

EXHIBIT 6

INDEX OF SUBMITTED MEASURED DATA

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

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See MOTRAD FCC.20745

EXHIBIT 6J – Power Line Conducted Emissions

See MOTEMC FCC.20745

EXHIBIT 6A

RF Conducted Power Output Power Data –

Frequency 425.025 MHz:

Output RF Power	1.0 Watts
DC Voltage	7.5 Volts
DC Current	1 Amps
Output RF Power	3.0 Watts
DC Voltage	7.5 Volts
DC Current	1.46 Amps
Output RF Power	5.7 Watts
DC Voltage	7.5 Volts
DC Current	2.06 Amps

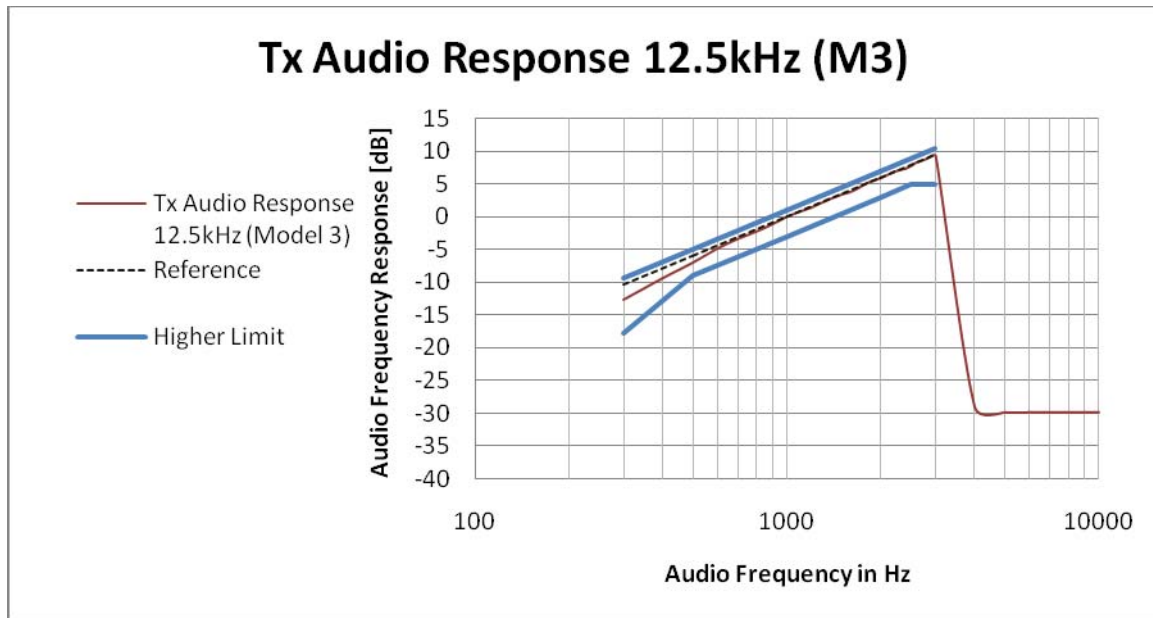
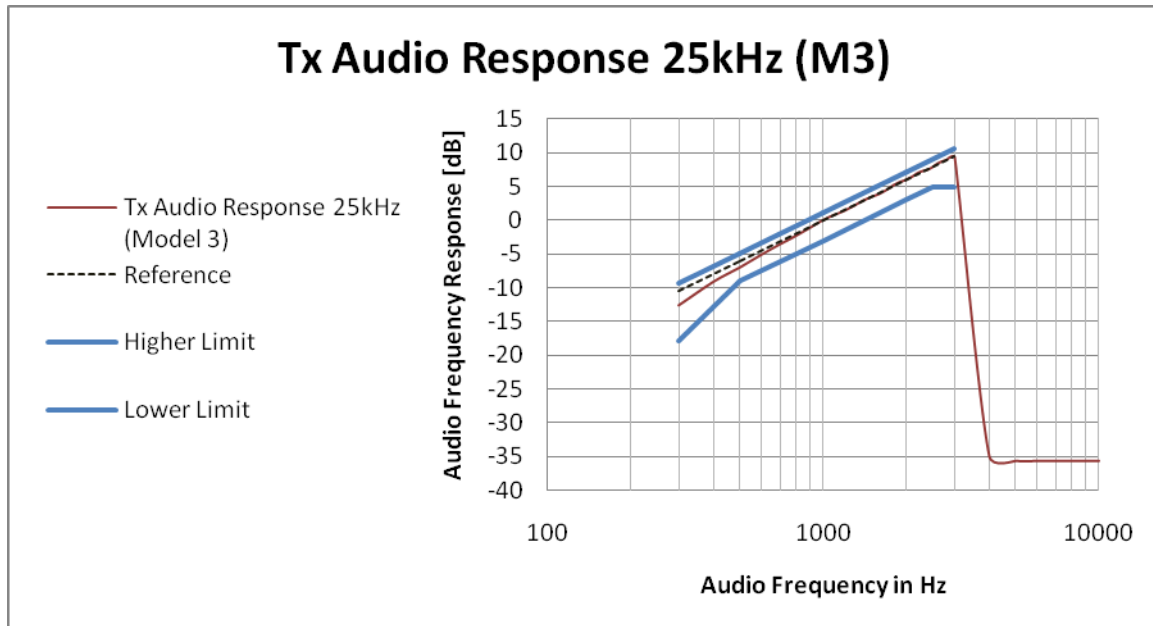
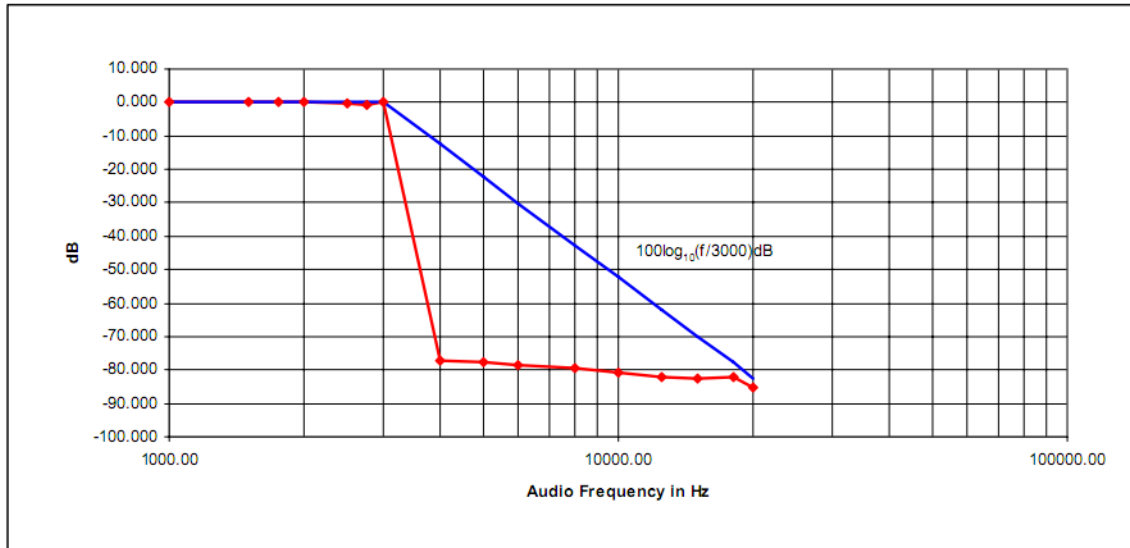
EXHIBIT 6B**Audio Frequency Response –****6B-1: Frequency 425.025 MHz, 12.5 kHz Channel Spacing:****6B-2: Frequency 425.025 MHz, 25 kHz Channel Spacing:**

