

**EXHIBIT 6****INDEX OF SUBMITTED MEASURED DATA**

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

**EXHIBIT 6A – RF Power Output****EXHIBIT 6B – Audio Frequency Response**

- 6B-1: 12.5 kHz Channel Spacing, 467.775MHz, Transmit Audio Frequency Response
- 6B-2: 25 kHz Channel Spacing, 467.775MHz, Transmit Audio Frequency Response
- 6B-3: 25 kHz Channel Spacing, 511.9875MHz, Transmit Audio Frequency Response

**EXHIBIT 6C – Audio Low Pass Filter Response**

- 6C-1: 12.5 kHz Channel Spacing, 467.775MHz, Transmit Audio Low Pass Filter Response
- 6C-2: 25 kHz Channel Spacing, 467.775MHz, Transmit Audio Low Pass Filter Response
- 6C-3: 25 kHz Channel Spacing, 511.9875MHz, Transmit Audio Low Pass Filter Response

**EXHIBIT 6D – Modulation Limiting**

- 6D-1: 12.5 kHz Channel Spacing, 467.775MHz, Modulation Limiting
- 6D -2: 25 kHz Channel Spacing, 467.775MHz, Modulation Limiting

**EXHIBIT 6E – Occupied Bandwidth**

- 6E-1: 406.2 MHz, 12.5 kHz, 2500 Hz Audio Modulation Only, 11K0F3E Mask D
- 6E-2: 450.65 MHz, 12.5 kHz, 2500 Hz Audio Modulation Only, 11K0F3E Mask D
- 6E-3: 459.125 MHz, 12.5 kHz, 2500 Hz Audio Modulation Only, 11K0F3E Mask D
- 6E-4: 467.775 MHz, 12.5 kHz, 2500 Hz Audio Modulation Only, 11K0F3E Mask D
- 6E-5: 511.9875 MHz, 12.5 kHz, 2500 Hz Audio Modulation Only, 11K0F3E Mask D (Not applicable for IC)
- 6E-6: 526.9875 MHz, 12.5 kHz, 2500 Hz Audio Modulation Only, 11K0F3E Mask D (Not applicable for FCC/IC)
- 6E-7: 406.2 MHz, 25 kHz, 2500 Hz Audio Modulation Only, 16K0F3E Mask B (Not applicable for FCC)
- 6E-8: 450.65 MHz, 25 kHz, 2500 Hz Audio Modulation Only, 16K0F3E Mask B, 74.462(c)
- 6E-9: 459.125 MHz, 25 kHz, 2500 Hz Audio Modulation Only, 16K0F3E Mask B, Part 22.359(b) FCC Limit
- 6E-10: 467.775 MHz, 25 kHz, 2500 Hz Audio Modulation Only, 16K0F3E Mask B, 80.211(f)
- 6E-11: 511.9875 MHz, 25 kHz, 2500 Hz Audio Modulation Only, 16K0F3E Mask B (Not applicable for IC)
- 6E-12: 526.9875 MHz, 25 kHz, 2500 Hz Audio Modulation Only, 16K0F3E Mask B (Not applicable for FCC/IC)
- 6E-13: 406.2 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask D
- 6E-14: 450.65 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask D
- 6E-15: 459.125 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask D
- 6E-16: 467.775 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask D
- 6E-17: 511.9875 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask D (Not applicable for IC)
- 6E-18: 526.9875 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask D (Not applicable for FCC/IC)
- 6E-19: 406.2 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask D
- 6E-20: 450.65 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask D
- 6E-21: 459.125 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask D

6E-22: 467.775 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask D  
6E-23: 511.9875 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask D  
(Not applicable for IC)  
6E-24: 526.9875 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask D  
(Not applicable for FCC/IC)  
6E-25: 406.2 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation Only, 7K60F1W  
Mask D  
6E-26: 450.65 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation Only, 7K60F1W  
Mask D  
6E-27: 459.125 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation Only,  
7K60F1W Mask D  
6E-28: 467.775 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation Only,  
7K60F1W Mask D  
6E-29: 511.9875 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation Only,  
7K60F1W Mask D (Not applicable for IC)  
6E-30: 526.9875 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation Only,  
7K60F1W Mask D (Not applicable for FCC/IC)  
6E-31: 467.775 MHz, 25 kHz, 2500 Hz Audio Modulation Only, 16K0F3E Mask B, Mask  
80.211(c)

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

6F-1: 1W Harmonic of Carrier 450.65 MHz, 12.5 kHz Channel Spacing, Digital Mode  
6F-2: 1W Harmonic of Carrier 467.775 MHz, 12.5 kHz Channel Spacing, Digital Mode  
6F-3: 1W Harmonic of Carrier 511.9875 MHz, 12.5 kHz Channel Spacing, Digital Mode  
(Not applicable for IC)  
6F-4: 1W Harmonic of Carrier 450.65 MHz, 25 kHz Channel Spacing, Analog Mode  
6F-5: 1W Harmonic of Carrier 467.775 MHz, 25 kHz Channel Spacing, Analog Mode  
6F-6: 1W Harmonic of Carrier 511.9875 MHz, 25 kHz Channel Spacing, Analog Mode  
(Not applicable for IC)  
6F-7: 4.8W Harmonic of Carrier 406.2 MHz, 12.5 kHz Channel Spacing, Digital Mode  
6F-8: 4.8W Harmonic of Carrier 450.65 MHz, 12.5 kHz Channel Spacing, Digital Mode  
6F-9: 4.8W Harmonic of Carrier 459.125 MHz, 12.5 kHz Channel Spacing, Digital Mode  
6F-10: 4.8W Harmonic of Carrier 467.775 MHz, 12.5 kHz Channel Spacing, Digital Mode  
6F-11: 4.8W Harmonic of Carrier 511.9875 MHz, 12.5 kHz Channel Spacing, Digital  
Mode (Not applicable for IC)  
6F-12: 4.8W Harmonic of Carrier 526.9875 MHz, 12.5 kHz Channel Spacing, Digital  
Mode (Not applicable for FCC/IC)  
6F-13: 4.8W Harmonic of Carrier 406.2 MHz, 25 kHz Channel Spacing, Analog Mode  
(Not applicable for FCC)  
6F-14: 4.8W Harmonic of Carrier 450.65 MHz, 25 kHz Channel Spacing, Analog Mode  
6F-15: 4.8W Harmonic of Carrier 459.125 MHz, 25 kHz Channel Spacing, Analog Mode  
6F-16: 4.8W Harmonic of Carrier 467.775 MHz, 25 kHz Channel Spacing, Analog Mode  
6F-17: 4.8W Harmonic of Carrier 511.9875 MHz, 25 kHz Channel Spacing, Analog Mode  
(Not applicable for IC)  
6F-18: 4.8W Harmonic of Carrier 526.9875 MHz, 25 kHz Channel Spacing, Analog Mode  
(Not applicable for FCC/IC)

**EXHIBIT 6G – Transmit Radiated Spurious Emissions**

6G-1: 1W Harmonic of Carrier 450.65 MHz, 12.5 kHz Channel Spacing, Digital Mode  
6G-2: 1W Harmonic of Carrier 467.775 MHz, 12.5 kHz Channel Spacing, Digital Mode  
6G-3: 1W Harmonic of Carrier 511.9875 MHz, 12.5 kHz Channel Spacing, Digital Mode  
(Not applicable for IC)  
6G-4: 1W Harmonic of Carrier 450.65 MHz, 25 kHz Channel Spacing, Analog Mode  
6G-5: 1W Harmonic of Carrier 467.775 MHz, 25 kHz Channel Spacing, Analog Mode

6G-6: 1W Harmonic of Carrier 511.9875 MHz, 25 kHz Channel Spacing, Analog Mode (Not applicable for IC)  
6G-7: 4.8W Harmonic of Carrier 406.2 MHz, 12.5 kHz Channel Spacing, Digital Mode  
6G-8: 4.8W Harmonic of Carrier 450.65 MHz, 12.5 kHz Channel Spacing, Digital Mode  
6G-9: 4.8W Harmonic of Carrier 459.125 MHz, 12.5 kHz Channel Spacing, Digital Mode  
6G-10: 4.8W Harmonic of Carrier 467.775 MHz, 12.5 kHz Channel Spacing, Digital Mode  
6G-11: 4.8W Harmonic of Carrier 511.9875 MHz, 12.5 kHz Channel Spacing, Digital Mode (Not applicable for IC)  
6G-12: 4.8W Harmonic of Carrier 526.9875 MHz, 12.5 kHz Channel Spacing, Digital Mode (Not applicable for FCC/IC)  
6G-13: 4.8W Harmonic of Carrier 406.2 MHz, 25 kHz Channel Spacing, Analog Mode (Not applicable for FCC)  
6G-14: 4.8W Harmonic of Carrier 450.65 MHz, 25 kHz Channel Spacing, Analog Mode  
6G-15: 4.8W Harmonic of Carrier 459.125 MHz, 25 kHz Channel Spacing, Analog Mode  
6G-16: 4.8W Harmonic of Carrier 467.775 MHz, 25 kHz Channel Spacing, Analog Mode  
6G-17: 4.8W Harmonic of Carrier 511.9875 MHz, 25 kHz Channel Spacing, Analog Mode (Not applicable for IC)  
6G-18: 4.8W Harmonic of Carrier 526.9875 MHz, 25 kHz Channel Spacing, Analog Mode (Not applicable for FCC/IC)

**EXHIBIT 6H - Frequency Stability**

6H-1: 467.775 MHz, 0.5 ppm Frequency Stability vs. Temperature  
6H-2: 467.775 MHz, 0.5 ppm Frequency Stability vs. Voltage

**EXHIBIT 6I - Transient Frequency Behavior**

6I-1: 467.775 MHz, 12.5 kHz Channel Spacing – Transmitters On  
6I-2: 467.775 MHz, 12.5 kHz Channel Spacing – Transmitters Off  
6I-3: 467.775 MHz, 25 kHz Channel Spacing – Transmitter On  
6I-4: 467.775 MHz, 25 kHz Channel Spacing – Transmitter Off

**\*\* 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 October 2015. See Table 2 in Ex07\_test procedures**

Radio model tested: AAH02RDH9VA1AN

**Important Note: The data in this test report meets or exceeds the technical requirements of FCC Rule Parts 22, 74, 80, 90 and RSS 119.**

**EXHIBIT 6A****RF Output Power:****Frequency = 406.2 MHz:**

|                 |            |
|-----------------|------------|
| Output RF power | 4.61 Watts |
| DC Voltage      | 7.50 Volts |
| DC Current      | 1.47 Amps  |

|                 |            |
|-----------------|------------|
| Output RF power | 1.31 Watts |
| DC Voltage      | 7.50 Volts |
| DC Current      | 0.79 Amps  |

**Frequency= 450.65 MHz:**

|                 |            |
|-----------------|------------|
| Output RF power | 4.62 Watts |
| DC Voltage      | 7.50 Volts |
| DC Current      | 1.60 Amps  |

|                 |            |
|-----------------|------------|
| Output RF power | 1.28 Watts |
| DC Voltage      | 7.50 Volts |
| DC Current      | 0.83 Amps  |

**Frequency= 459.125 MHz:**

|                 |            |
|-----------------|------------|
| Output RF power | 4.61 Watts |
| DC Voltage      | 7.50 Volts |
| DC Current      | 1.61 Amps  |

|                 |            |
|-----------------|------------|
| Output RF power | 1.26 Watts |
| DC Voltage      | 7.50 Volts |
| DC Current      | 0.83 Amps  |

**Frequency= 467.775 MHz:**

|                 |            |
|-----------------|------------|
| Output RF power | 4.57 Watts |
| DC Voltage      | 7.50 Volts |
| DC Current      | 1.56 Amps  |

|                 |            |
|-----------------|------------|
| Output RF power | 1.25 Watts |
| DC Voltage      | 7.50 Volts |
| DC Current      | 0.83 Amps  |

**Frequency = 511.9875 MHz:**

|                 |            |
|-----------------|------------|
| Output RF power | 4.53 Watts |
| DC Voltage      | 7.50 Volts |
| DC Current      | 1.40 Amps  |

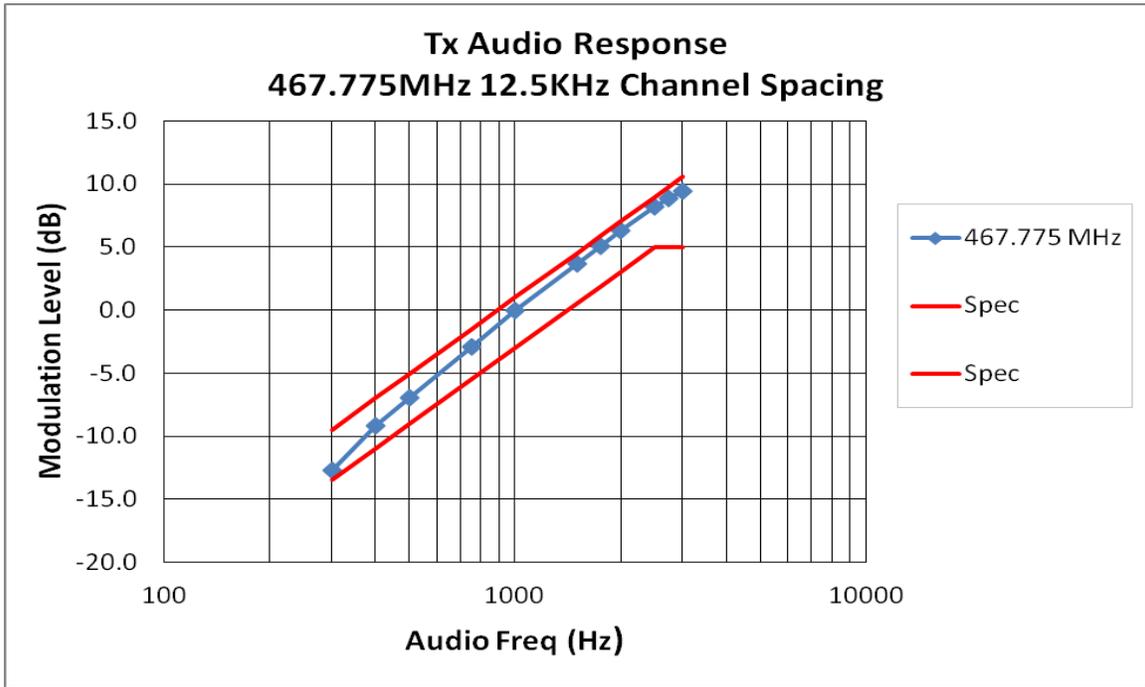
|                 |            |
|-----------------|------------|
| Output RF power | 1.35 Watts |
| DC Voltage      | 7.50 Volts |
| DC Current      | 0.70 Amps  |

**Frequency = 526.9875 MHz:**

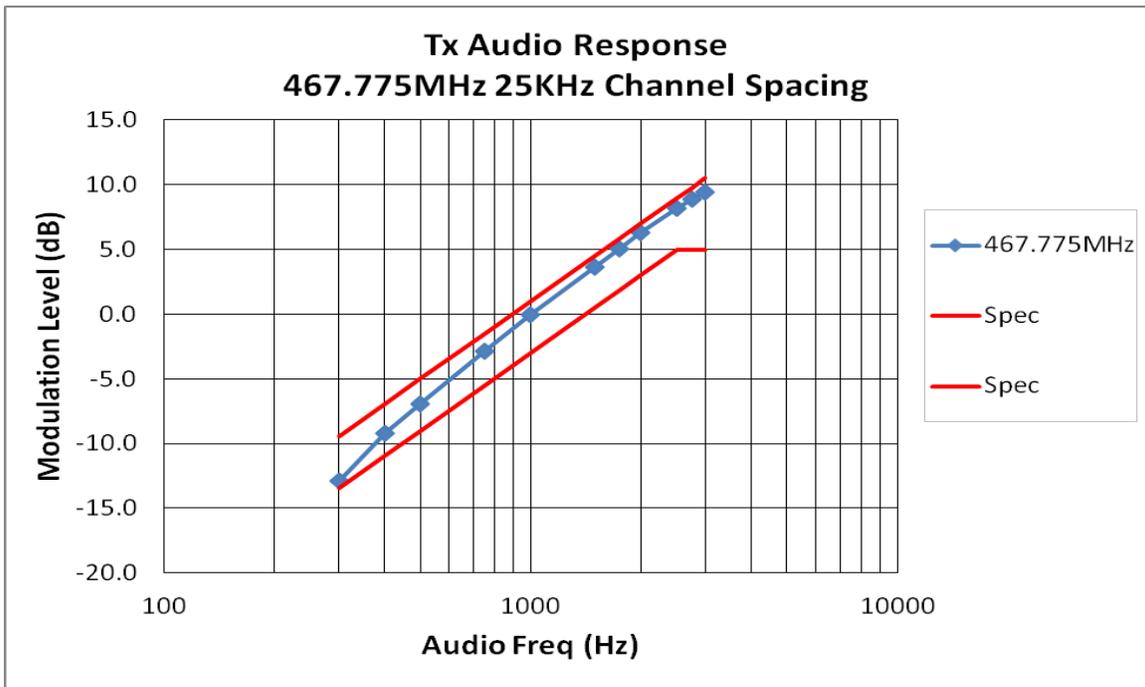
|                 |            |
|-----------------|------------|
| Output RF power | 4.59 Watts |
| DC Voltage      | 7.50 Volts |
| DC Current      | 1.58 Amps  |
| Output RF power | 1.34 Watts |
| DC Voltage      | 7.50 Volts |
| DC Current      | 0.75 Amps  |

