

**EXHIBIT 6**

**INDEX OF SUBMITTED MEASURED DATA**

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

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**EXHIBIT 6B** – Audio Frequency Response

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6E-4 –485.025 MHz, 12.5 kHz Channel Spacing (Digital Data)

6E-5 –425.025 MHz, 12.5 kHz Channel Spacing (Digital Voice)

6E-6 –485.025 MHz, 12.5 kHz Channel Spacing (Digital Voice)

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6H-1 - Max Power 425.025 MHz, 12.5 kHz Channel Spacing

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6I-4 – 485.025 MHz, 12.5 kHz Channel Spacing – Transmitter Off

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)

**Frequency = 425.025 MHz:**

Output RF power	1.0 Watts
DC Voltage	7.50 Volts
DC Current	1.45 Amps

Output RF power	3.00 Watts
DC Voltage	7.50 Volts
DC Current	1.75 Amps

Output RF power	5.7 Watts
DC Voltage	7.50 Volts
DC Current	2.08 Amps

**Frequency = 485.025 MHz:**

Output RF power	1.0 Watts
DC Voltage	7.50 Volts
DC Current	1.45 Amps

Output RF power	3.00 Watts
DC Voltage	7.50 Volts
DC Current	1.75 Amps

Output RF power	5.7 Watts
DC Voltage	7.50 Volts
DC Current	2.08 Amps

**EXHIBIT 6B**

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

**Audio Frequency Response**  
(Freq: 425.075MHz, ChSp: 12.5kHz)

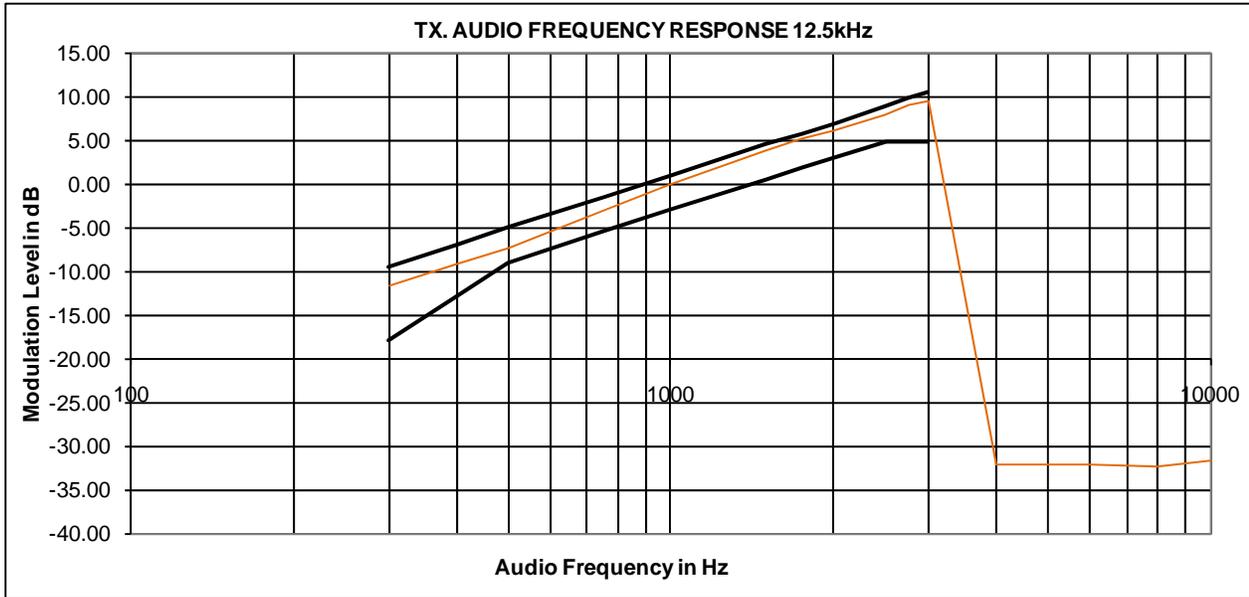


Exhibit 6B-1

**Audio Frequency Response**  
(Freq: 485.075MHz, ChSp: 12.5kHz)

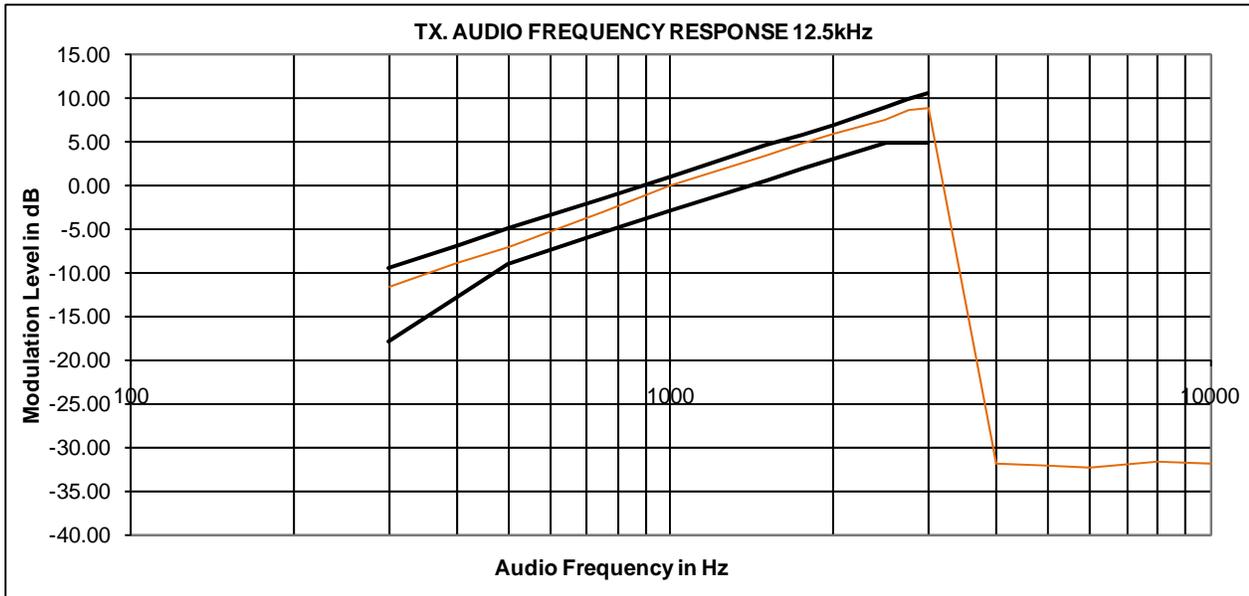


Exhibit 6B-2

EXHIBIT 6C

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

Transmit Low Pass Filter Frequency Response

(Freq: 425.075MHz, ChSp: 12.5kHz)

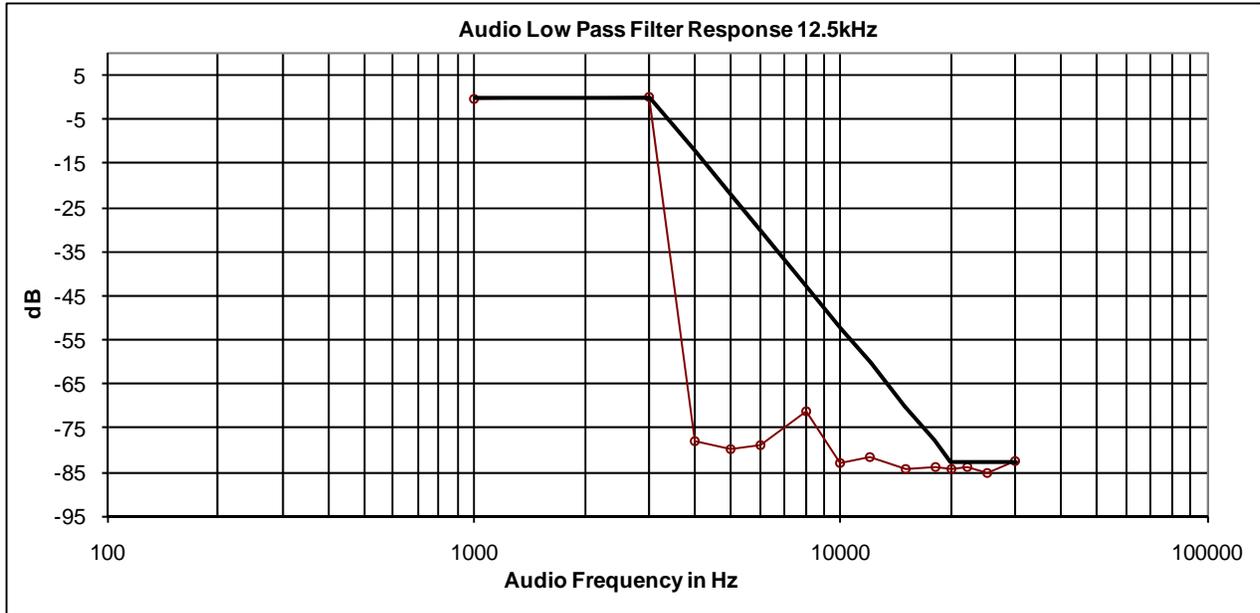


Exhibit 6C-1

Transmit Low Pass Filter Frequency Response

(Freq: 485.075MHz, ChSp: 12.5kHz)

