

EXHIBIT 6

INDEX OF SUBMITTED MEASURED DATA

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

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- 6B-2 –153.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)

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EXHIBIT 6F – Conducted Spurious Emissions

- 6F-1 – 6W Harmonic of Carrier 138.0125 MHz, 12.5 kHz Channel Spacing (Not for FCC Review)
- 6F-2 – 6W Harmonic of Carrier 153.0125 MHz, 12.5 kHz Channel Spacing
- 6F-3 – 6W Harmonic of Carrier 162.0125 MHz, 12.5 kHz Channel Spacing
- 6F-4 – 6W Harmonic of Carrier 173.0125 MHz, 12.5 kHz Channel Spacing
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EXHIBIT 6G – Radiated Spurious Emissions

- 6G-1 – 6W Harmonic of Carrier 138.0125 MHz, 12.5 kHz Channel Spacing
- 6G-2 – 6W Harmonic of Carrier 153.0125 MHz, 12.5 kHz Channel Spacing
- 6G-3 – 6W Harmonic of Carrier 162.0125 MHz, 12.5 kHz Channel Spacing
- 6G-4 – 6W Harmonic of Carrier 173.0125 MHz, 12.5 kHz Channel Spacing
- 6G-5 – 6W Harmonic of Carrier 138.0125 MHz, 25 kHz Channel Spacing
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6G-7 – 6W Harmonic of Carrier 162.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)
6G-8 – 6W Harmonic of Carrier 173.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)

EXHIBIT 6H – Frequency Stability (Volt/Temp)

6H-1– 153.0125 MHz vs. Supply Voltage
6H-2– 153.0125 MHz vs. Temperature

EXHIBIT 6I – Transient Frequency Behavior

6I-1 – 153.0125 MHz, 12.5 kHz Channel Spacing – Transmitter On
6I-2 – 153.0125 MHz, 12.5 kHz Channel Spacing – Transmitter Off
6I-3 – 153.0125 MHz, 25 kHz Channel Spacing – Transmitter On (Not for FCC Review)
6I-4 – 153.0125 MHz, 25 kHz Channel Spacing – Transmitter Off (Not for FCC Review)

** Please note that the above data were taken following the procedures and limits outlined in TIA 603-D, RSS 119 and RSS 182 during the month of March2013. See Table 2 in Ex07_test procedures

Radio model tested: AAH69JDC9KA2AN

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

EXHIBIT 6A

RF Conducted Power Output Data

Frequency = 138.0125 MHz: (Not for FCC Review)

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.71 Amps

Output RF power	6.00 Watts
DC Voltage	7.50 Volts
DC Current	1.63 Amps

Frequency = 153.0125 MHz:

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.66 Amps

Output RF power	6.00 Watts
DC Voltage	7.50 Volts
DC Current	1.56 Amps

Frequency= 162.0125 MHz:

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.63 Amps

Output RF power	6.00 Watts
DC Voltage	7.50 Volts
DC Current	1.59 Amps

Frequency = 173.0125 MHz:

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.70 Amps

Output RF power	6.00 Watts
DC Voltage	7.50 Volts
DC Current	1.72 Amps

EXHIBIT 6B

Transmit Audio Frequency Response

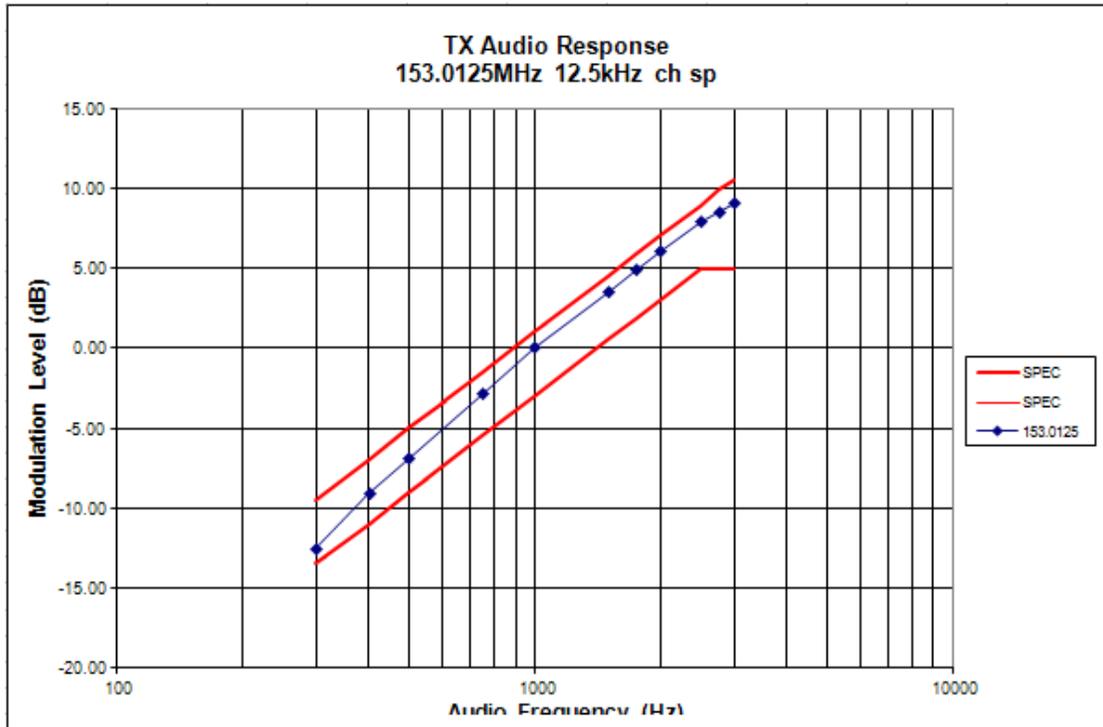


Exhibit 6B-1: 12.5 kHz Channel Spacing, 153.0125 MHz, Transmit Audio Frequency Response

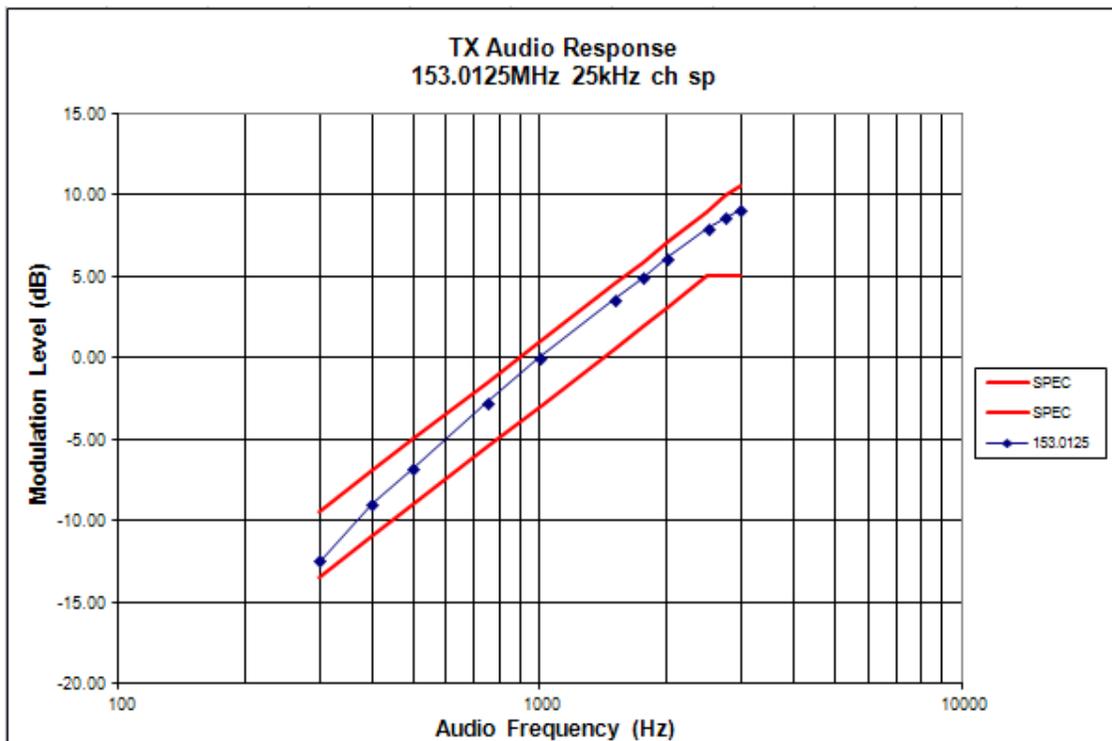


Exhibit 6B-2: 25 kHz Channel Spacing, 153.0125 MHz, Transmit Audio Frequency Response (Not for FCC Review)

EXHIBIT 6C

Transmit Audio Low Pass Filter Response

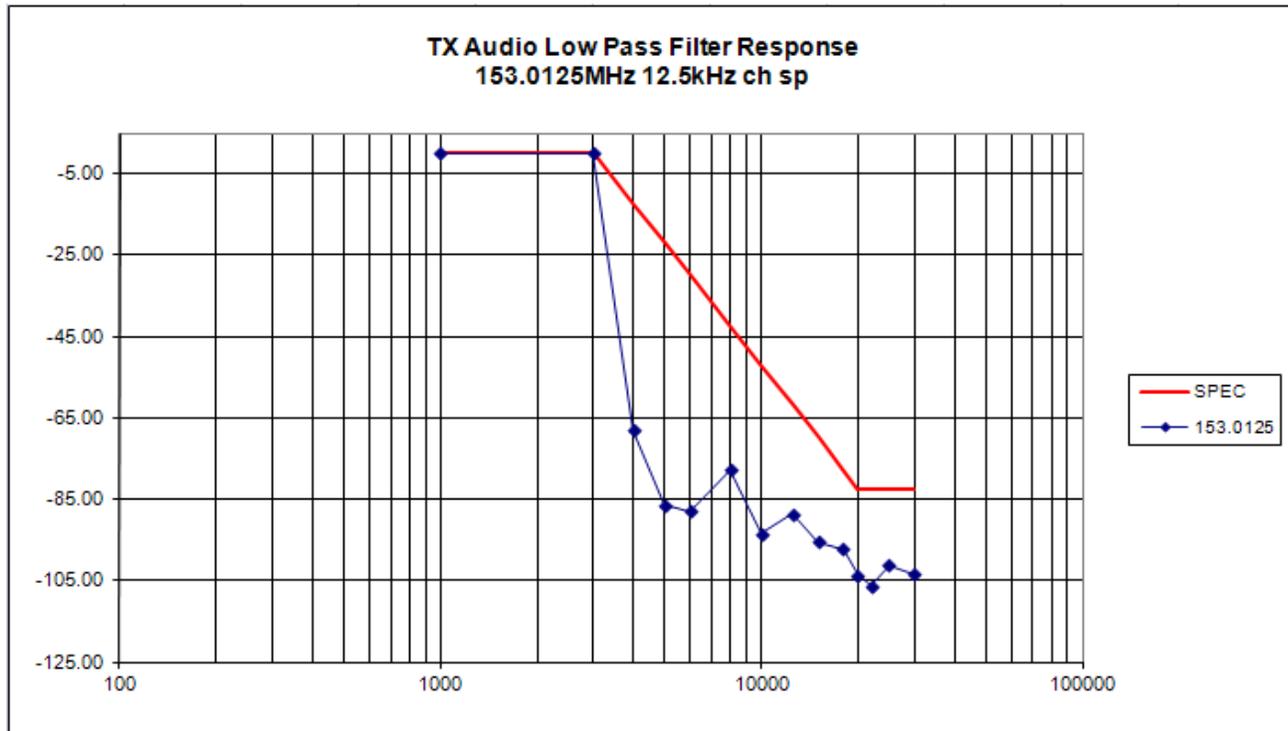


Exhibit 6C-1: 12.5 kHz Channel Spacing, 153.0125 MHz, Transmit Audio Low Pass Filter Response

