

**EXHIBIT 6**

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

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- 6H-1 - Max Power 896.0125 MHz, 12.5 kHz Channel Spacing
- 6H-2 - Max Power 899.0125 MHz, 12.5 kHz Channel Spacing
- 6H-3 - Max Power 901.9875 MHz, 12.5 kHz Channel Spacing (Part 24)
- 6H-4 - Max Power 935.0125 MHz, 12.5 kHz Channel Spacing
- 6H-5 - Max Power 938.0125 MHz, 12.5 kHz Channel Spacing
- 6H-6 - Max Power 940.9875 MHz, 12.5 kHz Channel Spacing (Part 24)

\*\* Please note that the above data were taken following the procedures and limits outlined in TIA 603-D and RSS 119 and 134 during the month of November 2014. See Table 2 in Ex07\_test procedures

Radio model tested: H84WCF9PW6AN

**Important Note: The data in this test report meets or exceeds the technical requirements of FCC Rule Parts 24, 90 and RSS 119 and 134**

**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 = 896.0125 MHz:**

Output RF power	1.0 Watts
DC Voltage	7.50 Volts
DC Current	0.99 Amps
Output RF power	2.50 Watts
DC Voltage	7.50 Volts
DC Current	1.43 Amps
Output RF power	3.0 Watts
DC Voltage	7.50 Volts
DC Current	1.55 Amps

**Frequency = 900.9875 MHz:**

Output RF power	1.0 Watts
DC Voltage	7.50 Volts
DC Current	0.98 Amps
Output RF power	2.50 Watts
DC Voltage	7.50 Volts
DC Current	1.41 Amps
Output RF power	3.0 Watts
DC Voltage	7.50 Volts
DC Current	1.53 Amps

**Frequency = 901.9875 MHz (Part 24) :**

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.95 Amps
Output RF power	2.50 Watts
DC Voltage	7.50 Volts
DC Current	1.37 Amps
Output RF power	3.00 Watts
DC Voltage	7.50 Volts
DC Current	1.50 Amps

**Frequency = 935.0125 MHz:**

Output RF power	1.0 Watts
DC Voltage	7.50 Volts
DC Current	0.92 Amps
Output RF power	2.50 Watts
DC Voltage	7.50 Volts
DC Current	1.34 Amps
Output RF power	3.0 Watts
DC Voltage	7.50 Volts
DC Current	1.46 Amps

**Frequency = 939.9875 MHz:**

Output RF power	1.0 Watts
DC Voltage	7.50 Volts
DC Current	0.92 Amps
Output RF power	2.50 Watts
DC Voltage	7.50 Volts
DC Current	1.32 Amps
Output RF power	3.0 Watts
DC Voltage	7.50 Volts
DC Current	1.45 Amps

**Frequency = 940.9875 MHz (Part 24):**

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.87 Amps
Output RF power	2.50 Watts
DC Voltage	7.50 Volts
DC Current	1.26 Amps
Output RF power	3.00 Watts
DC Voltage	7.50 Volts
DC Current	1.40 Amps

**EXHIBIT 6B**

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

**Audio Frequency Response**  
(Freq: 896.0125MHz, ChSp: 12.5 kHz)

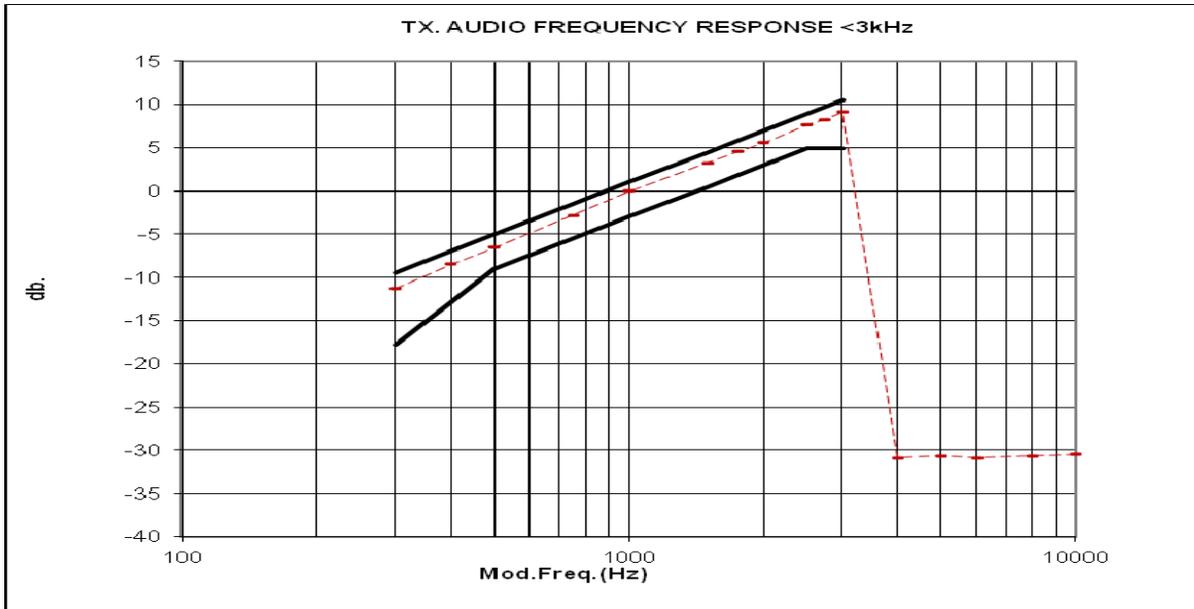


Exhibit 6B-1

**Audio Frequency Response**  
(Freq: 901.9875MHz, ChSp: 12.5kHz) (Part 24)

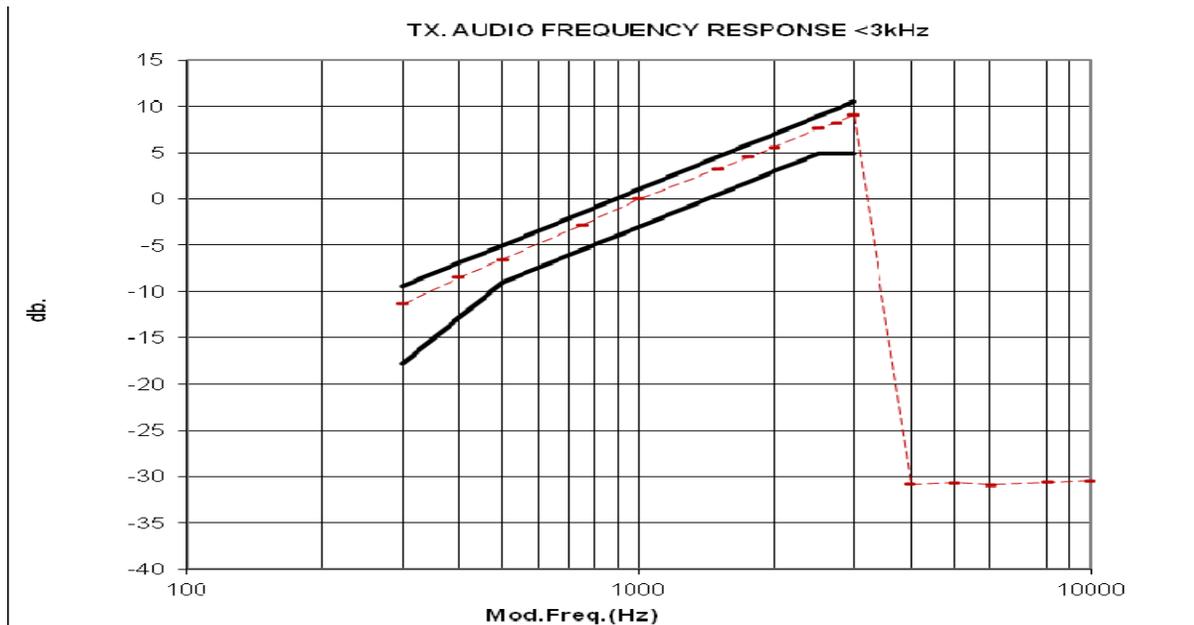


Exhibit 6B-2

**Audio Frequency Response**  
(Freq: 935.0125MHz, ChSp: 12.5 kHz)

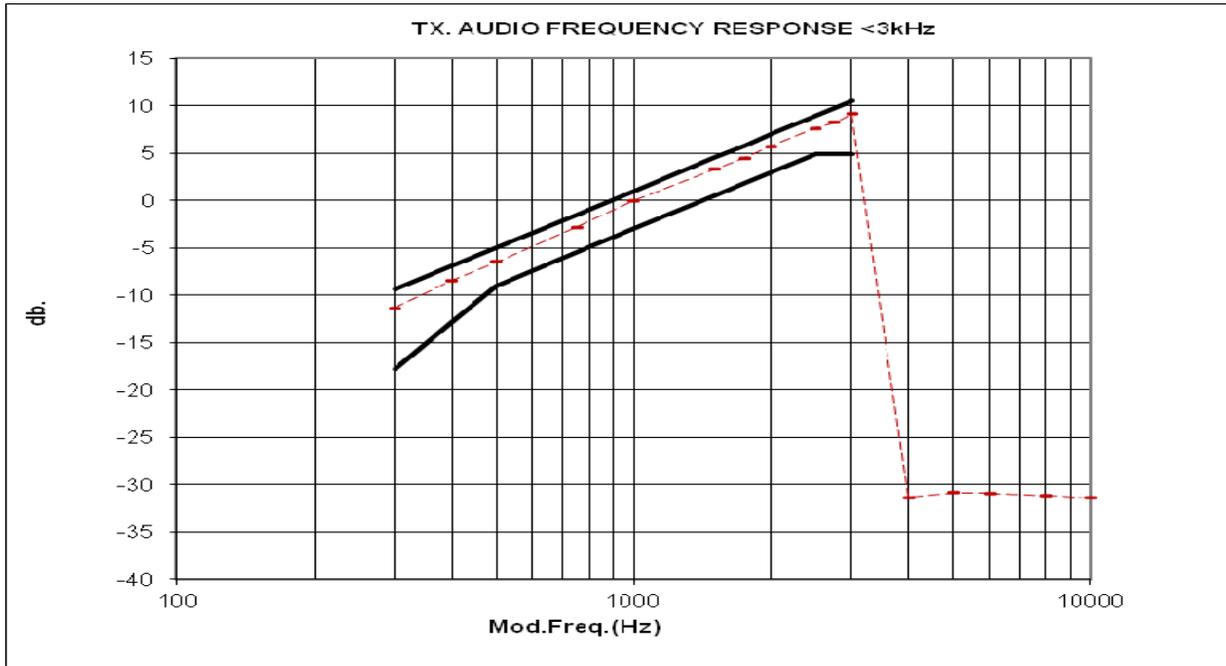


Exhibit 6B-3

**Audio Frequency Response**  
(Freq: 940.9875MHz, ChSp: 12.5kHz) (Part 24)

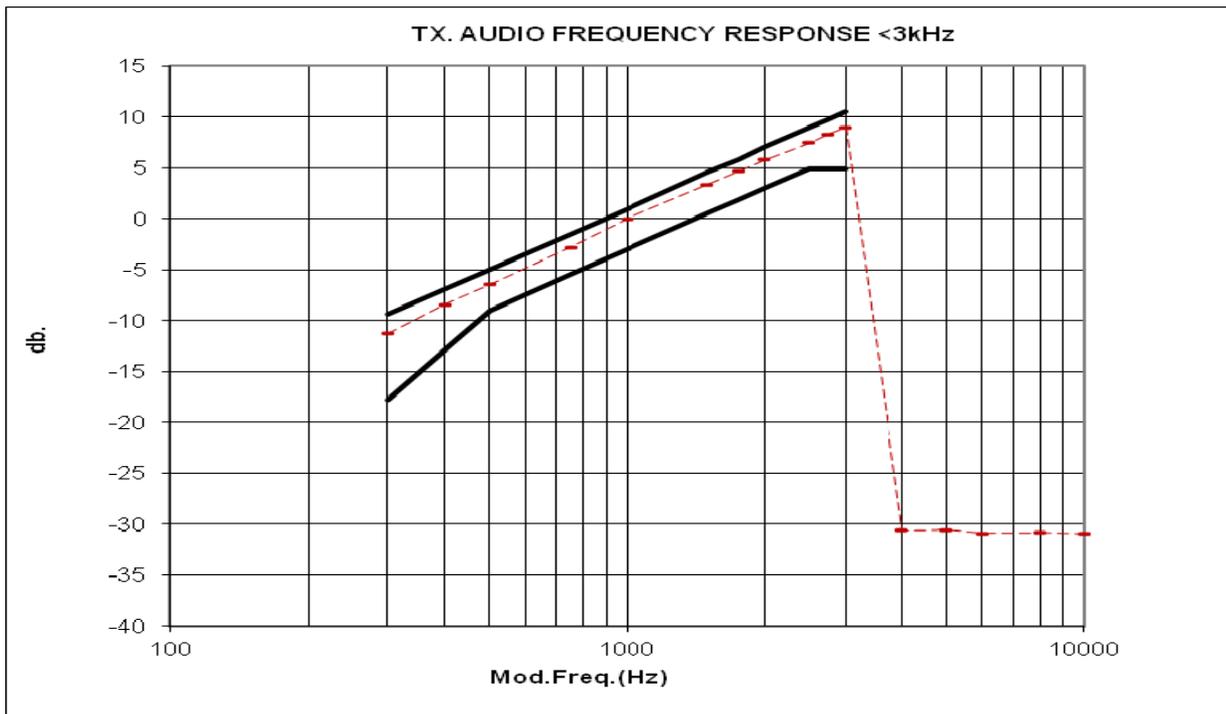


Exhibit 6B-4

**EXHIBIT 6C**

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

**Transmit Low Pass Filter Frequency Response**

(Freq: 896.0125MHz, ChSp: 12.5 kHz)

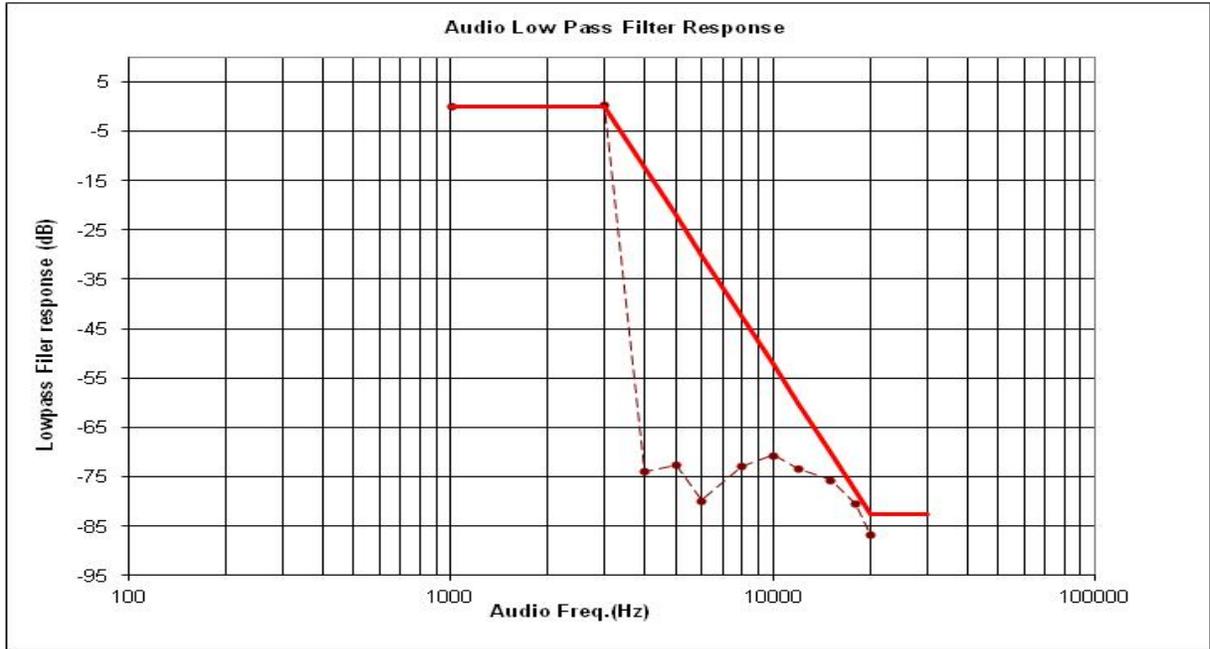


Exhibit 6C-1

**Transmit Low Pass Filter Frequency Response**

(Freq: 901.9875MHz, ChSp: 12.5 kHz) (Part 24)

