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- 6F-1 – 54 Watts, 138.0125 MHz, Analog 25 kHz Channel Spacing (Not for FCC Review)
- 6F-2 – 54 Watts, 158.55 MHz, Analog 25 kHz Channel Spacing (Part 22, 80)
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- 6F-5 – 25 Watts, 158.55 MHz, Analog 25 kHz Channel Spacing (Part 22, 80)
- 6F-6 – 25 Watts, 161.7 MHz, Analog 25 kHz Channel Spacing (Part 74)
  
- 6F-7 – 54 Watts, 138.0125 MHz Digital 12.5 kHz Channel Spacing (Not for FCC Review)
- 6F-8 – 54 Watts, 158.55 MHz, Digital 12.5 kHz Channel Spacing
- 6F-9 – 54 Watts, 161.7 MHz, Digital 12.5 kHz Channel Spacing
- 6F-10 – 54 Watts, 173.3875 MHz, Digital 12.5 kHz Channel Spacing
- 6F-11 – 25 Watts, 158.55 MHz, Digital 12.5 kHz Channel Spacing
- 6F-12 – 25 Watts, 161.7 MHz, Digital 12.5 kHz Channel Spacing

**EXHIBIT 6G – Radiated Spurious Emissions**

- 6G-1 – 54 Watts, 138.0125 MHz, Analog 25 kHz Channel Spacing (Not for FCC Review)
- 6G-2 – 54 Watts, 158.55 MHz, Analog 25 kHz Channel Spacing (Part 22, 80)
- 6G-3 – 54 Watts, 161.7 MHz, Analog 25 kHz Channel Spacing (Part 74)
- 6G-4 – 54 Watts, 173.3875 MHz, Analog 25 kHz Channel Spacing (Not for FCC Review)
- 6G-5 – 25 Watts, 158.55 MHz, Analog 25 kHz Channel Spacing (Part 22, 80)
- 6G-9 – 25 Watts, 161.7 MHz, Analog 25 kHz Channel Spacing (Part 74)
  
- 6G-7 – 54 Watts, 138.0125 MHz Digital 12.5 kHz Channel Spacing (Not for FCC Review)
- 6G-8 – 54 Watts, 158.55 MHz, Digital 12.5 kHz Channel Spacing
- 6G-9 – 54 Watts, 161.7 MHz, Digital 12.5 kHz Channel Spacing
- 6G-10 – 54 Watts, 173.3875 MHz, Digital 12.5 kHz Channel Spacing
- 6G-11 – 25 Watts, 158.55 MHz, Digital 12.5 kHz Channel Spacing
- 6G-12 – 25 Watts, 161.7 MHz, Digital 12.5 kHz Channel Spacing

**EXHIBIT 6H – Frequency Stability**

- 6H-1 – 158.55 MHz Frequency Stability vs. Temperature
- 6H-2 – 158.55 MHz Frequency Stability vs. Voltage

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- 6I-1 – 158.55 MHz, 12.5 kHz Channel Spacing Key-Up Attack Time
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- 6I-3 – 158.55 MHz, 25 kHz Channel Spacing Key-Up Attack Time (Part 22, 80)
- 6I-4 – 158.55 MHz, 25 kHz Channel Spacing De-Key Decay Time (Part 22, 80)

**\*\* Please note that the above data were taken following the procedures and limits outlined in TIA 603-D and RSS 119 during the month of September 2015. See Table 2 in Ex07\_test\_procedures**

**Radio model tested: AAM28JQN9RA1AN**

**Important Note: The data in this test report meets or exceeds the technical requirements of FCC Rule Parts 22, 74, 80 and 90.**

**EXHIBIT 6A – RF POWER OUTPUT**

**HIGH POWER SETTING, FREQUENCY 138.0125 MHz (Not for FCC Review)**

Measured RF Output Power:	53.4	Watts
Measured DC Voltage:	13.2	Volts
Measured DC Input Current:	8.45	Amperes

**LOW POWER SETTING, FREQUENCY 138.0125 MHz (Not for FCC Review)**

Measured RF Output Power:	24.6	Watts
Measured DC Voltage:	13.2	Volts
Measured DC Input Current:	5.71	Amperes

**HIGH POWER SETTING, FREQUENCY 158.55 MHz**

Measured RF Output Power:	53.6	Watts
Measured DC Voltage:	13.2	Volts
Measured DC Input Current:	8.56	Amperes

**HIGH POWER SETTING, FREQUENCY 158.55 MHz (Part 80)**

Measured RF Output Power:	49.2	Watts
Measured DC Voltage:	13.2	Volts
Measured DC Input Current:	8.44	Amperes

**LOW POWER SETTING, FREQUENCY 158.55 MHz**

Measured RF Output Power:	24.5	Watts
Measured DC Voltage:	13.2	Volts
Measured DC Input Current:	5.91	Amperes

**HIGH POWER SETTING, FREQUENCY 161.7 MHz**

Measured RF Output Power:	53.5	Watts
Measured DC Voltage:	13.2	Volts
Measured DC Input Current:	8.4	Amperes

**LOW POWER SETTING, FREQUENCY 161.7 MHz**

Measured RF Output Power:	24.8	Watts
Measured DC Voltage:	13.2	Volts
Measured DC Input Current:	5.84	Amperes

**HIGH POWER SETTING, FREQUENCY 173.3875 MHz**

Measured RF Output Power:	53.6	Watts
Measured DC Voltage:	13.2	Volts
Measured DC Input Current:	8.9	Amperes

**LOW POWER SETTING, FREQUENCY 173.3875 MHz**

Measured RF Output Power:	24.6	Watts
Measured DC Voltage:	13.2	Volts
Measured DC Input Current:	5.71	Amperes

EXHIBIT 6B – Transmit Audio Response

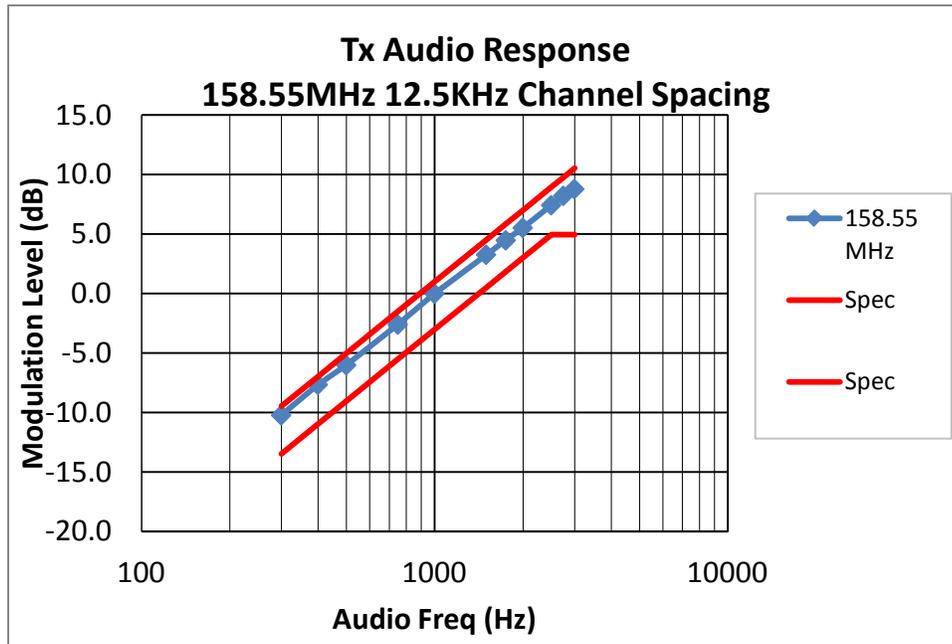


Figure 6B-1: 158.55 MHz, 12.5 kHz Channel Spacing, Transmit Audio Frequency Response

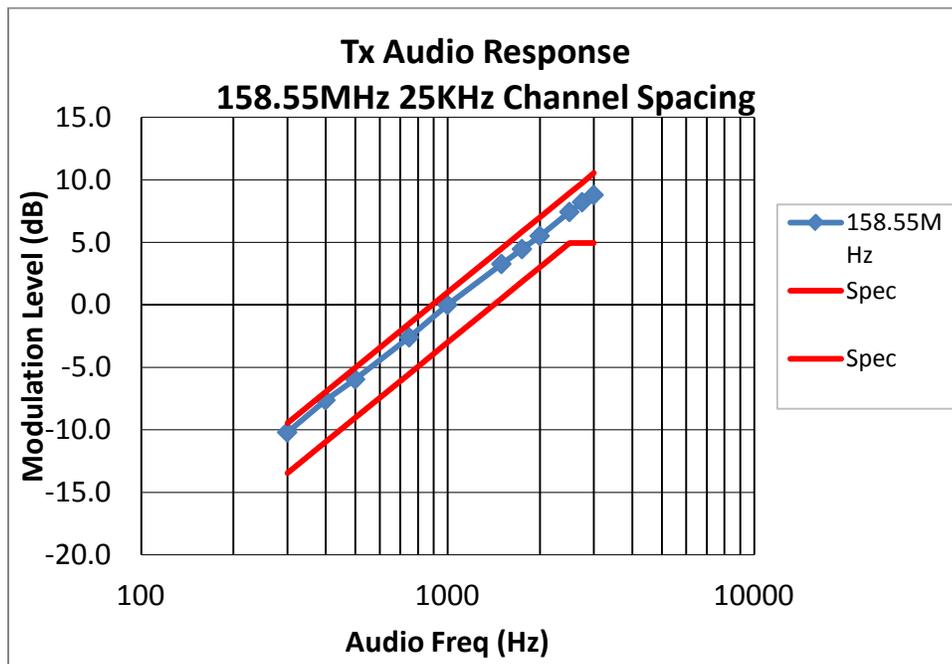
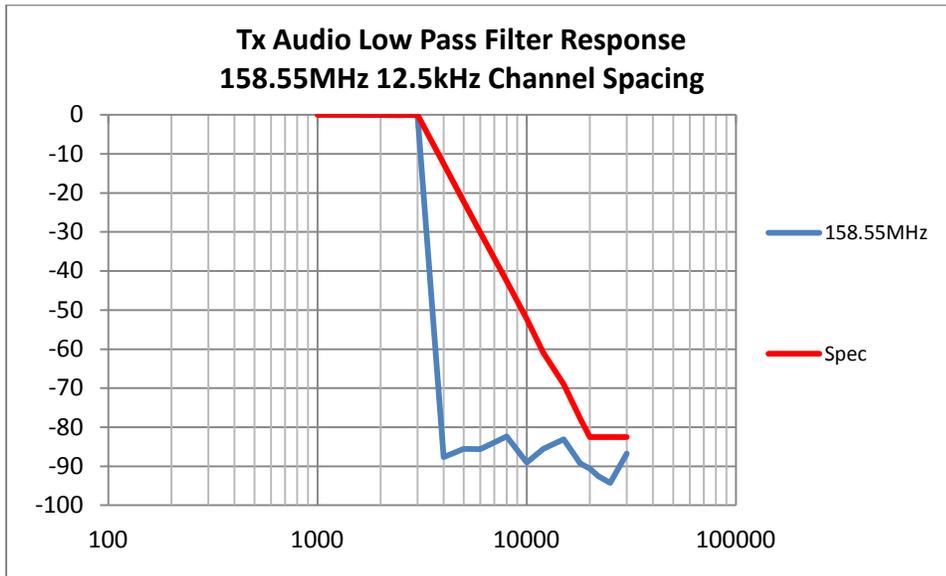
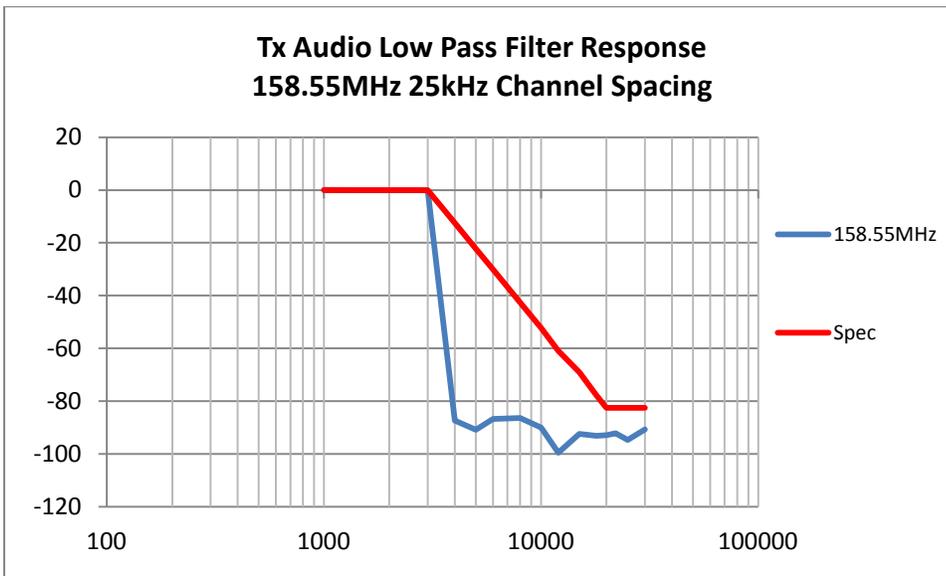


Figure 6B-2: 158.55 MHz, 25 kHz Channel Spacing, Transmit Audio Frequency Response (Part 22, 80)