**EXHIBIT 6B**

**Audio Frequency Response**



**Figure 6B-1:** 12.5 kHz Channel Spacing, 467.775MHz, Transmit Audio Frequency Response



**Figure 6B-2:** 25 kHz Channel Spacing, 467.775MHz, Transmit Audio Frequency Response

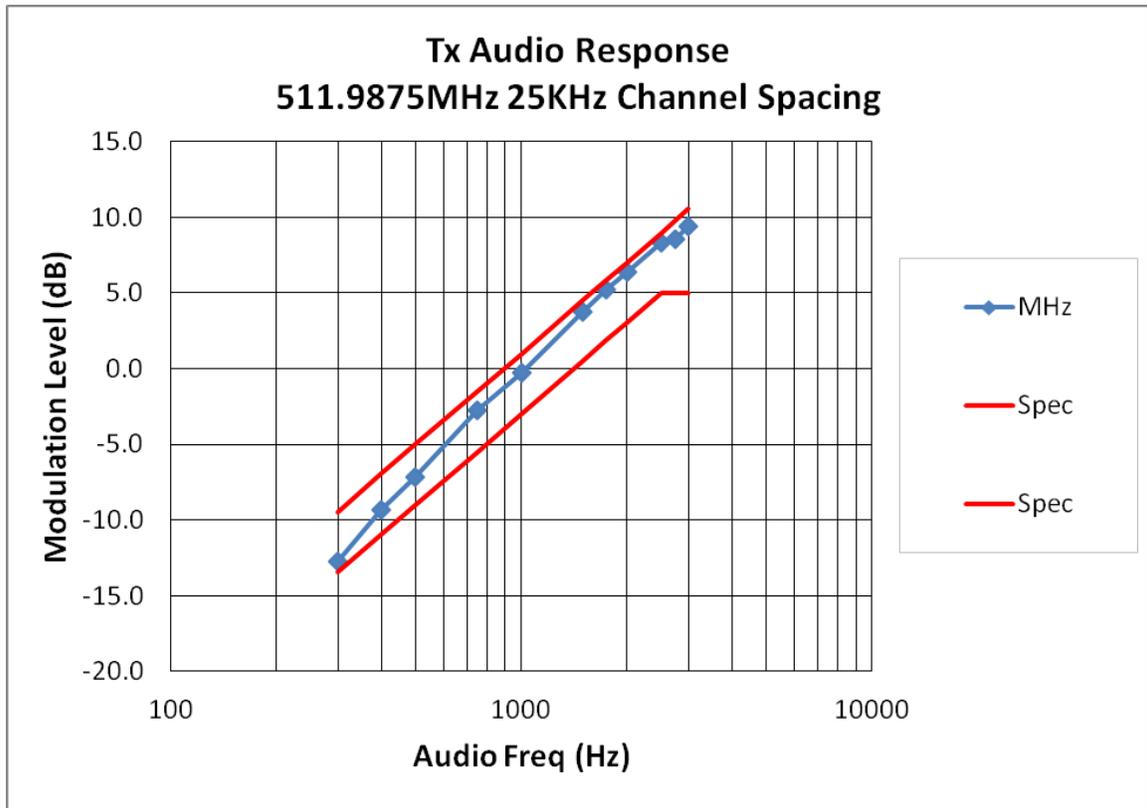
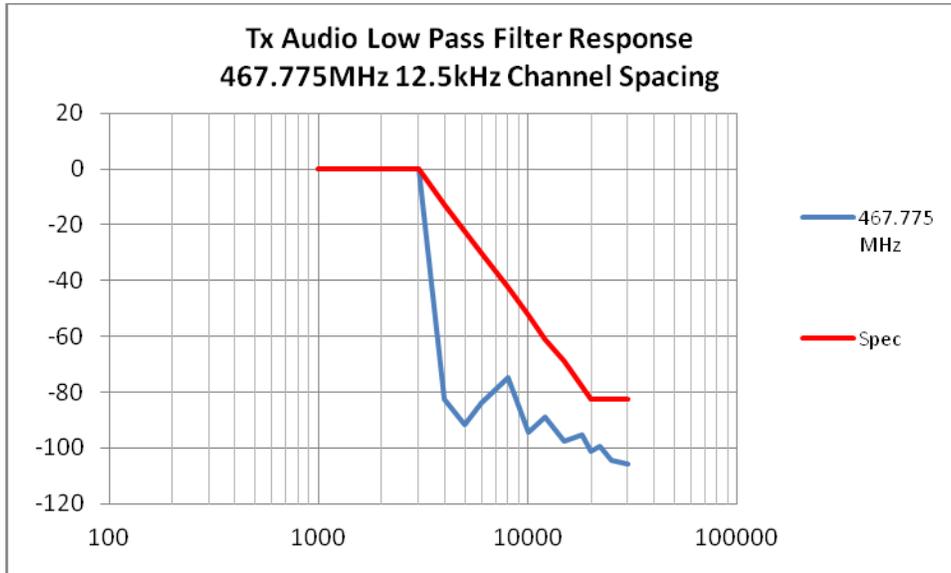


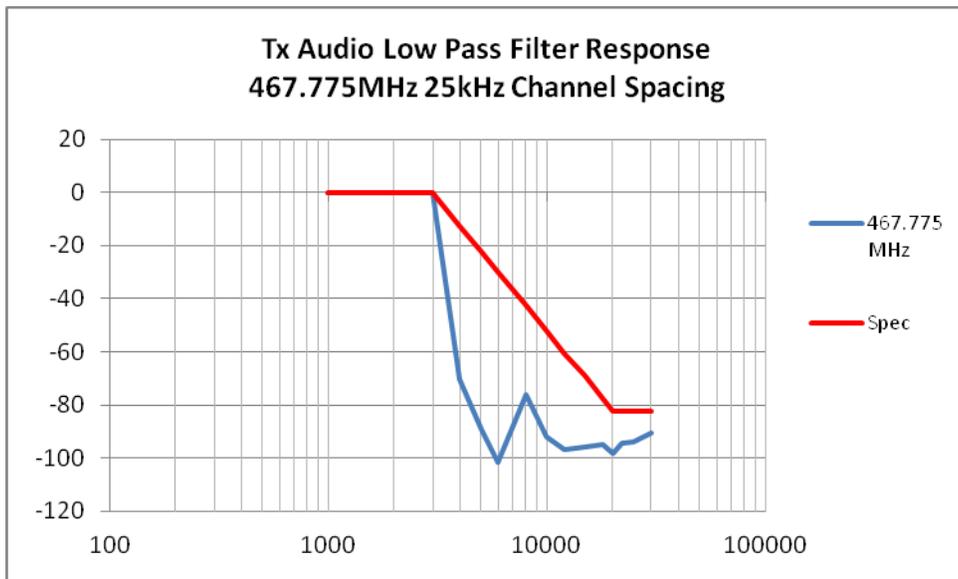
Figure 6B-3: 25 kHz Channel Spacing, 511.9875MHz, Transmit Audio Frequency Response

**EXHIBIT 6C**

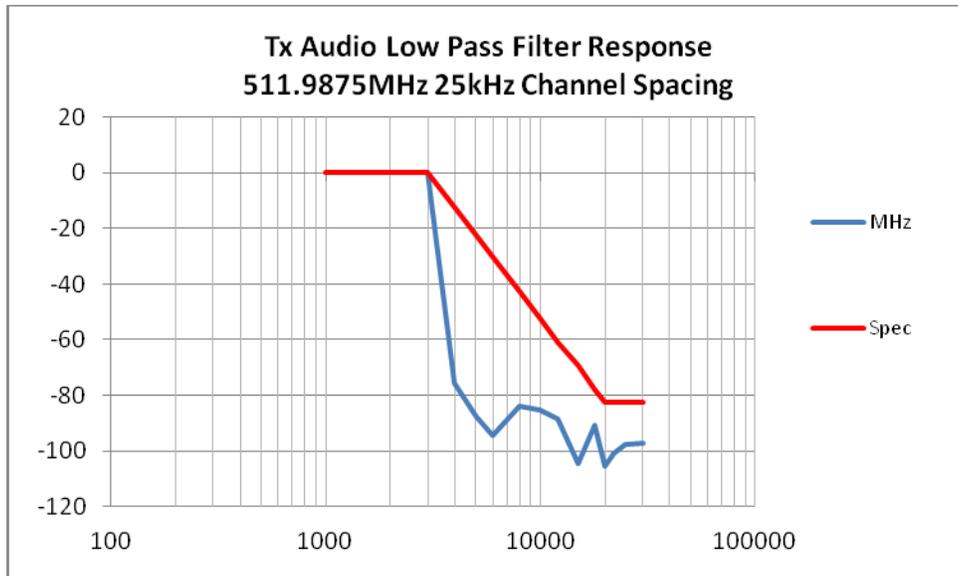
**Audio Low Pass Filter Response**



**Figure 6C-1:** 12.5 kHz Channel Spacing, 467.775MHz, Transmit Audio Low Pass Filter Response



**Figure 6C-2:** 25 kHz Channel Spacing, 467.775MHz, Transmit Audio Low Pass Filter Response



**Figure 6C-3:** 25 kHz Channel Spacing, 511.9875MHz, Transmit Audio Low Pass Filter Response

EXHIBIT 6D

Modulation Limiting

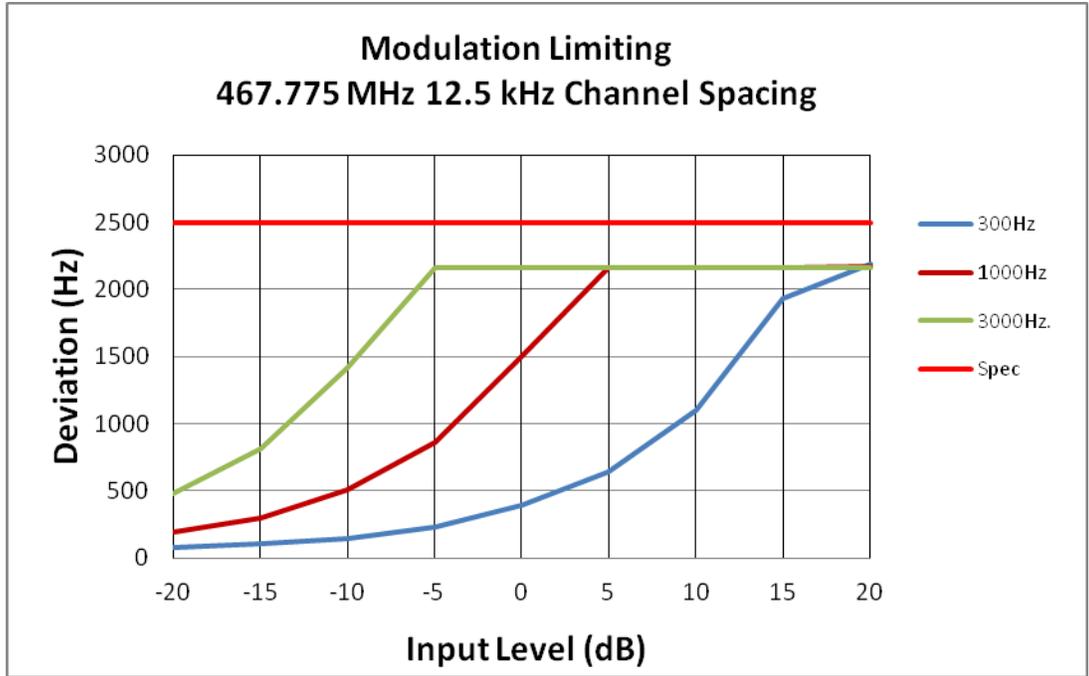


Figure 6D-1: 12.5 kHz Channel Spacing, 467.775MHz, Modulation Limiting

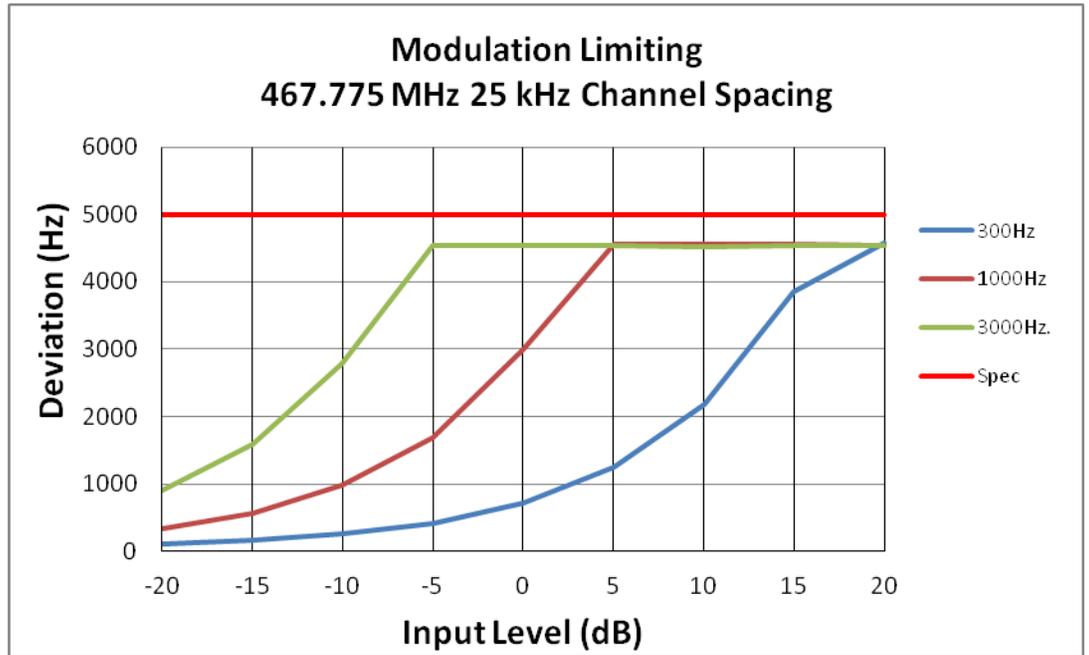


Figure 6D-2: 25 kHz Channel Spacing, 467.775MHz, Modulation Limiting

**EXHIBIT 6E**

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

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

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

$$|F(f)| = 0 \text{ for } |f| > 2880 \text{ Hz}$$

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**.

Digital (12.5 kHz Channelization, Digital TDMA)

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

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

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

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.....                      | <b>F</b> |
| Case not otherwise covered.....                | <b>X</b> |
| Data Transmission, telemetry, telecommand..... | <b>D</b> |

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

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

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.....                     | <b>F</b> |
| Case not otherwise covered.....               | <b>X</b> |
| Telephony (including sound broadcasting)..... | <b>E</b> |

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

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

Occupied Bandwidth Measurement

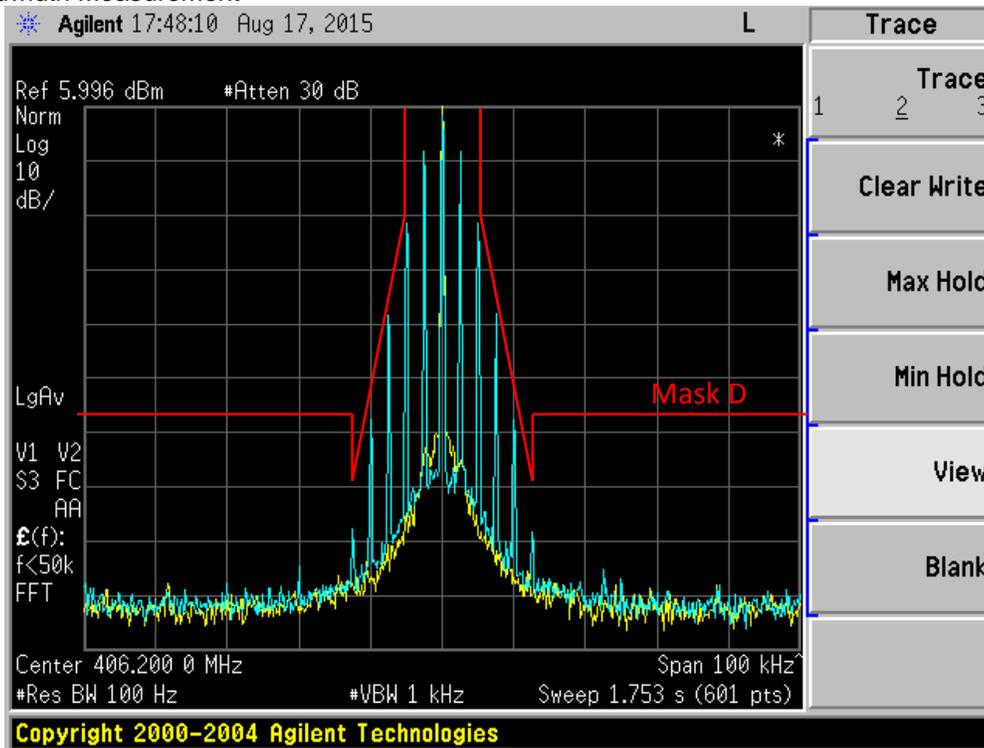


Figure 6E-1: 406.2 MHz, 12.5 kHz Channel Spacing, 2500Hz Audio Modulation only, 11K0F3E Mask D

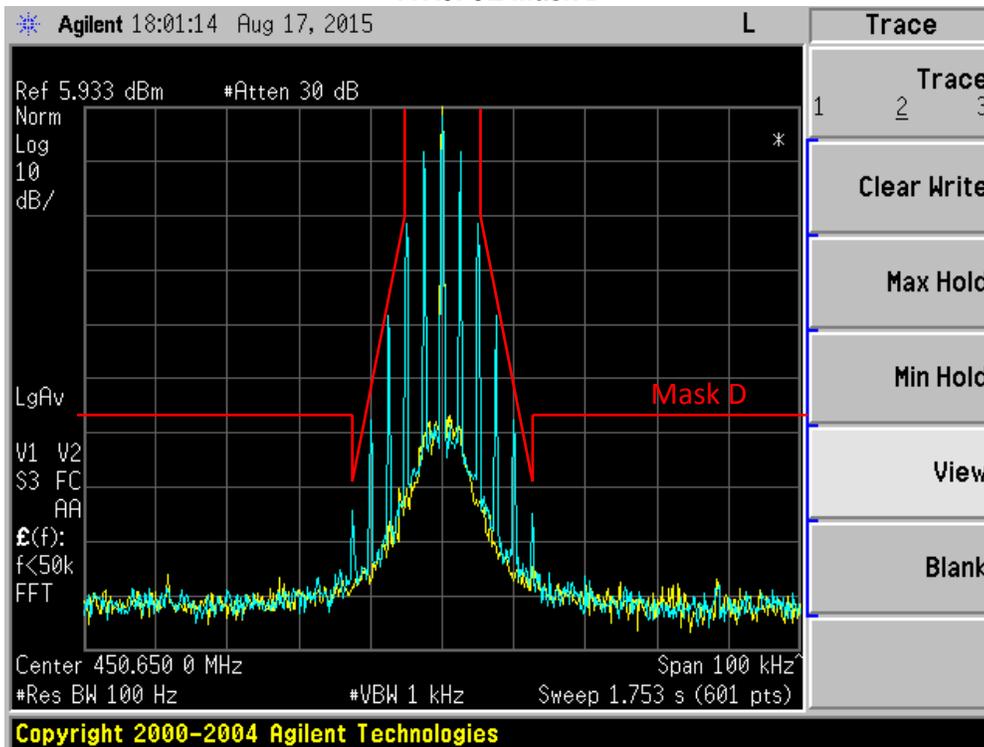


Figure 6E-2: 450.65 MHz, 12.5 kHz Channel Spacing, 2500Hz Audio Modulation only, 11K0F3E Mask D

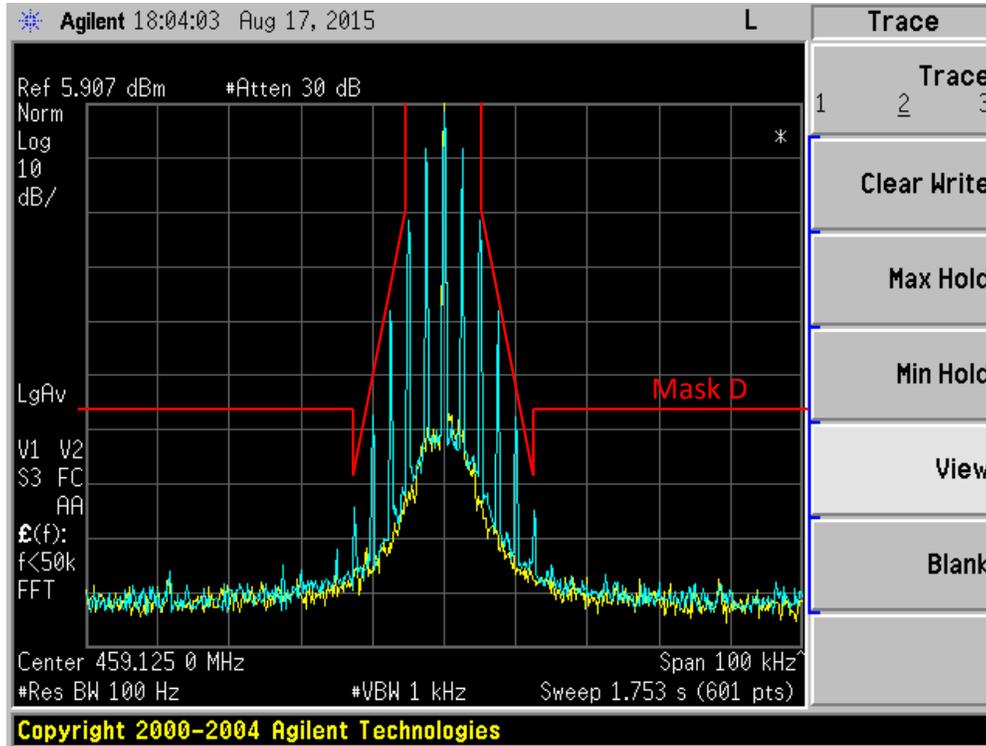


Figure 6E-3: 459.125 MHz, 12.5 kHz Channel Spacing, 2500Hz Audio Modulation only, 11K0F3E Mask D