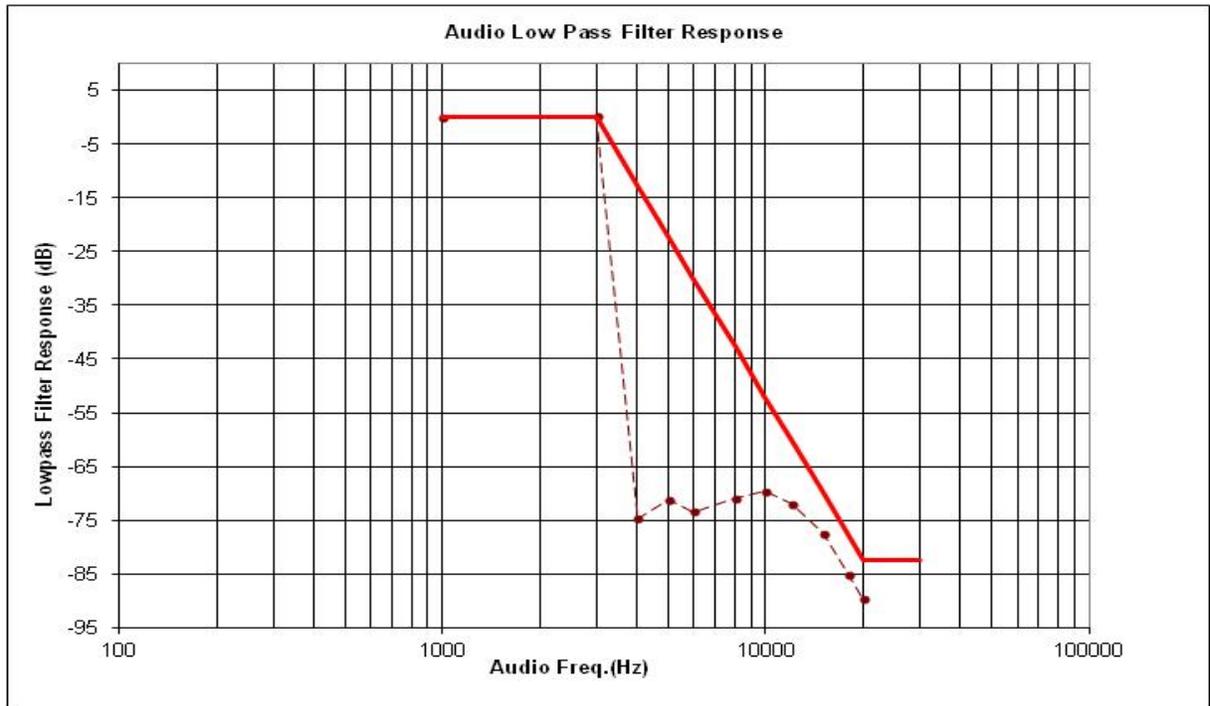


Exhibit 6C-2

**Transmit Low Pass Filter Frequency Response**  
(Freq: 935.0125MHz, ChSp: 12.5 kHz)

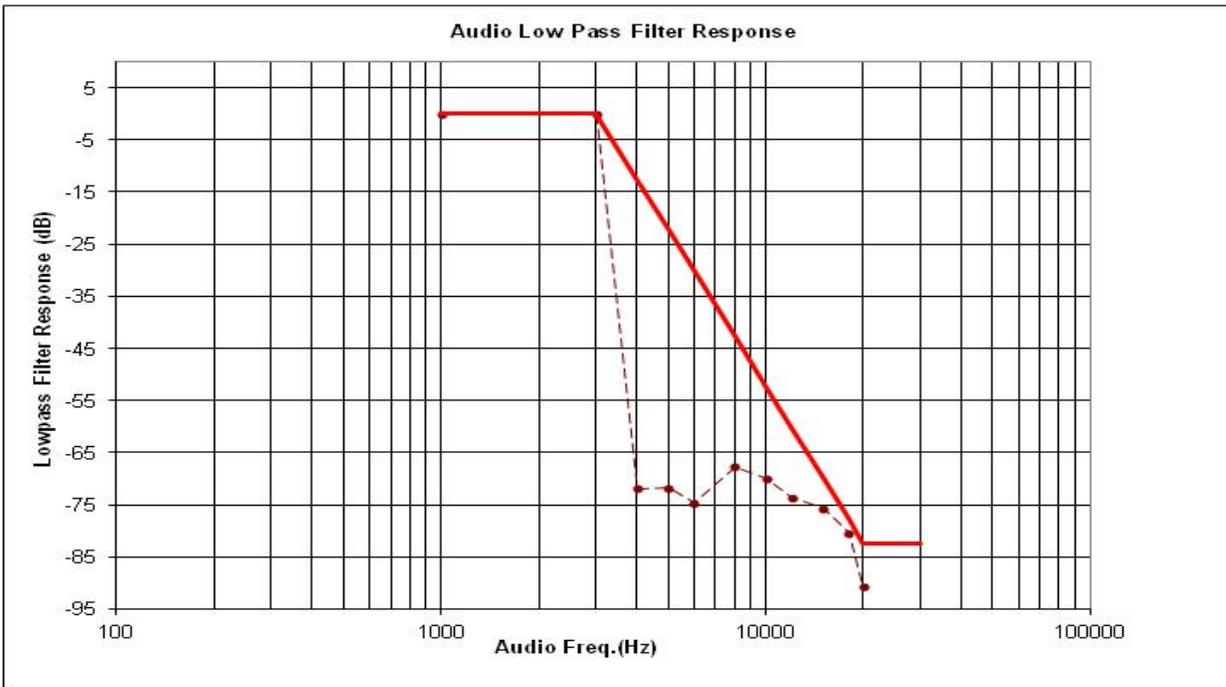


Exhibit 6C-3

**Transmit Low Pass Filter Frequency Response**  
(Freq: 940.9875MHz, ChSp: 12.5 kHz) (Part 24)

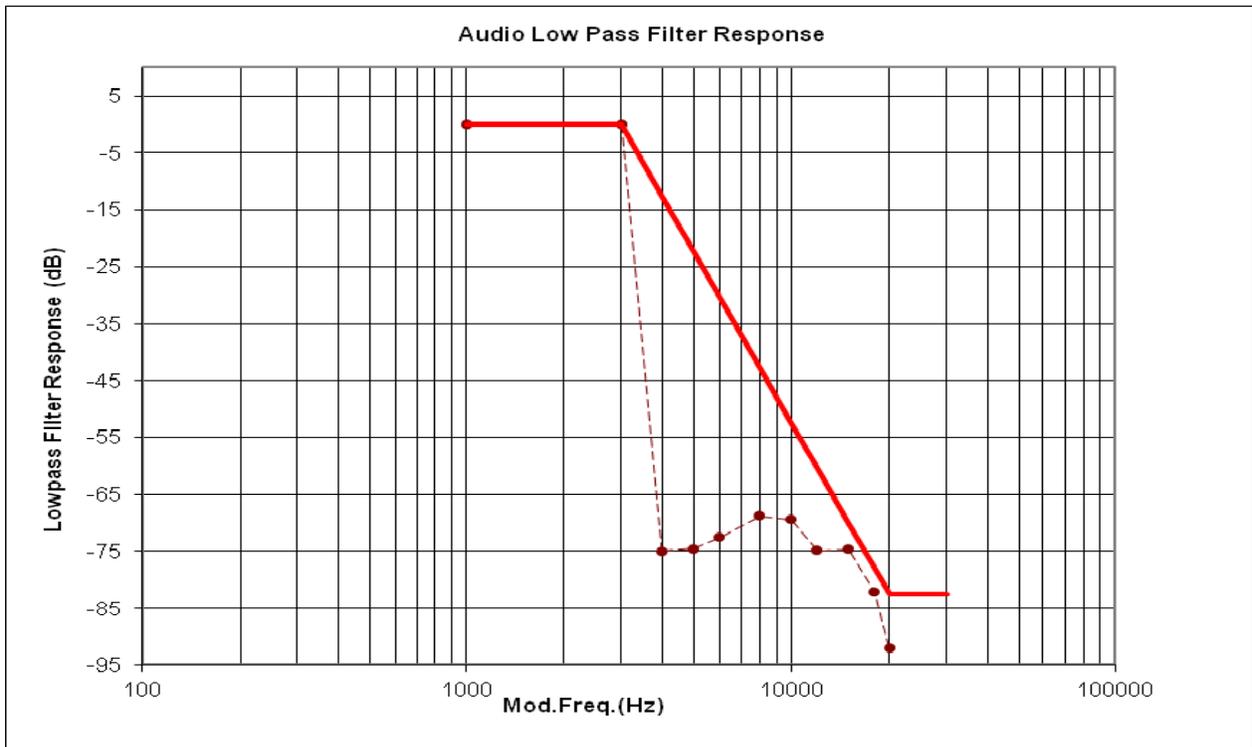


Exhibit 6C-4

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

**Modulation Limiting** (Freq: 899.0125MHz, ChSp: 12.5 kHz)

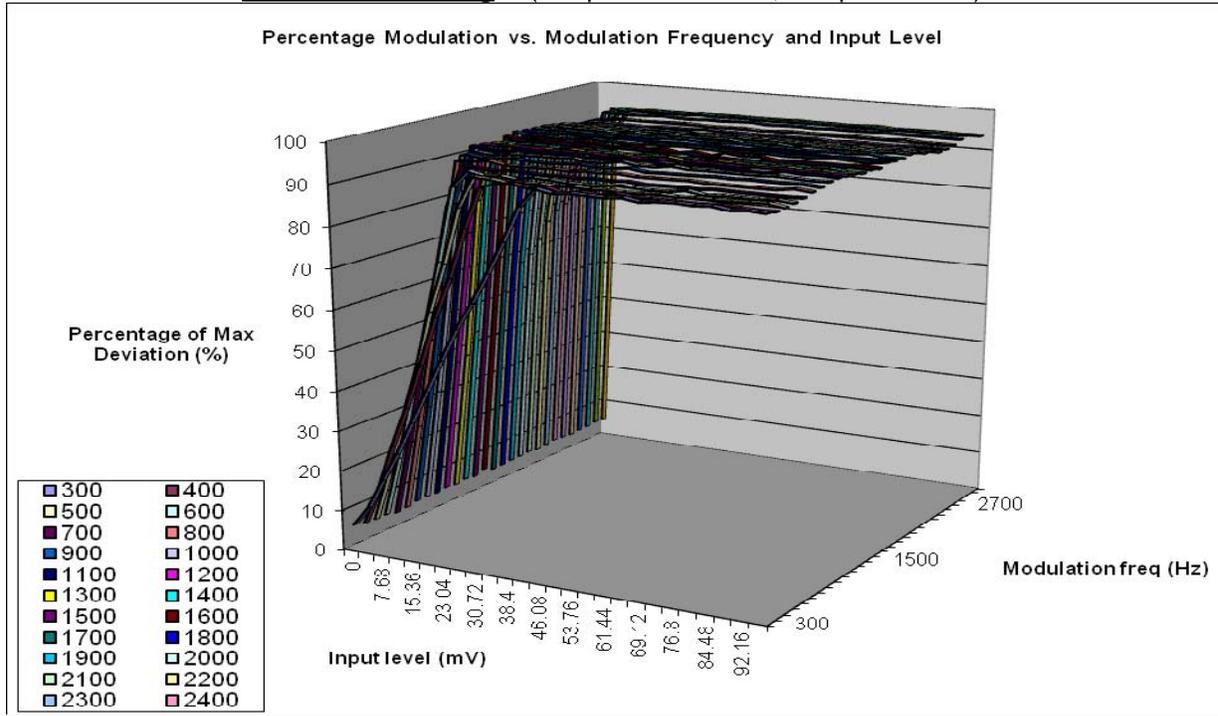


Exhibit 6D-1

**Modulation Limiting** (Freq: 938.0125MHz, ChSp: 12.5 kHz)

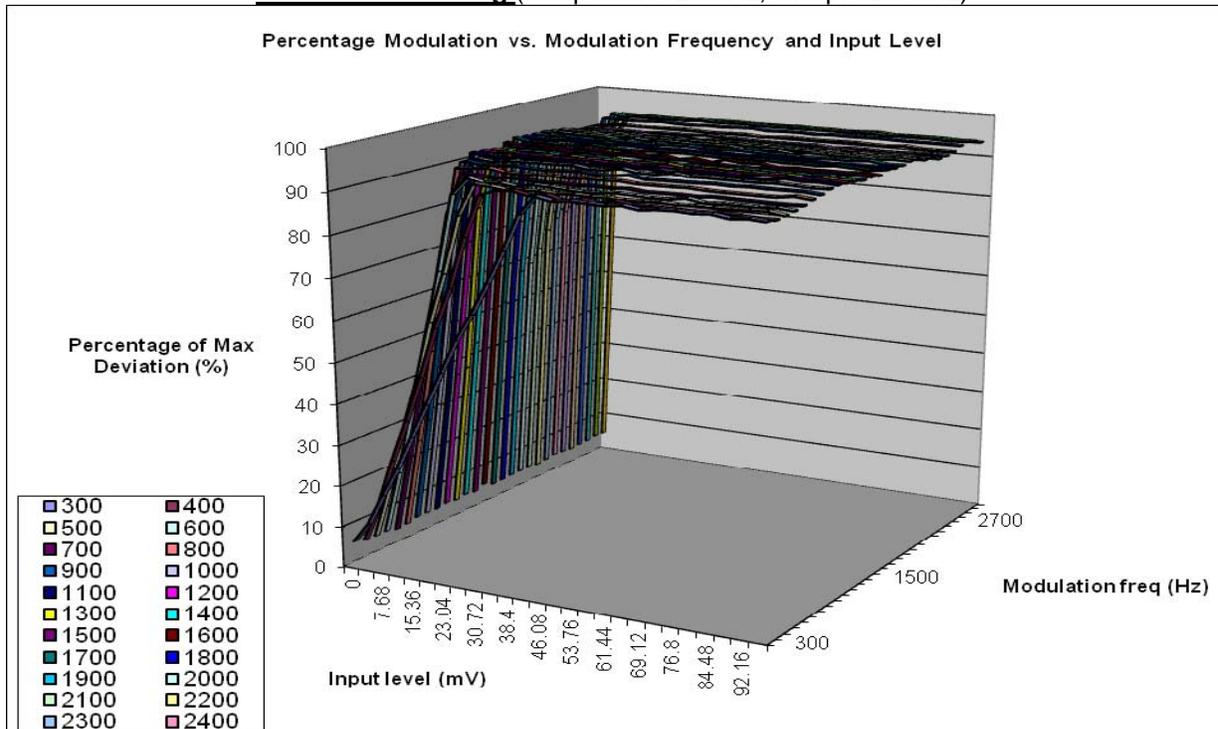


Exhibit 6D-2

**Modulation Limiting** (Freq: 901.9875MHz, ChSp: 12.5 kHz) (Part 24)

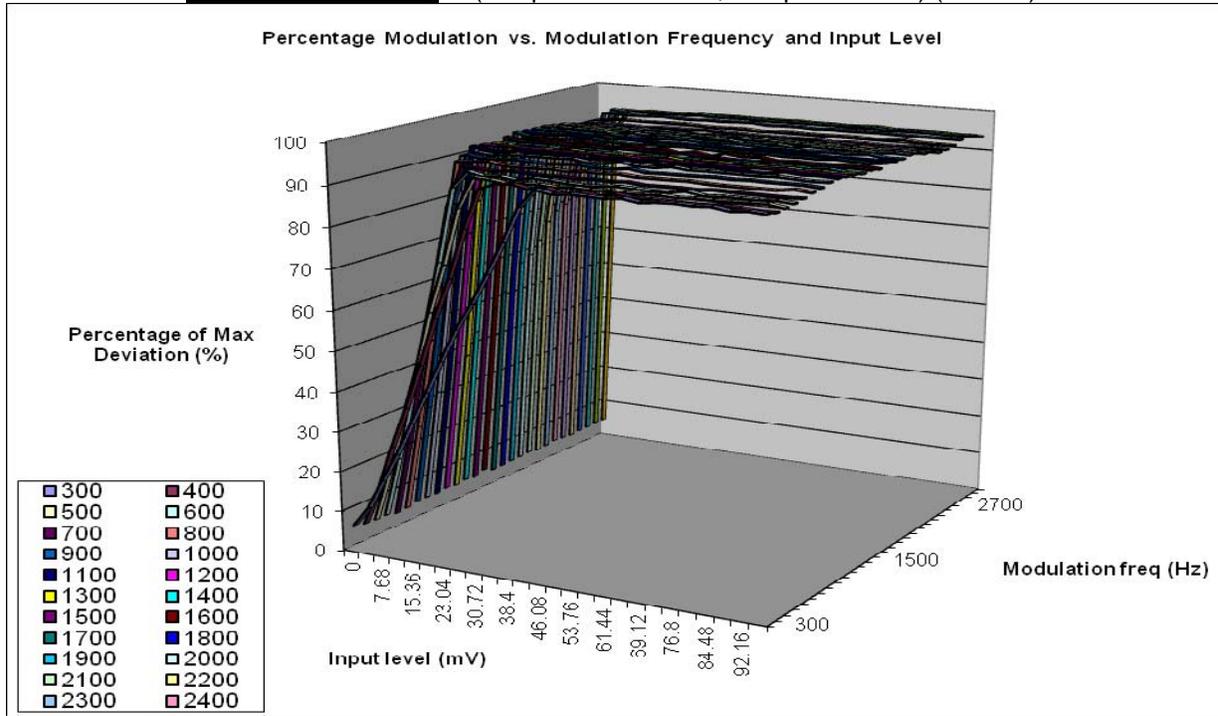


Exhibit 6D-3

**Modulation Limiting** (Freq: 940.9875MHz, ChSp: 12.5 kHz) (Part 24)

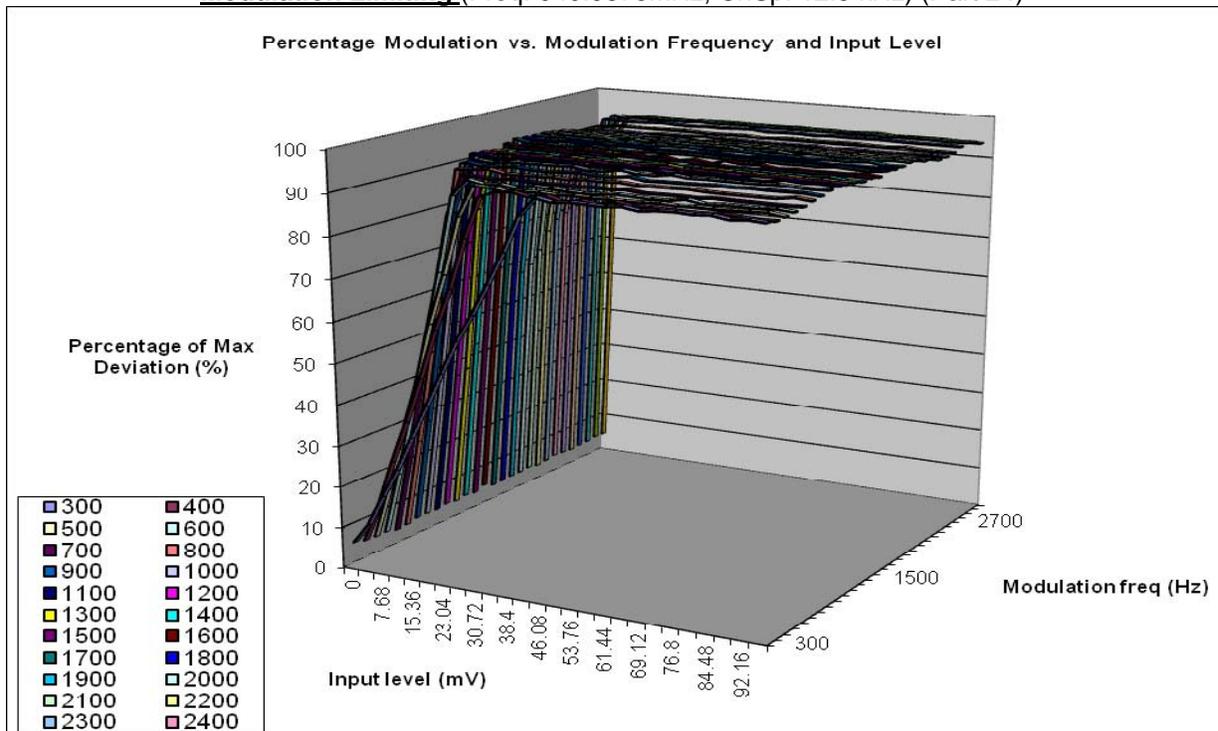


Exhibit 6D-4

**EXHIBIT 6E****BANDWIDTH CALCULATIONS:**

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

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

$$M = \text{Maximum modulating frequency}$$

$$D = \text{Deviation}$$

**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 (12.5 kHz Channelization, Analog Voice):

Emission Designator 10K0F3E

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

$BW = 2(M+D) = 2*(2.5 \text{ kHz} + 2.5 \text{ kHz}) = 10 \text{ kHz} \Rightarrow 10K0$   
F3E portion of the designator indicates voice.