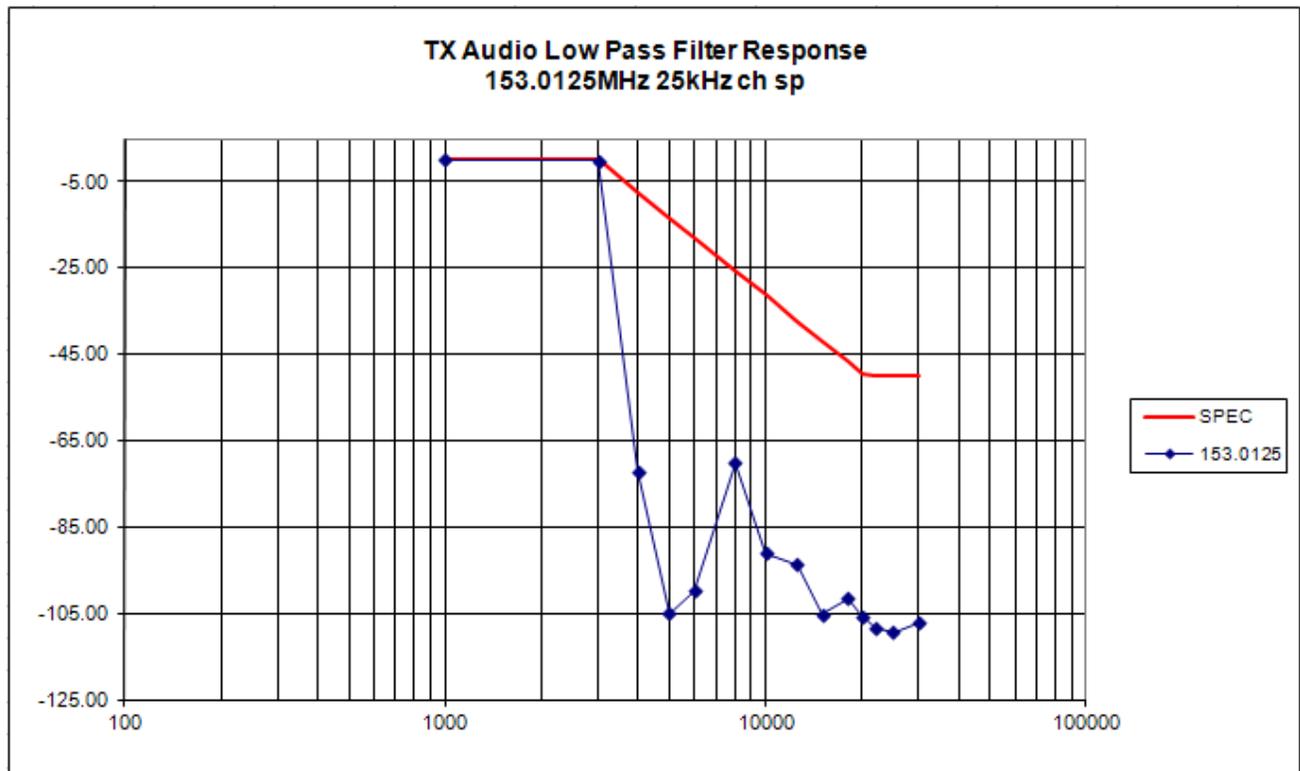


Exhibit 6C-2: 25 kHz Channel Spacing, 153.0125 MHz, Transmit Audio Low Pass Filter Response (Not for FCC Review)

EXHIBIT 6D
Modulation Limiting

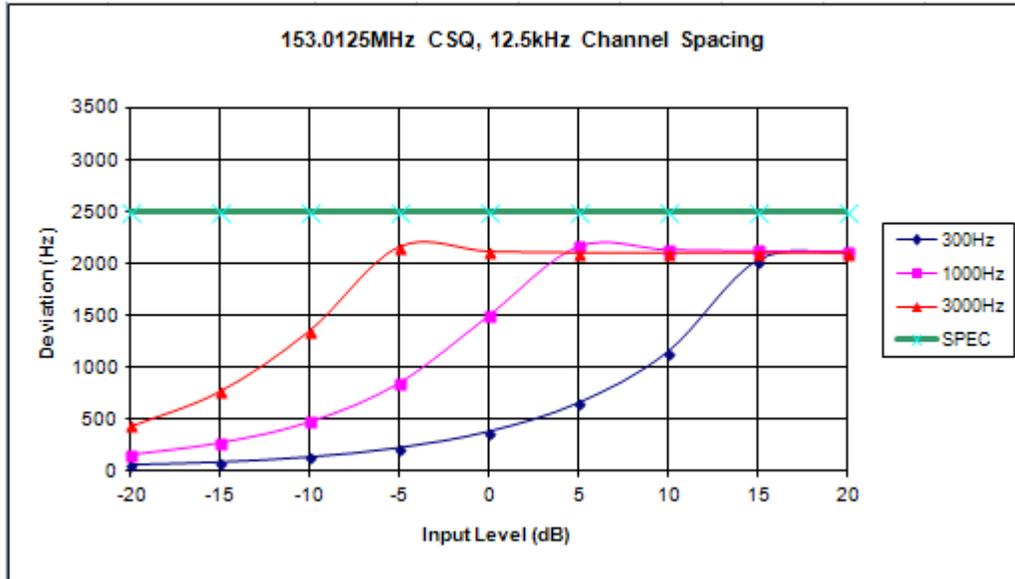


Exhibit 6D-1: 153.0125 MHz, 12.5 kHz Channel Spacing, Modulation Limiting

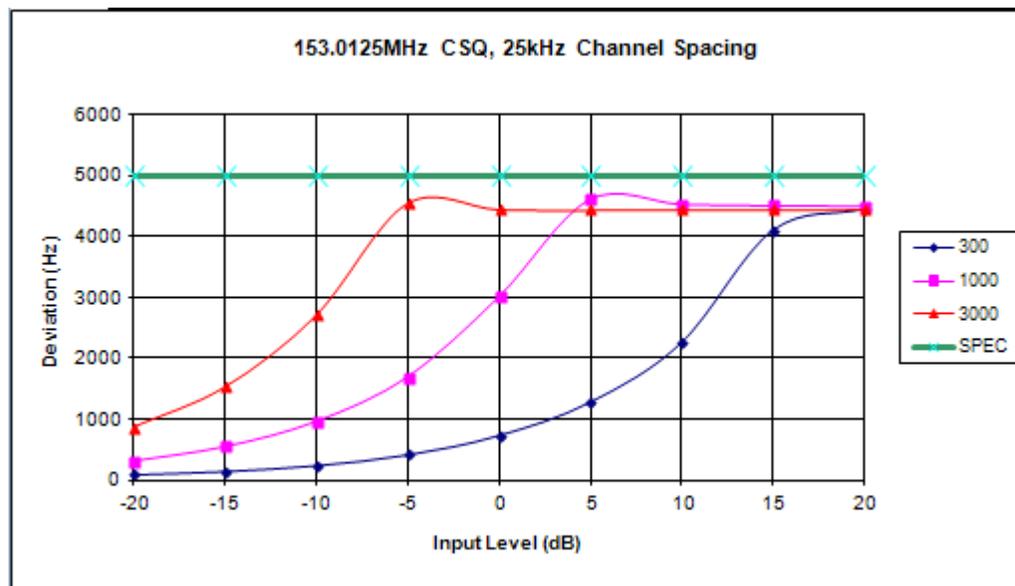


Figure 6D-2: 153.0125 MHz, 25 kHz Channel Spacing, Modulation Limiting (Not for FCC Review)

BANDWIDTH CALCULATIONS:

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

Shown below are the calculations required for FCC ID: AZ489FT3833.

Standard Audio Modulation (25 kHz Channelization, Analog Voice) (Not for FCC Review)

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..... **F**
- A single channel containing analogue information..... **3**
- Telephony (including sound broadcasting)..... **E**

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..... **F**
- A single channel containing analogue information..... **3**
- Telephony (including sound broadcasting)..... **E**

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

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 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**.

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**
- 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**.

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**
- 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**.

EXHIBIT 6E

Occupied Bandwidth Data

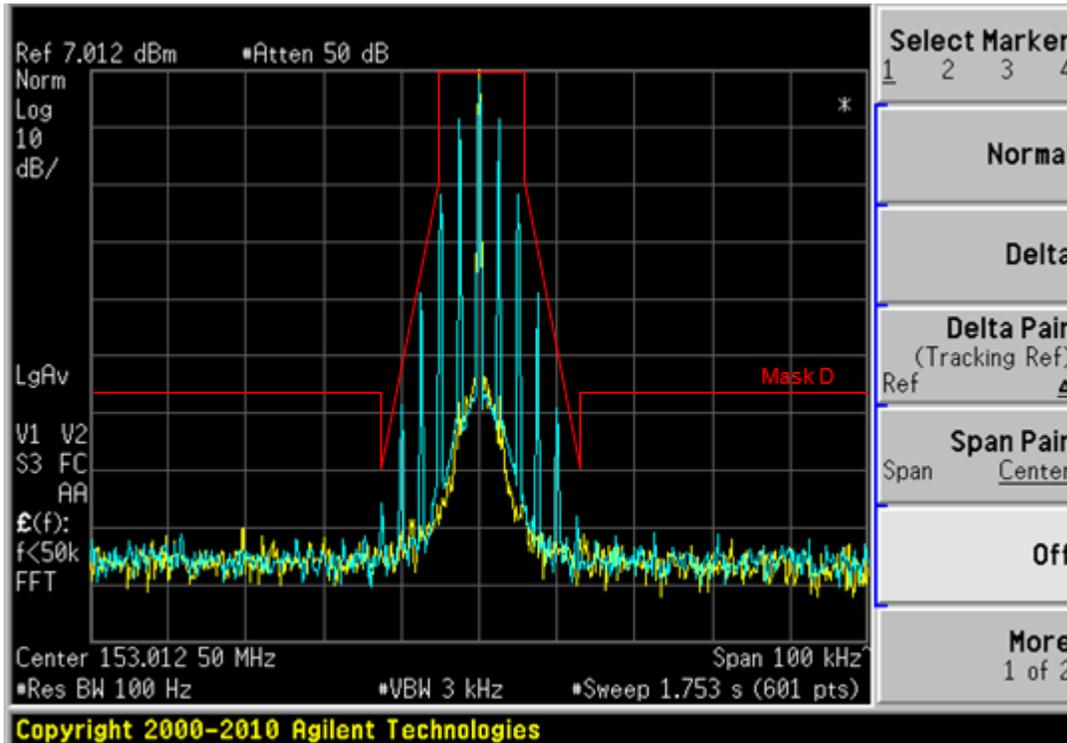


Exhibit 6E-1: 153.0125 MHz, 12.5 kHz, 2500 Hz Audio Modulation Only, 11K0F3E Mask D

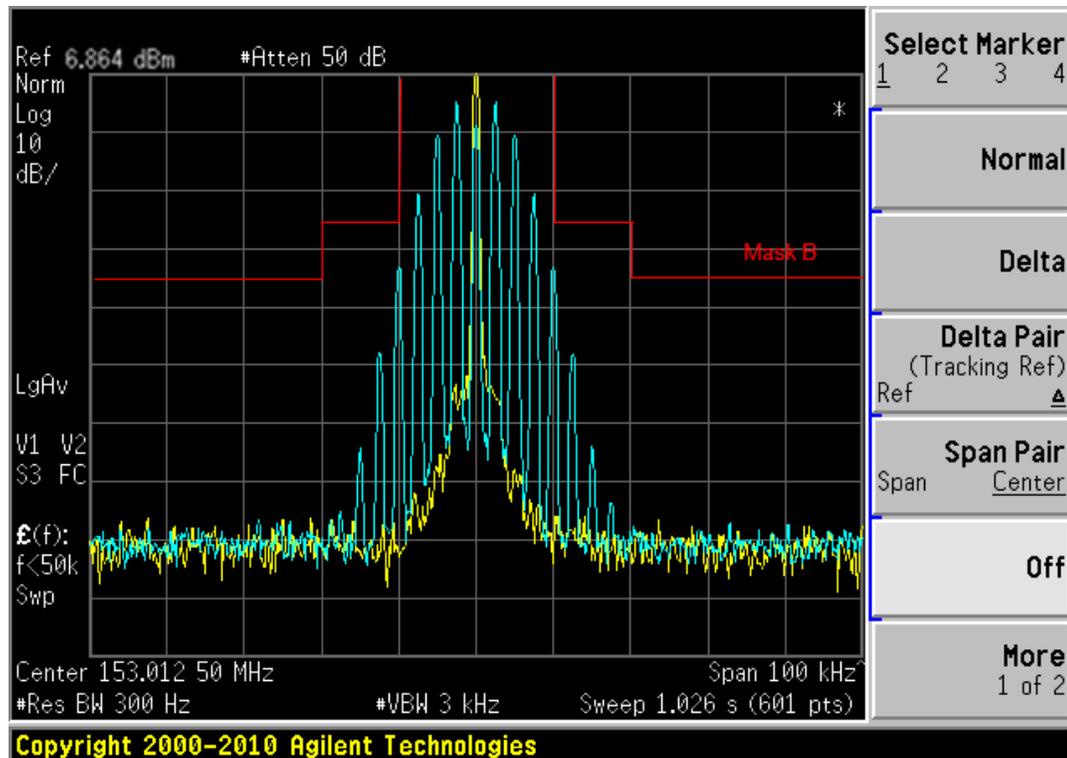


Exhibit 6E-2: 153.0125 MHz, 25 kHz, 2500 Hz Audio Modulation Only, 16K0F3E Mask B (FCC Rule Part 80)