EXHIBIT 6C**Audio Low Pass Filter Response (Transmit) --****6C-1: 425.025MHz, 12.5 kHz Channel Spacing:****Transmit Low Pass Filter Frequency Response**

(Freq: 425.025 MHz, ChSp: 12.5kHz)

**6C-2: 425.025MHz, 25 kHz Channel Spacing:****Transmit Low Pass Filter Frequency Response**

(Freq: 425.025 MHz, ChSp: 25kHz)

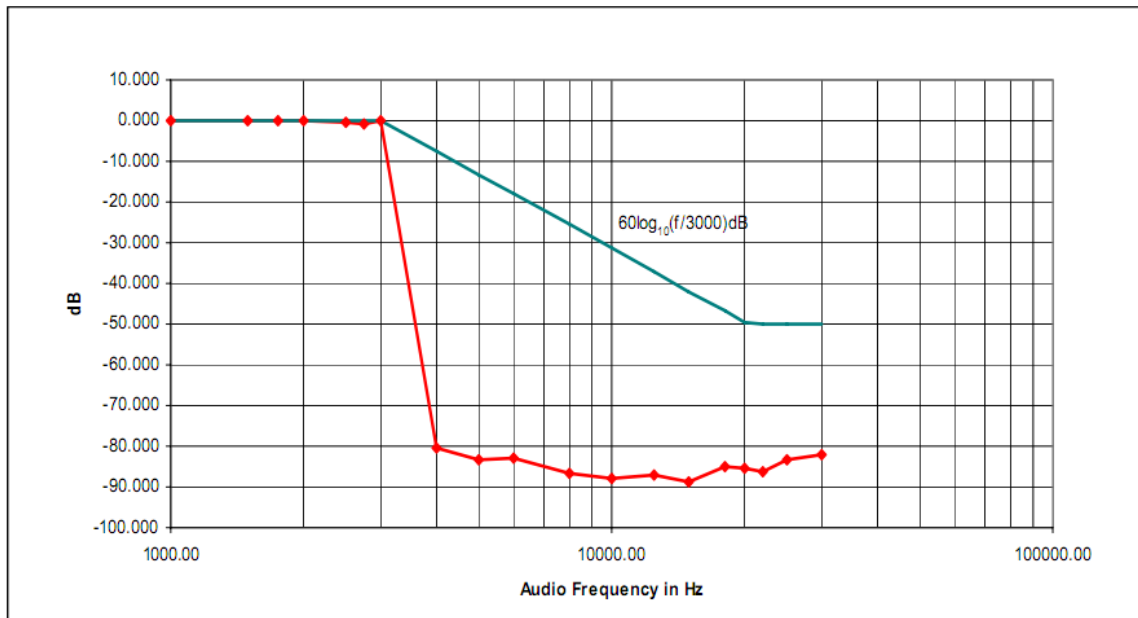


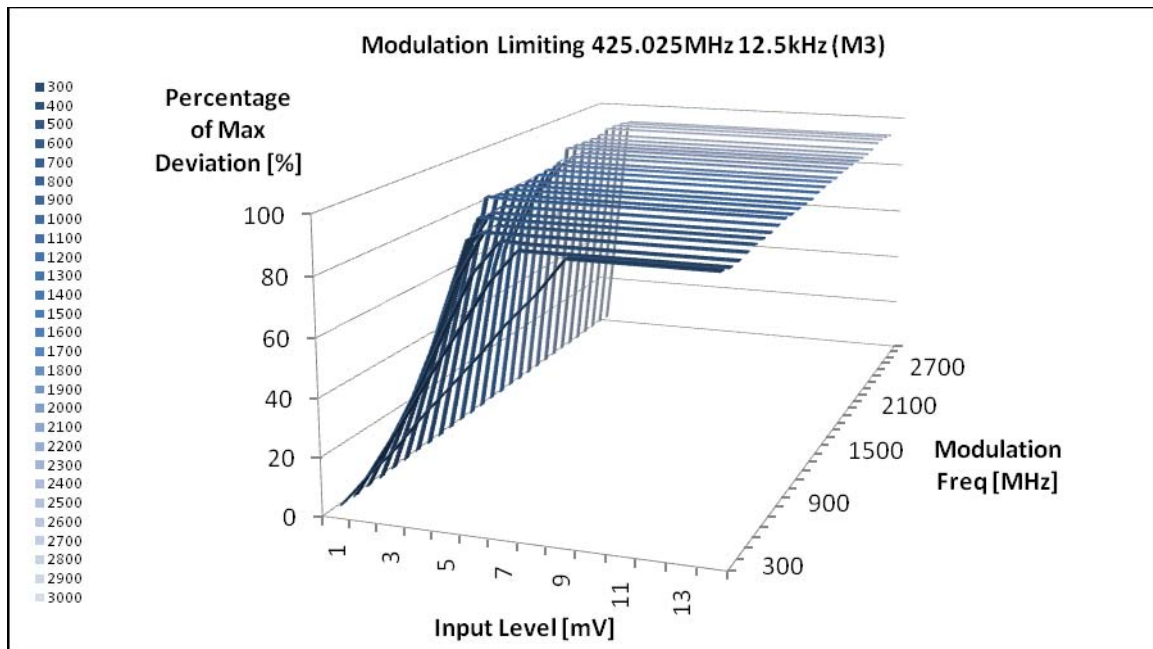
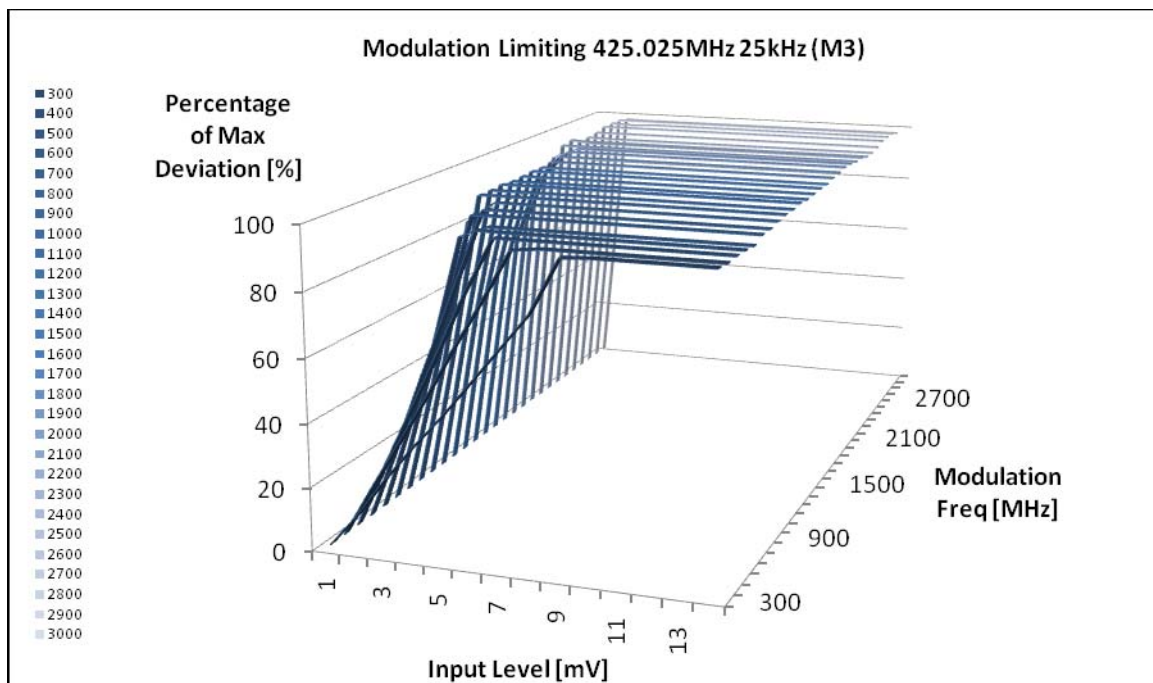