Therefore, the entire designator for 12.5 kHz channelization analog voice is 10K0F3E.

**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.

**Conducted Antenna Occupied Bandwidth**

*Spectrum Analyzer setting as below:  
 RBW = 150 Hz, VBW = 15 kHz, Span = 40 kHz*

Description	Occupied Bandwidth Power (99%)
Carrier, 2500Hz Audio only, 12.5 kHz channel, 11K0F3E	10.03kHz
Carrier, 2500Hz Audio only, 12.5 kHz channel, 10K0F3E	9.002kHz
Carrier, O.153 test pattern, 12.5kHz channel, 8K10F1D, 8K10F1E, 8K10F1W	7.824Hz
Carrier, CCITT V.52 test pattern, 12.5kHz channel, 8K10F1D, 8K10F1E, 8K10F1W	7.802kHz

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

**Occupied Bandwidth** (Analog Voice: 11K0F3E)  
Frequency = 896.0125MHz Channel Spacing = 12.5 kHz

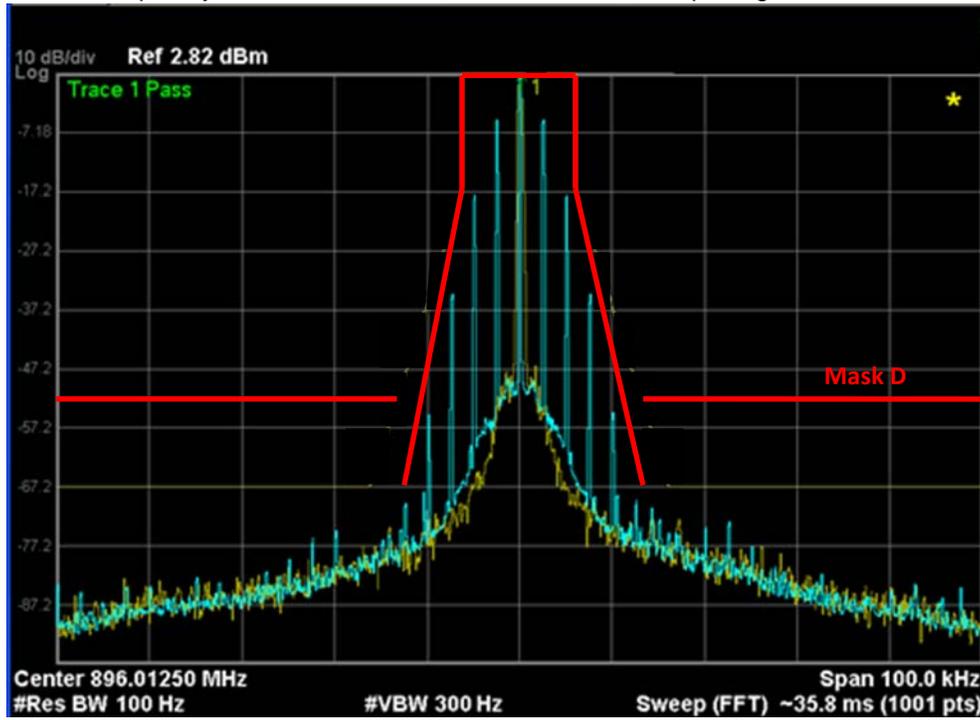


Exhibit 6E-1

**Occupied Bandwidth** (Analog Voice: 11K0F3E)  
Frequency = 900.9875 MHz Channel Spacing = 12.5 kHz

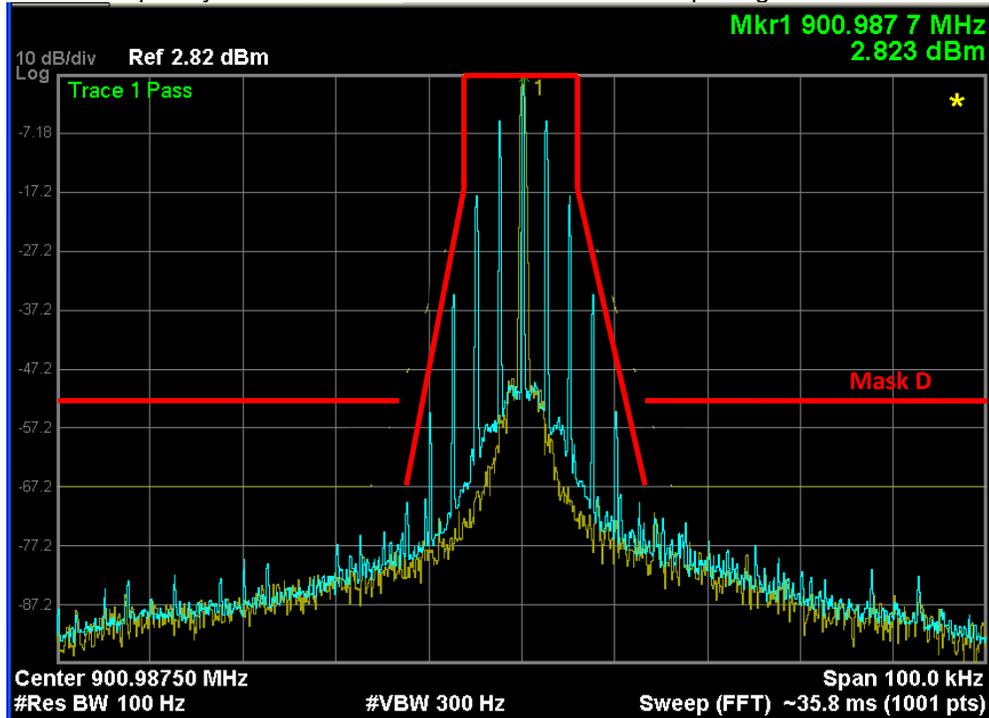


Exhibit 6E-2

**Occupied Bandwidth** (Analog Voice: 10K0F3E)  
Frequency = 901.9875 MHz Channel Spacing = 12.5 kHz

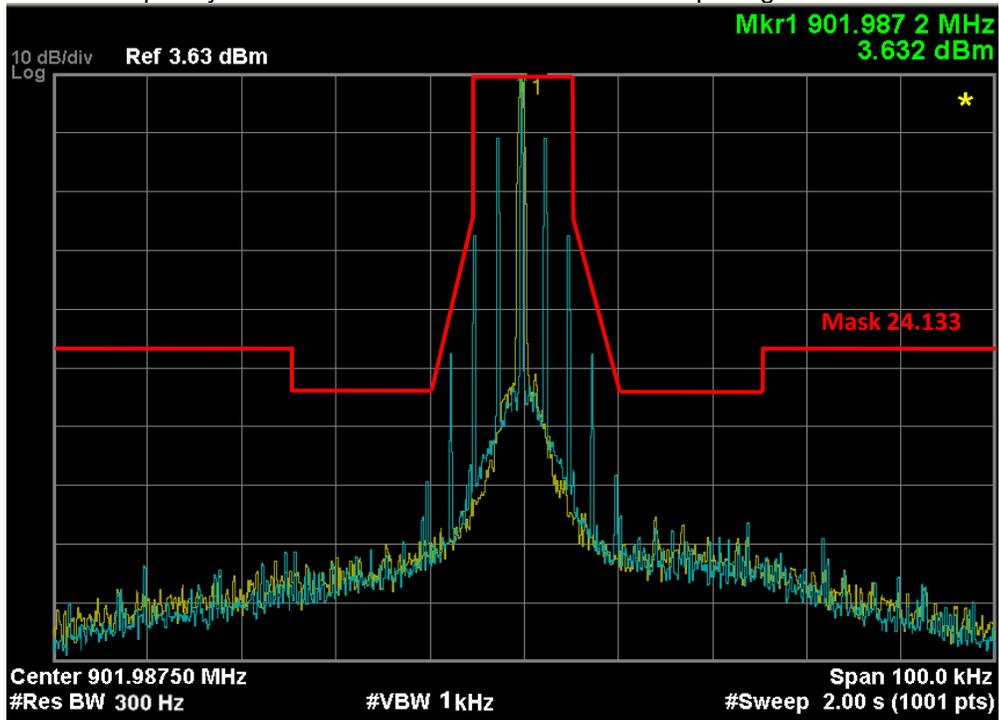


Exhibit 6E-3

**Occupied Bandwidth** (Analog Voice: 11K0F3E)  
Frequency = 935.0125MHz Channel Spacing = 12.5 kHz

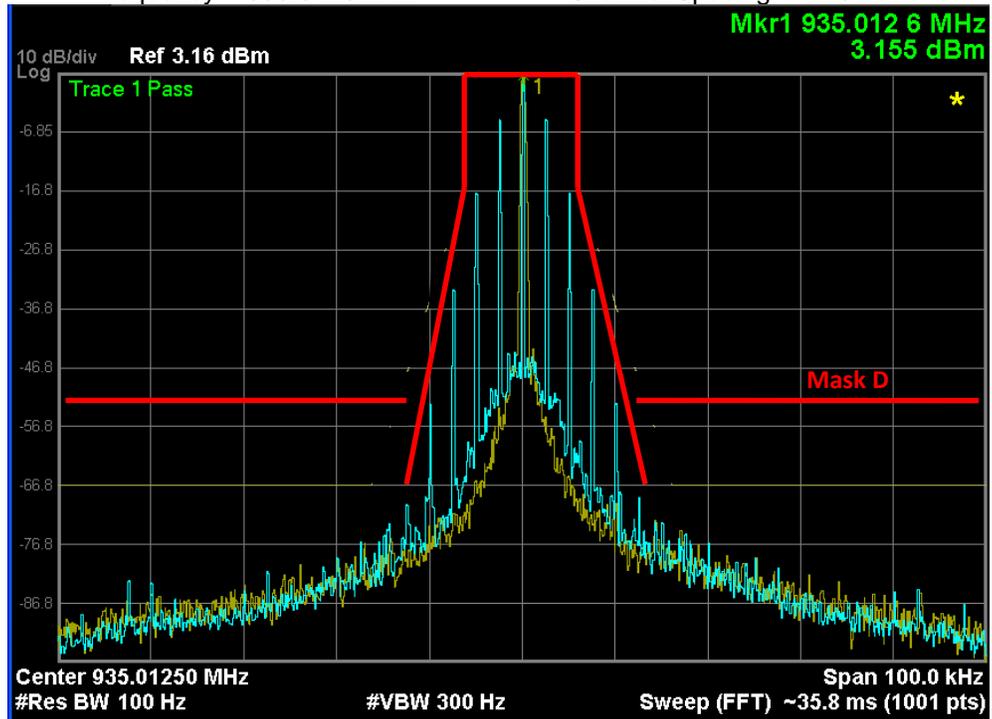


Exhibit 6E-4