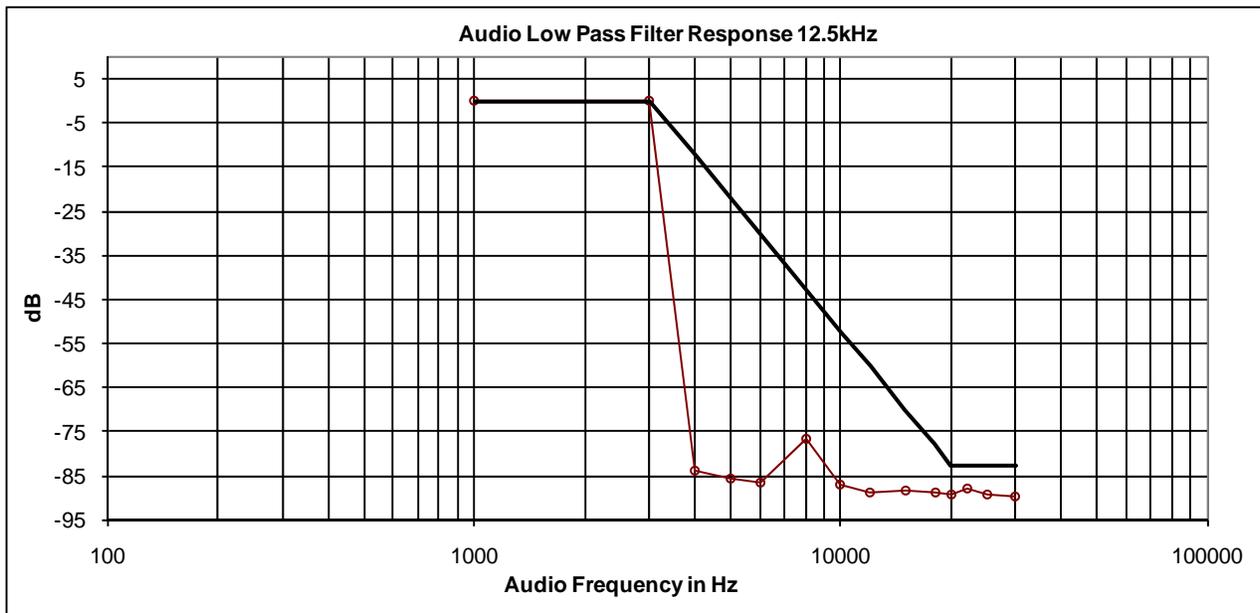


Exhibit 6C-2

EXHIBIT 6D

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

**Modulation Limiting** (Freq: 425.025MHz, ChSp: 12.5kHz)

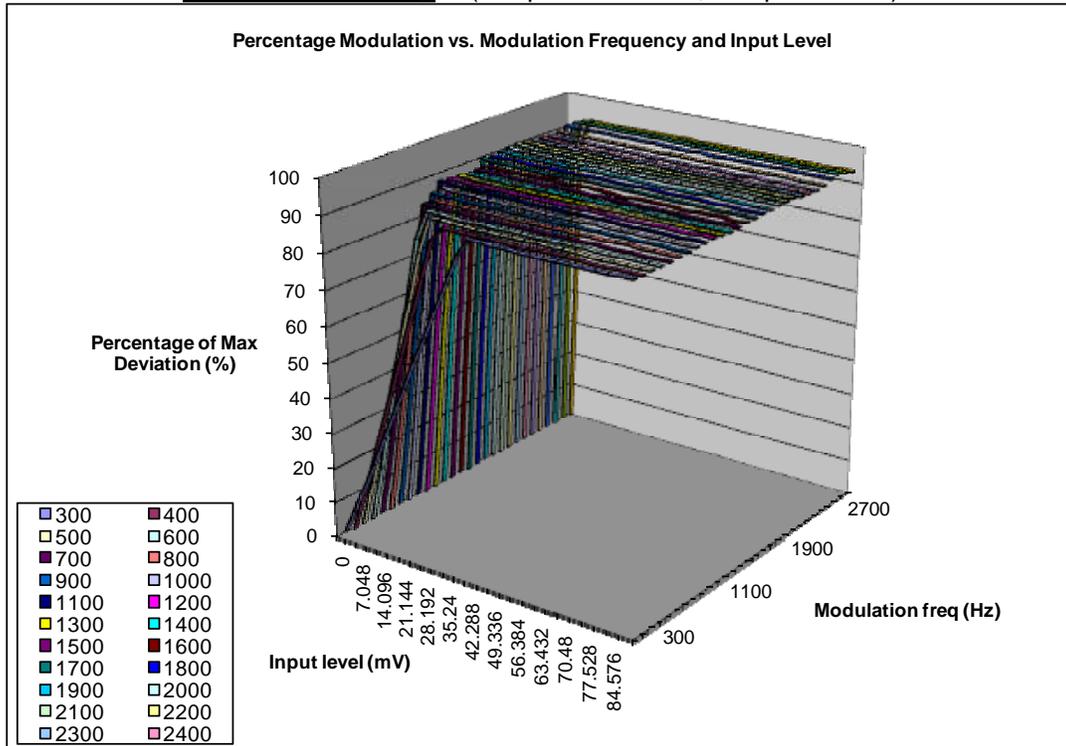


Exhibit 6D-1

**Modulation Limiting** (Freq: 485.025MHz, ChSp: 12.5kHz)

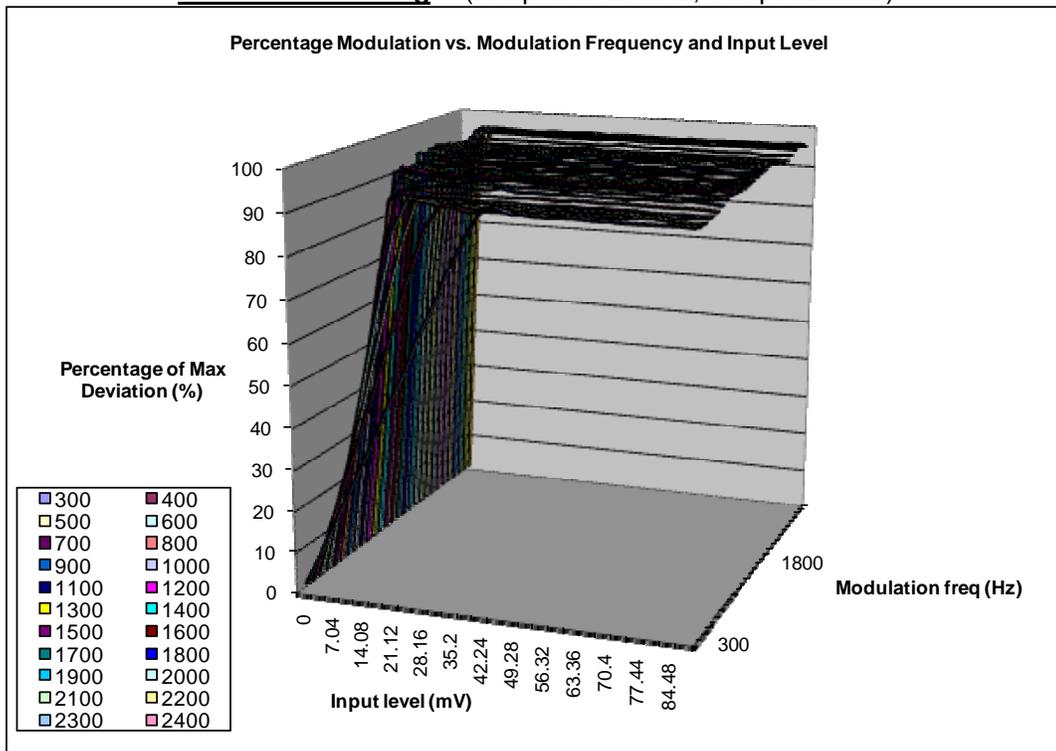


Exhibit 6D-2

**BANDWIDTH CALCULATIONS:**

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

Shown below are the calculations required for FCC ID: AZ489FT7036.

