

SUBMITTED MEASURED DATA

<u>MEASUREMENT</u>	<u>EXHIBIT</u>	<u># OF PAGES</u>
I RF Power Output	9A	1
II Audio Response	9B	1
III Low Pass Filter Response	9C	1
IV Modulation Limiting	9D	1
V Occupied Bandwidth	9E	4
VI Conducted Spurious Emissions	9F	4
VII Radiated Spurious Emissions	9G	4
VIII Frequency Stability a. Temperature b. Supply Voltage	9H	1

RF POWER OUTPUT DATA

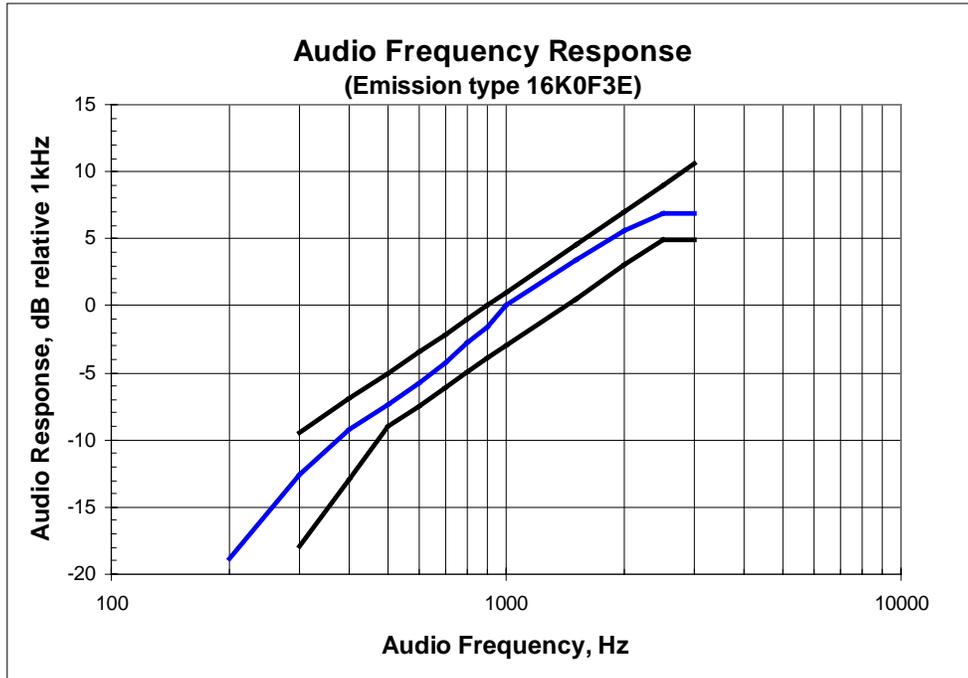
The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device.

Measured RF output	7.26	Watts
Normal DC Voltage	7.32	Volts
Normal DC Current	1.82	Amps
Primary Supply Voltage	7.50	Volts

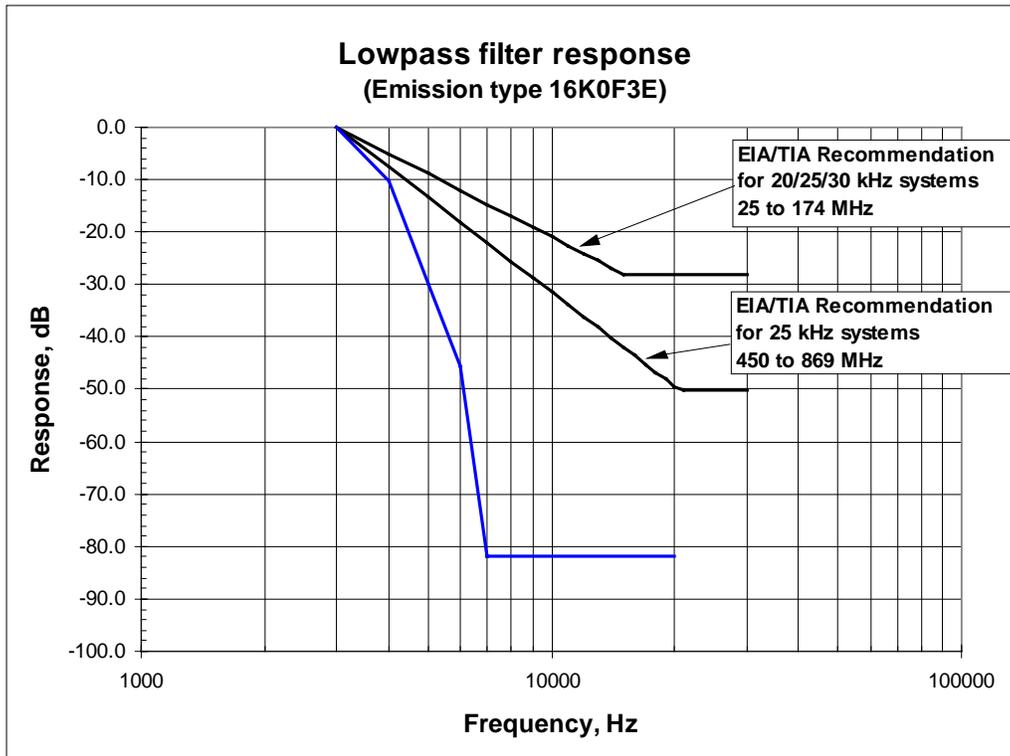
Measured RF output	3.03	Watts
Normal DC Voltage	7.37	Volts
Normal DC Current	1.28	Amps
Primary Supply Voltage	7.50	Volts

Measured RF output	0.84	Watts
Normal DC Voltage	7.43	Volts
Normal DC Current	0.75	Amps
Primary Supply Voltage	7.50	Volts