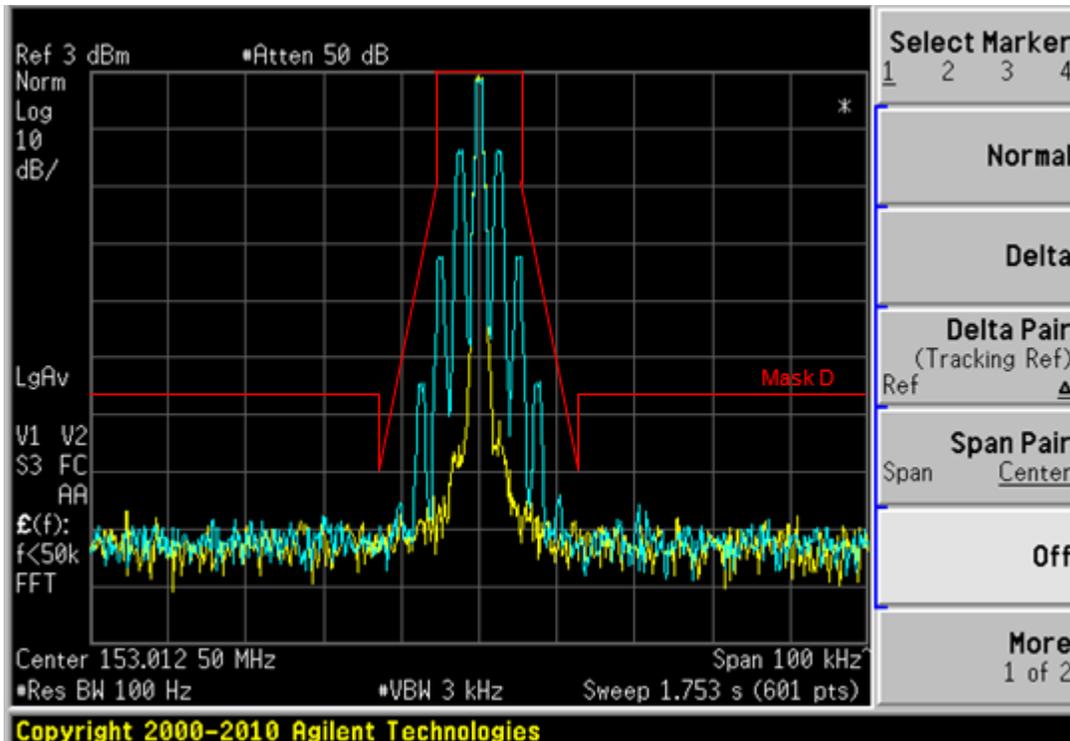


Exhibit 6E-3: 153.0125 MHz, 12.5 kHz, 2500 Hz Audio and PL Tone Modulation, 11K0F3E Mask D

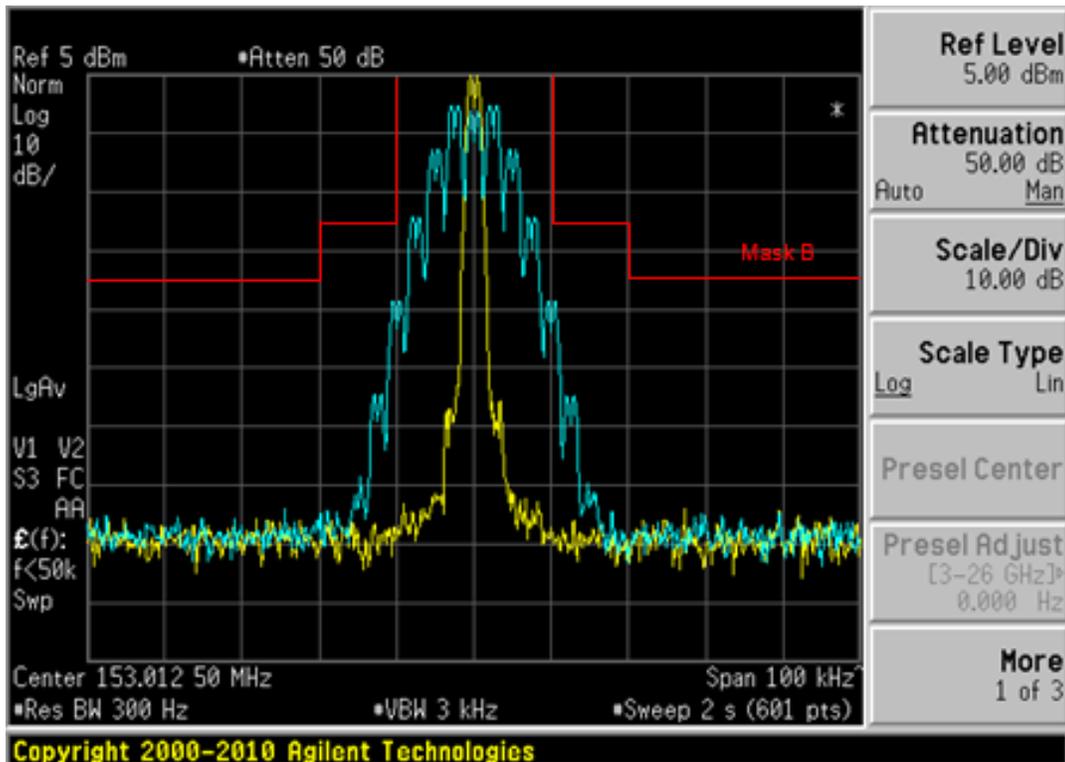


Exhibit 6E-4: 153.0125 MHz, 25 kHz, 2500 Hz Audio and PL Tone Modulation, 16K0F3E Mask B (FCC Rule Part 80)

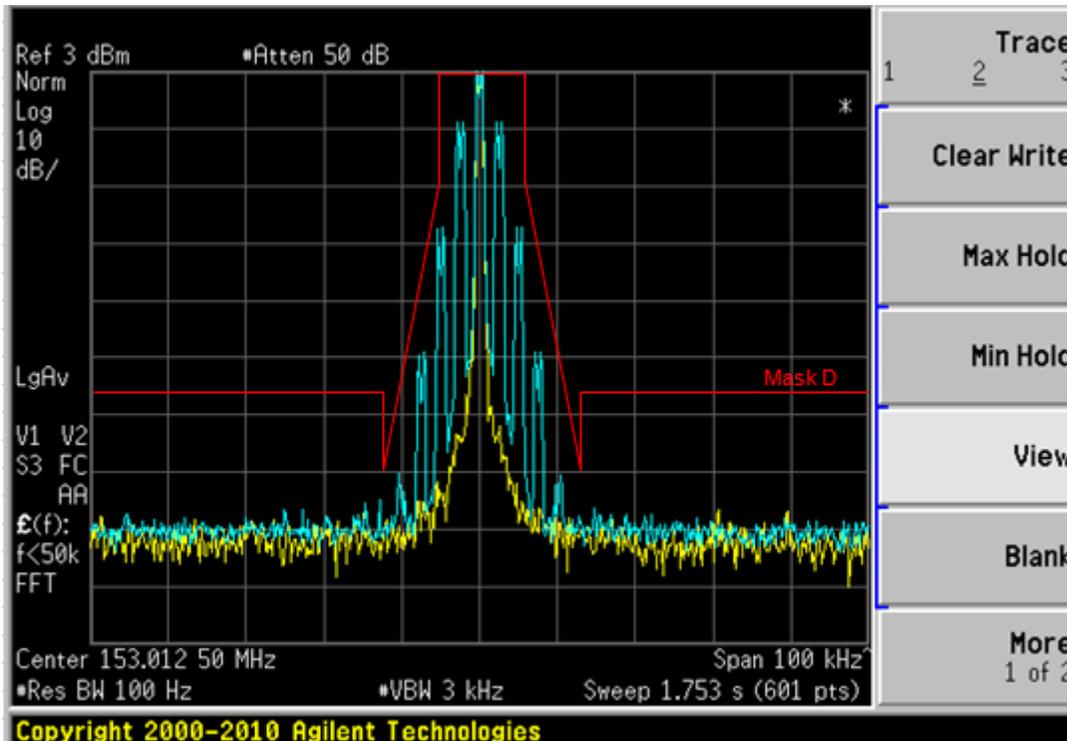


Exhibit 6E-5: 153.0125 MHz, 12.5 kHz, 2500 Hz Audio and DPL Tone Modulation, 11K0F3E Mask D

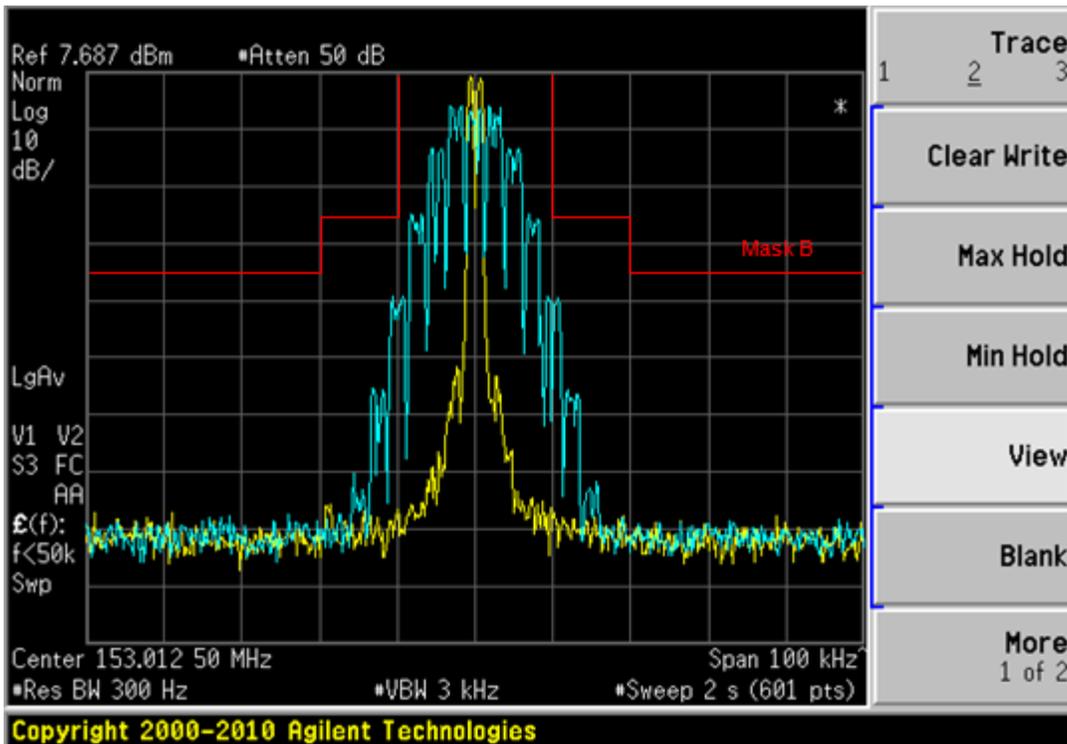


Exhibit 6E-6: 153.0125 MHz, 25 kHz, 2500 Hz Audio and DPL Tone Modulation, 16K0F3E Mask B(FCC Rule Part 80)

