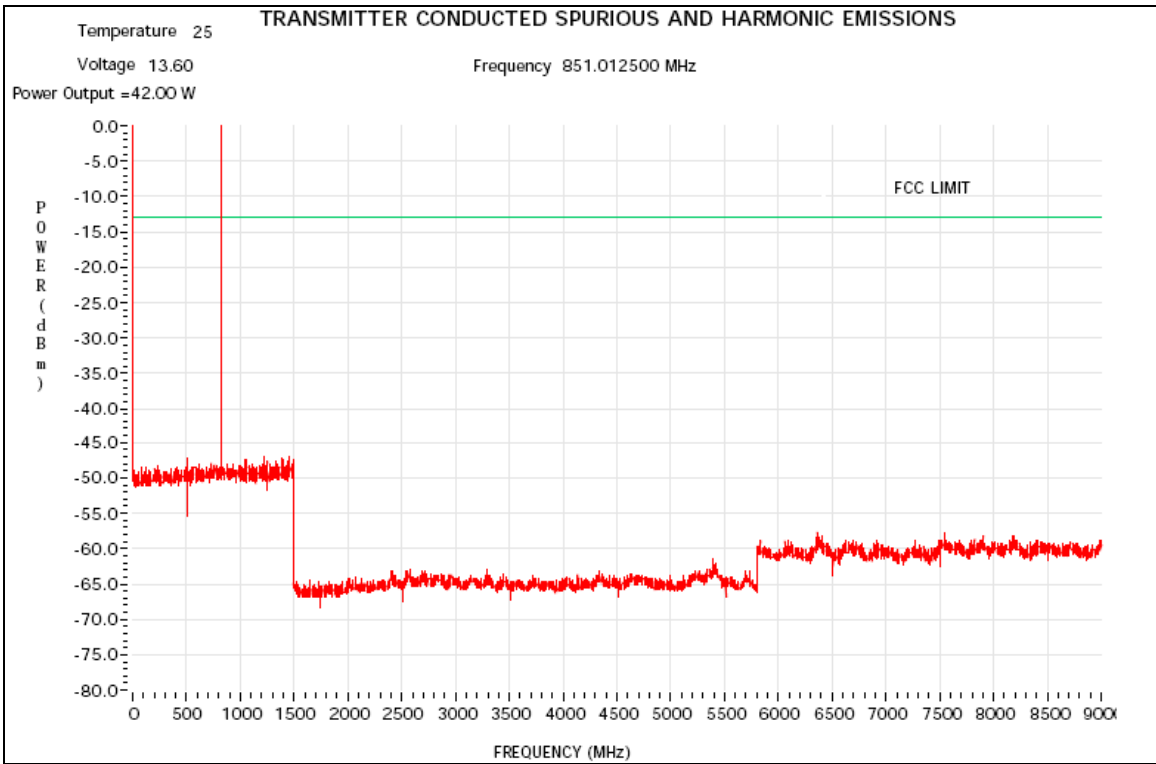


Figure 6G-16: 42W Harmonic of Carrier 851.0125 MHz

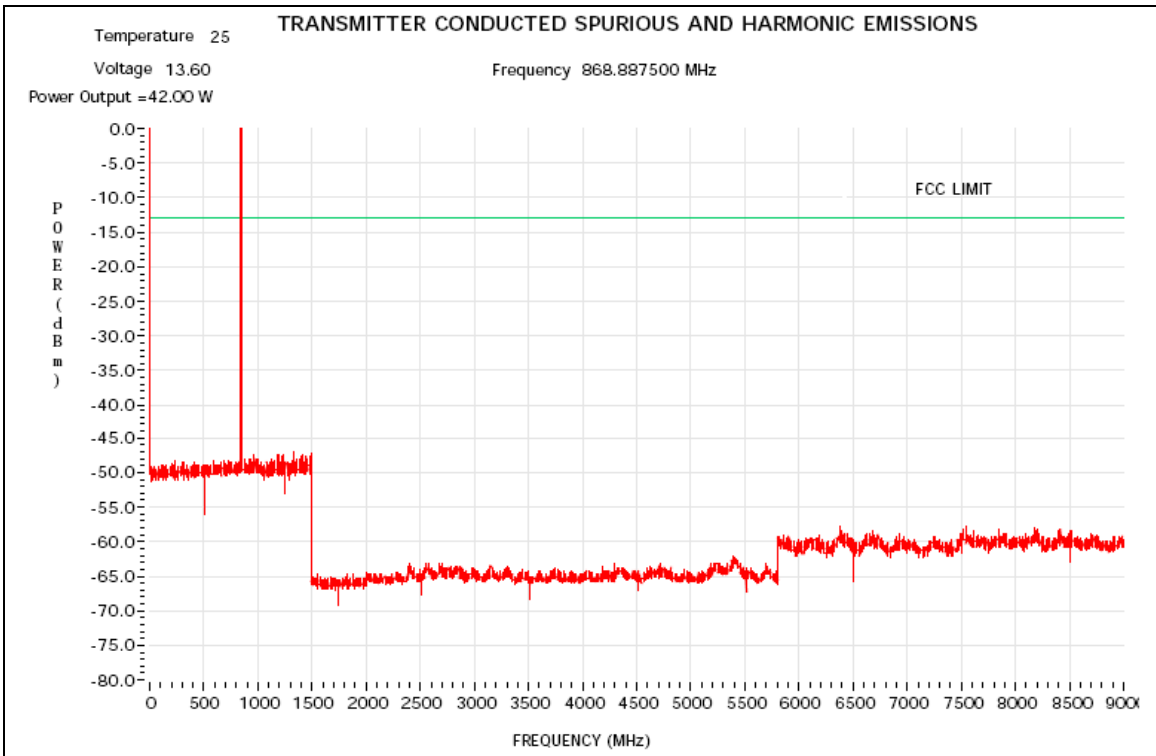


Figure 6G-17: 42W Harmonic of Carrier 868.8875 MHz

DIGITAL MODE

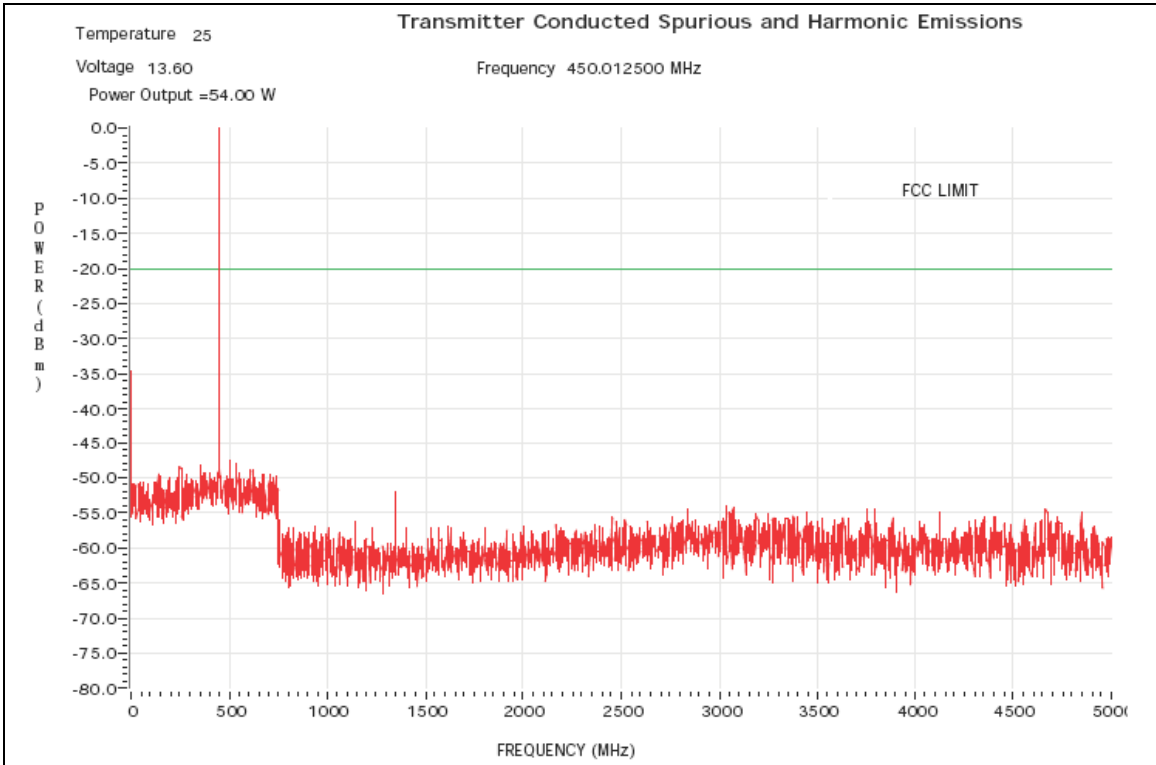


Figure 6G-18: 54W Harmonics of Carrier 450.0125 MHz

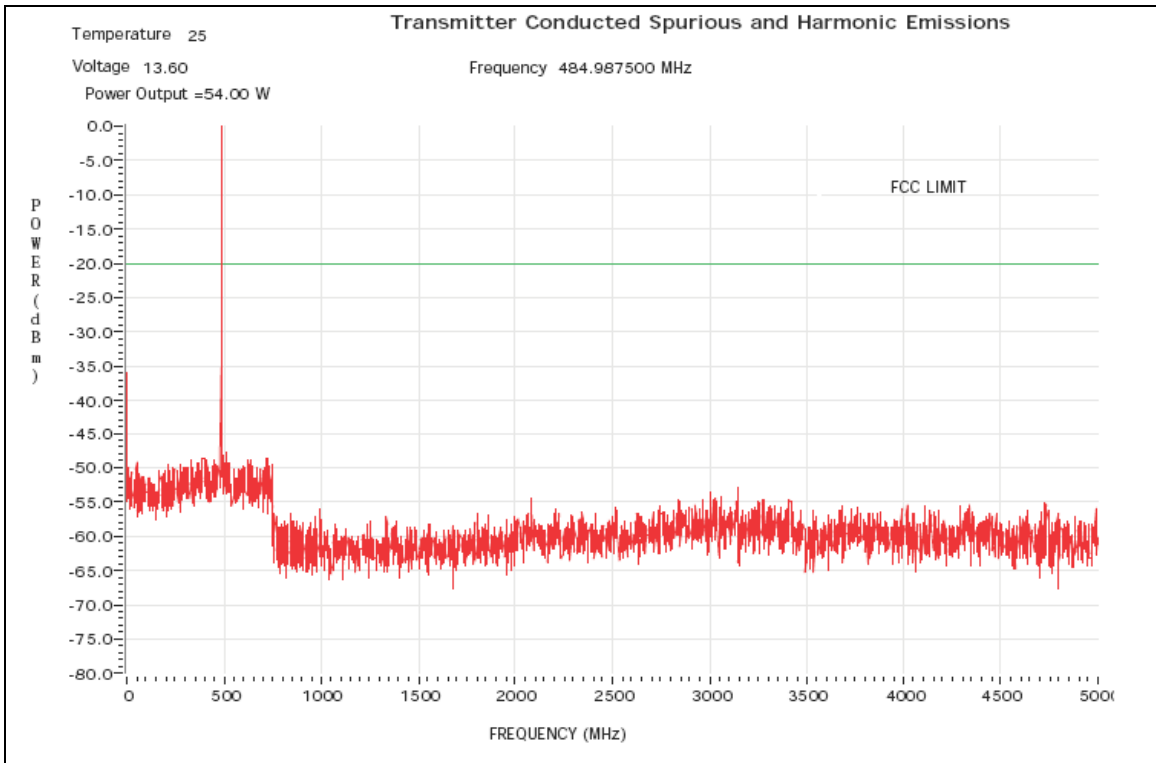


Figure 6G-19: 54W Harmonics of Carrier 484.9875 MHz



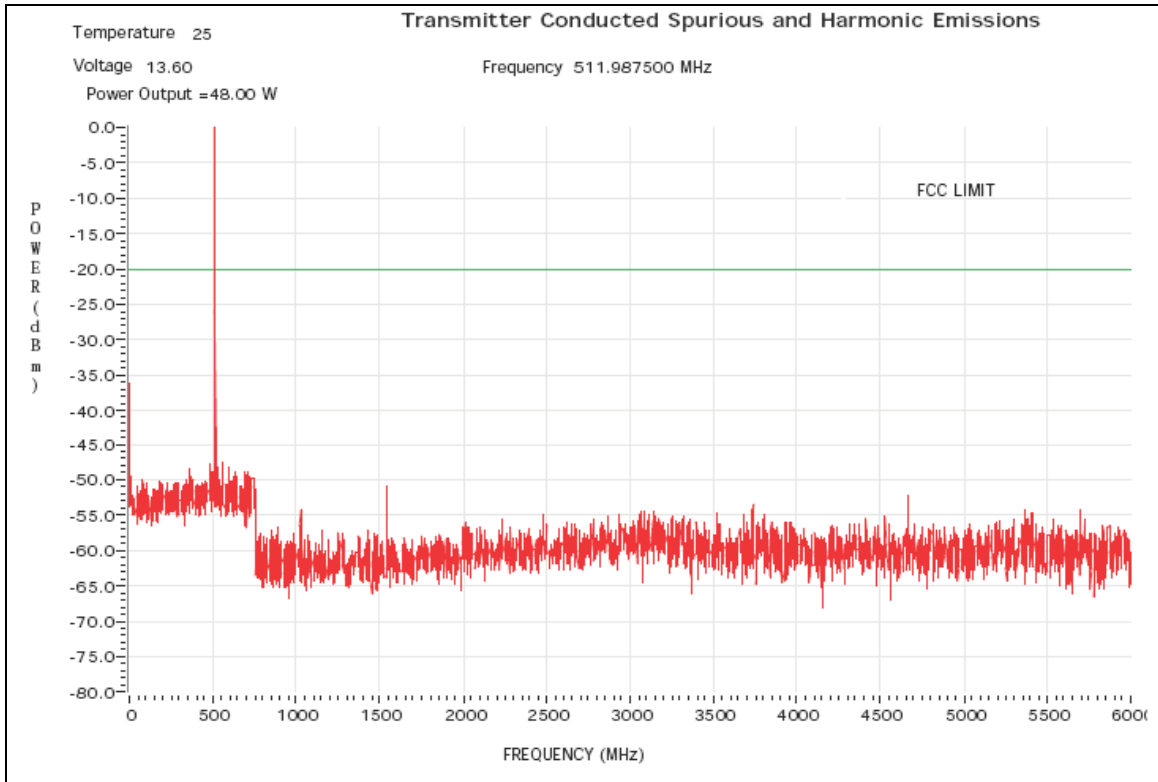


Figure 6G-20: 48W Harmonics of Carrier 511.9875 MHz

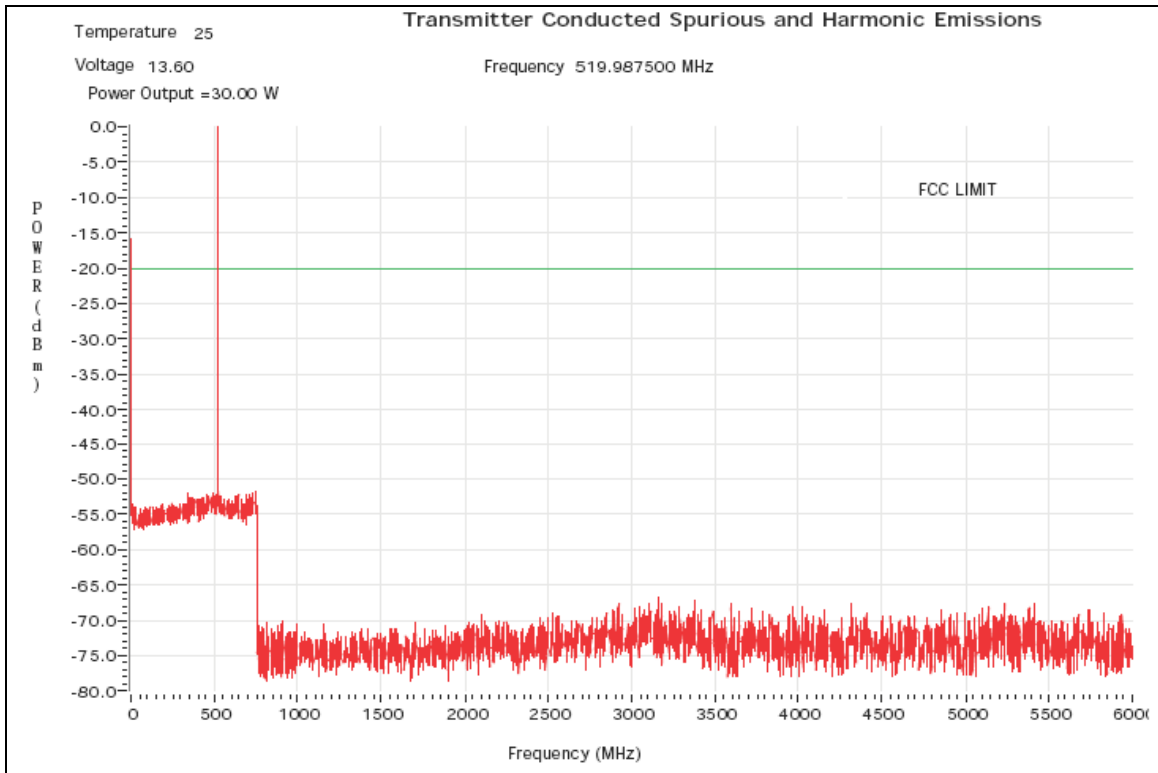


Figure 6G-21: 30W Harmonics of Carrier 519.9875 MHz

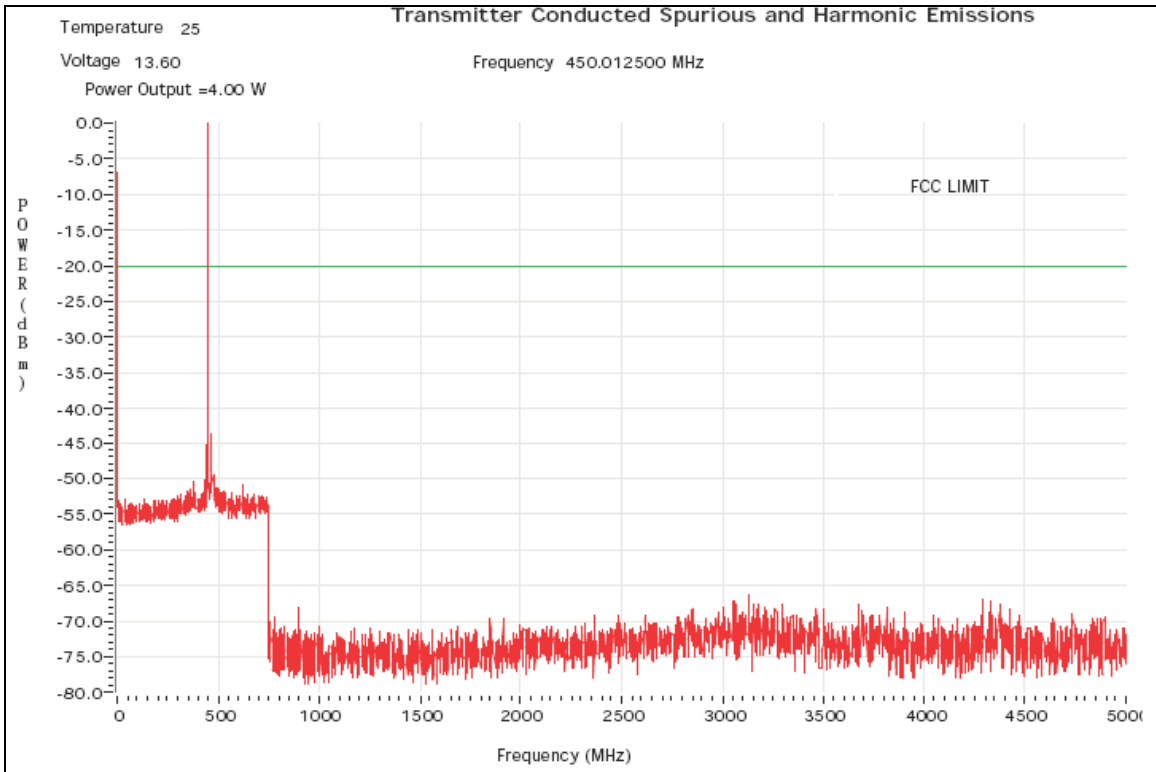


Figure 6G-22: 4W Harmonics of Carrier 450.0125 MHz

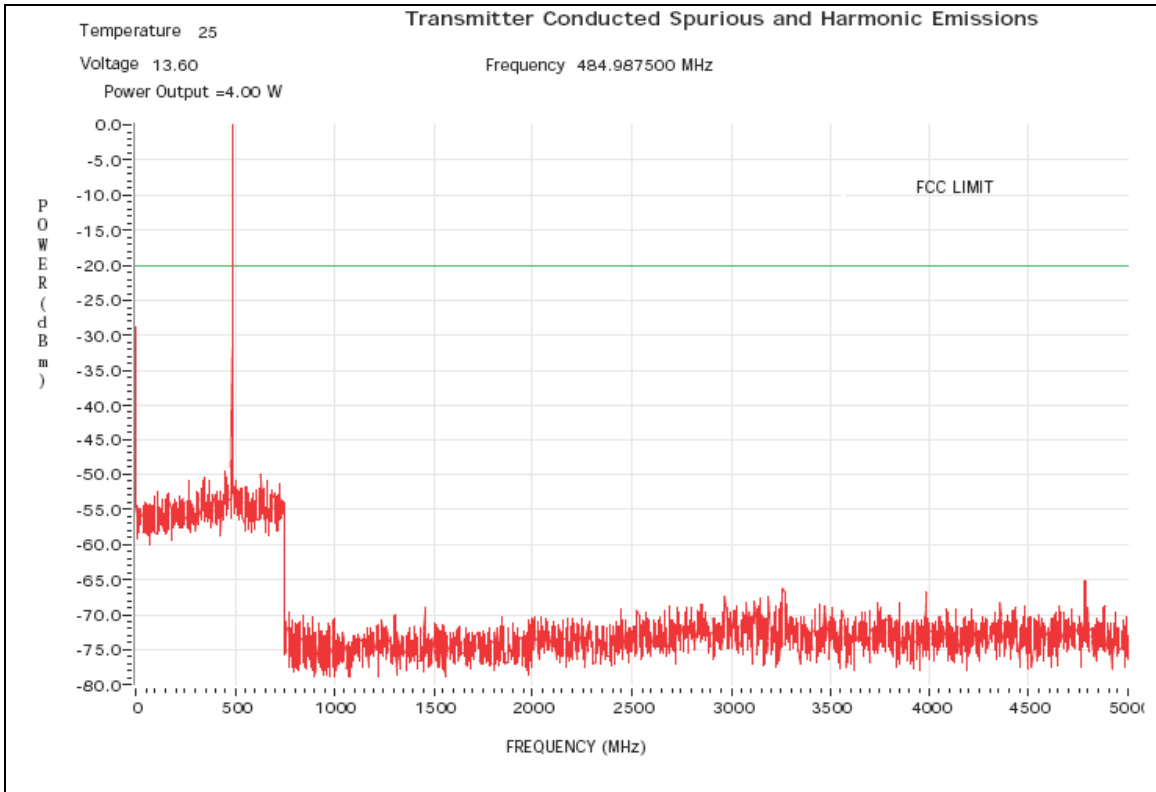


Figure 6G-23: 4W Harmonics of Carrier 484.9875 MHz

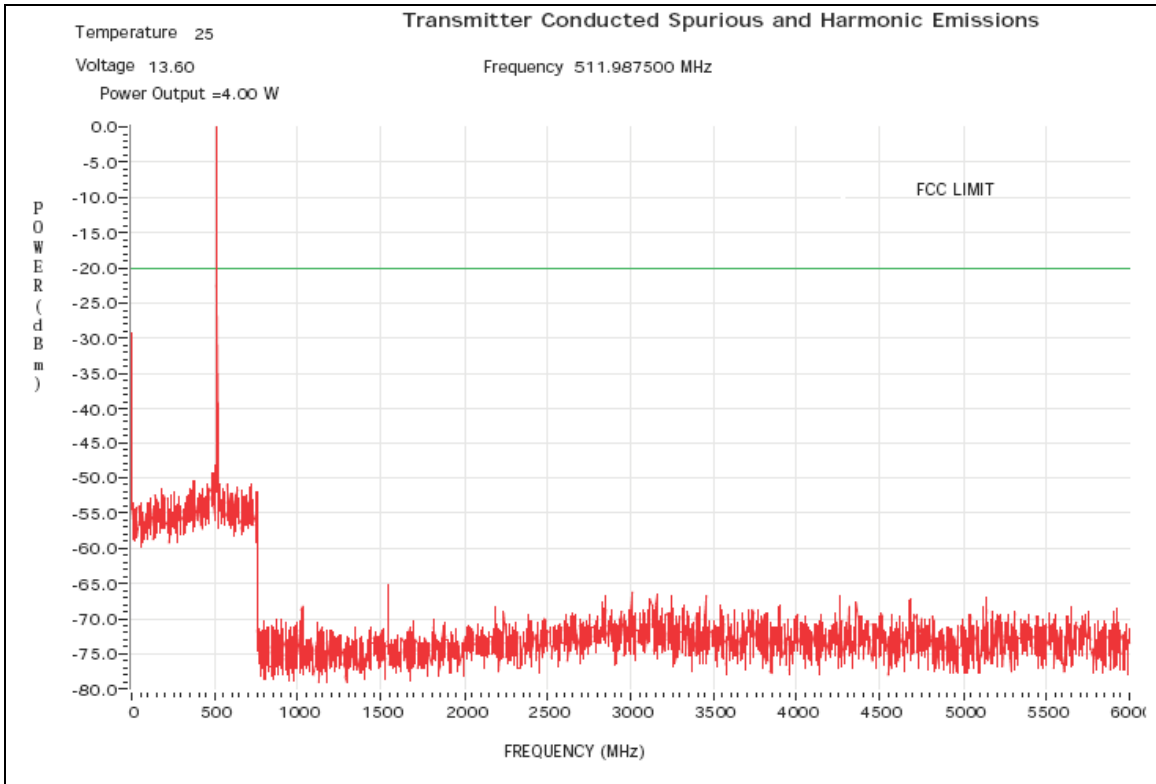


Figure 6G-24: 4W Harmonics of Carrier 511.9875 MHz