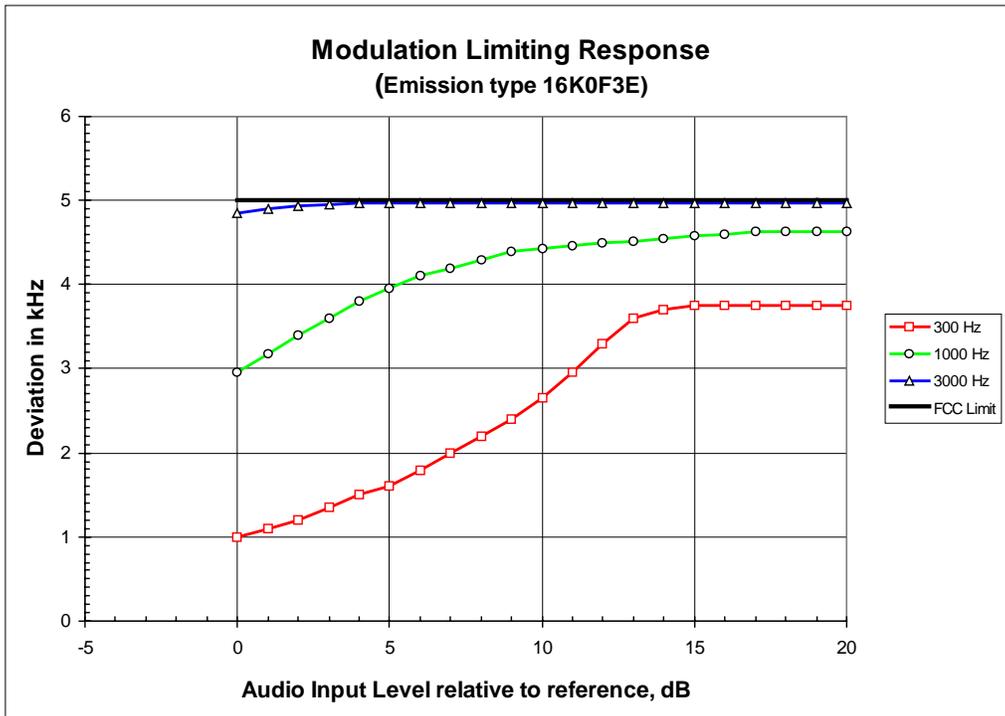
AUDIO RESPONSE



LOWPASS FILTER RESPONSE



MODULATION LIMITING



OCCUPIED BANDWIDTH DATA**BANDWIDTH CALCULATIONS:**

Carson's Rule for FM modulation is utilized to compute the bandwidth shown in the FCC emission designator. Carson's Rule is:

$$BW = 2 * (M + D) \quad \text{where: } BW = \text{Bandwidth}$$

M = Maximum Modulating Frequency
D = Deviation

Shown below are the calculations required for FCC ID: AZ492FT5785.

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EXHIBIT 9E

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

Emission Designator 16K0F3E

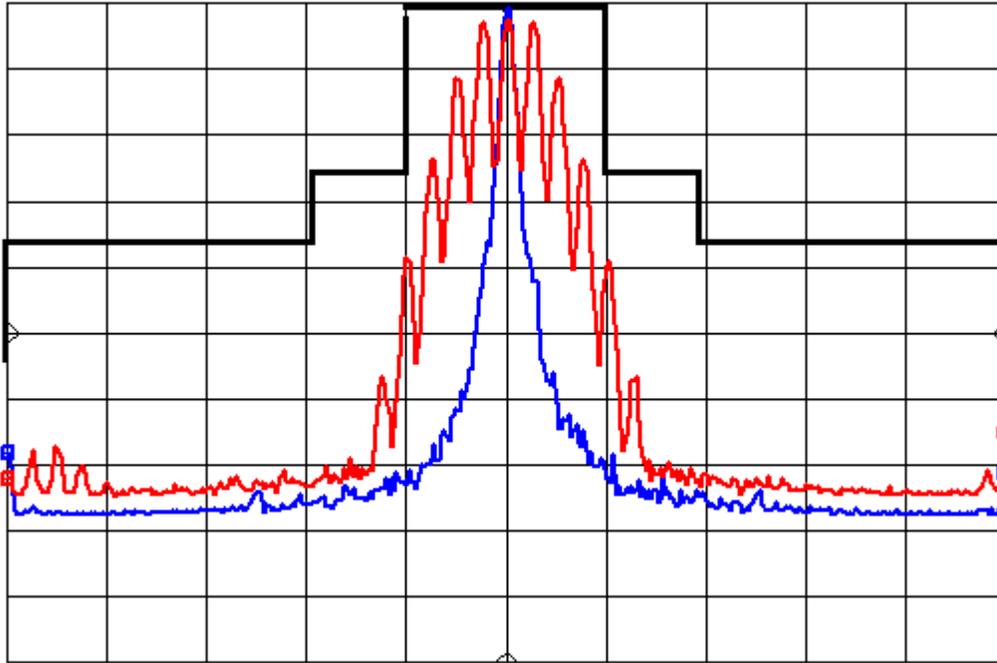
In this case, the maximum modulating frequency is 3 kHz with a 5 kHz deviation.

$$BW = 2(M+D) = 2*(3 \text{ kHz} + 5 \text{ kHz}) = 16 \text{ kHz} \implies 16K0$$

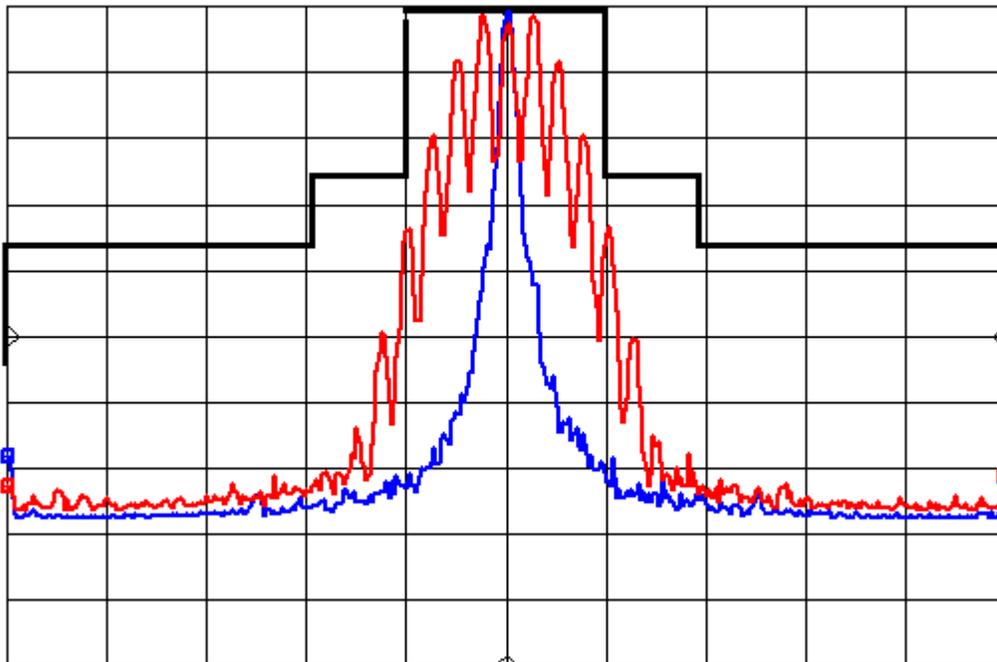
F3E portion of the designator indicates voice.