**Occupied Bandwidth** (Analog Voice: 11K0F3E)  
Frequency = 939.9875 MHz Channel Spacing = 12.5 kHz

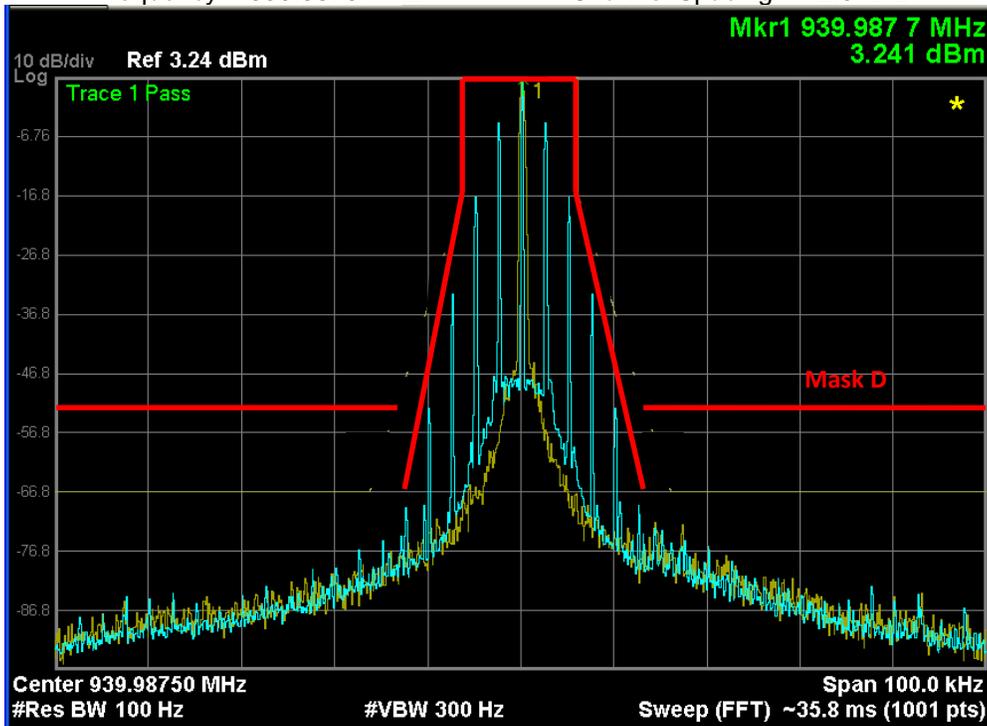


Exhibit 6E-5

**Occupied Bandwidth** (Analog Voice: 10K0F3E)  
Frequency = 940.9875 MHz Channel Spacing = 12.5 kHz

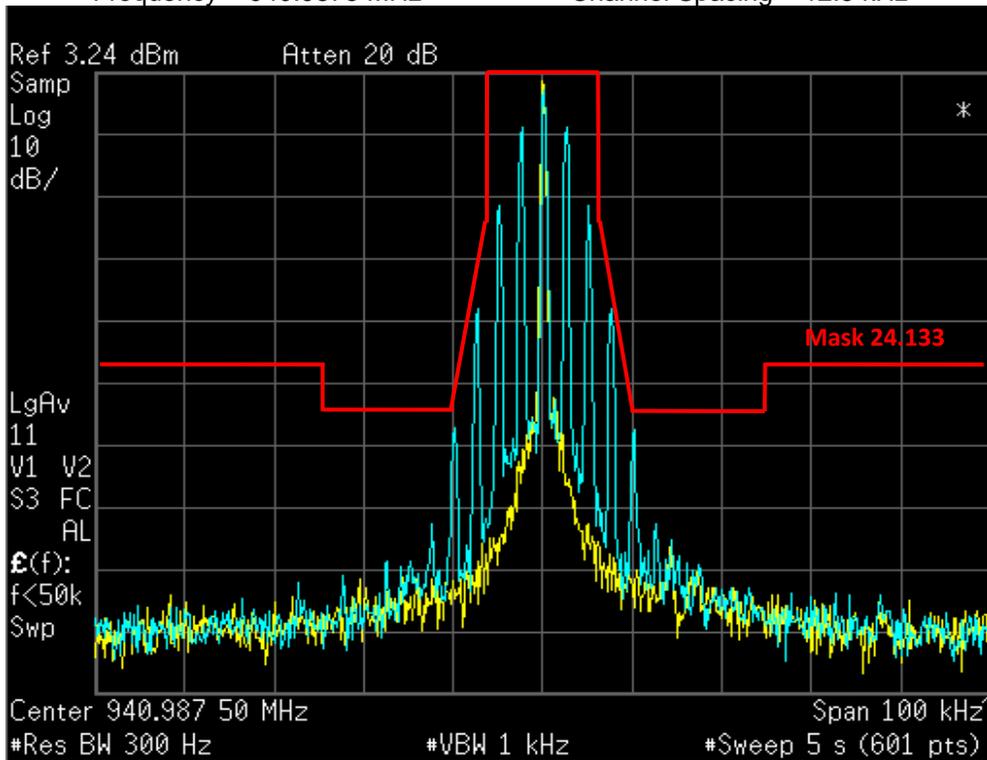


Exhibit 6E-6

**Occupied Bandwidth** (Digital Data: 8K10F1D)  
Frequency = 896.0125 MHz Channel Spacing = 12.5 kHz

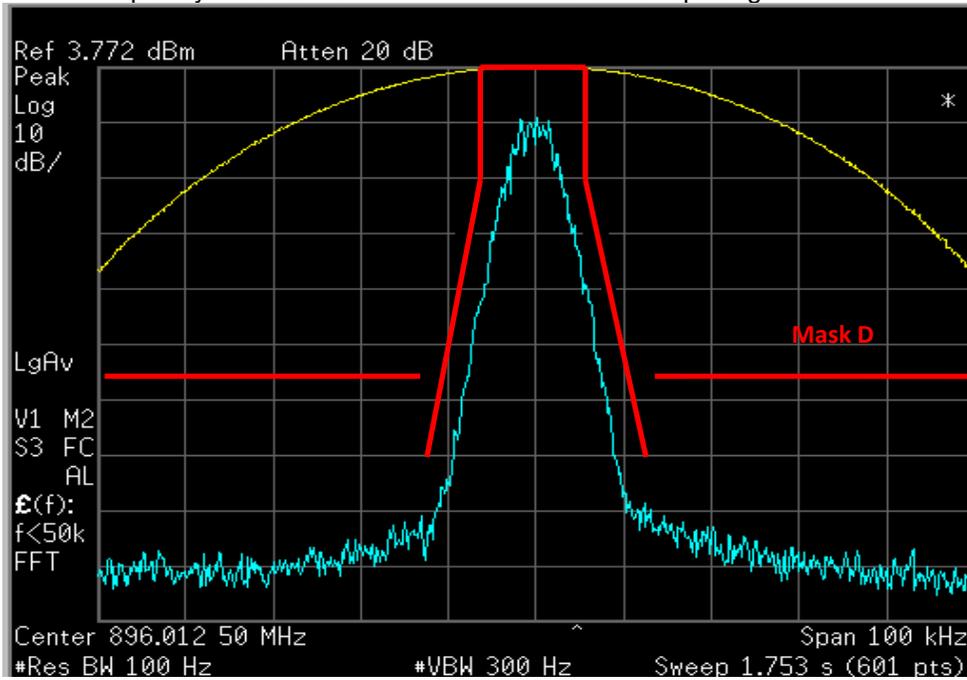


Exhibit 6E-7

**Occupied Bandwidth** (Digital Data: 8K10F1D)  
Frequency = 900.9875 MHz Channel Spacing = 12.5 kHz

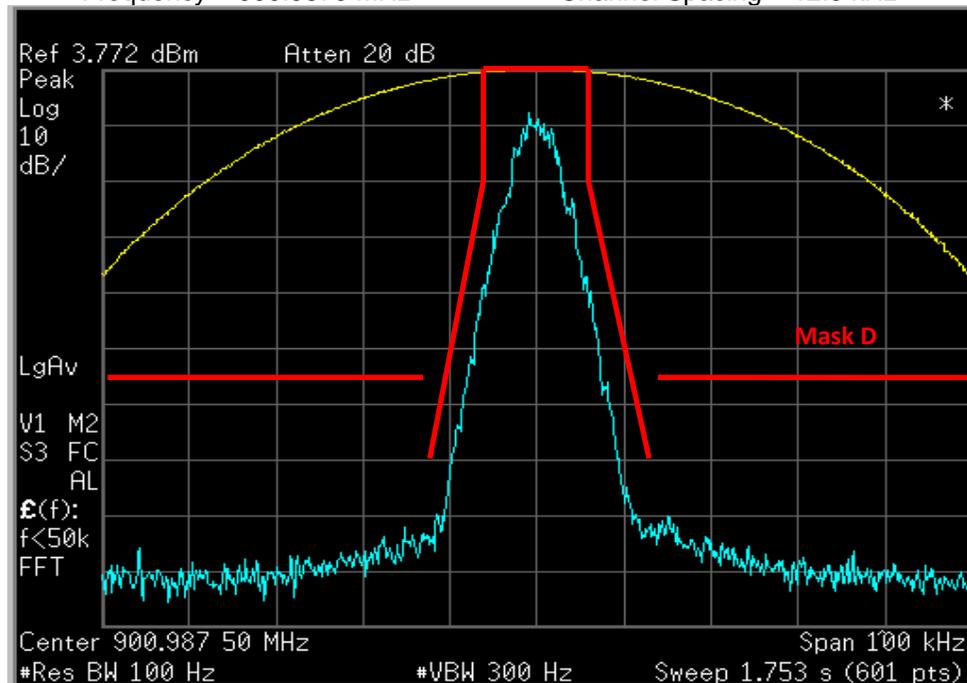


Exhibit 6E-8

**Occupied Bandwidth** (Digital Data: 8K10F1D)  
Frequency = 901.9875 MHz Channel Spacing = 12.5 kHz

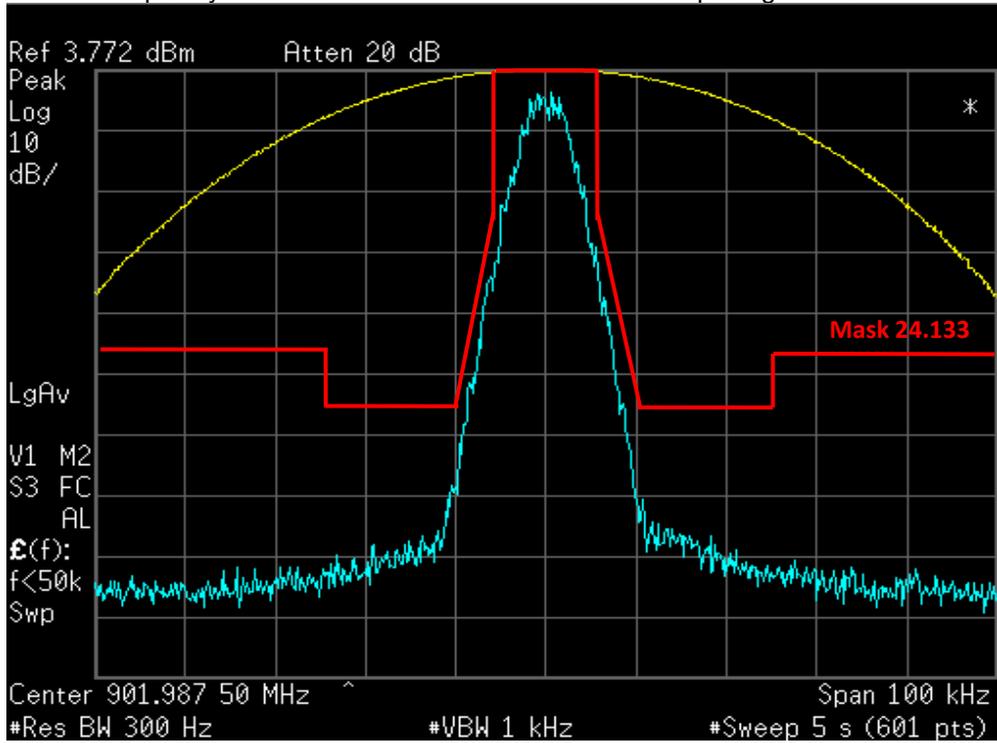


Exhibit 6E-9

**Occupied Bandwidth** (Digital Data: 8K10F1D)  
Frequency = 935.0125 MHz Channel Spacing = 12.5 kHz

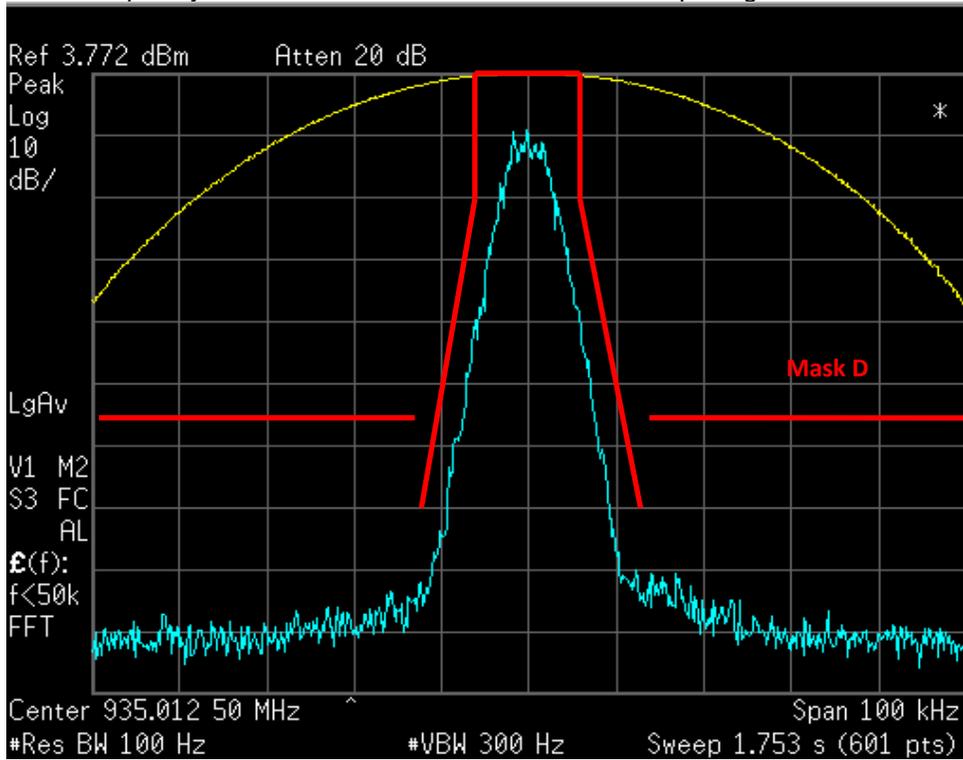


Exhibit 6E-10

**Occupied Bandwidth** (Digital Data: 8K10F1D)  
Frequency = 939.9875 MHz Channel Spacing = 12.5 kHz

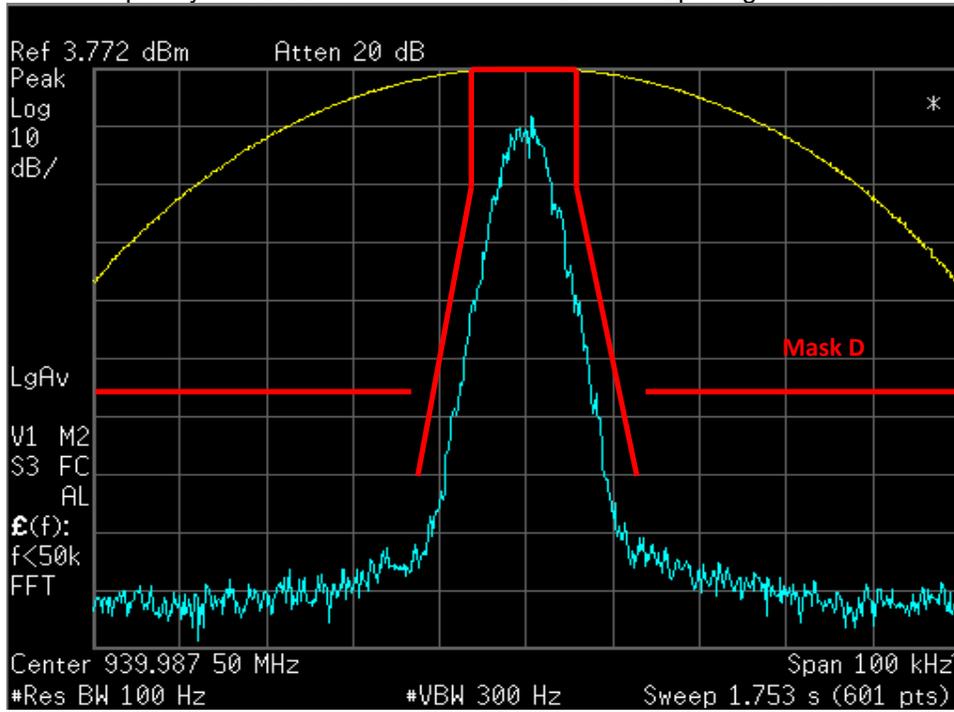


Exhibit 6E-11

**Occupied Bandwidth** (Digital Data: 8K10F1D)  
Frequency = 940.9875 MHz Channel Spacing = 12.5 kHz

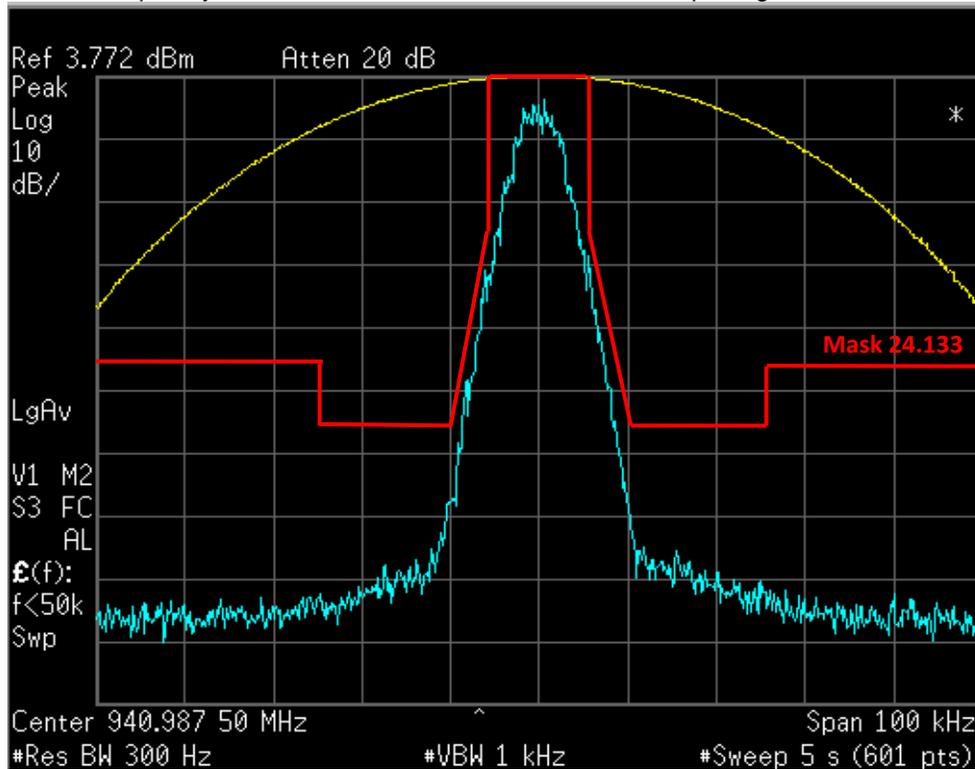
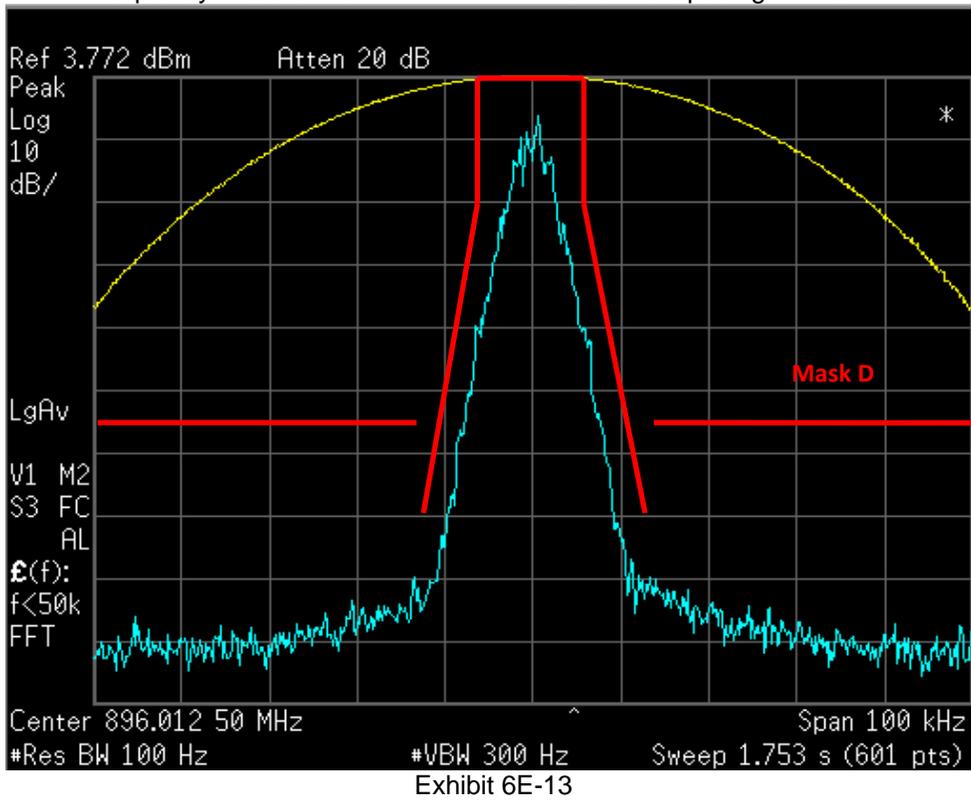