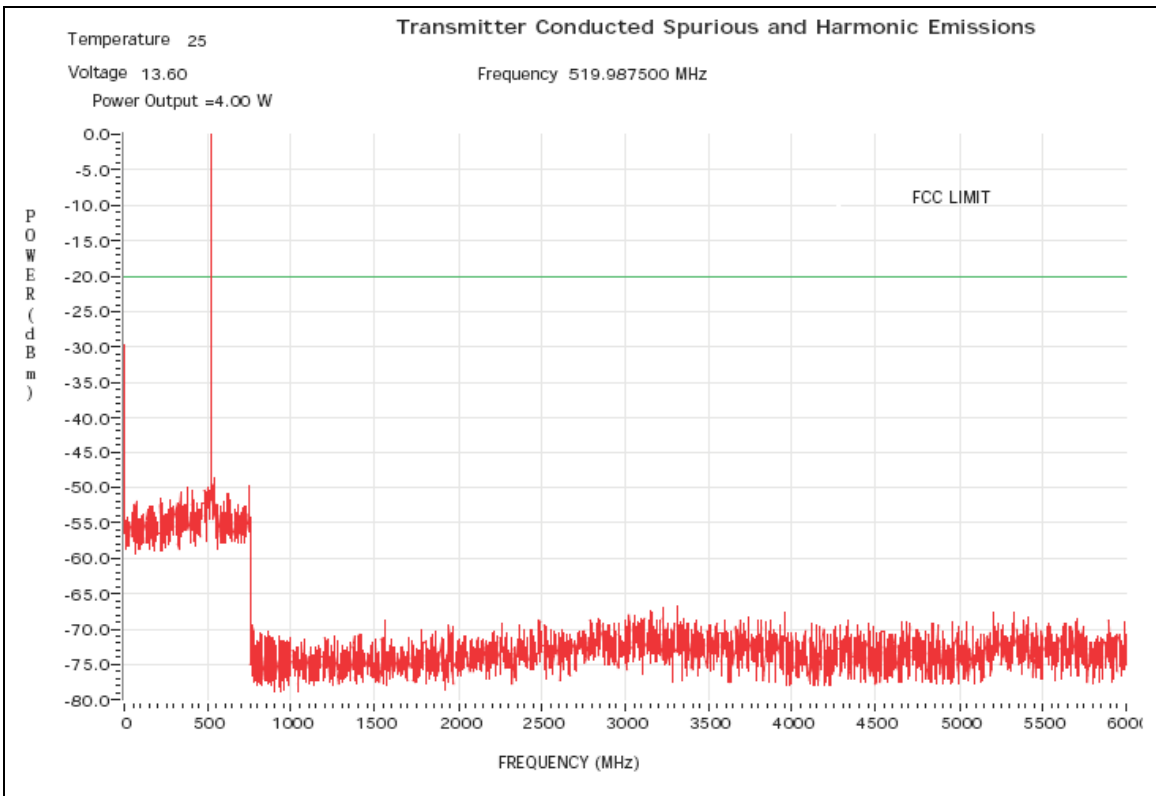


Figure 6G-25: 4W Harmonics of Carrier 519.9875 MHz

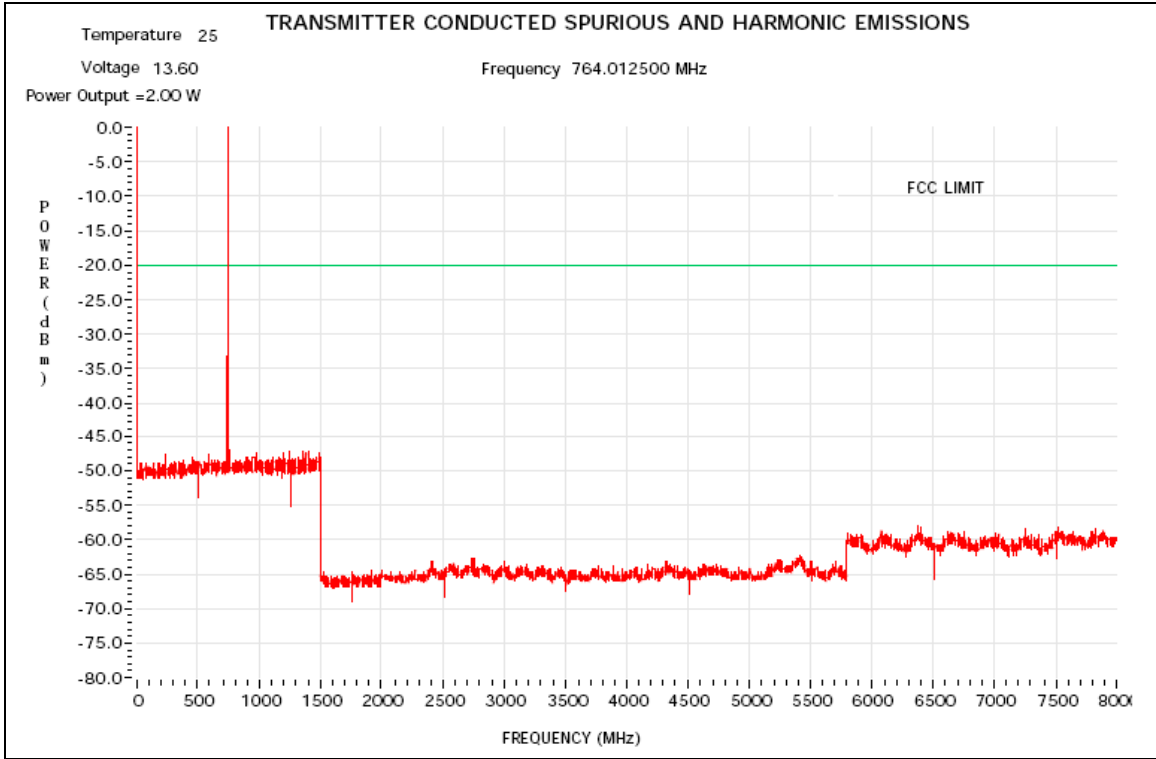


Figure 6G-26: 2W Harmonic of Carrier 764.0125 MHz

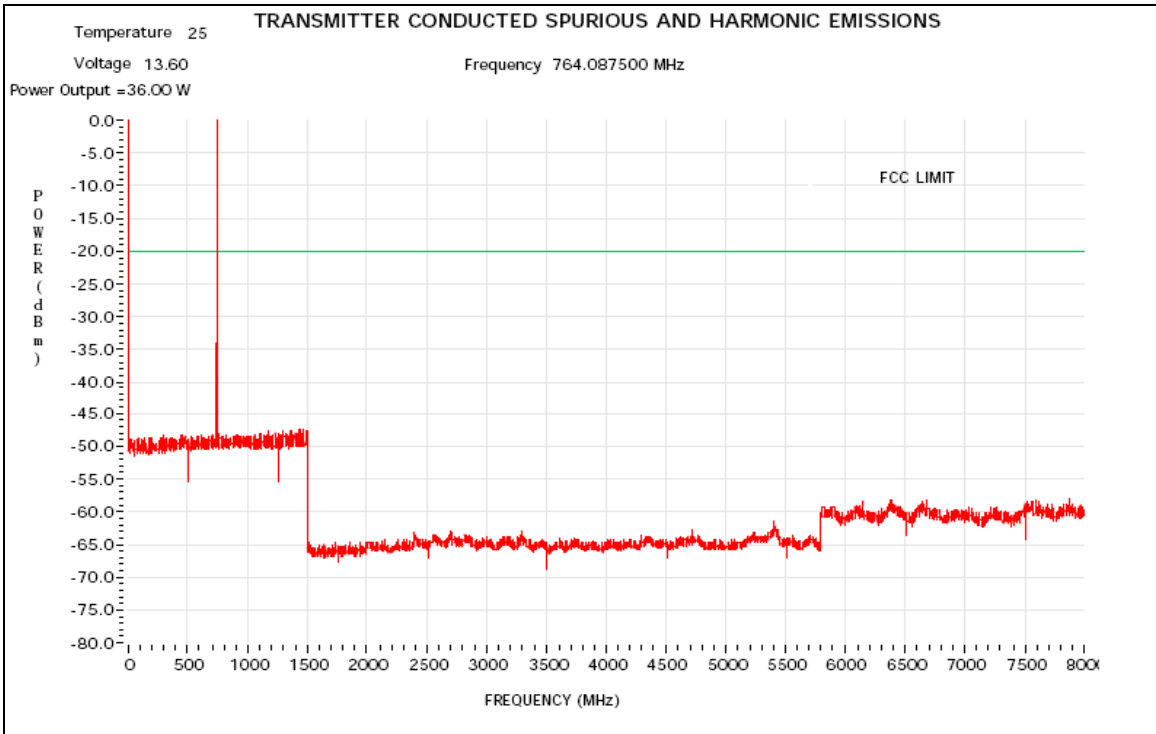


Figure 6G-27: 36W Harmonic of Carrier 764.0875 MHz

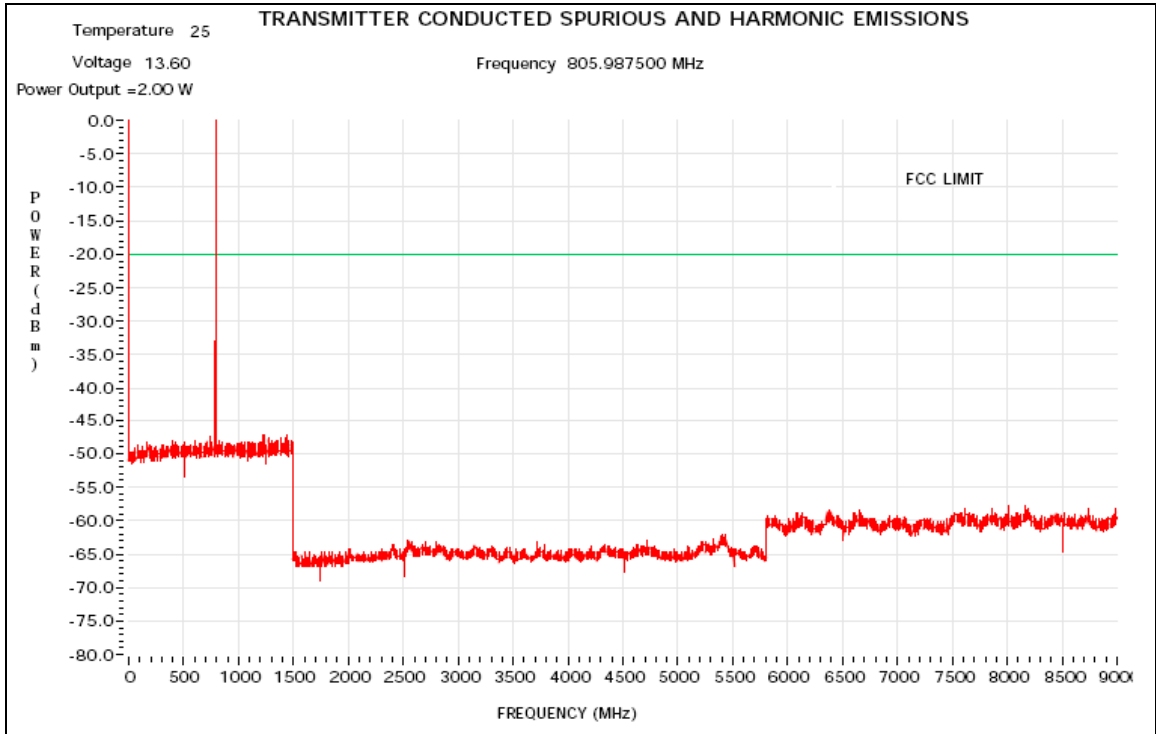


Figure 6G-28: 2W Harmonic of Carrier 805.9875MHz

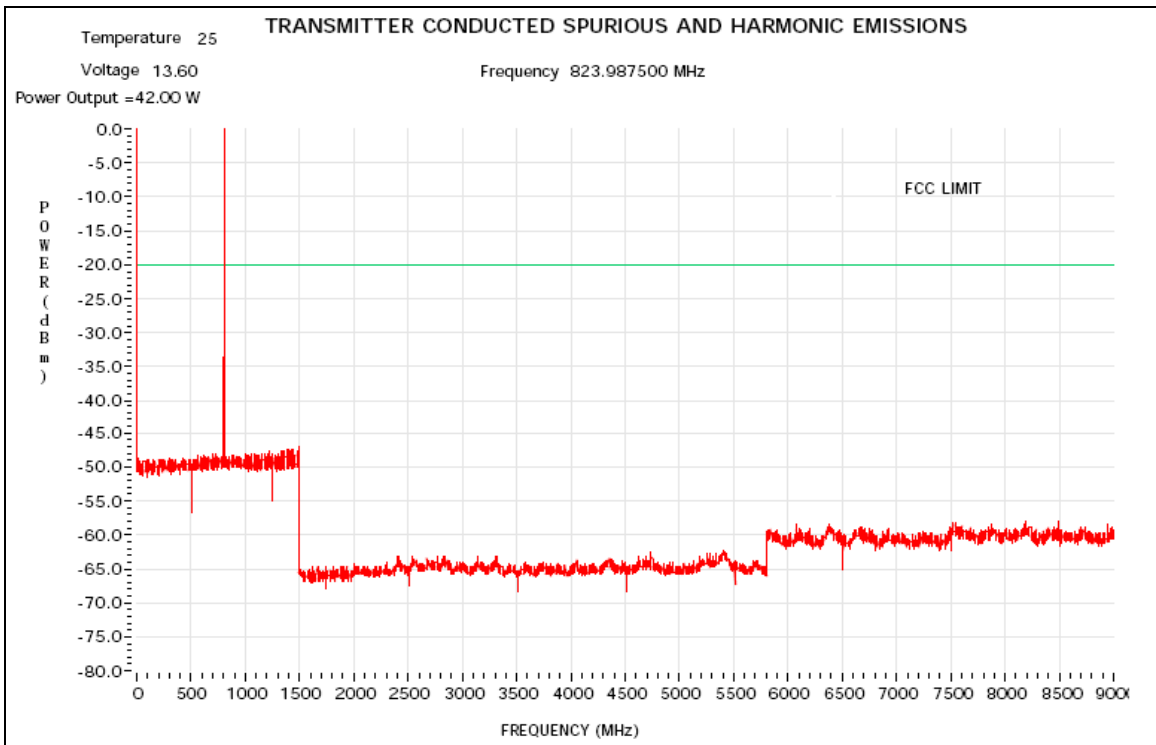


Figure 6G-29: 42W Harmonic of Carrier 823.9875 MHz

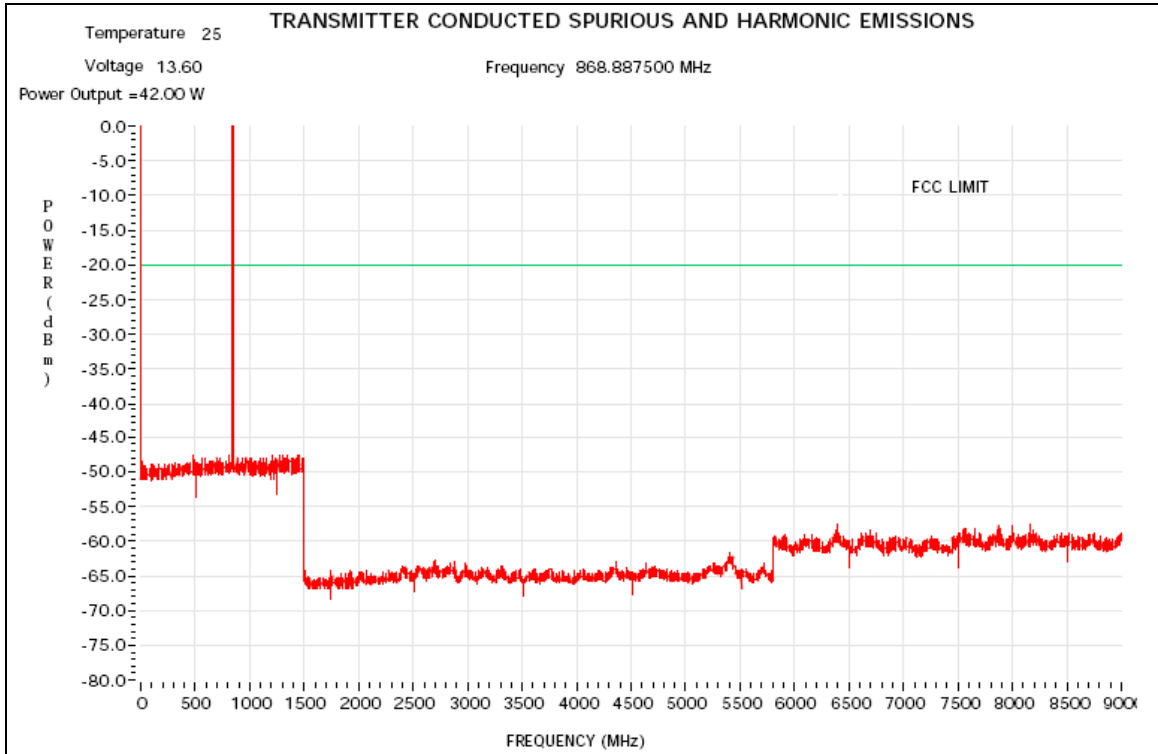


Figure 6G-30: 42W Harmonic of Carrier 868.8875 MHz

TDMA- F2

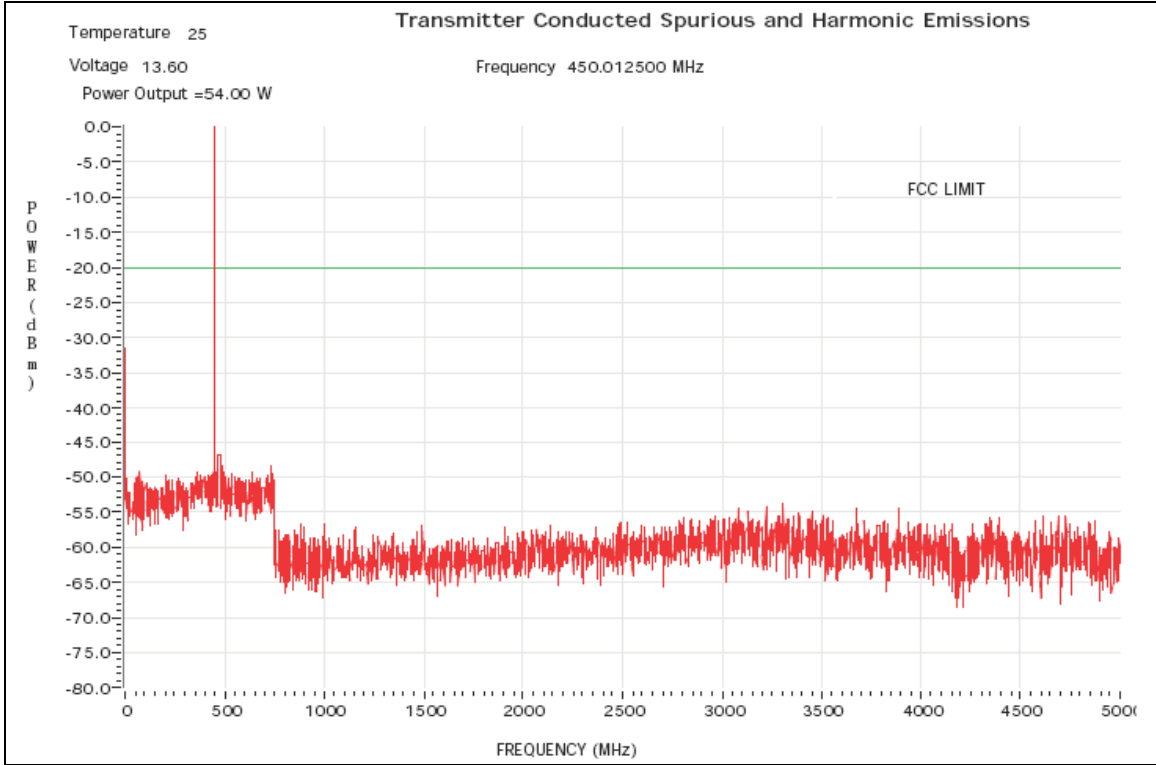


Figure 6G-31: 54W Harmonics of Carrier 450.0125 MHz

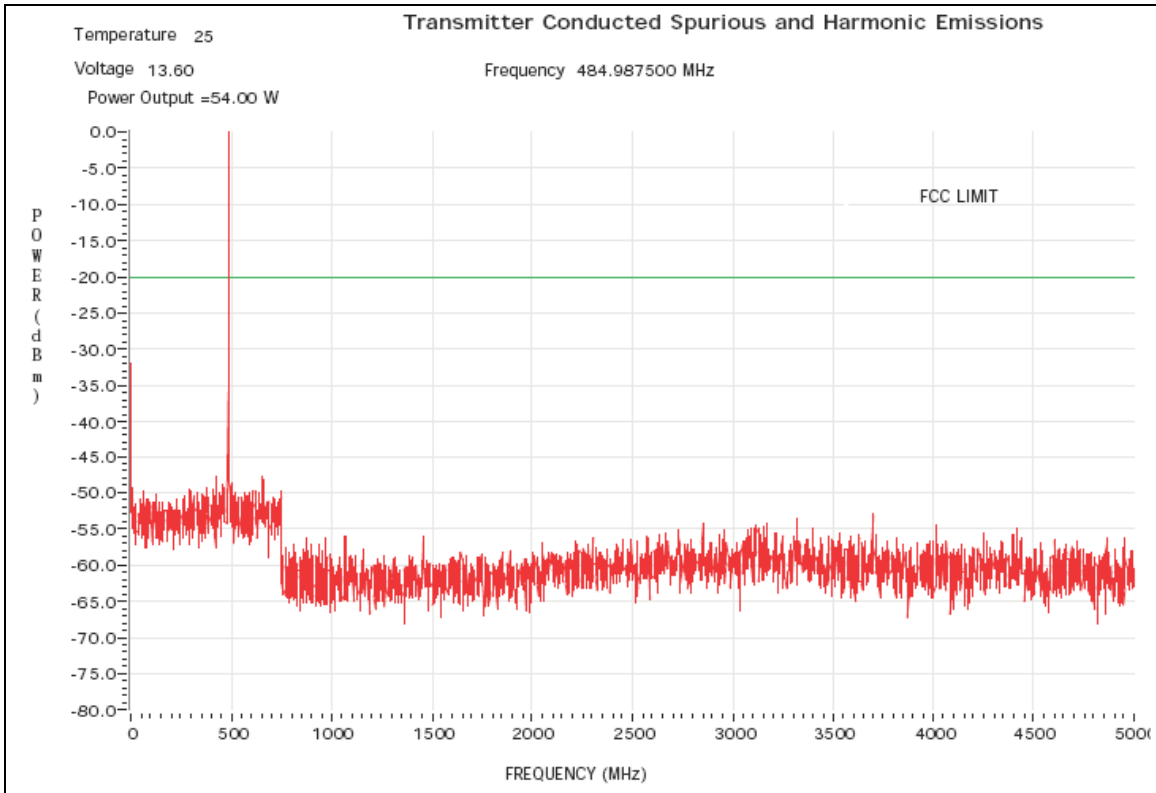


Figure 6G-32: 54W Harmonics of Carrier 484.9875 MHz

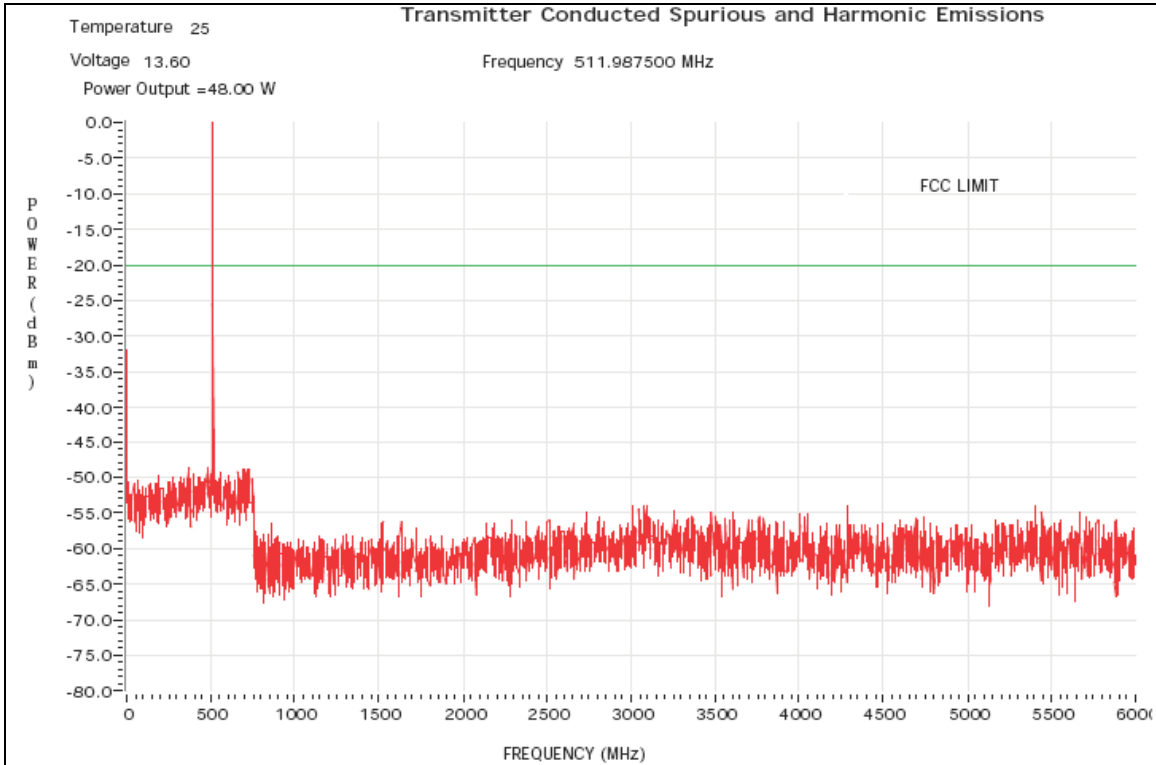


Figure 6G-33: 48W Harmonics of Carrier 511.9875 MHz

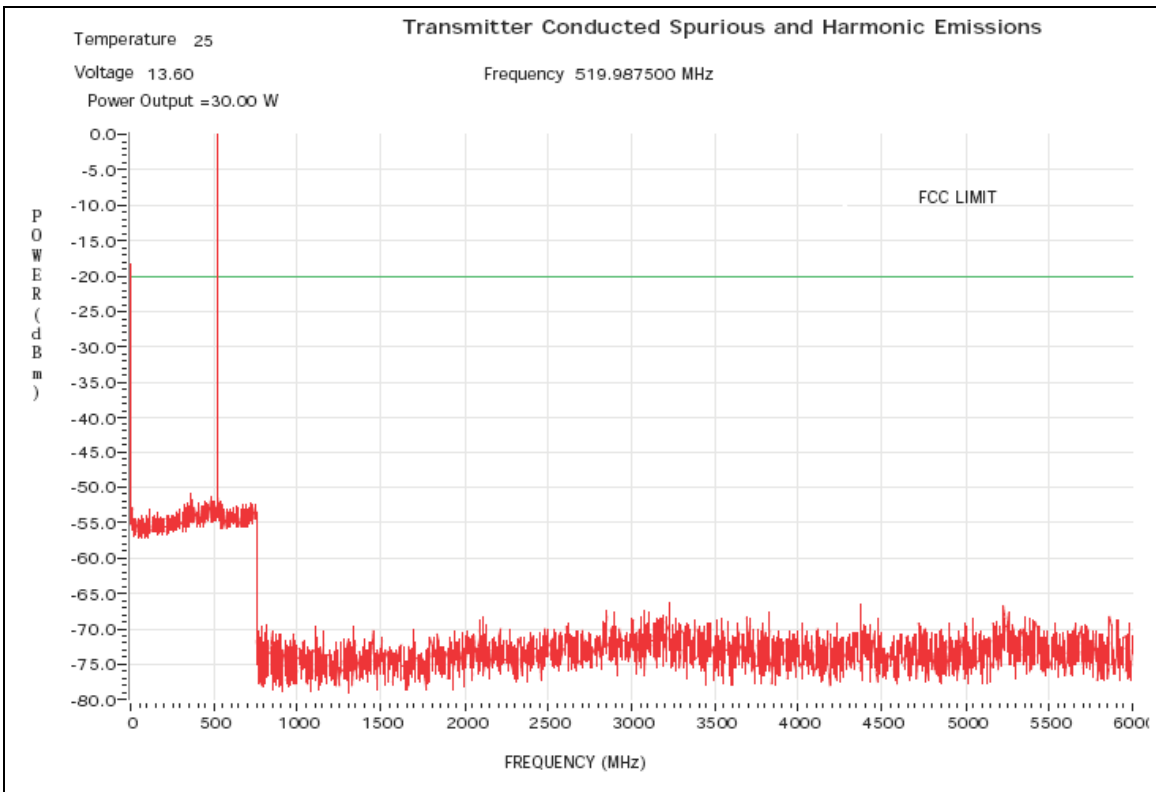