**EXHIBIT 6C – Transmit Audio Post Limiter Low Pass Filter Response**

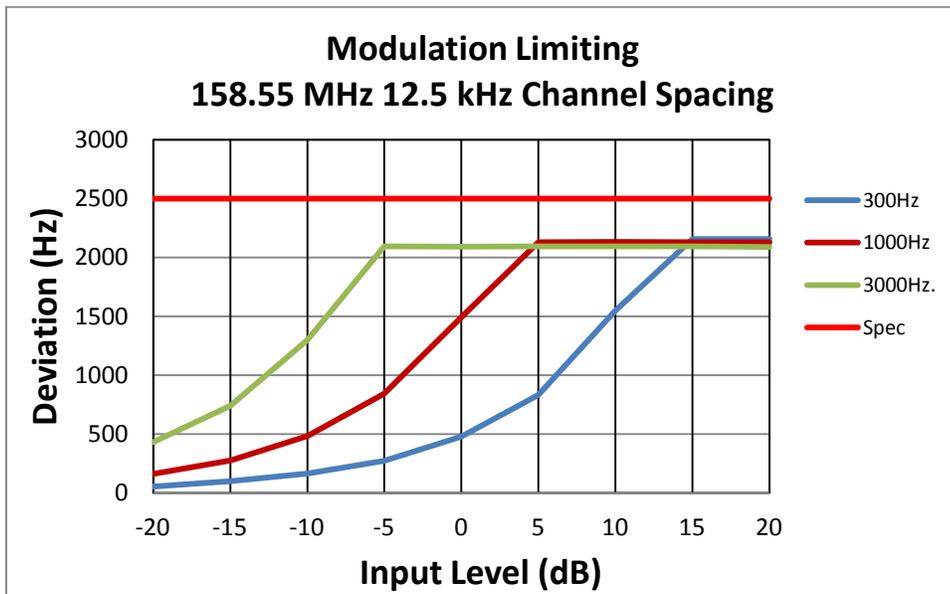


**Figure 6C-1:** 158.55 MHz, 12.5 kHz Channel Spacing, Transmit Audio Low Pass Filter Response

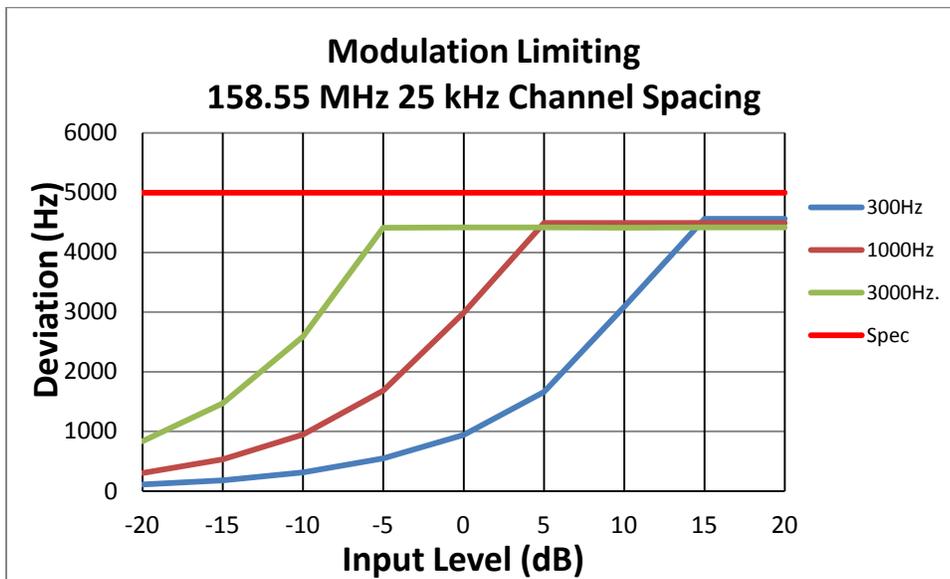


**Figure 6C-2:** 158.55 MHz, 25 kHz Channel Spacing, Transmit Audio Low Pass Filter Response (Part 22, 80)

**EXHIBIT 6D – Modulation Limiting Characteristic**



**Figure 6D-1:** 158.55 MHz, 12.5 KHz Channel Spacing, Modulation Limiting



**Figure 6D-2:** 158.55 MHz, 25 KHz Channel Spacing, Modulation Limiting (Part 22, 80)

**EXHIBIT 6E – Modulation Techniques**

The transmitter is capable of the following types of modulation:

- i) Modulation of PL (Private Line) – Direct FM tone modulation of 67 Hz to 250.3 Hz at 15% of full system deviation. Also referred to as TPL (Tone Private Line).
- ii) Modulation of DPL (Digital Private Line) – Direct FM modulation at 134 bps at 15% of full system deviation.
- iii) Modulation of 2000/3000 Hz FSK Data – FM modulation at nominally 60% of full system deviation.
- iv) Modulation of DTMF (Dual Tone Multi Frequency) – FM modulation at nominally 60% of full system deviation
- v) Modulation of 9600 bps 4 level FSK Data

Standard Audio Modulation (25 kHz Channelization, Analog Voice)

Per CFR Title 47, Part 2, Section 2.201, the Carson's Rule calculation for necessary bandwidth,  $BW = 2M + 2DK$ , where M = maximum modulating frequency in Hz, D = peak deviation in Hz, and K=1, is as follows:

In this case the maximum modulating frequency is 3.0 kHz with a 5.0 kHz deviation.

$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 5.0 \text{ kHz}) = 16 \text{ kHz}$  (**16K0** designator)

Per CFR Title 47, Part 2, Section 2.201:

Frequency Modulation .....	<b>F</b>
A single channel containing analogue information .....	<b>3</b>
Telephony (including sound broadcasting) .....	<b>E</b>

The complete emissions designator for this transmitter is **16K0F3E**.

Standard Audio Modulation (12.5 kHz Channelization, Analog Voice)

Per CFR Title 47, Part 2, Section 2.201, the Carson's Rule calculation for necessary bandwidth,  $BW = 2M + 2DK$ , where M = maximum modulating frequency in Hz, D = peak deviation in Hz, and K=1, is as follows:

In this case the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz}$  (**11K0** designator)

Per CFR Title 47, Part 2, Section 2.201:

Frequency Modulation .....	<b>F</b>
A single channel containing analogue information .....	<b>3</b>
Telephony (including sound broadcasting).....	<b>E</b>

The complete emissions designator for this transmitter is **11K0F3E**.

4 Level FSK Digital Modulation Techniques

The modulation sends 4800 symbols/sec with each symbol conveying 2 bits of information for a data rate of 9600 bps in a 12.5 kHz channel, which is equivalent to 4800 bps per 6.25kHz. The maximum deviation  $D$ , of the symbol is defined as:

$$D = 3h / 2T$$

where:

$h$  is the deviation index defined for the modulation

$T$  is the symbol time (1/4800) in seconds

The deviation index,  $h$ , is 0.27. This yields a symbol deviation of 1.944 kHz at the symbol center. The mapping between symbols and bits is shown below:

Information Bits		Symbol	4FSK Deviation
Bit 1	Bit 0		
0	1	+3	+1.944 kHz
0	0	+1	+0.648 kHz
1	0	-1	-0.648 kHz
1	1	-3	-1.944 kHz

A Square Root Raised Cosine Filter is implemented for the modulation low pass filter. The input to the modulation low pass filter consists of a series of impulses separated in time by 208.33 microseconds (1/4800 sec). The group delay of the filter is flat over the passband for  $|f| < 2880$  Hz. The magnitude response of the filter is given by the following formula.

$|F(f)|$  = magnitude response of the Square Root Raised Cosine Filter

$|F(f)| = 1$  for  $|f| \leq 1920$  Hz

$|F(f)| = |\cos(\pi f / 1920)|$  for  $1920 \text{ Hz} < |f| < 2880 \text{ Hz}$

$|F(f)| = 0$  for  $|f| > 2880$  Hz

where  $f$  = frequency in hertz.

The 4FSK modulator consists of a Square Root Raised Cosine Filter, cascaded with a frequency modulator.



4 Level FSK Digital Modulation (12.5 kHz Channelization, Digital Data)

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore, the 99% energy rule (Title 47 CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (**7K60** designator).

Per CFR Title 47, Part 2, Section 2.201:

- Frequency Modulation ..... **F**
- A single channel containing quantized or digital information without the use of a modulating sub-carrier, excluding time-division multiplex ..... **1**
- Data Transmission, telemetry, telecommand ..... **D**

Note: This product utilizes a Time Division Multiple Access (TDMA) protocol.

The complete emissions designator for this transmitter is **7K60F1D**.

4 Level FSK Digital Modulation (12.5 kHz Channelization, Digital Voice)

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore the 99% energy rule (title 47CFR2.989)

was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (**7K60** designator).

Per CFR Title 47, Part 2, Section 2.201:

- Frequency Modulation ..... **F**
- A single channel containing quantized or digital information without the use of a modulating sub-carrier, excluding time-division multiplex ..... **1**
- Telephony (including sound broadcasting) ..... **E**

Note: This product utilizes a Time Division Multiple Access (TDMA) protocol.

The complete emissions designator for this transmitter is **7K60F1E**.

4 Level FSK Digital Modulation (12.5 kHz Channelization, Digital Voice and Data)

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore the 99% energy rule (title 47CFR2.989) was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (**7K60** designator).

Per CFR Title 47, Part 2, Section 2.201:

- Frequency Modulation ..... **F**
- A single channel containing quantized or digital information without the use of a modulating sub-carrier, excluding time-division multiplex ..... **1**
- Combination of Data Transmission, telemetry, telecommand (D), and Telephony (E)...**W**

Note: This product utilizes a Time Division Multiple Access (TDMA) protocol.

The complete emissions designator for this transmitter is **7K60F1W**.

Digital Modulation (12.5 kHz Channelization, Digital Data)

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore, the 99% energy rule (Title 47 CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (**7K60** designator).

Per CFR Title 47, Part 2, Section 2.201:

- Frequency Modulation ..... **F**
- Case not otherwise covered ..... **X**
- Data Transmission, telemetry, telecommand ..... **D**

Note: This product utilizes a Time Division Multiple Access (TDMA) protocol.

The complete emissions designator for this transmitter is **7K60FXD**.

Digital Modulation (12.5 kHz Channelization, Digital Voice)

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore the 99% energy rule (title 47CFR2.989) was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (**7K60** designator).

Per CFR Title 47, Part 2, Section 2.201:

Frequency Modulation ..... **F**  
Case not otherwise covered ..... **X**  
Telephony (including sound broadcasting) ..... **E**

Note: This product utilizes a Time Division Multiple Access (TDMA) protocol.

The complete emissions designator for this transmitter is **7K60FXE**.

### OCCUPIED BANDWIDTH MEASUREMENT

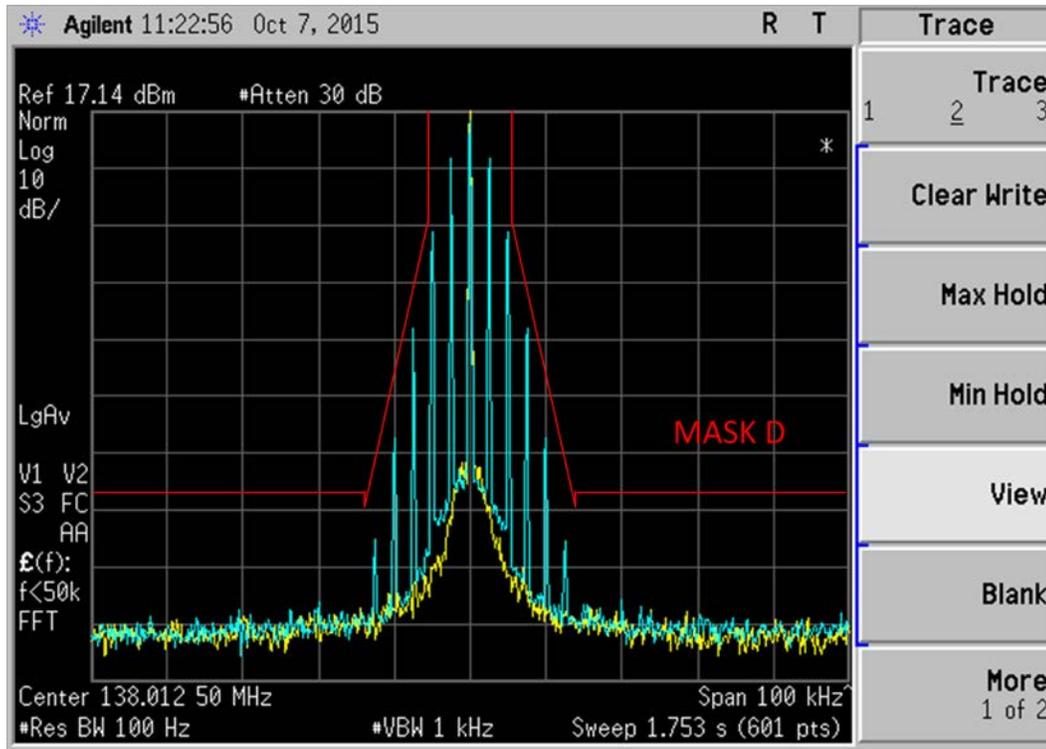


Figure 6E-1: 138.0125 MHz, 12.5 kHz Channel Spacing, 2500Hz Audio Modulation only, 11K0F3E Mask D (Not for FCC Review)