**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.

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

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

**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-5**

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-7**

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

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

**Occupied Bandwidth** (Analog Voice: 11K0F3E)  
Frequency = 425.025 MHz Channel Spacing = 12.5 kHz

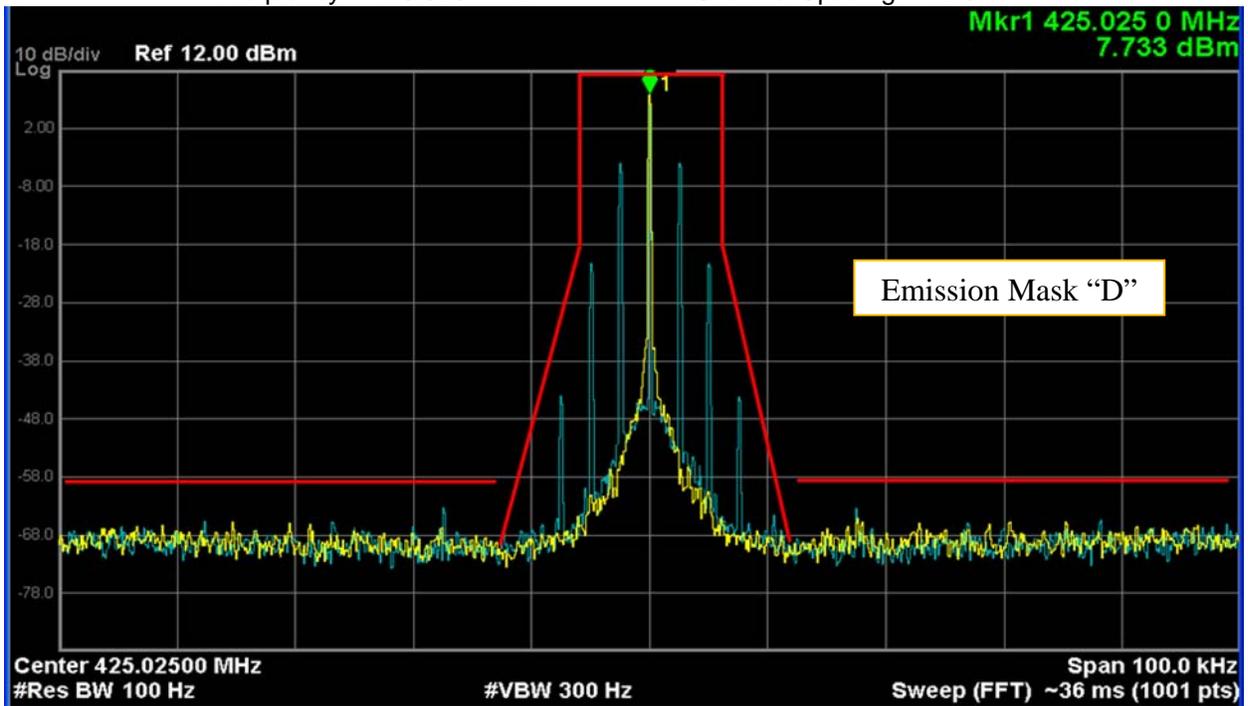


Exhibit 6E-1

**Occupied Bandwidth** (Analog Voice: 11K0F3E)  
Frequency = 485.025 MHz Channel Spacing = 12.5 kHz

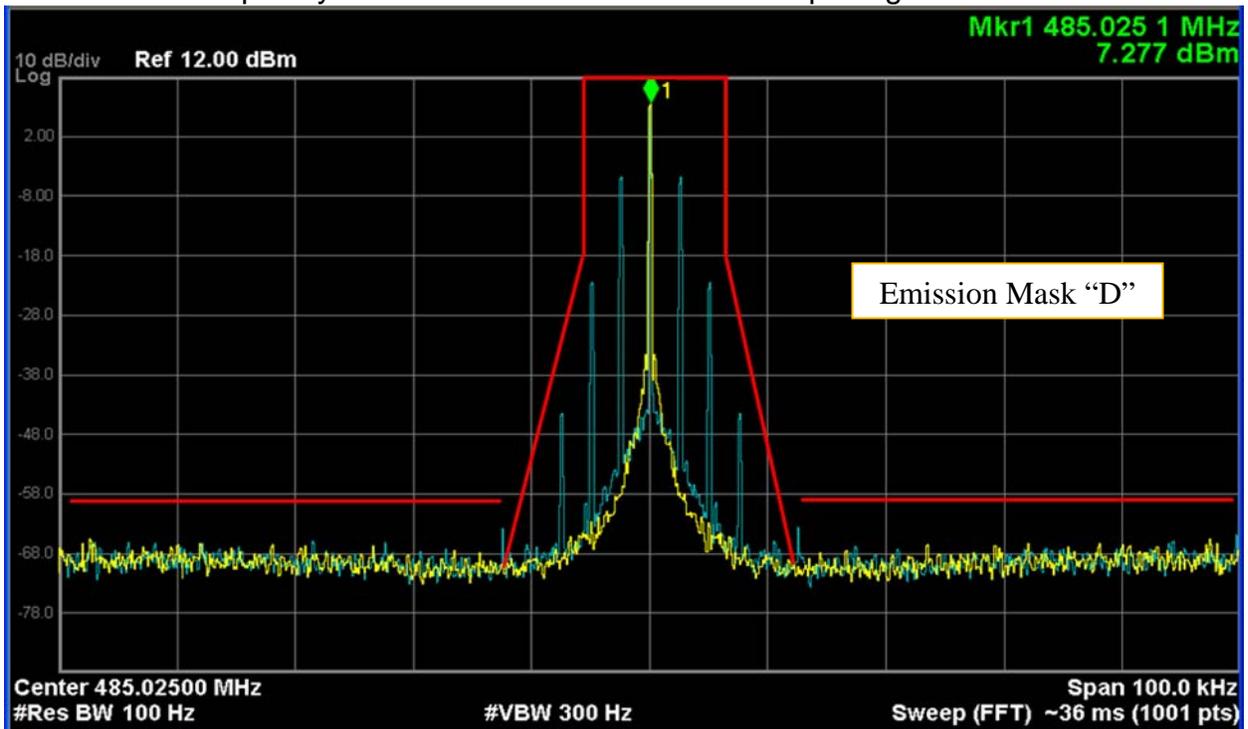


Exhibit 6E-2

**Occupied Bandwidth** (Digital Data: 8K10F1D)  
Frequency = 425.025 MHz Channel Spacing = 12.5 kHz

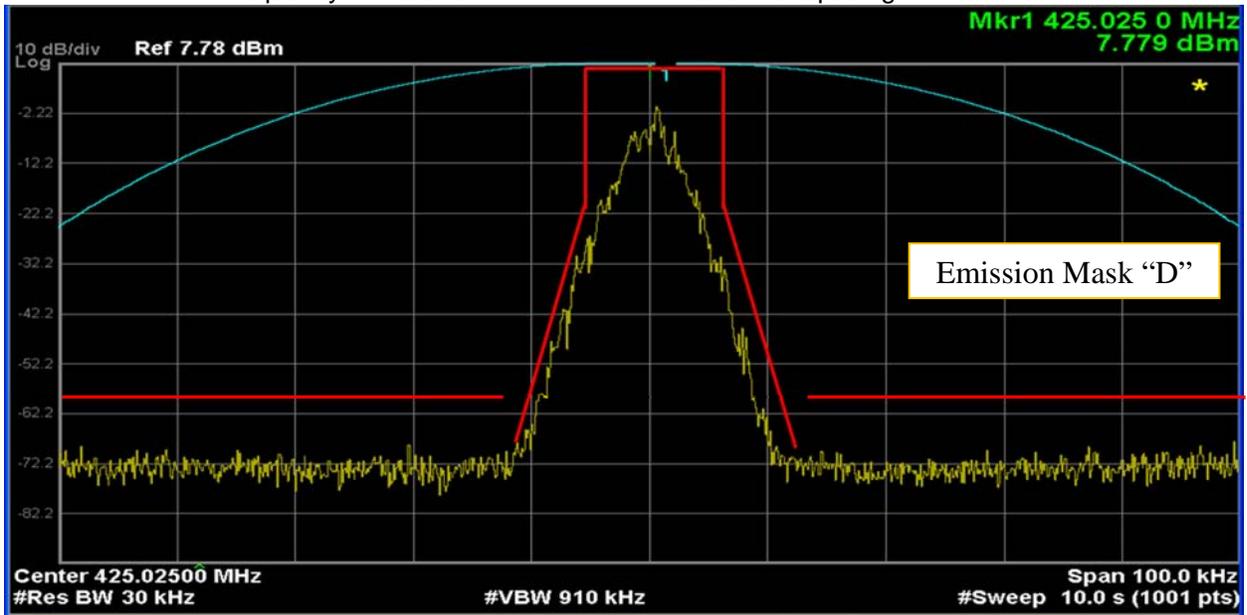


Exhibit 6E-3