EXHIBIT 6D**Modulation Limiting –****6D-1: Frequency 425.025 MHz, 12.5 kHz Channel Spacing:****6D-2: Frequency 425.025 MHz, 25 kHz Channel Spacing:**

EXHIBIT 6E**Occupied Bandwidth –**

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.

$$BW = 2(M+D) = 2*(3 \text{ kHz} + 5 \text{ kHz}) = 16 \text{ kHz} \Rightarrow 16K0 \text{ Applicant: Motorola Inc.}$$

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.

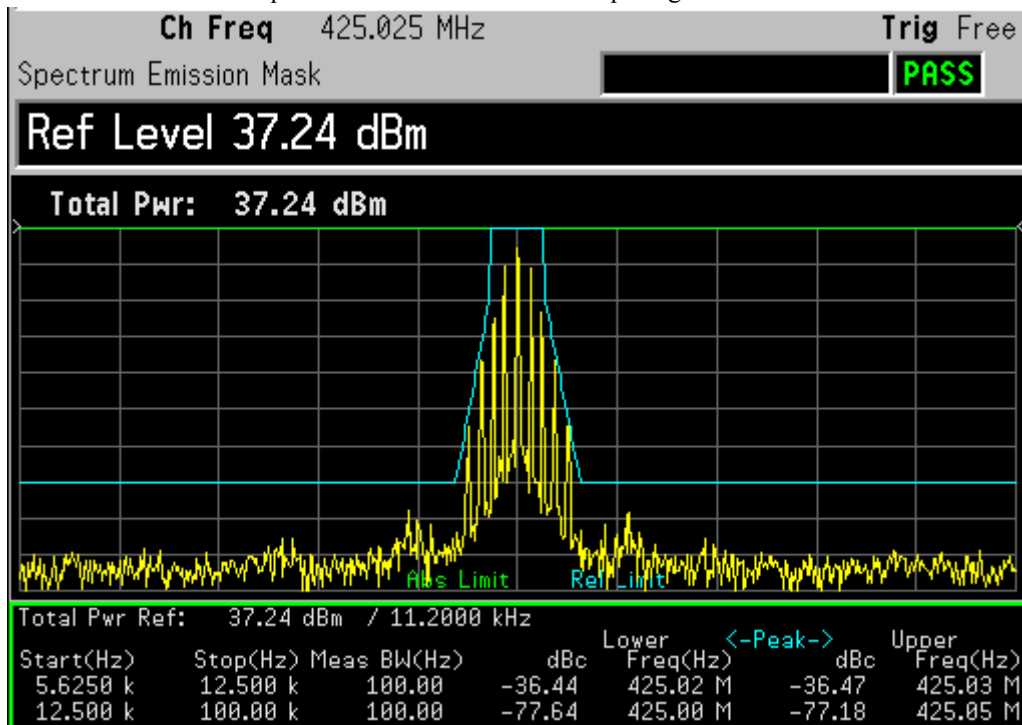
$$BW = 2(M+D) = 2*(6 \text{ kHz} + 4 \text{ kHz}) = 20 \text{ kHz} \Rightarrow 20K0$$