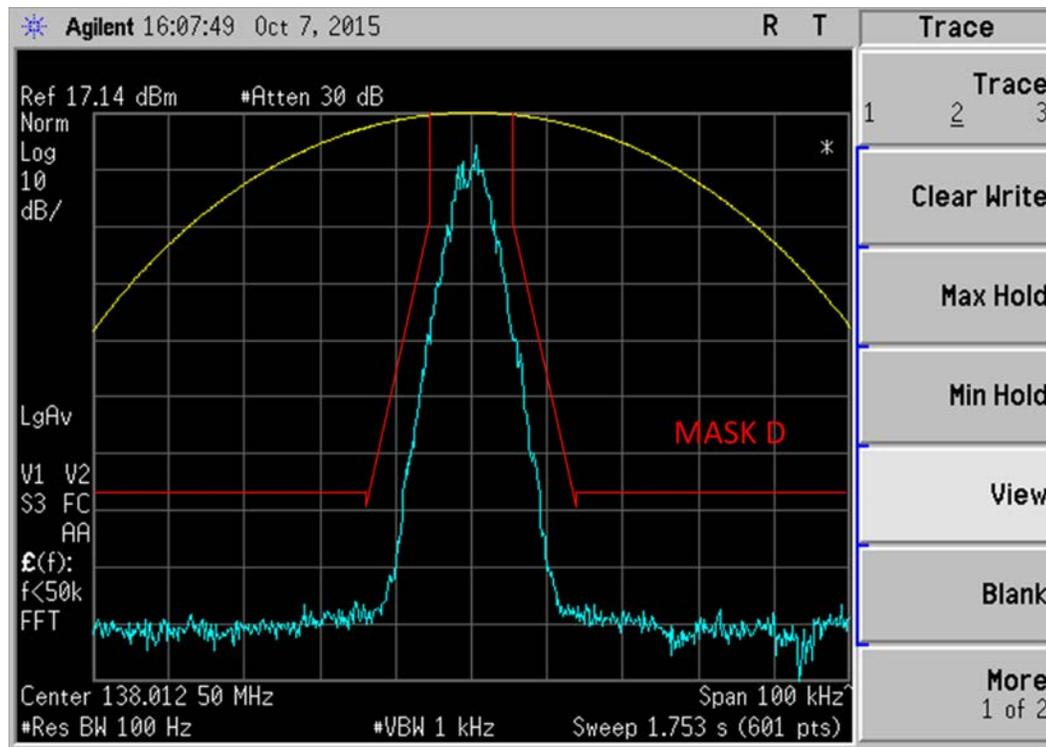


Figure 6E-2: 138.0125 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation, 7K60F1W Mask D (Not for FCC Review)

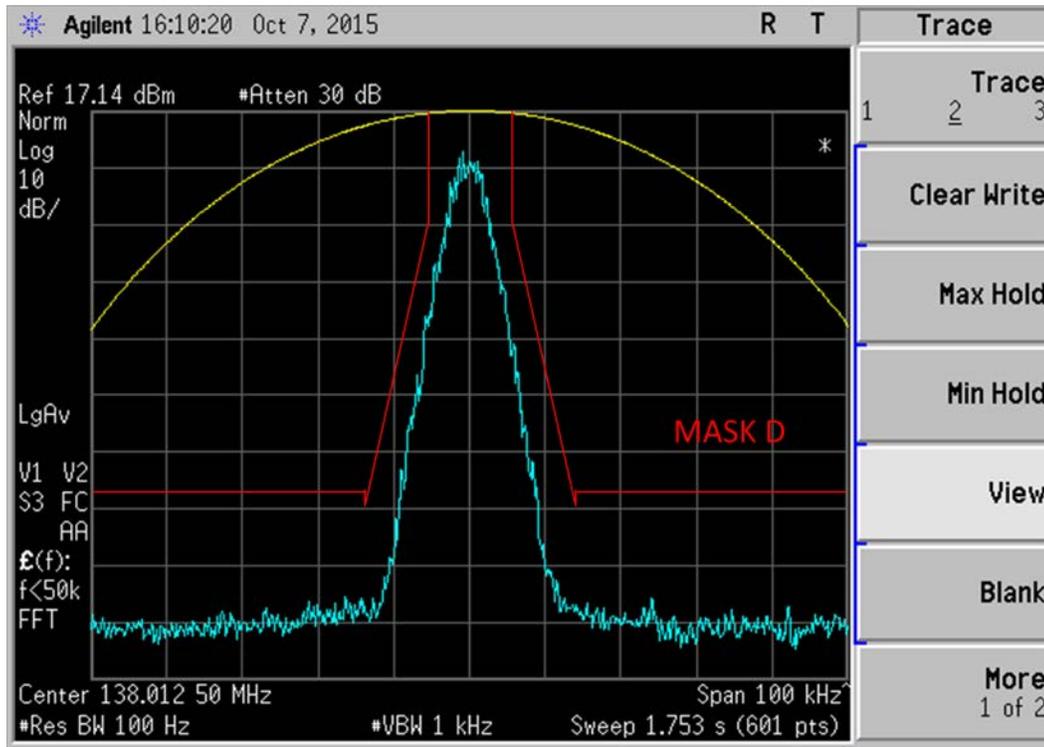


Figure 6E-3: 138.0125 MHz, O.153 Test Pattern 4FSK Data Modulation only, 7K60F1D Mask D (Not for FCC Review)

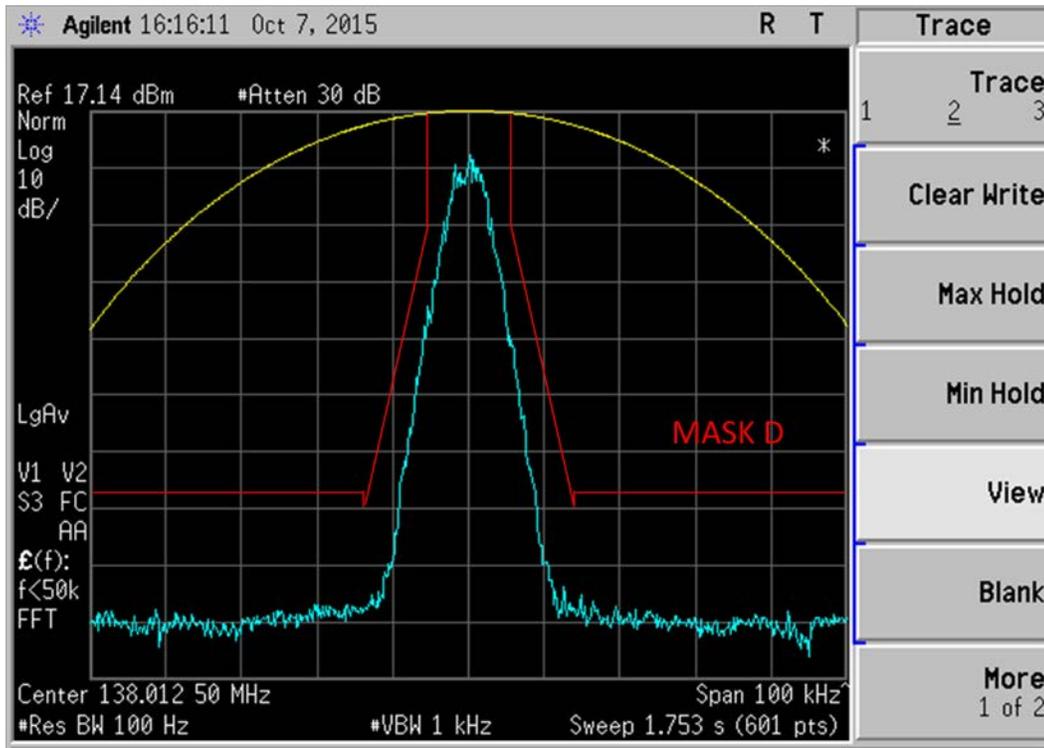


Figure 6E-4: 138.0125 MHz, O.153 Test Pattern 4FSK Voice Modulation only, 7K60F1E Mask D (Not for FCC Review)

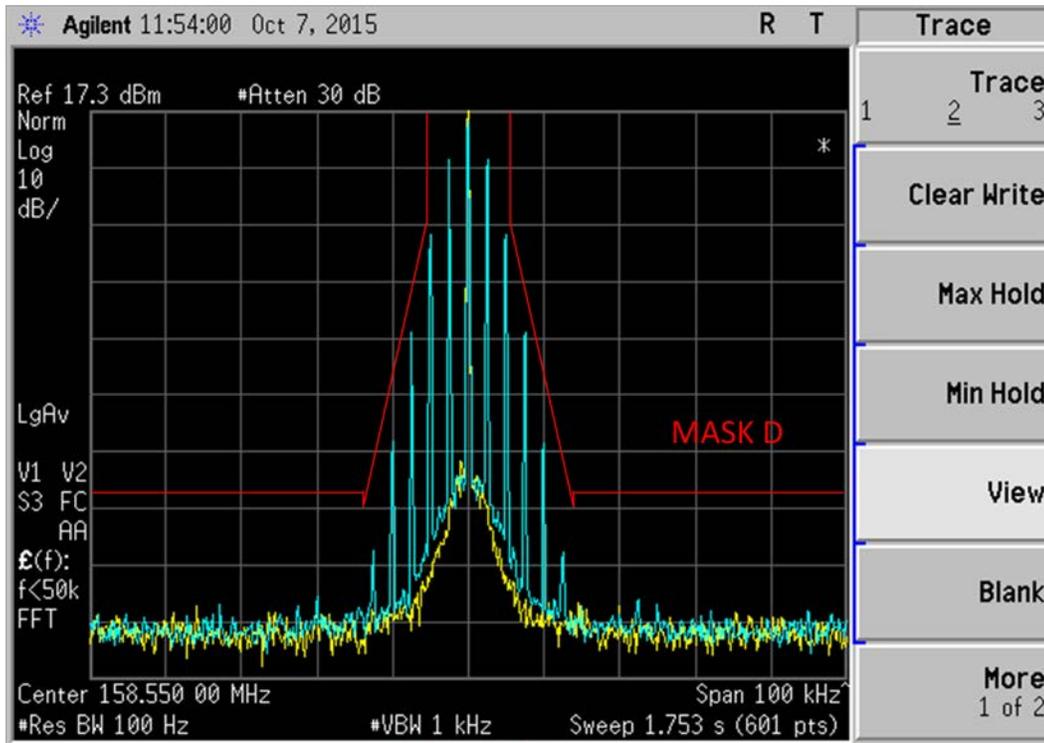


Figure 6E-5: 158.55 MHz, 12.5 kHz Channel Spacing, 2500Hz Audio Modulation only, 11K0F3E Mask D

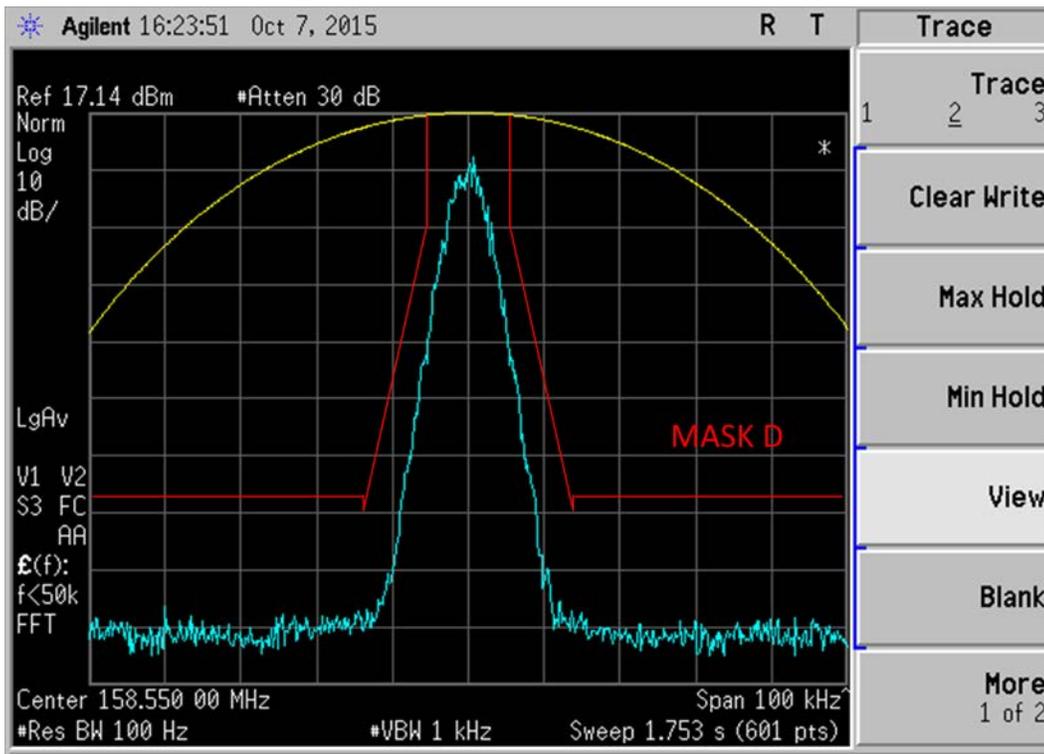


Figure 6E-6: 158.55 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation, 7K60F1W Mask D