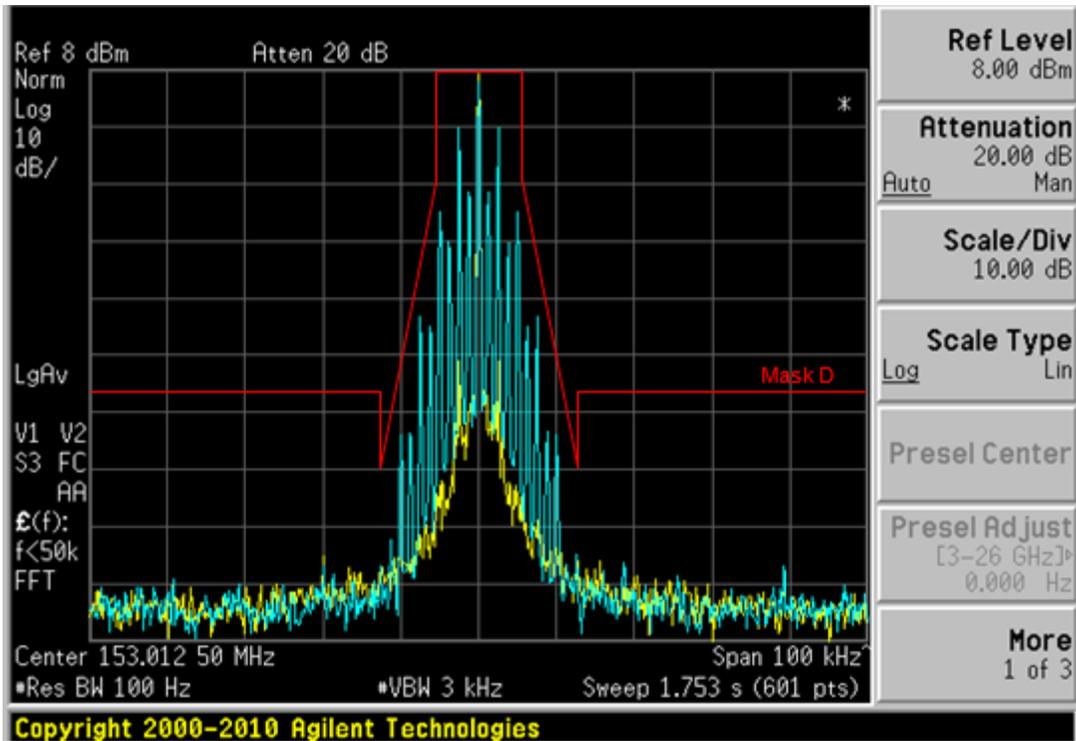


Exhibit 6E-7: 153.0125 MHz, 12.5 kHz, 2000/3000 Hz FSK Data Modulation Only, 11K0F3E Mask D

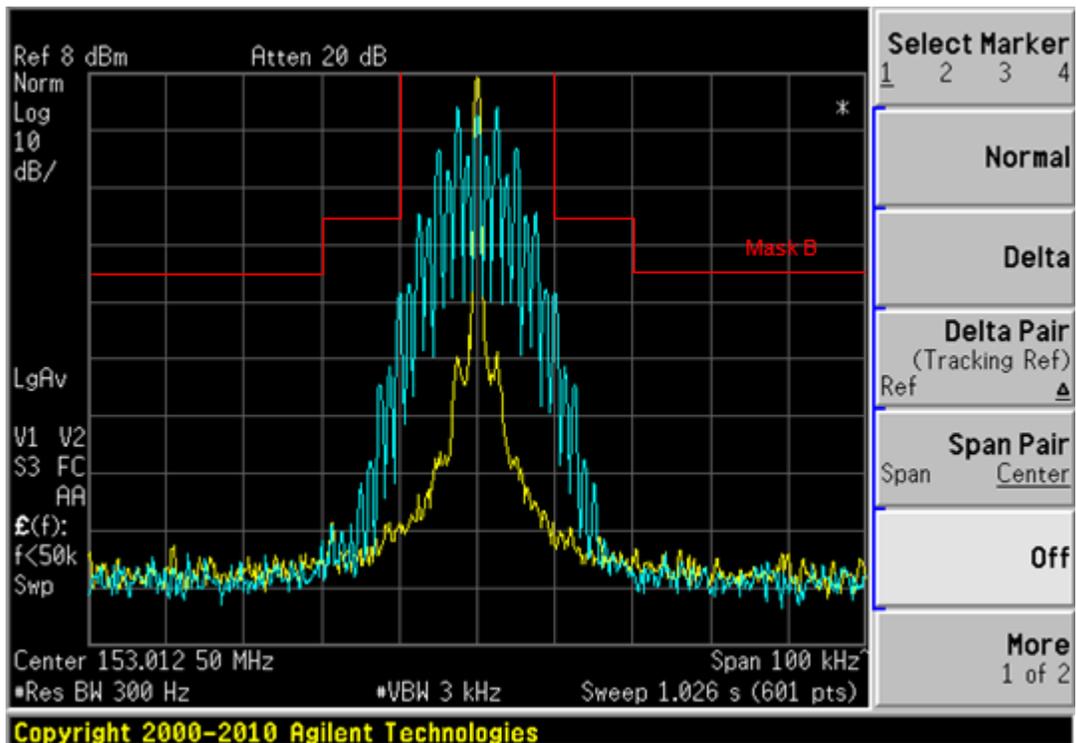


Exhibit 6E-8: 153.0125 MHz, 25 kHz, 2000/3000 Hz FSK Data Modulation Only, 16K0F3E Mask B (FCC Rule Part 80)

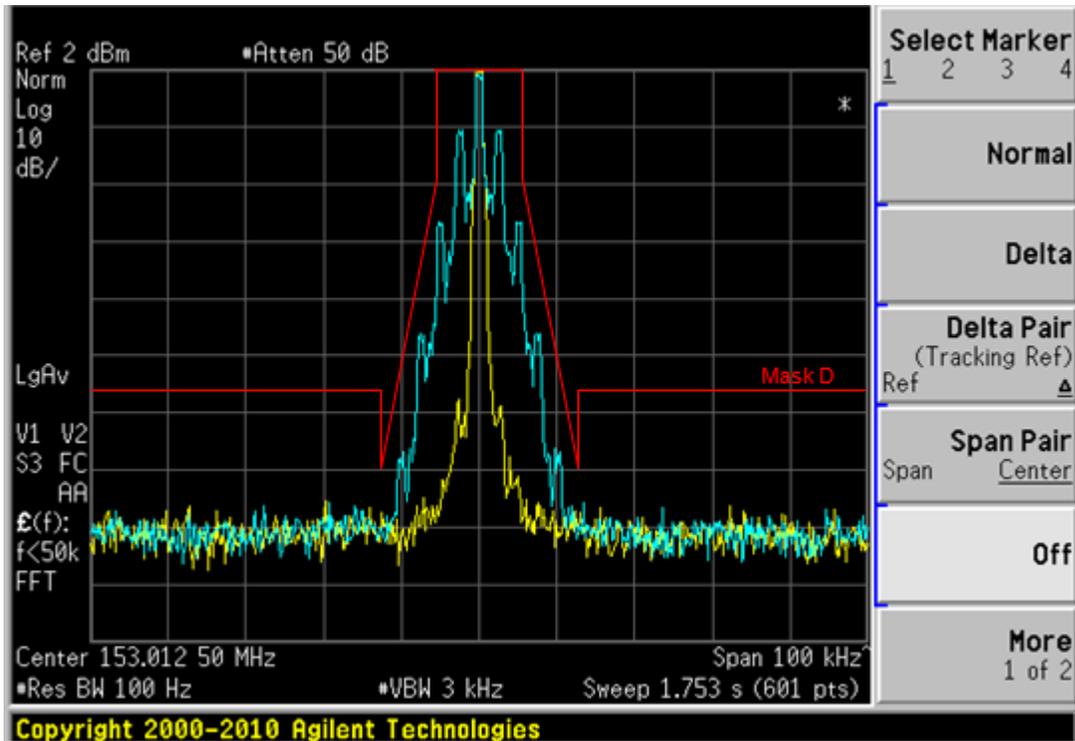


Exhibit 6E-9: 153.0125 MHz, 12.5 kHz, 2000/3000 Hz FSK Data and PL Tone Modulation Only, 11K0F3E Mask D

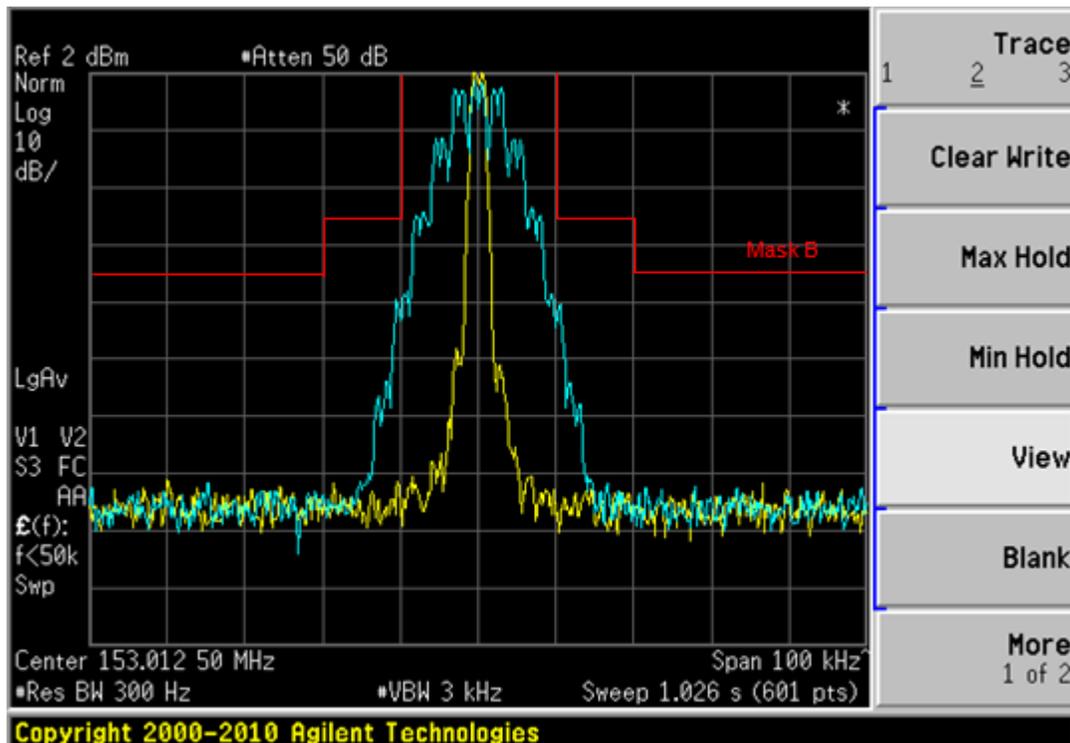


Exhibit 6E-10: 153.0125 MHz, 25 kHz, 2000/3000 Hz FSK Data and PL Tone Mod, 16K0F3E Mask B (FCC Rule Part 80)