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

OCCUPIED BANDWIDTH DATA
20 kHz channel spacing with Emission 16K0F3E - Emission Mask B

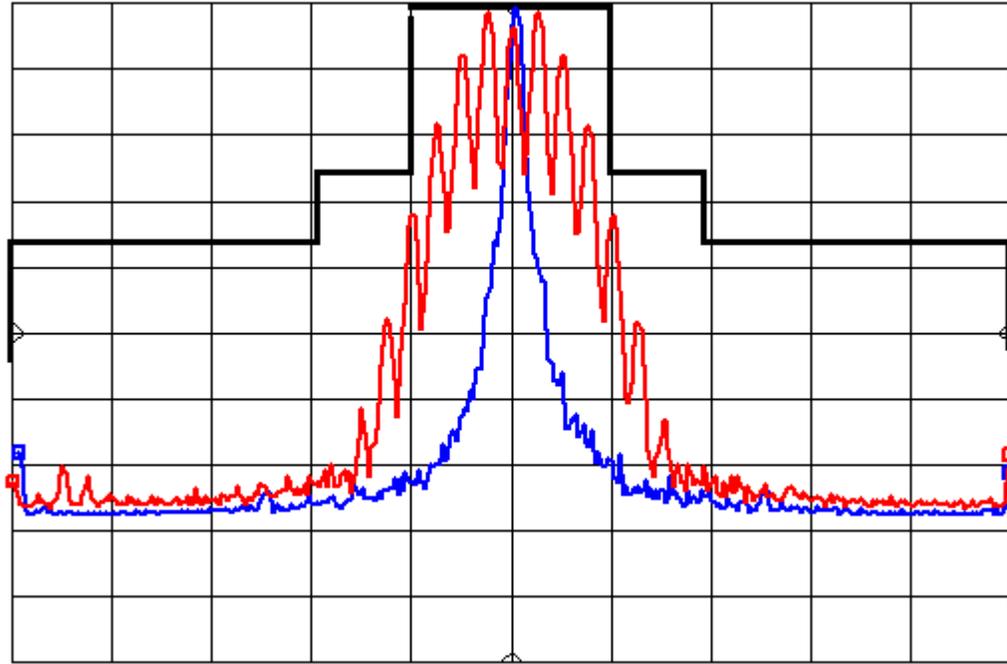


Modulation: 2500 Hz at audio level 16 dB above 50% deviation
Center Frequency 29.7 MHz Horizontal: 10 kHz/div Vertical :
10 dB/div
Resolution Bandwidth 300 Hz



Modulation: 2500 Hz at audio level 16 dB above 50% deviation + PL signaling
Center Frequency 29.7 MHz Horizontal: 10 kHz/div Vertical :
10 dB/div Resolution Bandwidth 300 Hz **EXHIBIT 9E**

OCCUPIED BANDWIDTH DATA
20 kHz channel spacing with Emission 16K0F3E - Emission Mask B

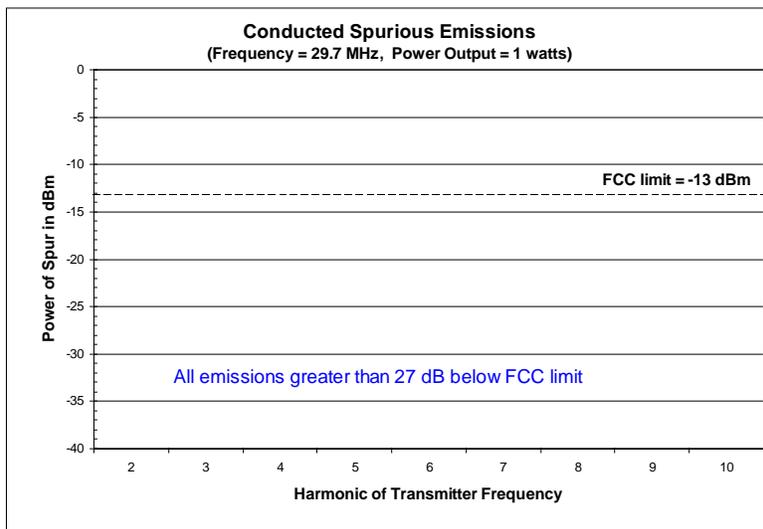
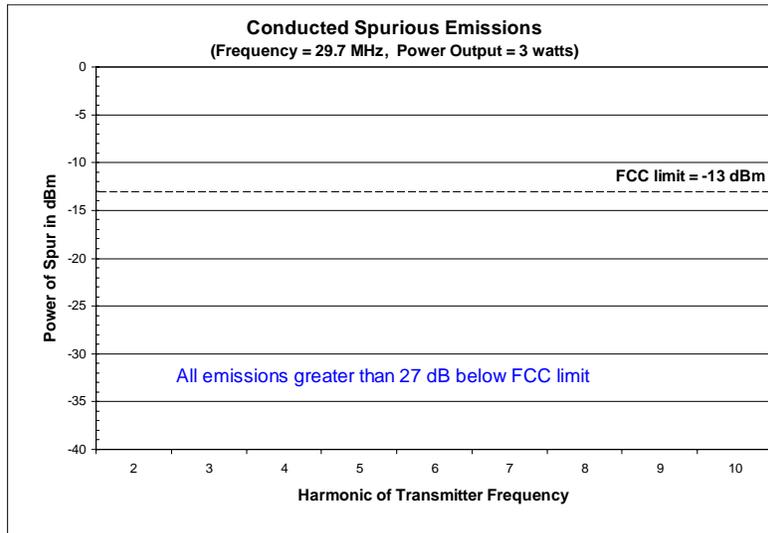
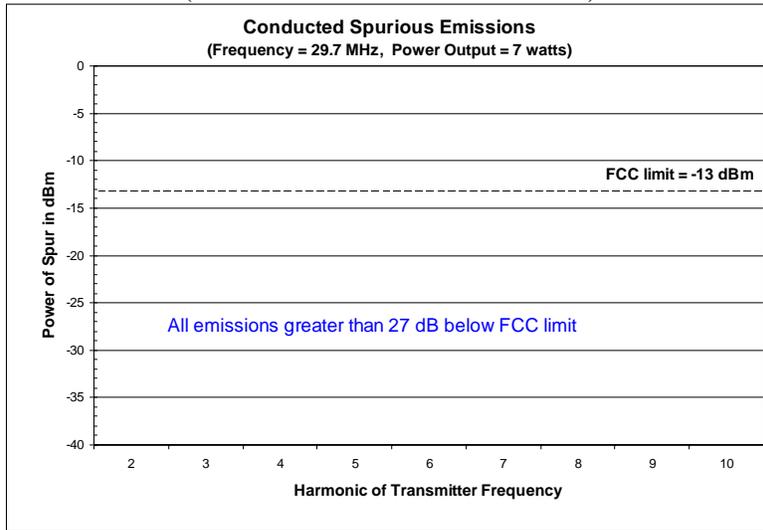