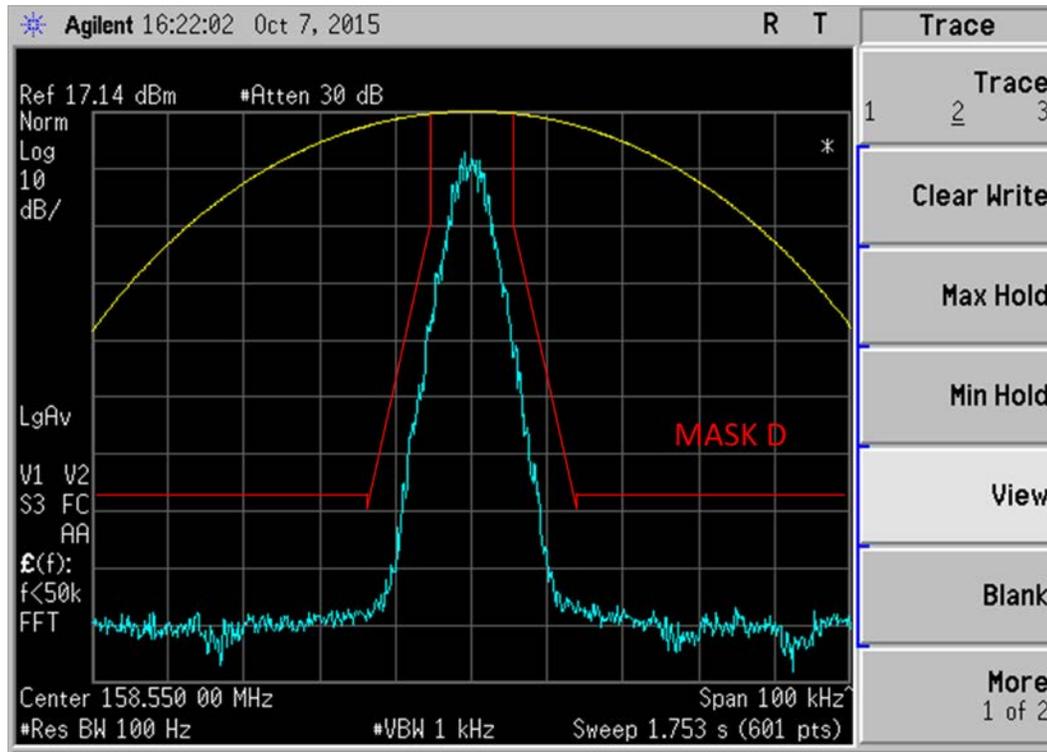


Figure 6E-7: 158.55 MHz, O.153 Test Pattern 4FSK Data Modulation only, 7K60F1D Mask D

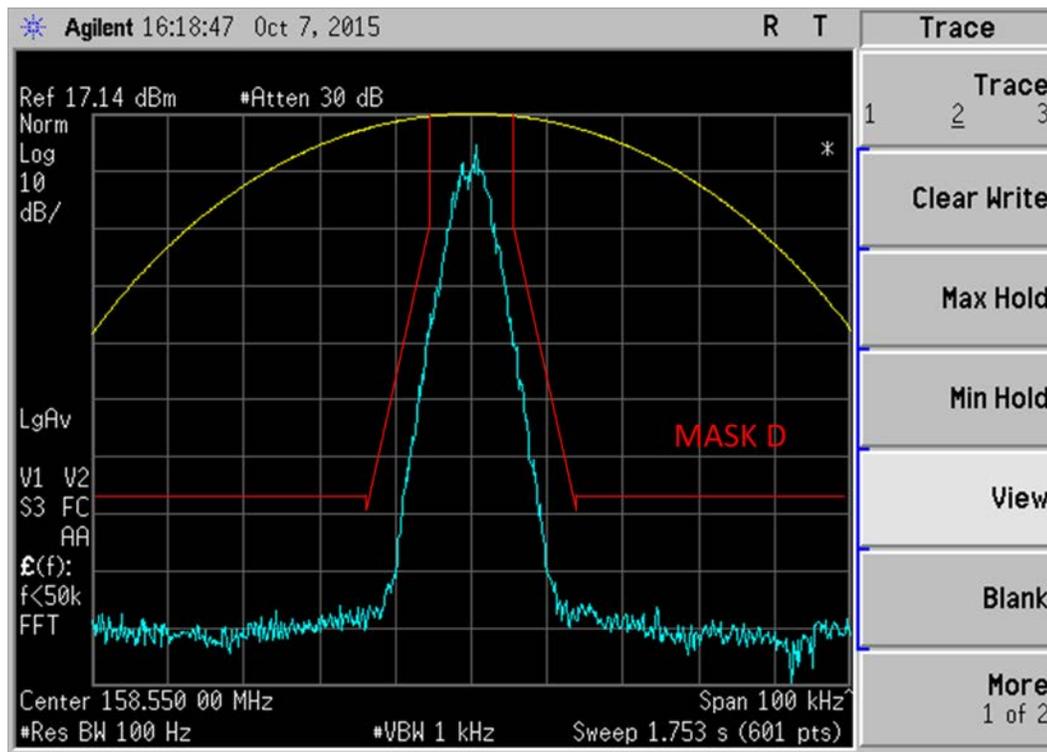


Figure 6E-8: 158.55 MHz, O.153 Test Pattern 4FSK Voice Modulation only, 7K60F1E Mask D

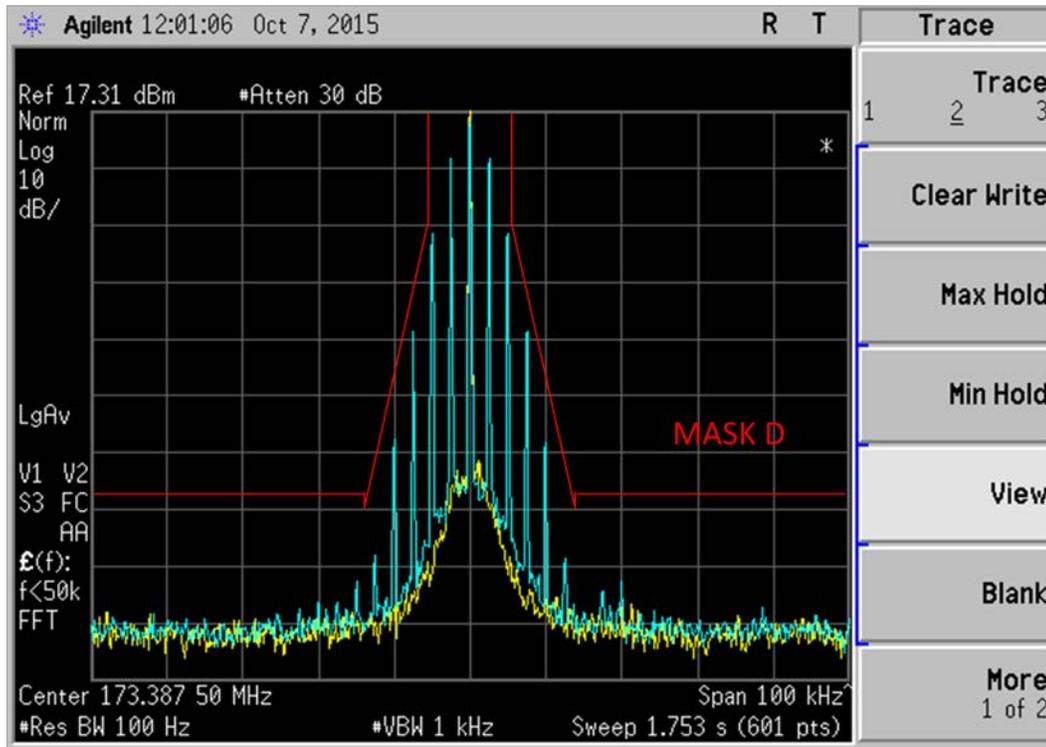


Figure 6E-9: 173.3875MHz, 12.5 kHz Channel Spacing, 2500Hz Audio Modulation only, 11K0F3E Mask D

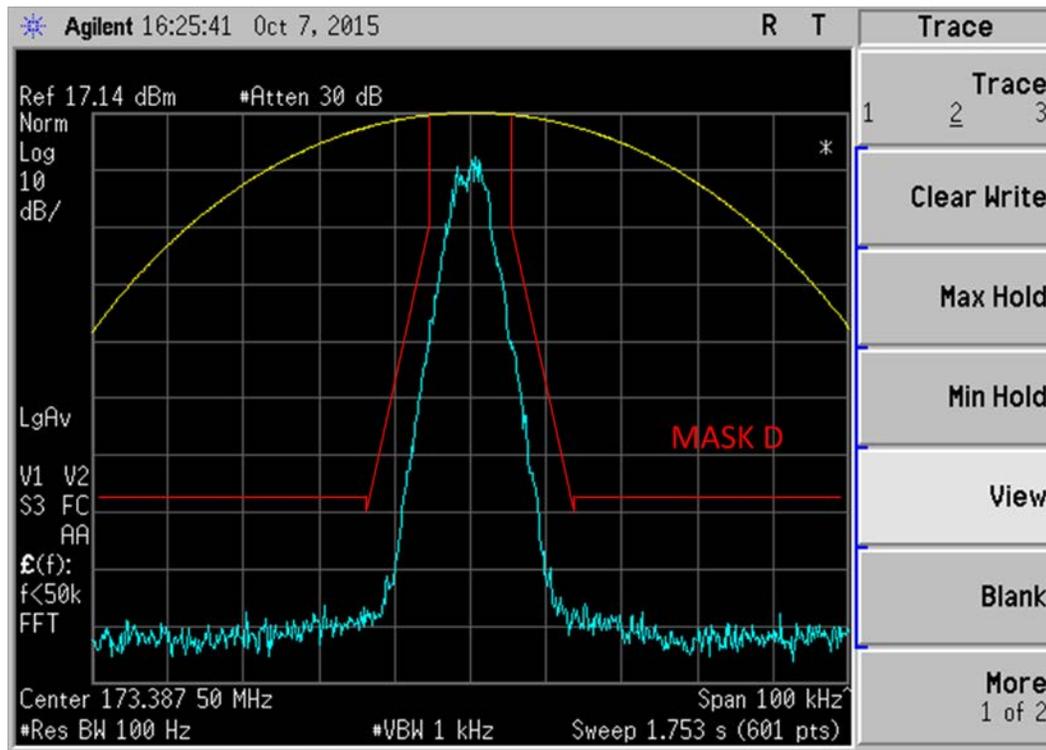


Figure 6E-10: 173.3875MHz, O.153 Test Pattern 4FSK Voice and Data Modulation, 7K60F1W Mask D

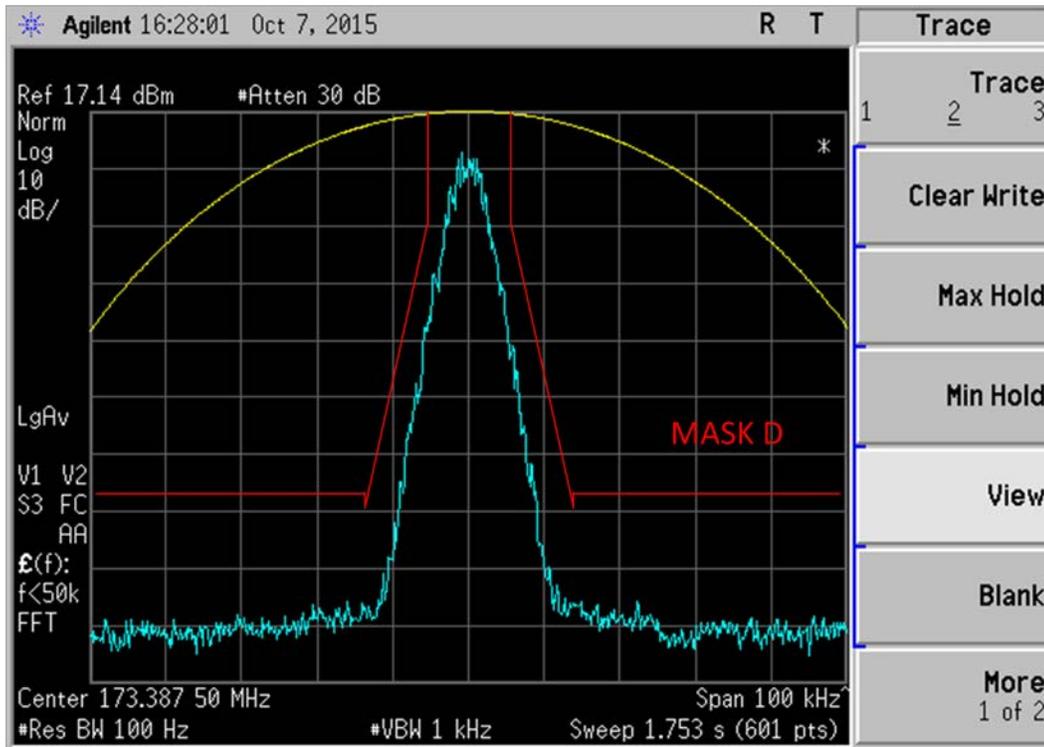


Figure 6E-11: 173.3875MHz, O.153 Test Pattern 4FSK Data Modulation only, 7K60F1D Mask D