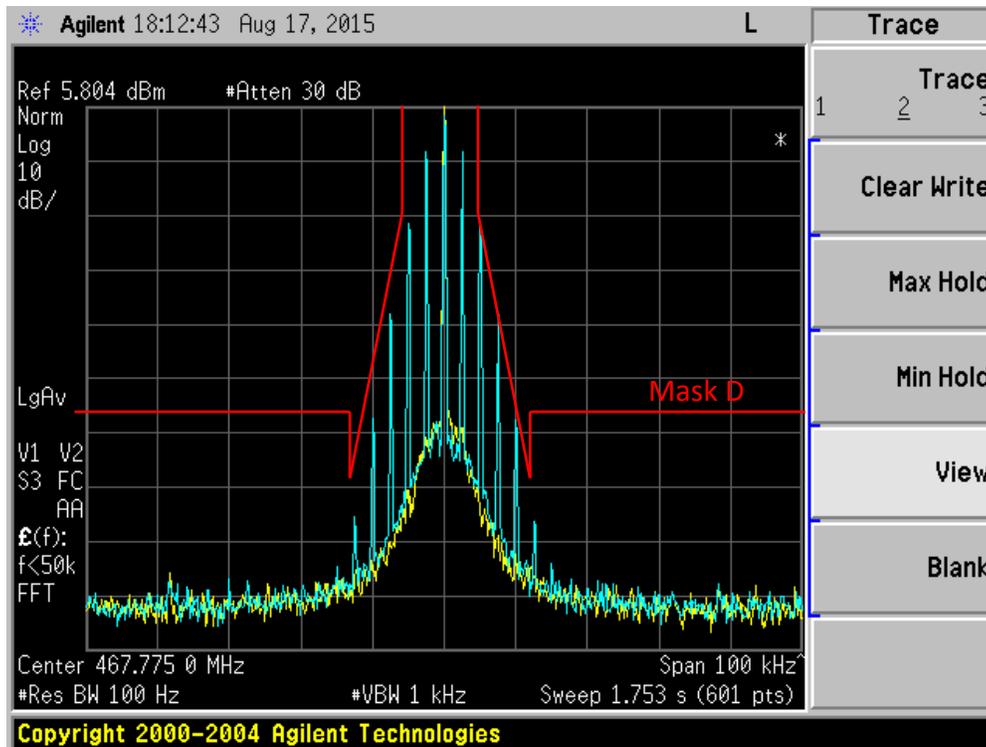


Figure 6E-4: 467.775 MHz, 12.5 kHz Channel Spacing, 2500Hz Audio Modulation only, 11K0F3E Mask D

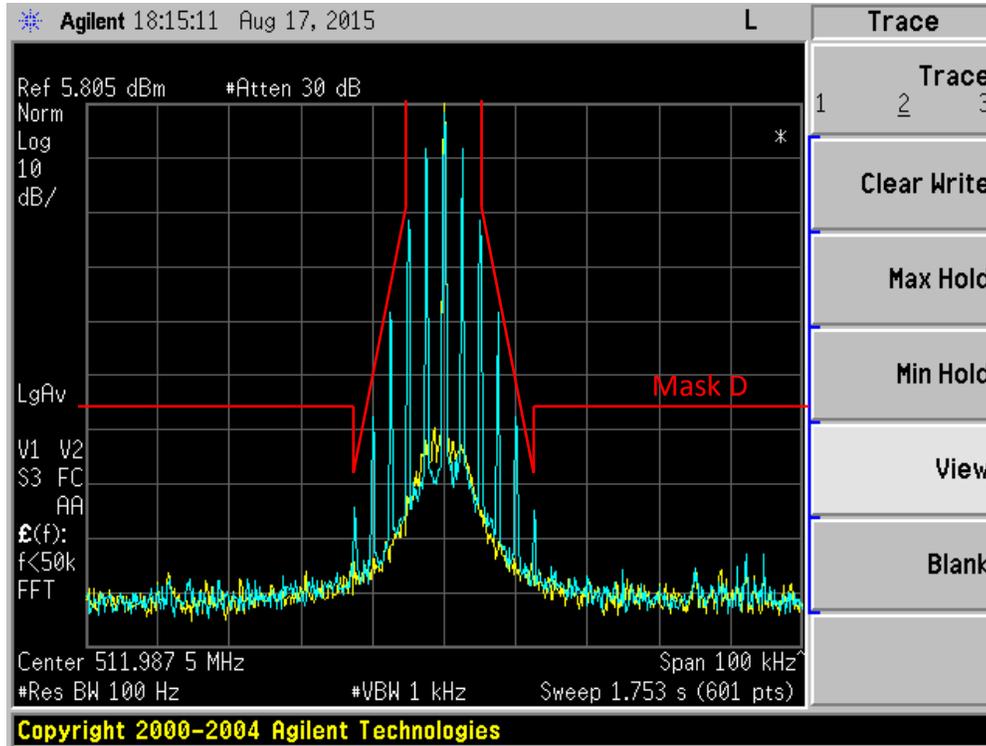


Figure 6E-5: 511.9875 MHz, 12.5 kHz Channel Spacing, 2500Hz Audio Modulation only, 11K0F3E Mask D (Not applicable for IC)

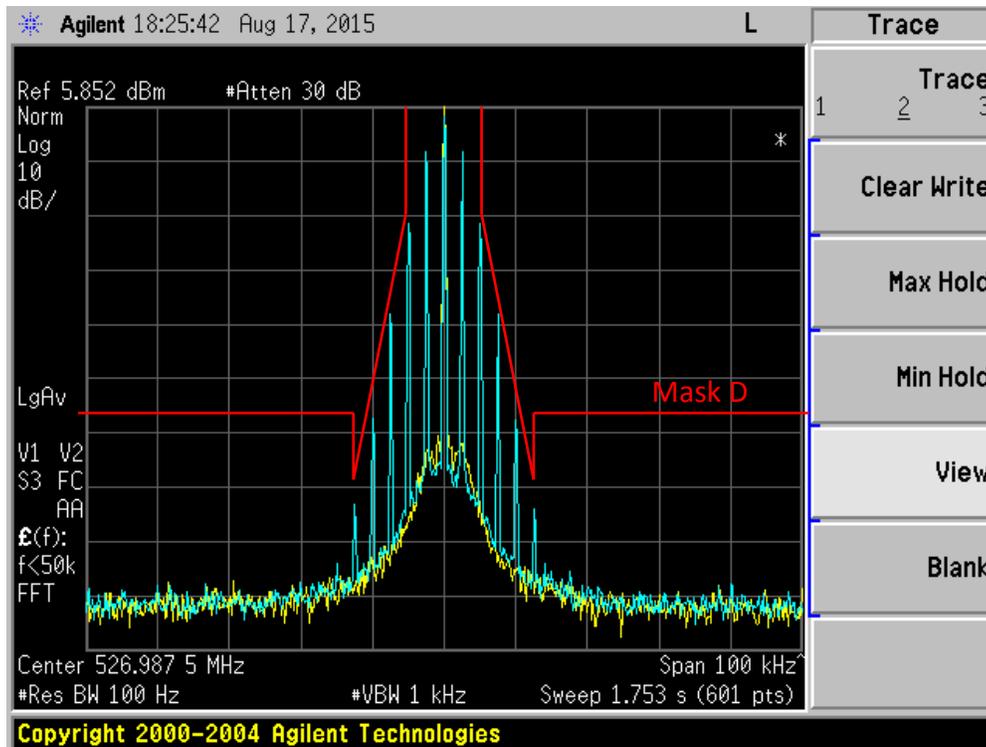


Figure 6E-6: 526.9875 MHz, 12.5 kHz Channel Spacing, 2500Hz Audio Modulation only, 11K0F3E Mask D (Not applicable for FCC/IC)

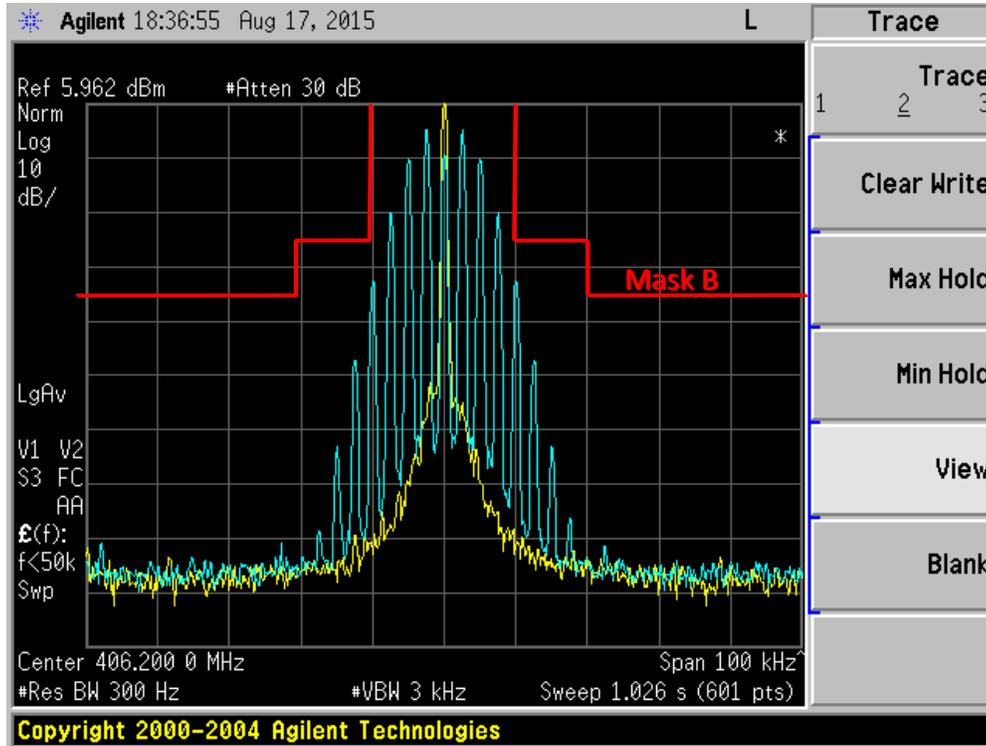


Figure 6E-7: 406.2 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E Mask B (Not applicable for FCC)

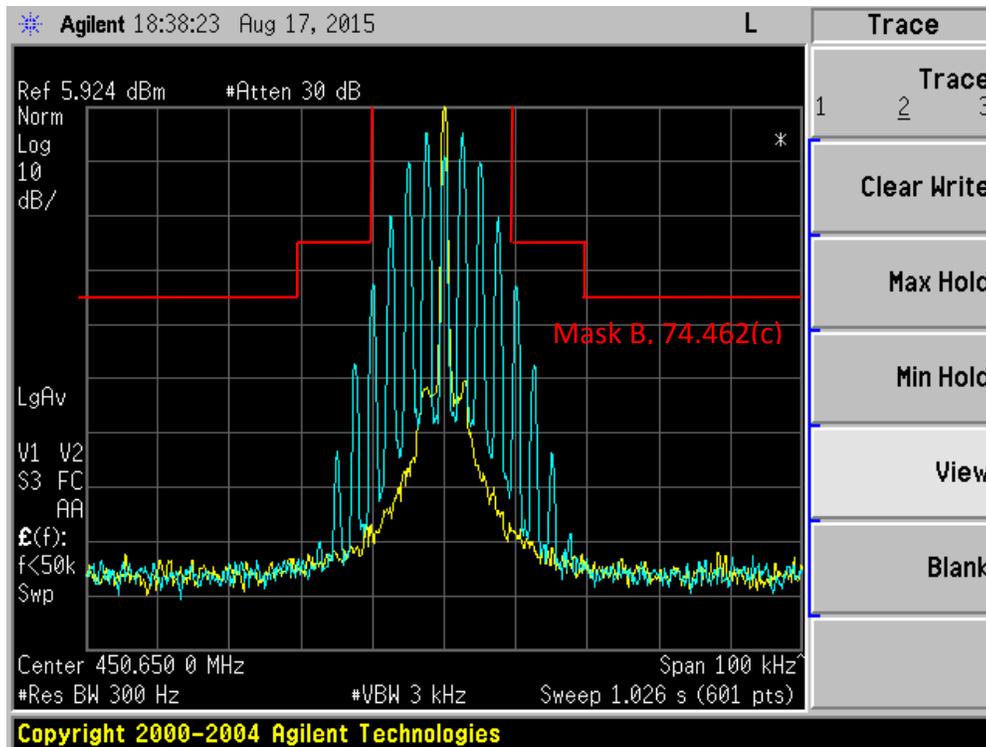


Figure 6E-8: 450.65 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E Mask B, 74.462(c)

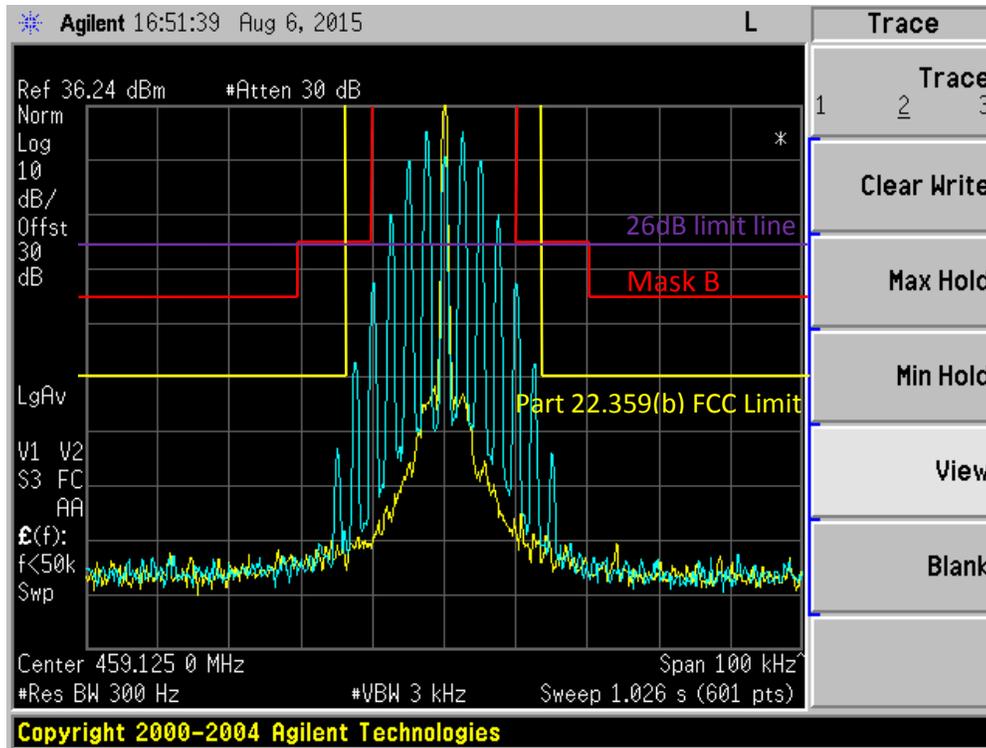


Figure 6E-9: 459.125 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E Mask B, Part 22.359(b) FCC Limit

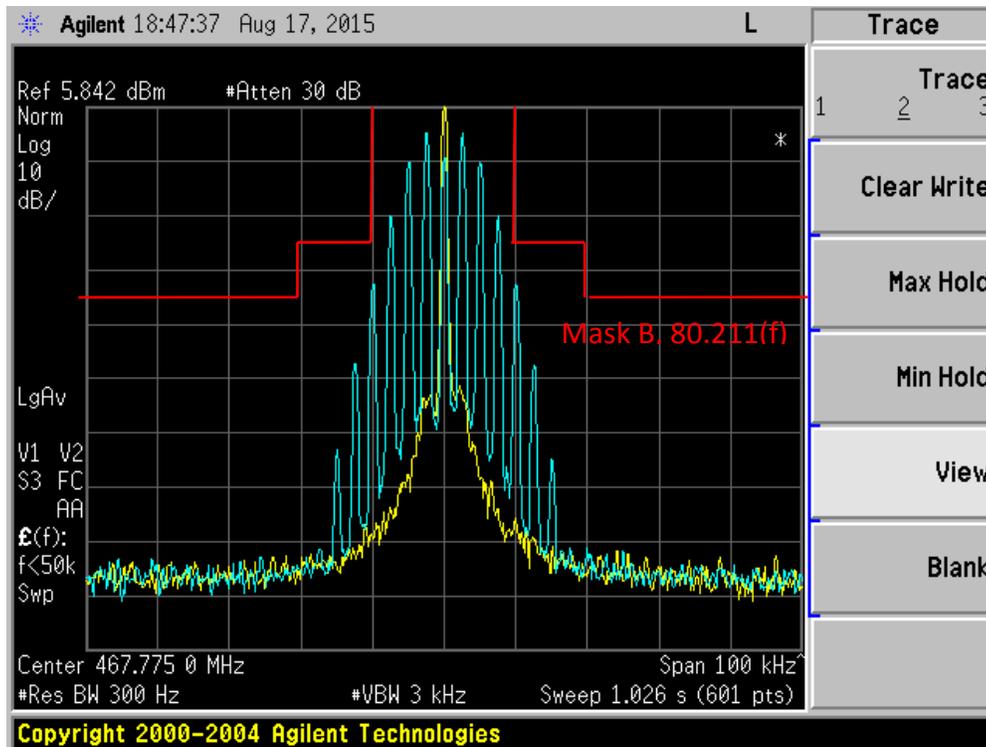


Figure 6E-10: 467.775 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E Mask B, 80.211(f)