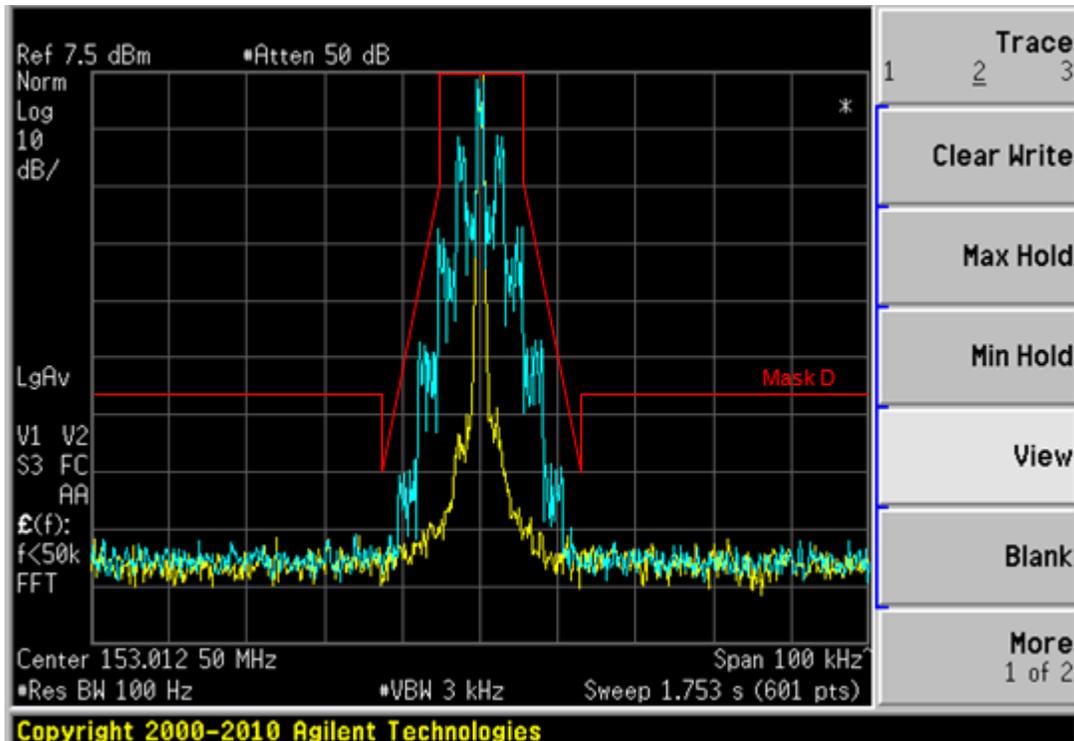


Exhibit 6E-11: 153.0125 MHz, 12.5 kHz, 2000/3000 Hz FSK Data and DPL Tone Modulation Only, 11K0F3E Mask D

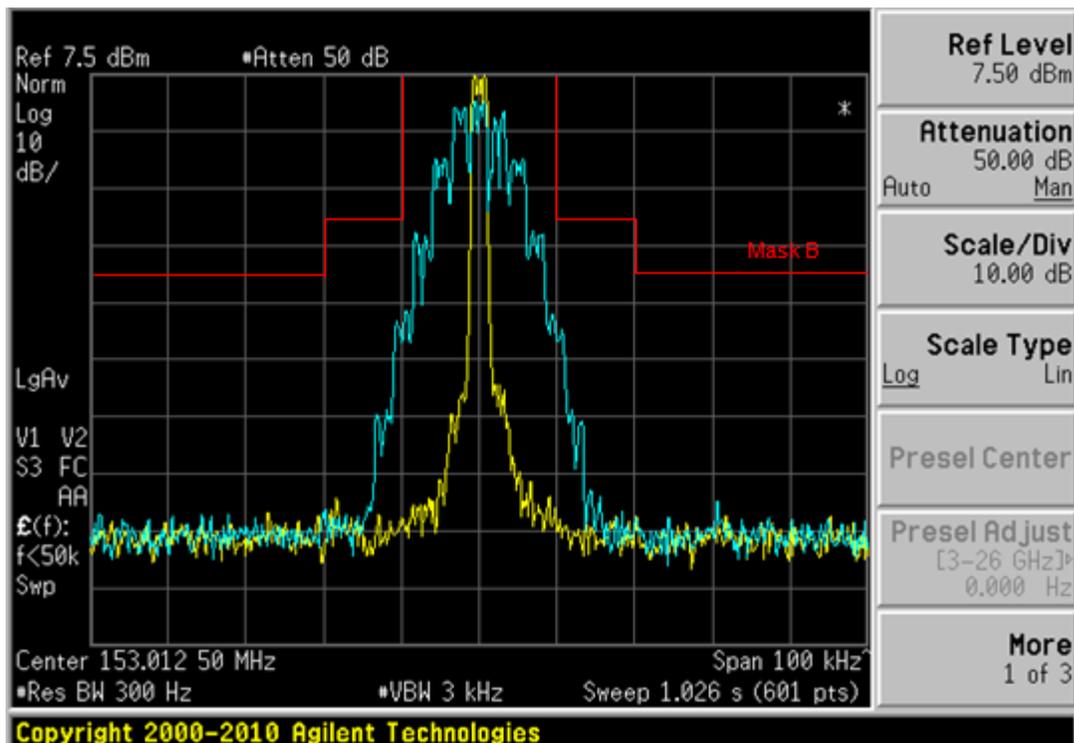


Exhibit 6E-12: 153.0125 MHz, 25 kHz, 2000/3000 Hz FSK Data and DPL Tone Mod, 16K0F3E Mask B (FCC Rule Pt 80)

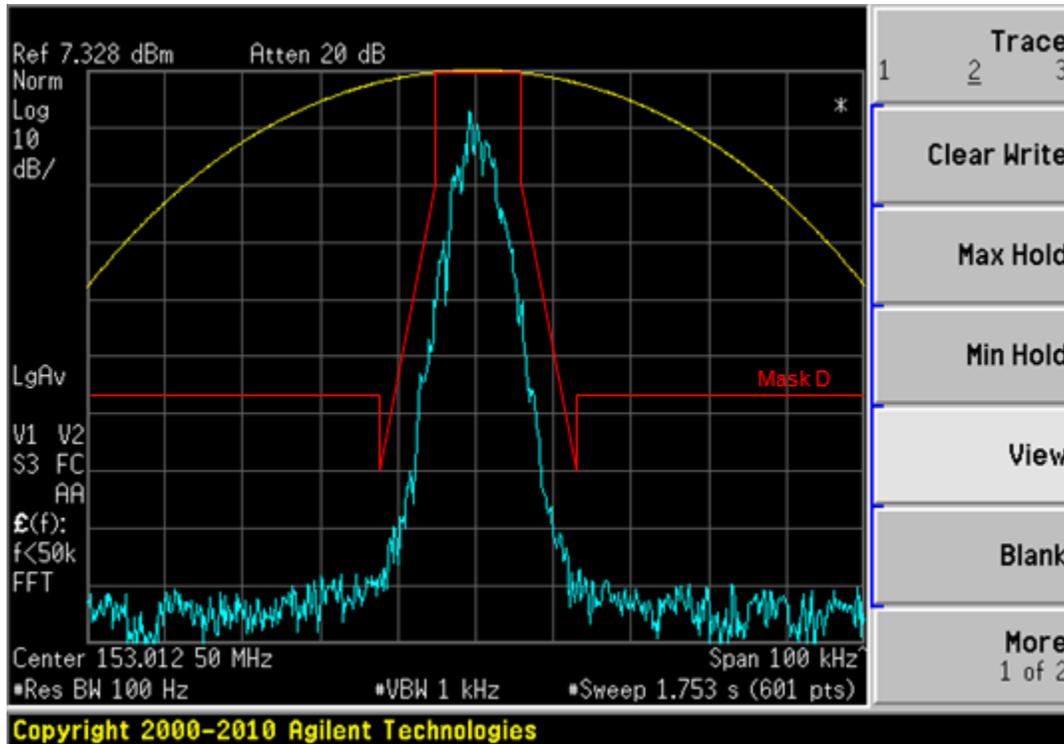


Exhibit 6E-14: 153.0125 MHz, 0.153 Test Pattern 4FSK Data & Voice Modulation, 7K60F1W Mask D

****NOTE:-**

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

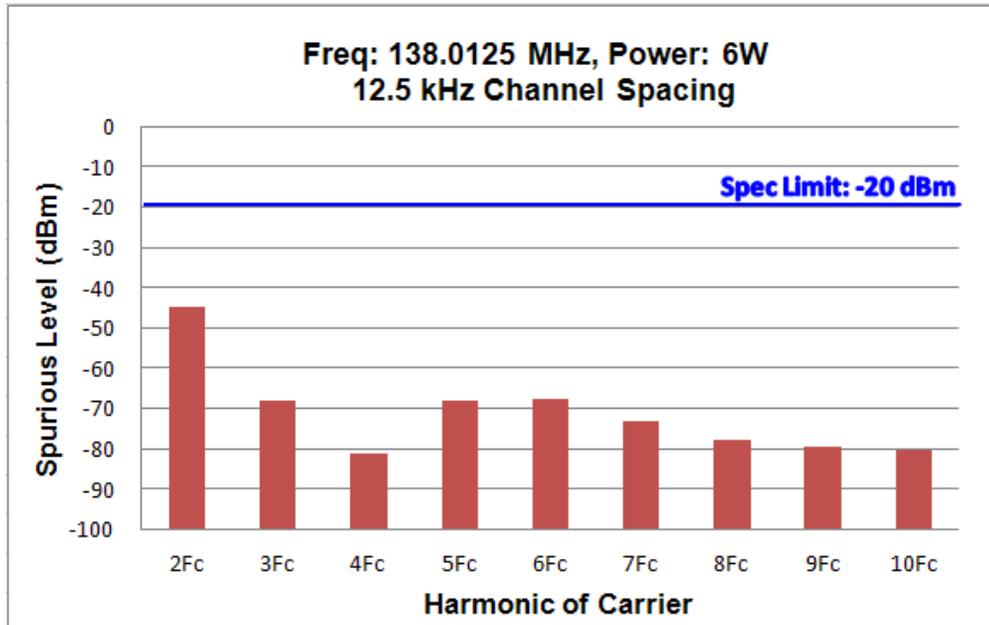


Exhibit 6F-1: 6W Harmonic of Carrier 138.0125 MHz, 12.5 kHz Channel Spacing (Not for FCC Review)