Figure 6G-34: 30W Harmonics of Carrier 519.9875 MHz



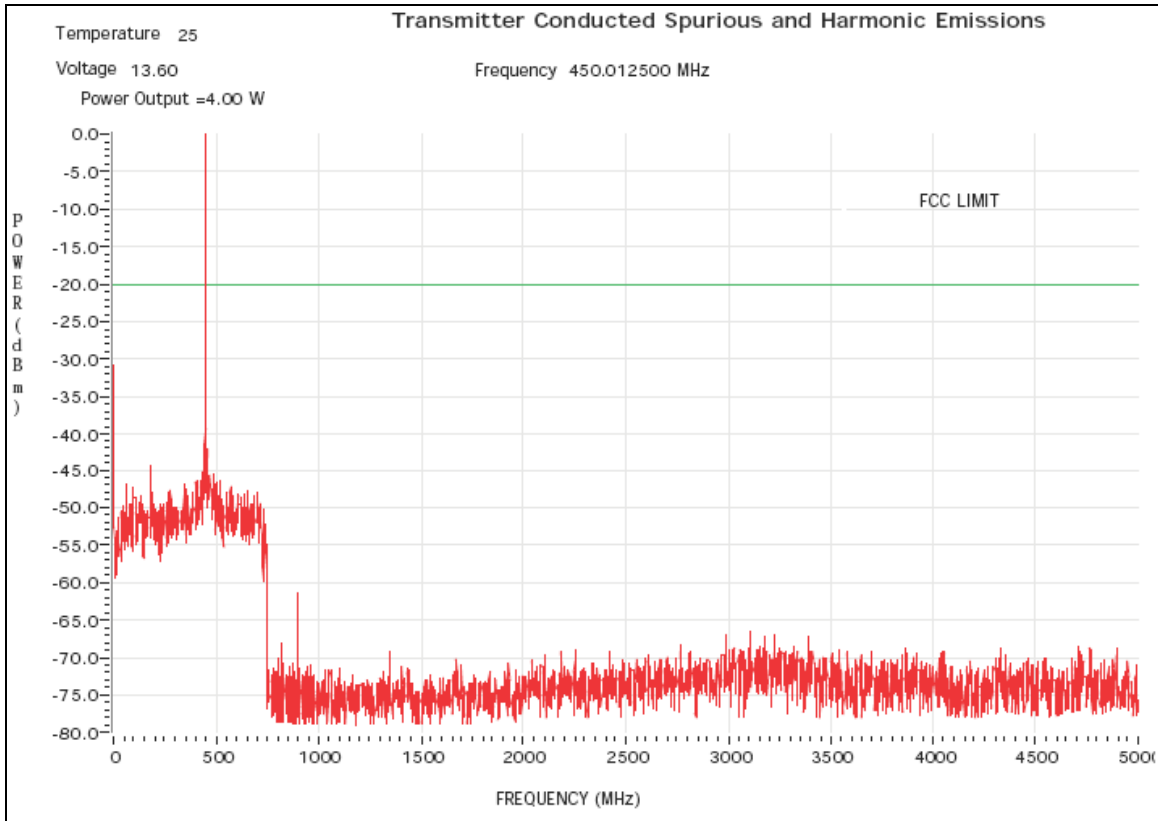


Figure 6G-35: 4W Harmonics of Carrier 450.0125 MHz

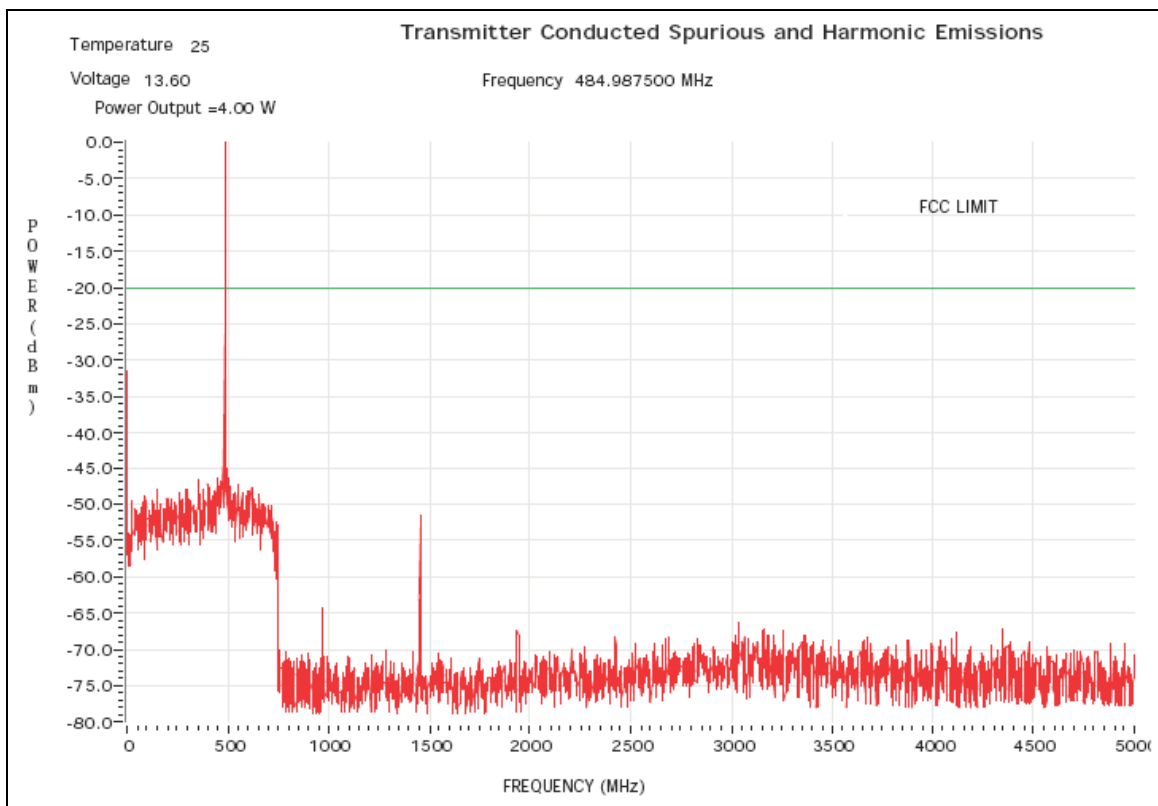


Figure 6G-36: 4W Harmonics of Carrier 484.9875 MHz

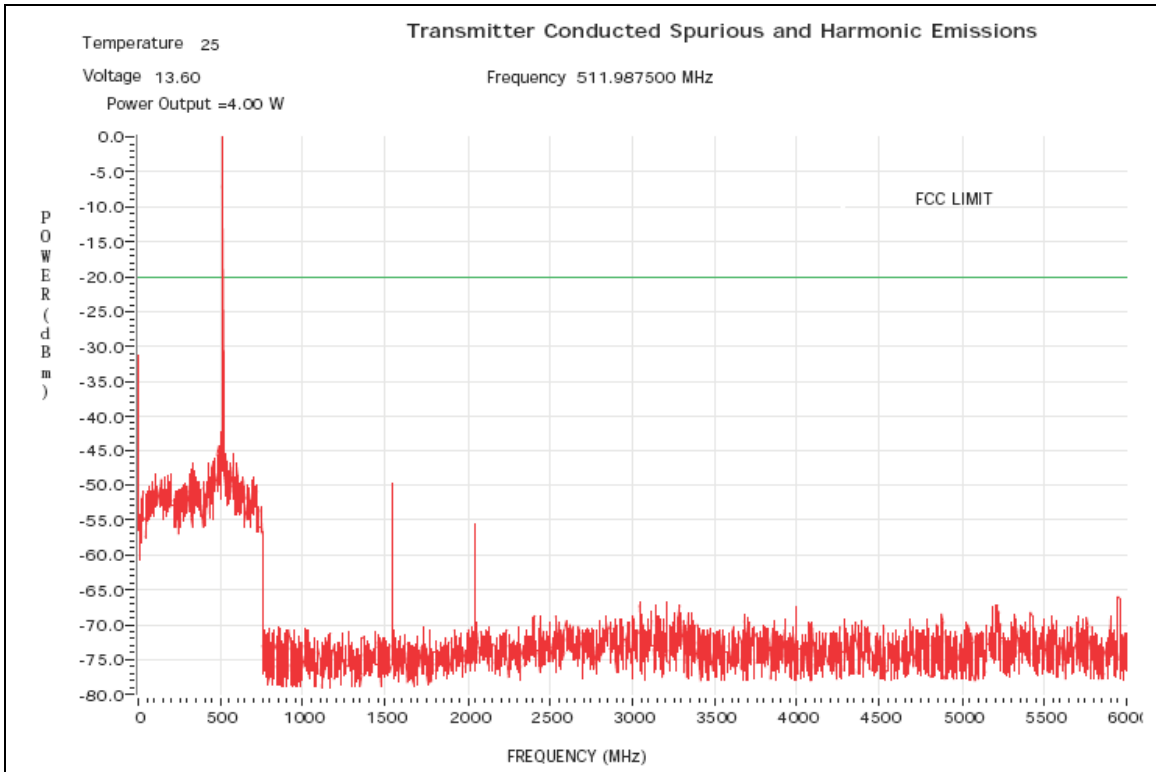


Figure 6G-37: 4W Harmonics of Carrier 511.9875 MHz

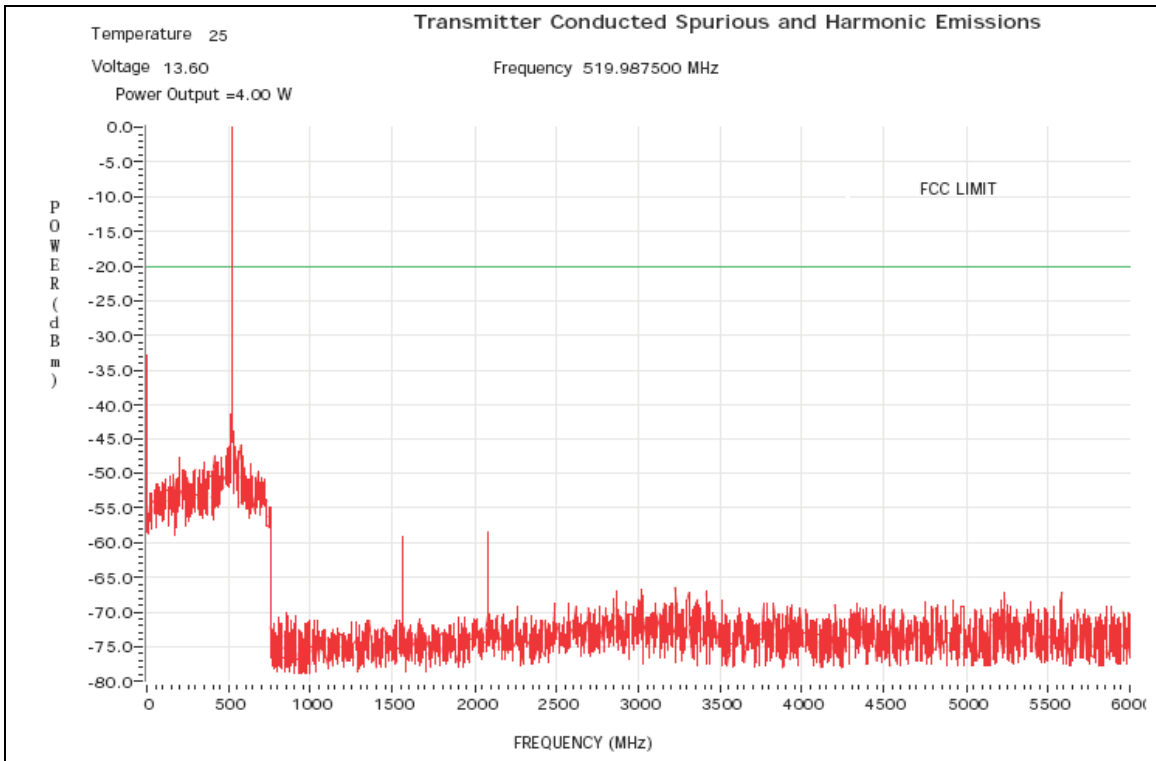


Figure 6G-38: 4W Harmonics of Carrier 519.9875 MHz

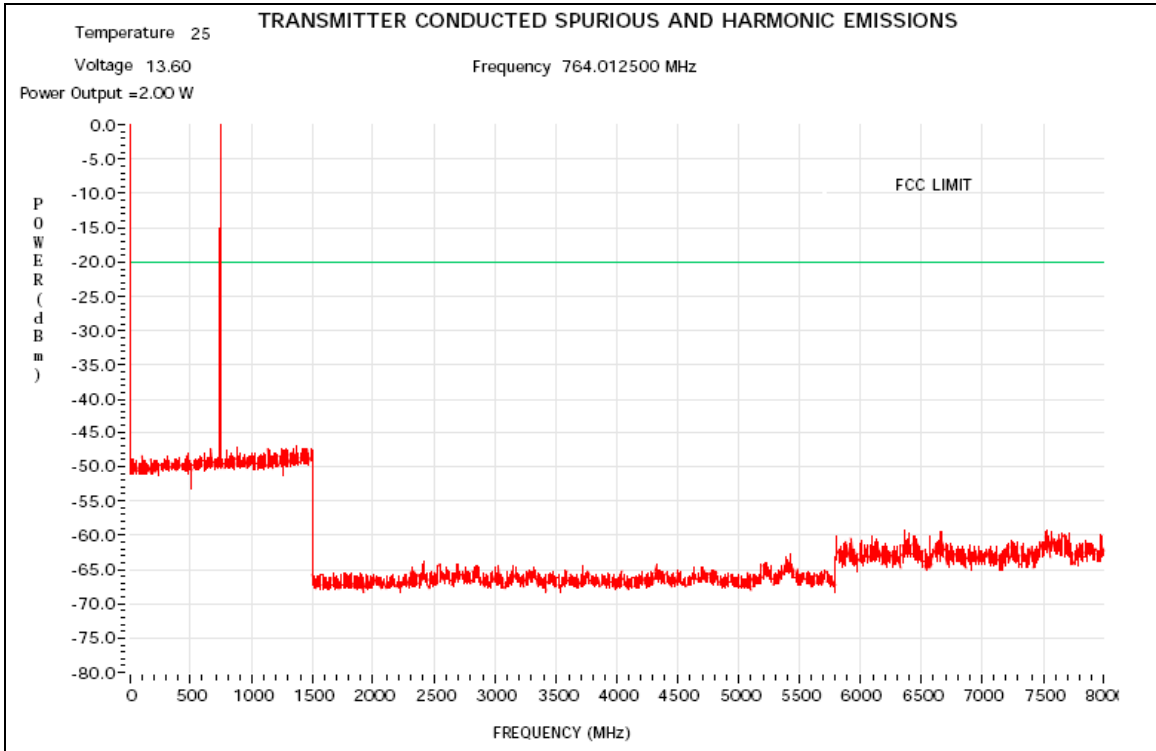


Figure 6G-39: 2W Harmonic of Carrier 764.0125 MHz

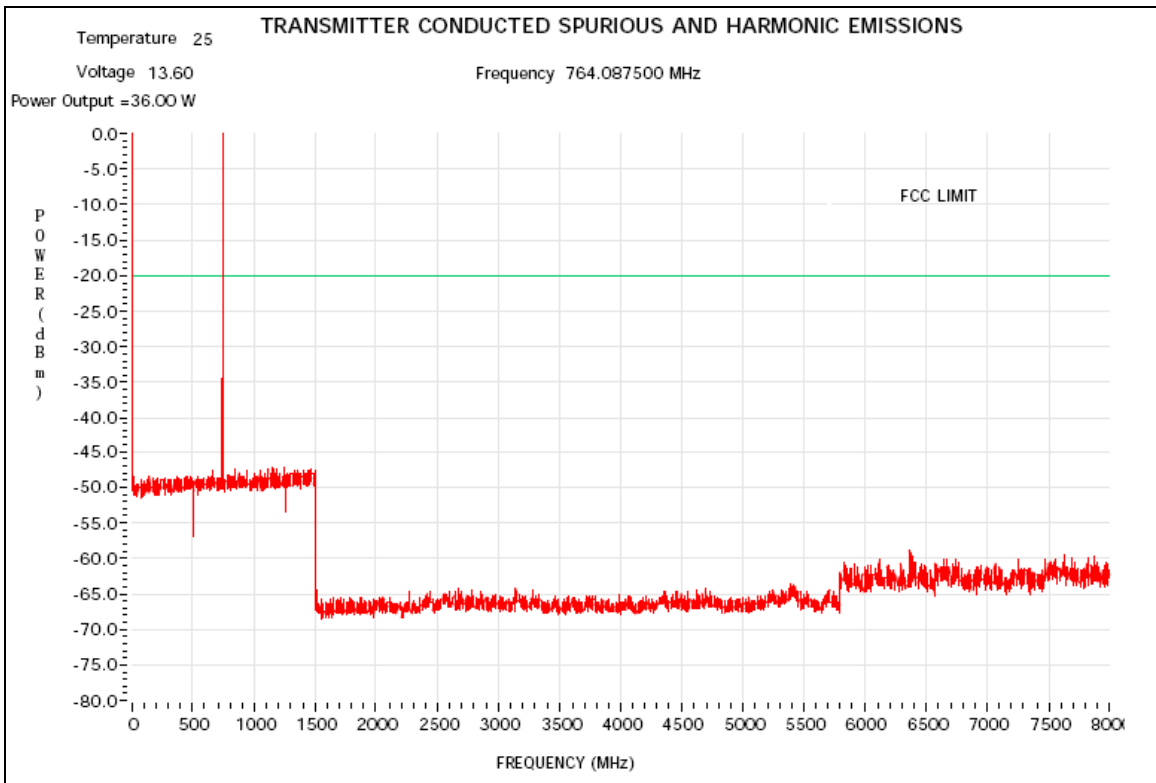


Figure 6G-40: 36W Harmonic of Carrier 764.0875 MHz

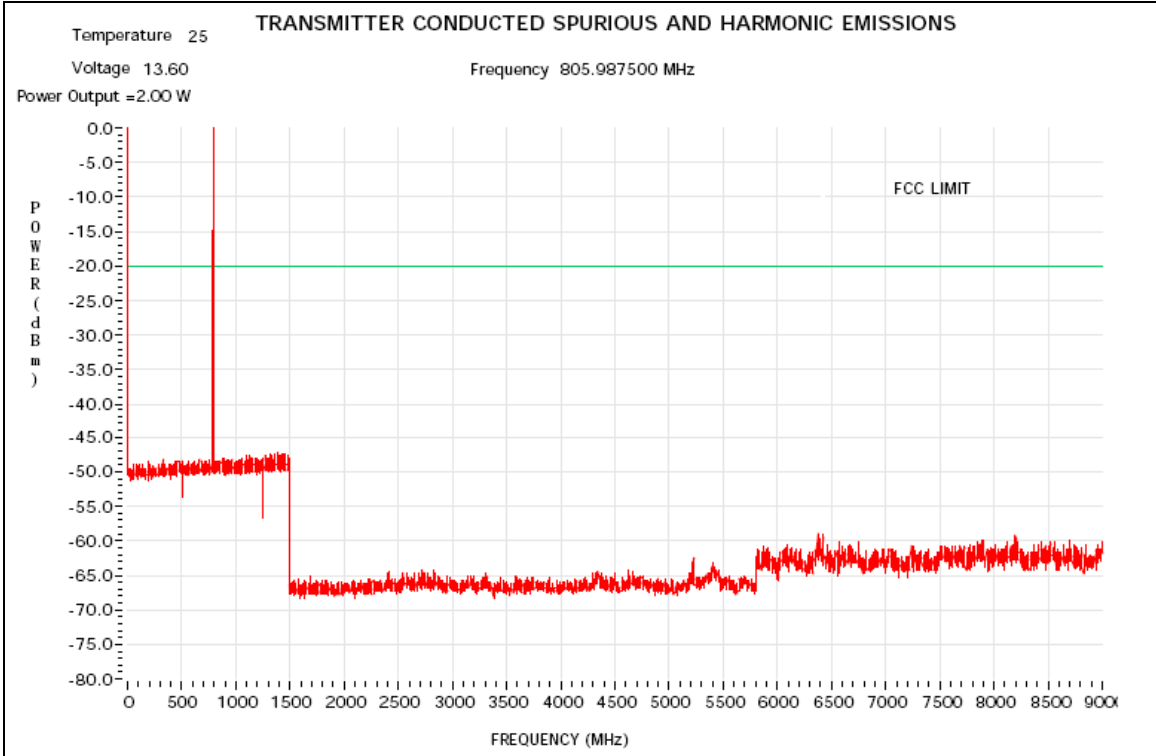


Figure 6G-41: 2W Harmonic of Carrier 805.9875 MHz

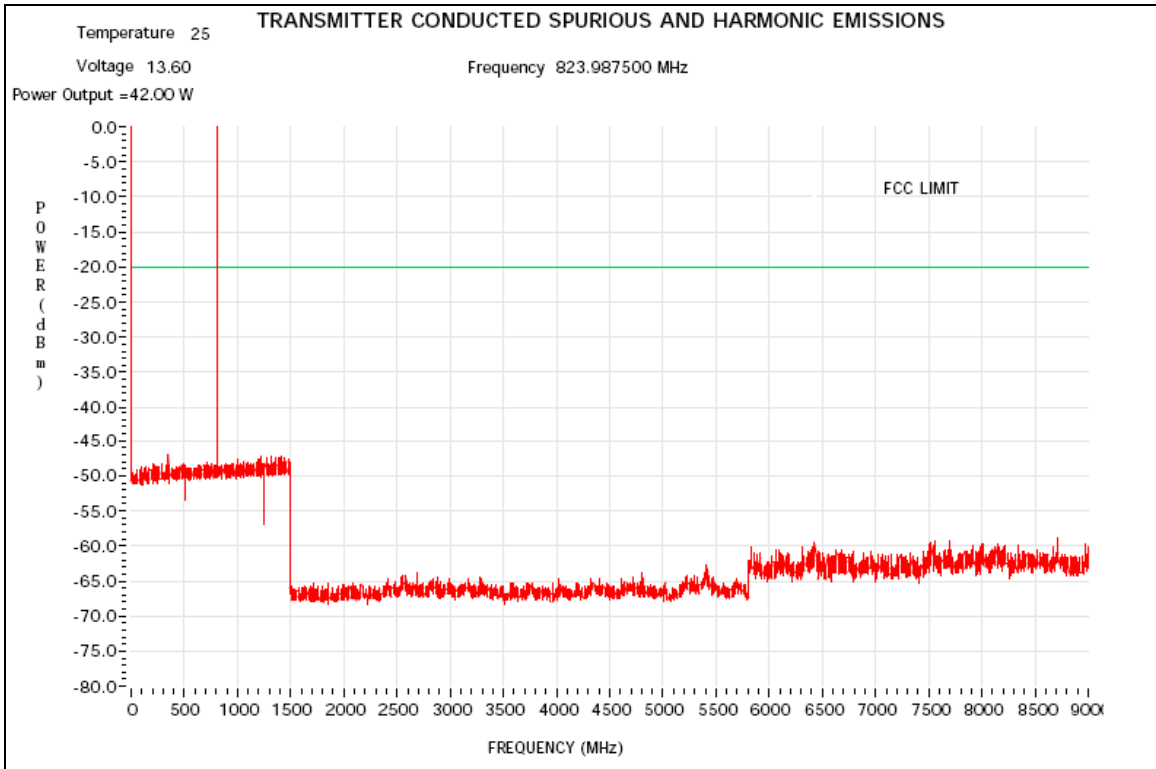


Figure 6G-42: 42W Harmonic of Carrier 823.9875 MHz

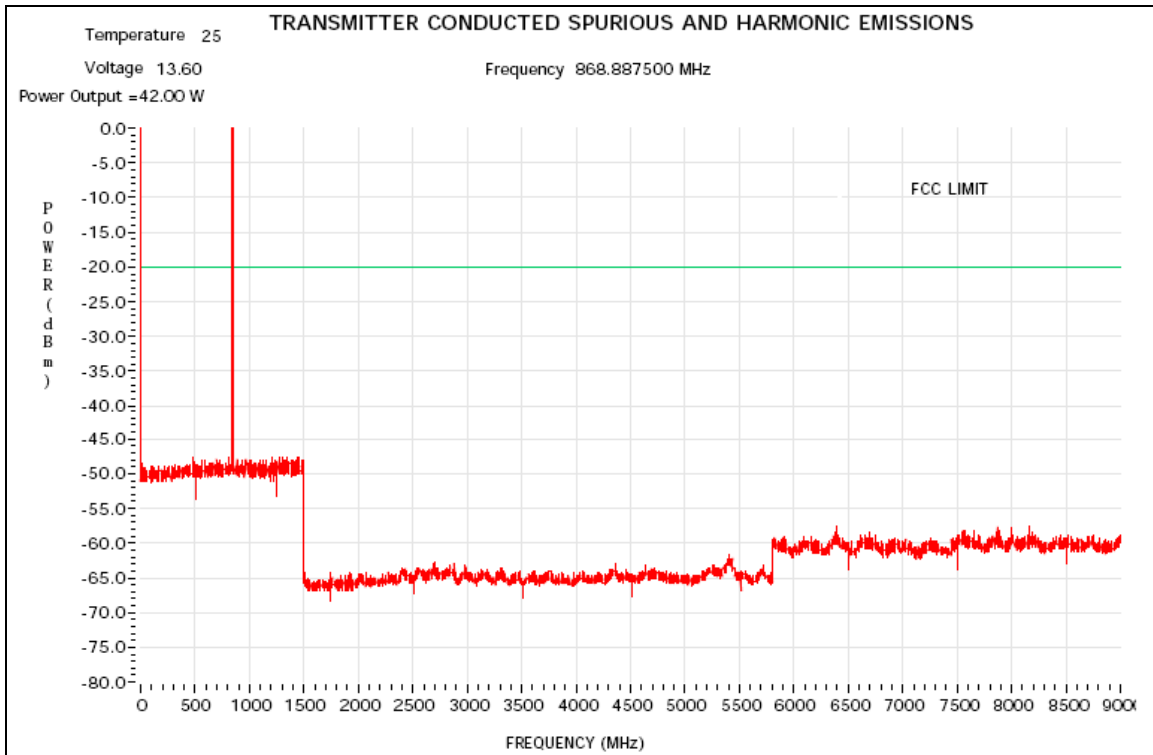
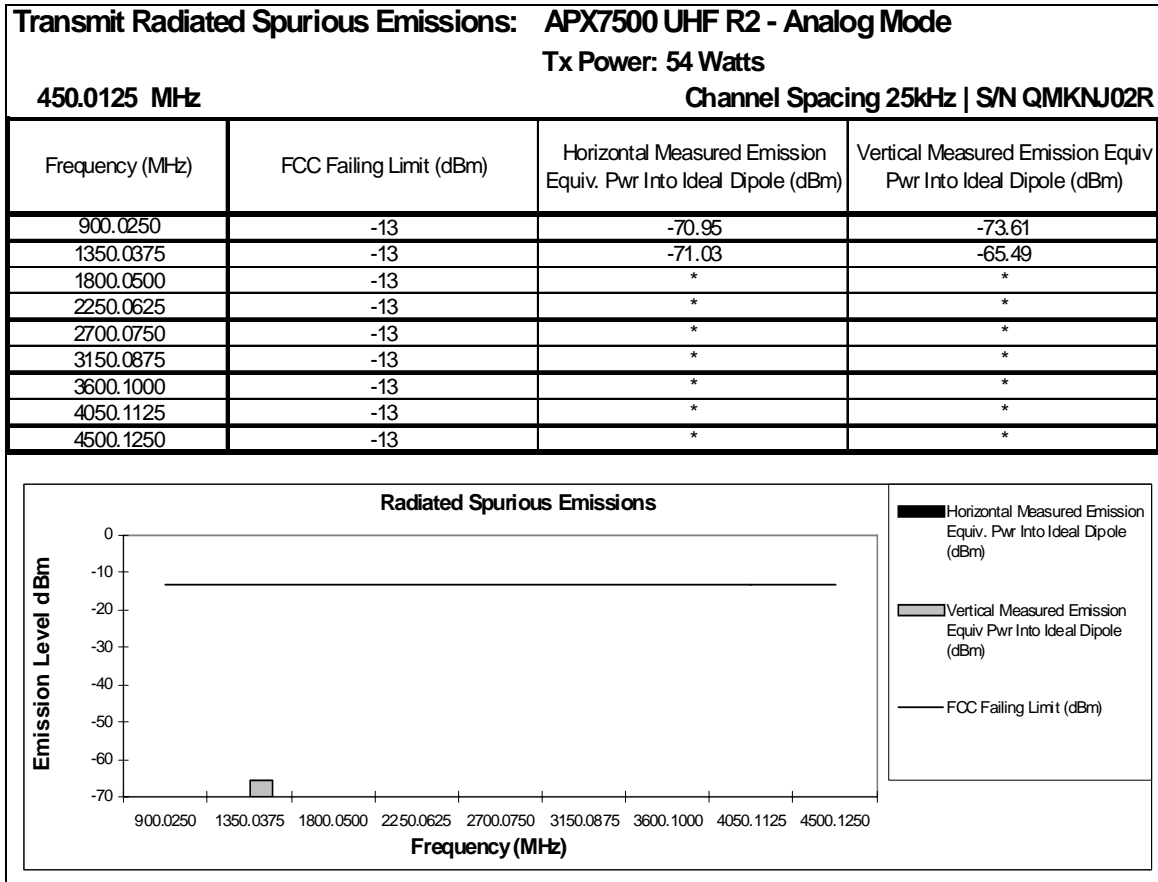