**Occupied Bandwidth** (Digital Data: 8K10F1D)  
Frequency = 485.025 MHz Channel Spacing = 12.5 kHz

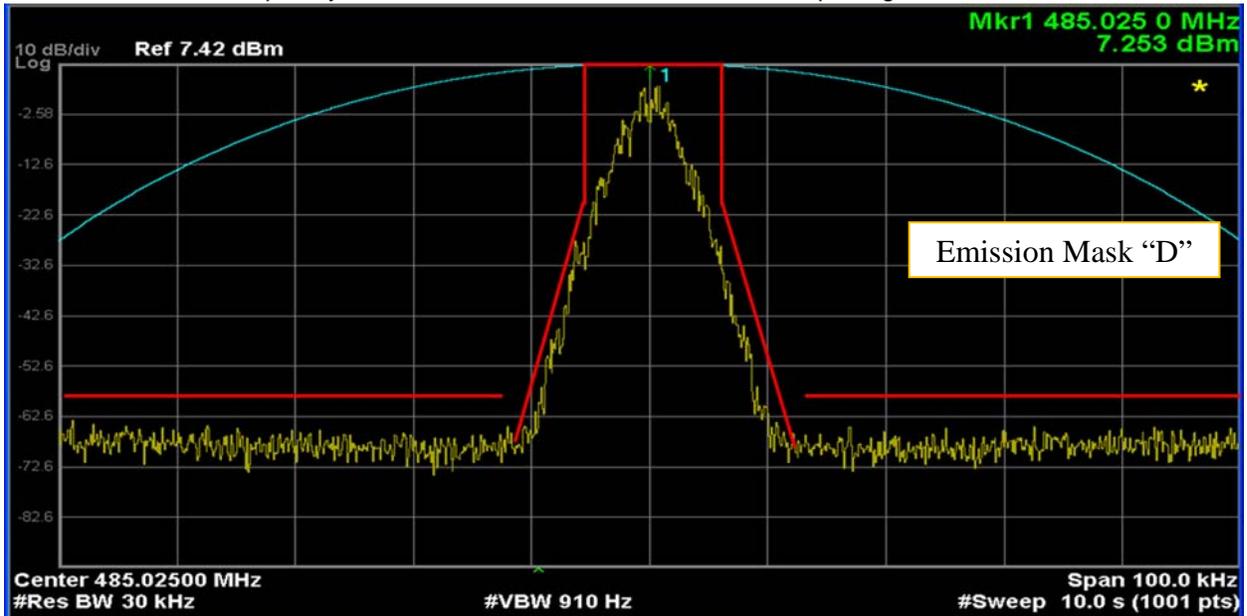


Exhibit 6E-4

**Occupied Bandwidth** (Digital Voice: 8K10F1E)  
Frequency = 425.025 MHz Channel Spacing = 12.5 kHz

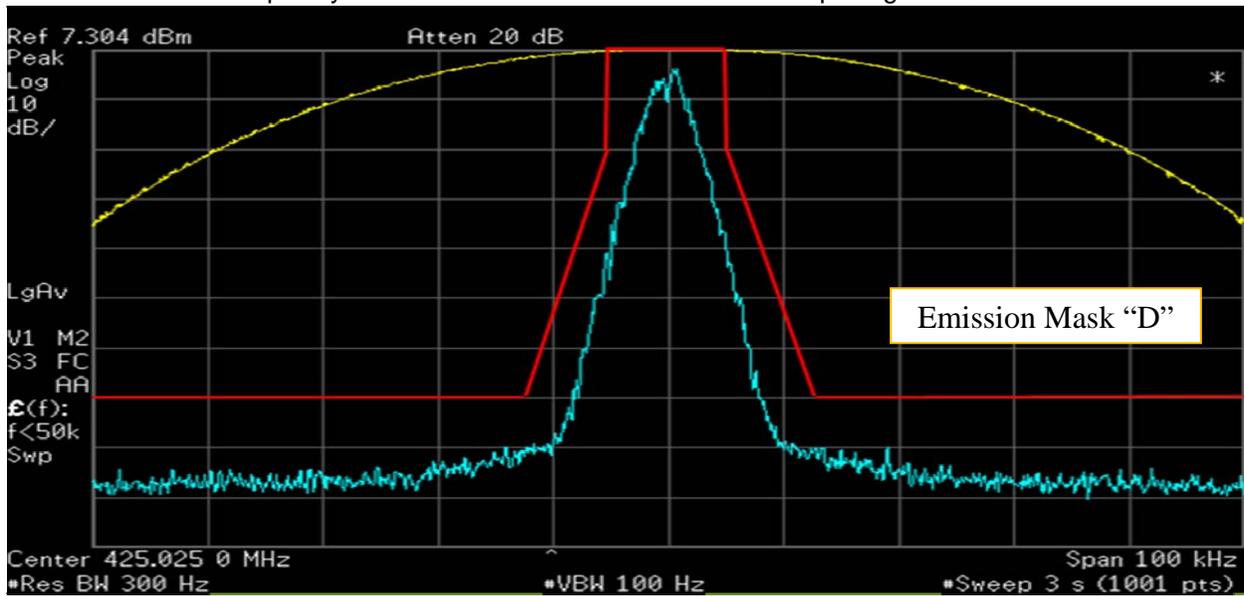


Exhibit 6E-5

**Occupied Bandwidth** (Digital Voice: 8K10F1E)  
Frequency = 485.025 MHz Channel Spacing = 12.5 kHz

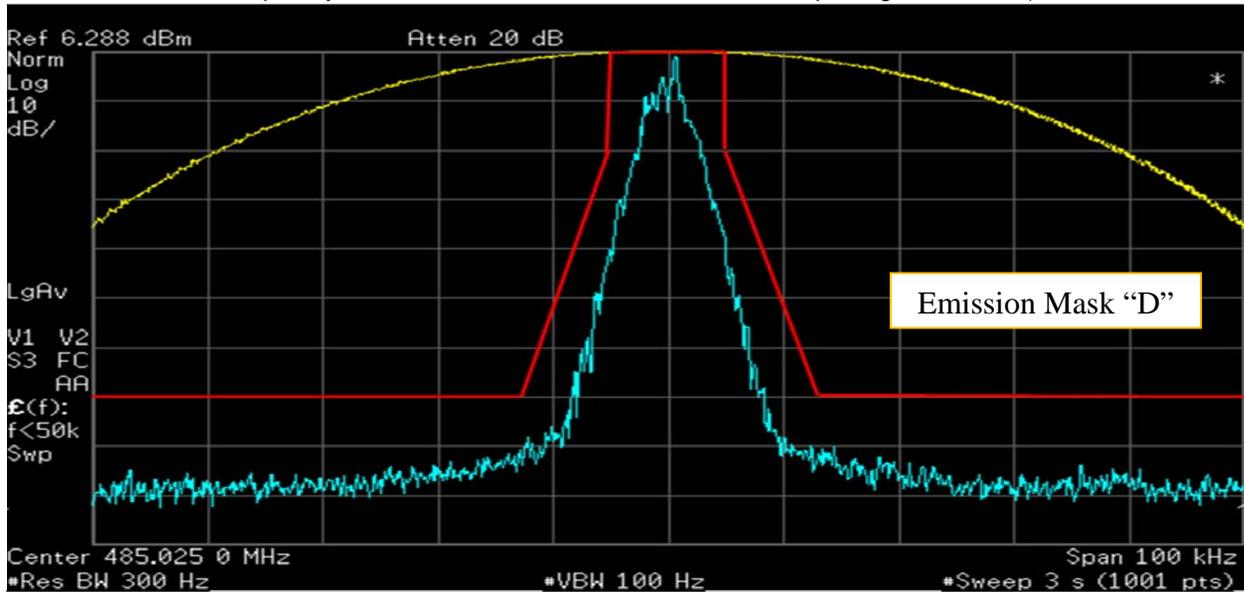


Exhibit 6E-6

**Occupied Bandwidth** (Digital TDMA: 8K10F1W)  
Frequency = 425.025 MHz Channel Spacing = 12.5 kHz

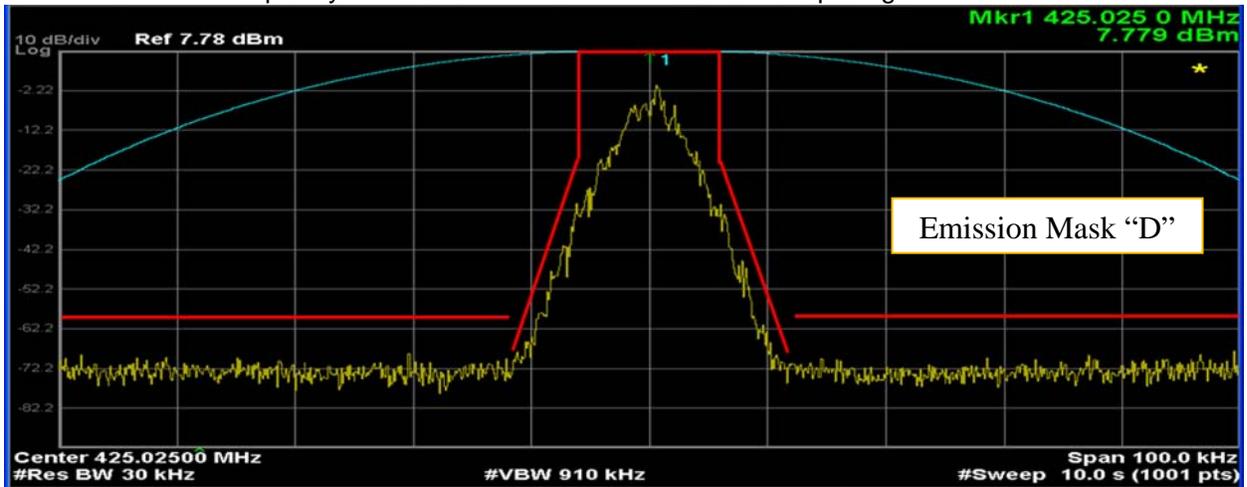


Exhibit 6E-7

**Occupied Bandwidth** (Digital TDMA: 8K10F1W)  
Frequency = 485.025 MHz Channel Spacing = 12.5 kHz

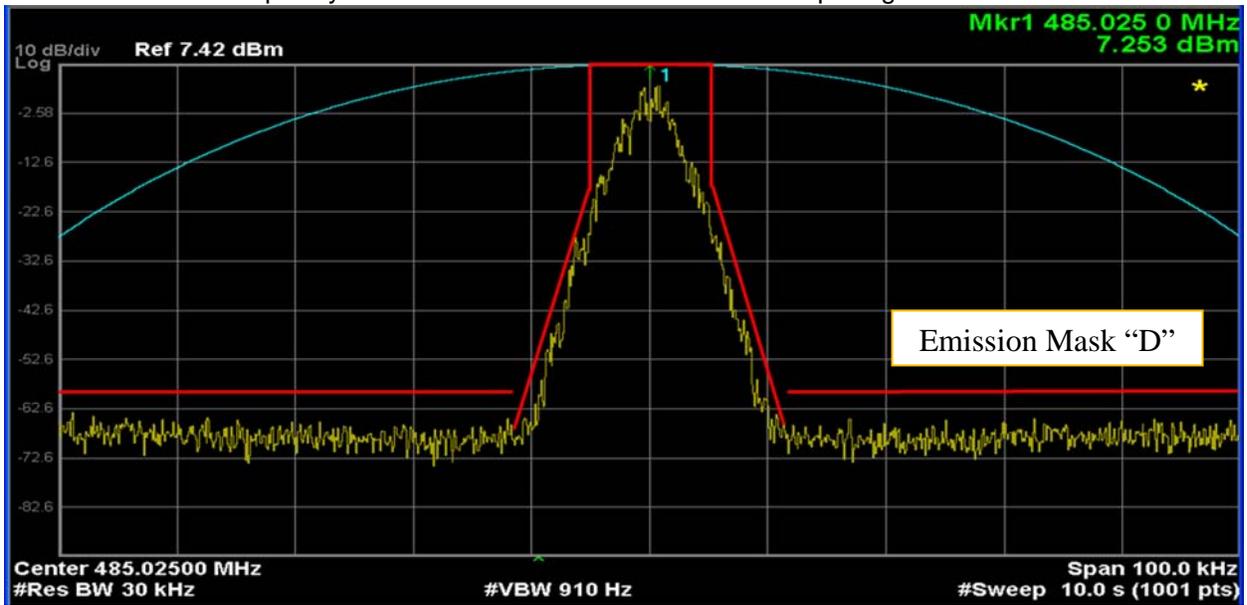


Exhibit 6E-8

EXHIBIT 6F

Transmitter Radiated Spurious Emissions - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)