Modulation: 2500 Hz at audio level 16 dB above 50% deviation + DPL signaling
Center Frequency 29.7 MHz
10 dB/div
Resolution Bandwidth 300 Hz

Horizontal: 10 kHz/div

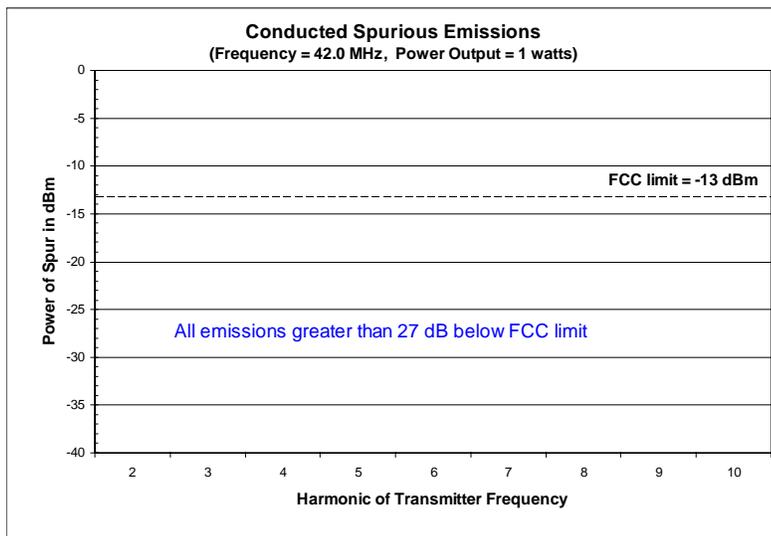
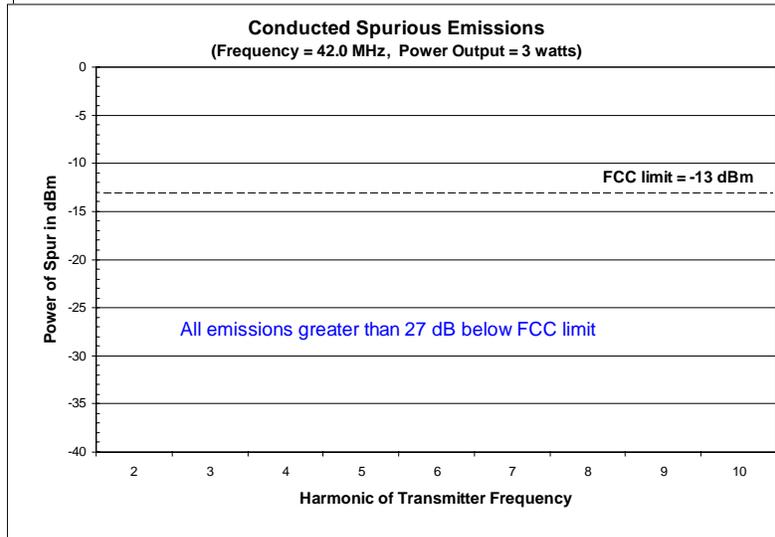
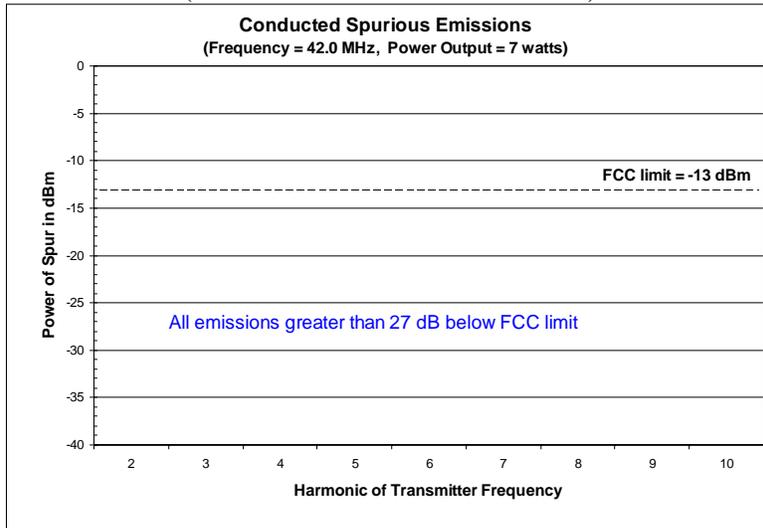
Vertical :

CONDUCTED SPURIOUS EMISSIONS
(Levels below -40 dBm are not shown)