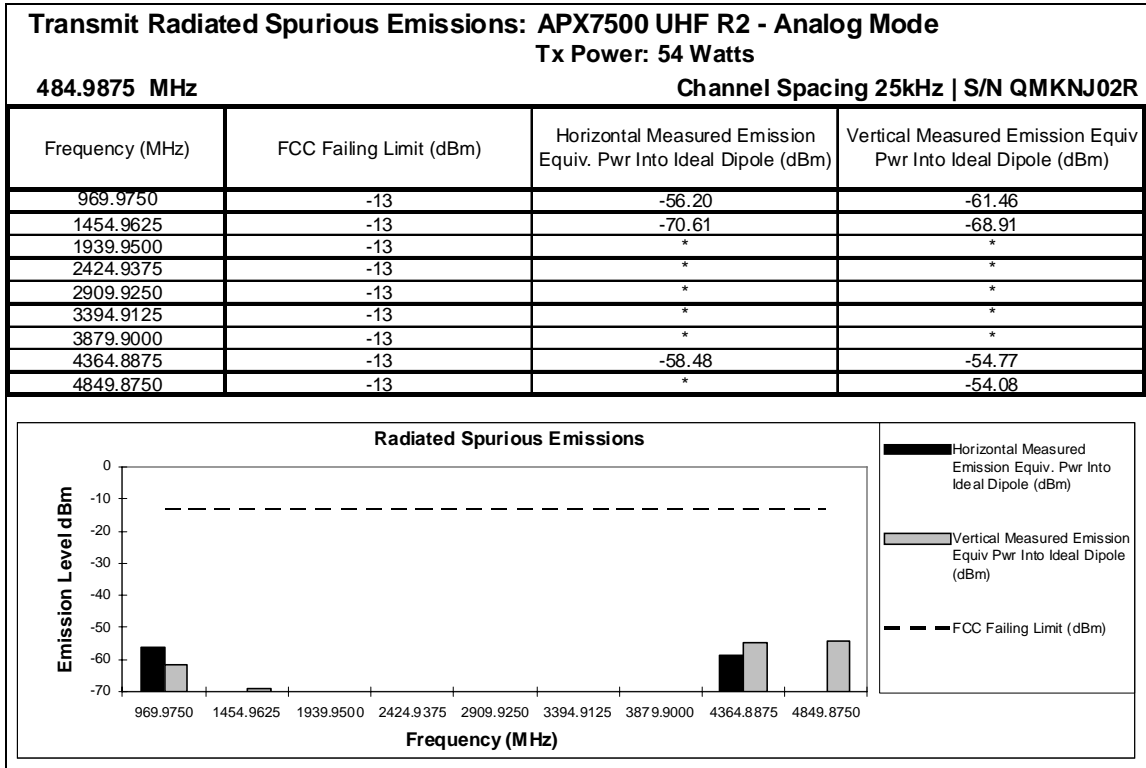
Figure 6G-43: 43W Harmonic of Carrier 868.8875 MHz

**EXHIBIT 6H**  
**Radiated Spurious Emissions - Pursuant 47 CFR 2.1051 and 2.1033(c)(13)**

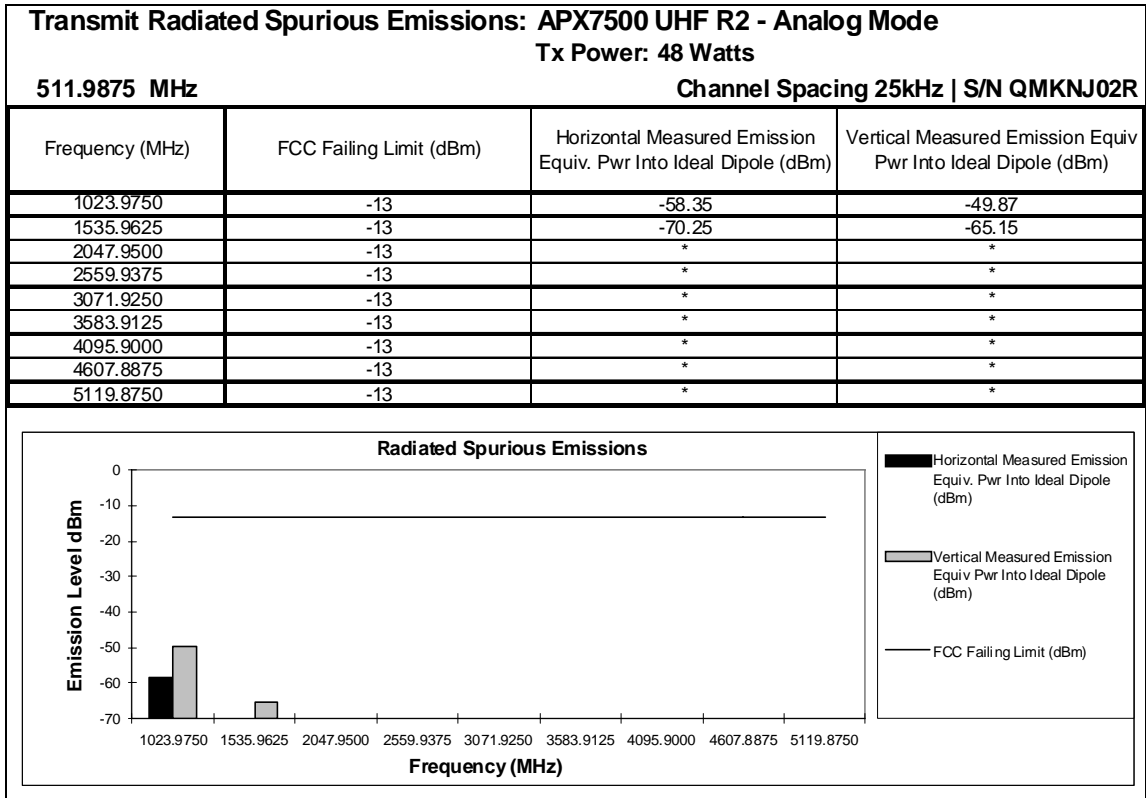
**UHF Range 2**



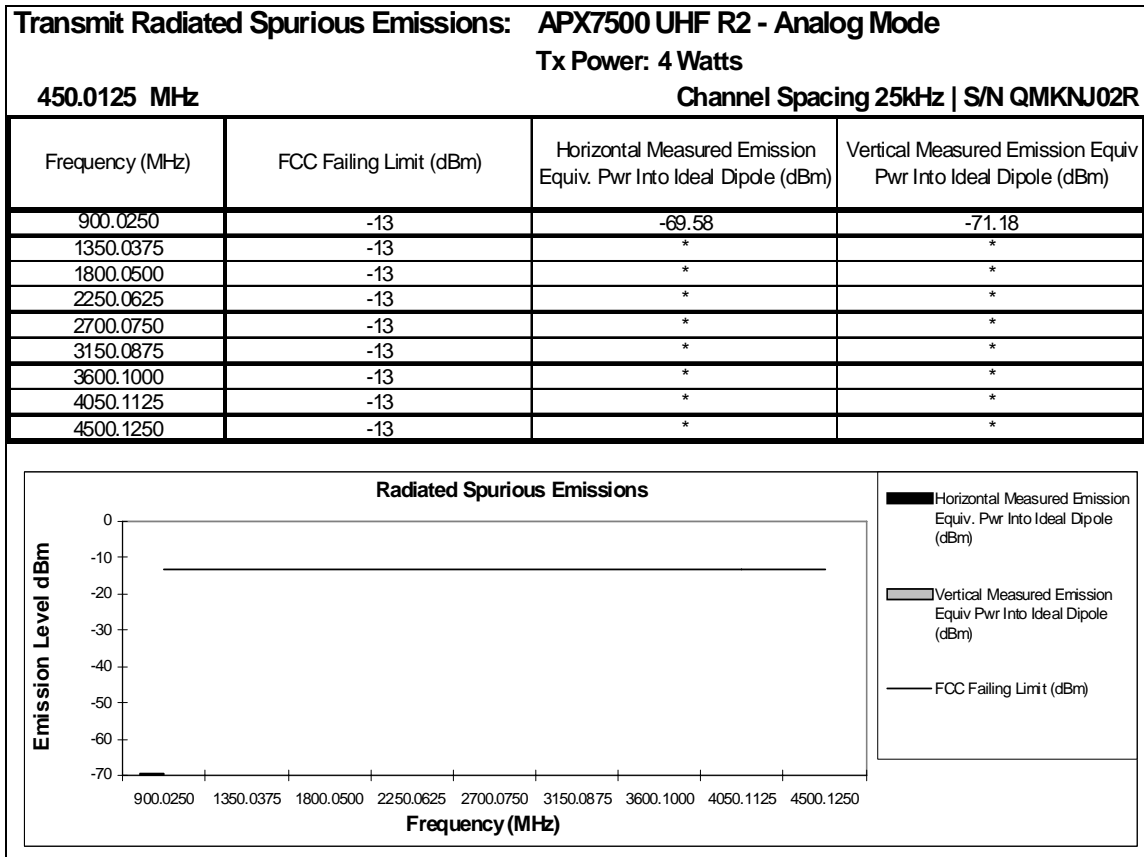
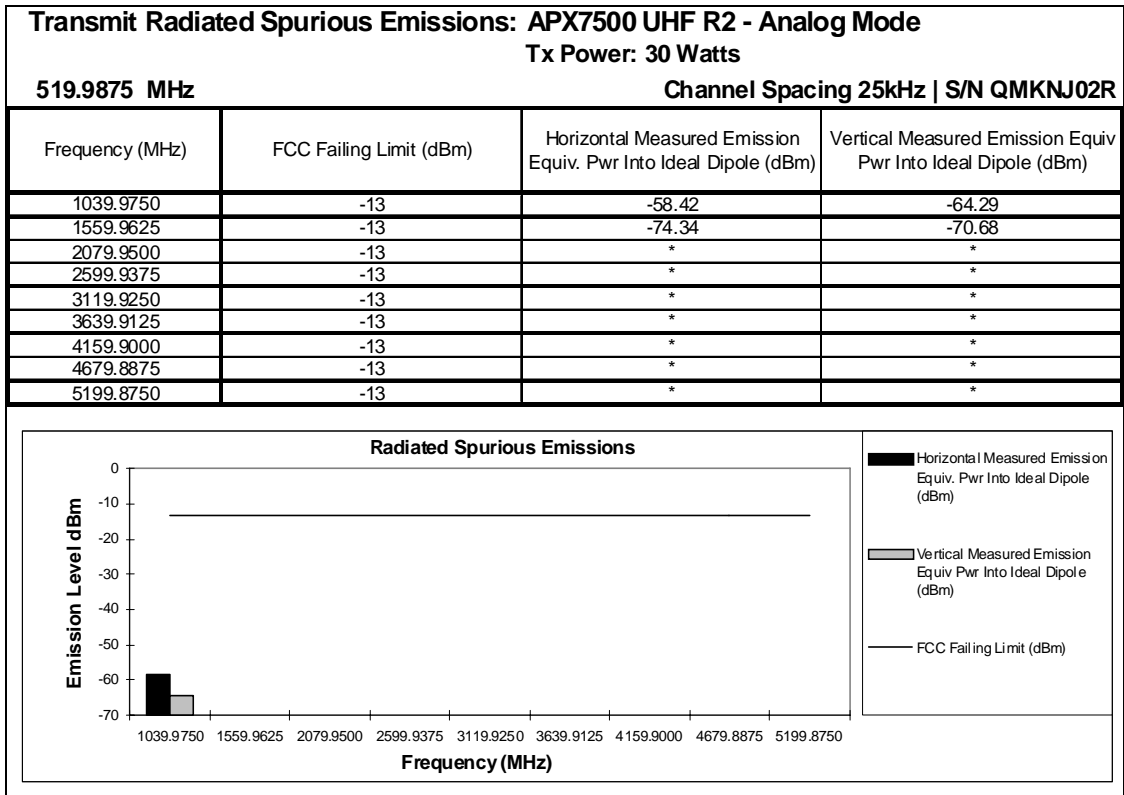
**Figure 6H-1: 54W, 450.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)**



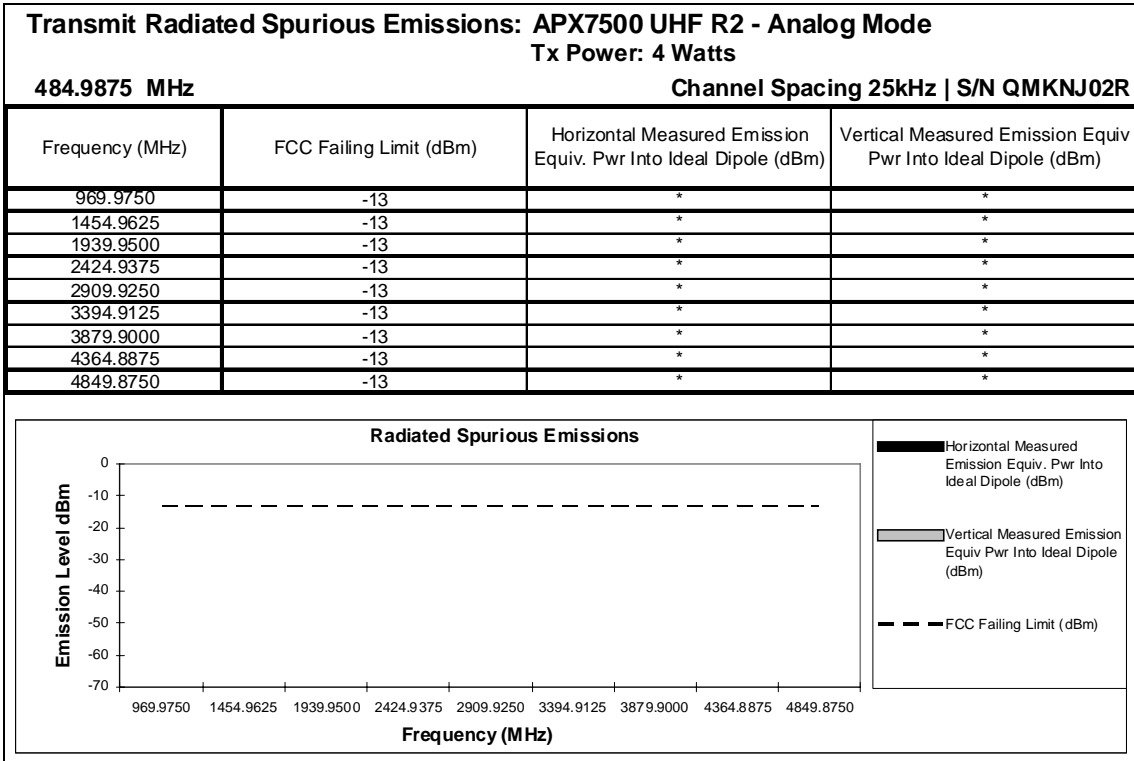
**Figure 6H-2: 54W, 484.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)**



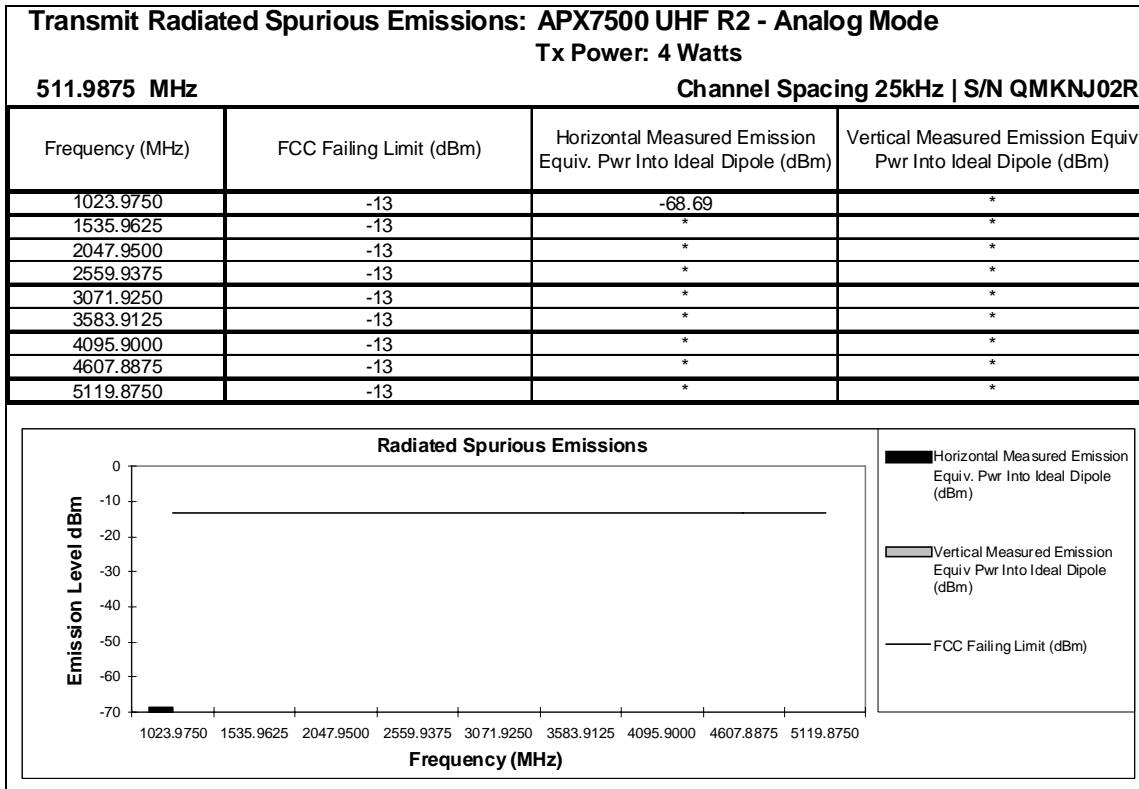
**Figure 6H-3: 48W, 511.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)**



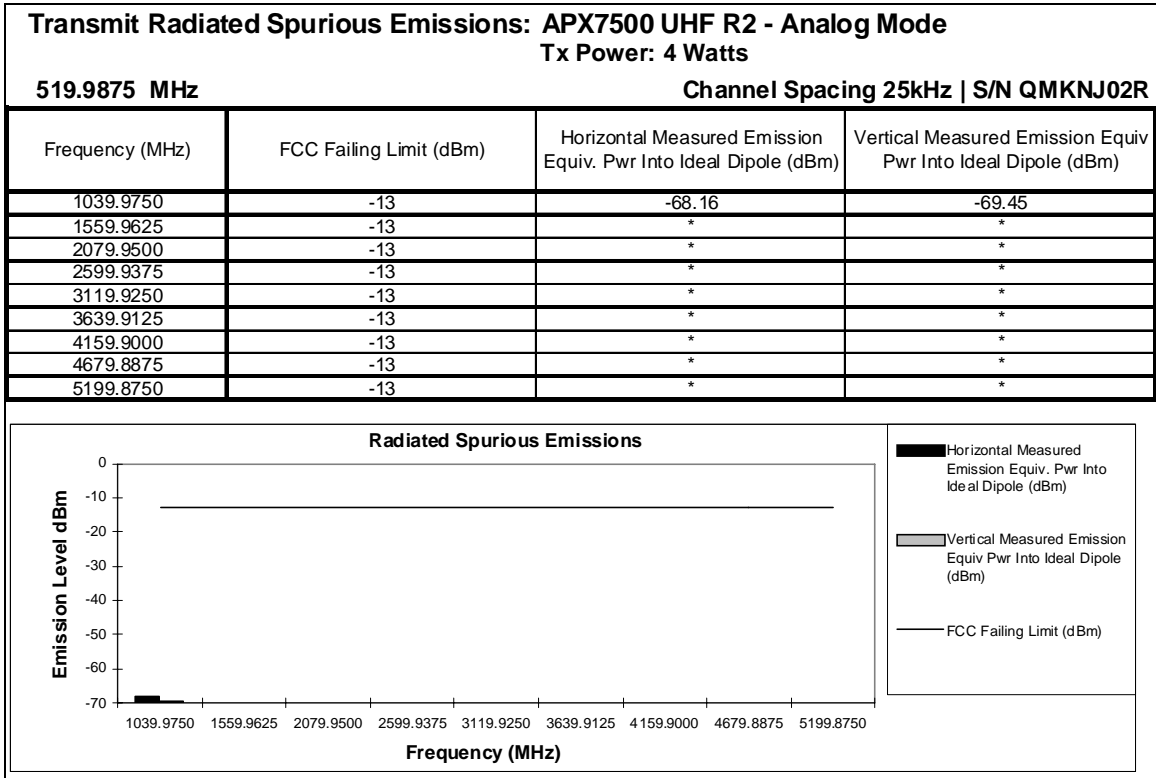




**Figure 6H-6: 4W, 484.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)**



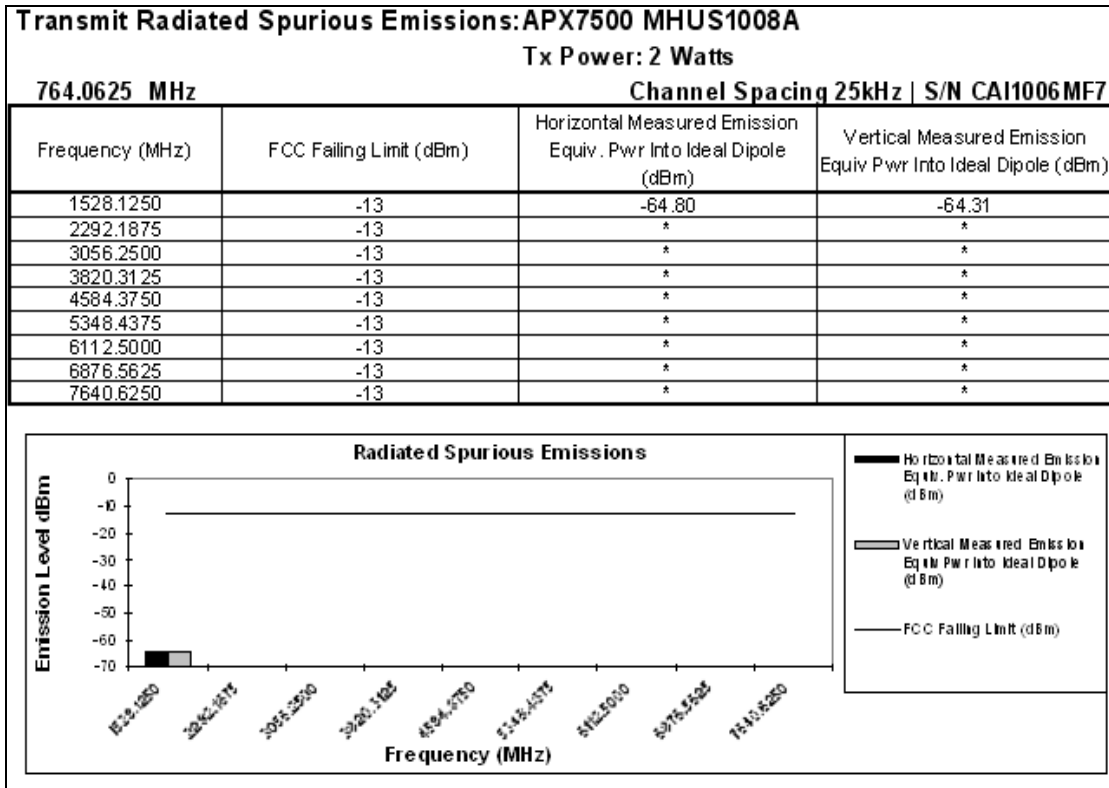
**Figure 6H-7: 4W, 511.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)**



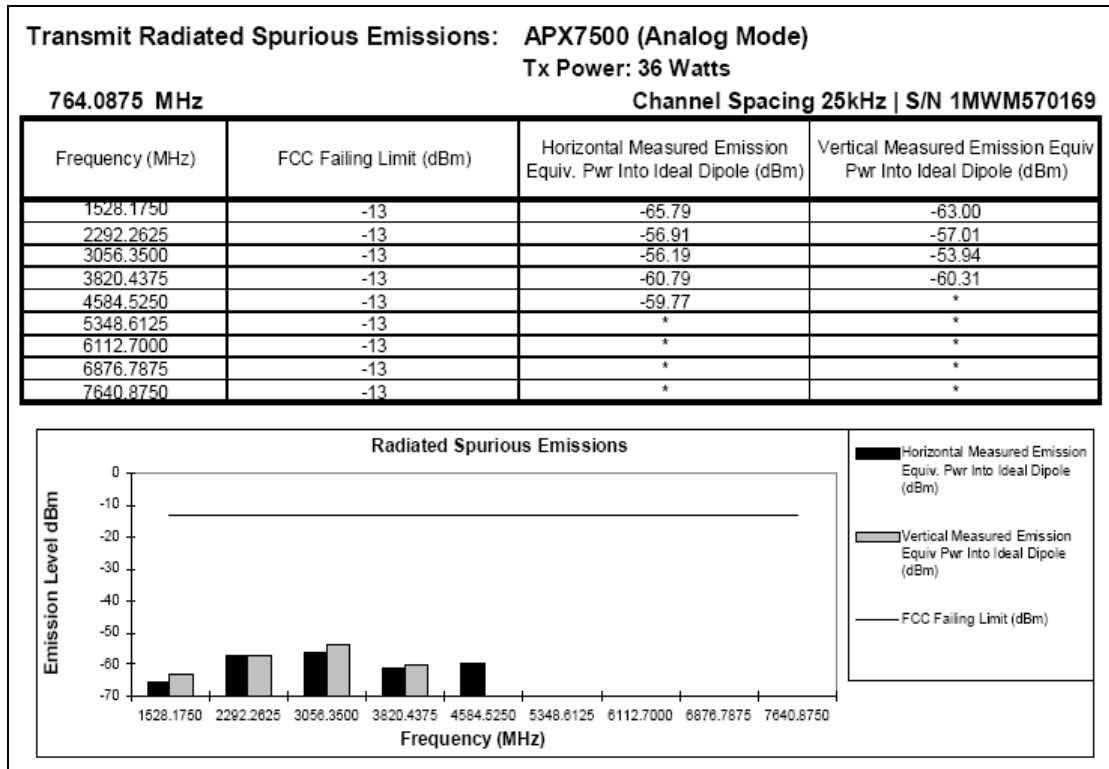
**Figure 6H-8: 4W, 519.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)**

\* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.  
 The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