F1E portion of the designator indicates digital voice.

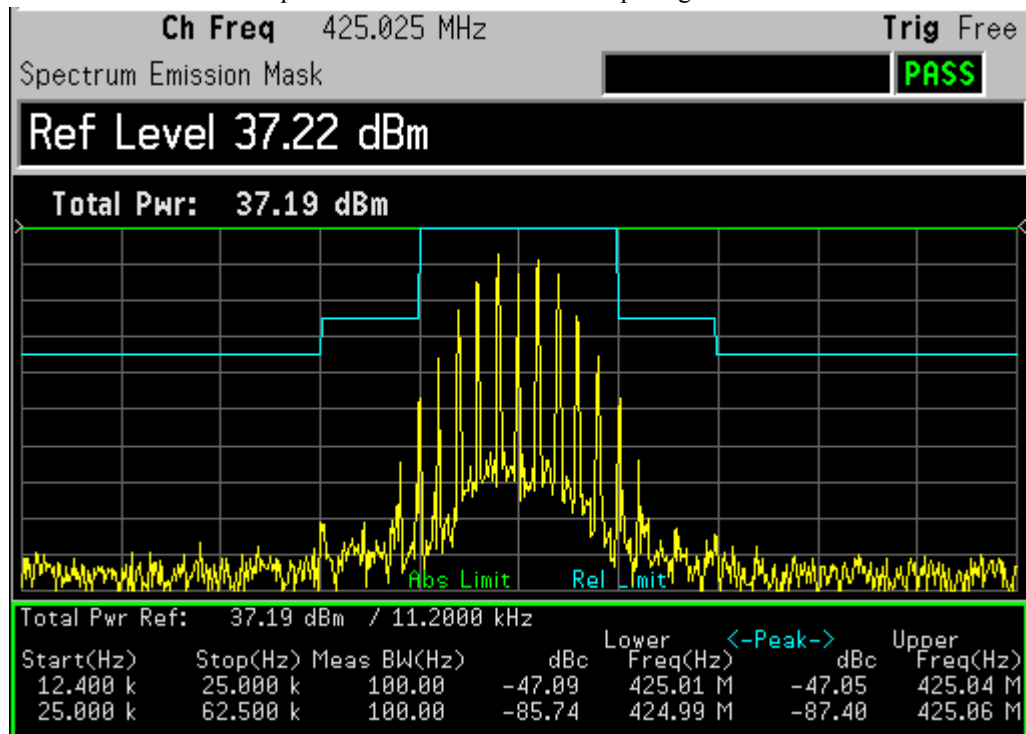
Therefore, the entire designator for 20 kHz channelization analog voice is 20K0F1E.

Occupied Bandwidth (Analog Voice: 11K0F3E)

Freq. = 425.025 MHz Channel Spacing = 12.5 kHz

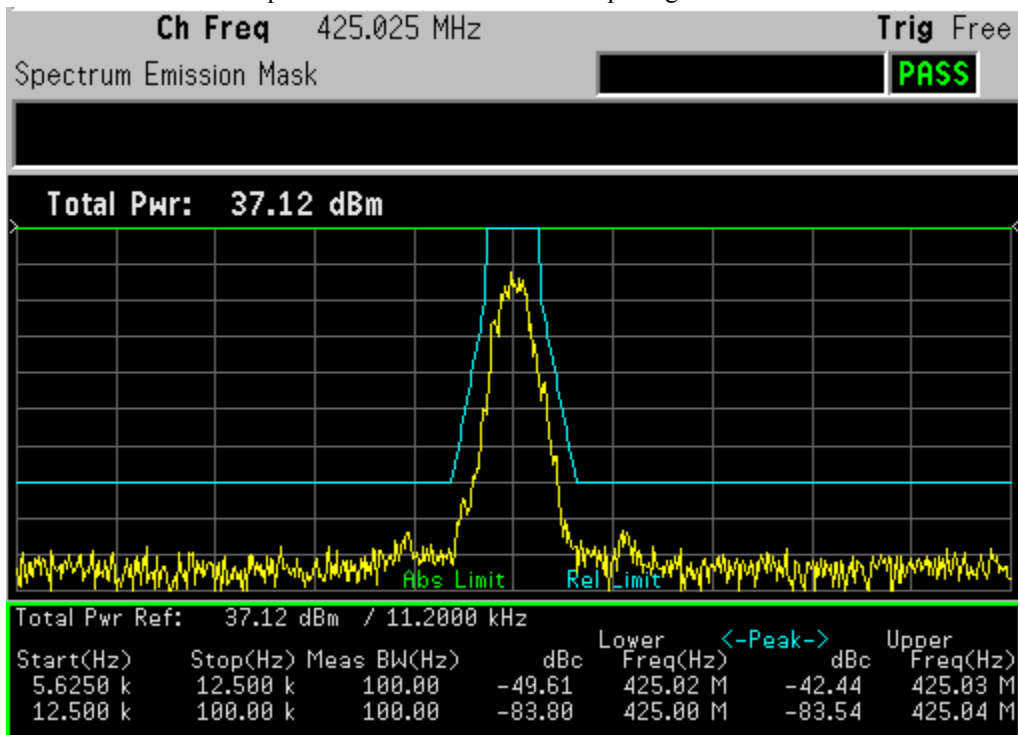
**Occupied Bandwidth** (Analog Voice: 16K0F3E)