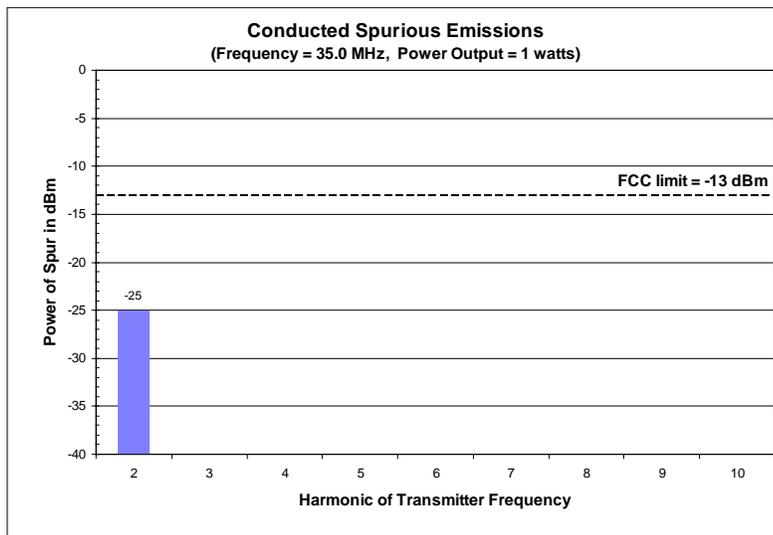
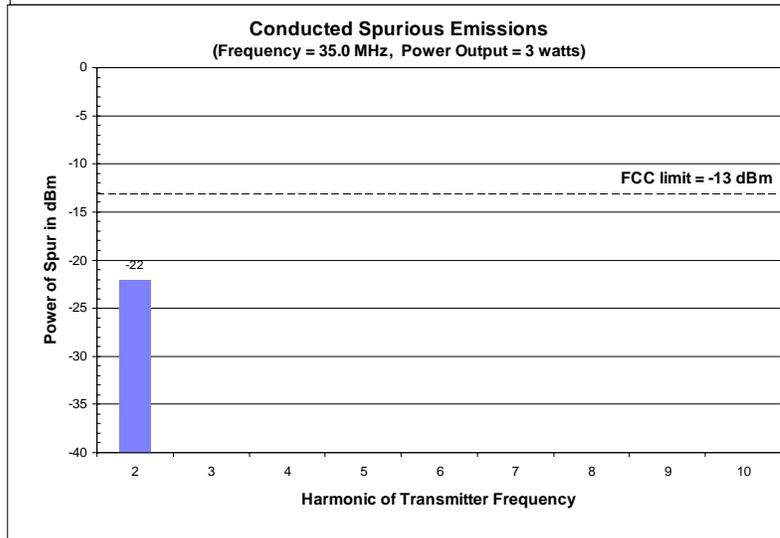
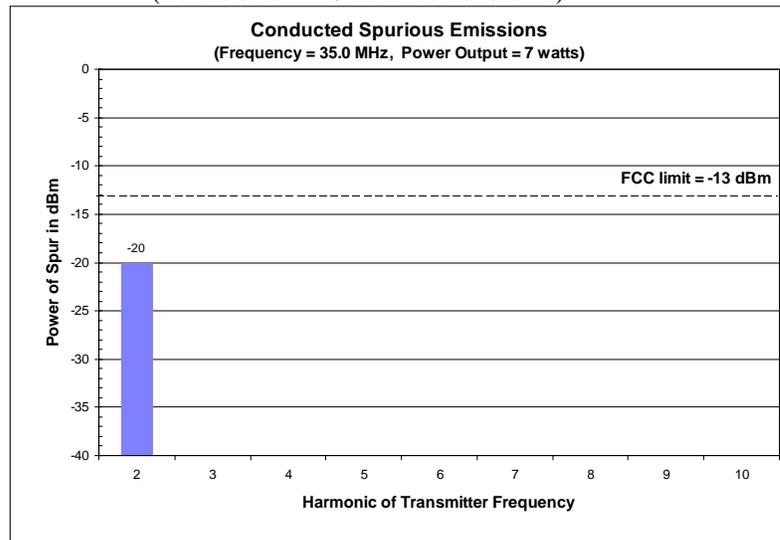