Exhibit 6E-12

**Occupied Bandwidth** (Digital Voice: 8K10F1E)  
Frequency = 896.0125 MHz Channel Spacing = 12.5 kHz



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

Frequency = 900.9875 MHz Channel Spacing = 12.5 kHz

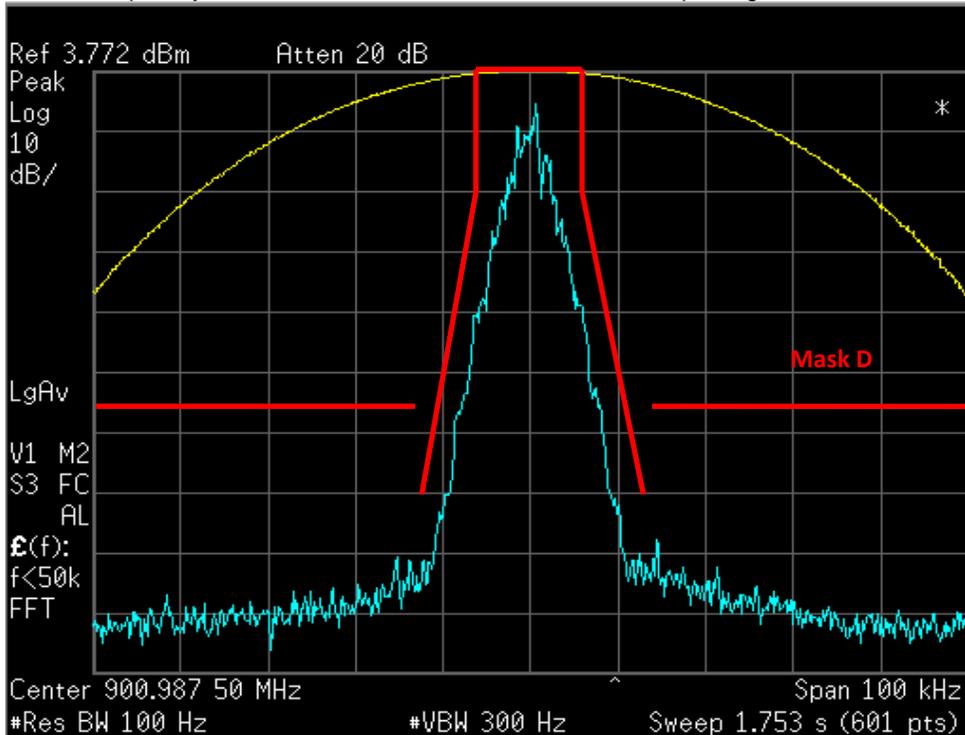


Exhibit 6E-14

**Occupied Bandwidth** (Digital Voice: 8K10F1E)  
Frequency = 901.9875 MHz Channel Spacing = 12.5 kHz

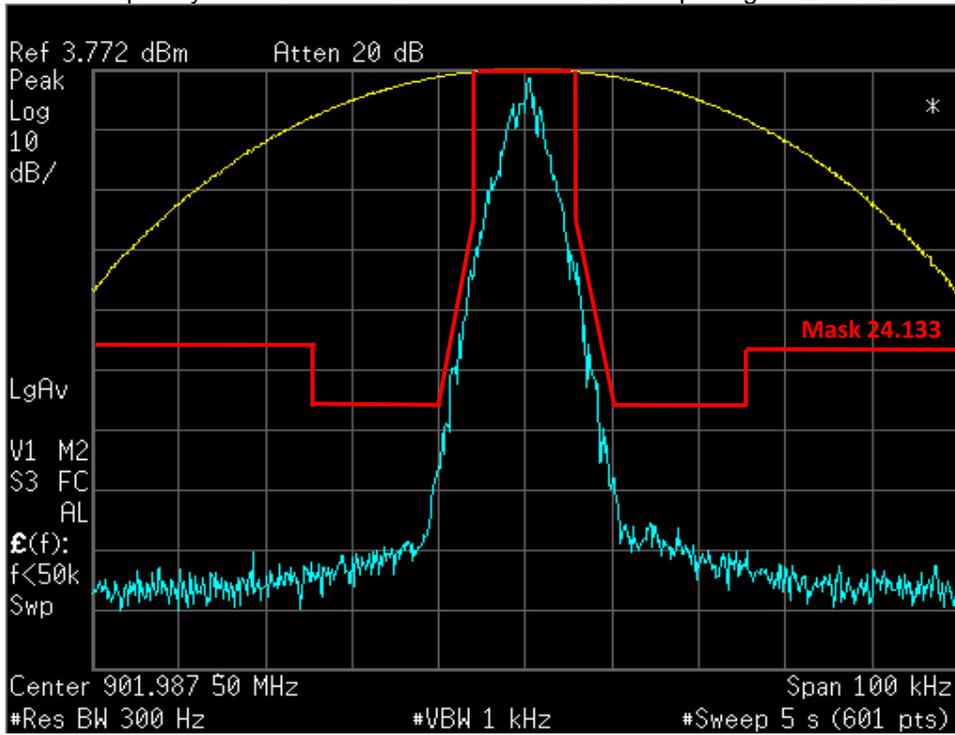


Exhibit 6E-15

**Occupied Bandwidth** (Digital Voice: 8K10F1E)  
Frequency = 935.0125 MHz Channel Spacing = 12.5 kHz

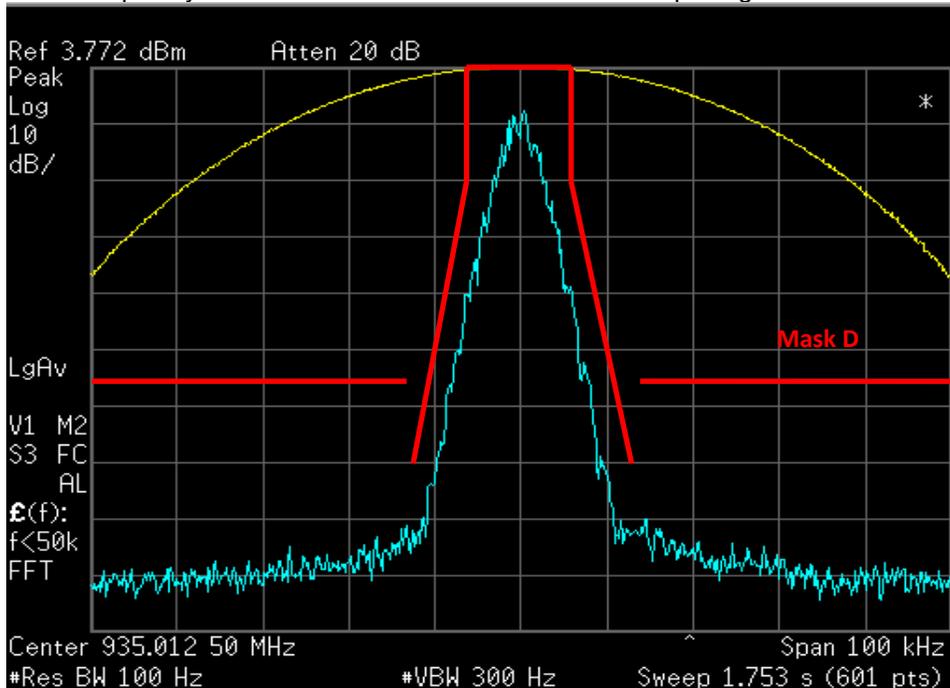


Exhibit 6E-16

**Occupied Bandwidth** (Digital Voice: 8K10F1E)  
Frequency = 939.9875 MHz Channel Spacing = 12.5 kHz

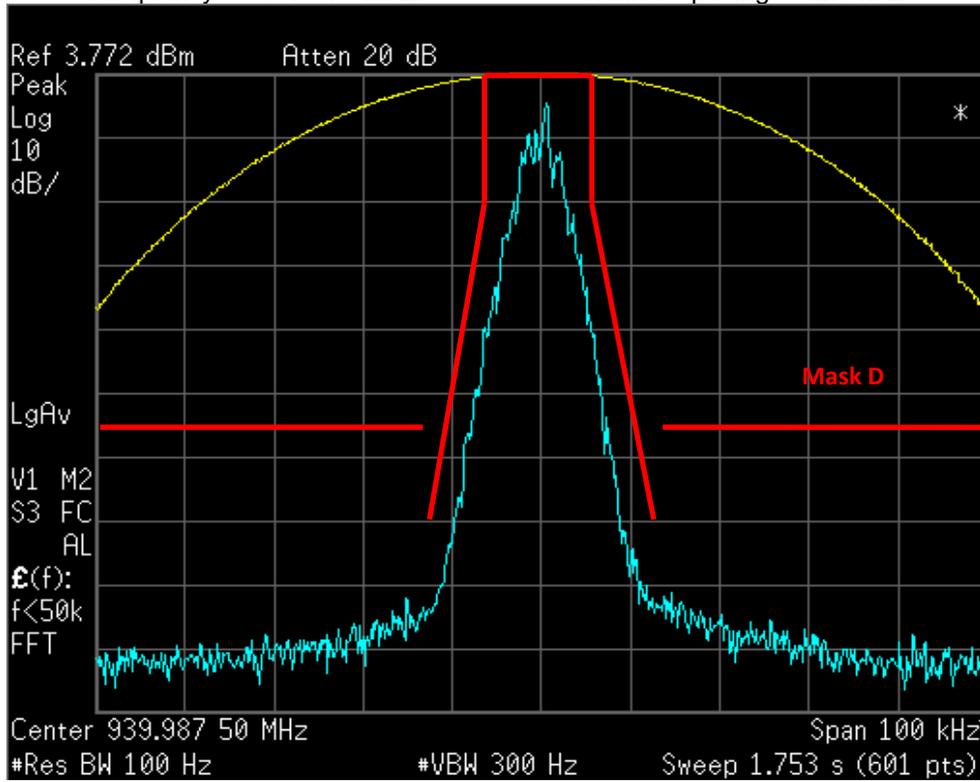


Exhibit 6E-17

**Occupied Bandwidth** (Digital Voice: 8K10F1E)  
Frequency = 940.9875 MHz Channel Spacing = 12.5 kHz

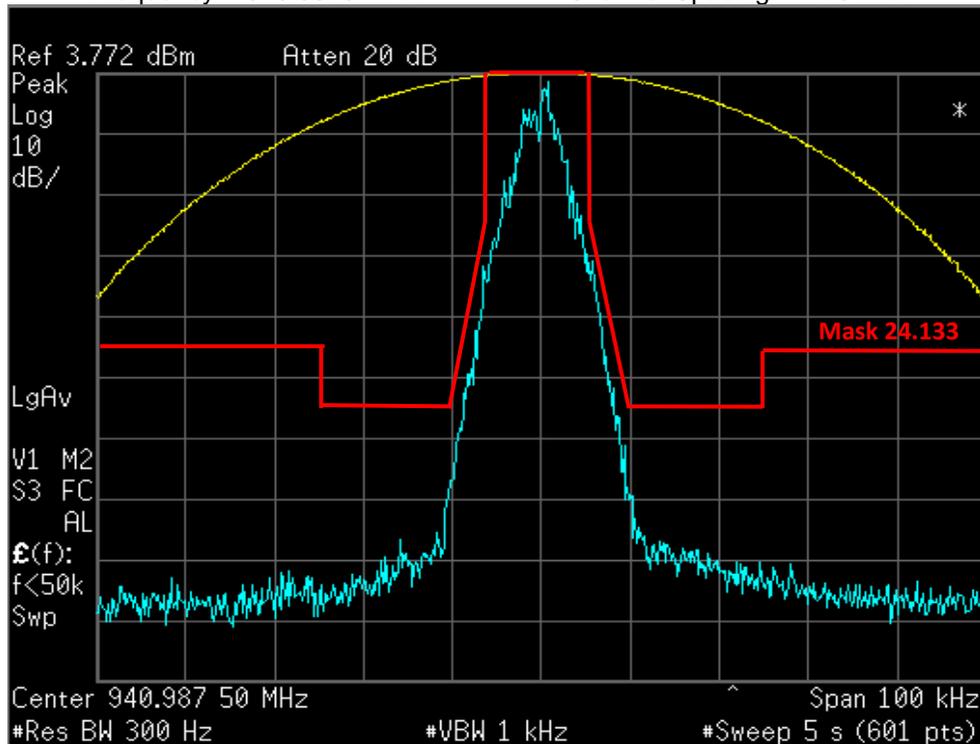


Exhibit 6E-18

**Occupied Bandwidth** (Digital TDMA: 8K10F1W)

Frequency = 896.0125 MHz

Channel Spacing = 12.5 kHz

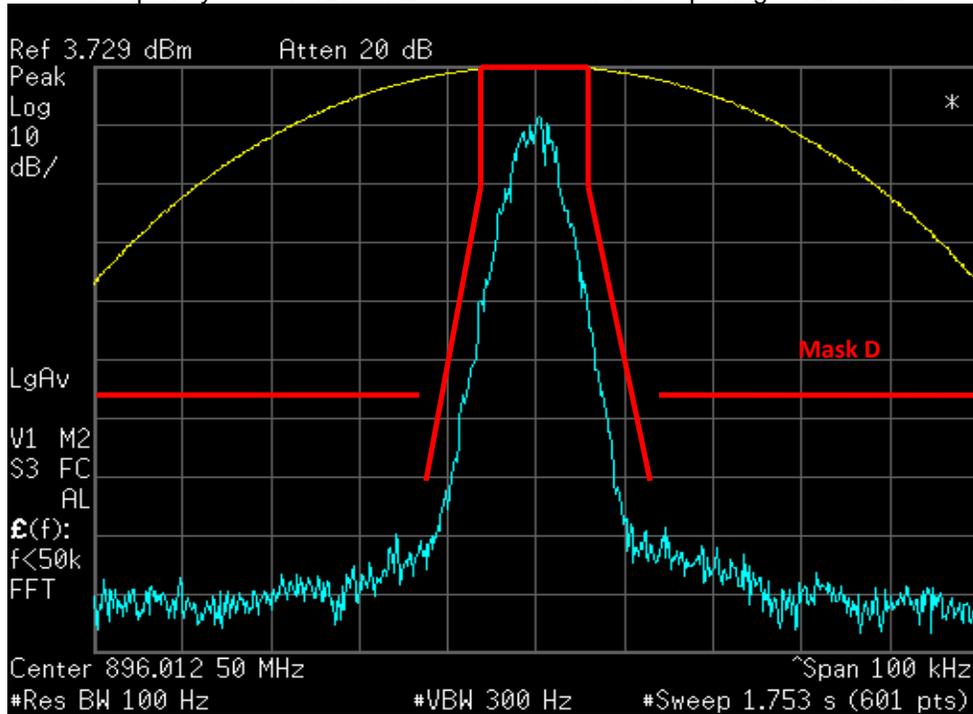


Exhibit 6E-19

**Occupied Bandwidth** (Digital TDMA: 8K10F1W)

Frequency = 900.9875 MHz

Channel Spacing = 12.5 kHz

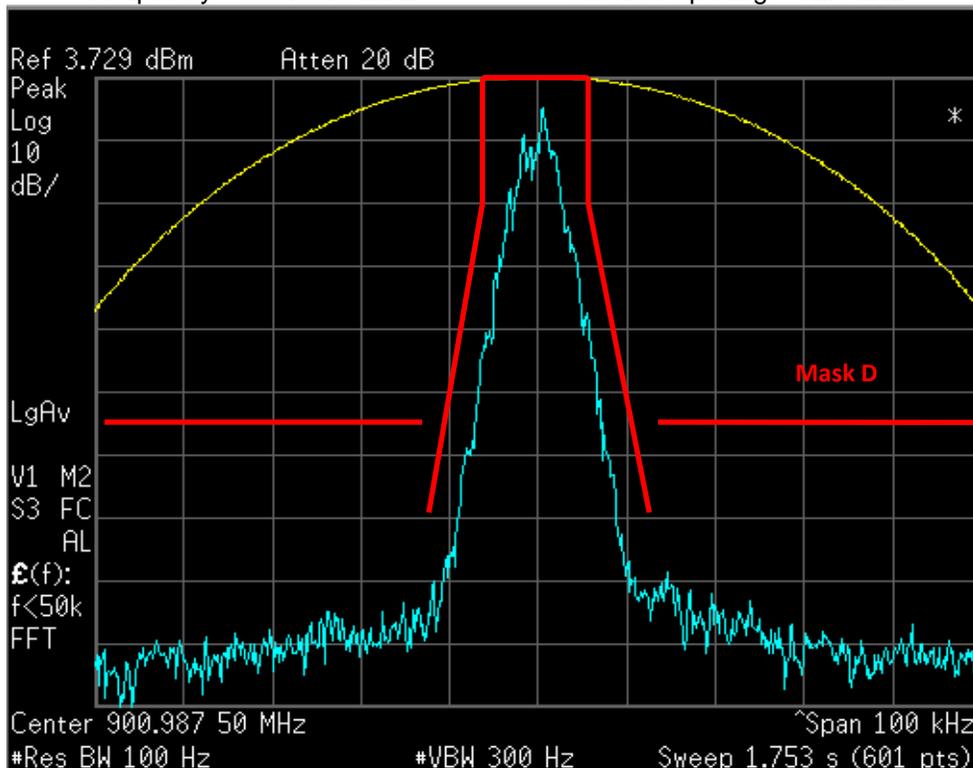


Exhibit 6E-20

**Occupied Bandwidth** (Digital TDMA: 8K10F1W)

Frequency = 901.9875 MHz

Channel Spacing = 12.5 kHz

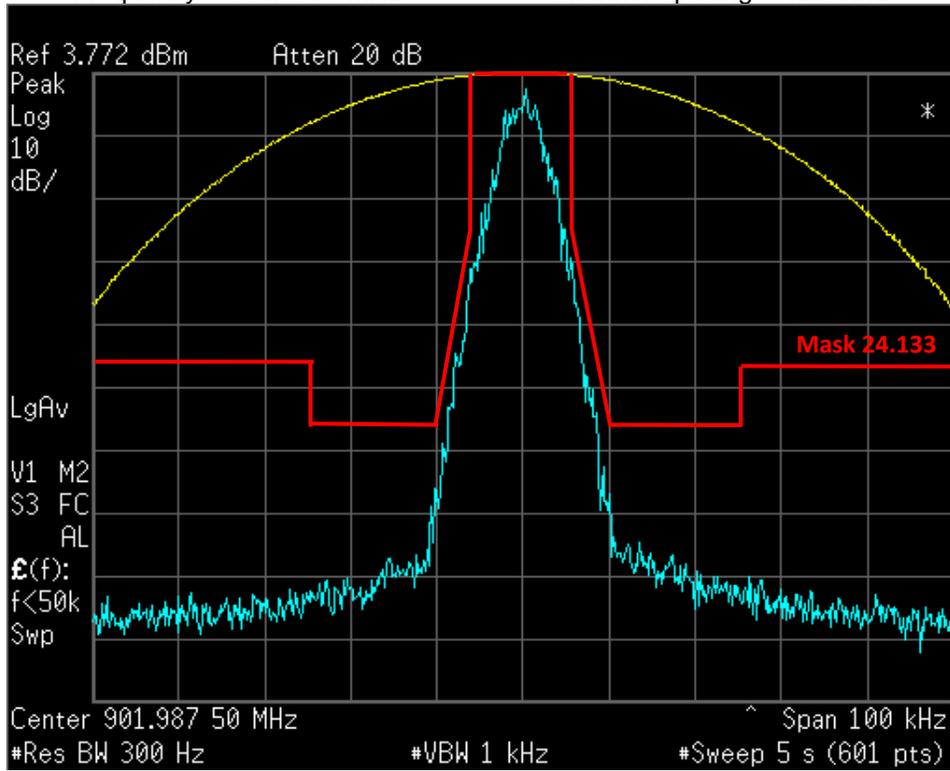


Exhibit 6E-21

**Occupied Bandwidth** (Digital TDMA: 8K10F1W)

Frequency = 935.0125 MHz

Channel Spacing = 12.5 kHz

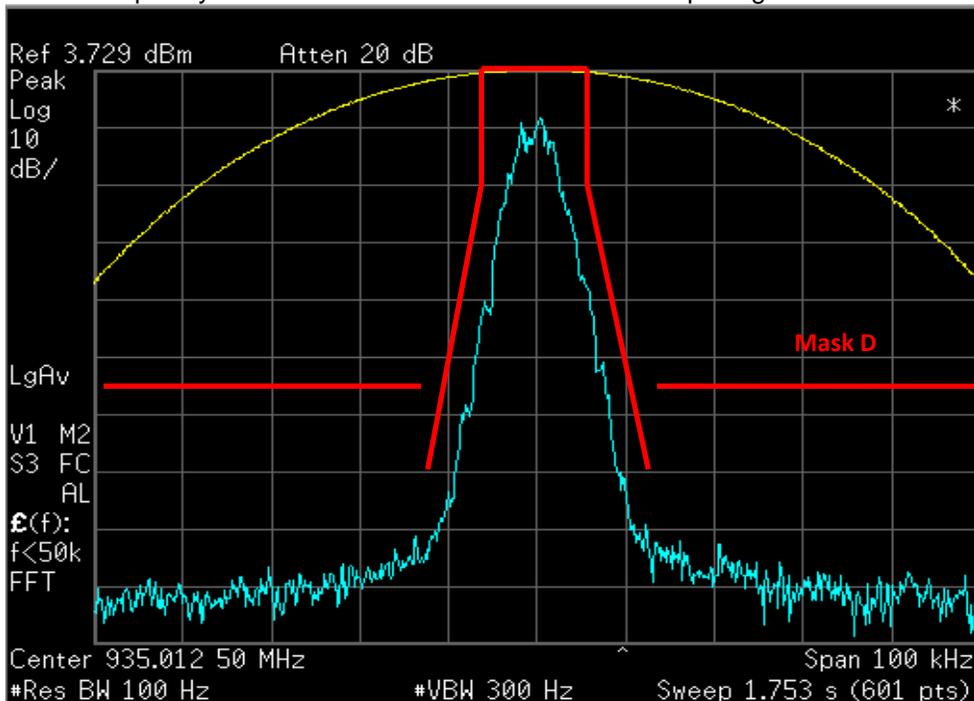


Exhibit 6E-22

**Occupied Bandwidth** (Digital TDMA: 8K10F1W)  
Frequency = 939.9875 MHz Channel Spacing = 12.5 kHz

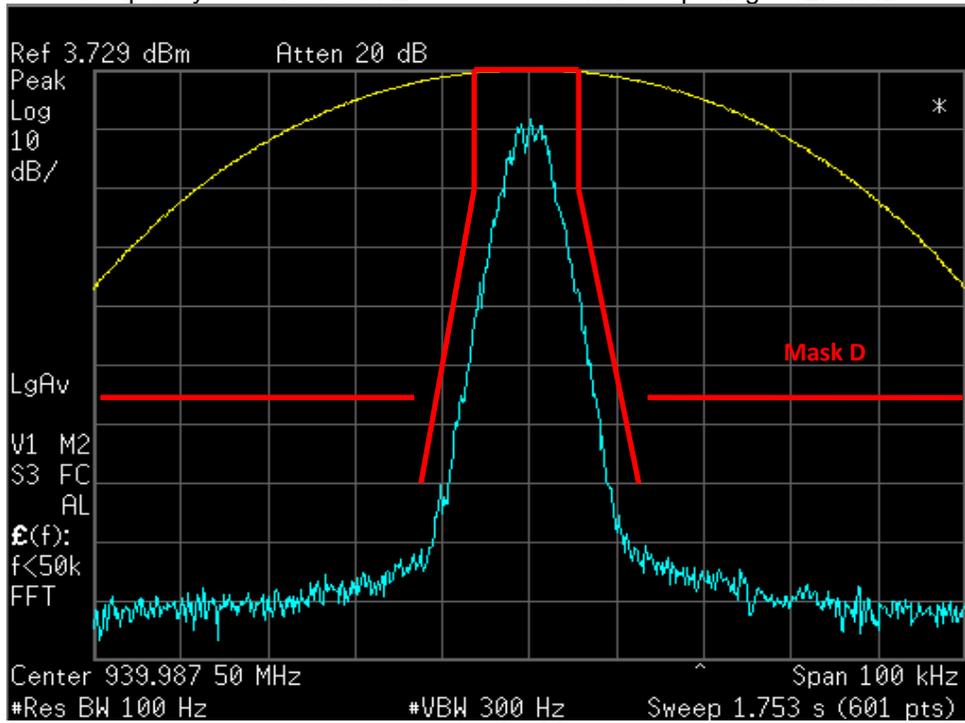


Exhibit 6E-23

**Occupied Bandwidth** (Digital TDMA: 8K10F1W)  
Frequency = 940.9875 MHz Channel Spacing = 12.5 kHz

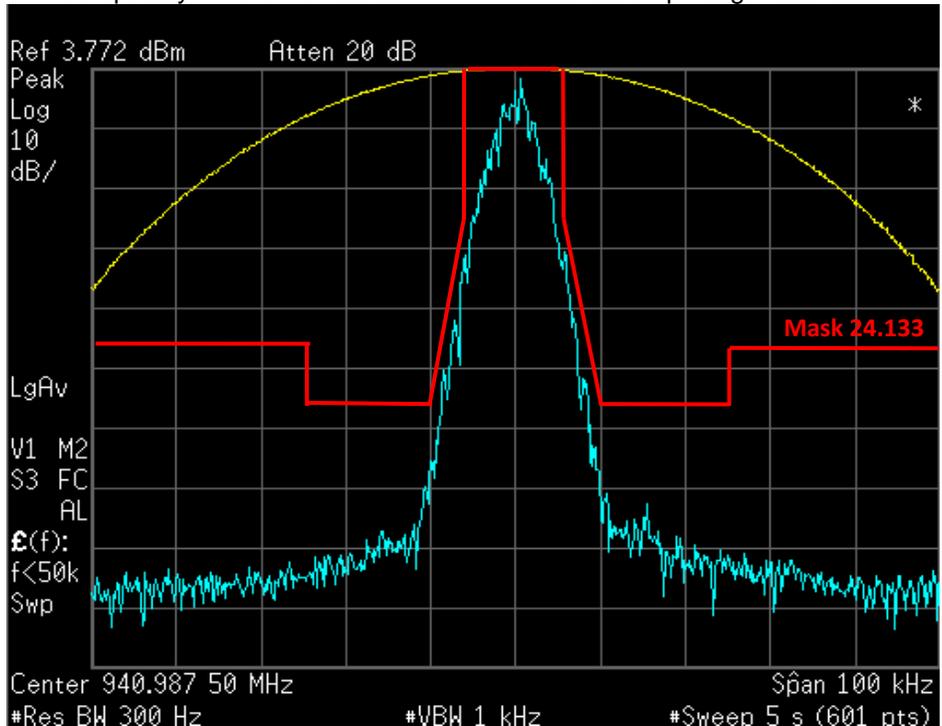


Exhibit 6E-24

**\*\*NOTE:-**

- All measurements of Occupied Bandwidth which are shown on the above plots are measured using a Spectrum Analyzer