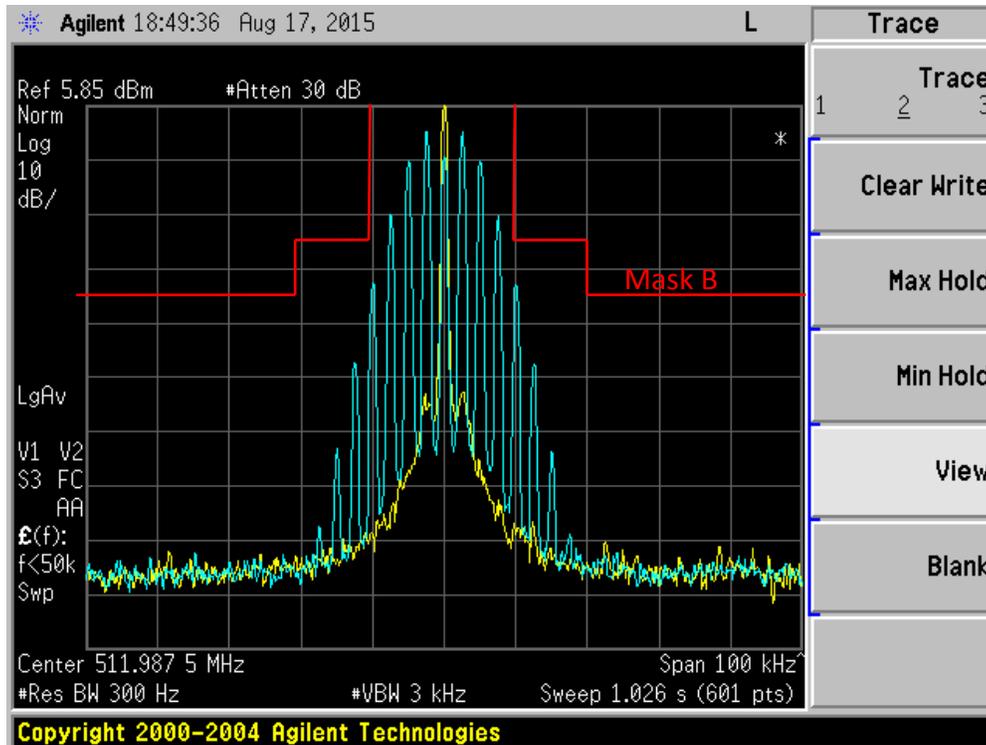


Figure 6E-11: 511.9875 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E Mask B (Not applicable for IC)

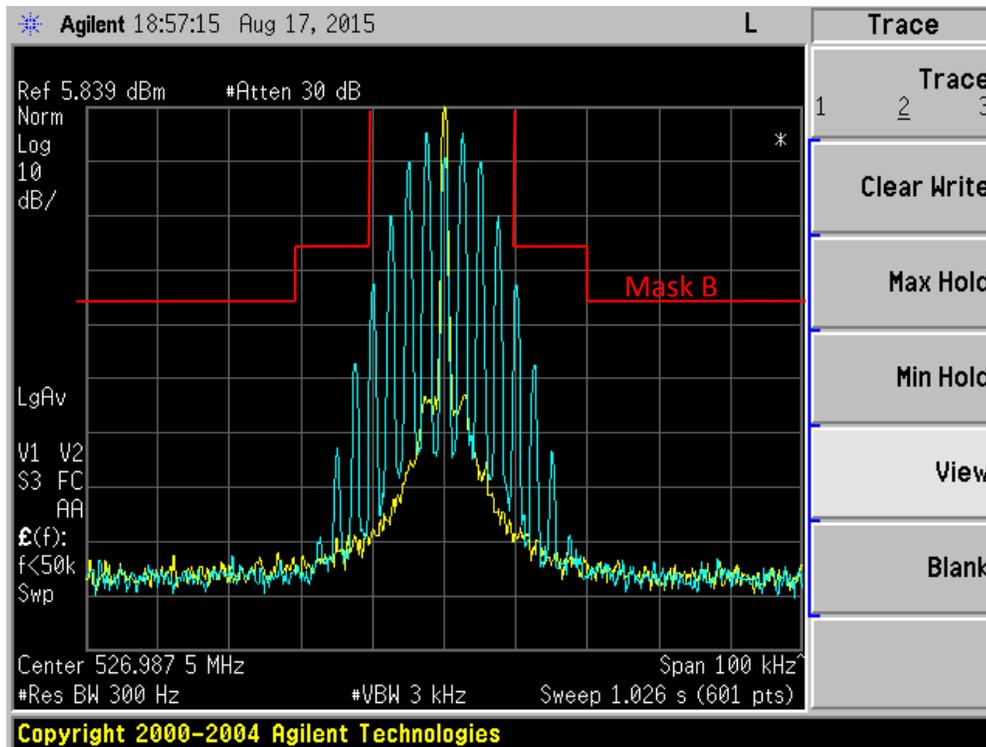


Figure 6E-12: 526.9875 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E Mask B (Not applicable for FCC/IC)

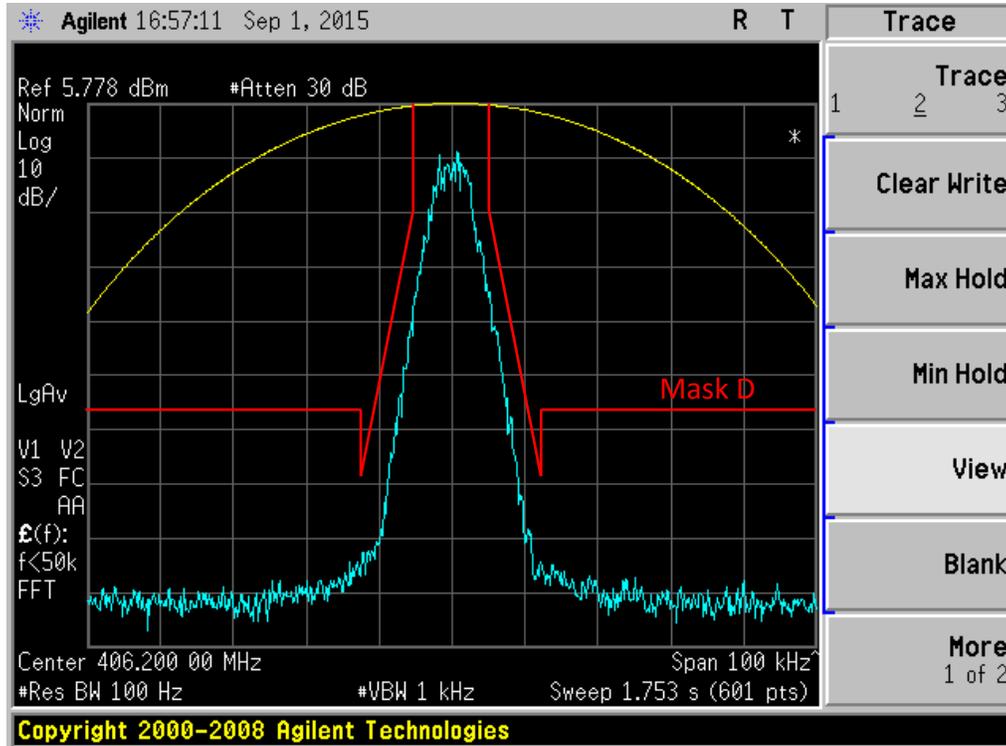


Figure 6E-13: 406.2 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask D

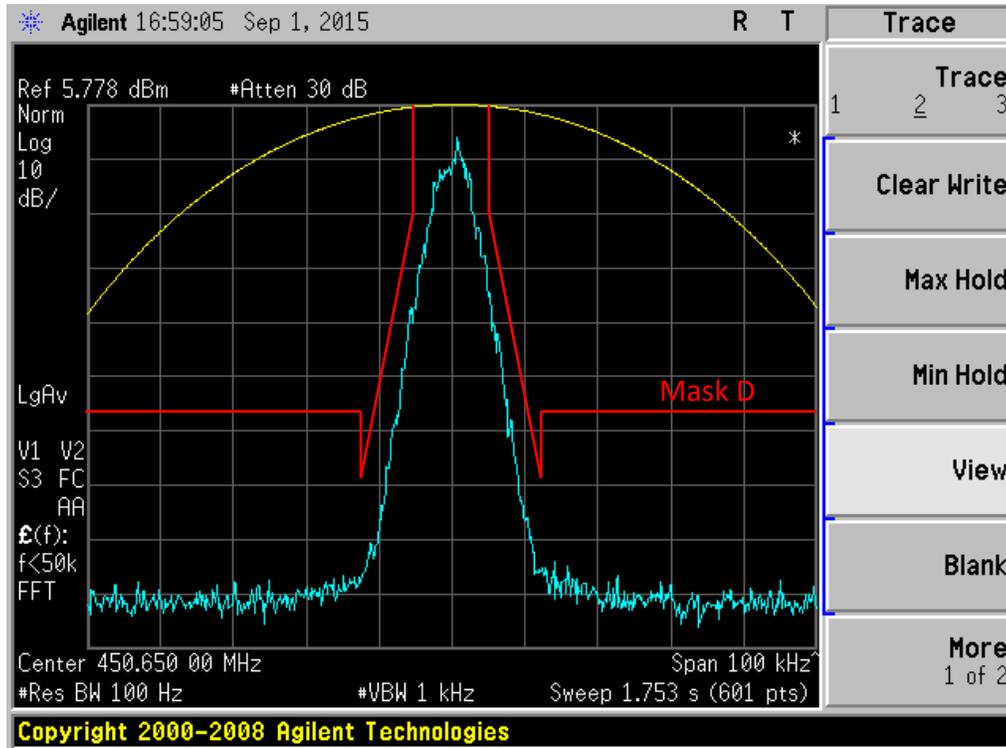


Figure 6E-14: 450.65 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask D

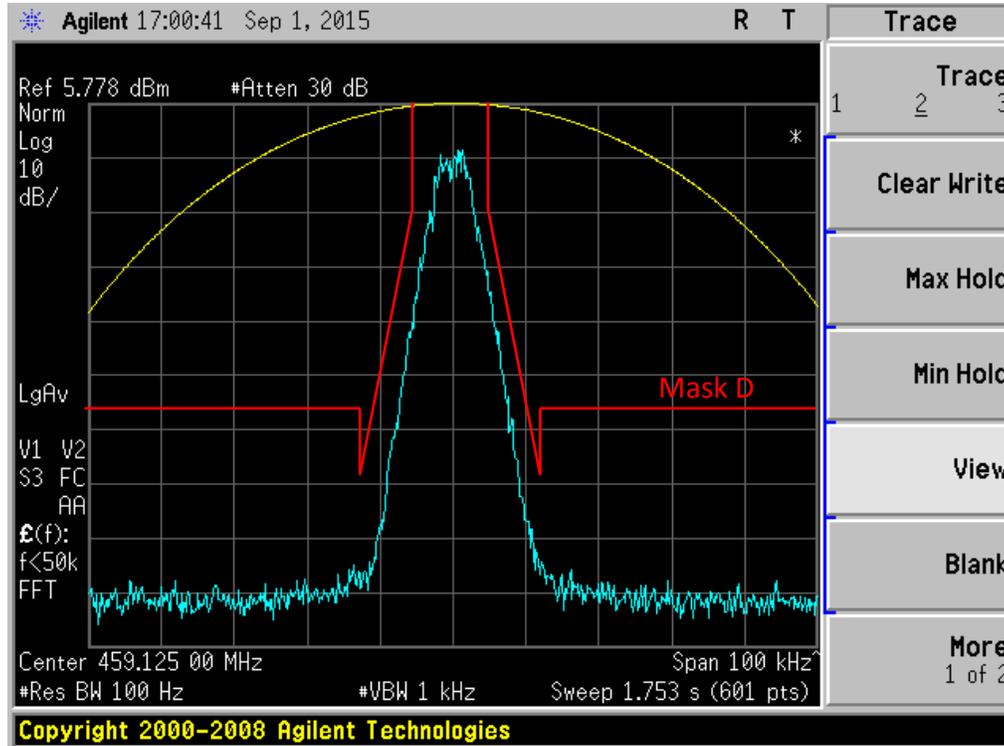


Figure 6E-15: 459.125 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask D

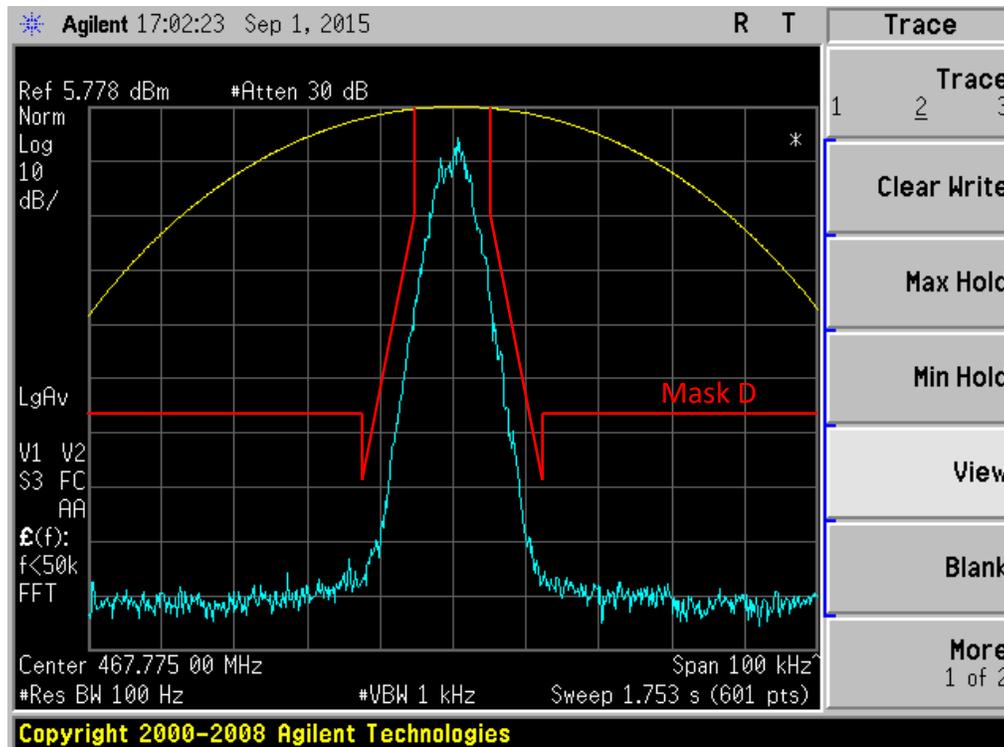


Figure 6E-16: 467.775 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask D

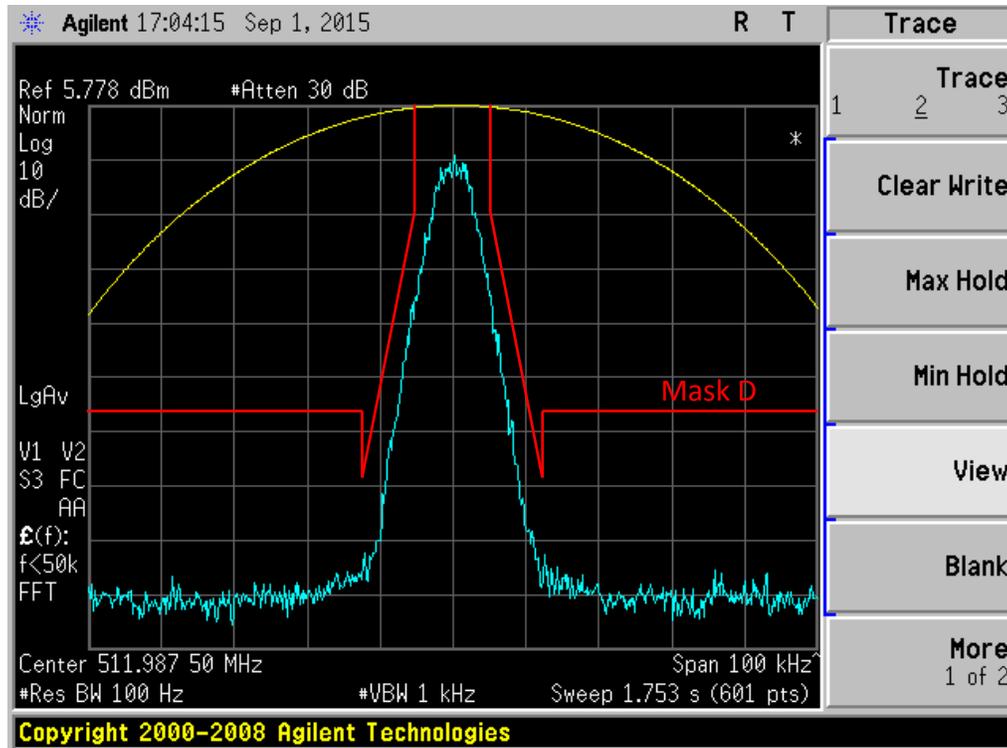


Figure 6E-17: 511.9875 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask D (Not applicable for IC)

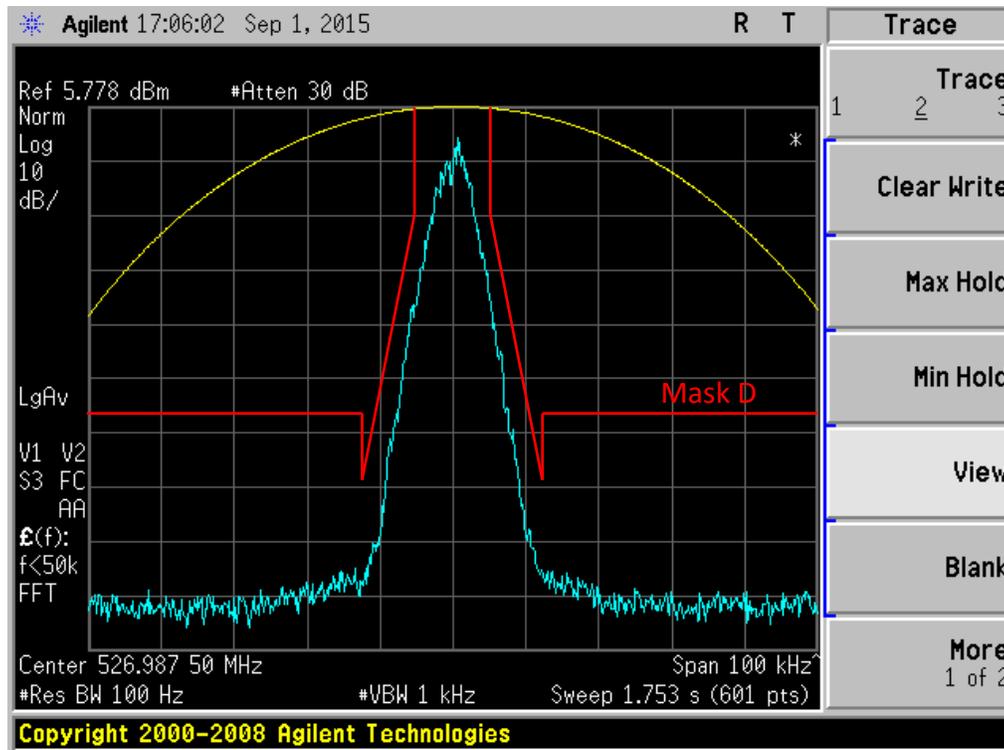


Figure 6E-18: 526.9875 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask D (Not applicable for FCC/IC)