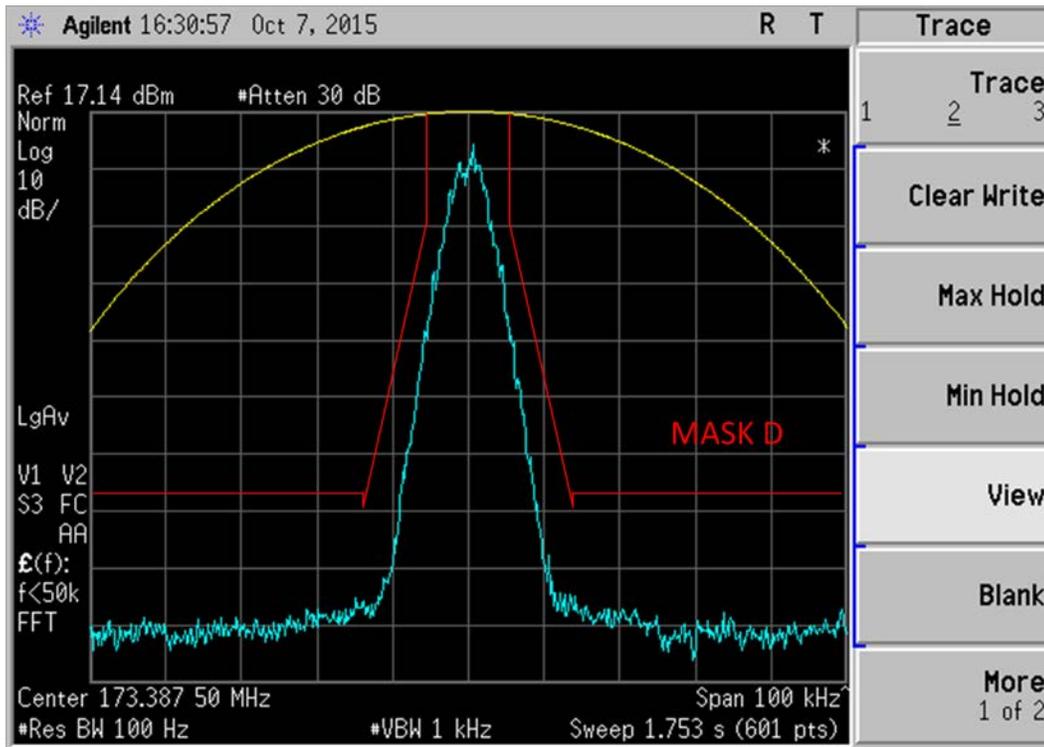


Figure 6E-12: 173.3875MHz, O.153 Test Pattern 4FSK Voice Modulation only, 7K60F1E Mask D

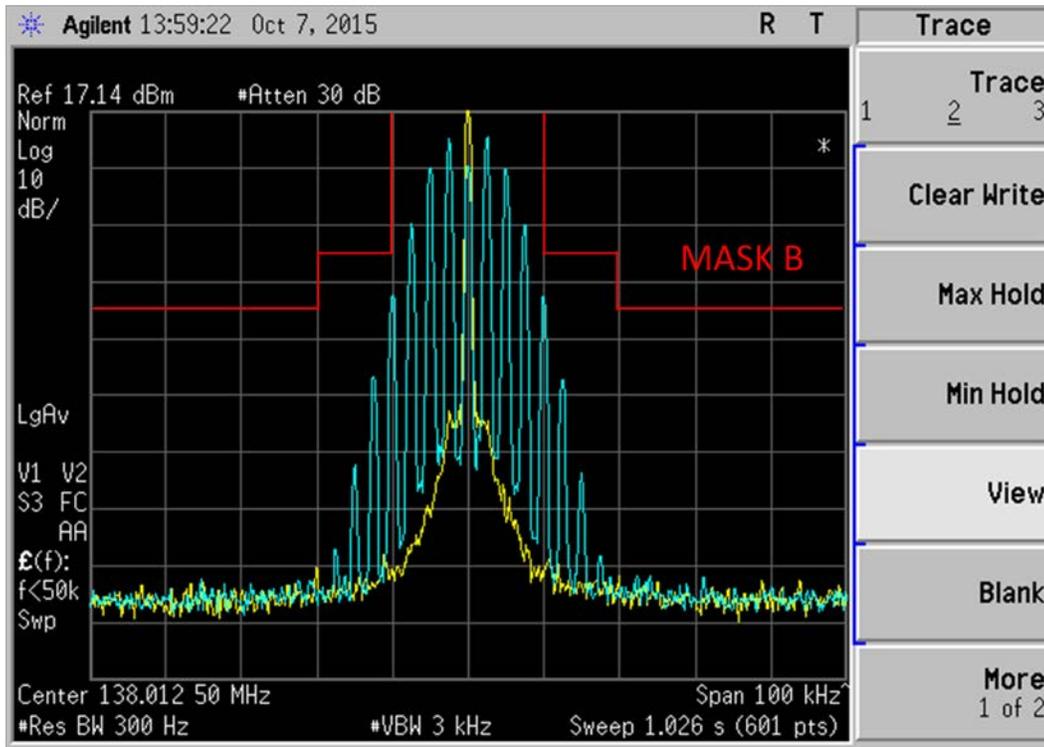


Figure 6E-13: 138.0125 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E Mask B (Not for FCC Review)

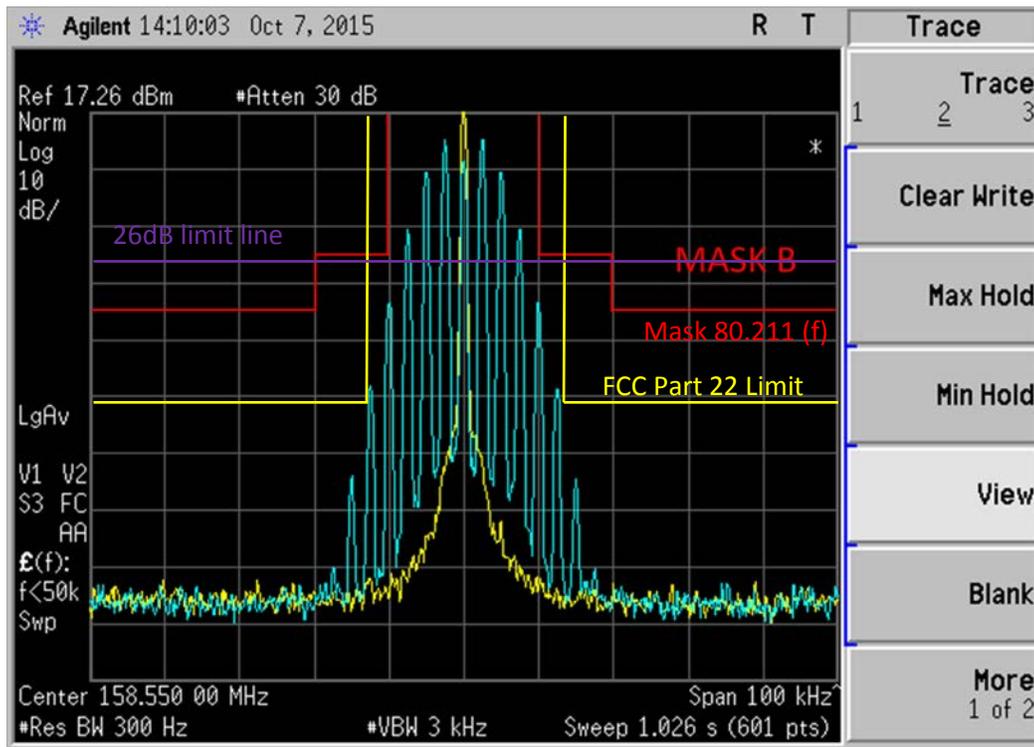


Figure 6E-14: 158.55 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E Mask B, Part 22 limit, Mask 80.211 (f) (Part 22, 80)

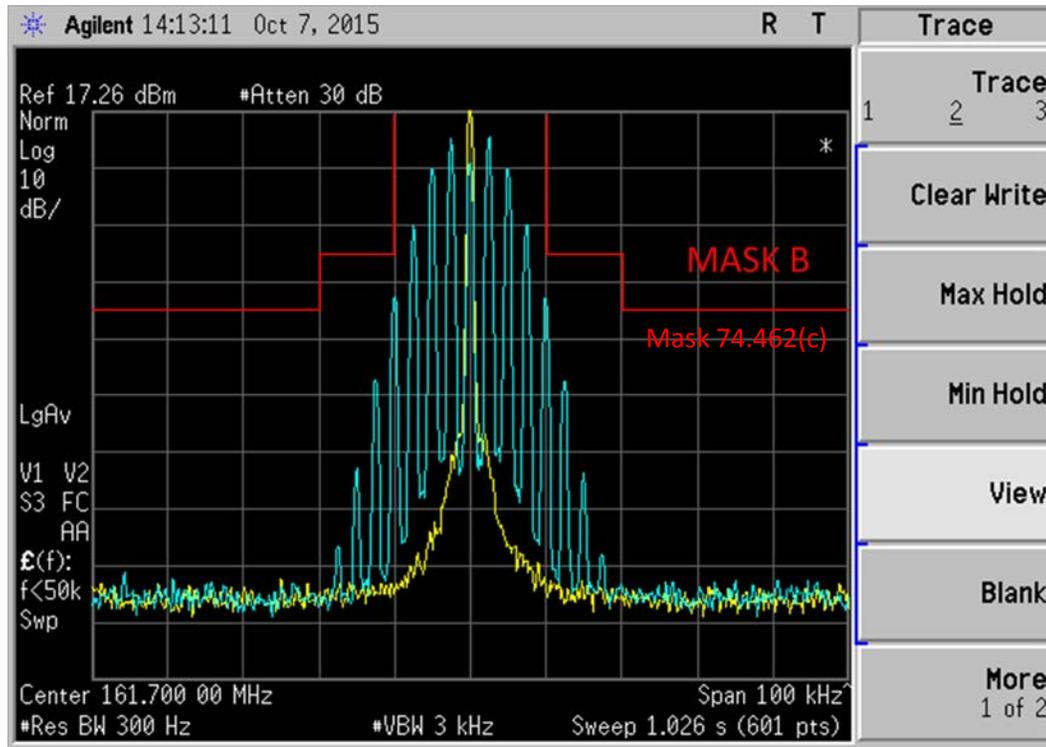


Figure 6E-15: 161.7 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E Mask B, Mask 74.462 (c) (Part 74)

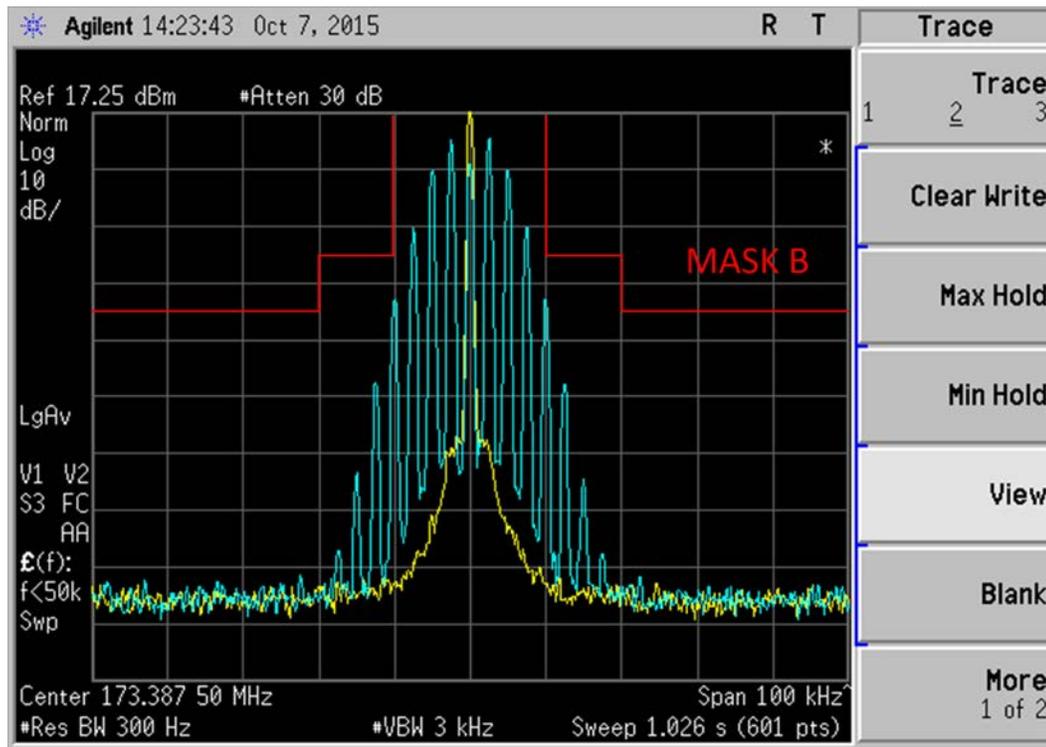


Figure 6E-16: 173.3875 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E Mask B (Not for FCC Review)