**7/800**



**Figure 6H-9: 2W, 764.0625 MHz, 25 kHz Channel Spacing**



**Figure 6H-10: 36W, 764.0875MHz, 25 kHz Channel Spacing**

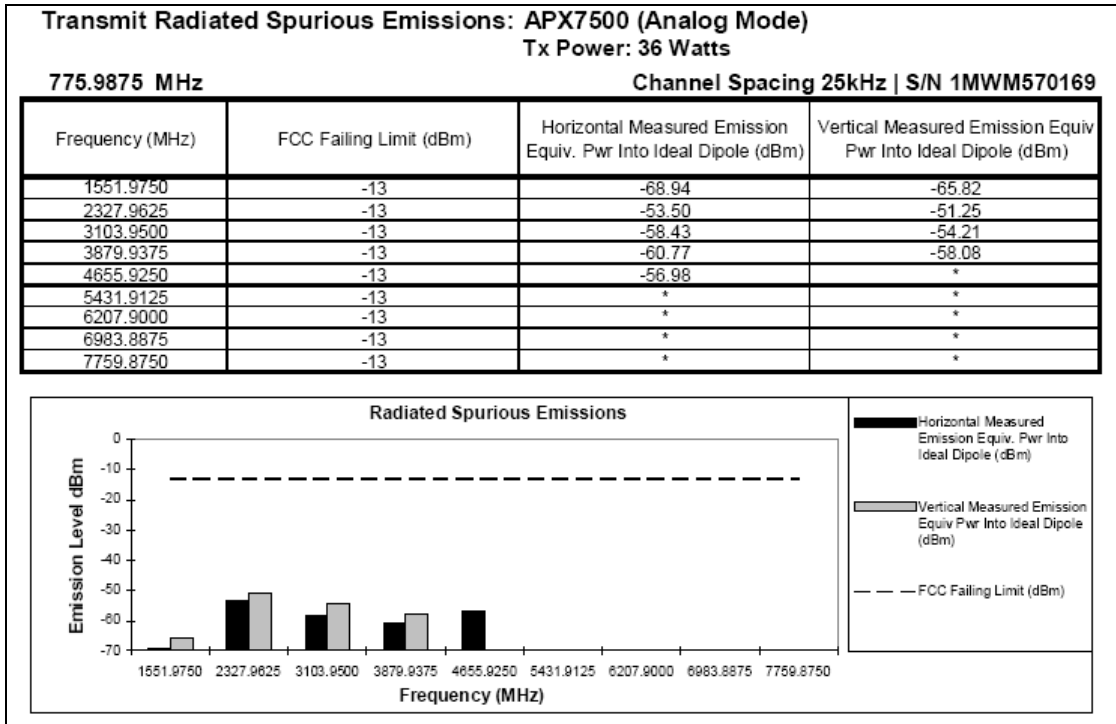


Figure 6H-11: 36W, 775.9875MHz, 25 kHz Channel Spacing

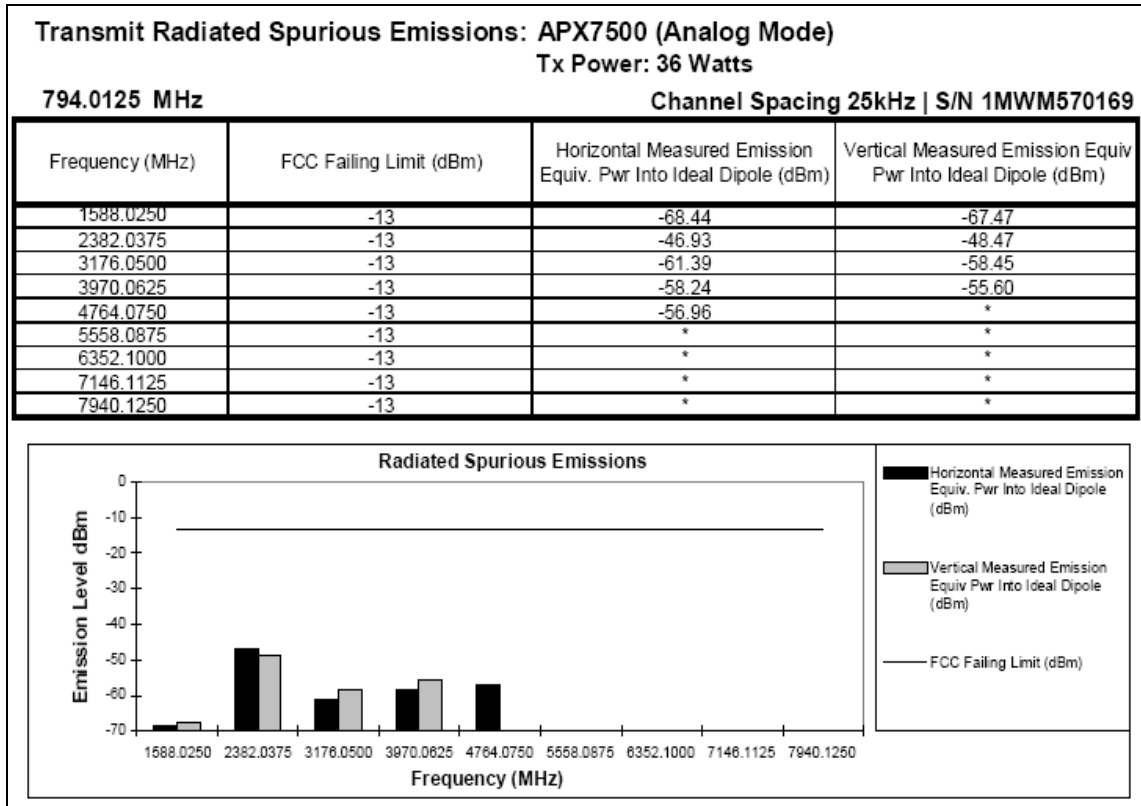


Figure 6H-12: 36W, 794.0125MHz, 25 kHz Channel Spacing

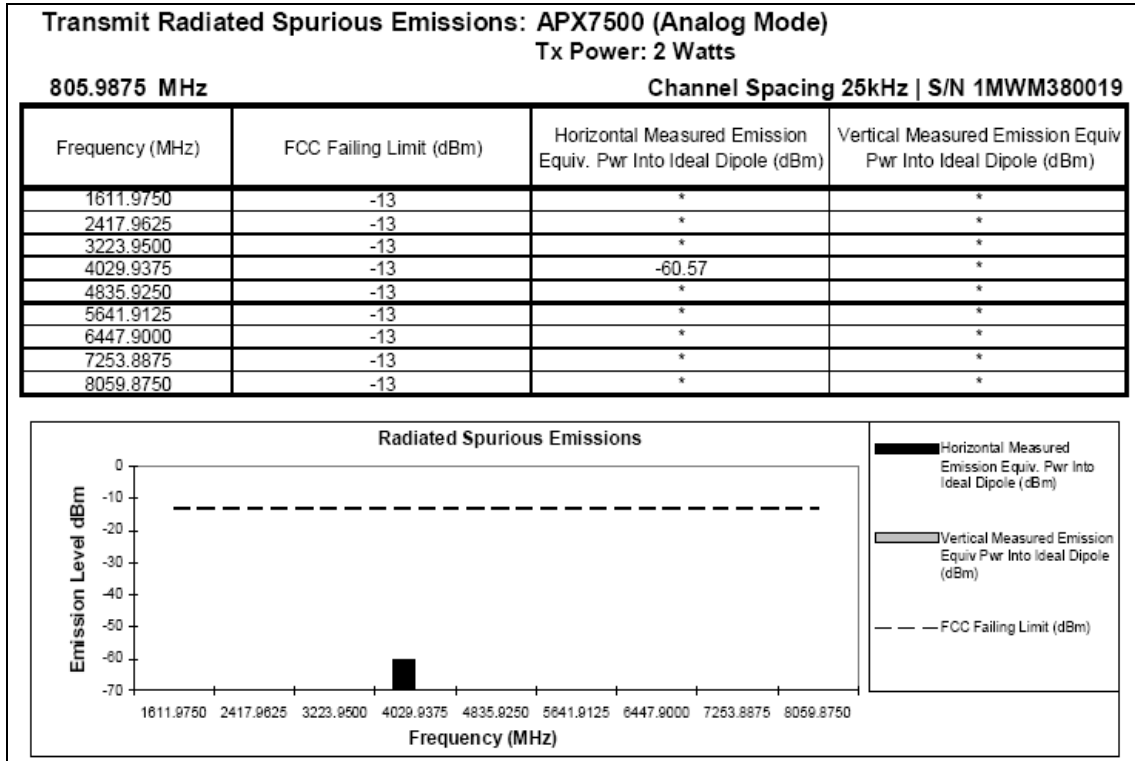


Figure 6H-13: 36W, 805.9875MHz, 25 kHz Channel Spacing

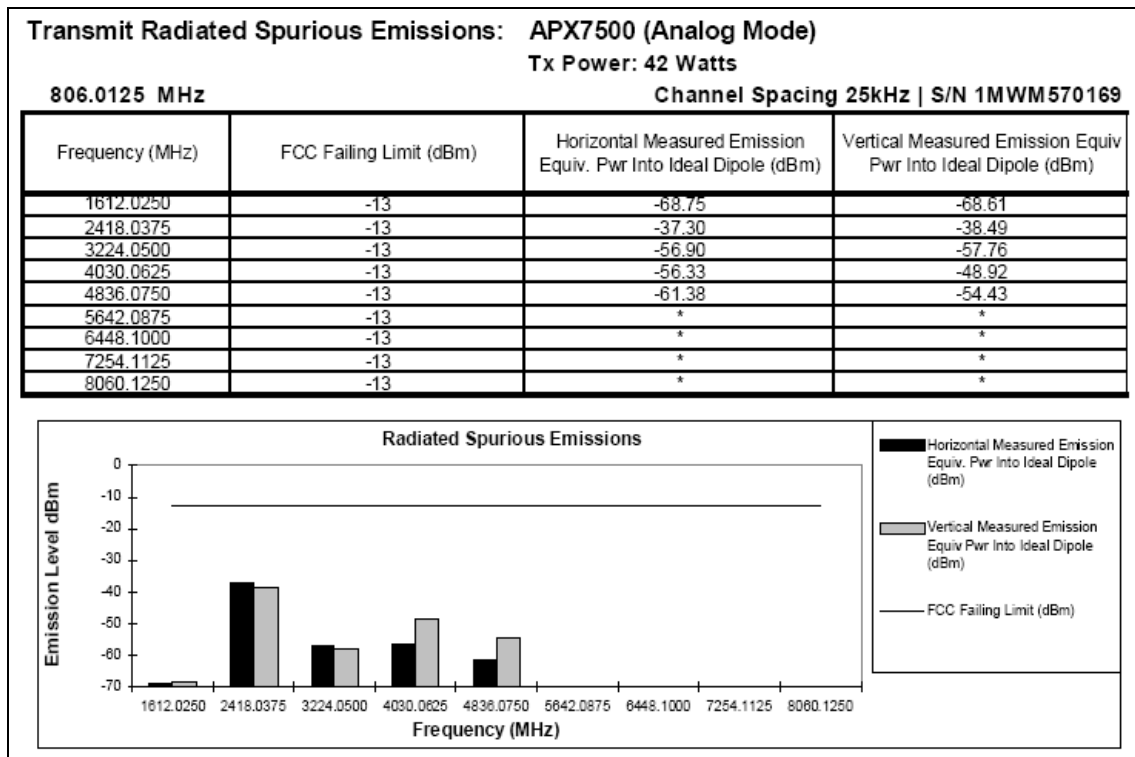


Figure 6H-14: 42W, 806.0125MHz, 25 kHz Channel Spacing

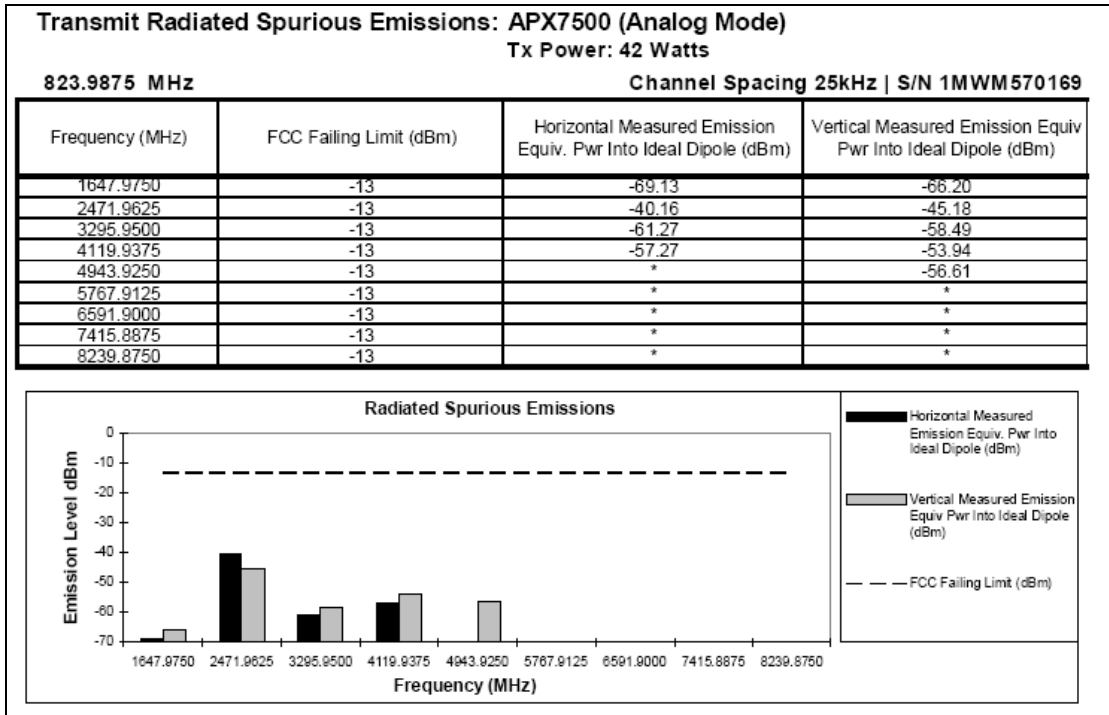


Figure 6H-15: 42W, 823.9875MHz, 25 kHz Channel Spacing

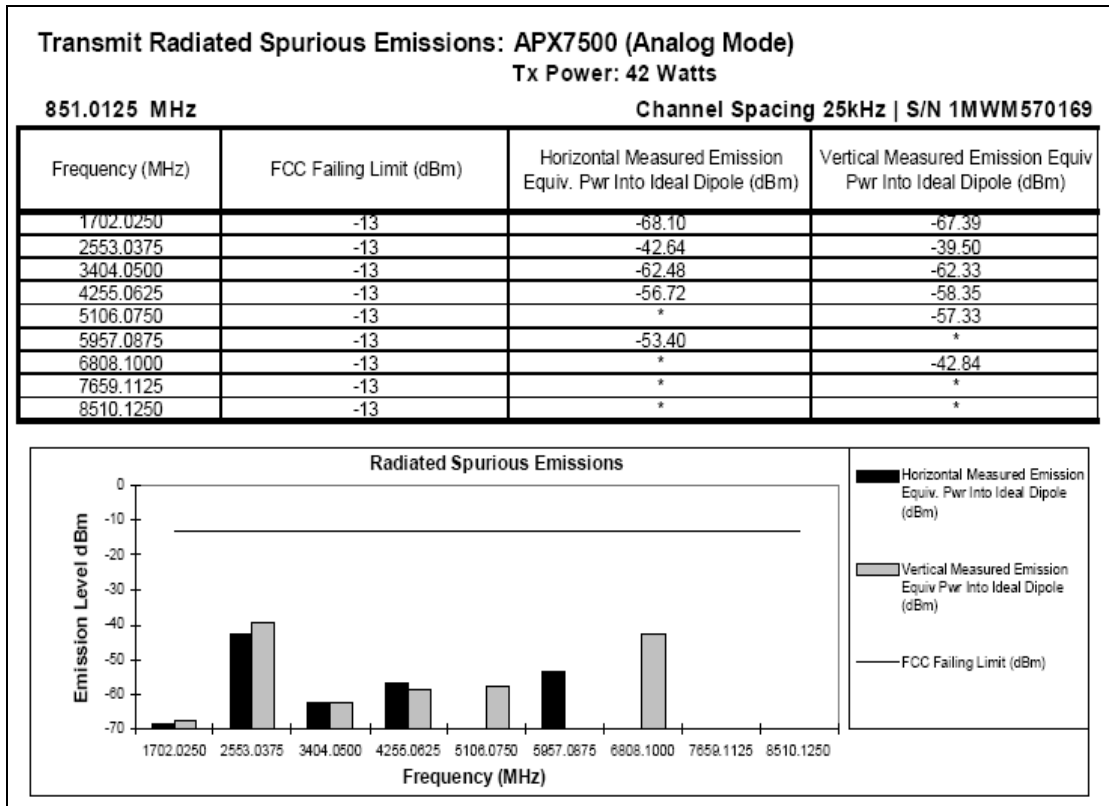
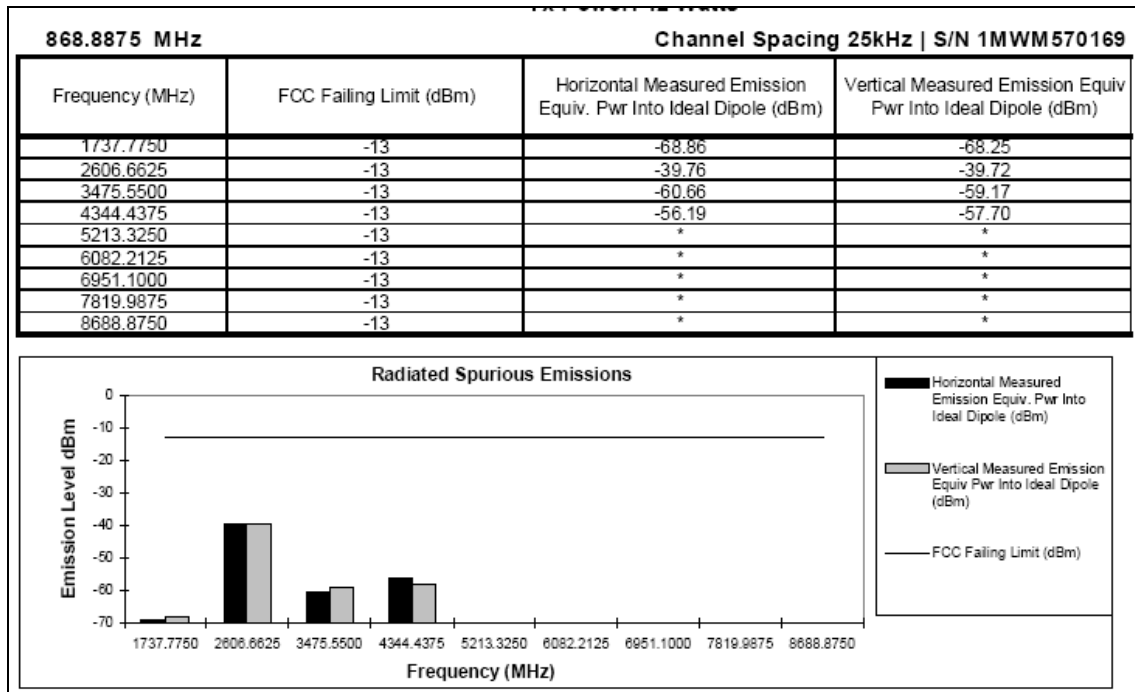


Figure 6H-16: 42W, 851.0125MHz, 25 kHz Channel Spacing



**Figure 6H-17:** 42W, 868.8875 MHz, 25 kHz Channel Spacing

\* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients. The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