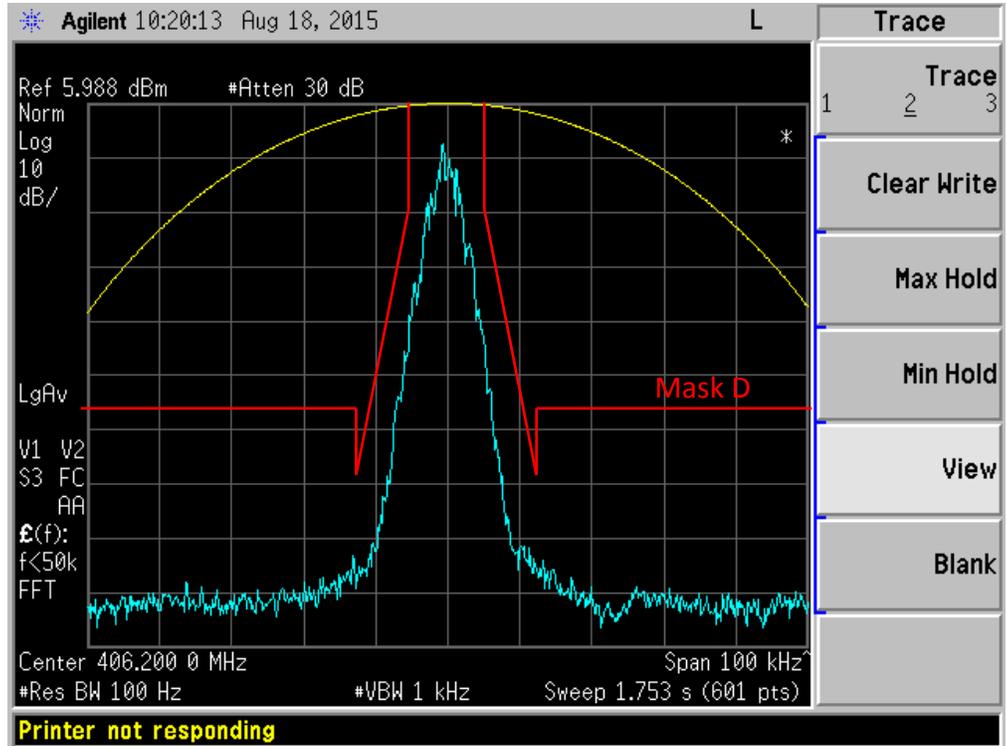


Figure 6E-19: 406.2 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask D

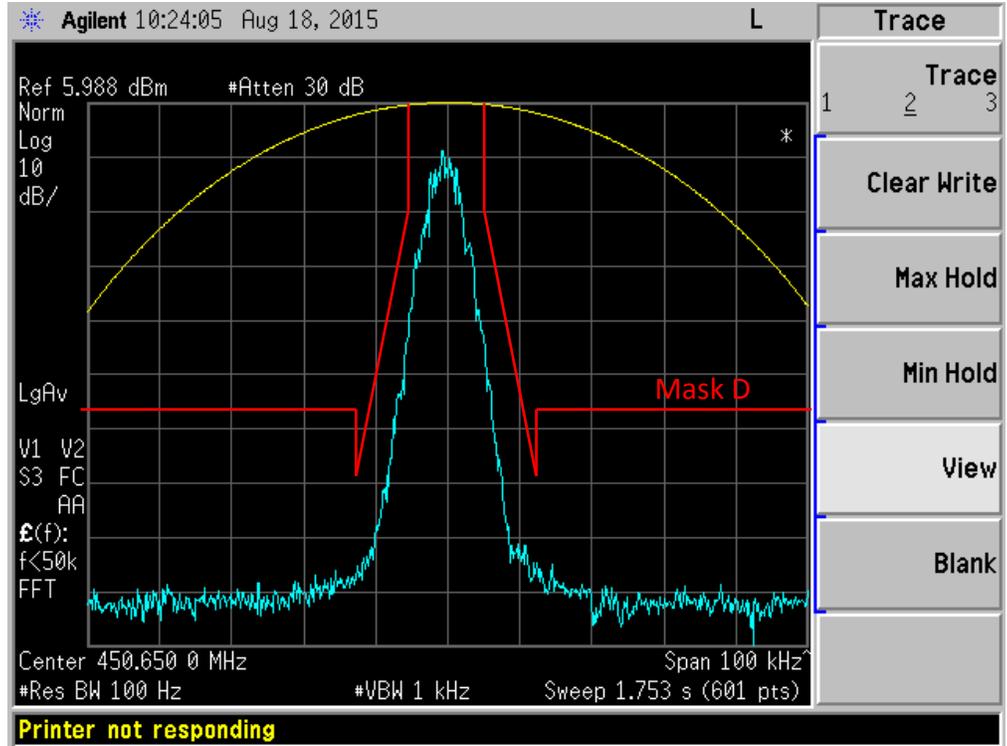


Figure 6E-20: 450.65 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask D

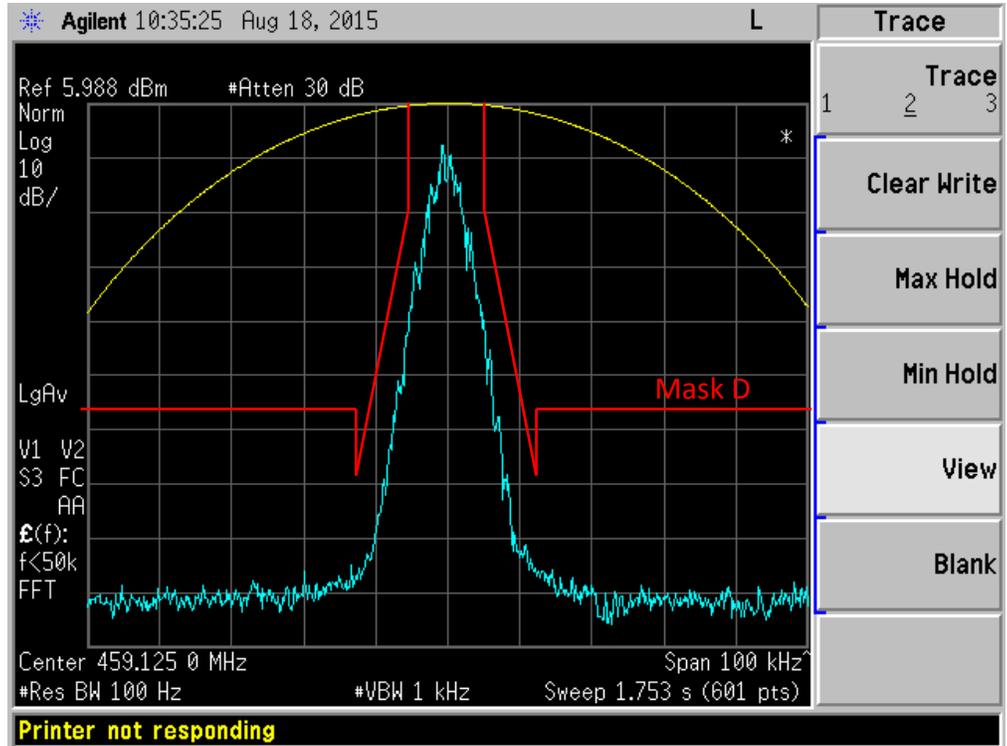


Figure 6E-21: 459.125 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask D

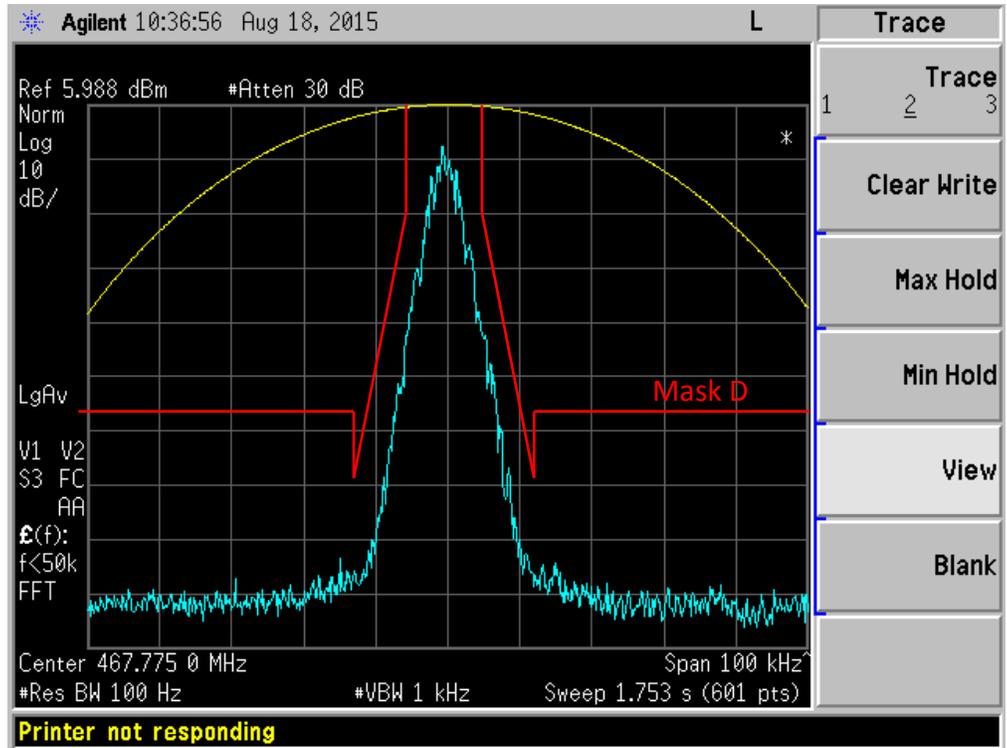


Figure 6E-22 467.775 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask D

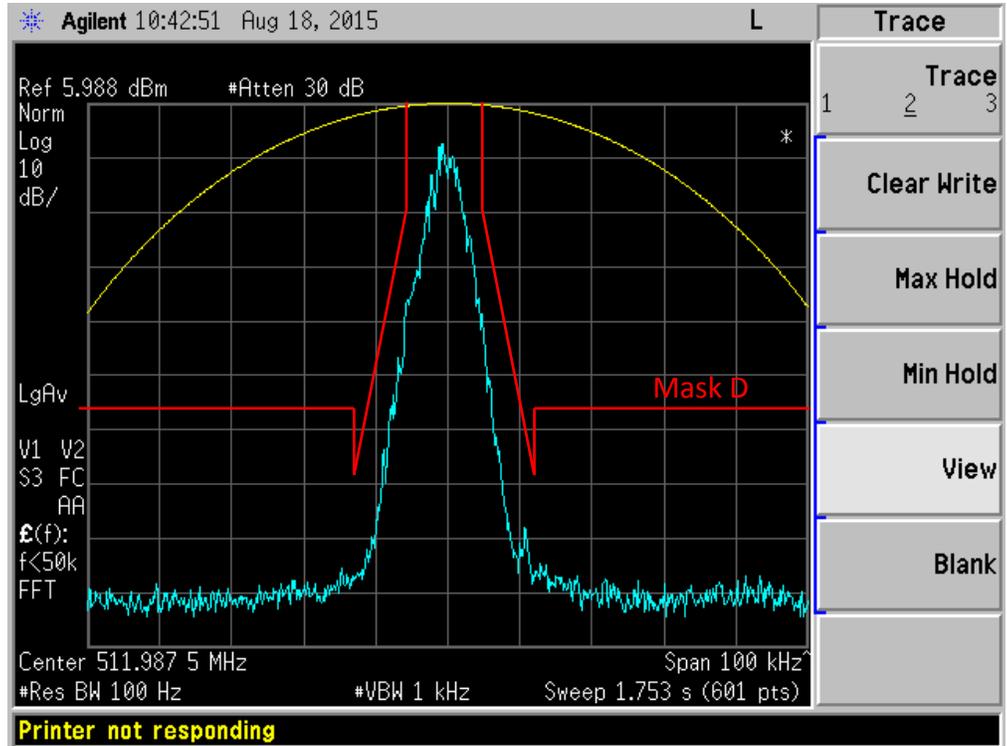


Figure 6E-23: 511.9875 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask D (Not applicable for IC)

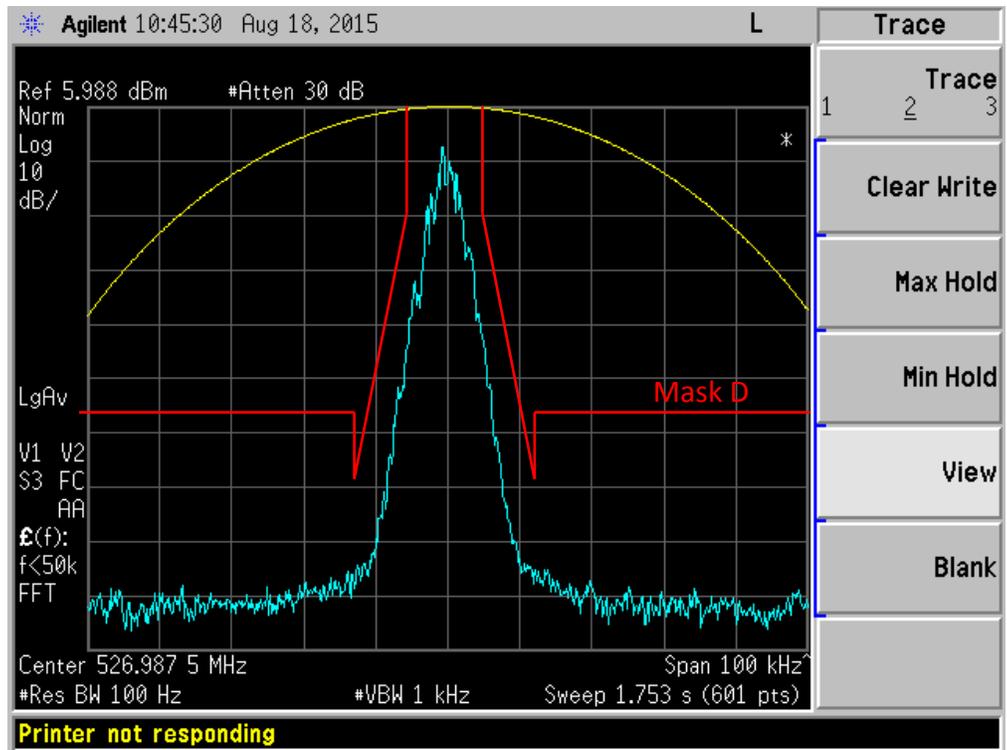


Figure 6E-24: 526.9875 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask D (Not applicable for FCC/IC)

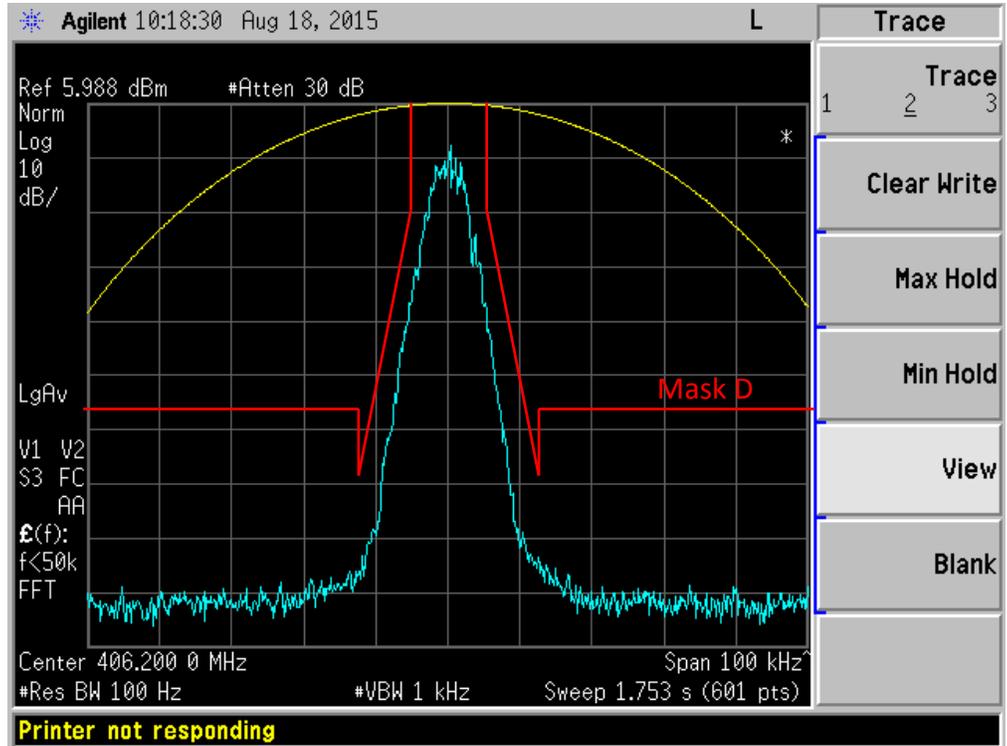


Figure 6E-25: 406.2 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation Only, 7K60F1W Mask D

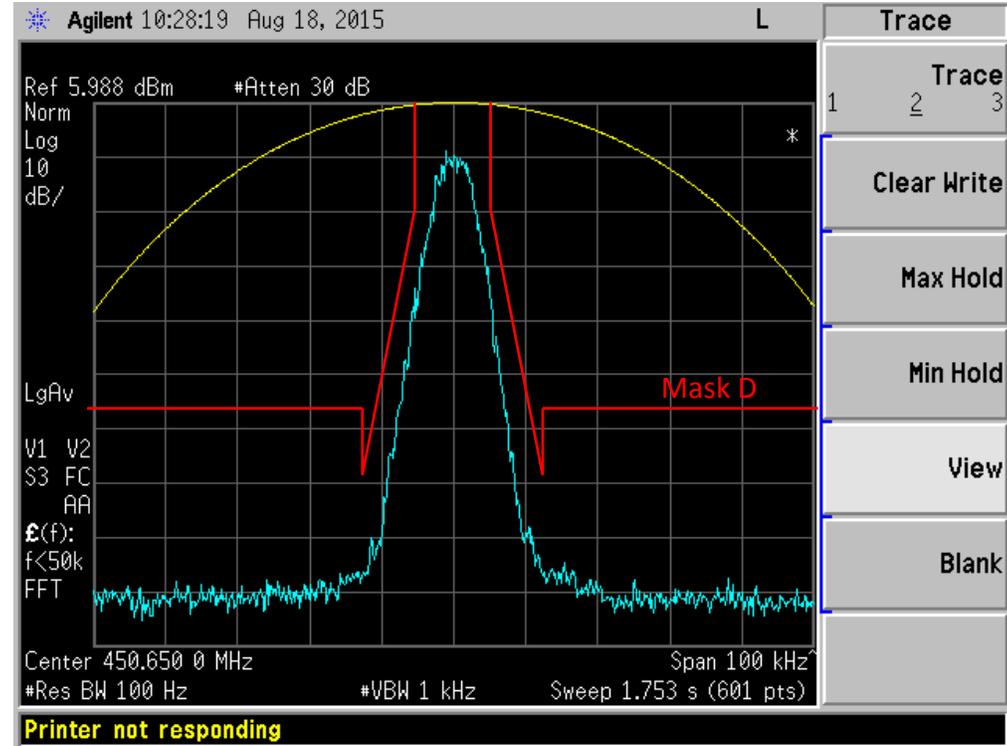


Figure 6E-26: 450.65 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation Only, 7K60F1W Mask D