Freq. = 425.025 MHz Channel Spacing = 25 kHz

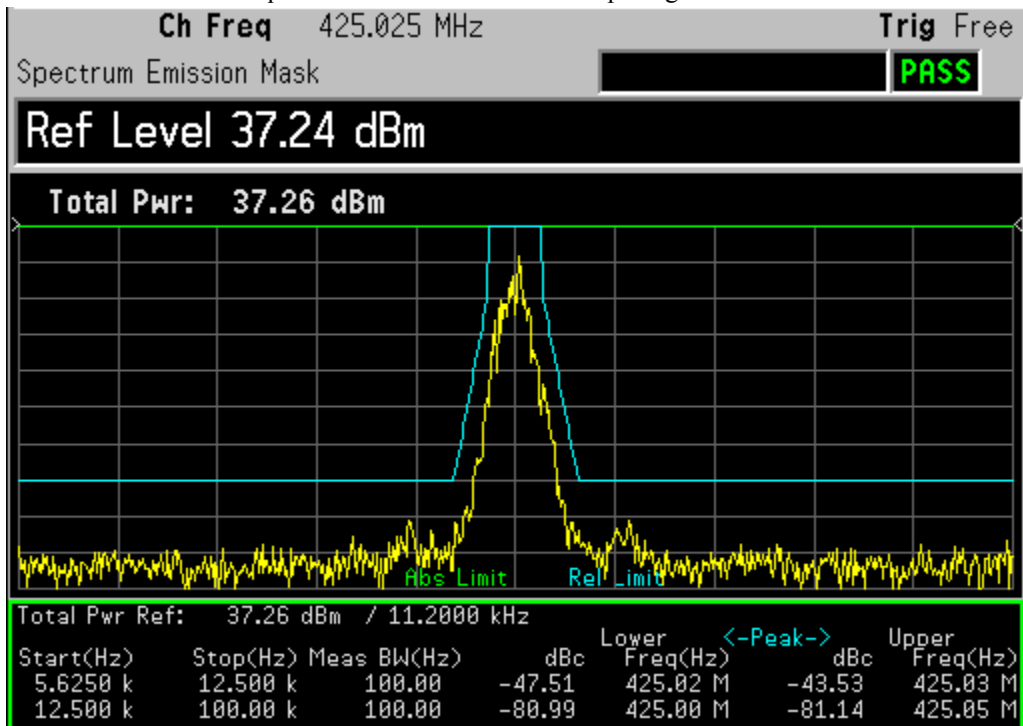


Occupied Bandwidth (Digital Data: 8K10F1D)

Freq. = 425.025 MHz Channel Spacing = 12.5 kHz

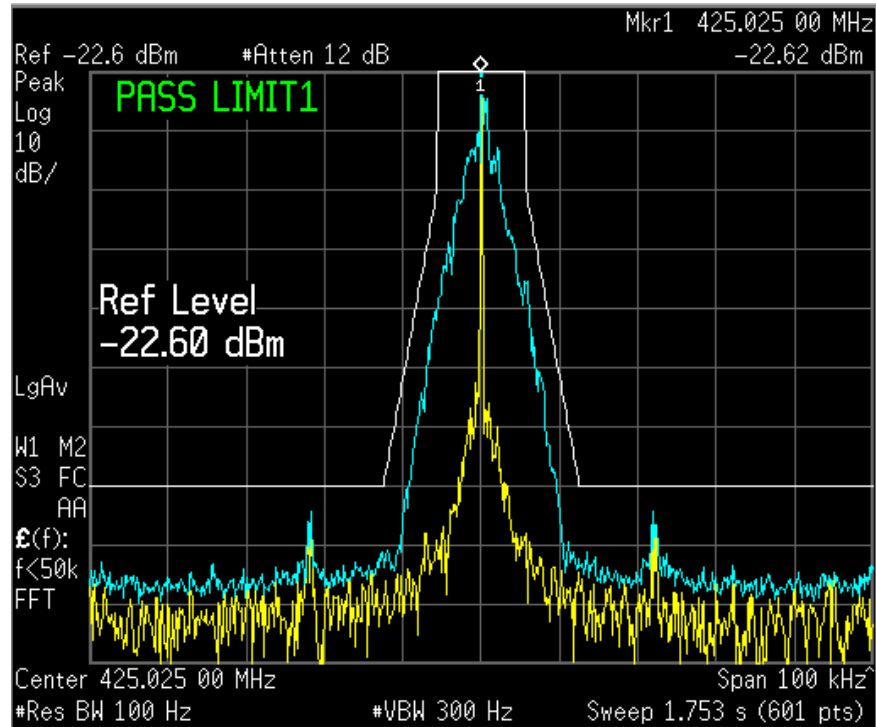
**Occupied Bandwidth** (Digital Voice: 8K10F1E)

Freq. = 425.025 MHz Channel Spacing = 12.5 kHz



Occupied Bandwidth (Digital Voice: 8K10F1W)