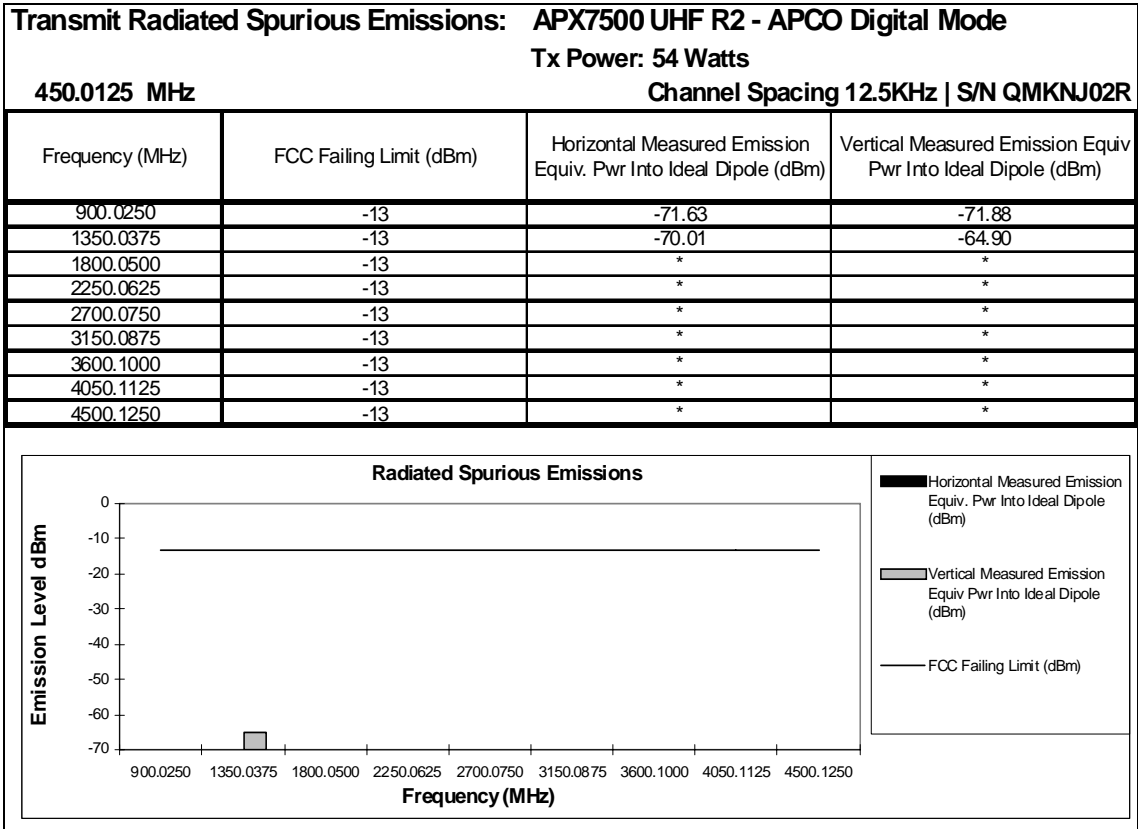


Figure 6H-18: 54W, 450.0125 MHz, 12.5 kHz Channel Spacing

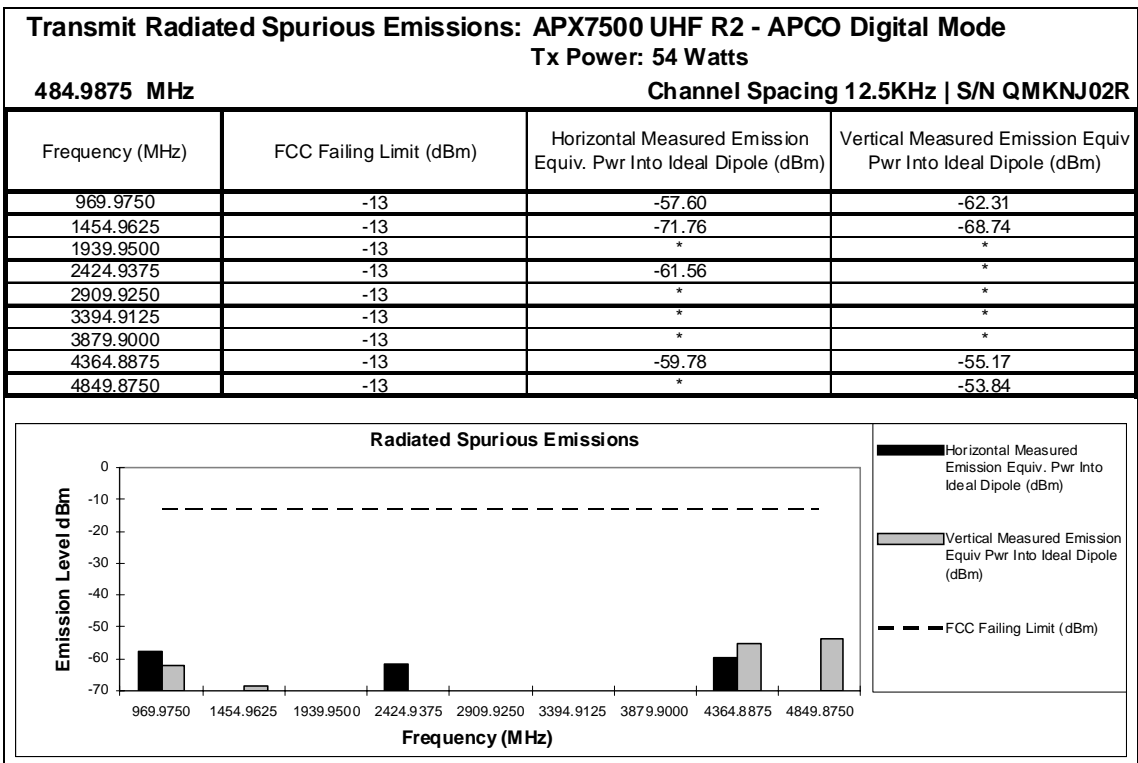


Figure 6H-19: 54W, 484.9875 MHz, 12.5 kHz Channel Spacing



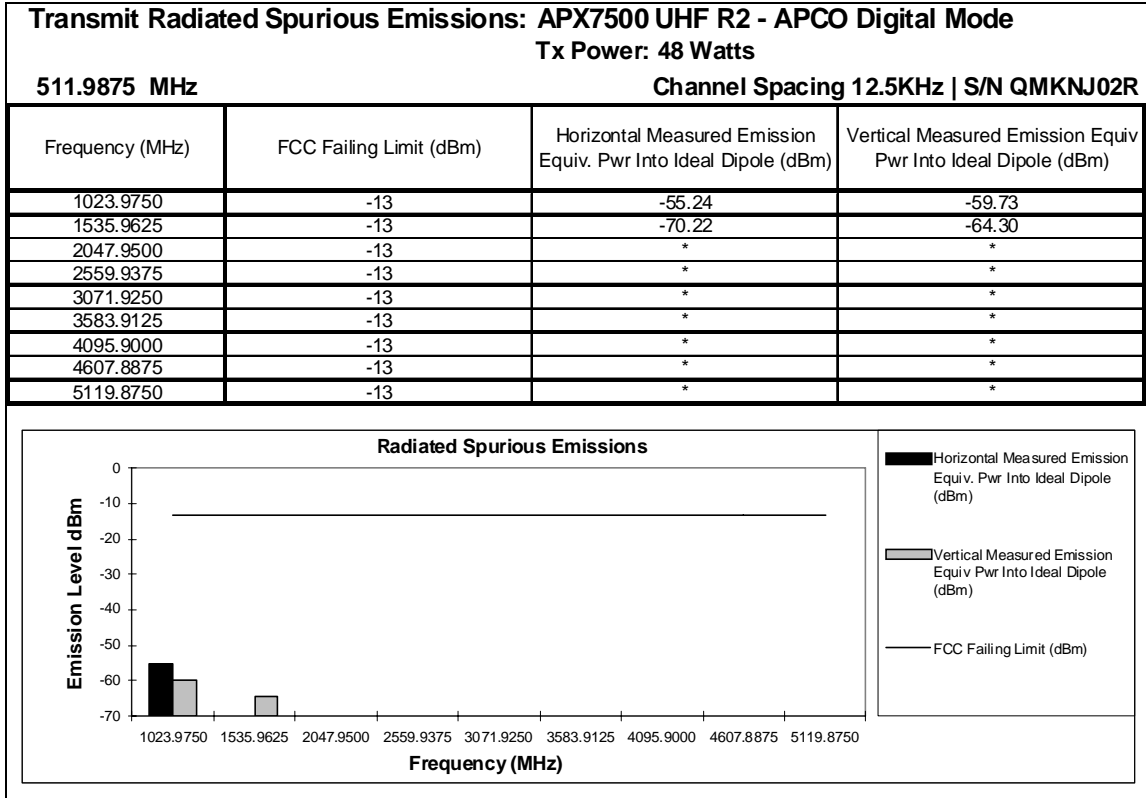


Figure 6H-20: 48W, 511.9875 MHz, 12.5 kHz Channel Spacing

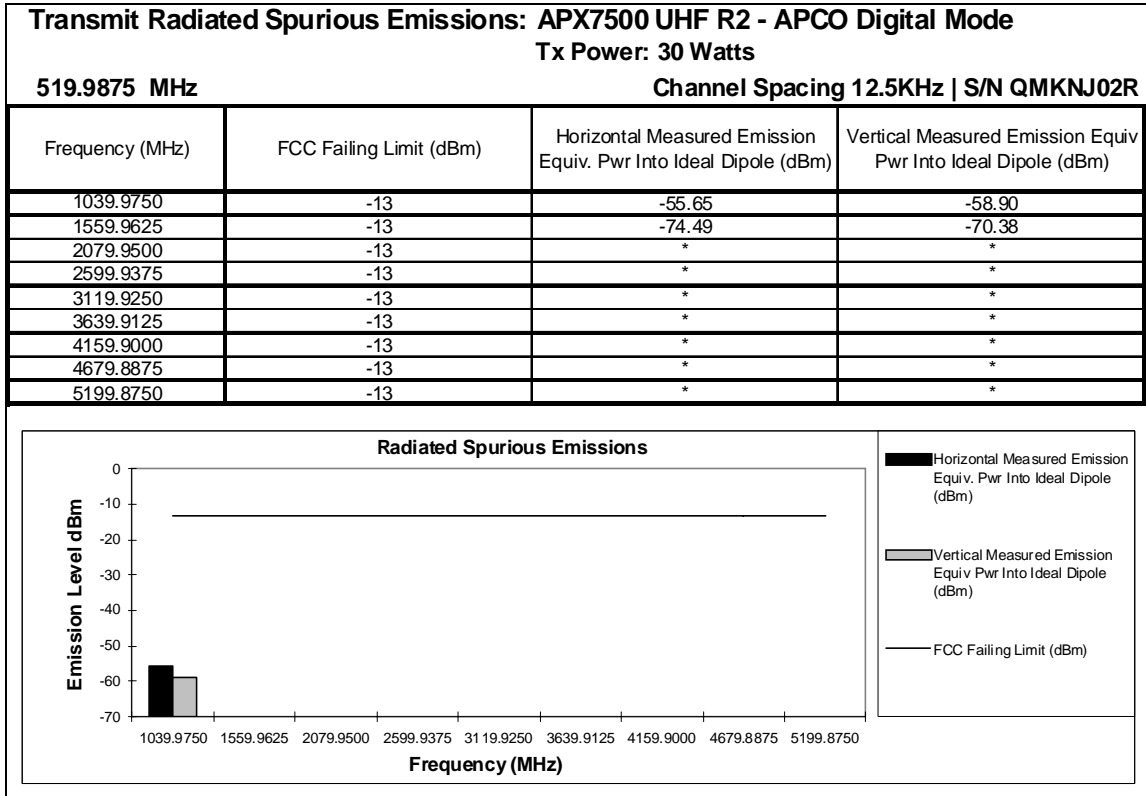


Figure 6H-21: 30W, 519.9875 MHz, 12.5 kHz Channel Spacing

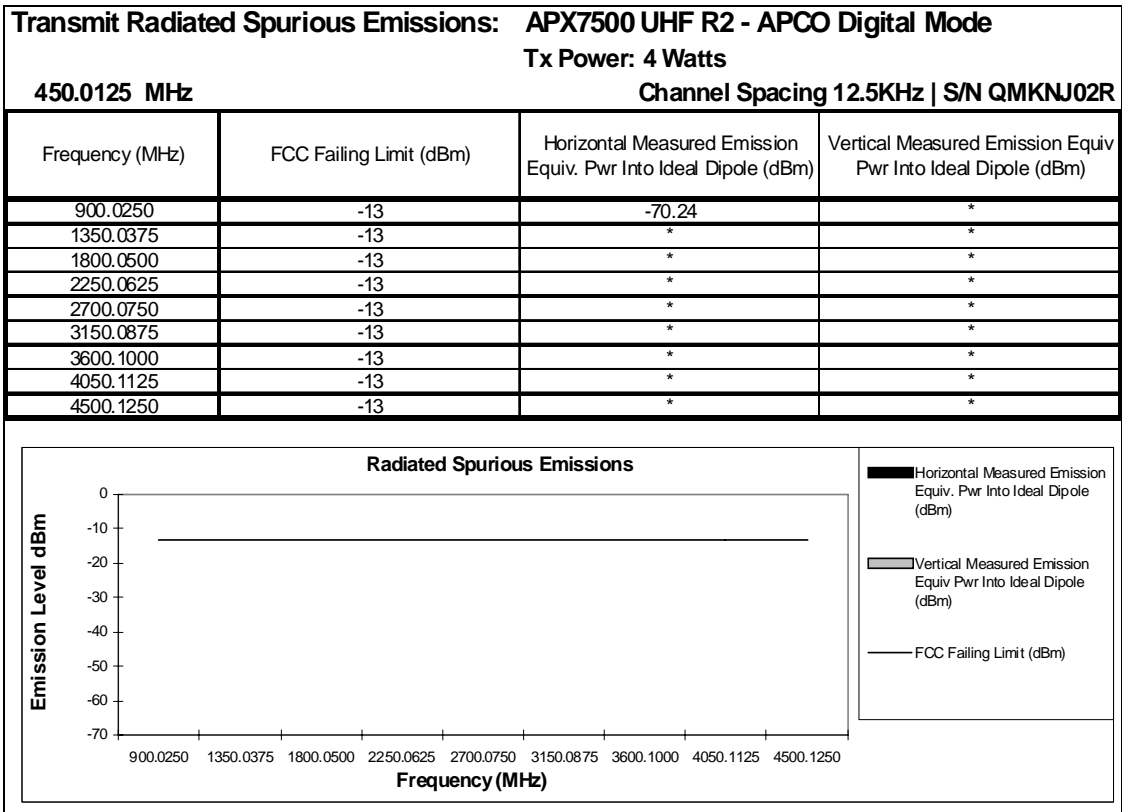


Figure 6H-22: 4W, 450.0125 MHz, 12.5 kHz Channel Spacing

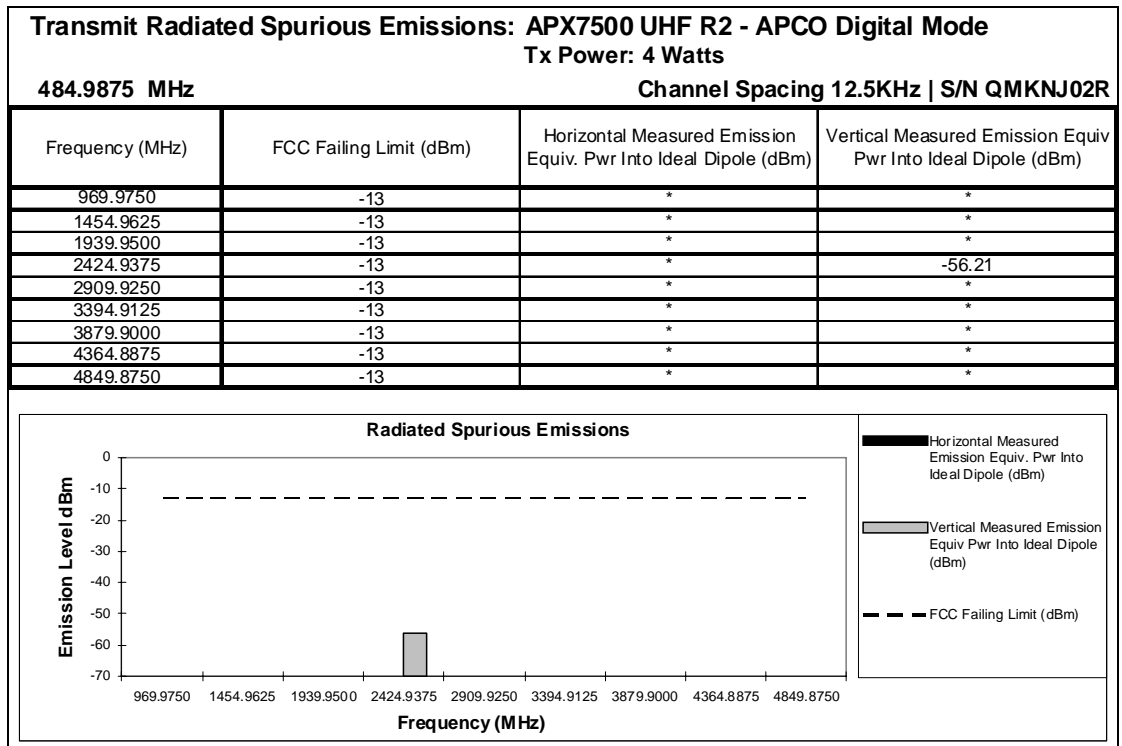


Figure 6H-23: 4W, 484.9875 MHz, 12.5 kHz Channel Spacing

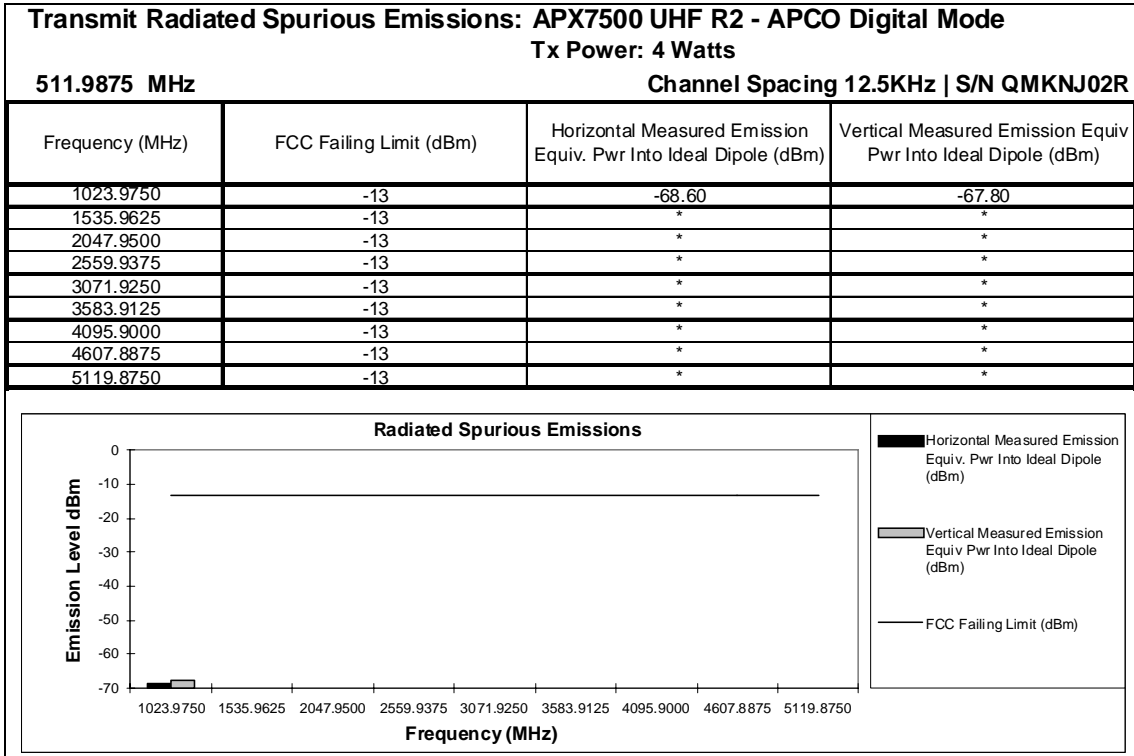


Figure 6H-24: 4W, 511.9875 MHz, 12.5 kHz Channel Spacing

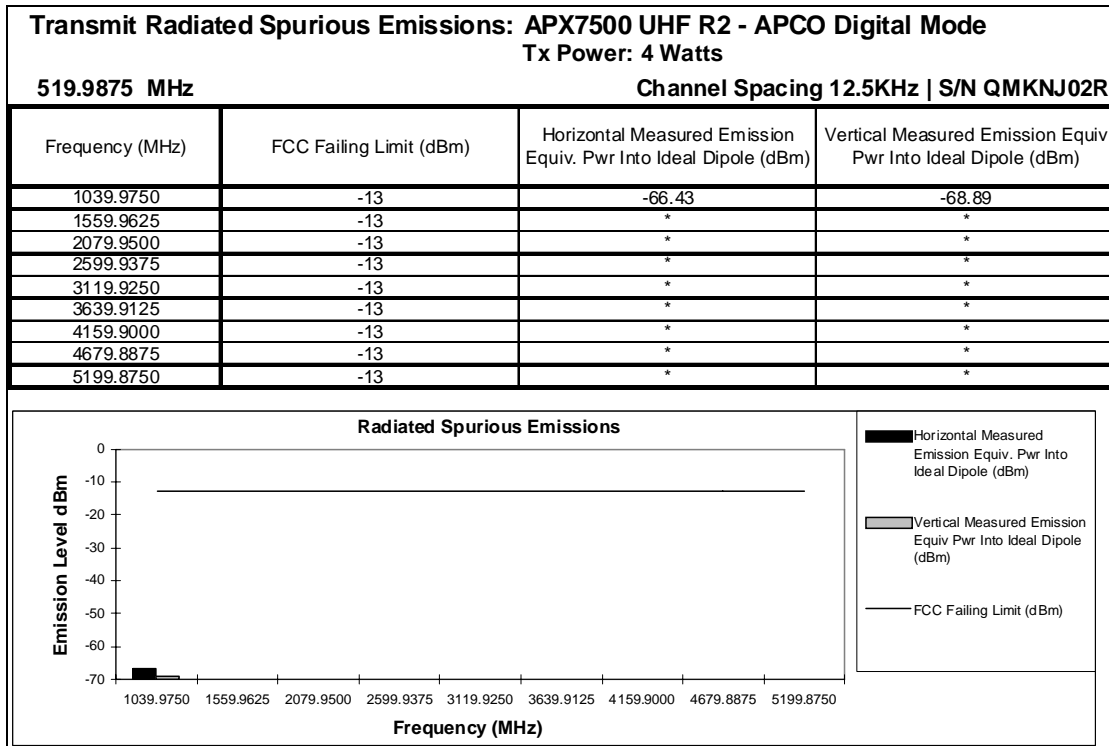


Figure 6H-25: 4W, 519.9875 MHz, 12.5 kHz Channel Spacing

\* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

**Transmit Radiated Spurious Emissions: APX7500 UHF R2 - F2 Mode**  
**Tx Power: 54 Watts**  
**450.0125 MHz** **Channel Spacing 12.5KHz | S/N QMKNJ02R**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
900.0250	-13	-67.73	*
1350.0375	-13	-71.12	-65.55
1800.0500	-13	*	*
2250.0625	-13	*	*
2700.0750	-13	*	*
3150.0875	-13	*	*
3600.1000	-13	*	*
4050.1125	-13	*	*
4500.1250	-13	*	*

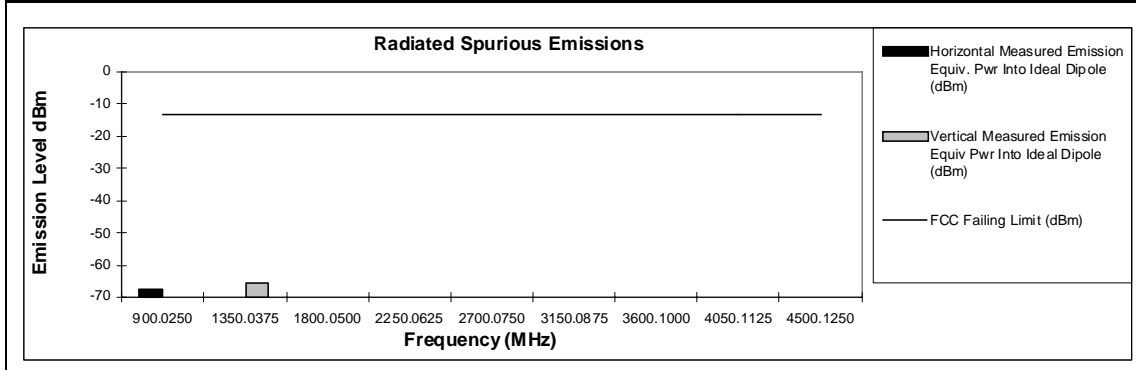
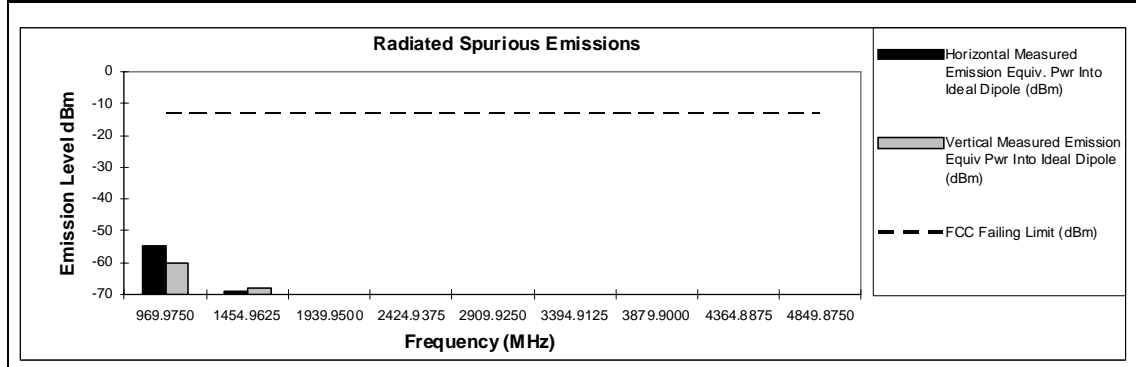


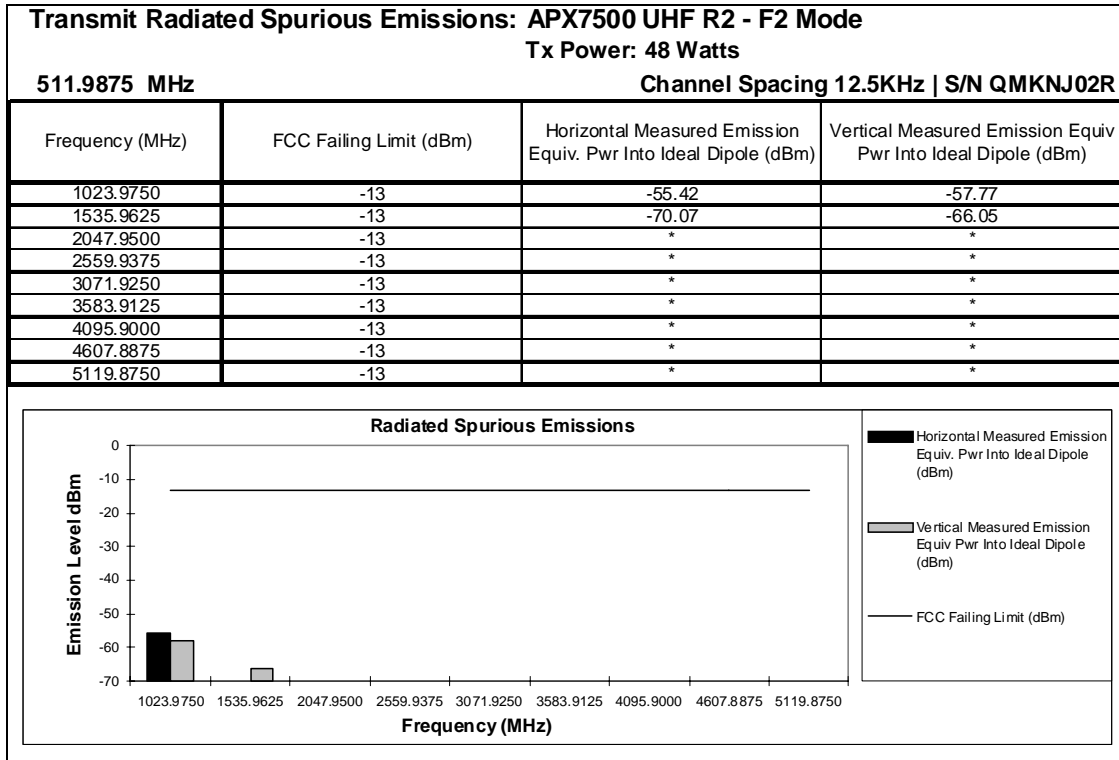
Figure 6H-26: 54W, 450.0125 MHz, 12.5 kHz Channel Spacing

**Transmit Radiated Spurious Emissions: APX7500 UHF R2 - F2 Mode**  
**Tx Power: 54 Watts**  
**484.9875 MHz** **Channel Spacing 12.5KHz | S/N QMKNJ02R**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
969.9750	-13	-54.94	-60.33
1454.9625	-13	-68.91	-68.04
1939.9500	-13	*	*
2424.9375	-13	*	*
2909.9250	-13	*	*
3394.9125	-13	*	*
3879.9000	-13	*	*
4364.8875	-13	*	*
4849.8750	-13	*	*