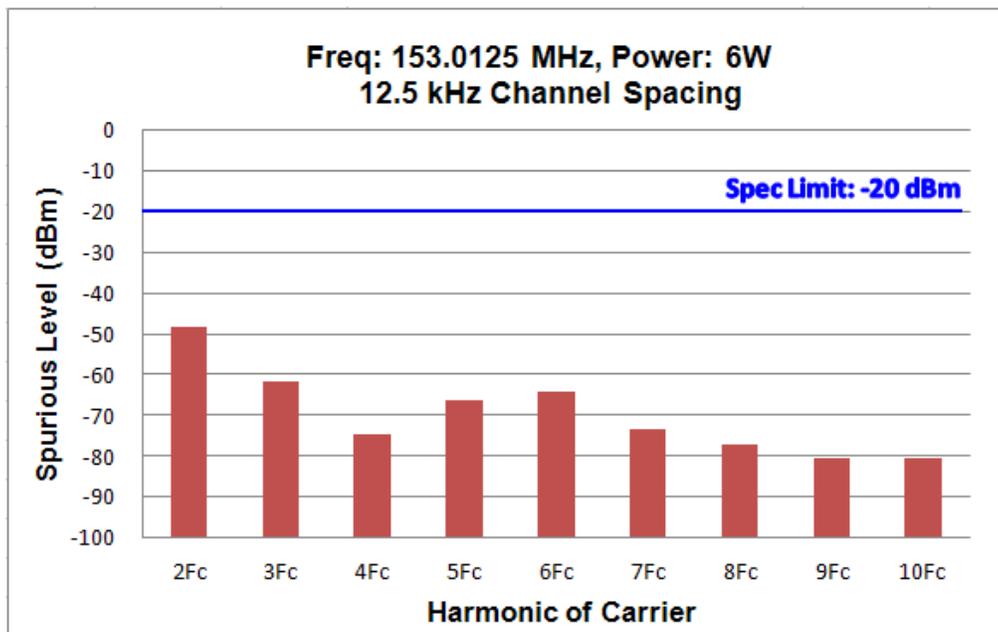


Exhibit 6F-2: 6W Harmonic of Carrier 153.0125 MHz, 12.5 kHz Channel Spacing

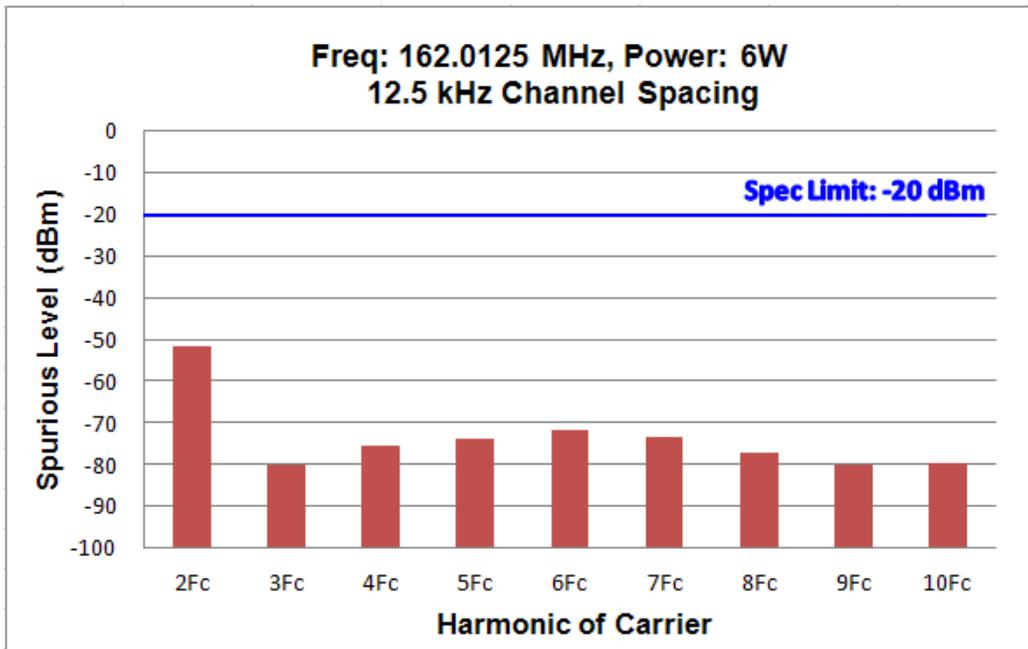


Exhibit 6F-3: 6W Harmonic of Carrier 162.0125 MHz, 12.5 kHz Channel Spacing

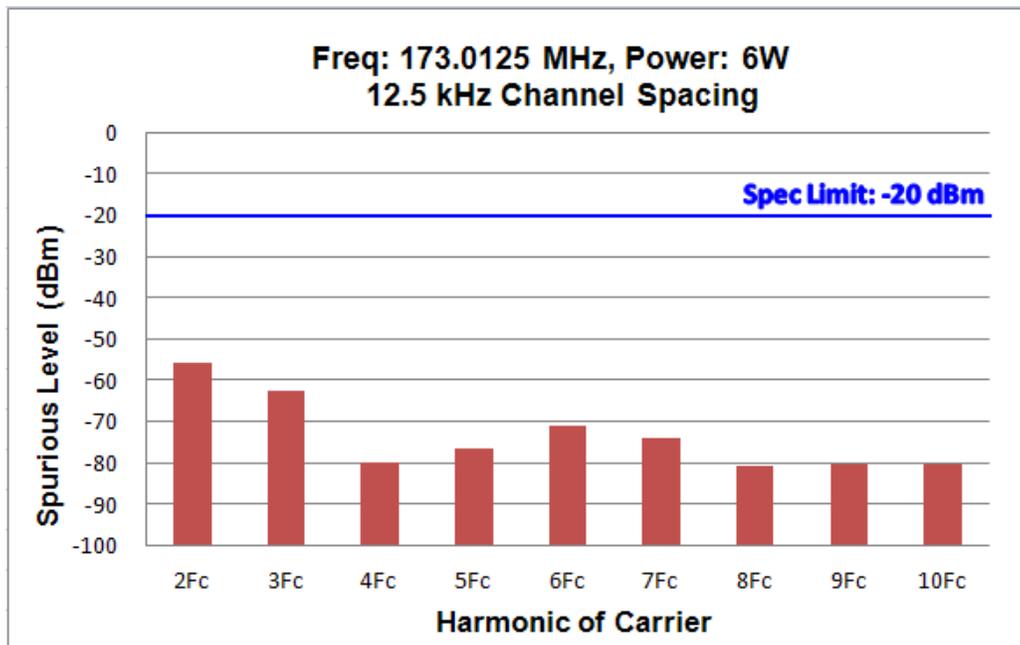


Exhibit 6F-4: 6W Harmonic of Carrier 173.0125 MHz, 12.5 kHz Channel Spacing

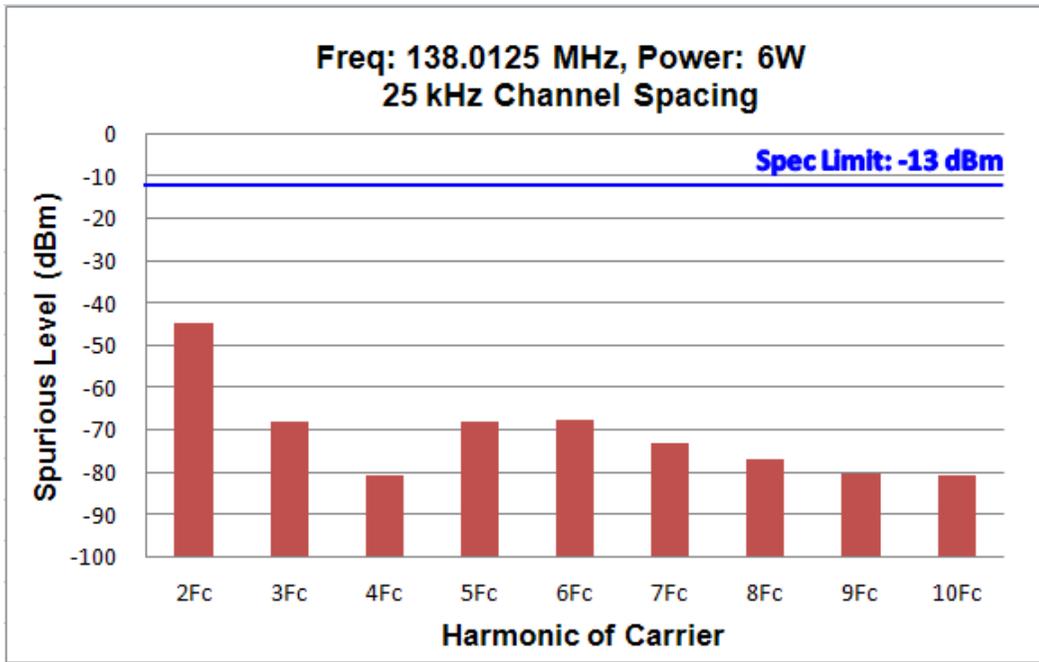


Exhibit 6F-5: 6W Harmonic of Carrier 138.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)

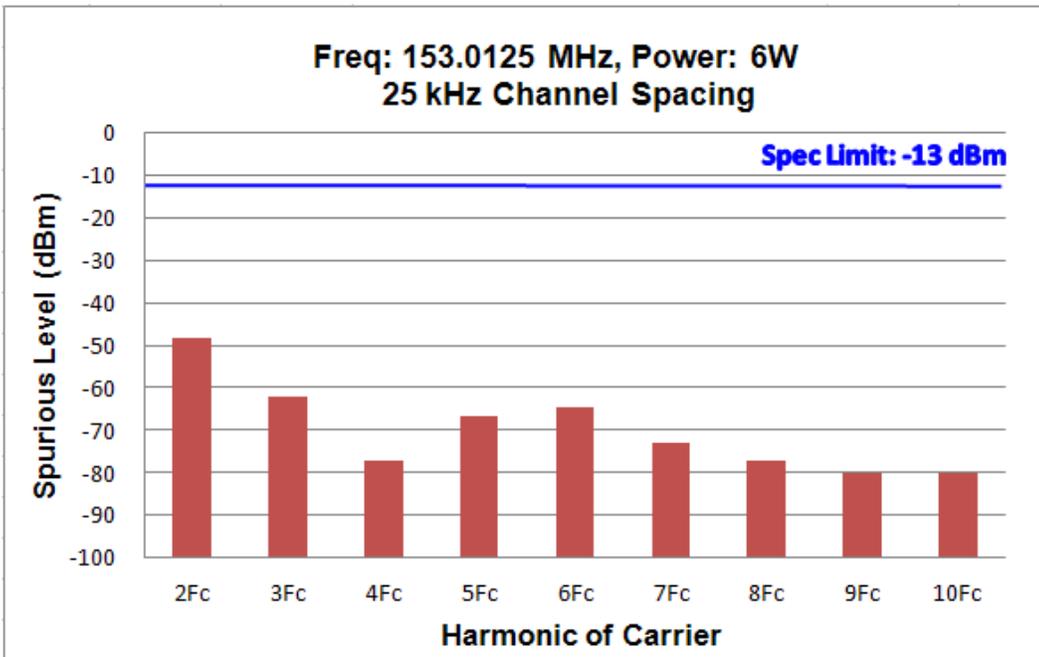


Exhibit 6F-6: 6W Harmonic of Carrier 153.0125 MHz, 25 kHz Channel Spacing (FCC Rule Part 80)

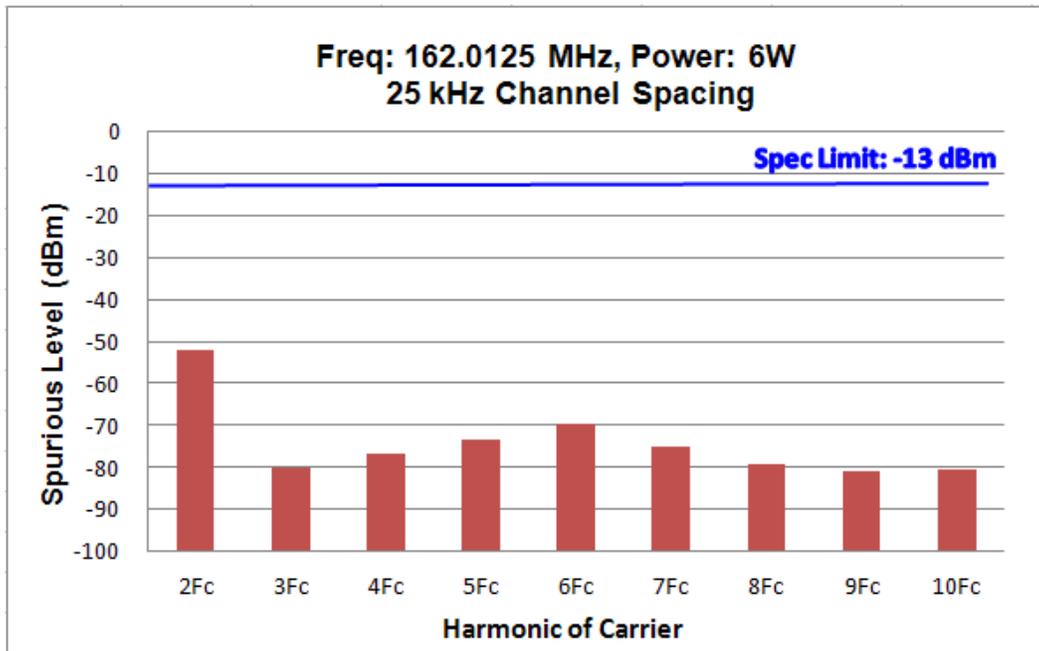


Exhibit 6F-7: 6W Harmonic of Carrier 162.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)