Freq. = 425.025 MHz Channel Spacing = 12.5 kHz

**Occupied Bandwidth** (Digital Voice Encryption: 20K0F1E)

Freq. = 425.025 MHz Channel Spacing = 12.5 kHz

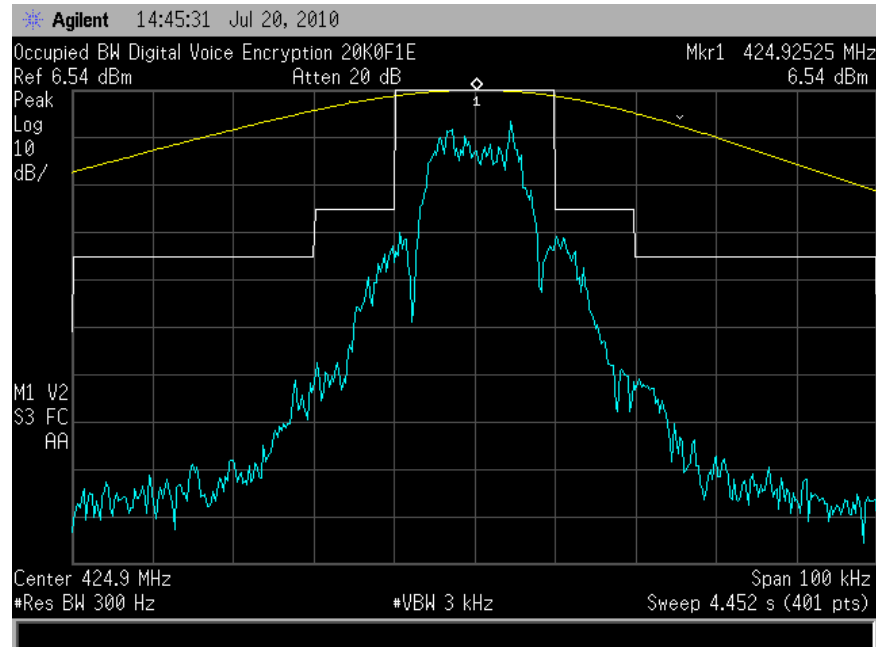
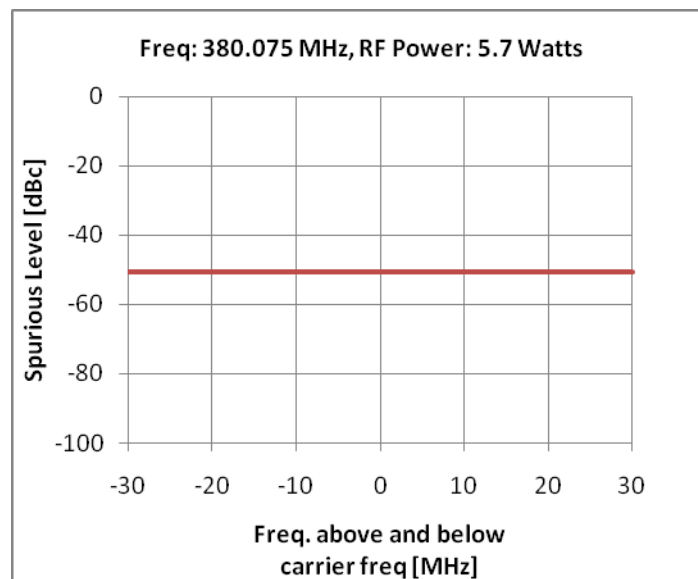
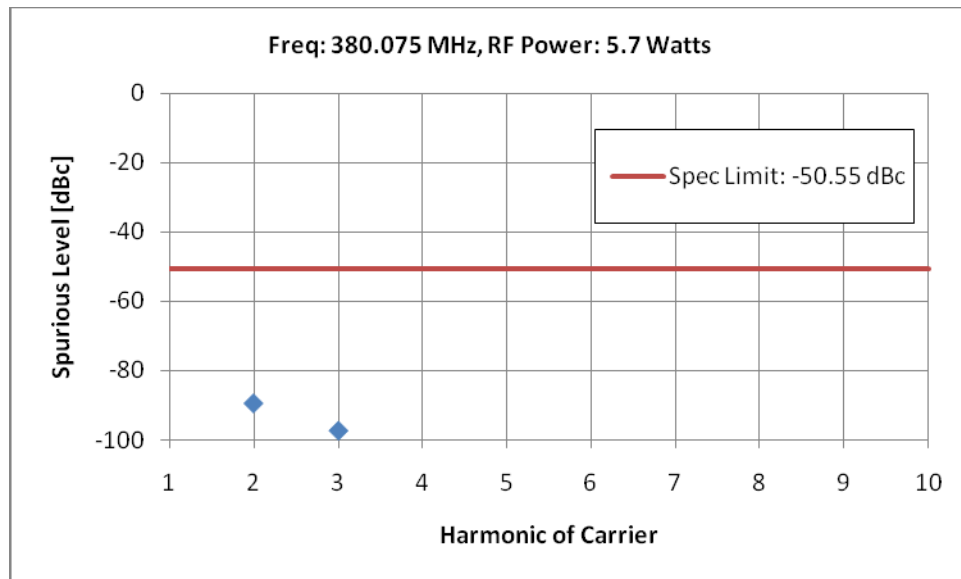
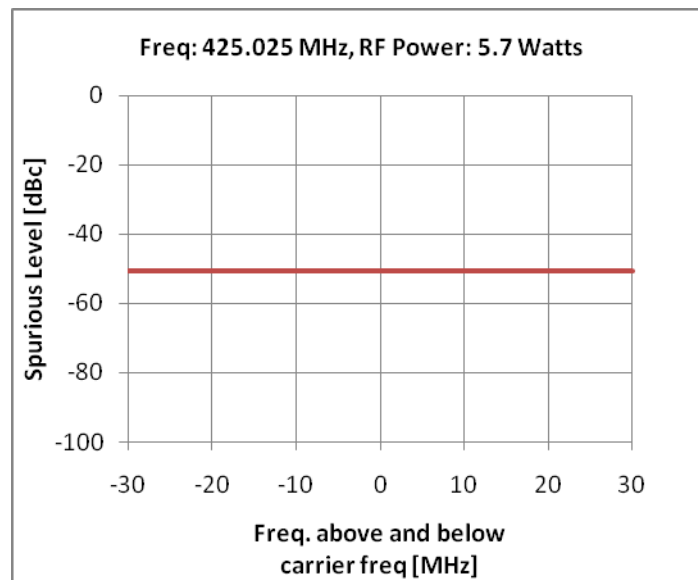
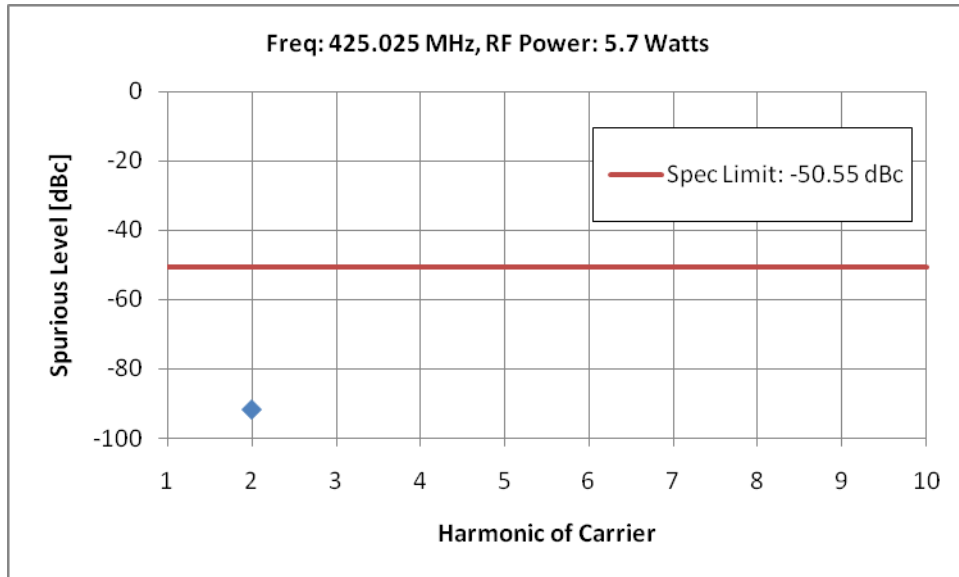