Motorola Solutions

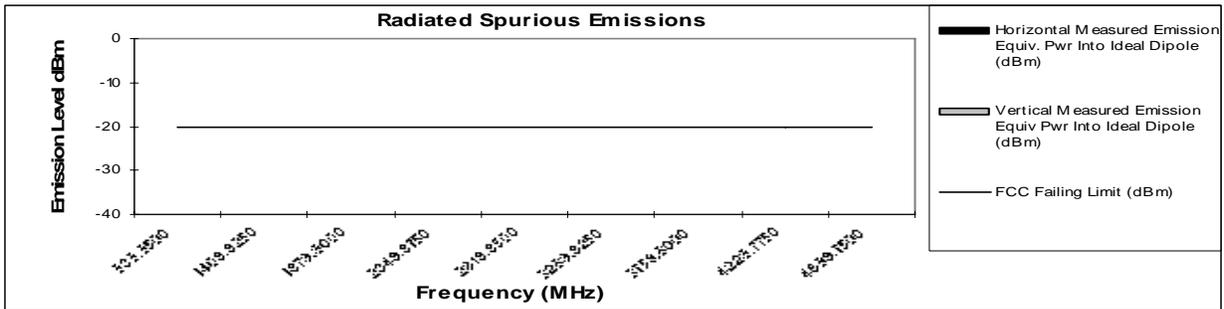
FCC ID:AZ489FT4906

Transmit Radiated Spurious Emissions: **APX7000 ANALOG**  
Tx Power: 5.7 Watts

469.975 MHz

Channel Spacing 12.5kHz | S/N Q0SOS06B

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
939.9500	-20	*	*
1409.9250	-20	*	*
1879.9000	-20	*	*
2349.8750	-20	*	*
2819.8500	-20	*	*
3289.8250	-20	*	*
3759.8000	-20	*	*
4229.7750	-20	*	*
4699.7500	-20	*	*



\* Indicates the spurious emission could not be detected due to noise limitations or ambients.

Pursuant to CFR 47 Part 2.1057(c), emissions attenuated more than 20 dB below the permissible limit are not reported.

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

Motorola Plantation EMC Lab – Test Performed by: Alberto Cordero

June 10, 2011

FCC Registration: 91932 / Industry Canada: IC109U-1

Exhibit 6F-1

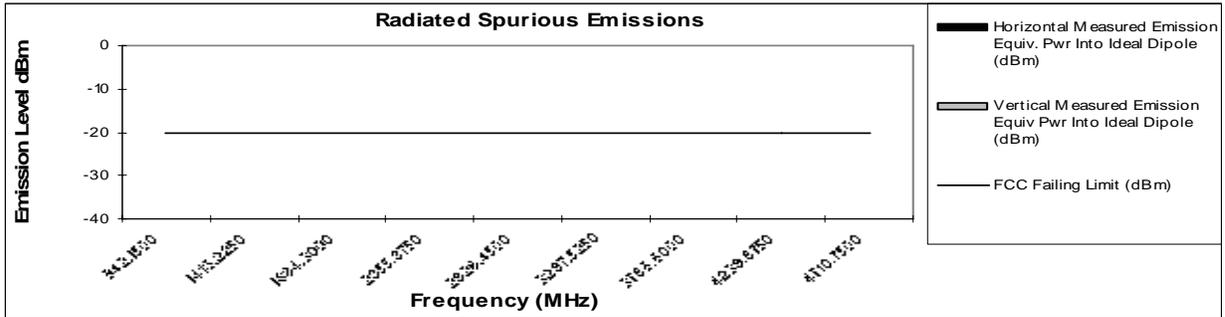
Motorola Solutions

FCC ID:AZ489FT4906

Transmit Radiated Spurious Emissions: APX7000 Analog  
Tx Power: 5.6 Watts

471.075 MHz Channel Spacing 12.5kHz | S/N Q0SOS06F

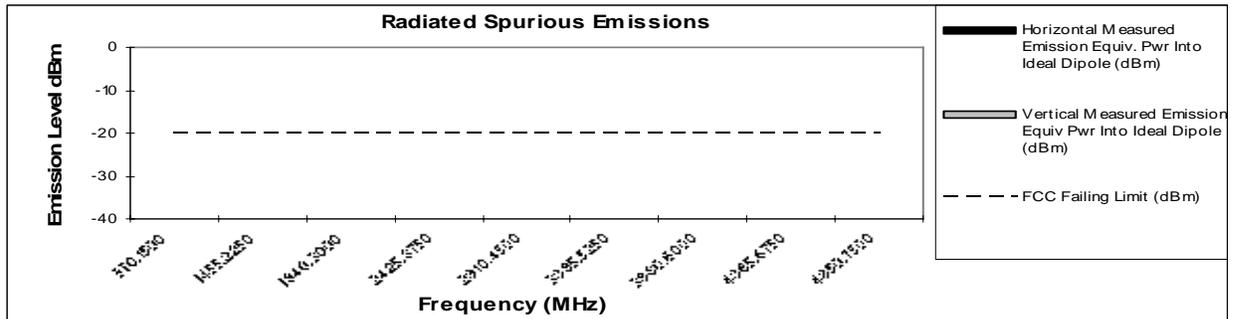
Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
942.1500	-20	*	*
1413.2250	-20	*	*
1884.3000	-20	*	*
2355.3750	-20	*	*
2826.4500	-20	*	*
3297.5250	-20	*	*
3768.6000	-20	*	*
4239.6750	-20	*	*
4710.7500	-20	*	*



Transmit Radiated Spurious Emissions: APX7000 Analog  
Tx Power: 5.6 Watts

485.075 MHz Channel Spacing 12.5kHz | S/N Q0SOS06F

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
970.1500	-20	*	*
1455.2250	-20	*	*
1940.3000	-20	*	*
2425.3750	-20	*	*
2910.4500	-20	*	*
3395.5250	-20	*	*
3880.6000	-20	*	*
4365.6750	-20	*	*
4850.7500	-20	*	*



\* Indicates the spurious emission could not be detected due to noise limitations or ambients.

Pursuant to CFR 47 Part 2.1057(c), emissions attenuated more than 20 dB below the permissible limit are not reported.

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

Motorola Plantation EMC Lab – Test Performed by: Alberto Cordero

June 7, 2011

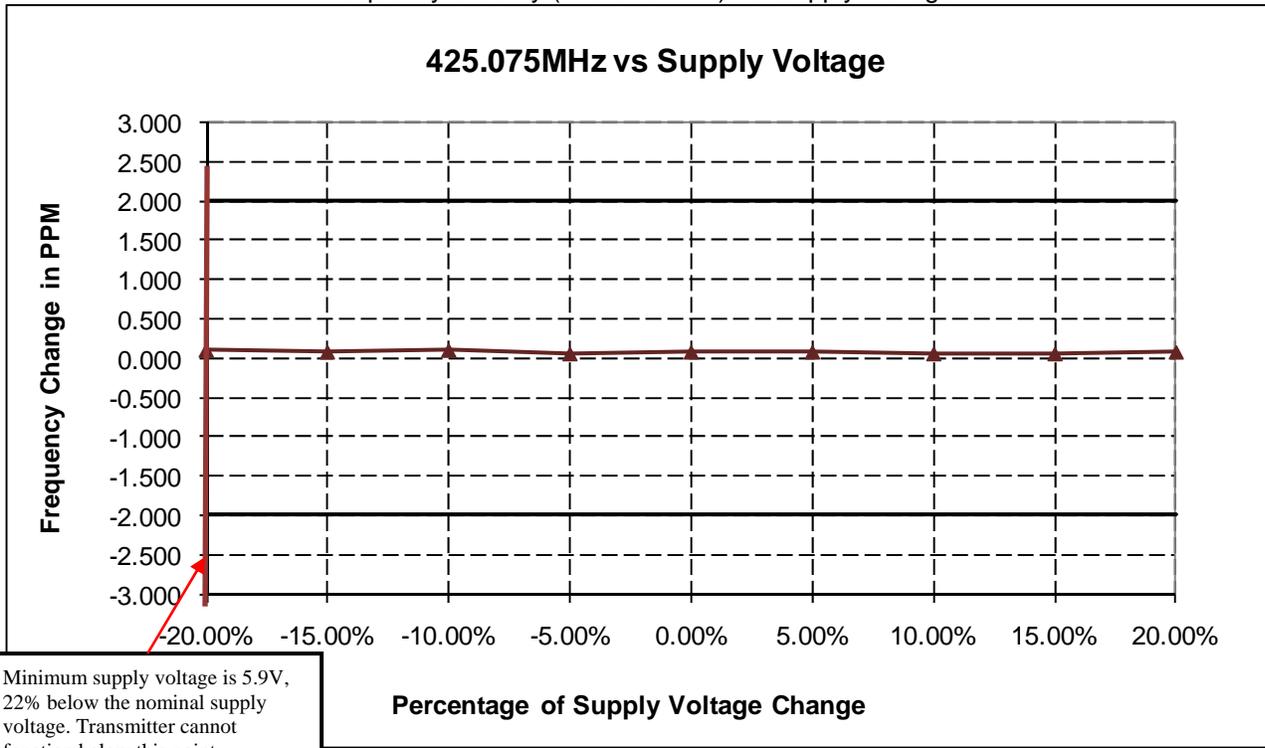
FCC Registration: 91932 / Industry Canada: IC109U-1