**Figure 6H-27:** 54W, 484.9875 MHz, 12.5 kHz Channel Spacing



**Figure 6H-28:** 48W, 511.9875 MHz, 12.5 kHz Channel Spacing

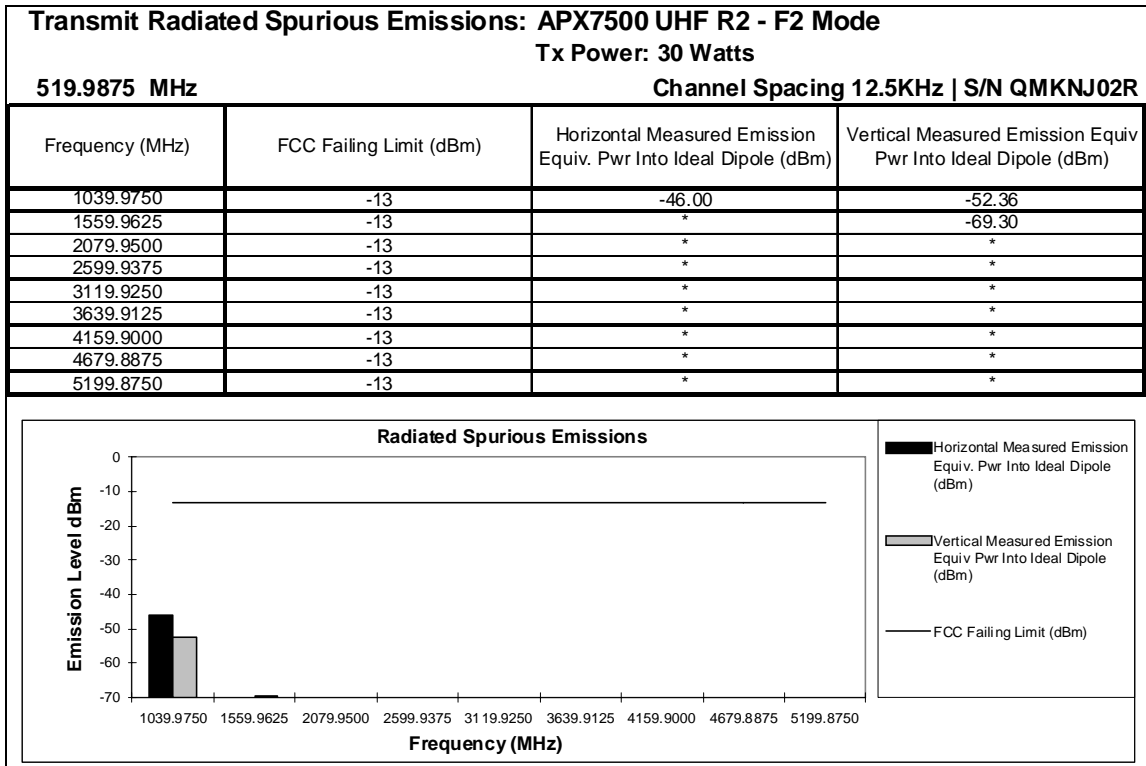


Figure 6H-29: 30W, 519.9875 MHz, 12.5 kHz Channel Spacing

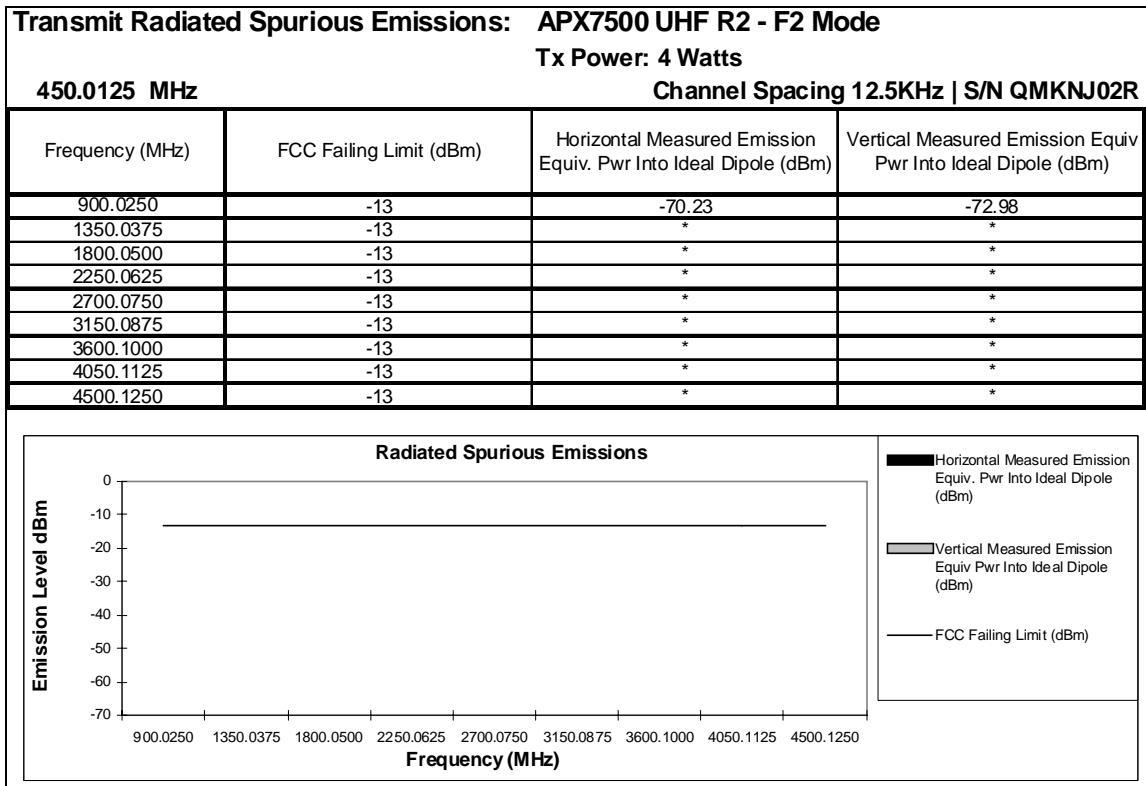


Figure 6H-30: 4W, 450.0125 MHz, 12.5 kHz Channel Spacing

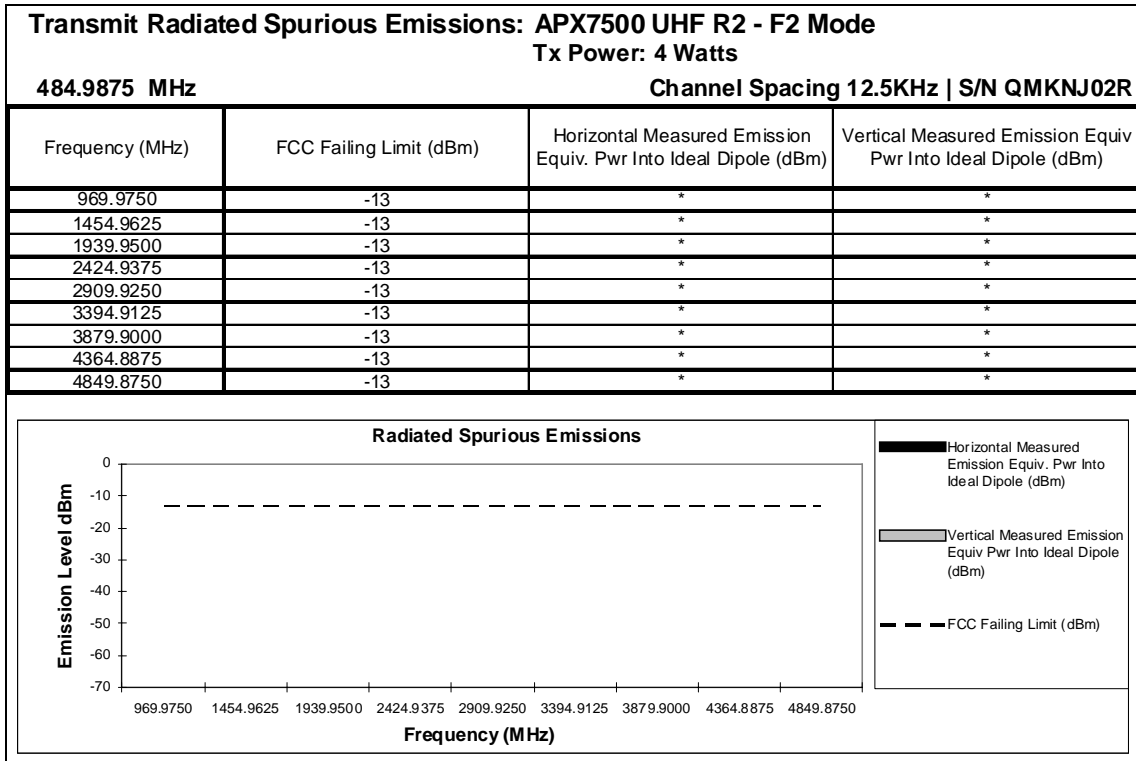


Figure 6H-31: 4W, 484.9875 MHz, 12.5 kHz Channel Spacing

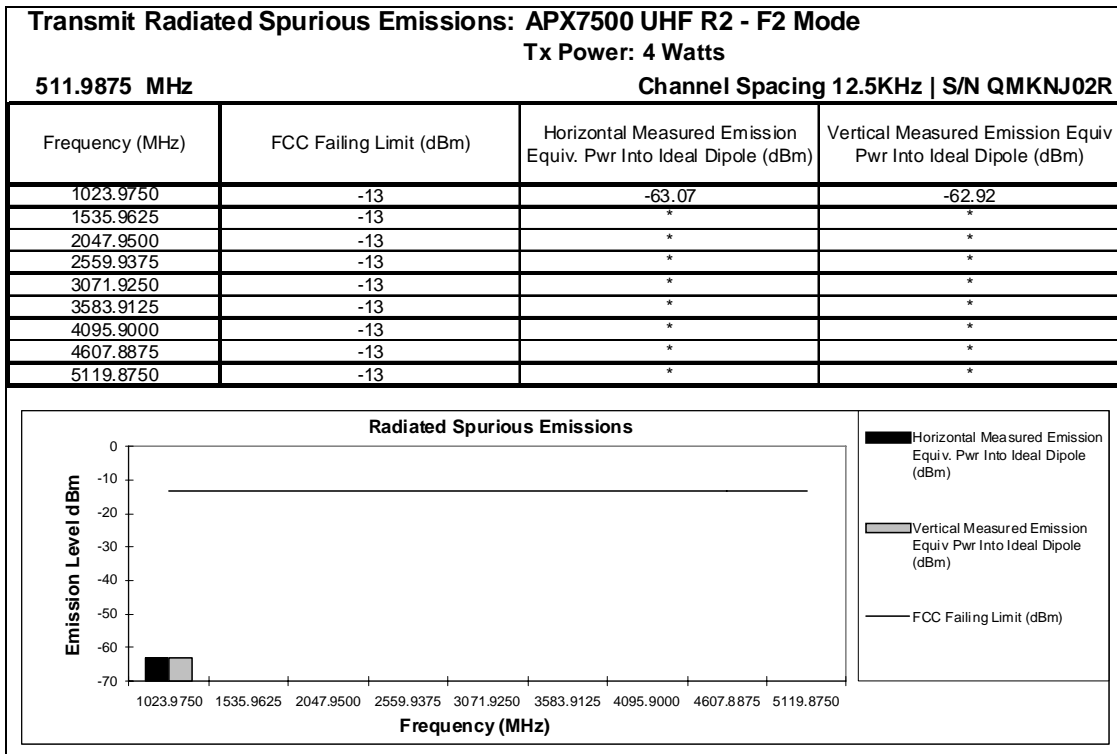
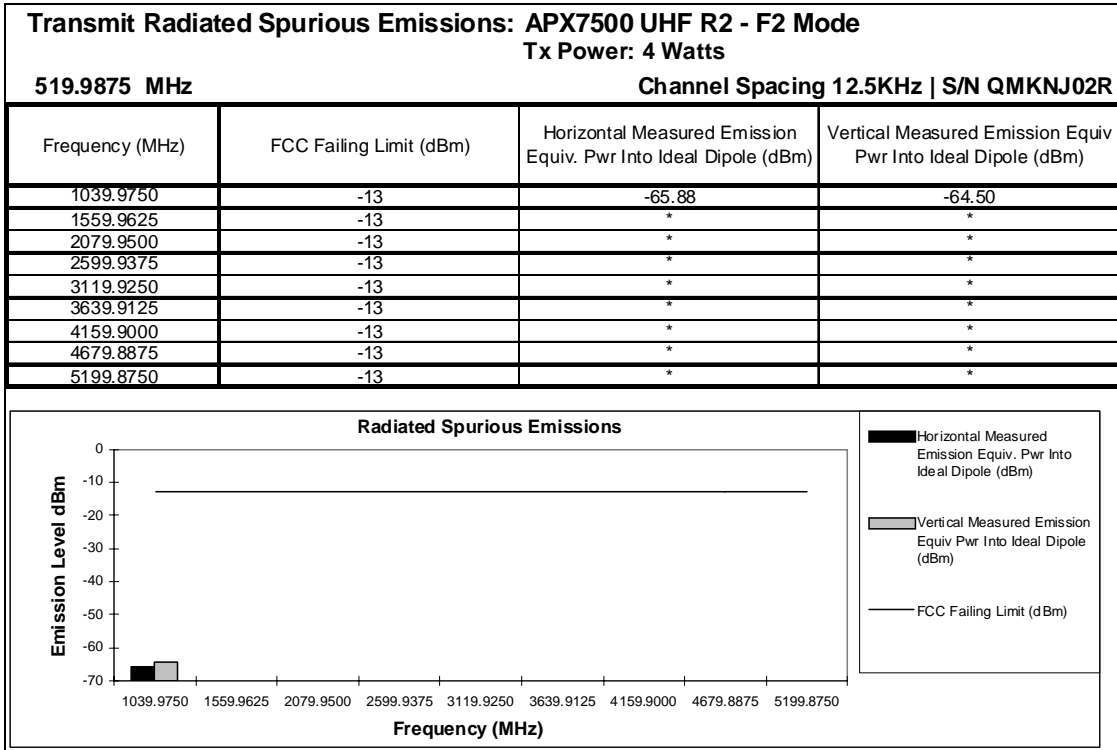


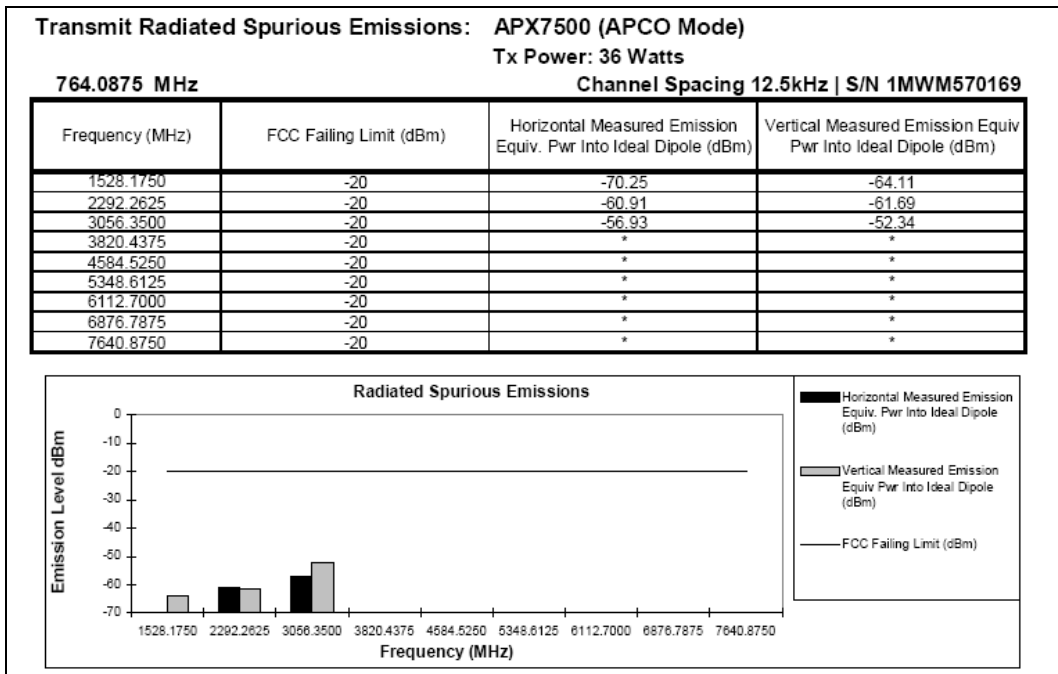
Figure 6H-32: 4W, 511.9875 MHz, 12.5 kHz Channel Spacing



**Figure 6H-33: 4W, 519.9875 MHz, 12.5 kHz Channel Spacing (Not for FCC Review)**

\* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.



**Figure 6H-34: 36W, 764.0875MHz, 12.5 kHz Channel Spacing**



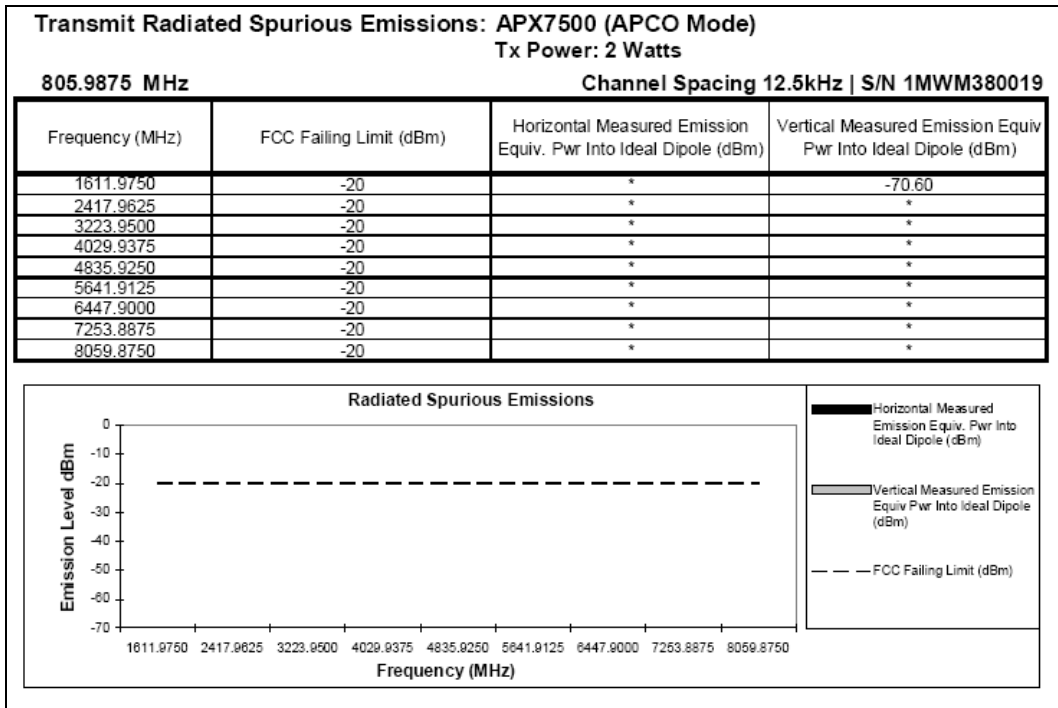


Figure 6H-35: 2W, 805.9875 MHz

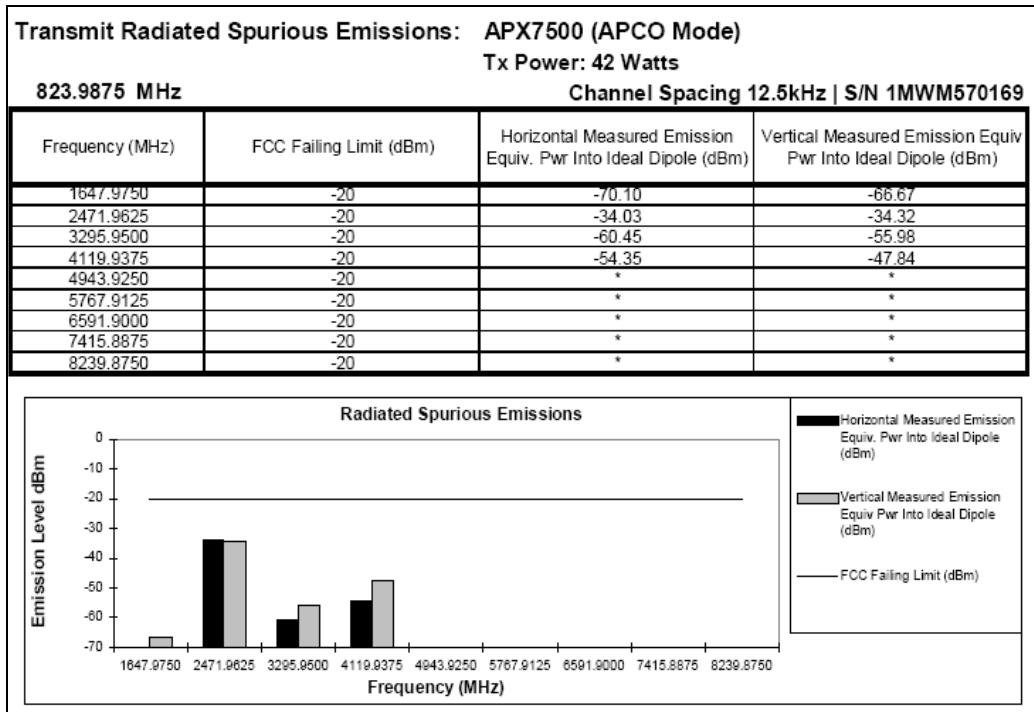


Figure 6H-36: 42W, 823.9875 MHz

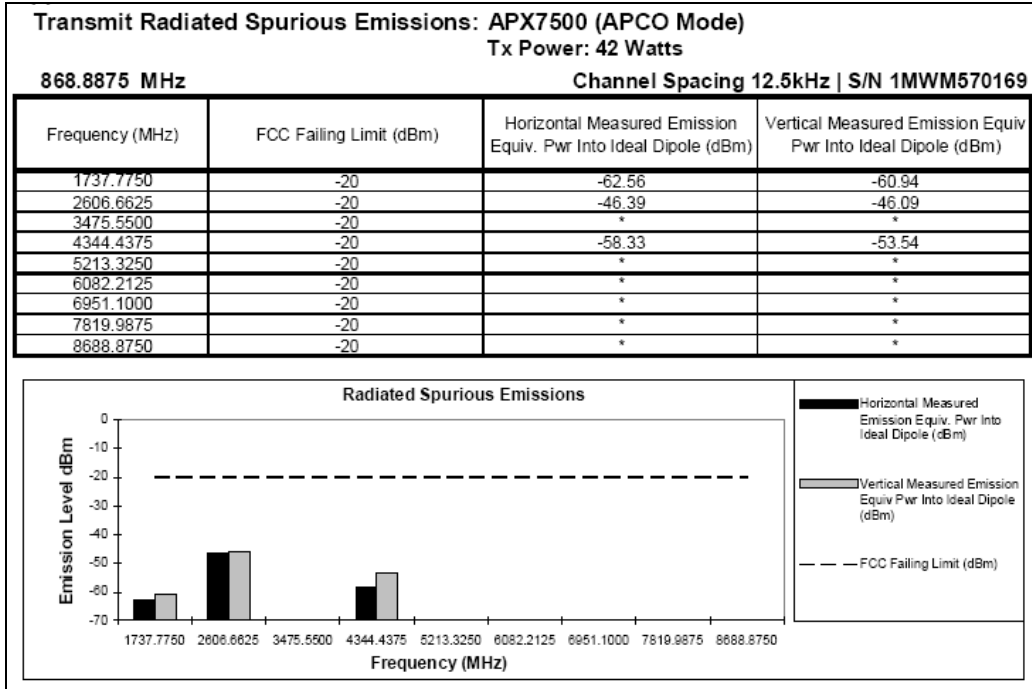


Figure 6H-37: 42W, 868.8875 MHz

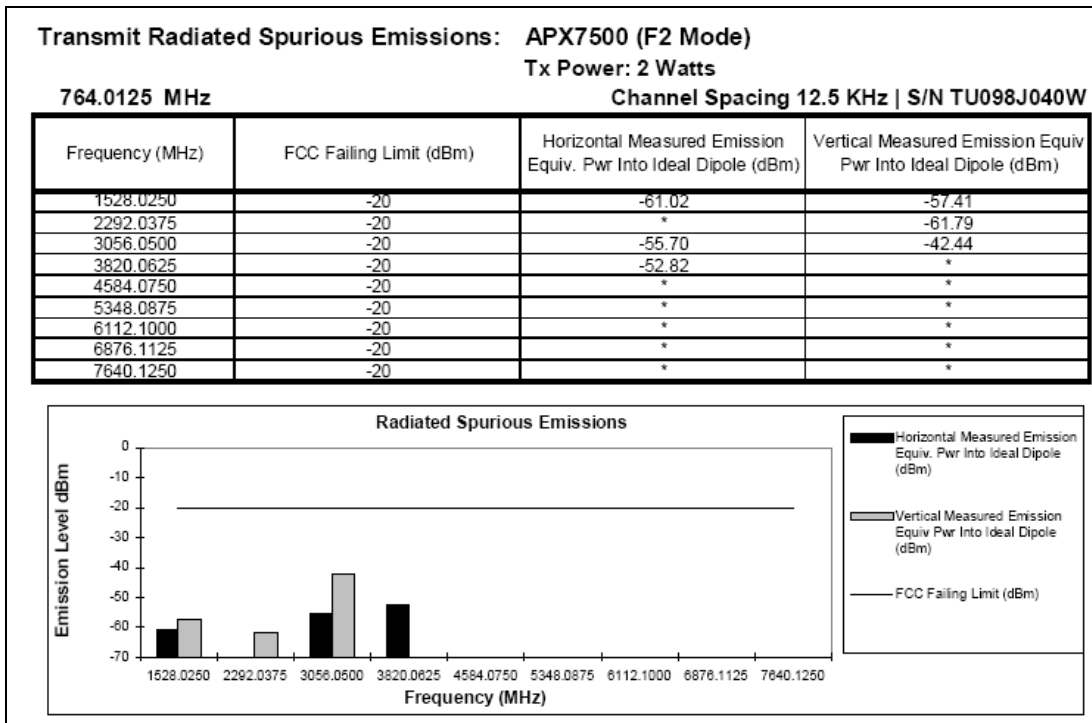
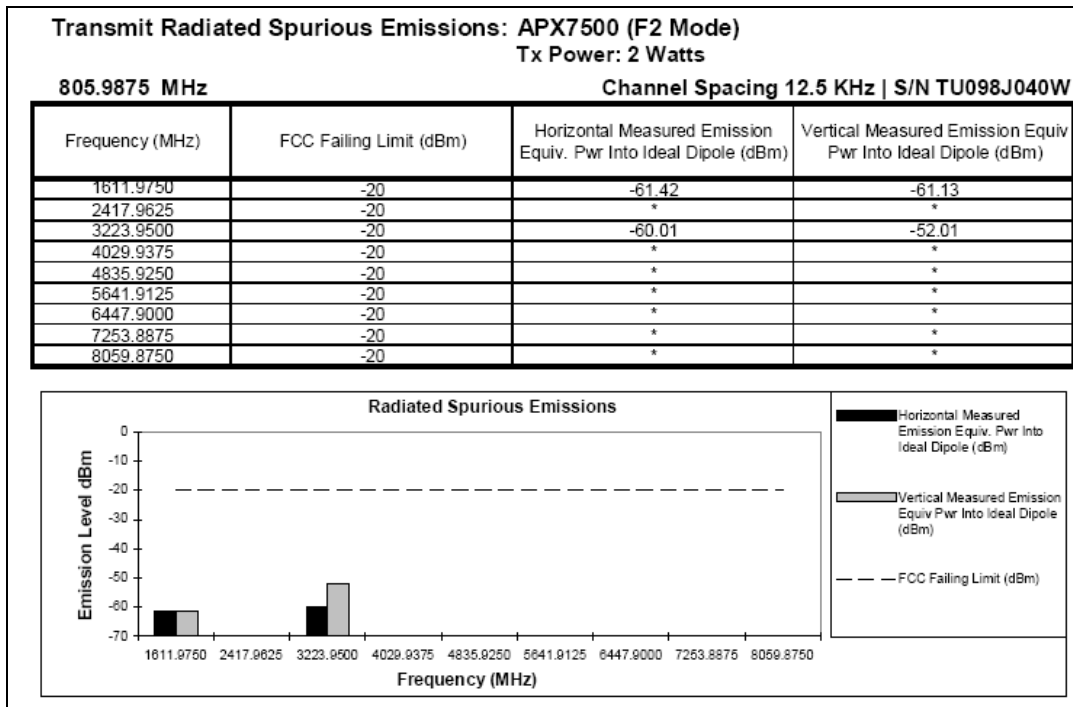
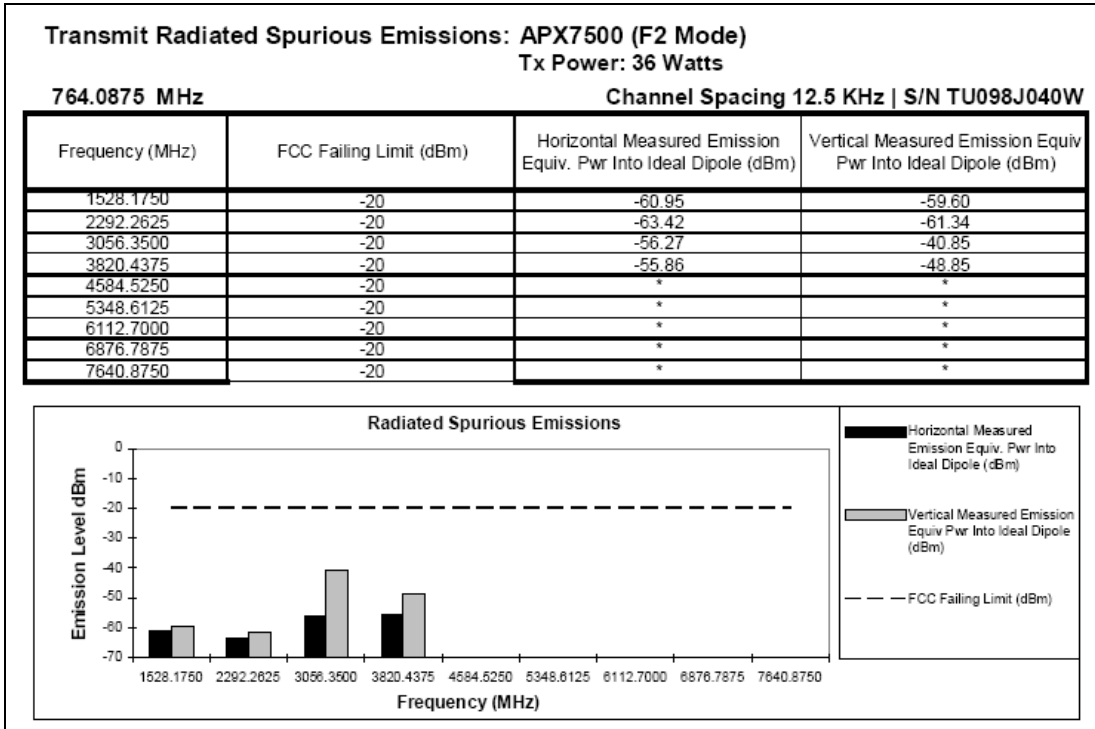


Figure 6H-38: 42W, 764.0125 MHz, 12.5 kHz Channel Spacing



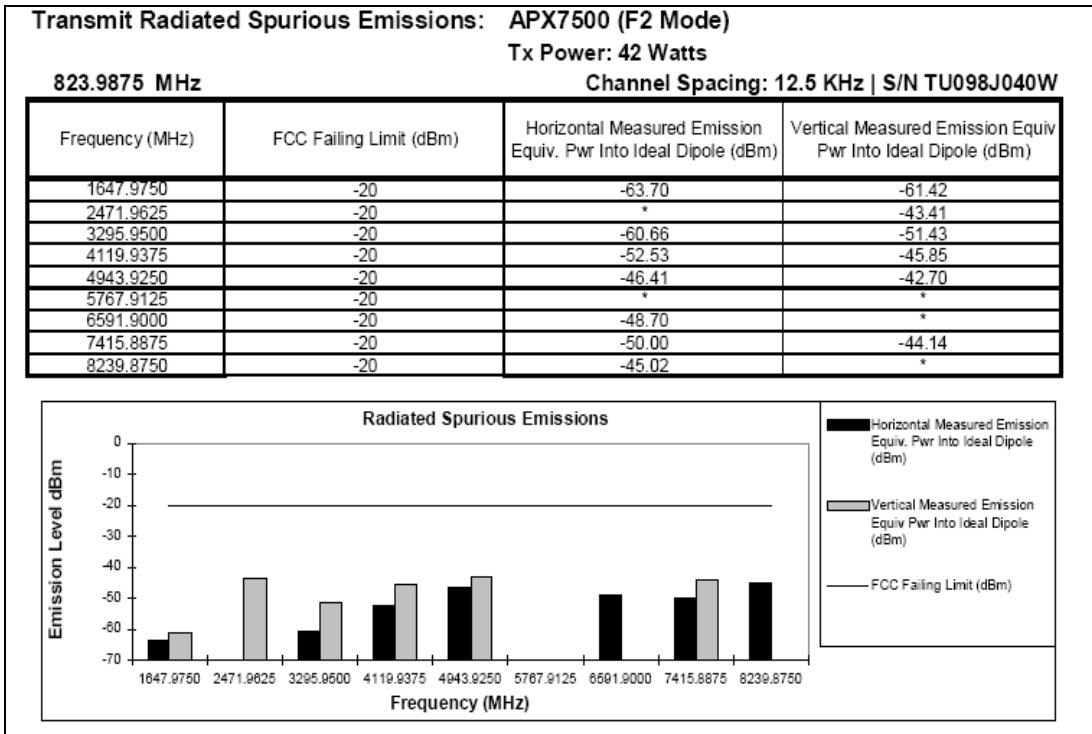


Figure 6H-41: 42W, 823.9875 MHz

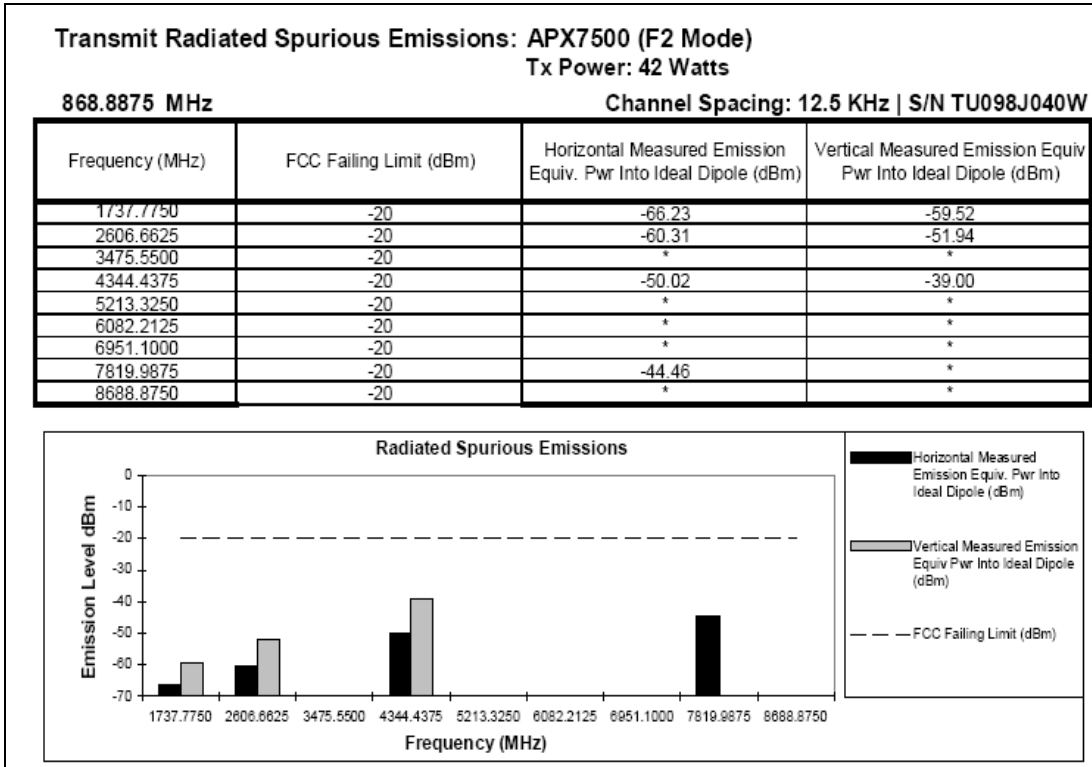


Figure 6H-42: 42W, 868.8875 MHz

\* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients. EXHIBIT 6  
 The data presented here was taken using the substitution method as found in the TIA/EIA-513-601-608 of 75

**EXHIBIT 6I**

**1559-1610MHz Emissions (GNSS) - Pursuant 47 CFR 90.543 (e)**

<b>GNSS Testing</b>				
<b>ADD +2.15 dB for EIRP</b>				
Date: <u>7/7/2009</u>		S/N <u>1MWM380024</u>		
Product: <u>APX7500 - 7/800 MHz Single Band</u>		Notes: <u>ANT: Quarter Wave (HAF4016A)</u>		
Tx Freq.	<u>794.0875</u>	<b>Peak Radiated Spurious Emissions:</b>	<b>Peak Radiated Spurious Emissions:</b>	<b>Peak Radiated Spurious Emissions:</b>
		<b>Analog Mode</b>	<b>APCO Mode</b>	<b>F2 Mode</b>
<b>Spur</b>	<b>Frequency</b>	<b>(dBm)</b>	<b>(dBm)</b>	<b>(dBm)</b>
<b>2XFund</b>	1588.1750	-58.54	-59.44	-56.84
Tx Freq.		Notes: <u>ANT: Quarter Wave (HAF4016A)</u>		
	<u>805.9125</u>	<b>Peak Radiated Spurious Emissions:</b>	<b>Peak Radiated Spurious Emissions:</b>	<b>Peak Radiated Spurious Emissions:</b>
		<b>Analog Mode</b>	<b>APCO Mode</b>	<b>F2 Mode</b>
<b>Spur</b>	<b>Frequency</b>	<b>(dBm)</b>	<b>(dBm)</b>	<b>(dBm)</b>
<b>2XFund</b>	1611.8250	-59.84	-59.44	-58.14

<b>GNSS Testing</b>				
<b>ADD +2.15 dB for EIRP</b>				
Date: <u>7/7/2009</u>		S/N <u>1MWM380024</u>		
Product: <u>APX7500 - 7/800 MHz Single Band</u>		Notes: <u>ANT: Elevated 3 dB (HAF4014A)</u>		
Tx Freq.	<u>794.0875</u>	<b>Peak Radiated Spurious Emissions:</b>	<b>Peak Radiated Spurious Emissions:</b>	<b>Peak Radiated Spurious Emissions:</b>
		<b>Analog Mode</b>	<b>APCO Mode</b>	<b>F2 Mode</b>
<b>Spur</b>	<b>Frequency</b>	<b>(dBm)</b>	<b>(dBm)</b>	<b>(dBm)</b>
<b>2XFund</b>	1588.1750	-68.29	-67.89	-66.59
Tx Freq.		Notes: <u>ANT: Elevated 3 dB (HAF4014A)</u>		
	<u>805.9125</u>	<b>Peak Radiated Spurious Emissions:</b>	<b>Peak Radiated Spurious Emissions:</b>	<b>Peak Radiated Spurious Emissions:</b>
		<b>Analog Mode</b>	<b>APCO Mode</b>	<b>F2 Mode</b>
<b>Spur</b>	<b>Frequency</b>	<b>(dBm)</b>	<b>(dBm)</b>	<b>(dBm)</b>
<b>2XFund</b>	1611.8250	-67.34	-66.94	-65.64

Note 1: The reported emissions are wideband (>700Hz) spurs.