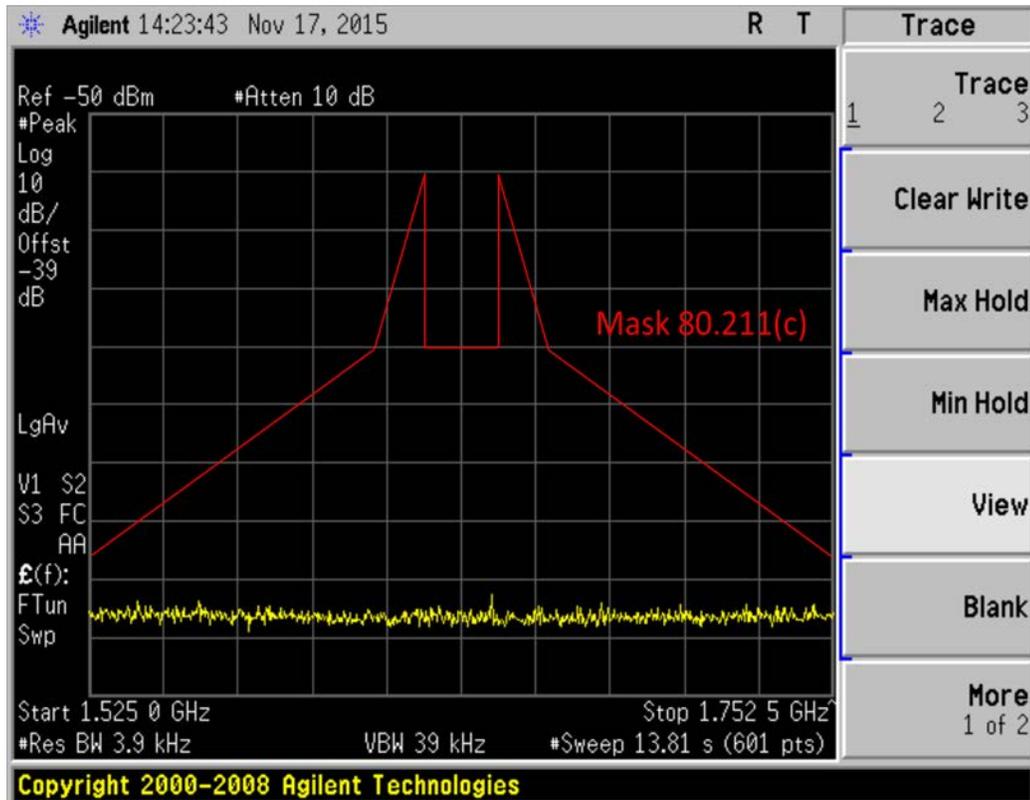


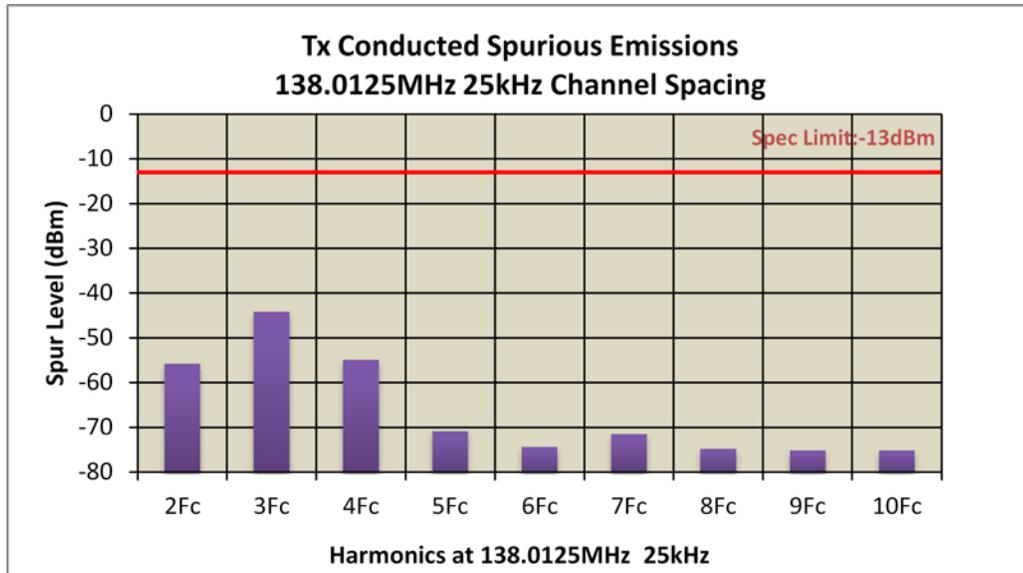
Figure 6E-17: 158.55 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E Mask 80.211 (c) (Part 80)

**\*\*NOTE:-**

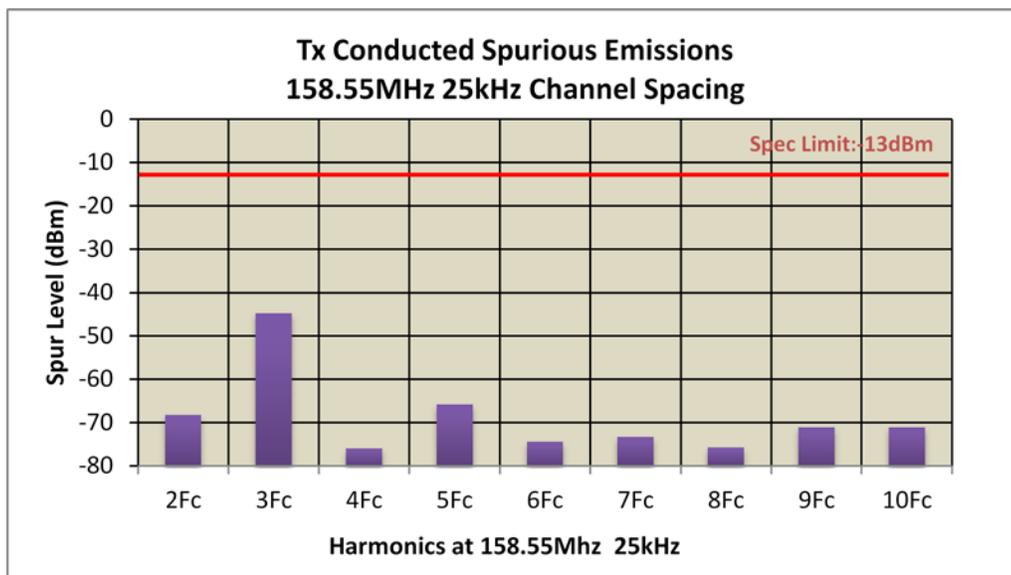
- For 4FSK Digital Modulation, 12.5 kHz Data 7K60F1D & 7K60FXD would be the same. Therefore only measurements with 7K60F1D shown above.
- For 4FSK Digital Modulation, 12.5 kHz Voice 7K60F1E & 7K60FXE would be the same. Therefore only measurements with 7K60F1E shown above.
- All measurements of Occupied 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

**EXHIBIT 6F – Transmitter Conducted Spurious Emissions**

Note: Display lines on graphs correspond to the FCC limit of – 13dBm (25 kHz) & -20dBm (12.5 kHz).



**Figure 6F-1:** 54 W Harmonic of Carrier 138.0125 MHz, Analog 25 kHz Channel Spacing (Not for FCC Review)



**Figure 6F-2:** 54 W Harmonic of Carrier 158.55 MHz, Analog 25 kHz Channel Spacing (Part 22, 80)

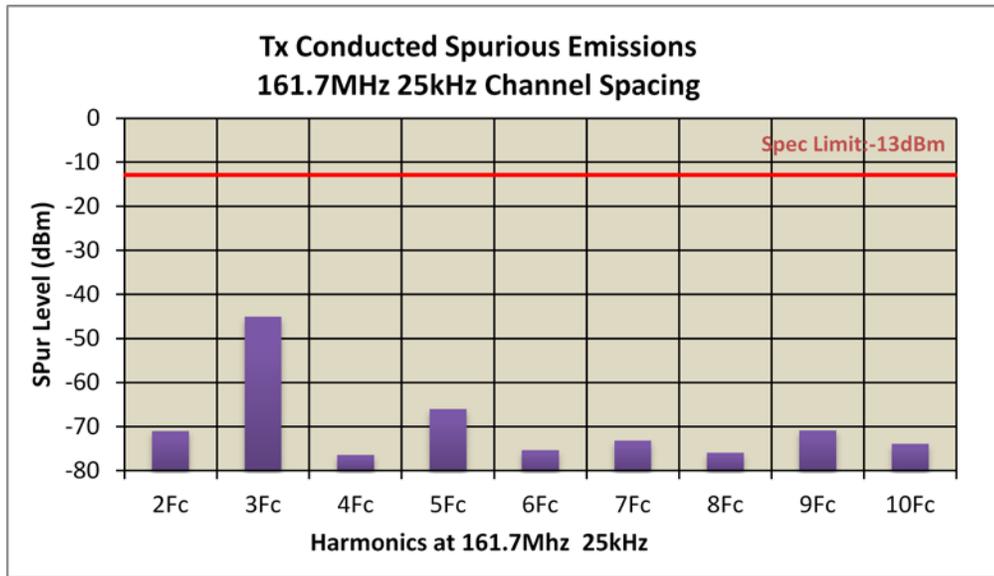


Figure 6F-3: 54 W Harmonic of Carrier 161.7 MHz, Analog 25 kHz Channel Spacing (Part 74)

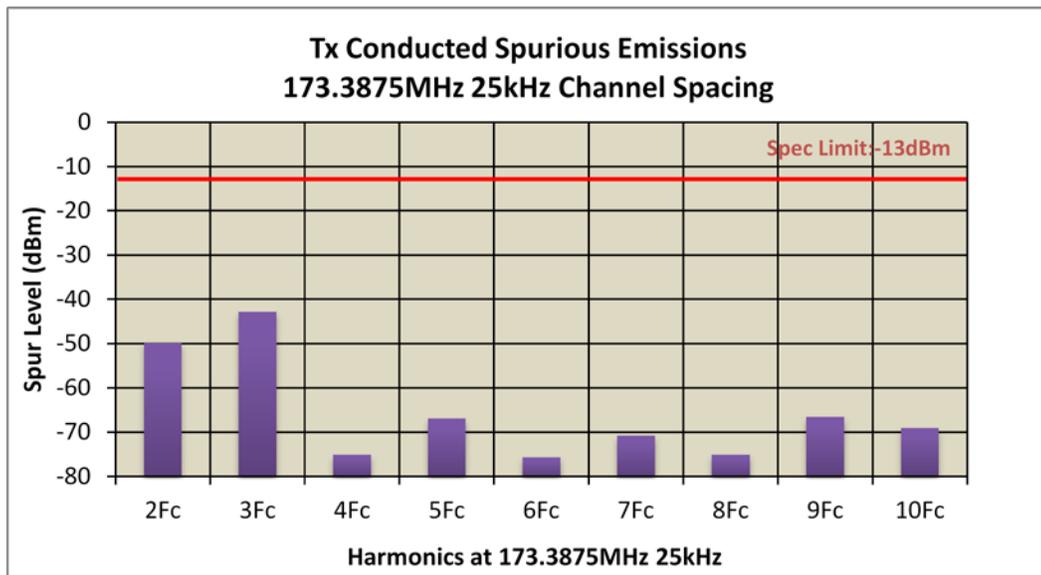


Figure 6F-4: 54 W Harmonic of Carrier 173.3875 MHz, Analog 25 kHz Channel Spacing (Not for FCC Review)

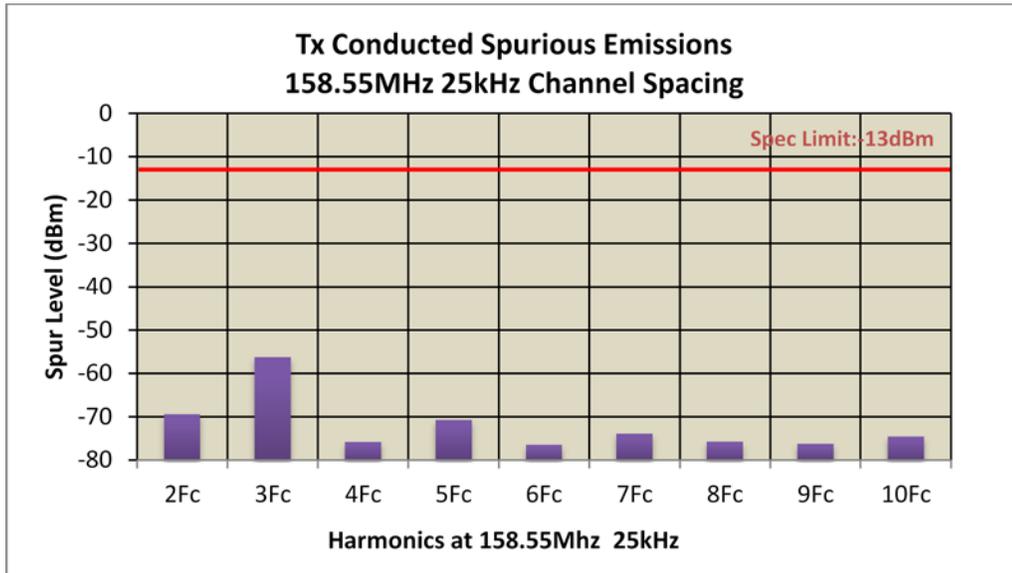


Figure 6F-5: 25W Harmonic of Carrier 158.55 MHz, Analog 25 kHz Channel Spacing (Part 22, 80)