- Measurement using a Spectrum Analyzer must use a 30dB attenuation in order to avoid damage to it
- Therefore the reference power level (Ref) shown on each plot refers to its true power level
- Mask D is conservatives and stringent compared to Mask I, hence Mask D were used in the measurement.

EXHIBIT 6F

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

Max Power 896.0125 MHz, 12.5 kHz Channel Spacing

Tx Power: 3 Watts

896.0125 MHz

Channel Spacing 12.5kHz | S/N 426CNR0100

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1792.0250	-20	*	*
2688.0375	-20	*	*
3584.0500	-20	*	*
4480.0625	-20	*	*
5376.0750	-20	*	*
6272.0875	-20	*	*
7168.1000	-20	*	*
8064.1125	-20	*	*
8960.1250	-20	*	*

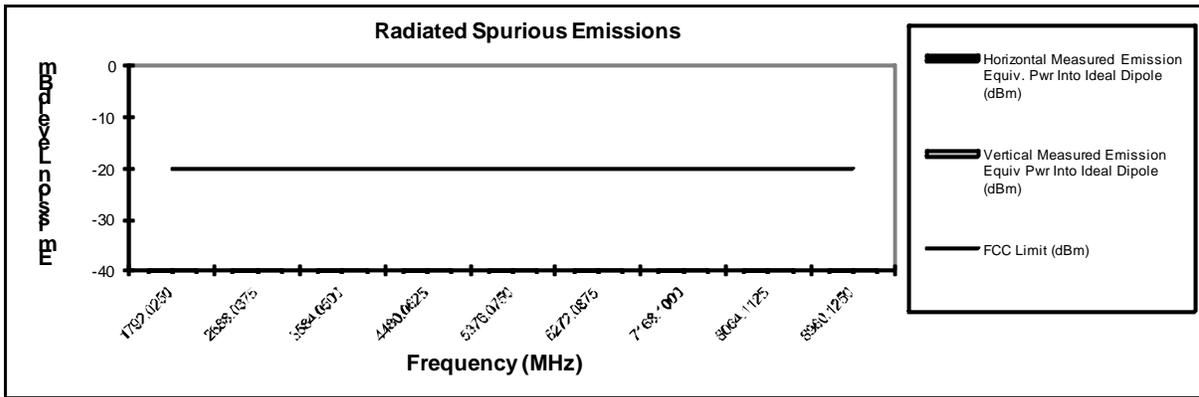


Exhibit 6F-1

Max Power 900.9875 MHz, 12.5 kHz Channel Spacing  
**Tx Power: 3 Watts**

**900.9875 MHz**

**Channel Spacing 12.5kHz | S/N 426CNR0100**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1801.9750	-20	*	*
2702.9625	-20	*	*
3603.9500	-20	*	*
4504.9375	-20	*	*
5405.9250	-20	*	*
6306.9125	-20	*	*
7207.9000	-20	*	*
8108.8875	-20	*	*
9009.8750	-20	*	*

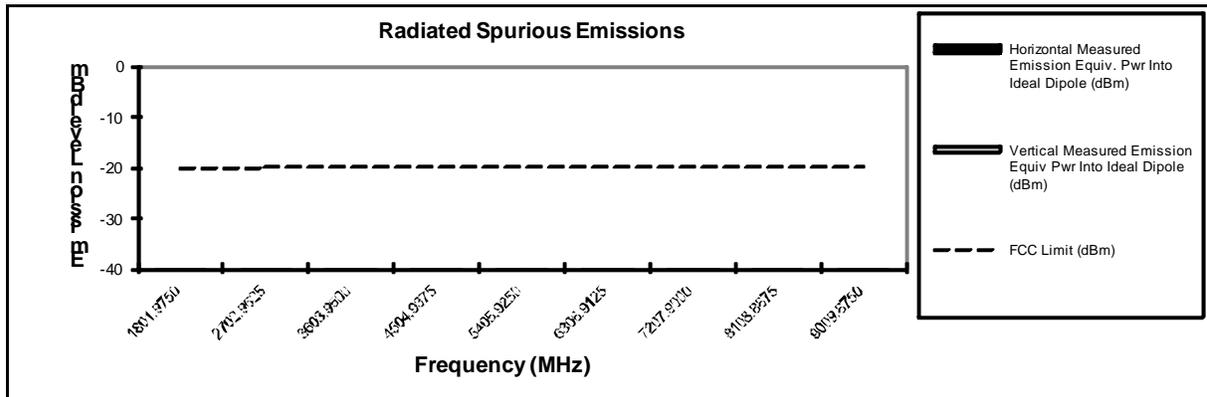


Exhibit 6F-2

Max Power 935.0125 MHz, 12.5 kHz Channel Spacing  
**Tx Power: 3 Watts**

**935.0125 MHz**

**Channel Spacing 12.5kHz | S/N 426CNR0100**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1870.0250	-20	*	*
2805.0375	-20	*	*
3740.0500	-20	*	*
4675.0625	-20	-32.85	*
5610.0750	-20	*	*
6545.0875	-20	*	*
7480.1000	-20	*	*
8415.1125	-20	*	*
9350.1250	-20	*	*

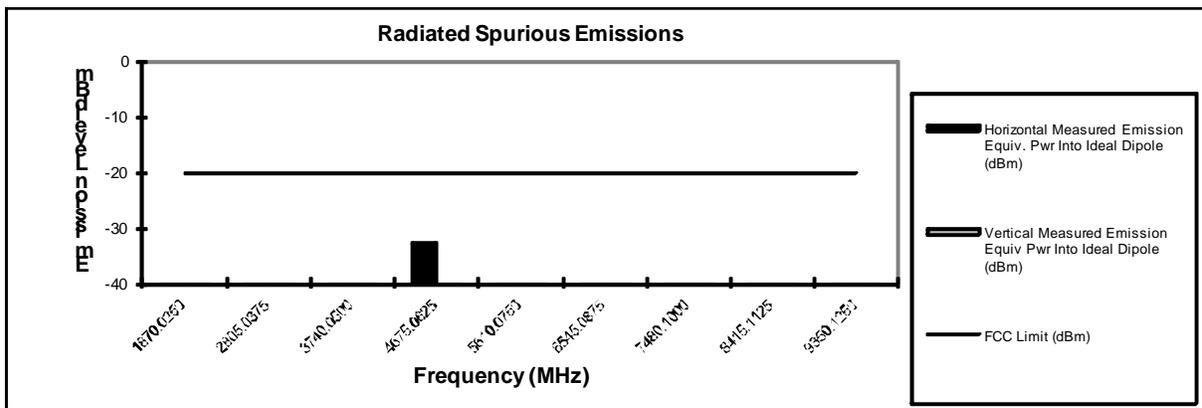


Exhibit 6F-3

Max Power 939.9875 MHz, 12.5 kHz Channel Spacing  
**Tx Power: 3 Watts**

**939.9875 MHz**

**Channel Spacing 12.5kHz | S/N 426CNR0100**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1879.9750	-20	*	*
2819.9625	-20	*	*
3759.9500	-20	*	*
4699.9375	-20	-26.94	-27.94
5639.9250	-20	*	*
6579.9125	-20	*	*
7519.9000	-20	*	*
8459.8875	-20	*	*
9399.8750	-20	*	*