EXHIBIT 6F**Conducted Spurious Emission – Pursuant 47 CFR 2.1047 and 2.1033(c) (13)**

Note: Lines on graphs correspond to the FCC limit of -13dBm.
Spurs below 100dBc are not shown.

6F-1: High Power 380.075 MHz, 25 kHz Channel Spacing:

6F-2: High Power 425.025 MHz, 25 kHz Channel Spacing:

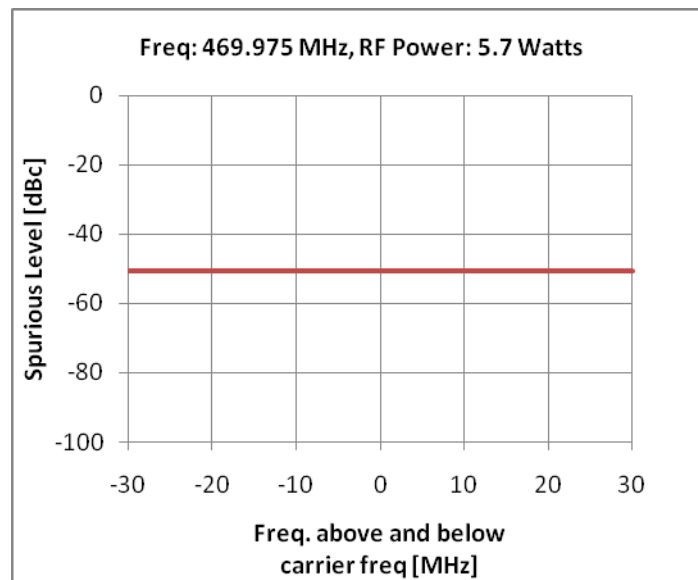
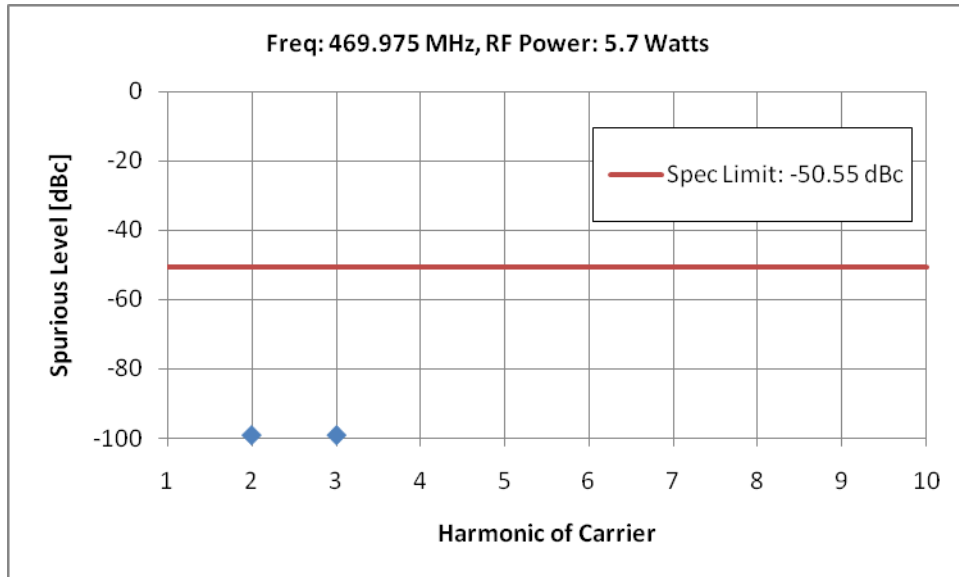
6F-3: High Power 469.975 MHz, 25 kHz Channel Spacing:

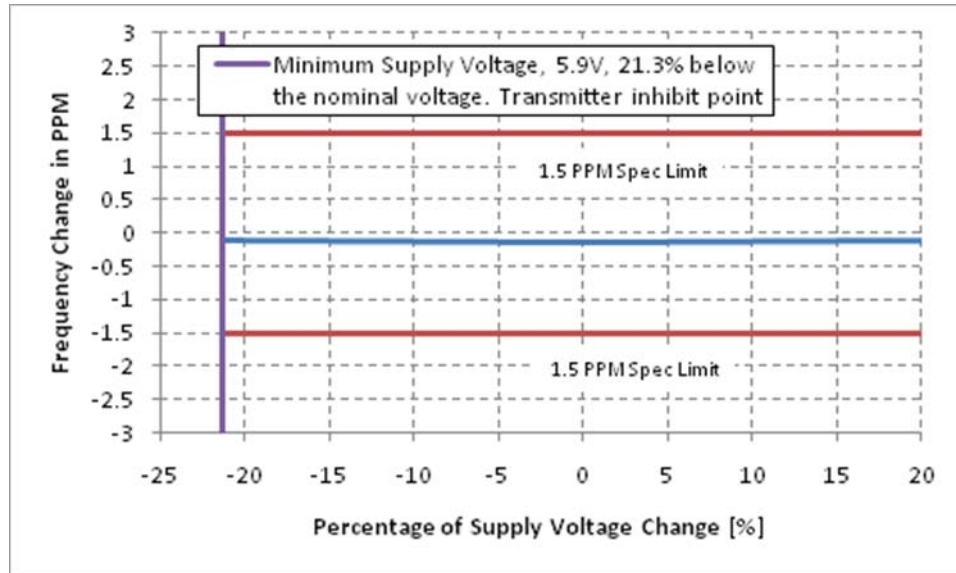
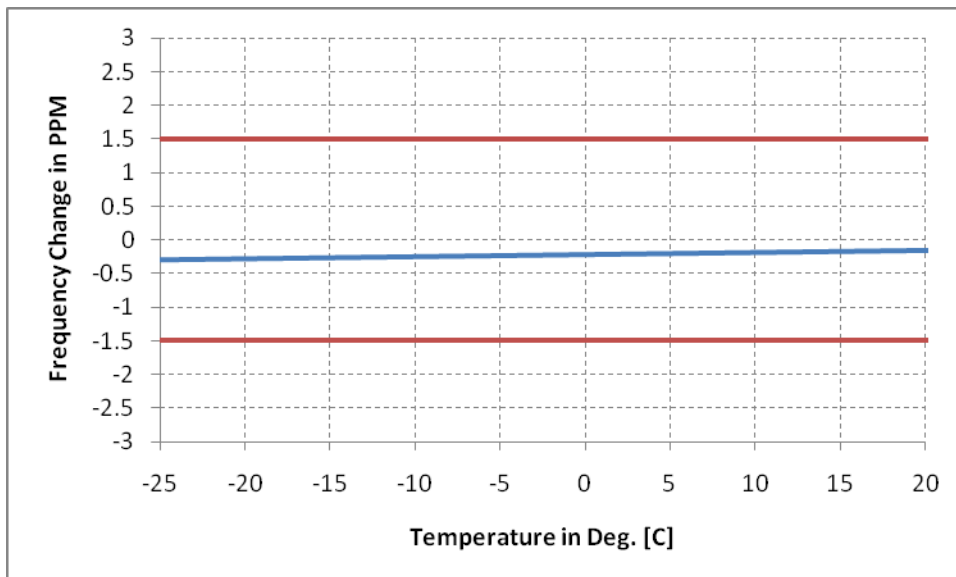
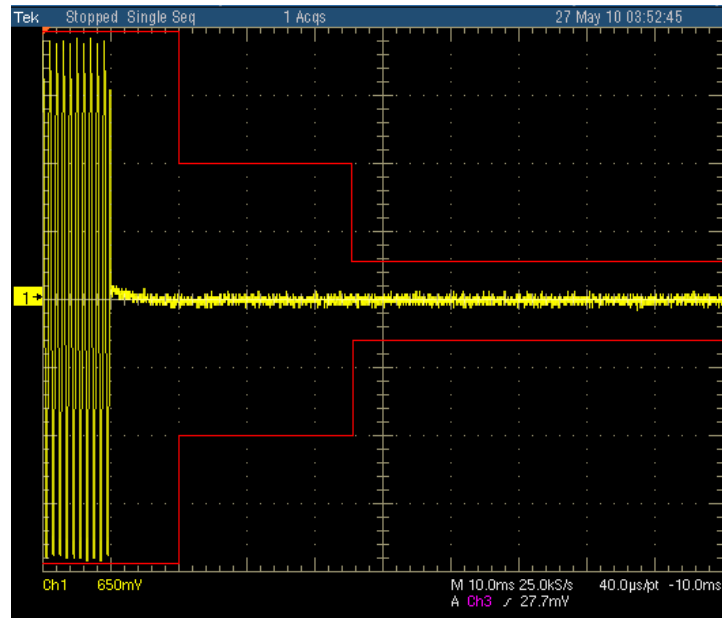
EXHIBIT 6G**Frequency Stability (Volt/Temp)****6G-1: 424.925 MHz vs. Supply Voltage:****6G-2: 424.925 MHz vs. Temperature:**

EXHIBIT 6H**Transient Frequency Behavior****6H-1: Freq: 425.025 MHz, 25 kHz Channel Spacing – Tx On:****6H-2: Freq: 425.025 MHz, 25 kHz Channel Spacing – Tx Off:**