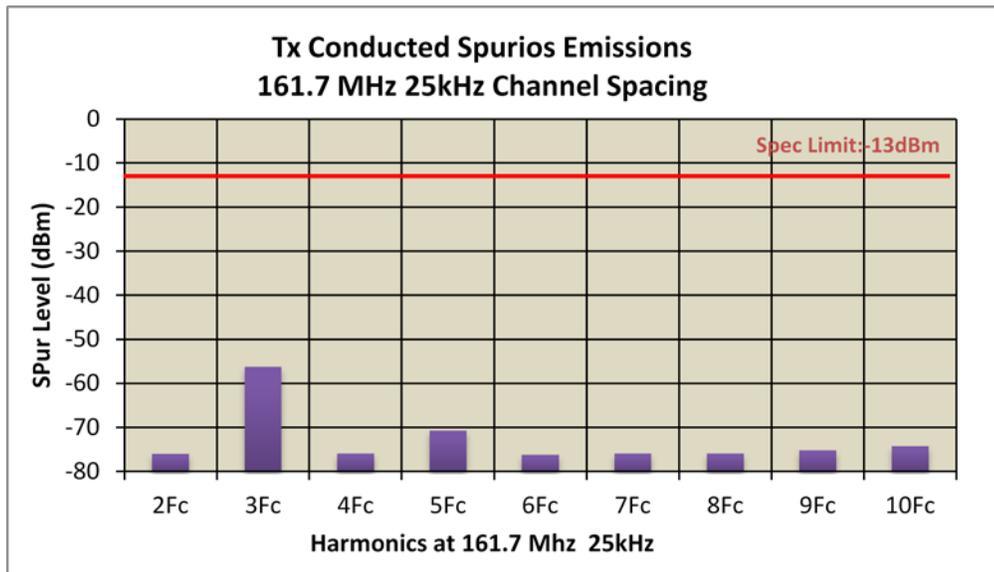


Figure 6F-6: 25W Harmonic of Carrier 161.7 MHz, Analog 25 kHz Channel Spacing (Part 74)

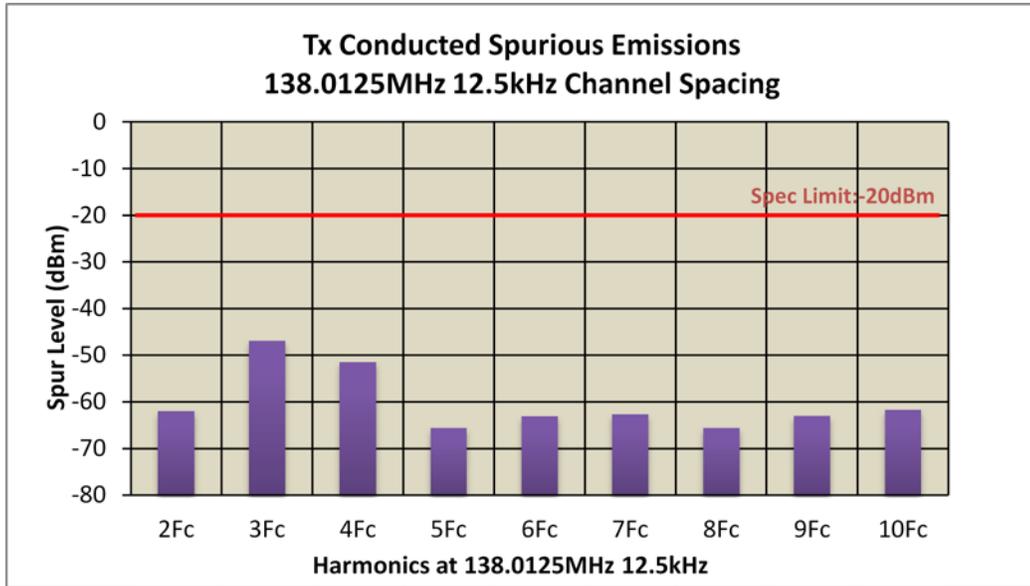


Figure 6F-7: 54 W Harmonic of Carrier 138.0125 MHz, Digital 12.5 kHz Channel Spacing (Not for FCC Review)

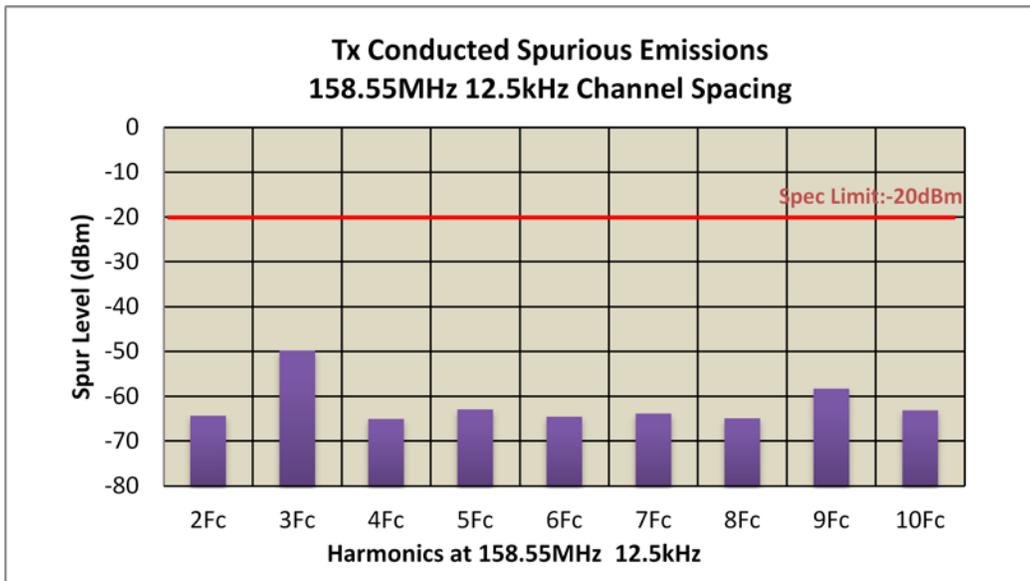


Figure 6F-8: 54 W Harmonic of Carrier 158.55 MHz, Digital 12.5 kHz Channel Spacing

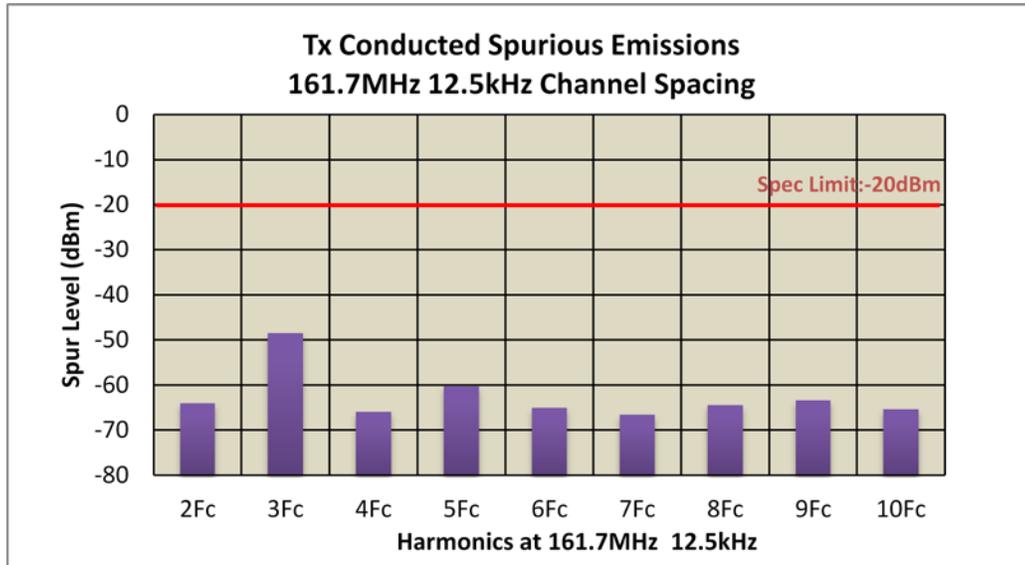


Figure 6F-9: 54 W Harmonic of Carrier 161.7 MHz, Digital 12.5 kHz Channel Spacing

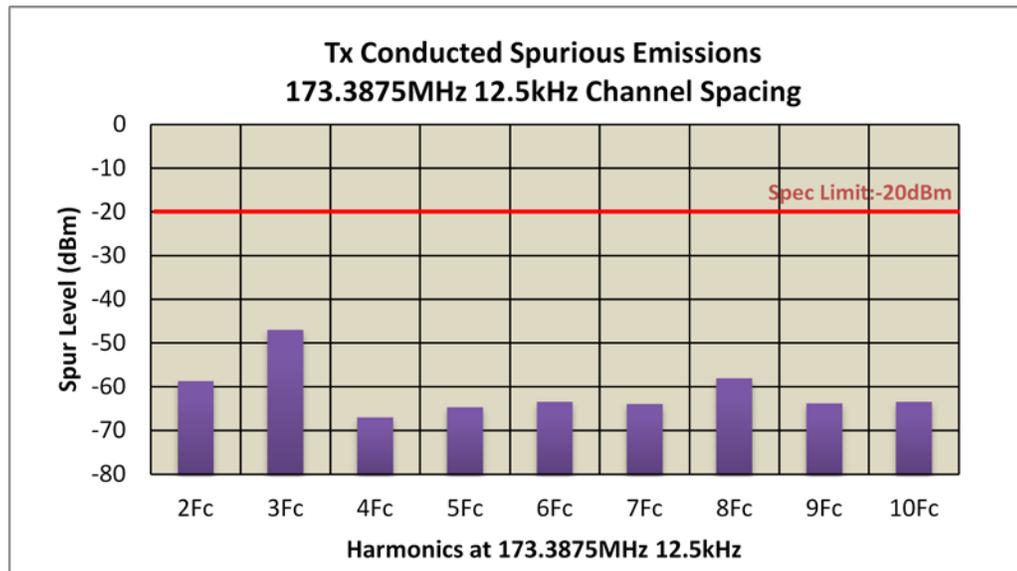


Figure 6F-10: 54 W Harmonic of Carrier 173.3875 MHz, Digital 12.5 kHz Channel Spacing

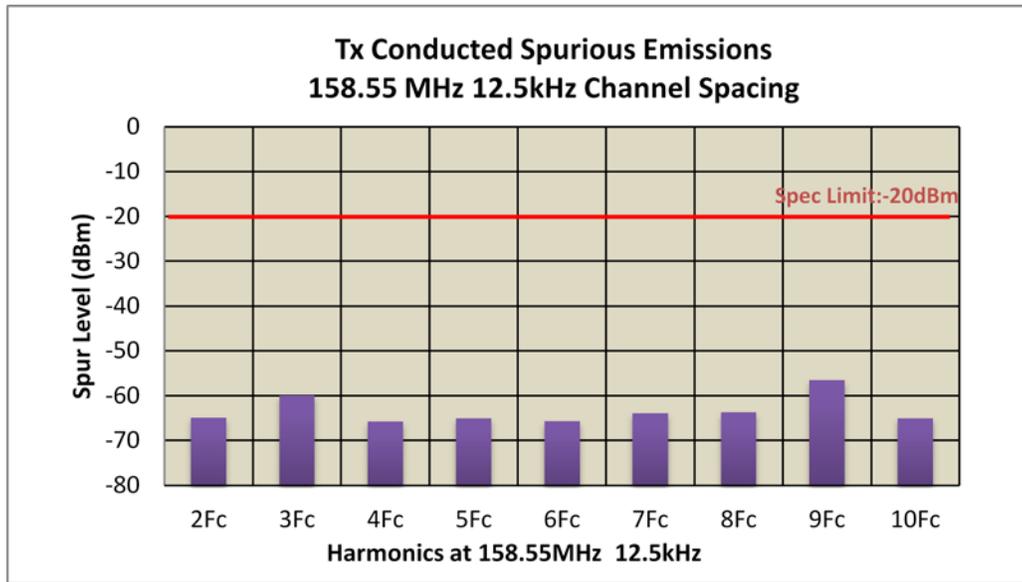


Figure 6F-11: 25W Harmonic of Carrier 158.55 MHz, Digital 12.5 kHz Channel Spacing

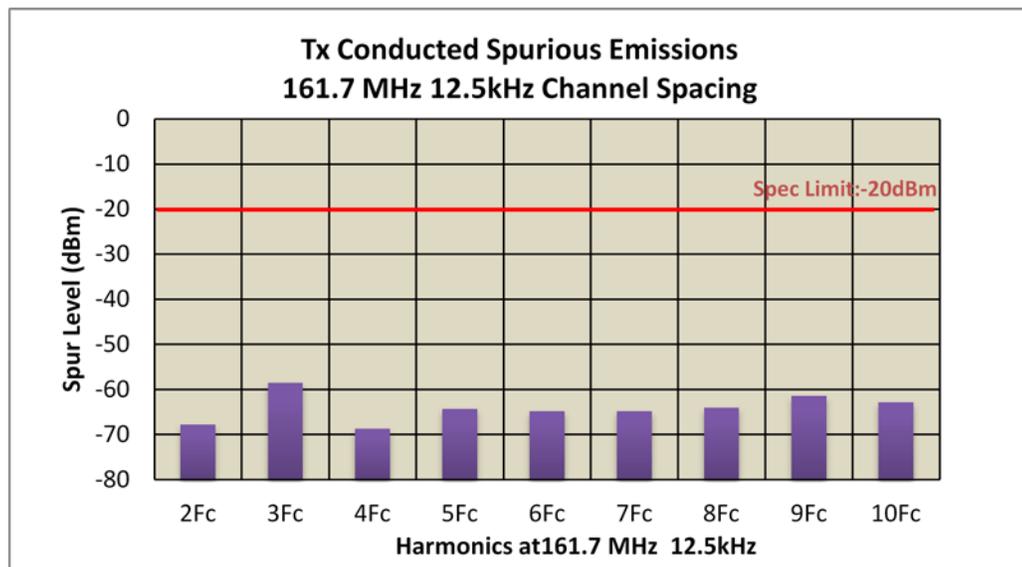


Figure 6F-12: 25W Harmonic of Carrier 161.7 MHz, Digital 12.5 kHz Channel Spacing

