Exhibit 6F-2

**EXHIBIT 6G**

**Frequency Stability** - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)

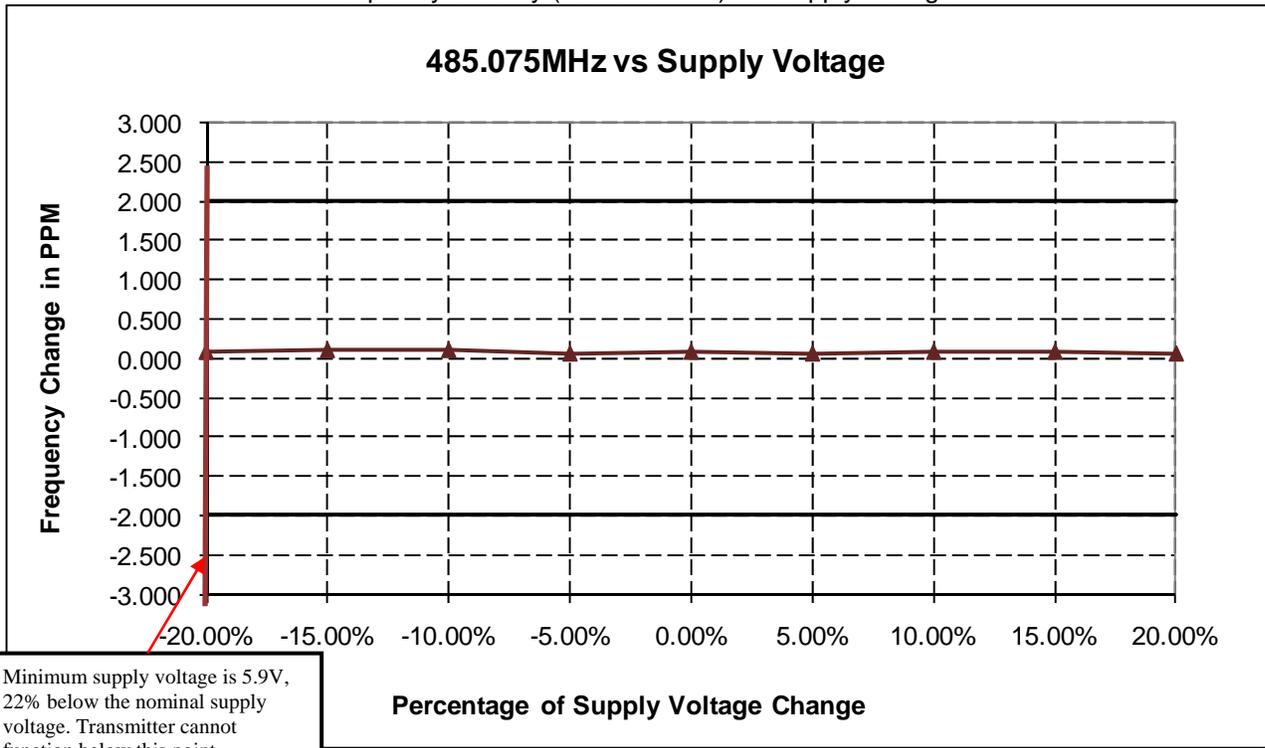
Frequency Stability (425.075 MHz) vs. Supply Voltage



Minimum supply voltage is 5.9V, 22% below the nominal supply voltage. Transmitter cannot function below this point.

Exhibit 6G-1

Frequency Stability (485.075 MHz) vs. Supply Voltage



Minimum supply voltage is 5.9V, 22% below the nominal supply voltage. Transmitter cannot function below this point.

Exhibit 6G-2

Frequency Stability (425.075 MHz) vs. Temperature

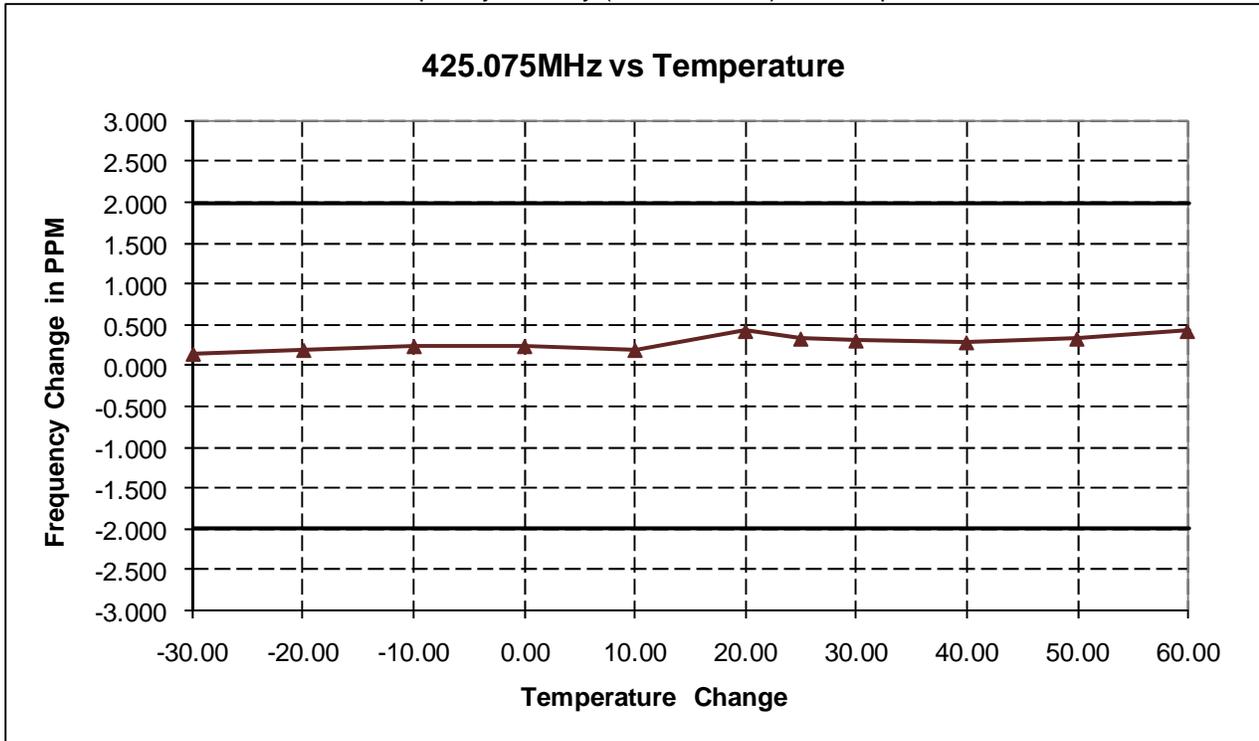


Exhibit 6G-3

Frequency Stability (485.075 MHz) vs. Temperature

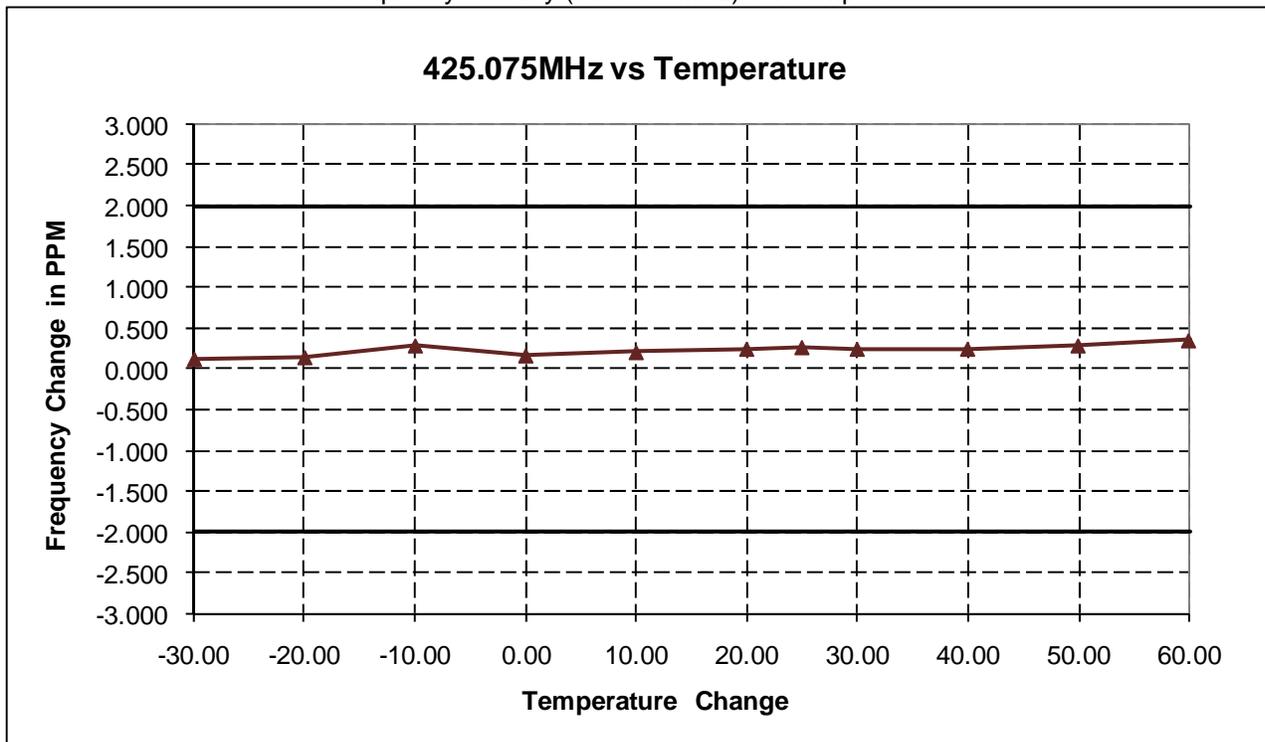


Exhibit 6G-4

**EXHIBIT 6H**

**Transmitter Conducted Spurious Emissions** - Pursuant 47 CFR 2.1047 and 2.1033(c) (13)

Note: Lines on graphs correspond to the FCC limit of -13dBm.