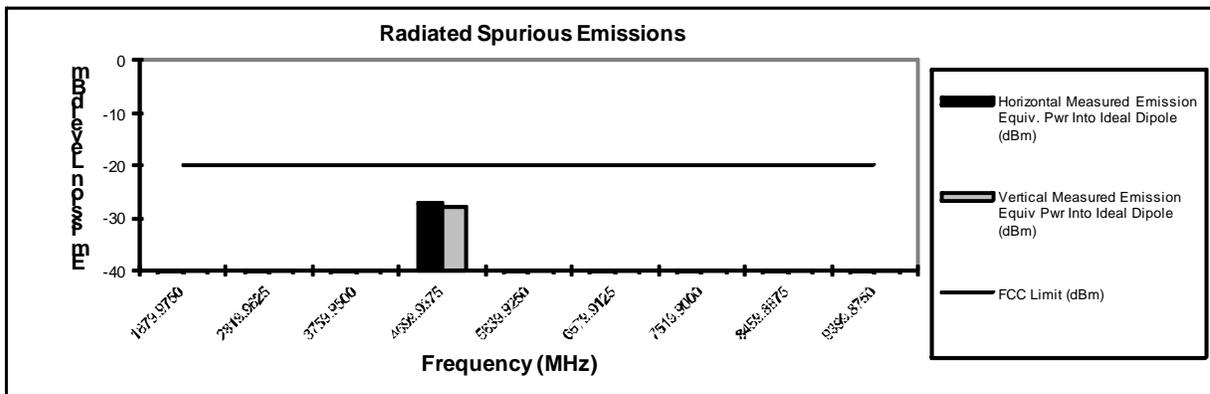


Exhibit 6F-4





**EXHIBIT 6G**

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

Frequency Stability (899.0125 MHz) vs. Supply Voltage

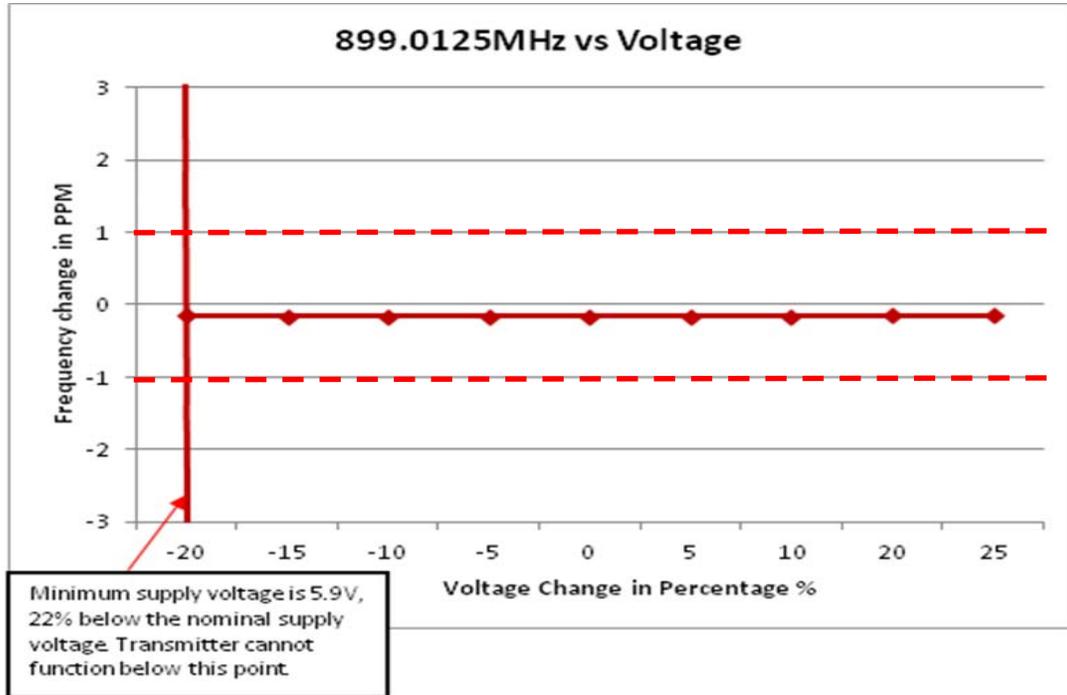
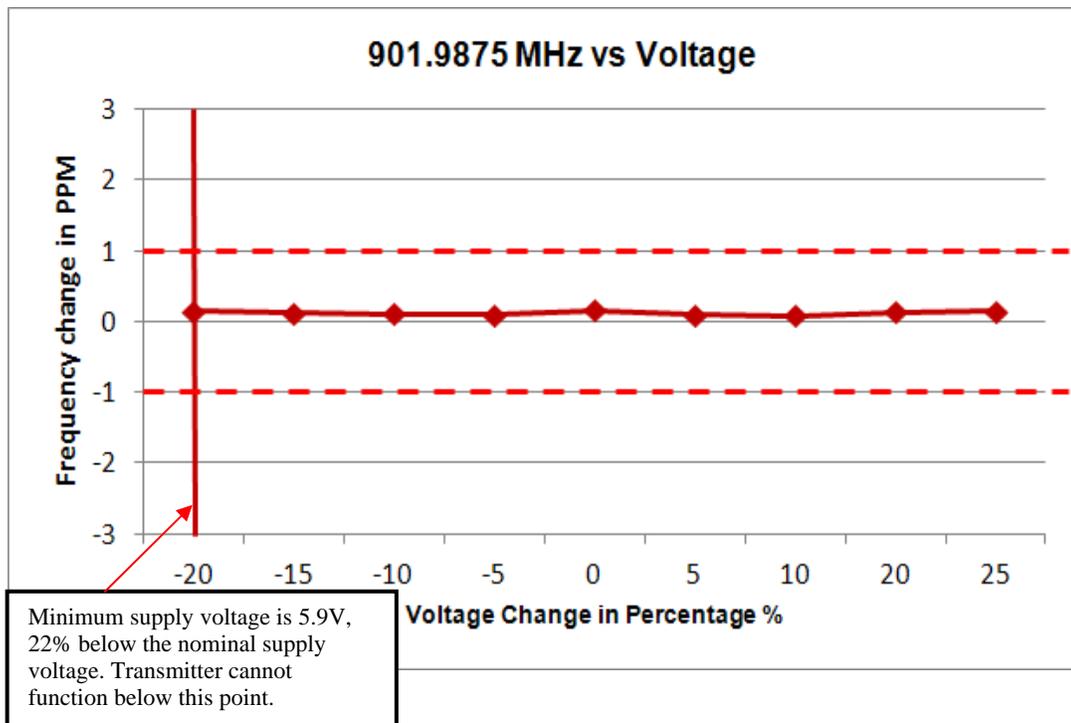


Exhibit 6G-1

Frequency Stability (901.9875 MHz) vs. Supply Voltage (Part 24)



Frequency Stability (938.0125 MHz) vs. Supply Voltage

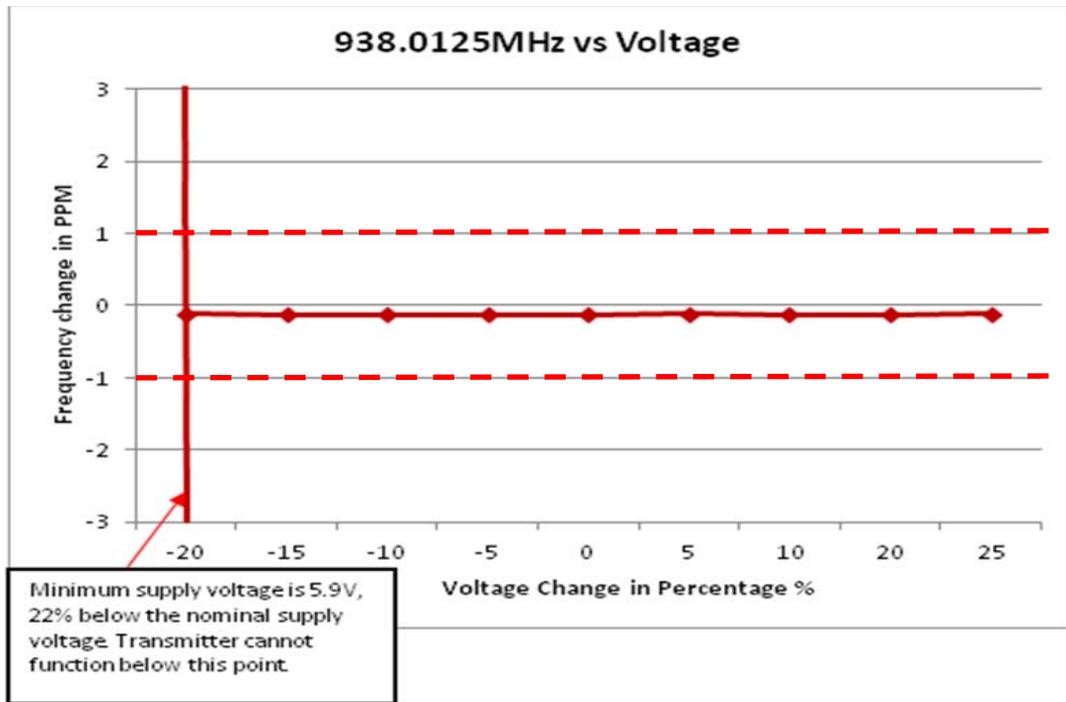
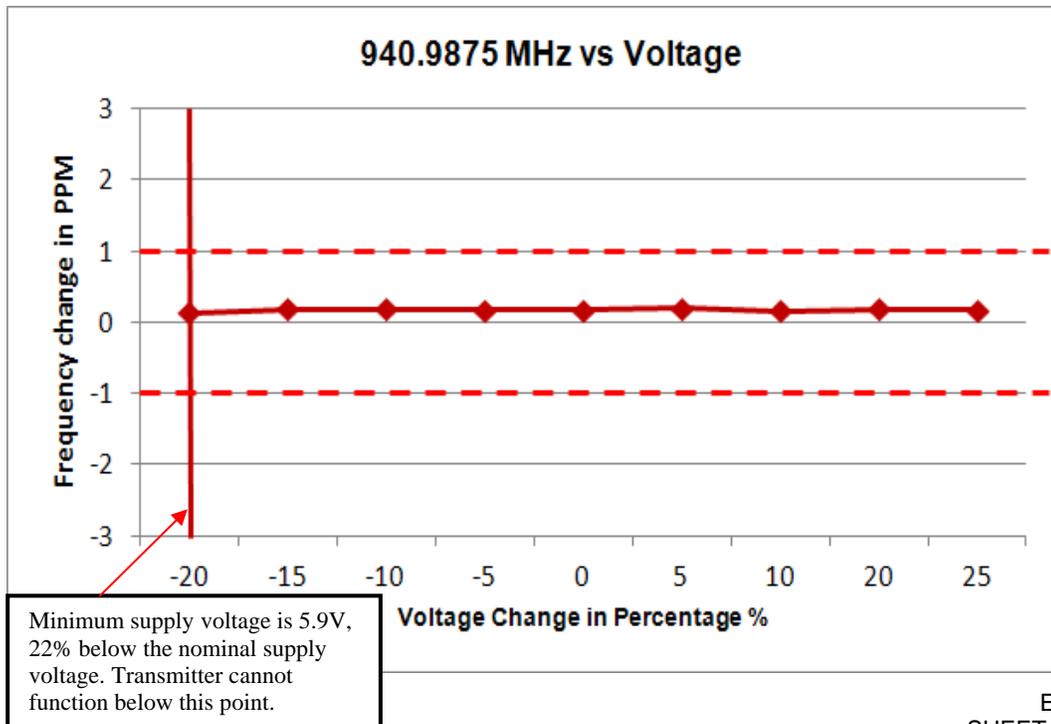


Exhibit 6G-3

Frequency Stability (940.9875 MHz) vs. Supply Voltage (Part 24)



Frequency Stability (899.0125 MHz) vs. Temperature

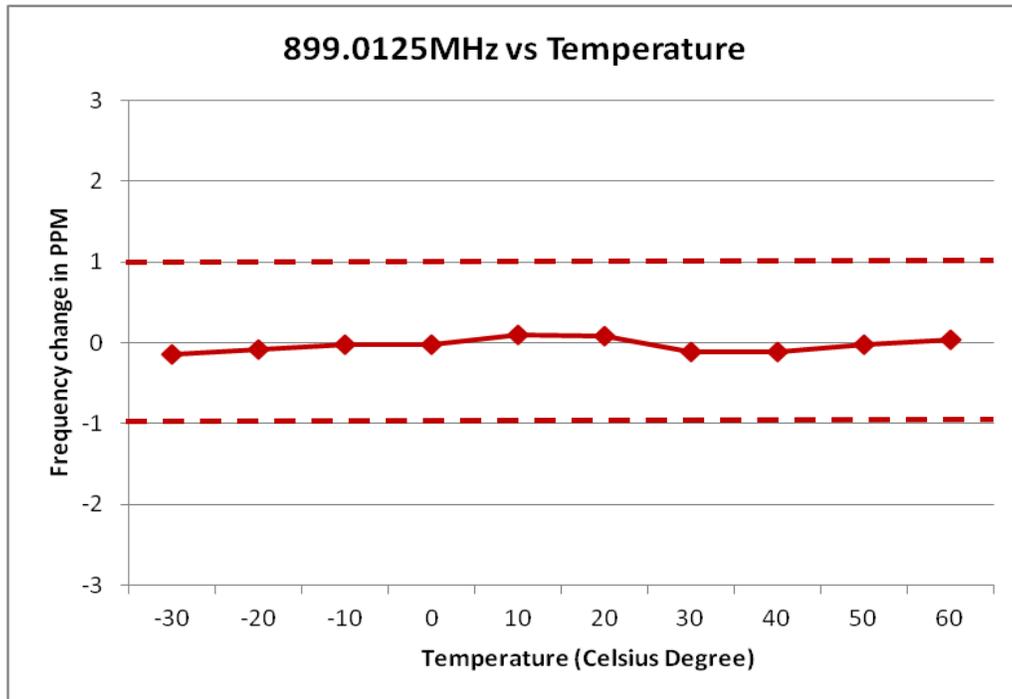
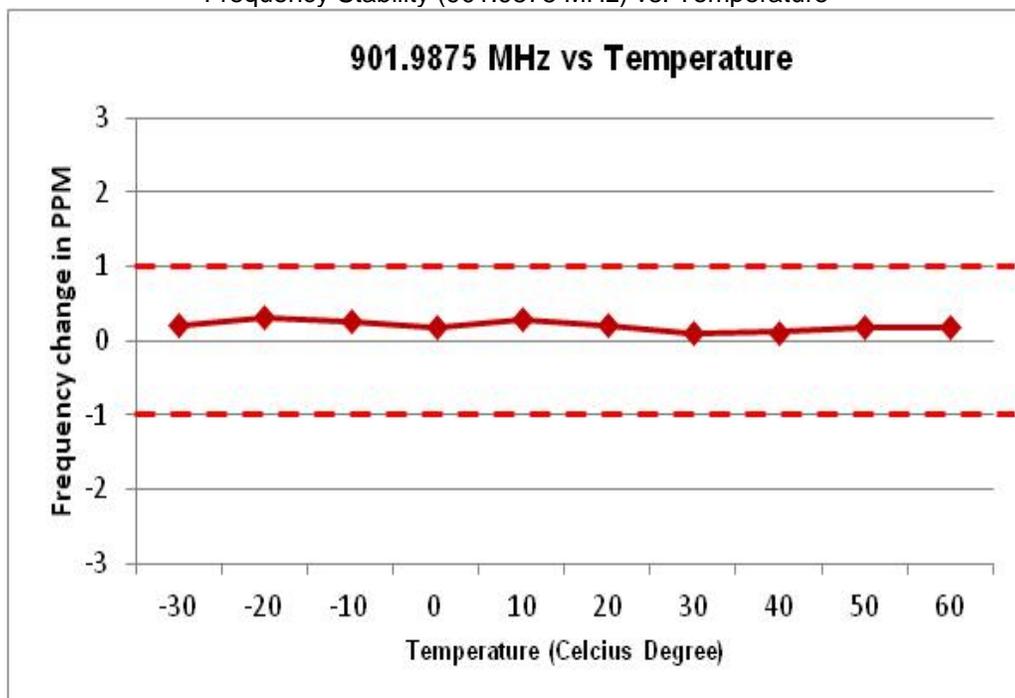