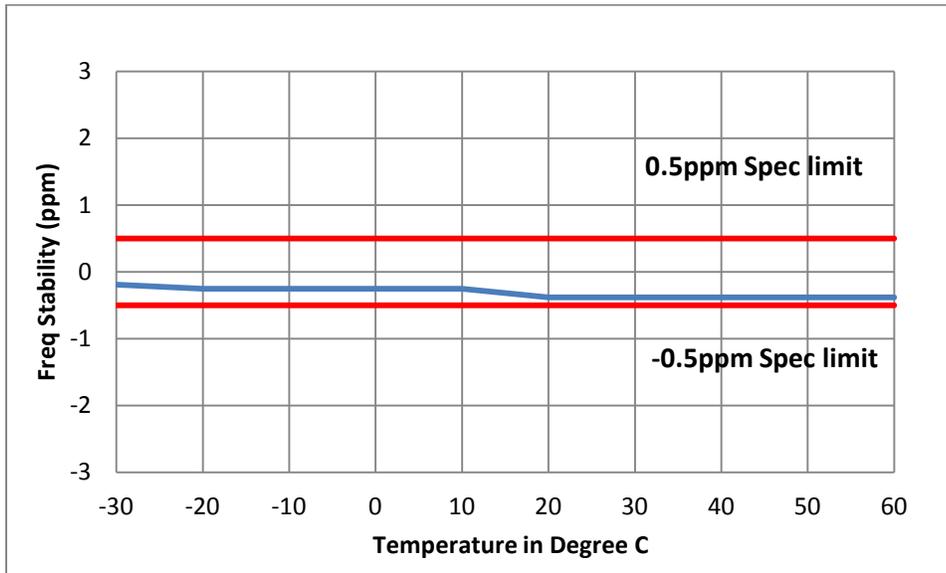




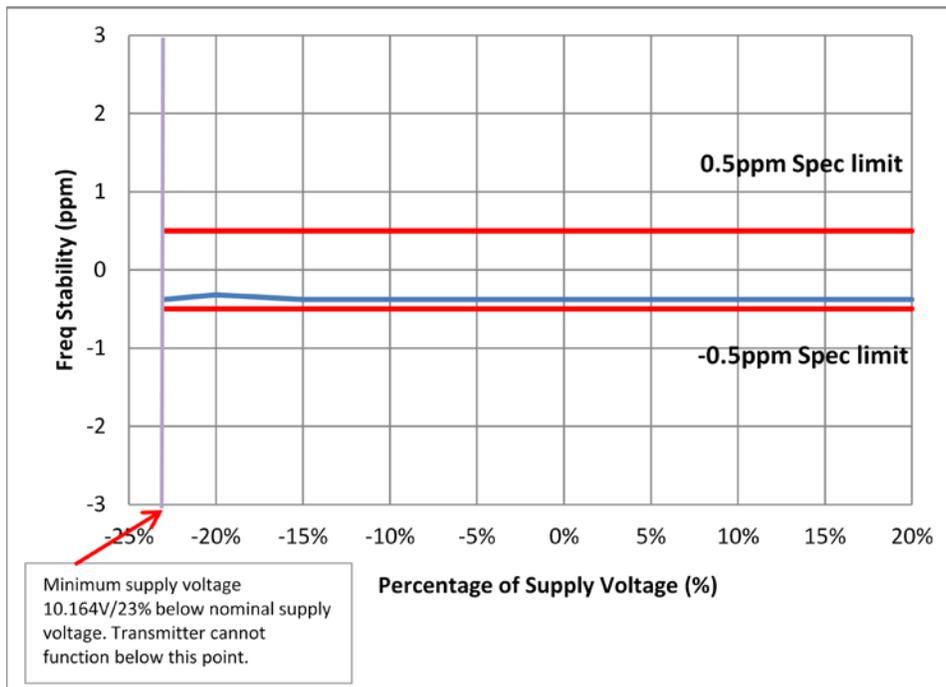




**EXHIBIT 6H – Frequency Stability**

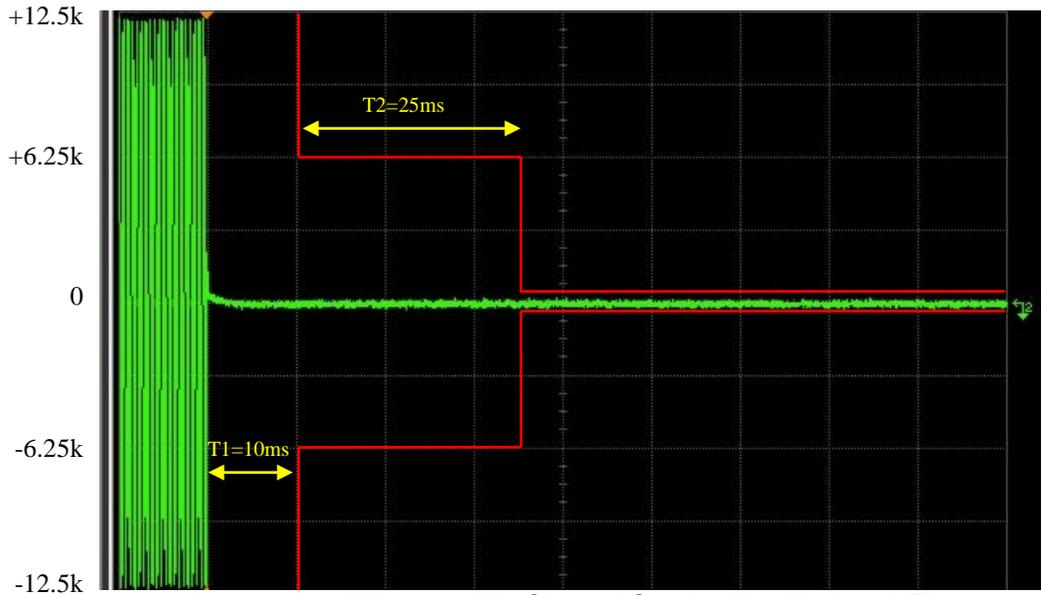


**6H-1 – 158.55 MHz Frequency Stability vs. Temperature**

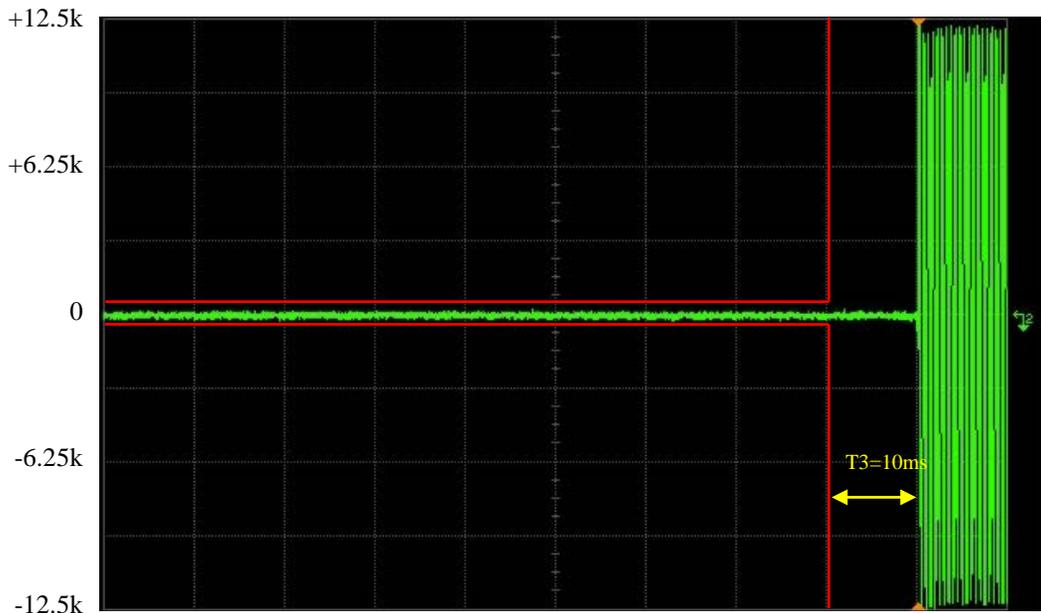


**6H-2 – 158.55 MHz Frequency Stability vs. Supply Voltage**

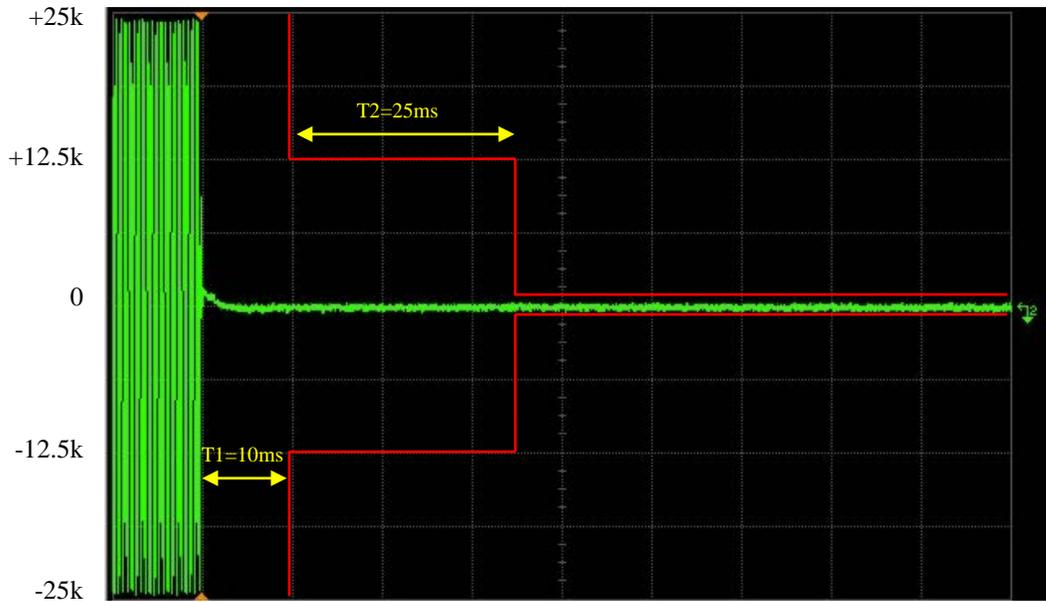
**EXHIBIT 6I – Transient Frequency Behavior**



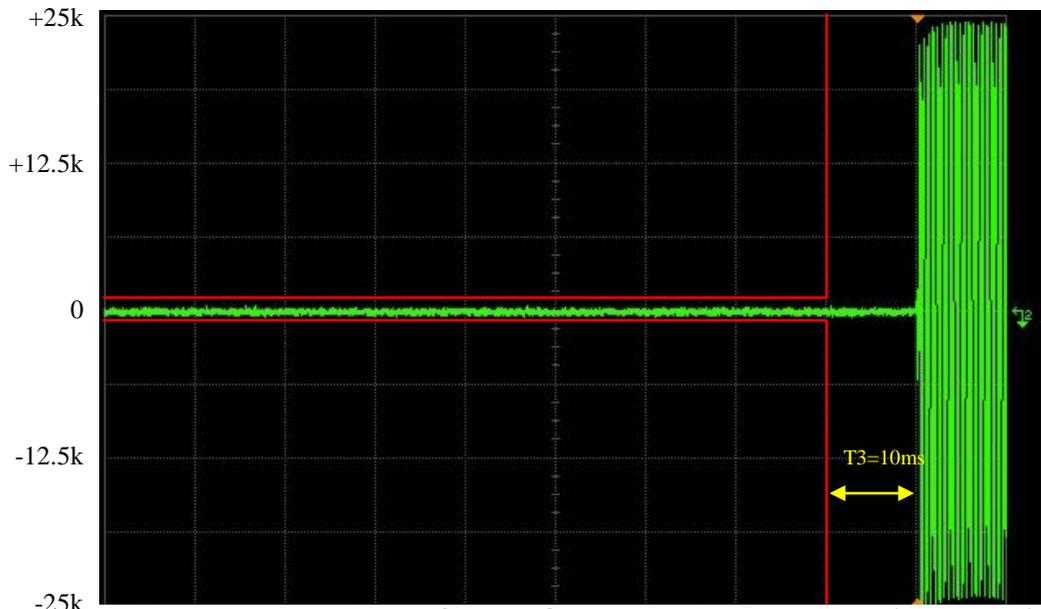
**6I-1** – 158.55 MHz, 12.5 kHz Channel Spacing Key-Up Attack Time



**6I-2** – 158.55 MHz, 12.5 kHz Channel Spacing De-Key Decay Time



**6I-3** – 158.55 MHz, 25 kHz Channel Spacing Key-Up Attack Time (Part 22, 80)



**6I-4** – 158.55 MHz, 25 kHz Channel Spacing De-Key Decay Time (Part 22, 80)