Spurs which are not shown is less than 100dB

425.025 MHz, 12.5 kHz Channel Spacing, 5.7Watts

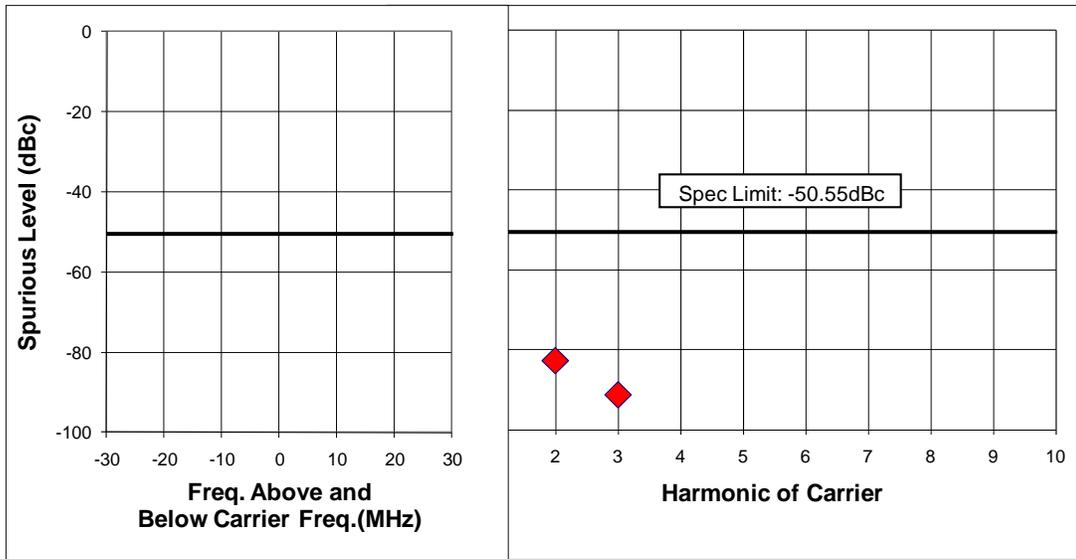


Exhibit 6H-1

469.925 MHz, 12.5 kHz Channel Spacing, 5.7Watts

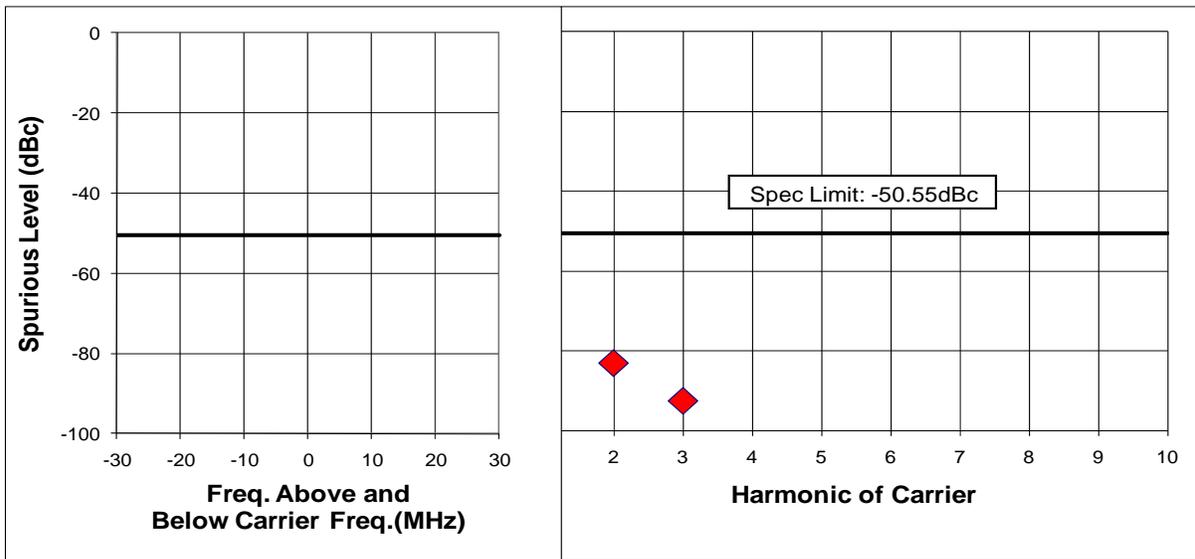


Exhibit 6H-2

471.025 MHz, 12.5 kHz Channel Spacing, 5.6 Watts

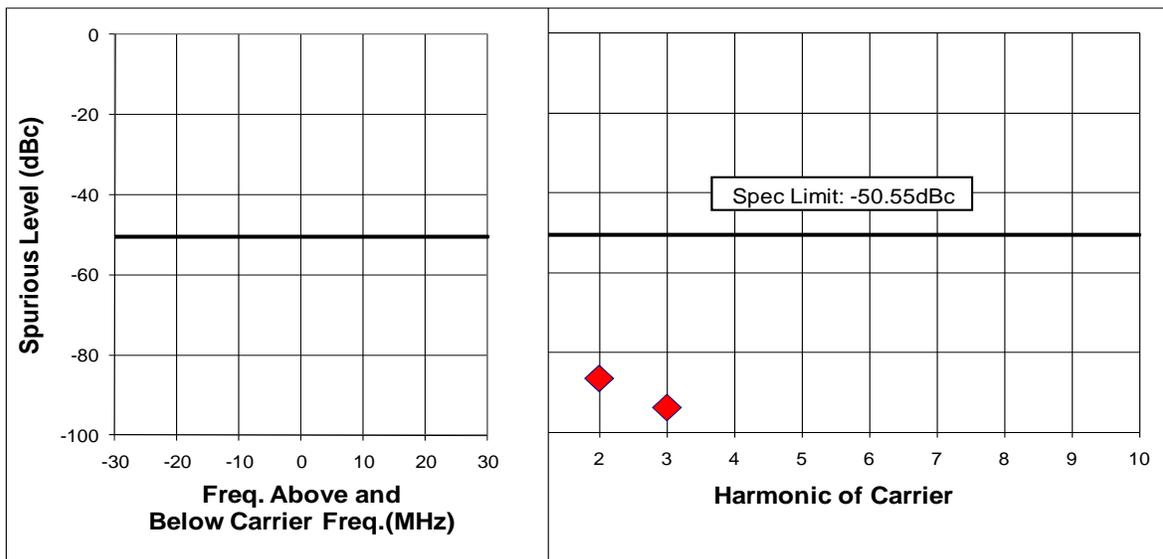


Exhibit 6H-3

485.025 MHz, 12.5 kHz Channel Spacing, 5.6 Watts

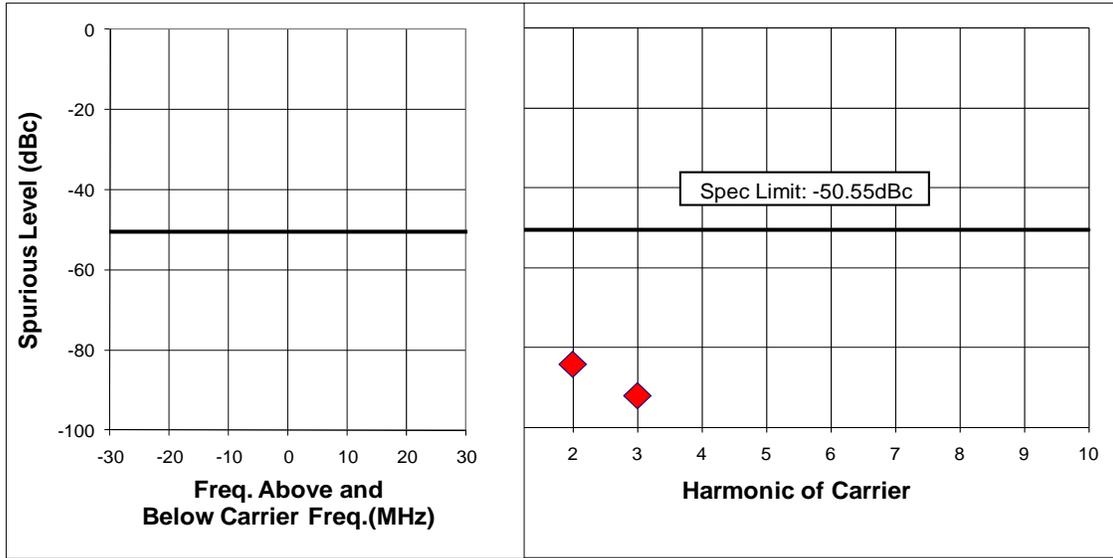


Exhibit 6H-4