Exhibit 6G-5

Frequency Stability (901.9875 MHz) vs. Temperature



Frequency Stability (938.0125 MHz) vs. Temperature

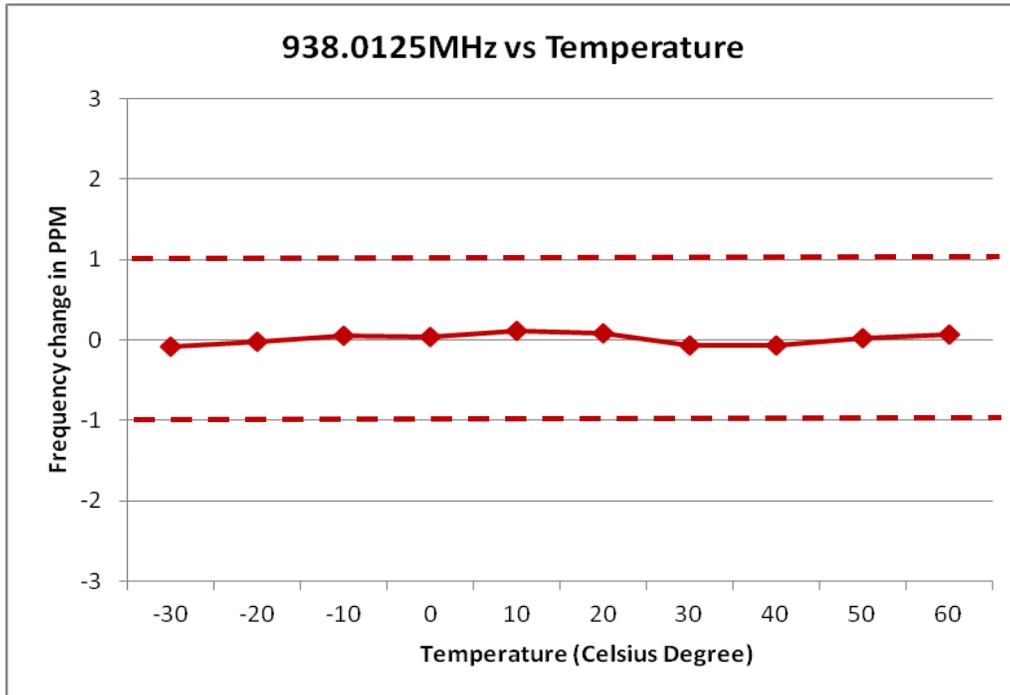


Exhibit 6G-7

Frequency Stability (940.9875 MHz) vs. Temperature

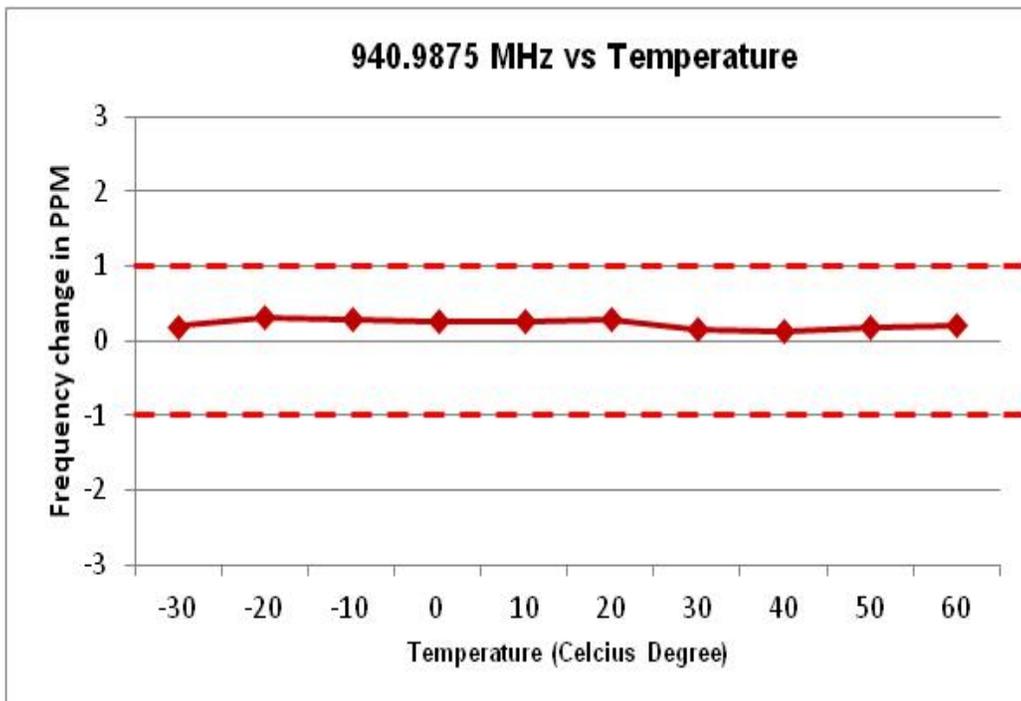


Exhibit 6G-8

**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

896.0125 MHz, 12.5 kHz Channel Spacing, 3.0Watts

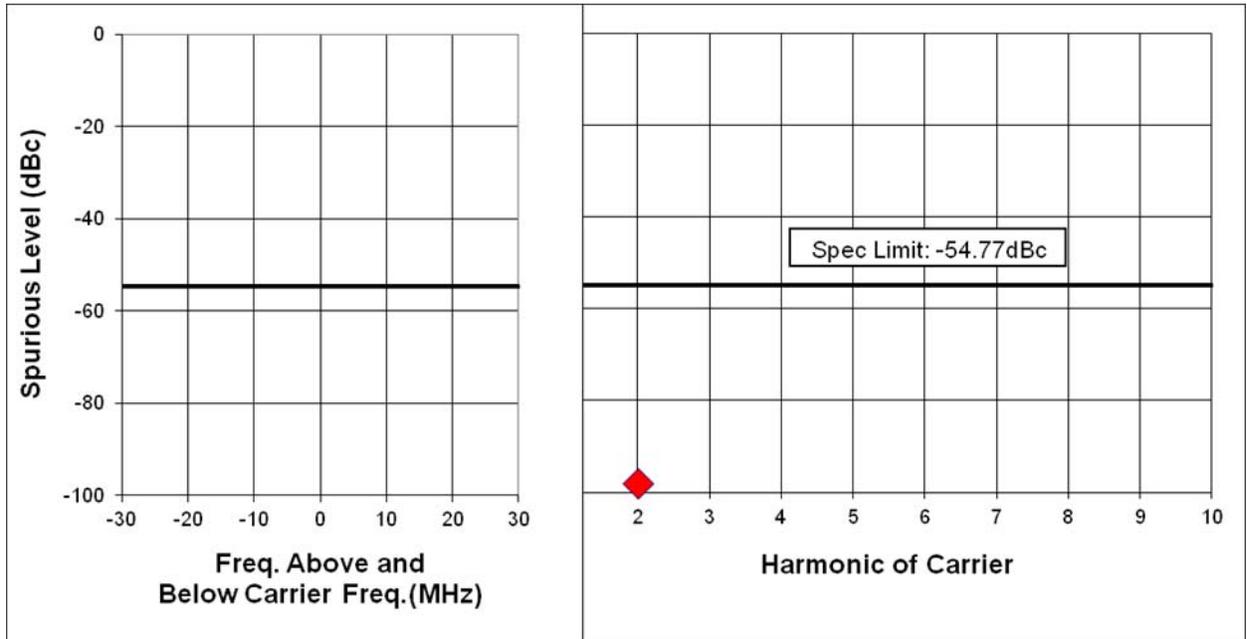


Exhibit 6H-1

899.0125 MHz, 12.5 kHz Channel Spacing, 3.0Watts

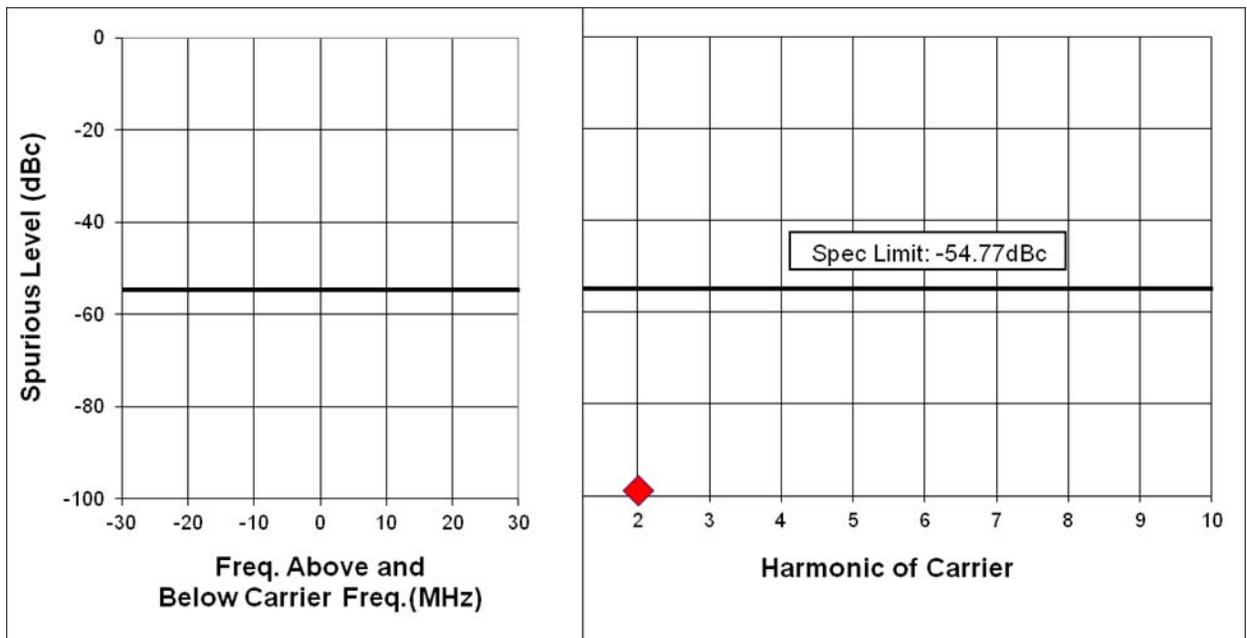


Exhibit 6H-2

901.9875 MHz, 12.5 kHz Channel Spacing, 3.0Watts

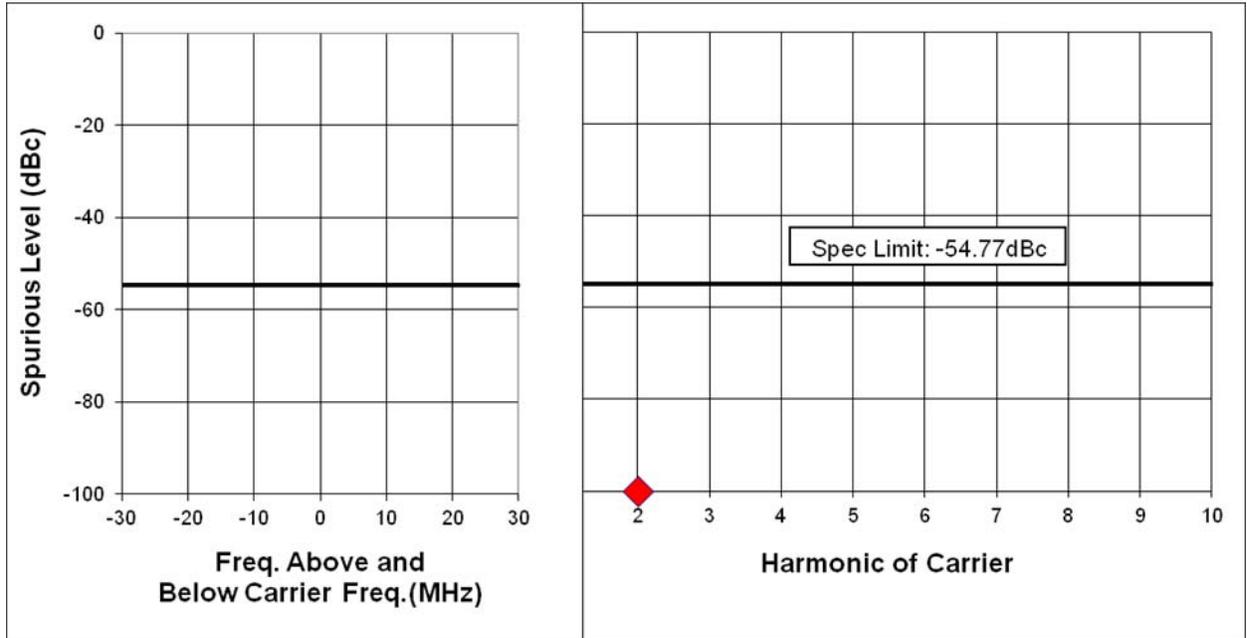


Exhibit 6H-3

935.0125 MHz, 12.5 kHz Channel Spacing, 3.0Watts

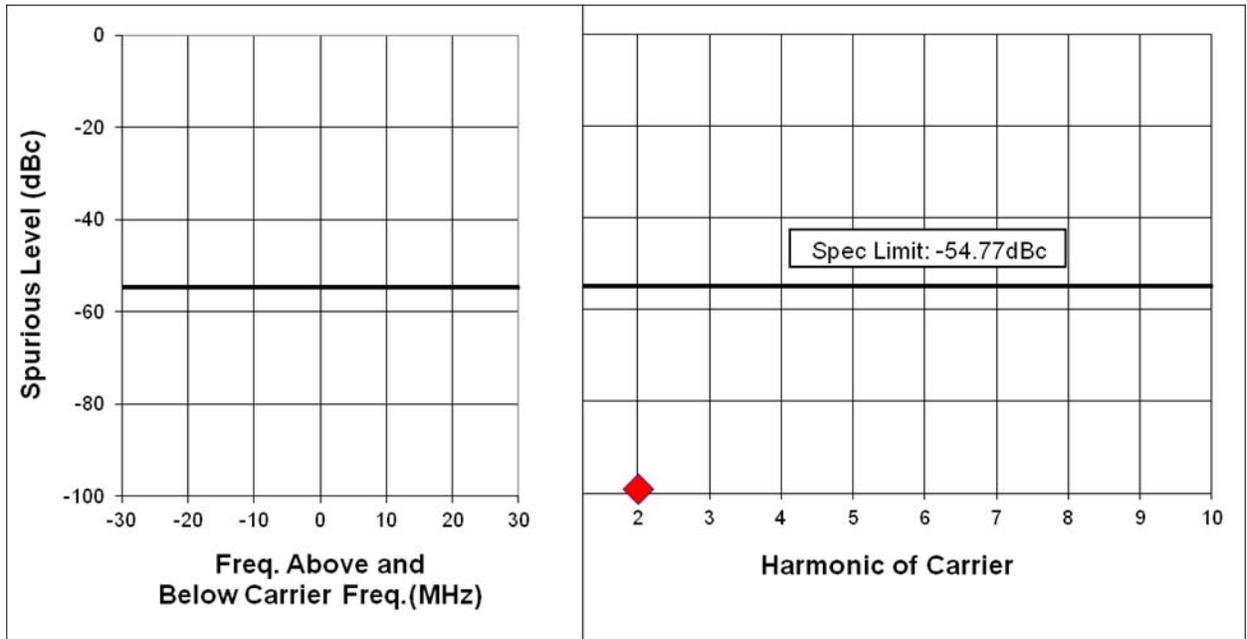


Exhibit 6H-4

938.0125 MHz, 12.5 kHz Channel Spacing, 3.0Watts

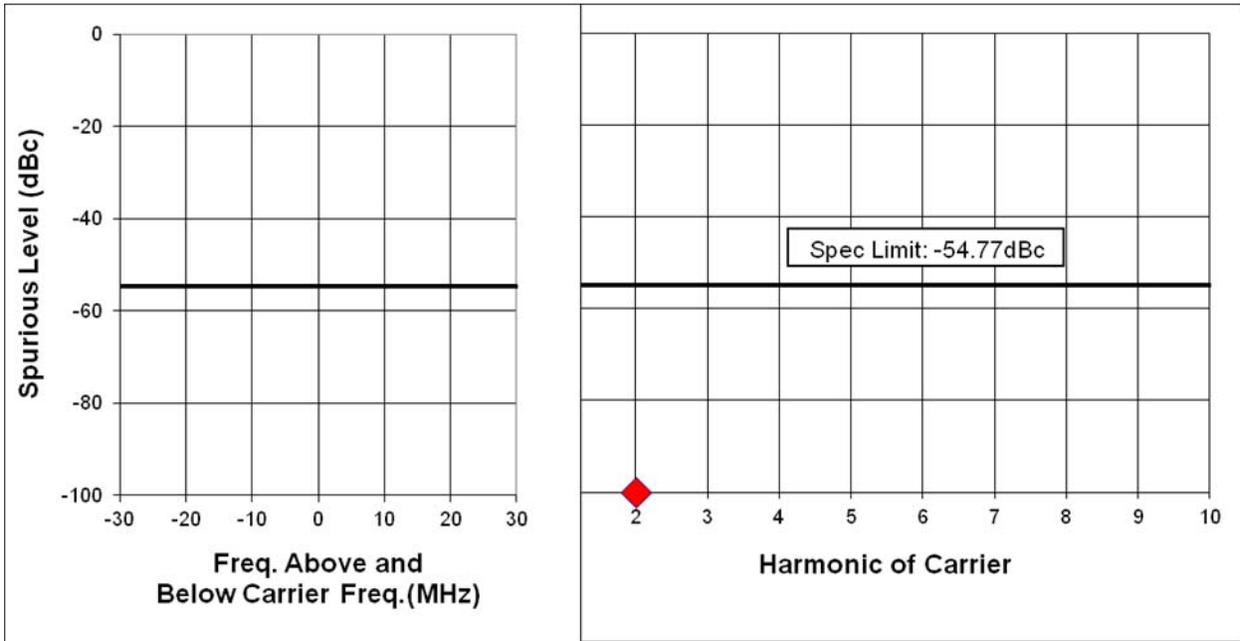


Exhibit 6H-5

940.9875 MHz, 12.5 kHz Channel Spacing, 3.0Watts

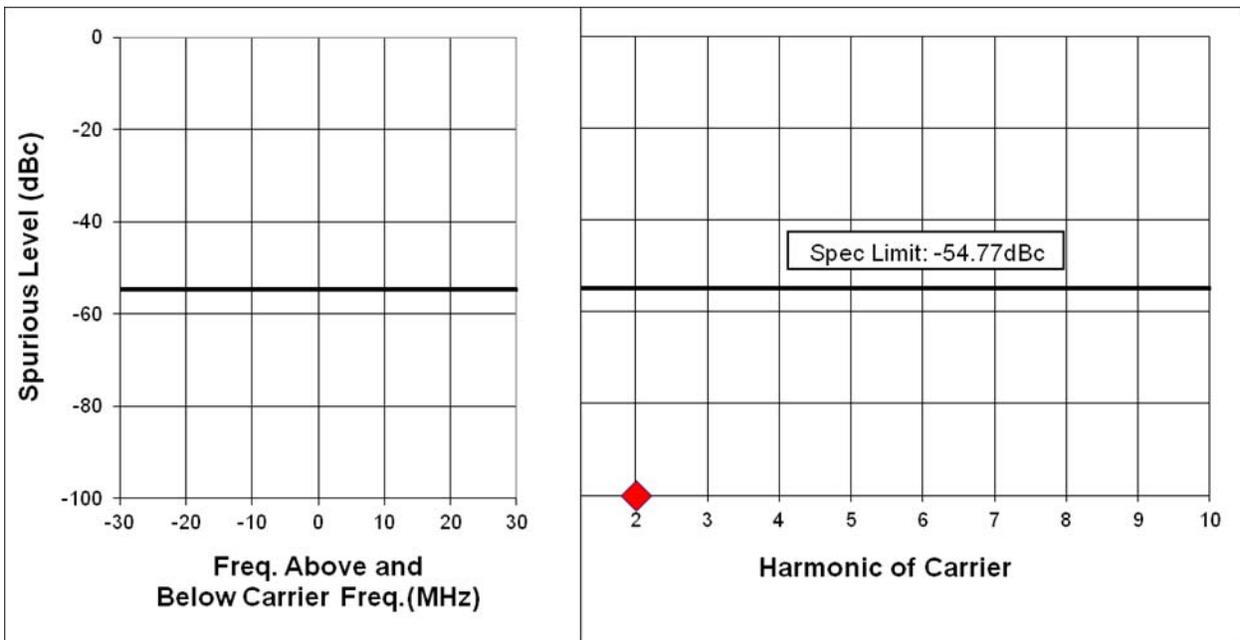


Exhibit 6H-6