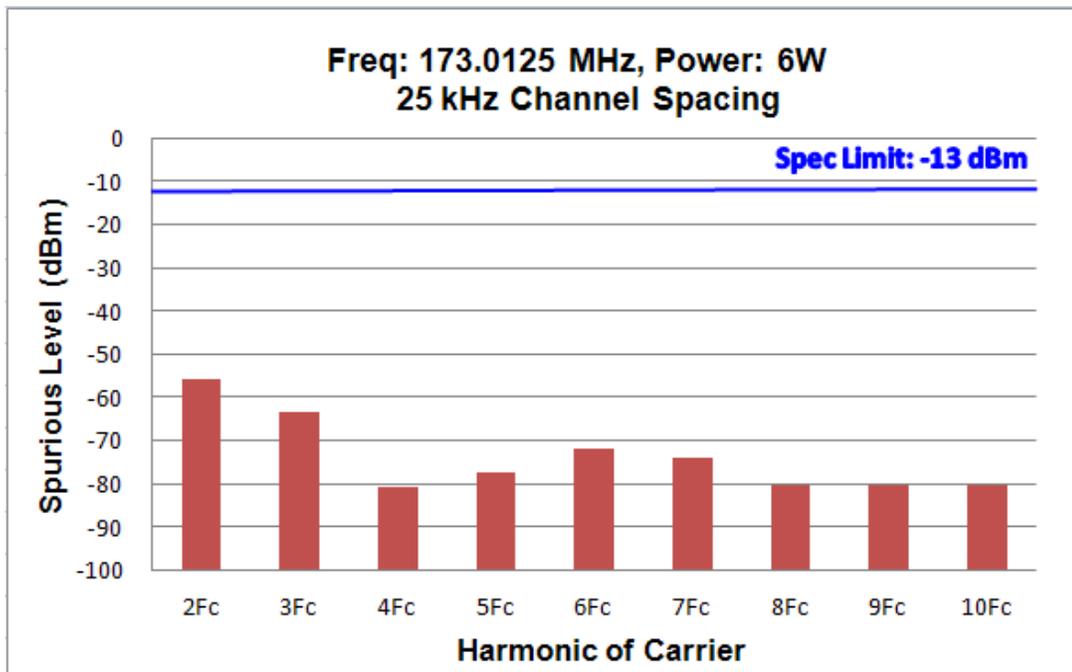
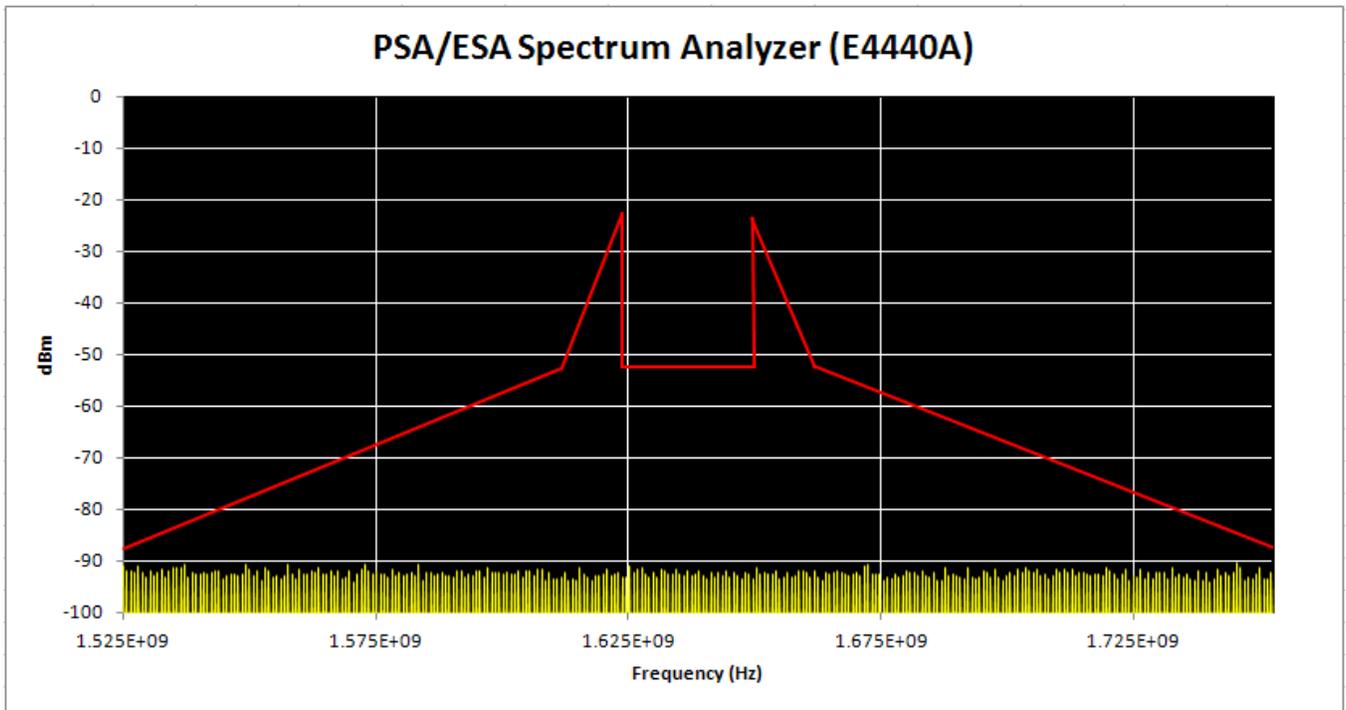


Exhibit 6F-8: 6W Harmonic of Carrier 173.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)



Emission of 4 kHz Band		
Frequency (MHz)	1525	1752.5
Power (dBm)	-91.03	-92.22

Exhibit 6F-9: 6W, 153.0125 MHz, 25 kHz Channel Spacing (Analog Mode) (Part 80.211(c))

EXHIBIT 6G
Transmitter Radiated Spurious Emissions

Tx Power: 6 Watts

138.0125 MHz

Channel Spacing 12.5kHz | S/N 105TPB0078

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
276.0250	-20	*	*
414.0375	-20	*	*
552.0500	-20	*	*
690.0625	-20	*	*
828.0750	-20	*	*
966.0875	-20	*	*
1104.1000	-20	*	*
1242.1125	-20	*	*
1380.1250	-20	*	*

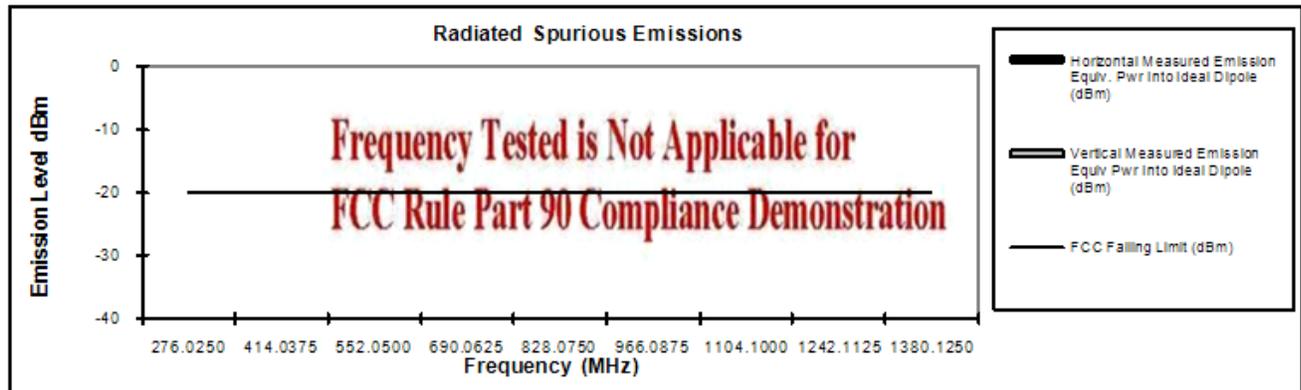


Exhibit 6G-1: 6W, 138.0125 MHz, 12.5 kHz Channel Spacing
Tx Power: 6 Watts

153.0125 MHz

Channel Spacing 12.5kHz | S/N 105TPB0078

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
306.0250	-20	*	*
459.0375	-20	*	*
612.0500	-20	*	*
765.0625	-20	*	*
918.0750	-20	*	*
1071.0875	-20	*	*
1224.1000	-20	*	*
1377.1125	-20	*	*
1530.1250	-20	*	*

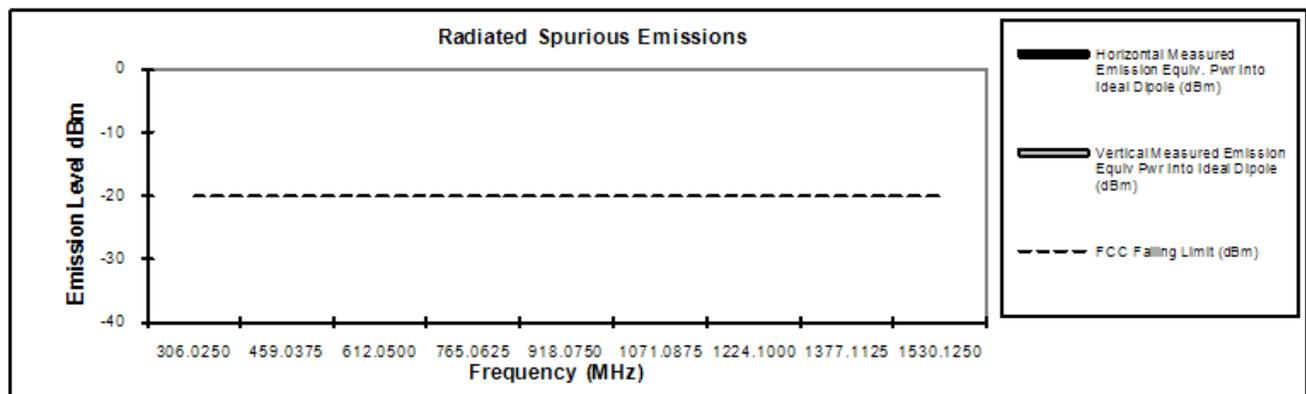


Exhibit 6G-2: 6W, 153.0125 MHz, 12.5 kHz Channel Spacing

Tx Power: 6 Watts

162.0125 MHz

Channel Spacing 12.5kHz | S/N 105TPB0078

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
324.0250	-20	*	*
486.0375	-20	*	*
648.0500	-20	*	*
810.0625	-20	*	*
972.0750	-20	*	*
1134.0875	-20	*	*
1296.1000	-20	*	*
1458.1125	-20	*	*
1620.1250	-20	*	*

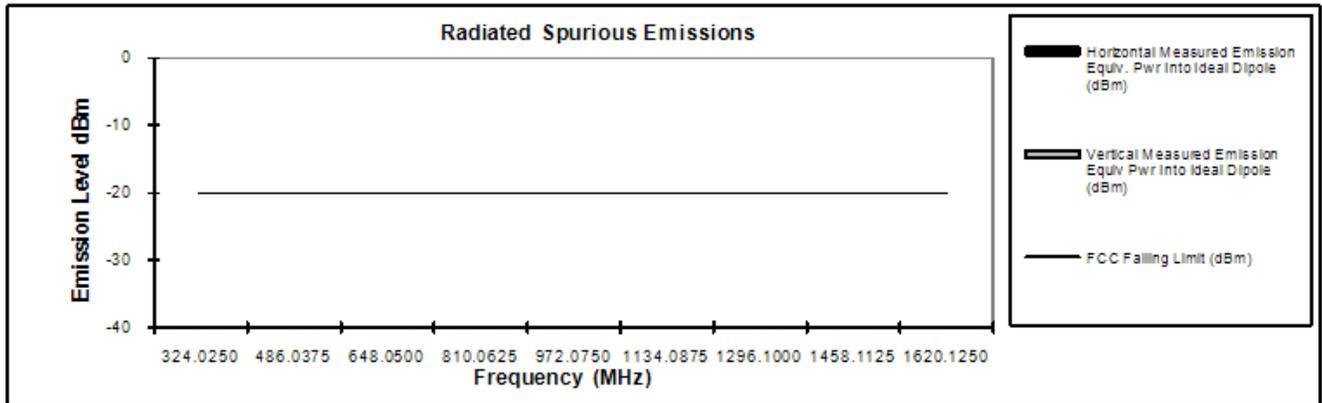


Exhibit 6G-3: 6W, 162.0125 MHz, 12.5 kHz Channel Spacing

Tx Power: 6 Watts

173.0125 MHz

Channel Spacing 12.5kHz | S/N 105TPB0078

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
346.0250	-20	*	*
519.0375	-20	*	*
692.0500	-20	*	*
865.0625	-20	*	*
1038.0750	-20	*	*
1211.0875	-20	*	*
1384.1000	-20	*	*
1557.1125	-20	*	*
1730.1250	-20	*	*