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

TX 425.025 MHz – 12.5kHz Channel Spacing – Transmitter On

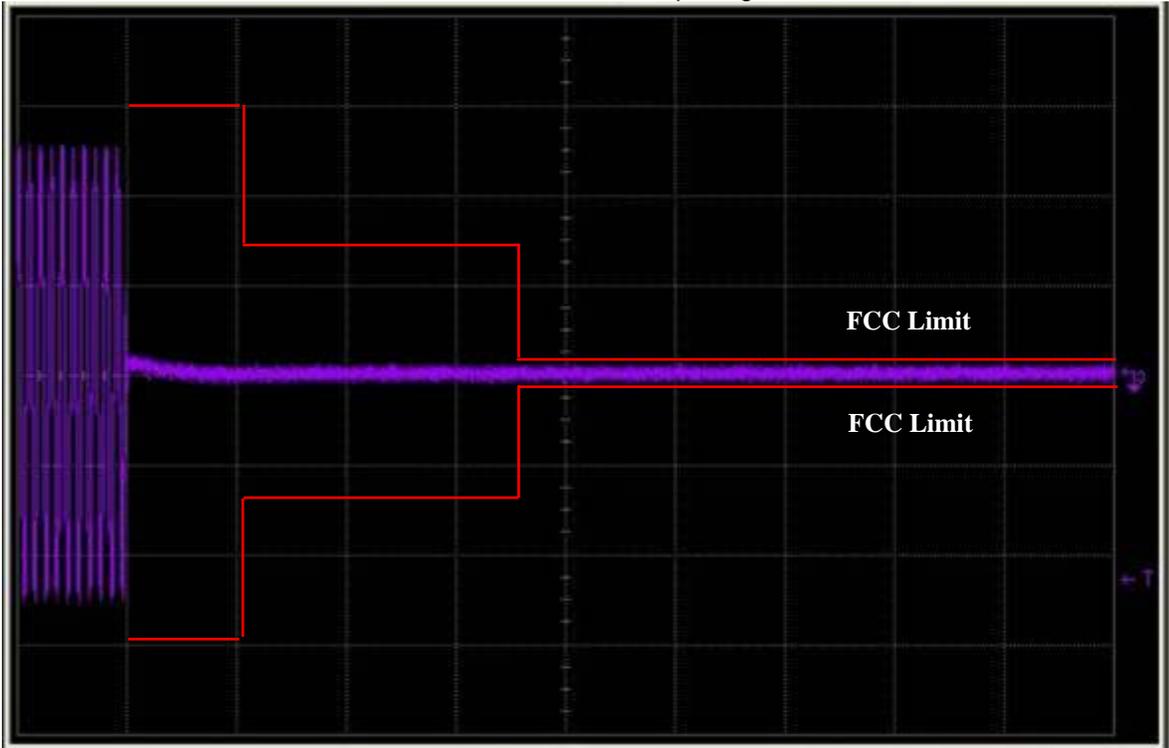


Exhibit 6I-1

TX 425.025 MHz – 12.5kHz Channel Spacing – Transmitter Off

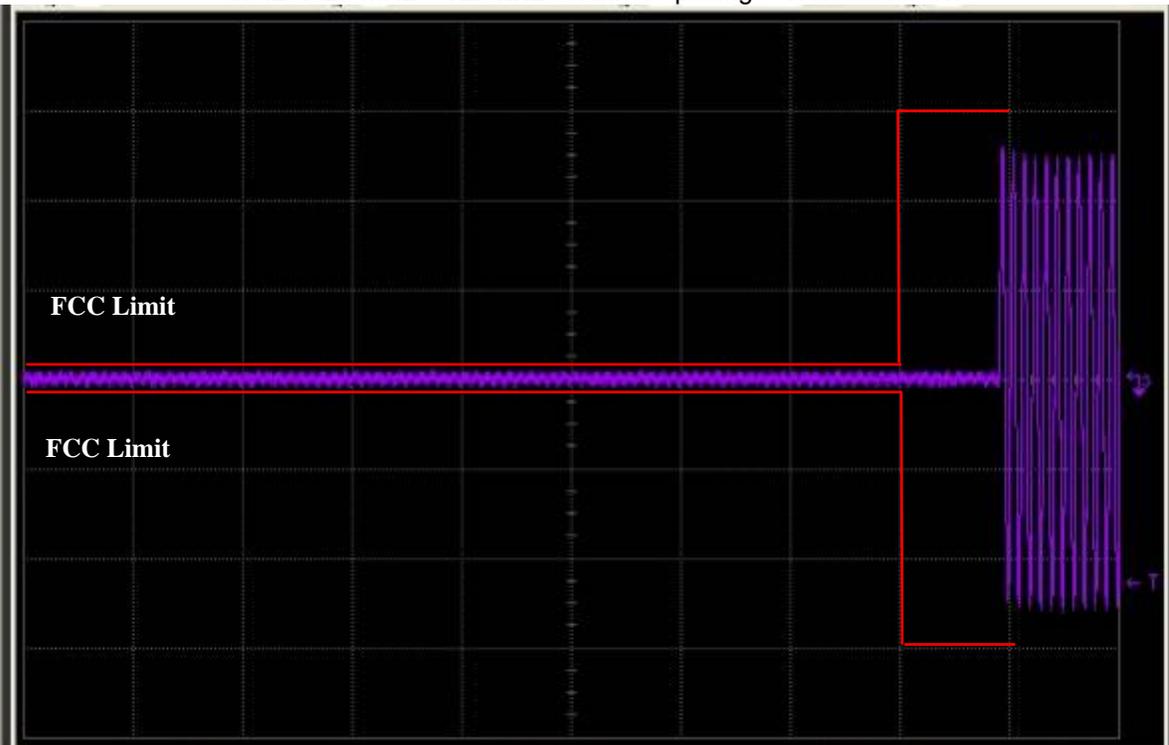


Exhibit 6I-2

TX 485.025 MHz – 12.5 kHz Channel Spacing – Transmitter On

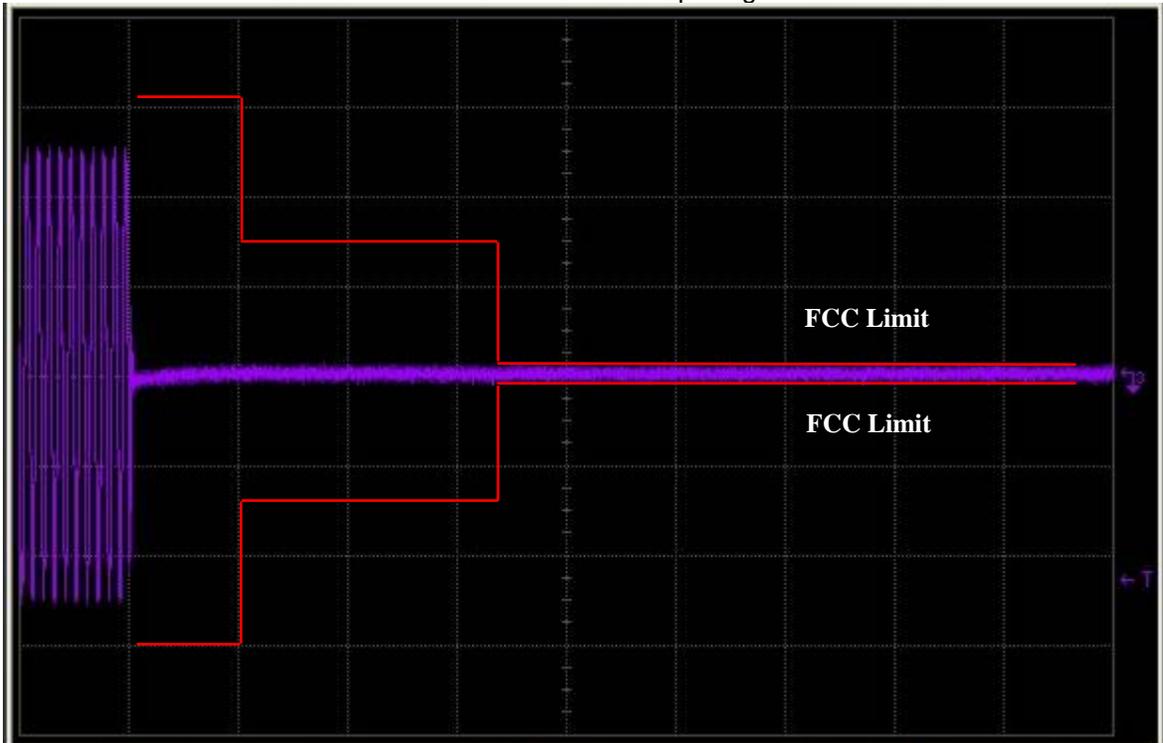


Exhibit 6I-3

TX 485.025 MHz – 12.5 kHz Channel Spacing – Transmitter Off

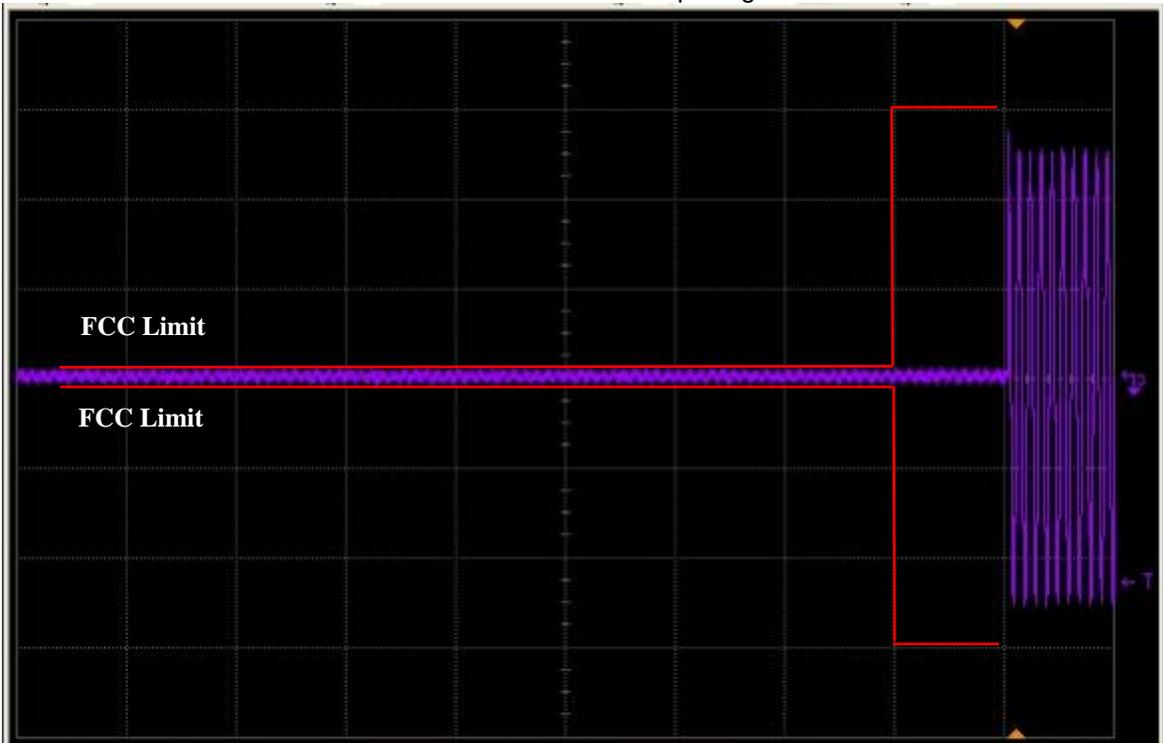


Exhibit 6I-4