CONDUCTED SPURIOUS EMISSIONS

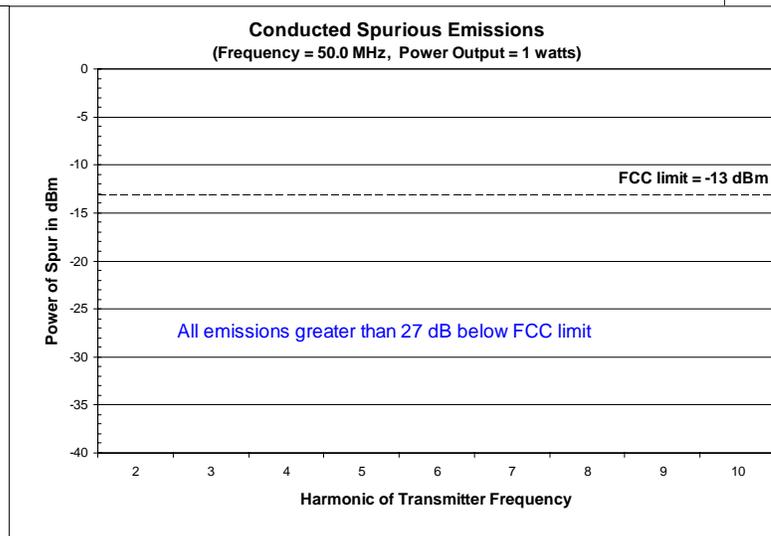
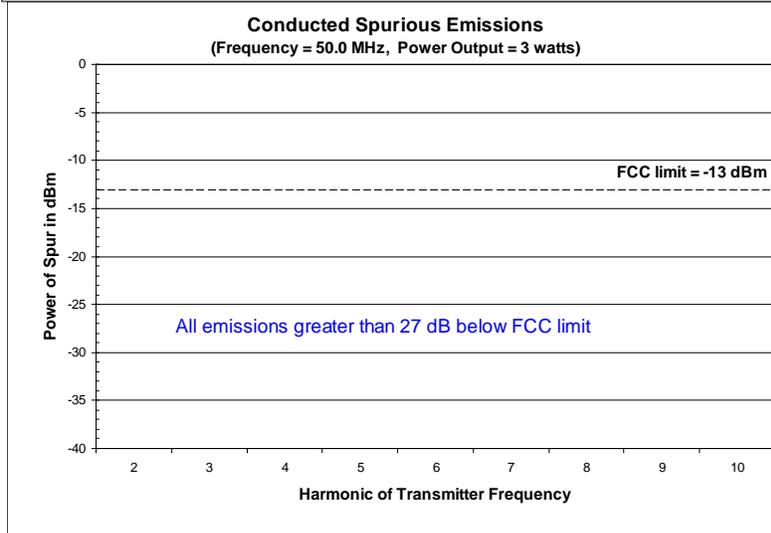
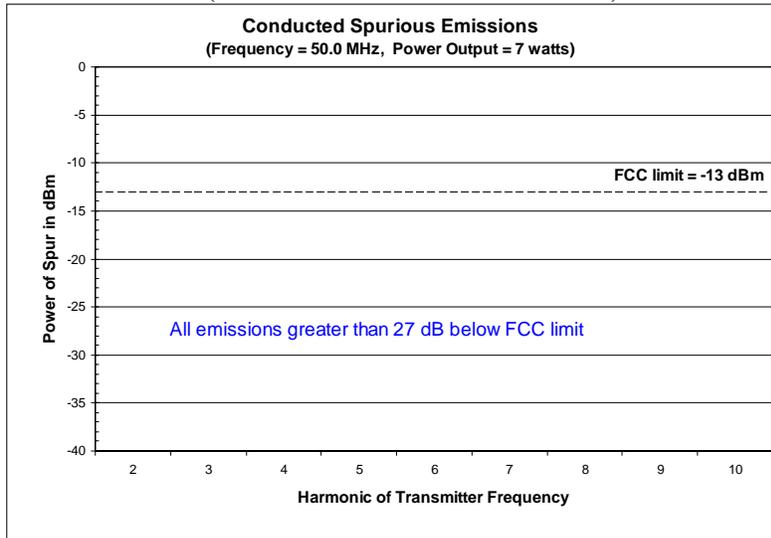
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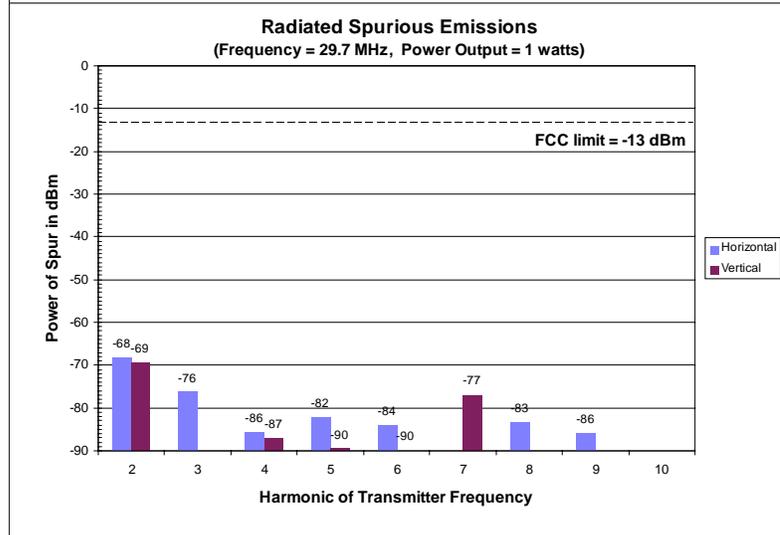
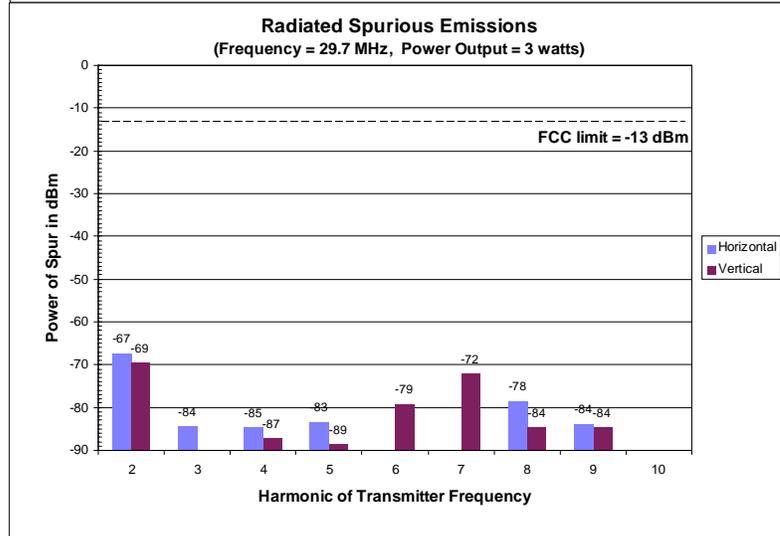
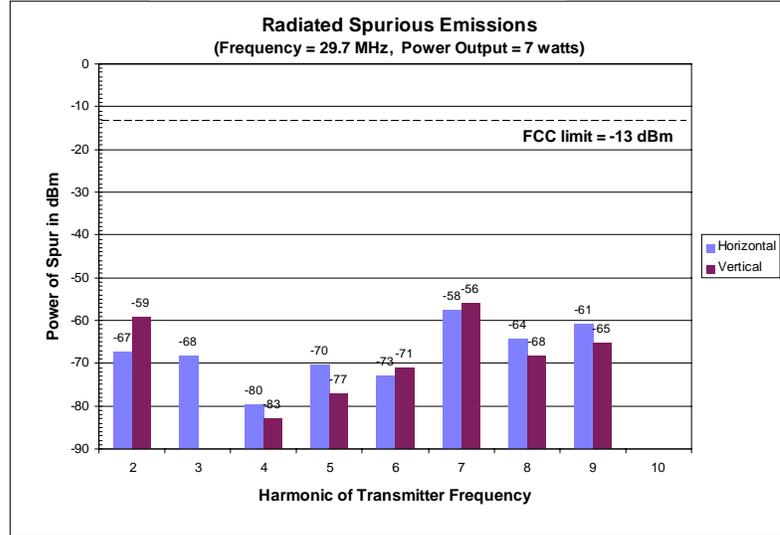
CONDUCTED SPURIOUS EMISSIONS
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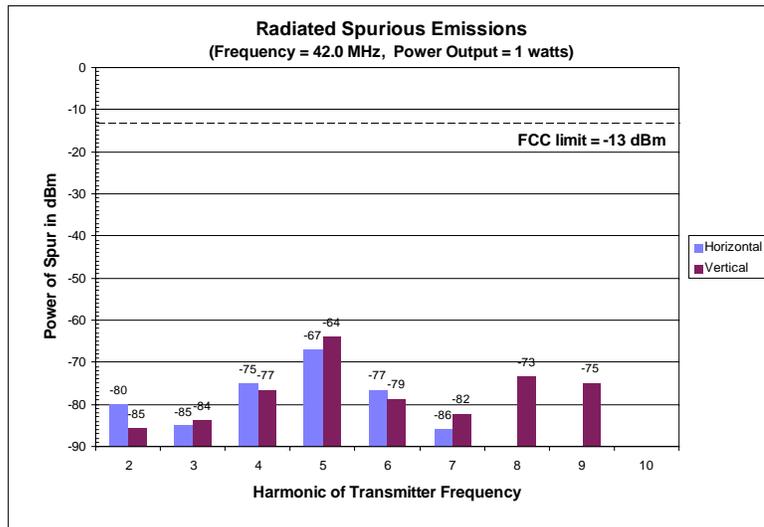
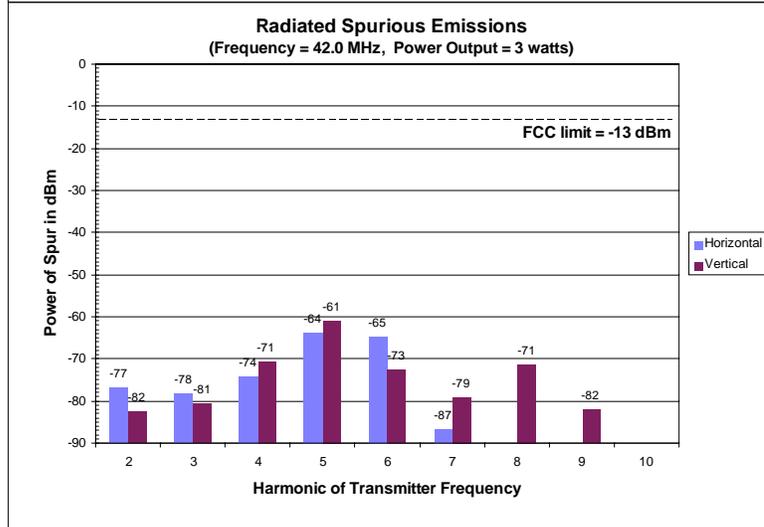
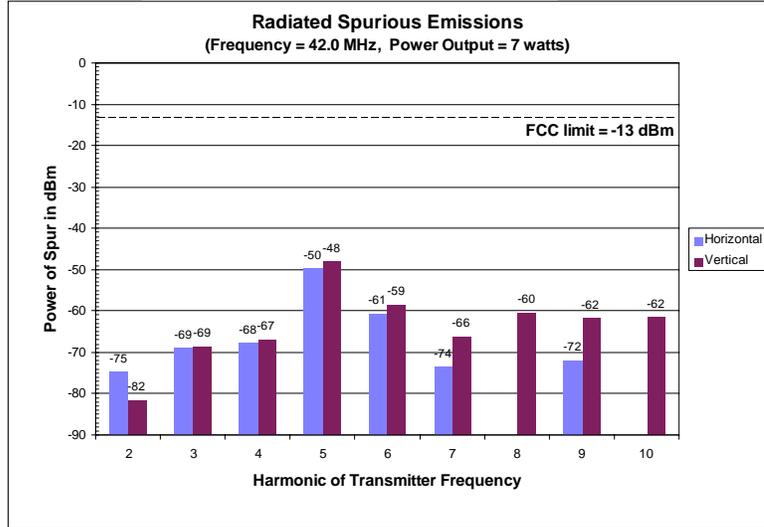
CONDUCTED SPURIOUS EMISSIONS
(Levels below -40 dBm are not shown)