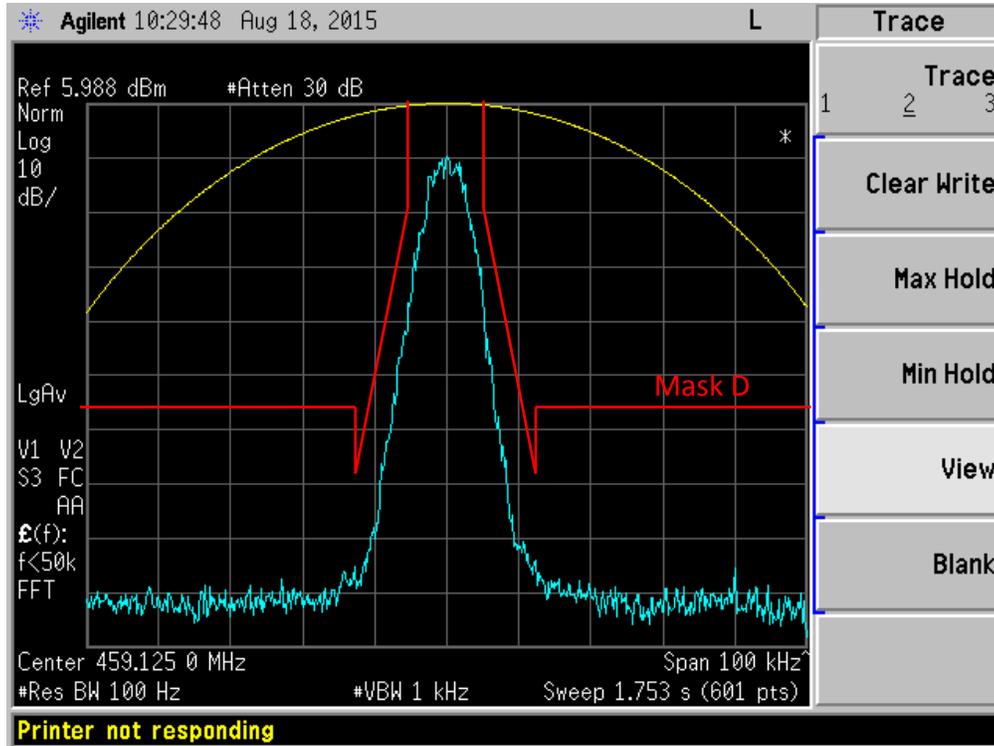


Figure 6E-27: 459.125 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation Only, 7K60F1W Mask D

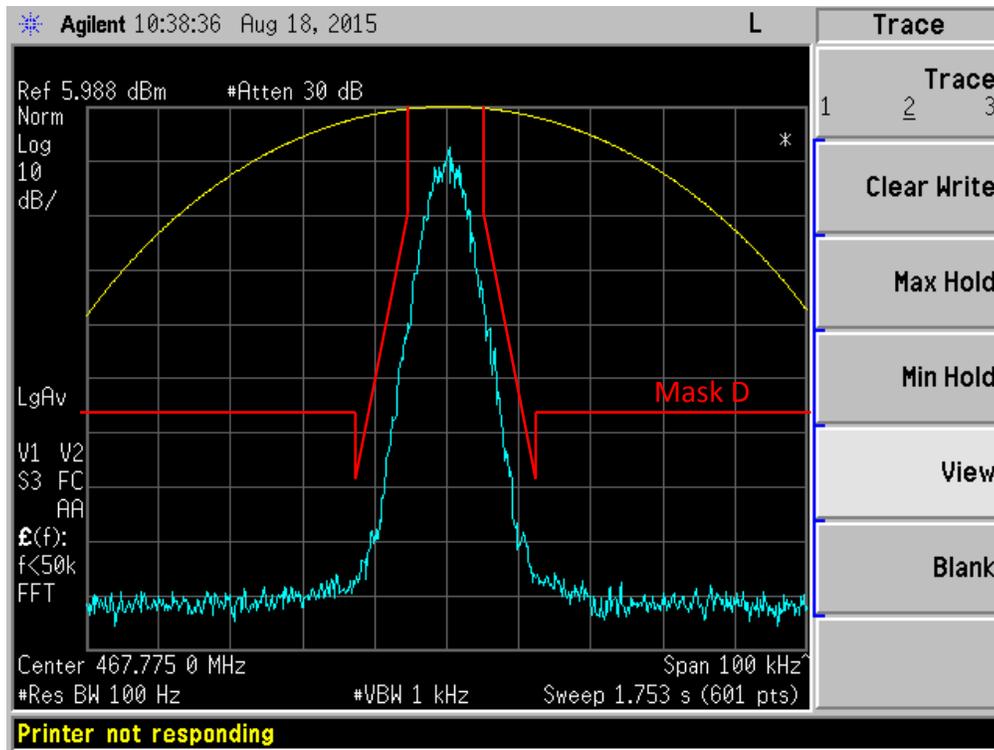
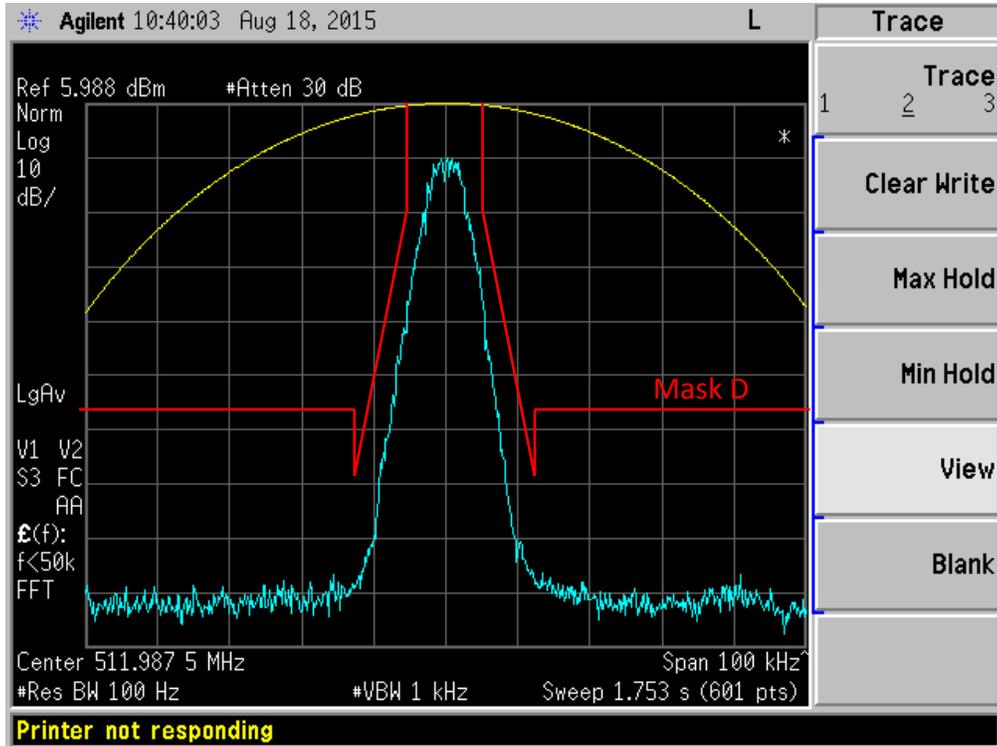


Figure 6E-28: 467.775 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation Only, 7K60F1W Mask D



F Figure 6E-29: 511.9875 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation Only, 7K60F1W Mask D (Not applicable for IC)

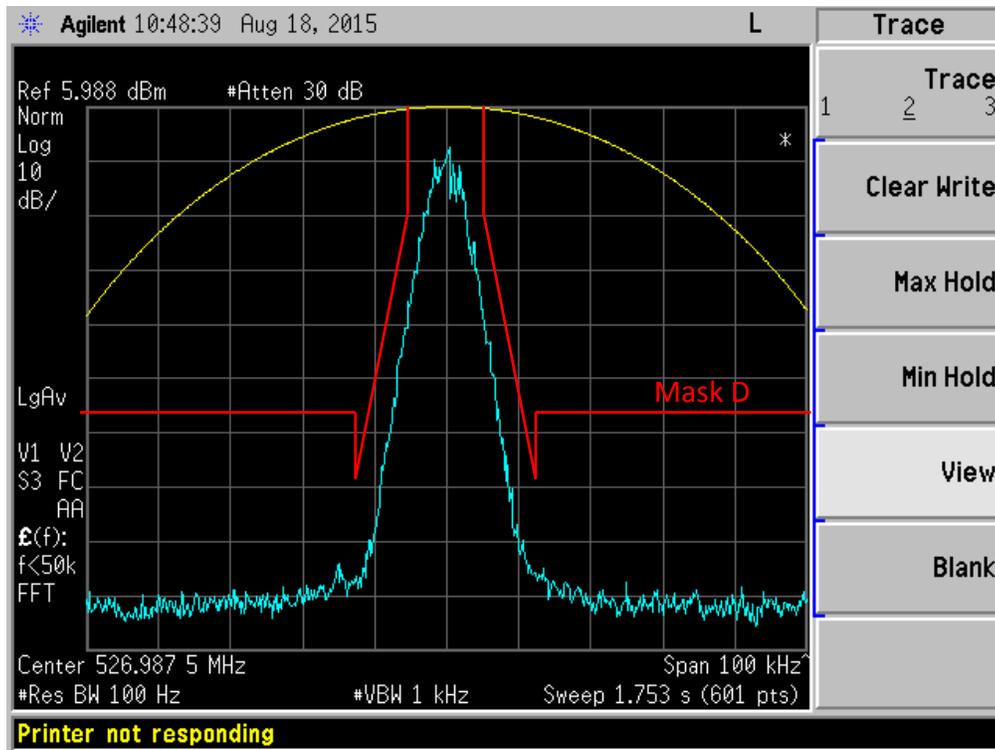
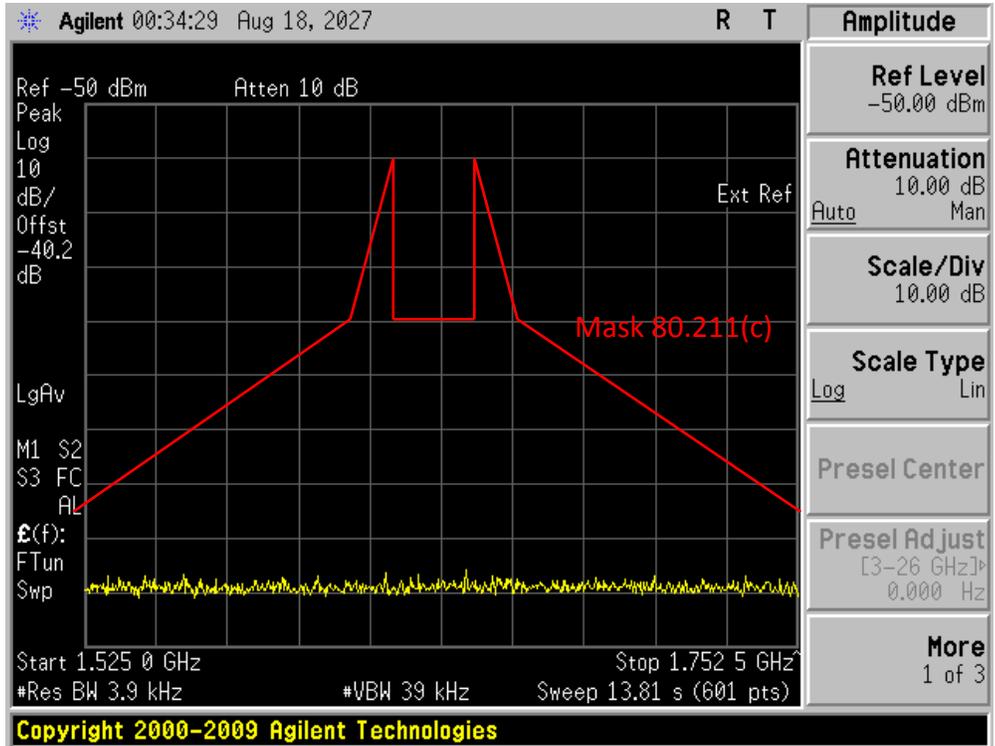


Figure 6E-30: 526.9875 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation Only, 7K60F1W Mask D (Not applicable for FCC/IC)



**Figure 6E-31:** 467.775 MHz, 25 kHz, 2500 Hz Audio Modulation Only, 16K0F3E Mask B, Mask 80.211(c)  
**Note:** Transmit power normalized to 0dB. Measurement taken with 40Hz resolution bandwidth and data shown has been corrected by 20dB to correlate with ~4kHz resolution bandwidth.

**99% Bandwidth Power**

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

| Description   | Bandwidth Power (99%) |
|---|-----------------------|
| Carrier, 4FSK data, O.153 test pattern, 7K60F1D, 7K60F1E, 7K60F1W, 7K60FXD, 7K60FXE | 7.403kHz              |
| Carrier, 2500 Hz Audio only 12.5kHz channel, 11K0F3E                                | 9.834kHz              |
| Carrier, 2500 Hz Audio only 25kHz channel, 16K0F3E                                  | 14.8849kHz            |

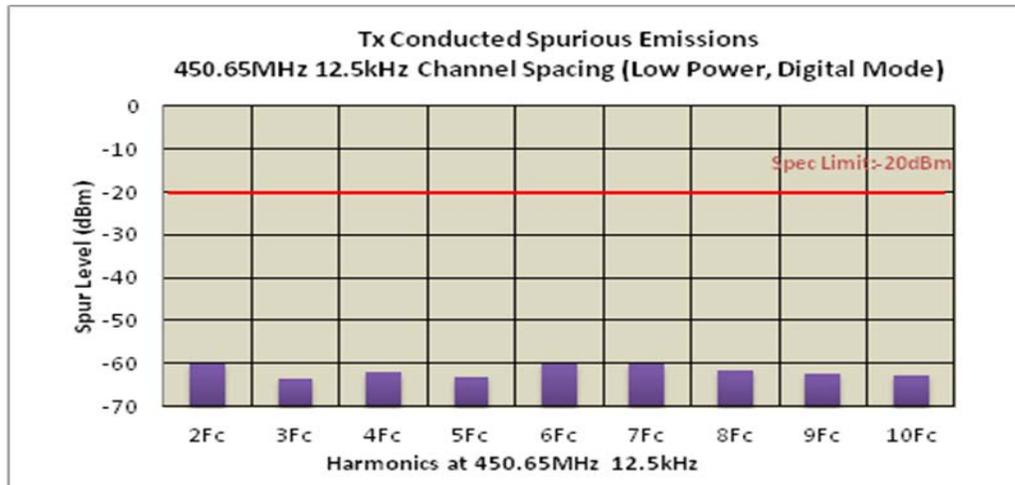
**\*\*NOTE:-**

- For 4FSK Digital Modulation, 12.5kHz Data 7K60F1D & 7K60FXD would be the same. Therefore only measurements with 7K60F1D shown above.
- For 4FSK Digital Modulation, 12.5kHz Data 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 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
- All OBW plots were tested at max power

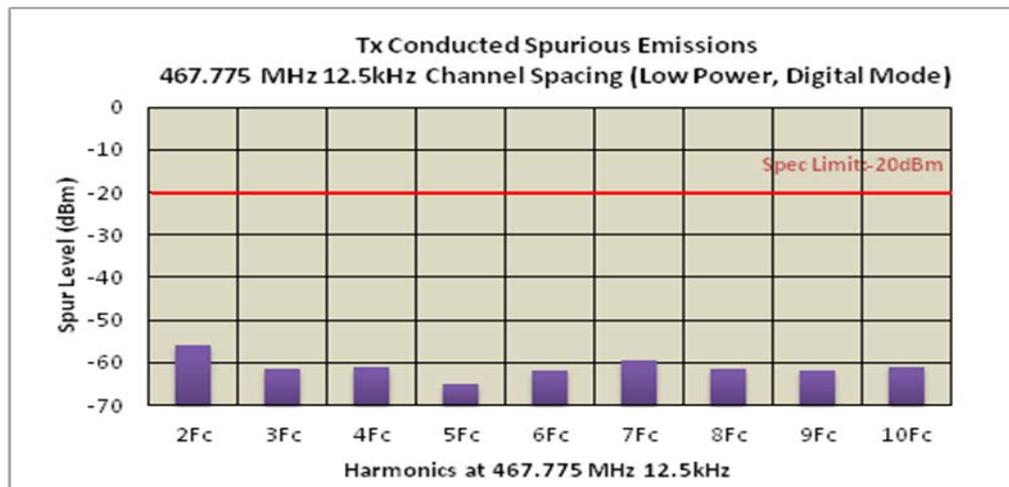
**EXHIBIT 6F**

**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:** 1W Harmonic of Carrier 450.65 MHz, 12.5 kHz Channel Spacing, Digital Mode



**Figure 6F-2:** 1W Harmonic of Carrier 467.775 MHz, 12.5 kHz Channel Spacing, Digital Mode

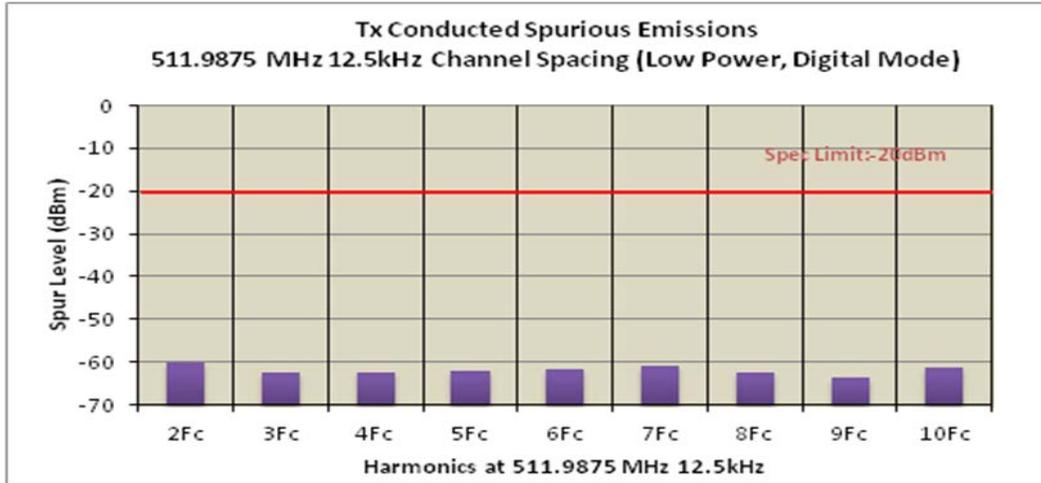


Figure 6F-3: 1W Harmonic of Carrier 511.9875 MHz, 12.5 kHz Channel Spacing, Digital Mode (Not applicable for IC)