<b>GNSS Testing</b>				
<b>ADD +2.15 dB for EIRP</b>				
Date: <u>7/7/2009</u>		S/N <u>1MWM380024</u>		
Product: <u>APX7500 - 7/800 MHz Single Band</u>		Notes: <u>ANT: 3 dB Low Profile (HAF4013A)</u>		
Tx Freq.	<u>794.0875</u>	Peak Radiated	Peak Radiated	Peak Radiated
		Spurious Emissions:	Spurious Emissions:	Spurious Emissions:
	Frequency	Analog Mode	APCO Mode	F2 Mode
Spur	MHz	(dBm)	(dBm)	(dBm)
2XFund	1588.1750	-54.94	-54.54	-53.24
Tx Freq.		Notes: <u>ANT: 3 dB Low Profile (HAF4013A)</u>		
	<u>805.9125</u>	Peak Radiated	Peak Radiated	Peak Radiated
		Spurious Emissions:	Spurious Emissions:	Spurious Emissions:
	Frequency	Analog Mode	APCO Mode	F2 Mode
Spur	MHz	(dBm)	(dBm)	(dBm)
2XFund	1611.8250	-56.59	-56.19	-54.89

<b>GNSS Testing</b>				
<b>ADD +2.15 dB for EIRP</b>				
Date: <u>7/7/2009</u>		S/N <u>1MWM380024</u>		
Product: <u>APX7500 - 7/800 MHz Single Band</u>		Notes: <u>ANT: 3 dB Collinear (HAF4015A)</u>		
Tx Freq.	<u>794.0875</u>	Peak Radiated	Peak Radiated	Peak Radiated
		Spurious Emissions:	Spurious Emissions:	Spurious Emissions:
	Frequency	Analog Mode	APCO Mode	F2 Mode
Spur	MHz	(dBm)	(dBm)	(dBm)
2XFund	1588.1750	-56.54	-56.14	-54.84
Tx Freq.		Notes: <u>ANT: 3 dB Collinear (HAF4015A)</u>		
	<u>805.9125</u>	Peak Radiated	Peak Radiated	Peak Radiated
		Spurious Emissions:	Spurious Emissions:	Spurious Emissions:
	Frequency	Analog Mode	APCO Mode	F2 Mode
Spur	MHz	(dBm)	(dBm)	(dBm)
2XFund	1611.8250	-58.34	-57.94	-56.64

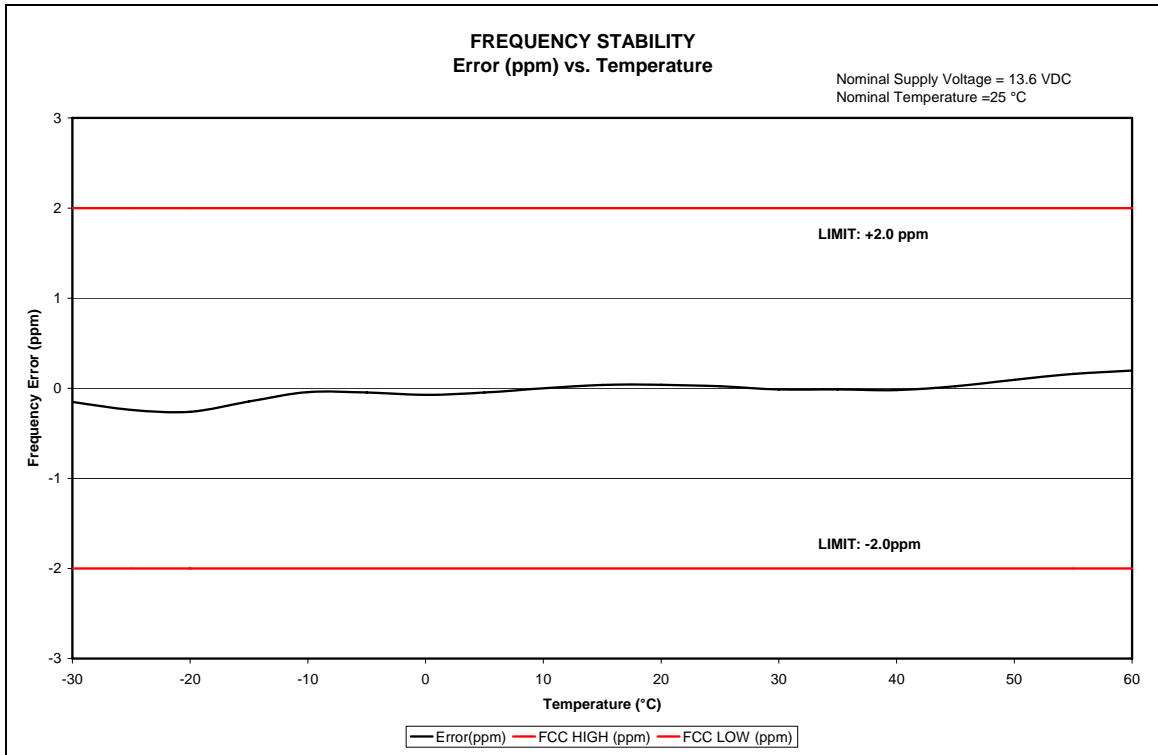
Note 1: The reported emissions are wideband (>700Hz) spurs.

<b>GNSS Testing</b>				
<b>ADD +2.15 dB for EIRP</b>				
<b>Date:</b> <u>7/7/2009</u>				
<b>Product:</b> <u>APX7500 - 7/800 MHz Single Band</u>		<b>S/N</b> <u>1MWM380024</u>		
<b>Notes:</b> <u>ANT: 3 dB Low-Profile (HAF4018A)</u>				
<b>Tx Freq.</b>	<u>794.0875</u>			
	<b>Frequency</b>	<b>Peak Radiated</b>	<b>Peak Radiated</b>	<b>Peak Radiated</b>
	<b>MHz</b>	<b>Spurious Emissions:</b>	<b>Spurious Emissions:</b>	<b>Spurious Emissions:</b>
<b>Spur</b>		<b>Analog Mode</b>	<b>APCO Mode</b>	<b>F2 Mode</b>
<b>2XFund</b>	1588.1750	<b>(dBm)</b>	<b>(dBm)</b>	<b>(dBm)</b>
		-57.44	-57.04	-55.74
<b>Notes:</b> <u>ANT: 3 dB Low-Profile (HAF4018A)</u>				
<b>Tx Freq.</b>	<u>805.9125</u>			
	<b>Frequency</b>	<b>Peak Radiated</b>	<b>Peak Radiated</b>	<b>Peak Radiated</b>
	<b>MHz</b>	<b>Spurious Emissions:</b>	<b>Spurious Emissions:</b>	<b>Spurious Emissions:</b>
<b>Spur</b>		<b>Analog Mode</b>	<b>APCO Mode</b>	<b>F2 Mode</b>
<b>2XFund</b>	1611.8250	<b>(dBm)</b>	<b>(dBm)</b>	<b>(dBm)</b>
		-59.24	-58.84	-57.54

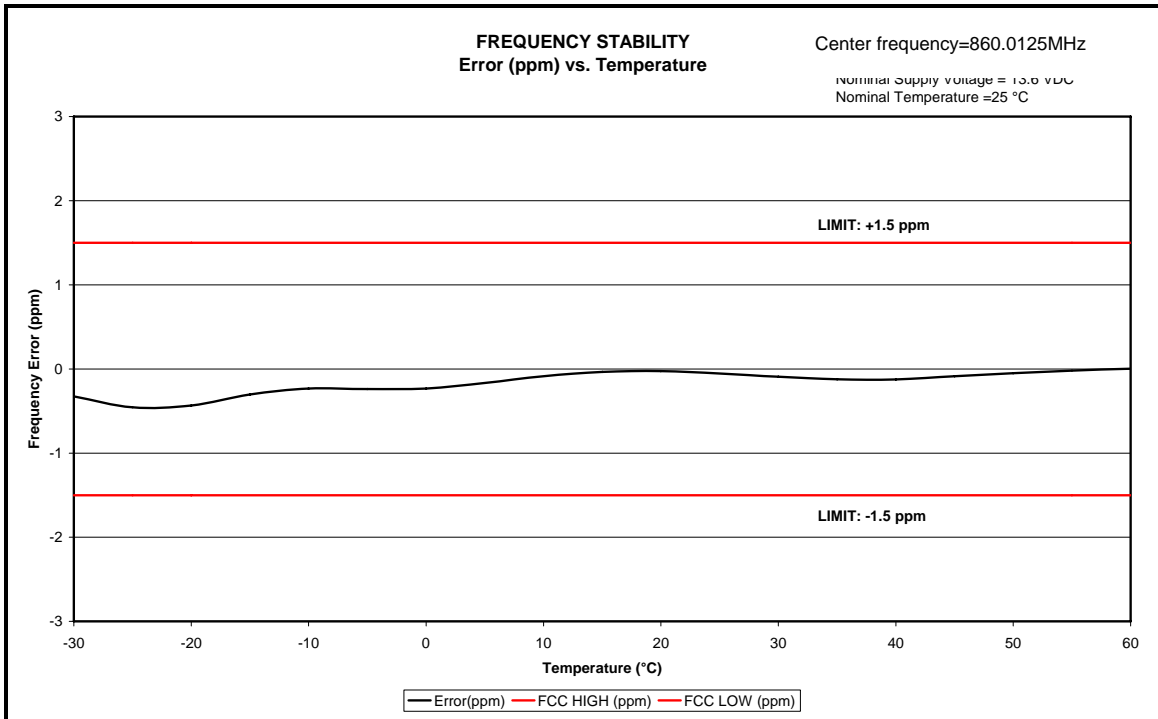
Note 1: The reported emissions are wideband (>700Hz) spurs.

**EXHIBIT 6J**

**Frequency Stability - Pursuant 47 CFR 90.213, 90.539, 2.1055 and 2.1033(c) (13)**

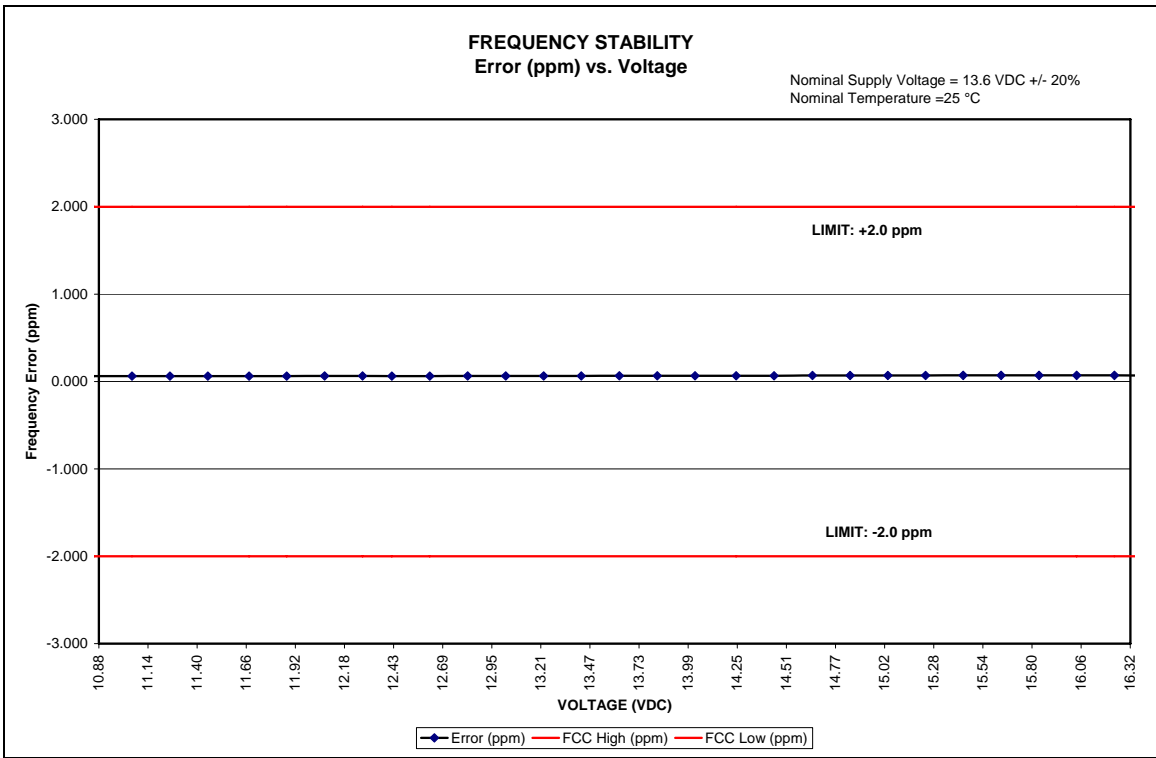


**Figure 6J-1:** Frequency Stability vs. Temperature, 484.9875 MHz, -30°C to 60°C

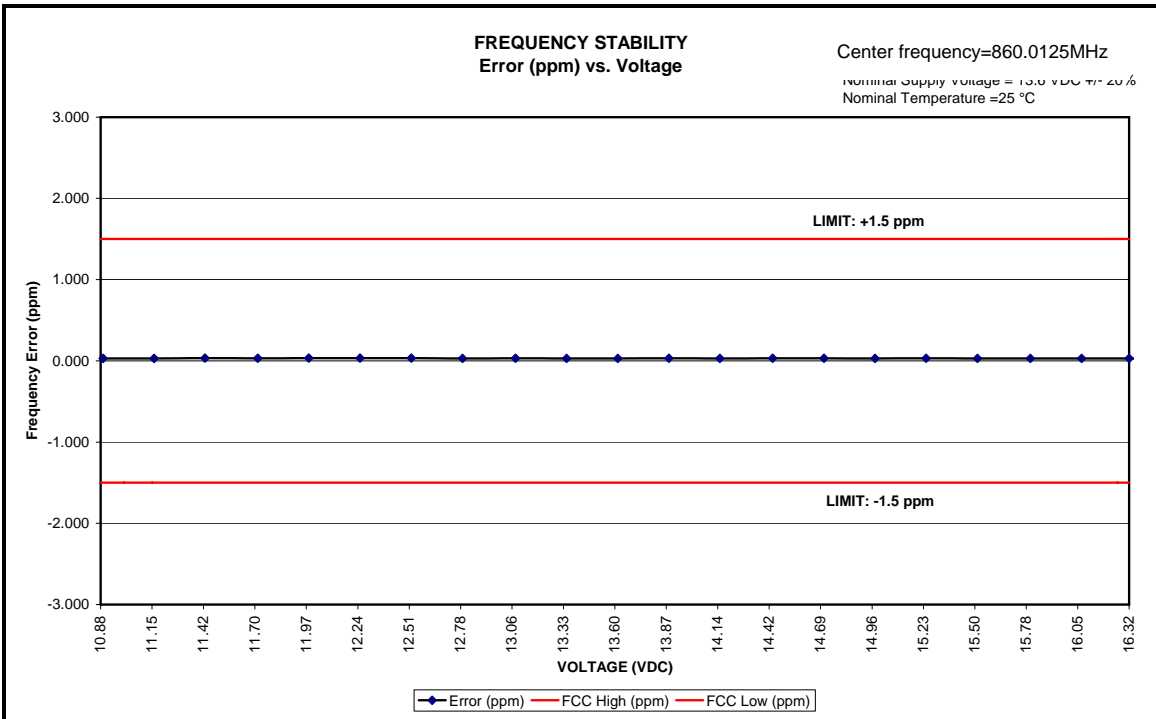


**Figure 6J-2:** Frequency Stability vs. Temperature, 860.0125 MHz, -30°C to 60°C



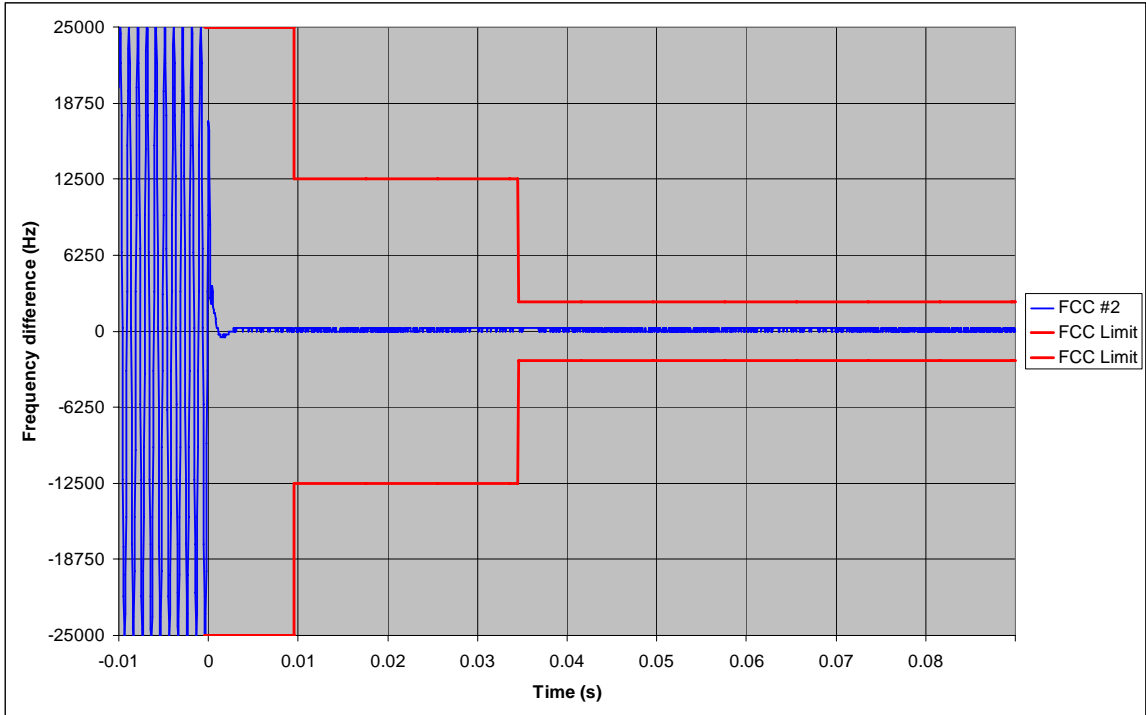


**Figure 6J-3:** Frequency Stability vs. Supply Voltage Change, 484.9875 MHz

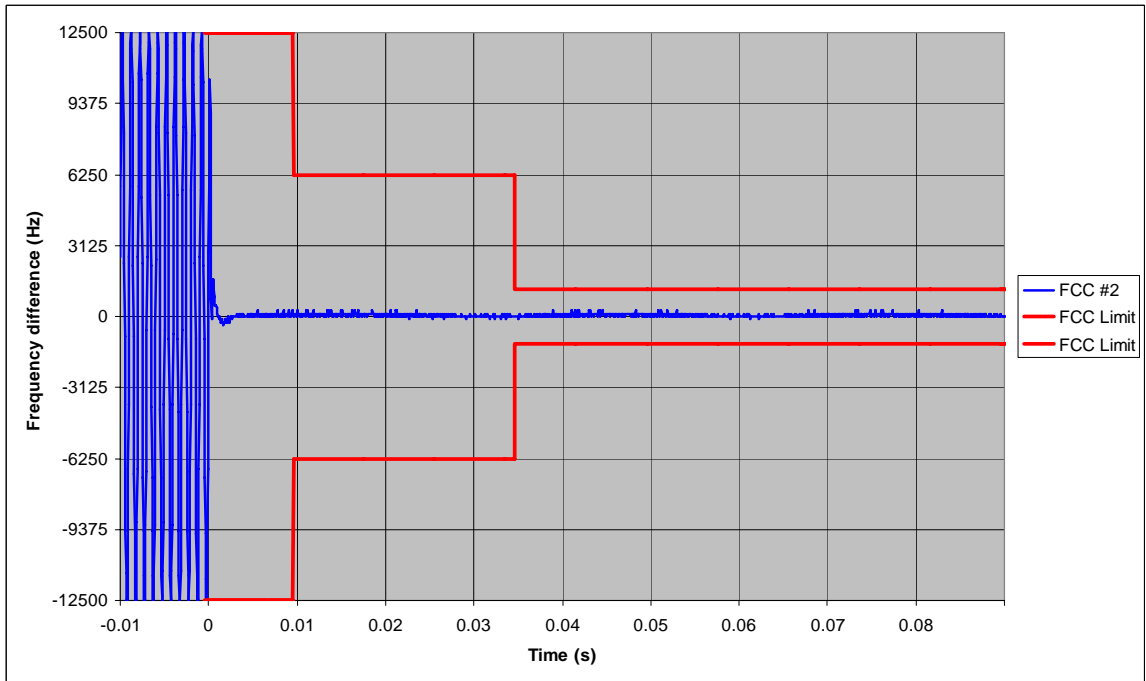


**Figure 6J-4:** Frequency Stability vs. Supply Voltage Change, 860.0125 MHz

**EXHIBIT 6K**  
**Transient Frequency Behavior - Pursuant 47 CFR 90.214**



**Figure 6K-1: Transient Frequency Behavior. 484.9875 MHz, 25 kHz Channel Spacing, Key-up (Not for FCC Review)**



**Figure 6K-2: Transient Frequency Behavior. 484.9875 MHz, 12.5 kHz Channel Spacing, Key-up Transient**

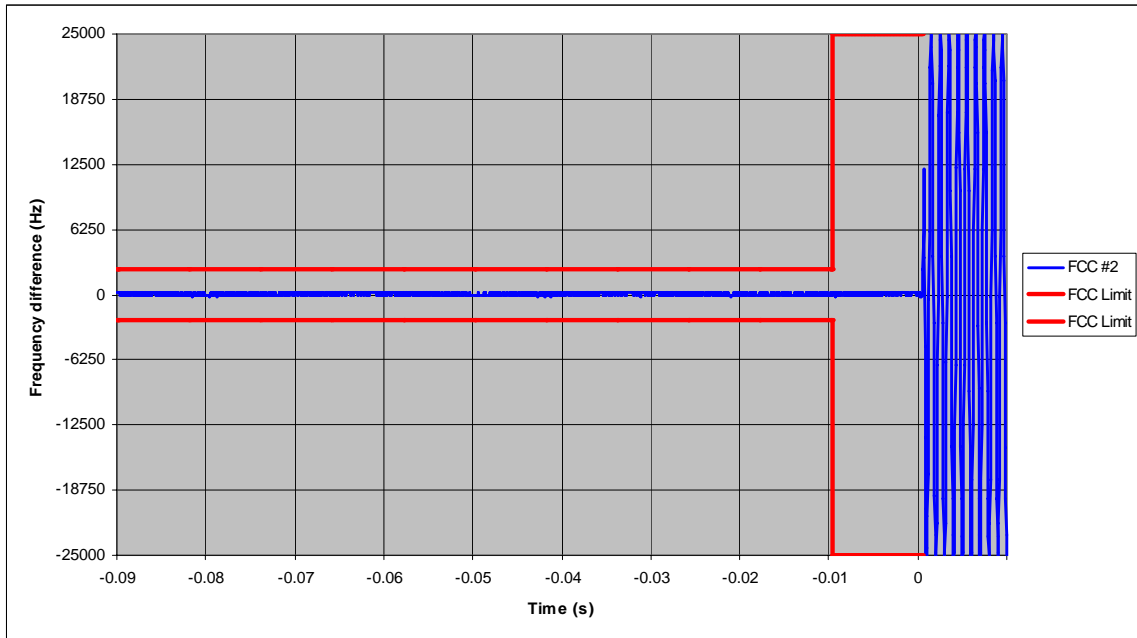


Figure 6K-3: Transient Frequency Behavior. 484.9875 MHz, 12.5 kHz Channel Spacing, De-Key Transient

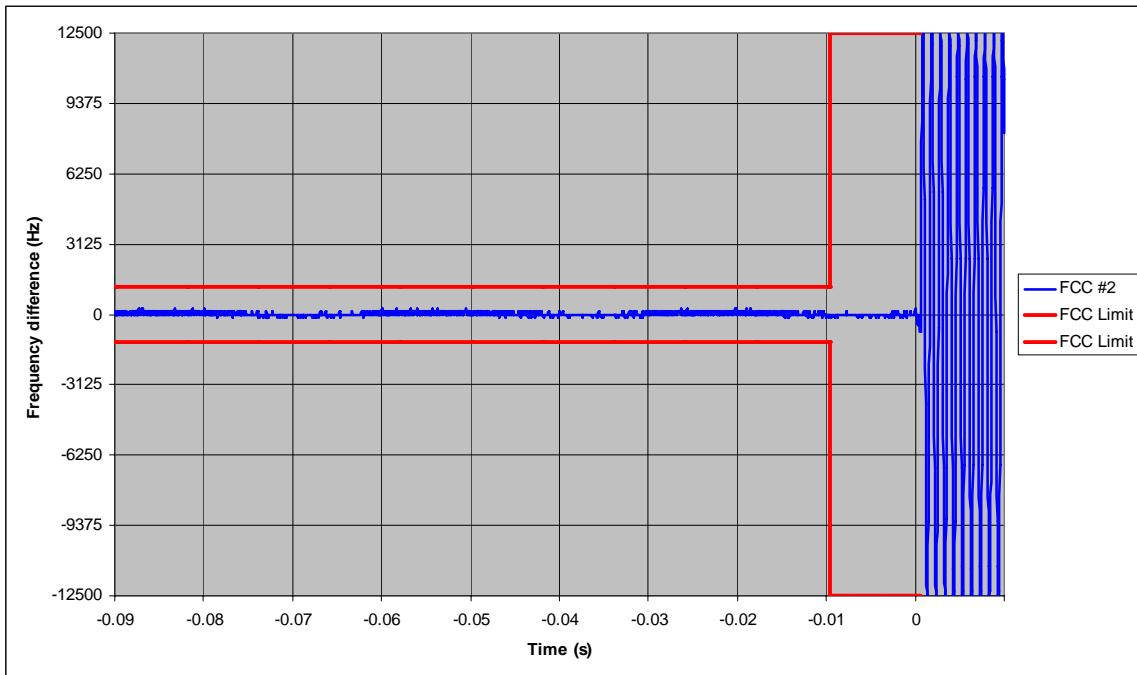


Figure 6K-4: Transient Frequency Behavior. 484.9875 MHz, 25 kHz Channel Spacing, De-Key (Not for FCC Review)