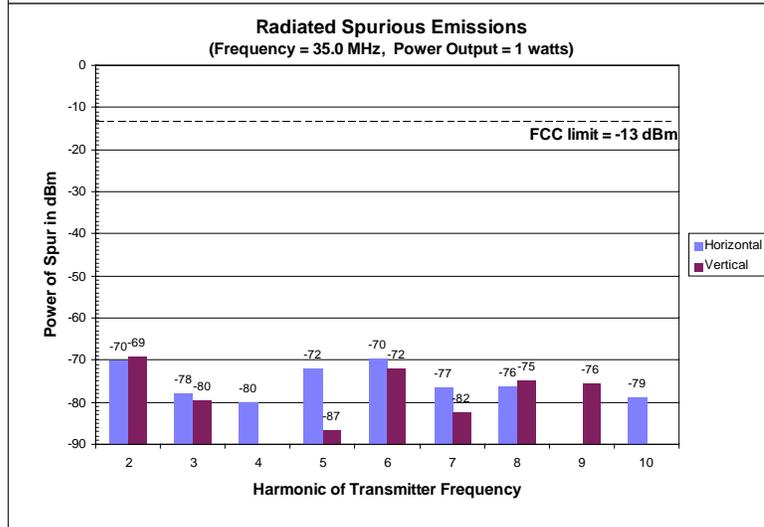
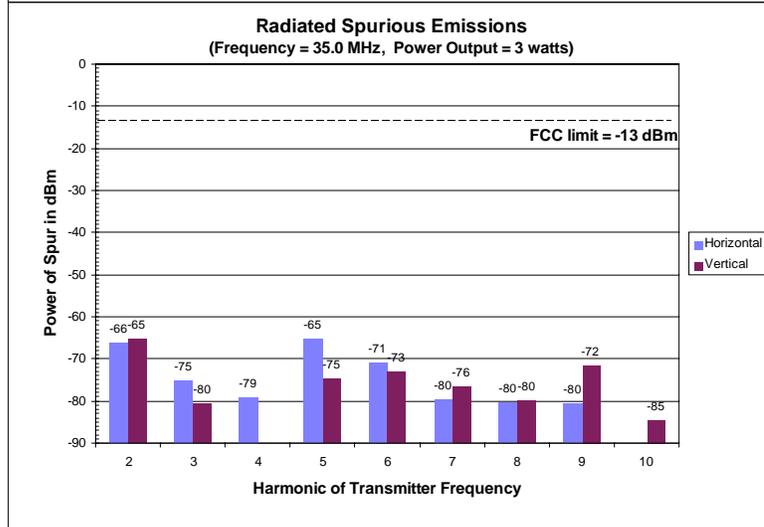
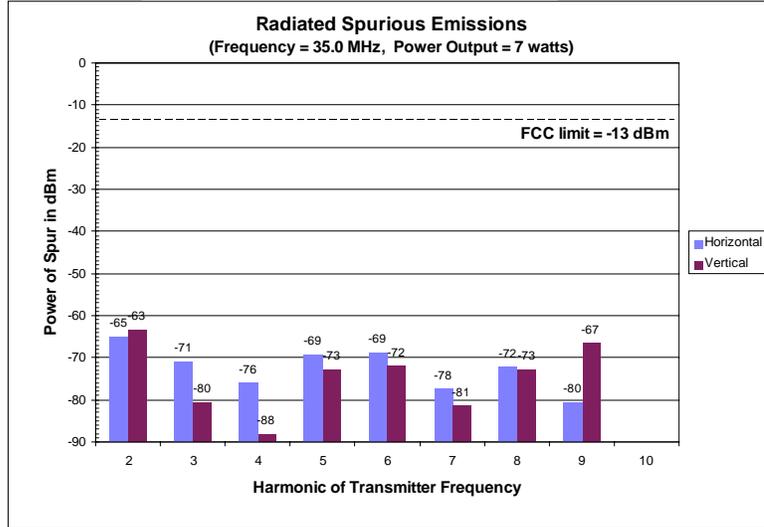
RADIATED SPURIOUS EMISSIONS