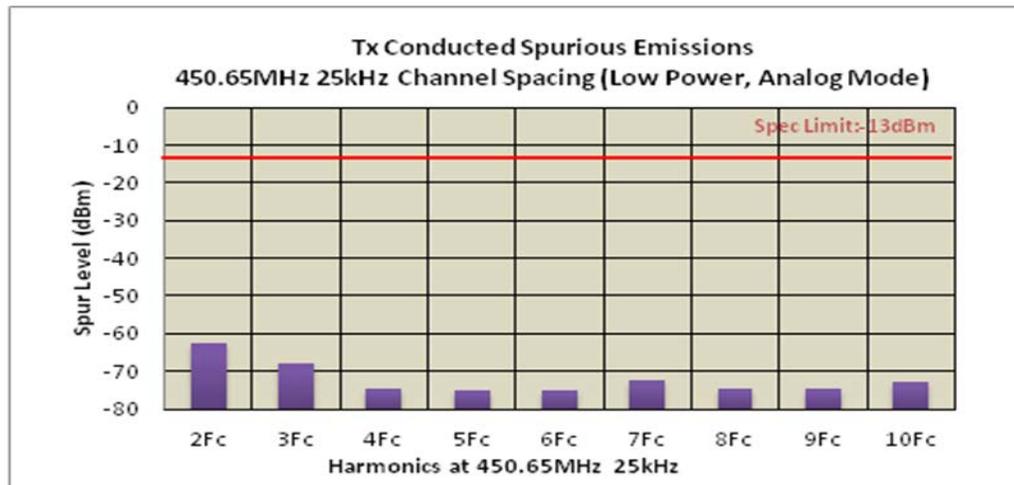


Figure 6F-4: 1W Harmonic of Carrier 450.65 MHz, 25 kHz Channel Spacing, Analog Mode

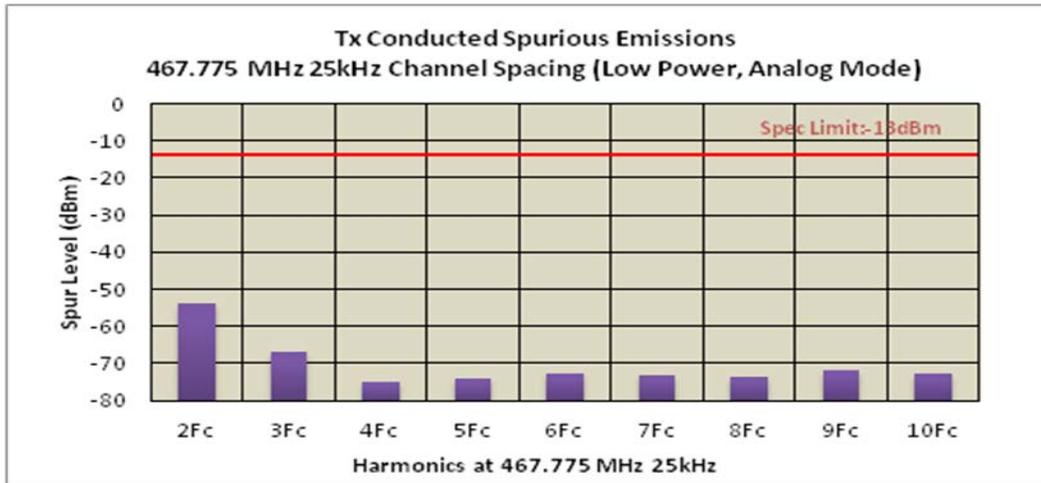


Figure 6F-5: 1W Harmonic of Carrier 467.775 MHz, 25 kHz Channel Spacing, Analog Mode

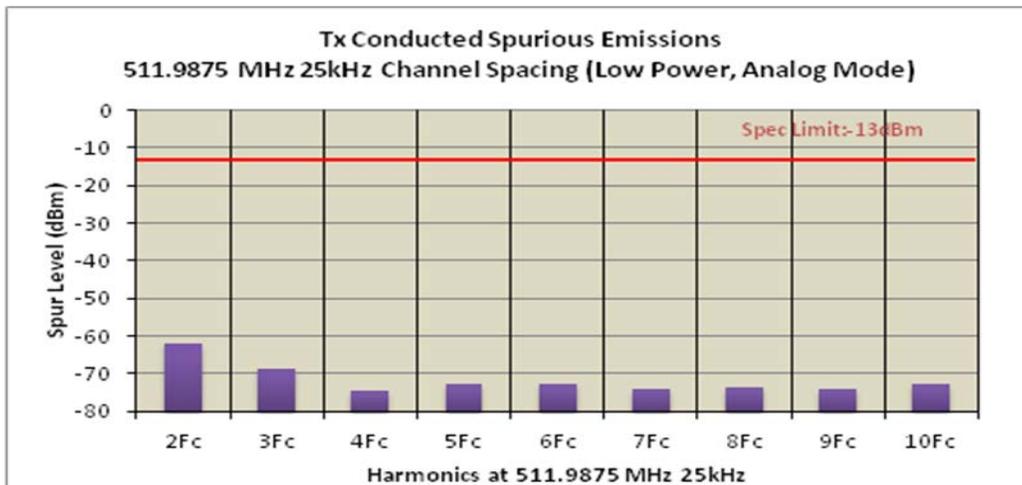


Figure 6F-6: 1W Harmonic of Carrier 511.9875 MHz, 25 kHz Channel Spacing, Analog Mode (Not applicable for IC)

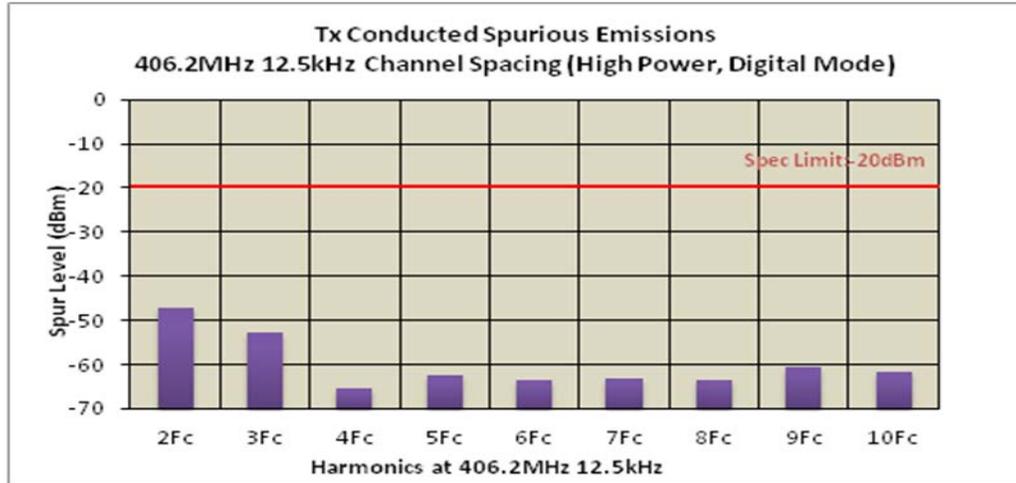


Figure 6F-7: 4.8W Harmonic of Carrier 406.2 MHz, 12.5 kHz Channel Spacing, Digital Mode

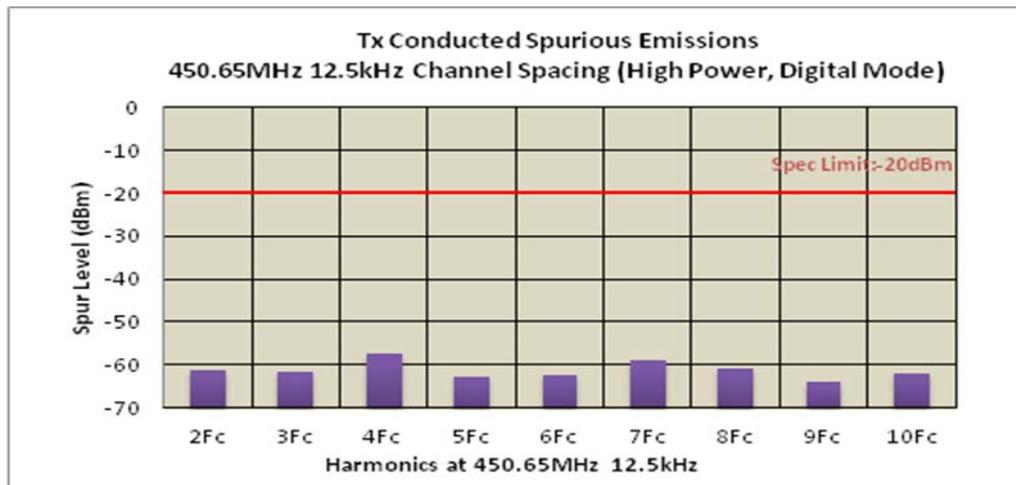


Figure 6F-8: 4.8W Harmonic of Carrier 450.65 MHz, 12.5 kHz Channel Spacing, Digital Mode

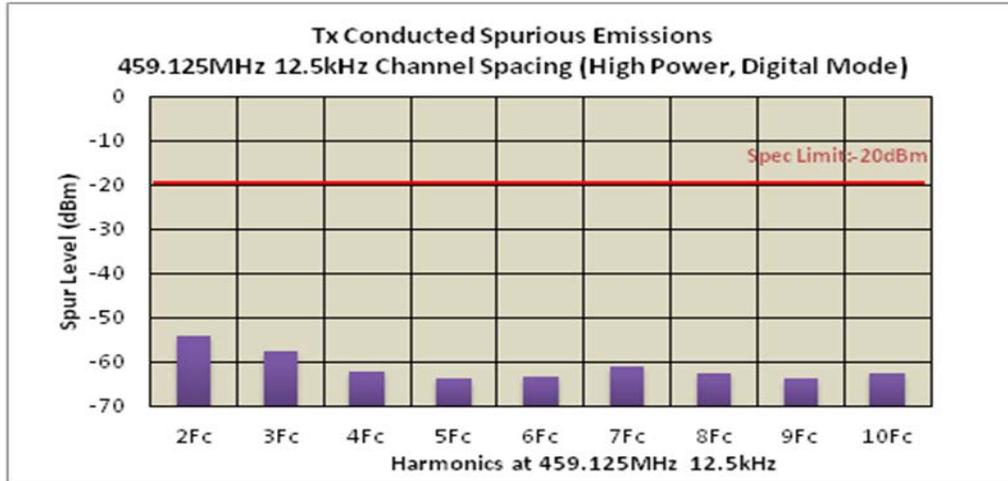


Figure 6F-9: 4.8W Harmonic of Carrier 459.125 MHz, 12.5 kHz Channel Spacing, Digital Mode

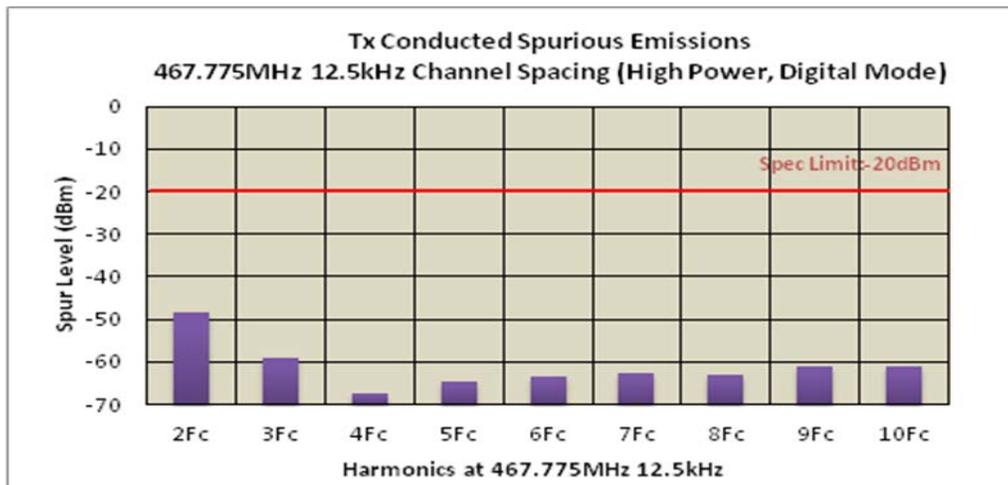


Figure 6F-10: 4.8W Harmonic of Carrier 467.775 MHz, 12.5 kHz Channel Spacing, Digital Mode

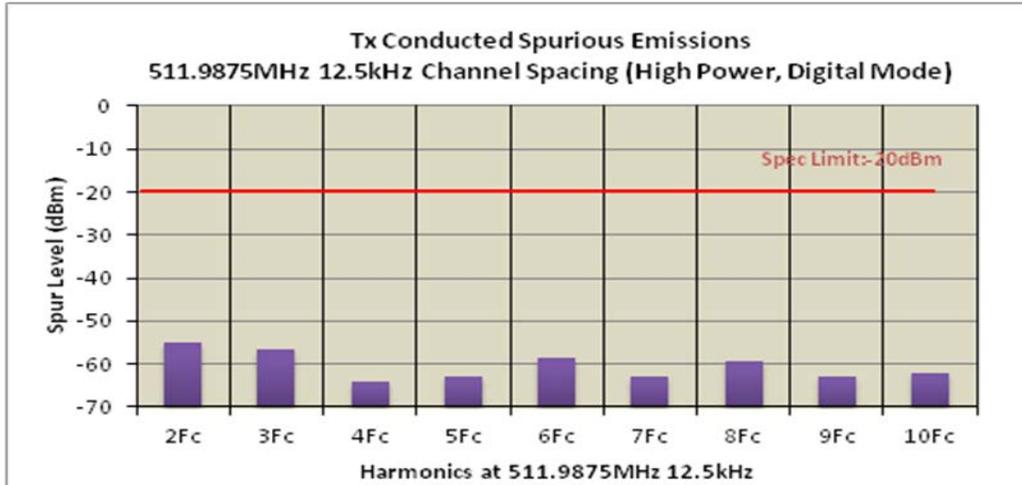


Figure 6F-11: 4.8W Harmonic of Carrier 511.9875 MHz, 12.5 kHz Channel Spacing, Digital Mode (Not applicable for IC)

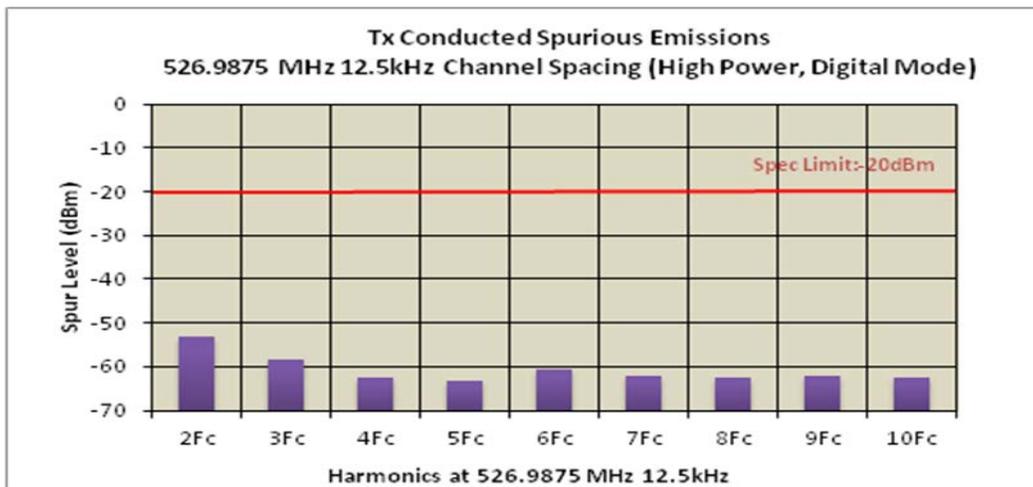


Figure 6F-12: 4.8W Harmonic of Carrier 526.9875 MHz, 12.5 kHz Channel Spacing, Digital Mode (Not applicable for FCC/IC)

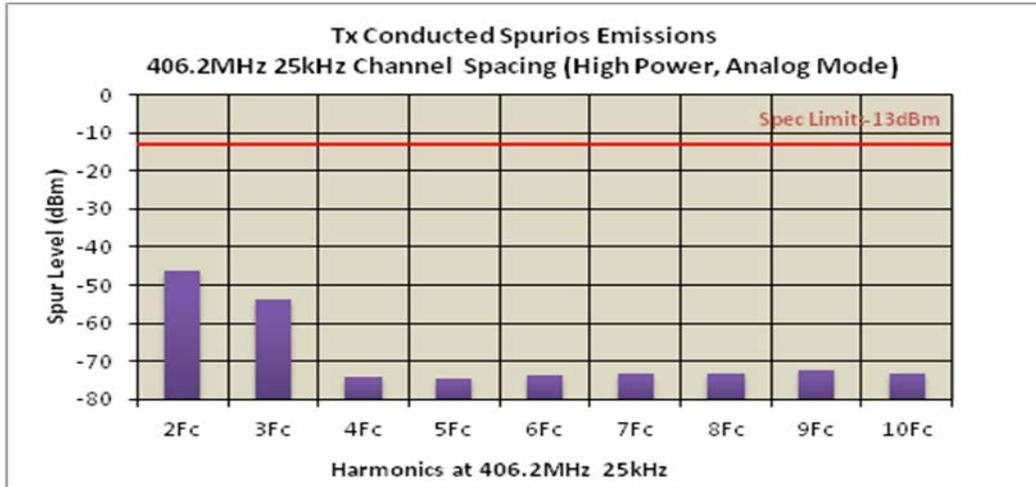


Figure 6F-13: 4.8W Harmonic of Carrier 406.2 MHz, 25 kHz Channel Spacing, Analog Mode (Not applicable for FCC)

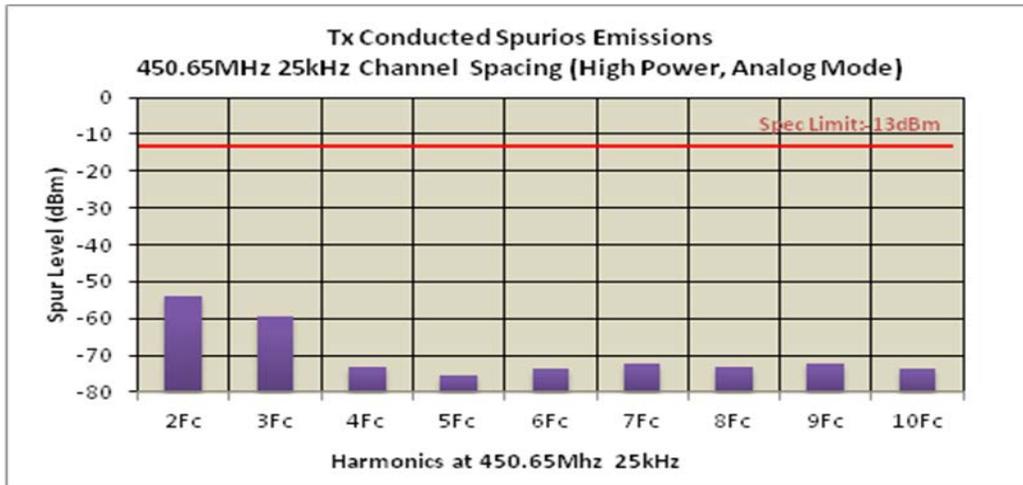


Figure 6F-14: 4.8W Harmonic of Carrier 450.65 MHz, 25 kHz Channel Spacing, Analog Mode