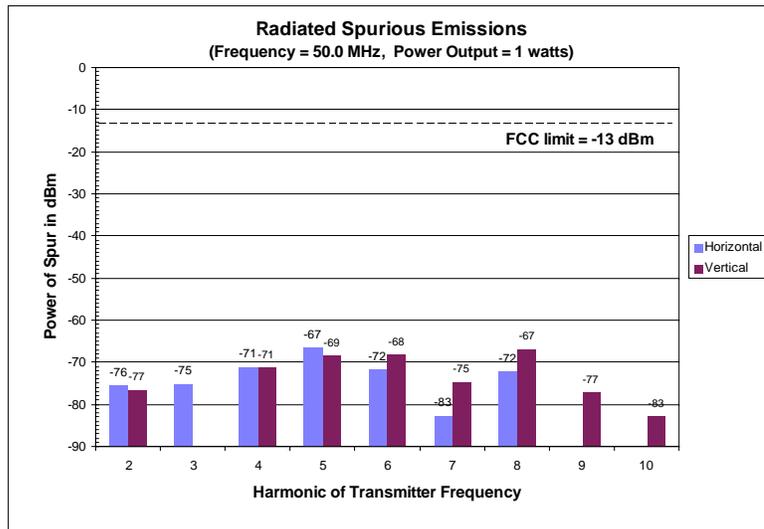
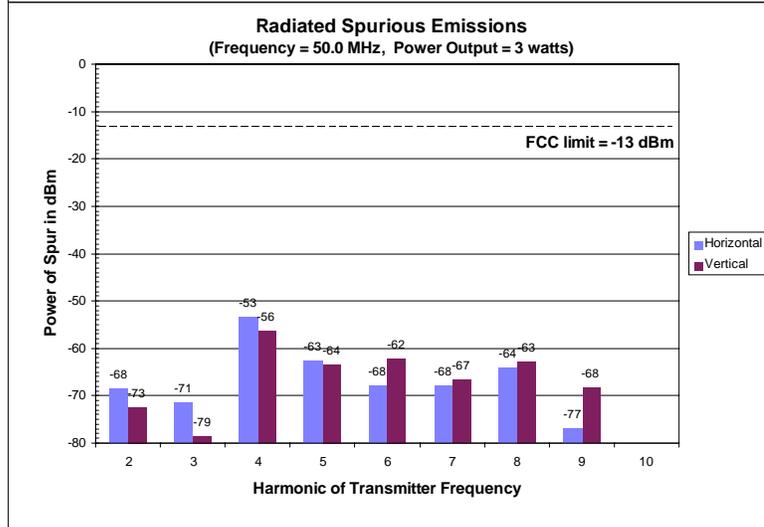
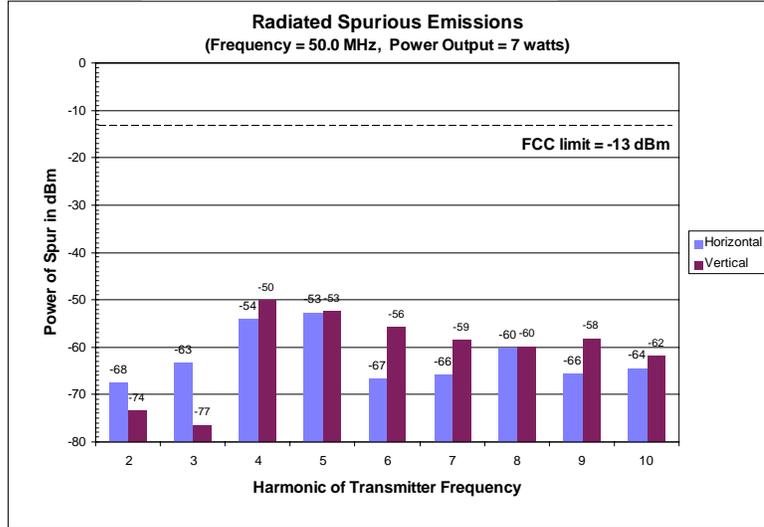
RADIATED SPURIOUS EMISSIONS



RADIATED SPURIOUS EMISSIONS



RADIATED SPURIOUS EMISSIONS



FREQUENCY STABILITY DATA