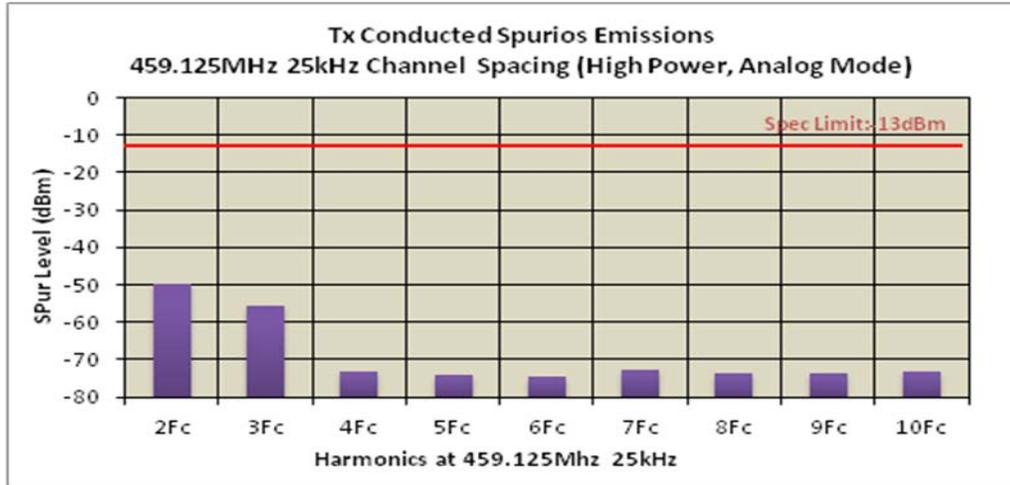


Figure 6F-15: 4.8W Harmonic of Carrier 459.125 MHz, 25 kHz Channel Spacing, Analog Mode

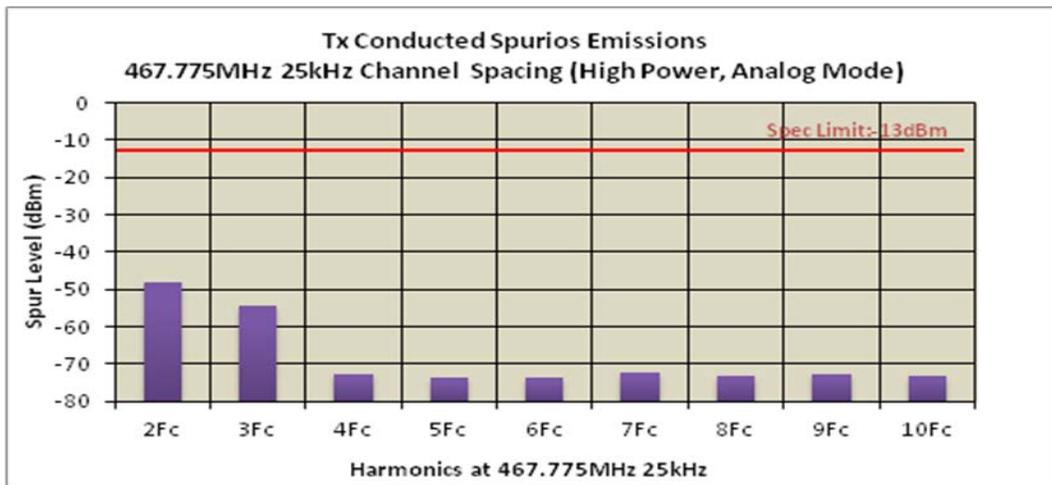


Figure 6F-16: 4.8W Harmonic of Carrier 467.775 MHz, 25 kHz Channel Spacing, Analog Mode

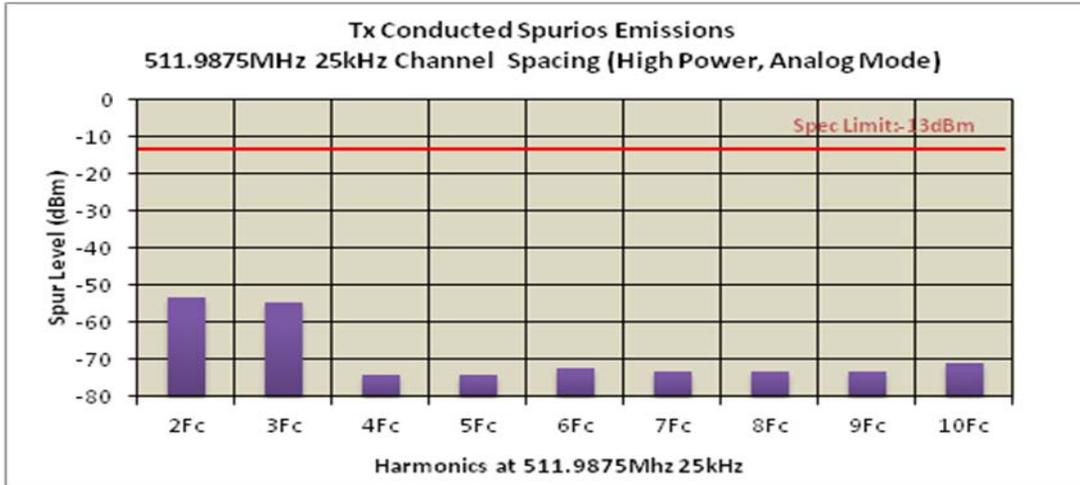


Figure 6F-17: 4.8W Harmonic of Carrier 511.9875 MHz, 25 kHz Channel Spacing, Analog Mode (Not applicable for IC)

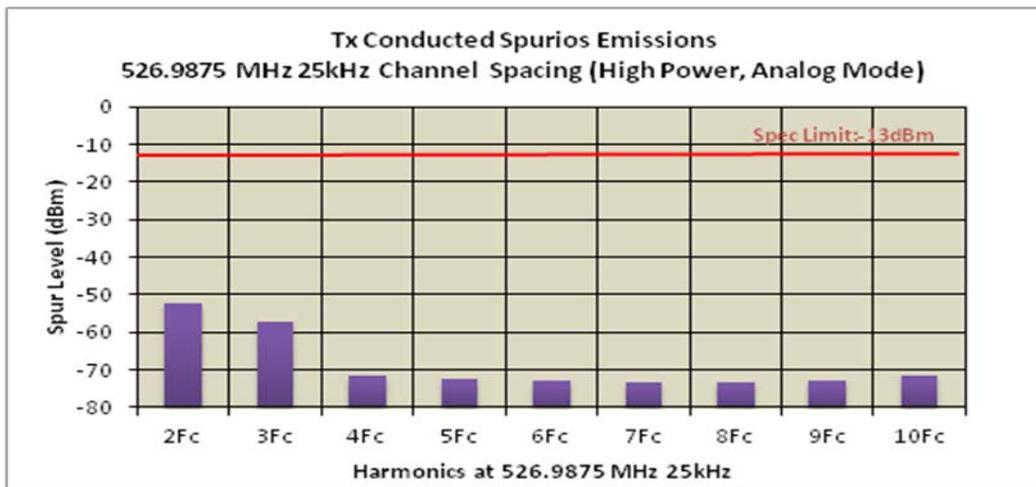


Figure 6F-18: 4.8W Harmonic of Carrier 526.9875 MHz, 25 kHz Channel Spacing, Analog Mode (Not applicable for FCC/IC)































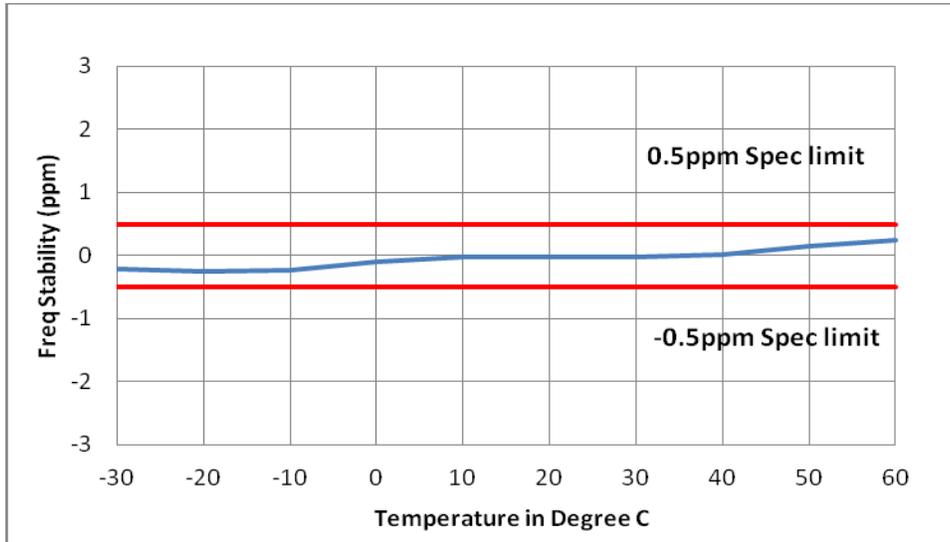




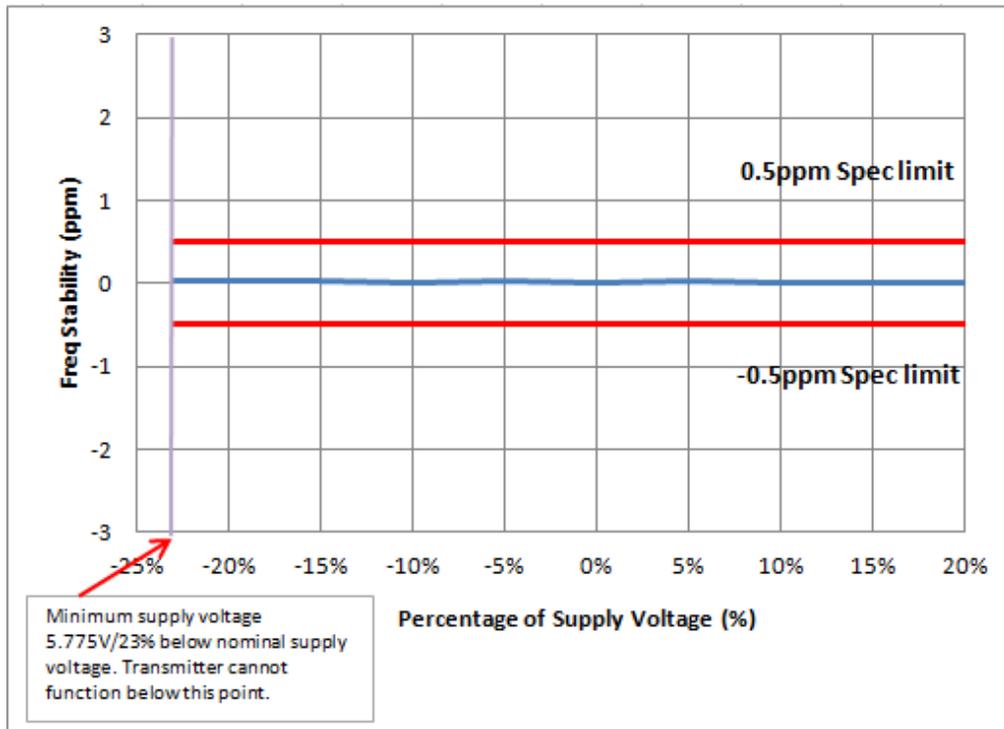


**EXHIBIT 6H**

**Frequency Stability**



**Figure 6H-1:** 467.775 MHz, 0.5 ppm Frequency Stability vs. Temperature



**Figure 6H-2:** 467.775 MHz, 0.5 ppm Frequency Stability vs. Supply Voltage

EXHIBIT 6I

TRANSIENT FREQUENCY BEHAVIOR

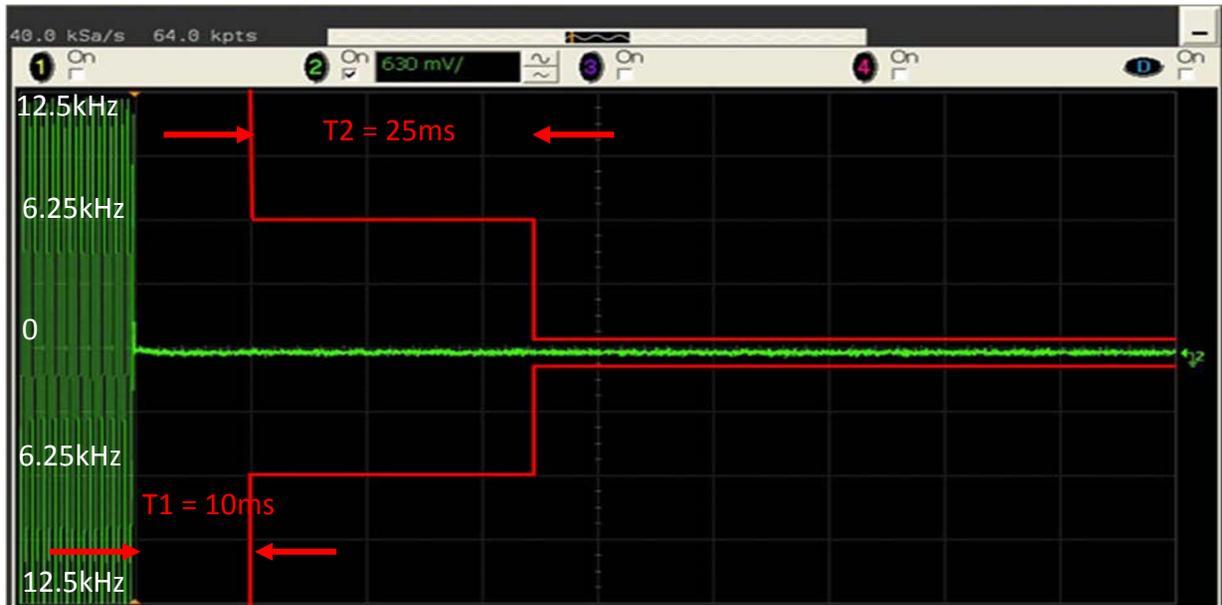


Figure 6I-1: TX 467.775 MHz – 12.5 kHz Channel Spacing – Transmitters On

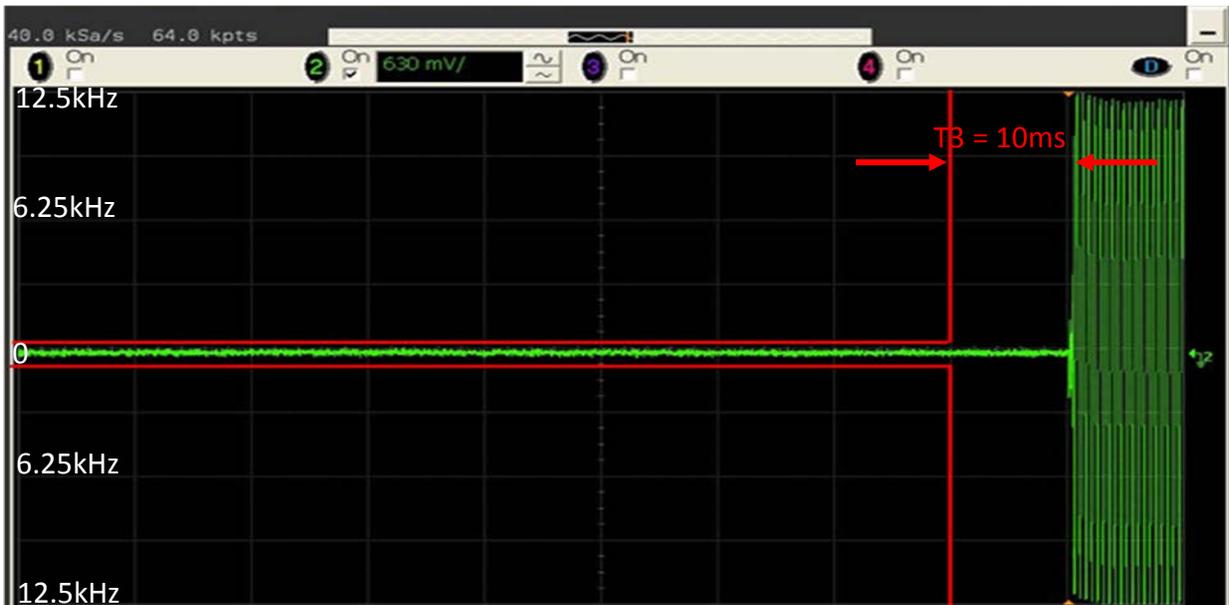


Figure 6I-2: TX 467.775 MHz – 12.5 kHz Channel Spacing – Transmitters Off

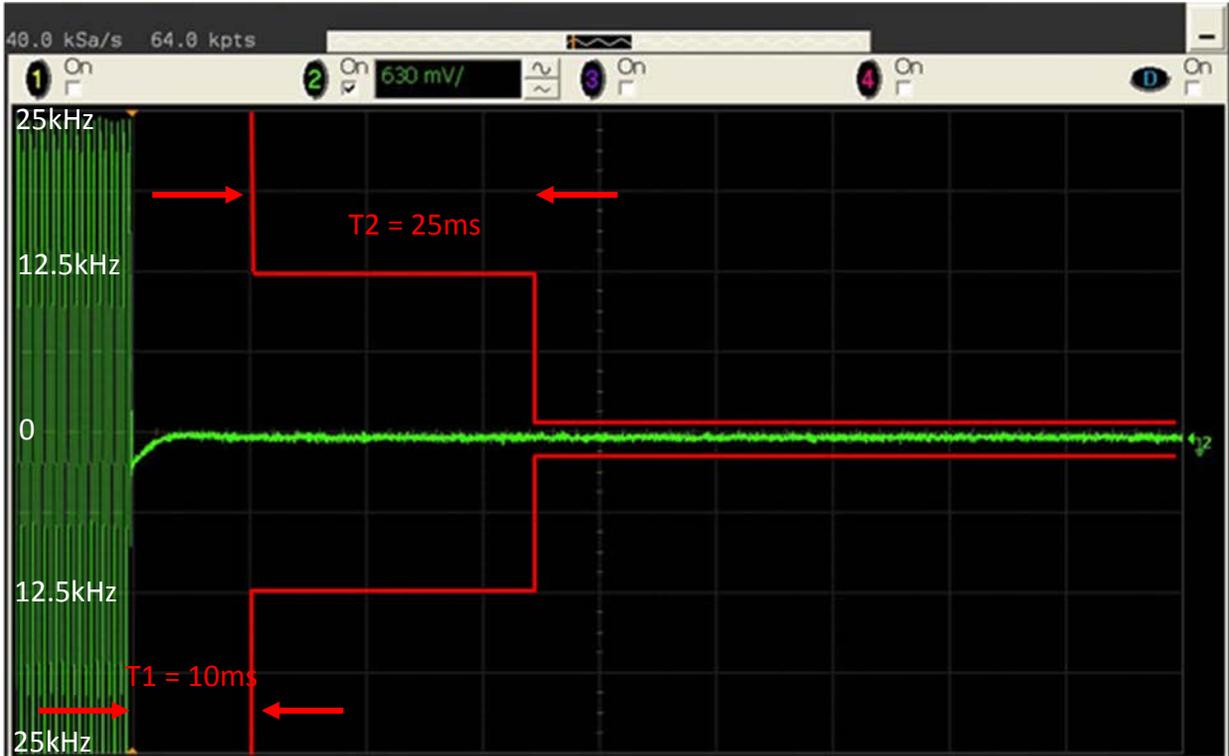


Figure 6I-3: TX 467.775 MHz – 25 kHz Channel Spacing – Transmitters On



Figure 6I-4: TX 467.775 MHz – 25 kHz Channel Spacing – Transmitters Off