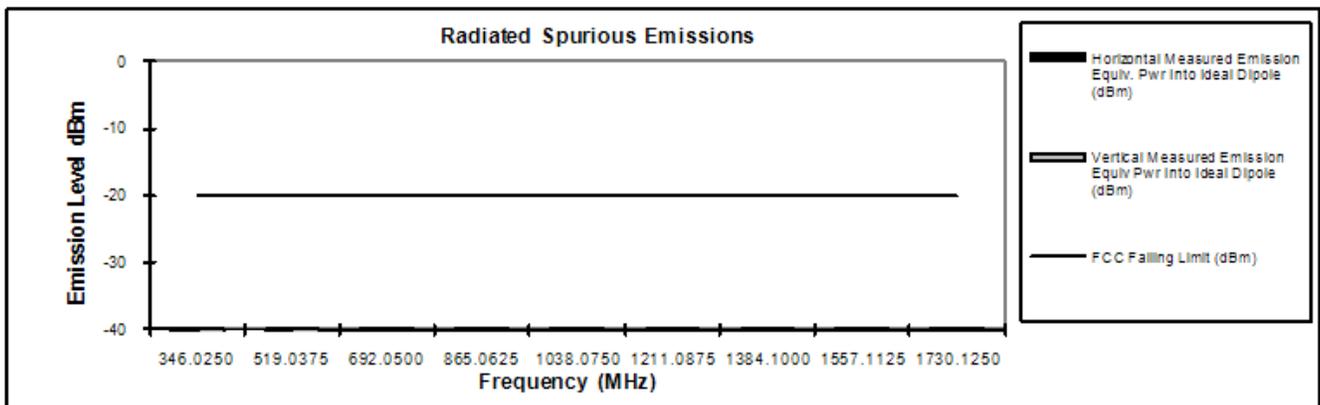


Exhibit 6G-4: 6W, 173.0125 MHz, 12.5 kHz Channel Spacing

Tx Power: 6 Watts

138.0125 MHz

Channel Spacing 25kHz | S/N 105TPB0074

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
276.0250	-13	*	*
414.0375	-13	*	*
552.0500	-13	*	*
690.0625	-13	*	*
828.0750	-13	*	*
966.0875	-13	*	*
1104.1000	-13	*	*
1242.1125	-13	*	*
1380.1250	-13	*	*

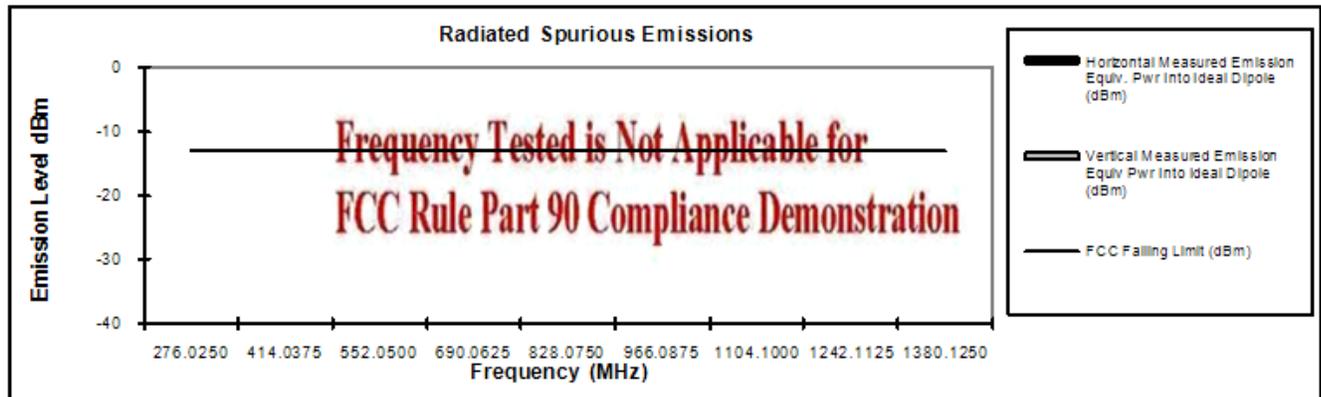


Exhibit 6G-5: 6W, 138.0125 MHz, 25 kHz Channel Spacing

Tx Power: 6 Watts

153.0125 MHz

Channel Spacing 25kHz | S/N 105TPB0074

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
306.0250	-13	*	*
459.0375	-13	*	*
612.0500	-13	*	*
765.0625	-13	*	*
918.0750	-13	*	*
1071.0875	-13	*	*
1224.1000	-13	*	*
1377.1125	-13	*	*
1530.1250	-13	*	*

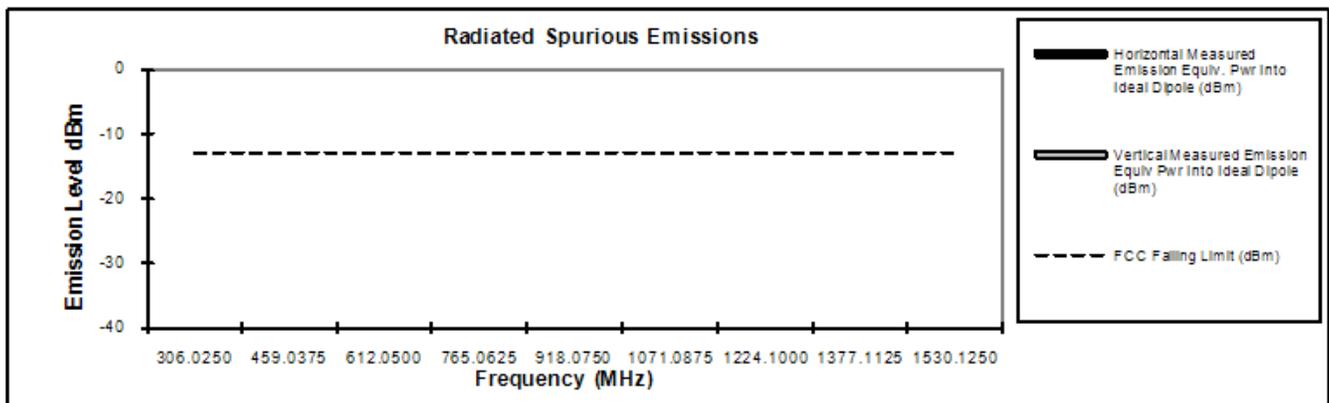


Exhibit 6G-6: 6W, 153.0125 MHz, 25 kHz Channel Spacing

Tx Power: 6 Watts

162.0125 MHz

Channel Spacing 25kHz | S/N 105TPB0074

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
324.0250	-13	*	*
486.0375	-13	*	*
648.0500	-13	*	*
810.0625	-13	*	*
972.0750	-13	*	*
1134.0875	-13	*	*
1296.1000	-13	*	*
1458.1125	-13	*	*
1620.1250	-13	*	*

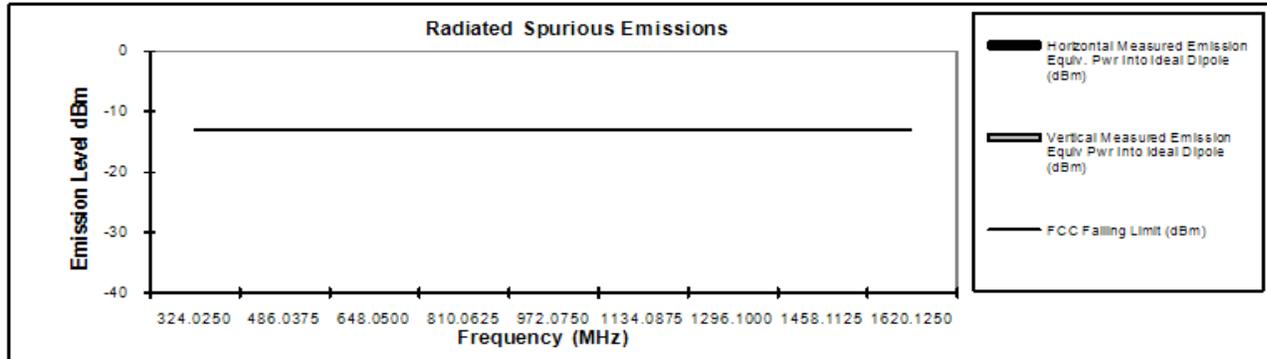


Exhibit 6G-7: 6W, 162.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)

Tx Power: 6 Watts

173.0125 MHz

Channel Spacing 25kHz | S/N 105TPB0074

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
346.0250	-13	*	*
519.0375	-13	*	*
692.0500	-13	*	*
865.0625	-13	*	*
1038.0750	-13	*	*
1211.0875	-13	*	*
1384.1000	-13	*	*
1557.1125	-13	*	*
1730.1250	-13	*	*

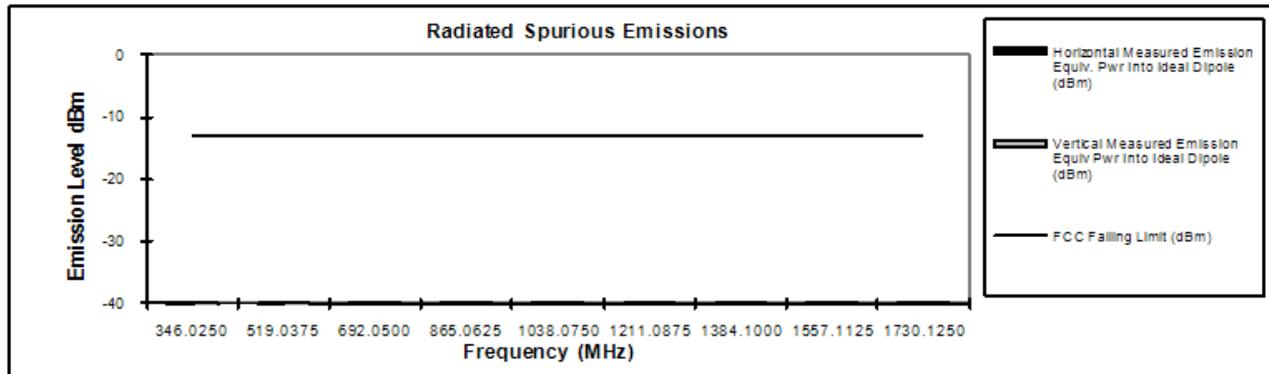


Exhibit 6G-8: 6W, 173.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)

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

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

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

Motorola Plantation EMC Lab – Test Performed by: Alberto Cordero
 FCC Registration: 91932 / Industry Canada: IC109U-1

March 12, 2013

EXHIBIT 6H

Frequency Stability

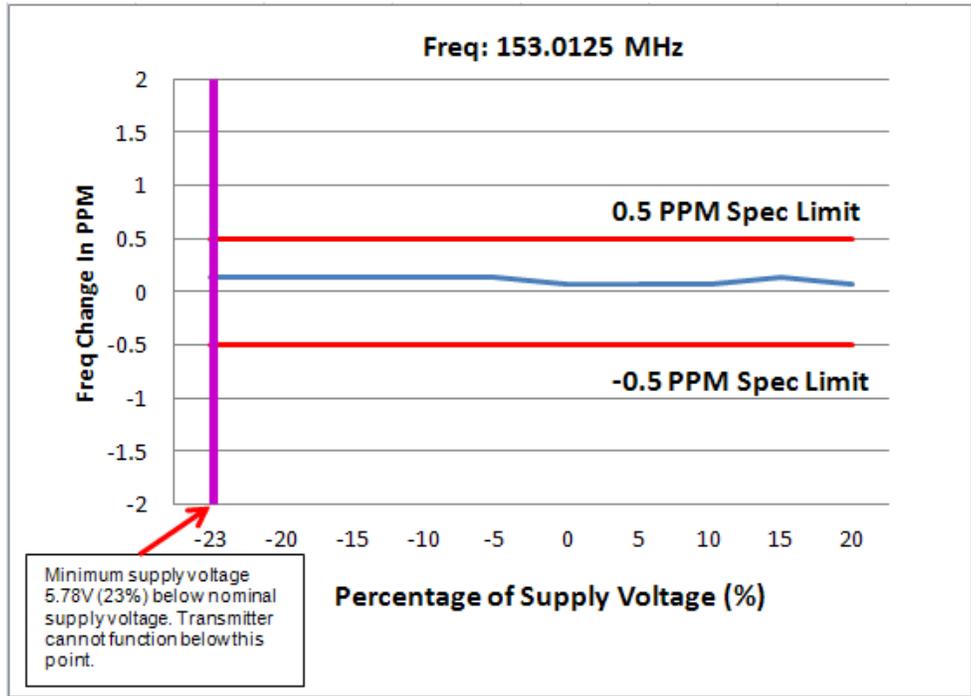


Exhibit 6H-1: 153.0125 MHz vs. Supply Voltage

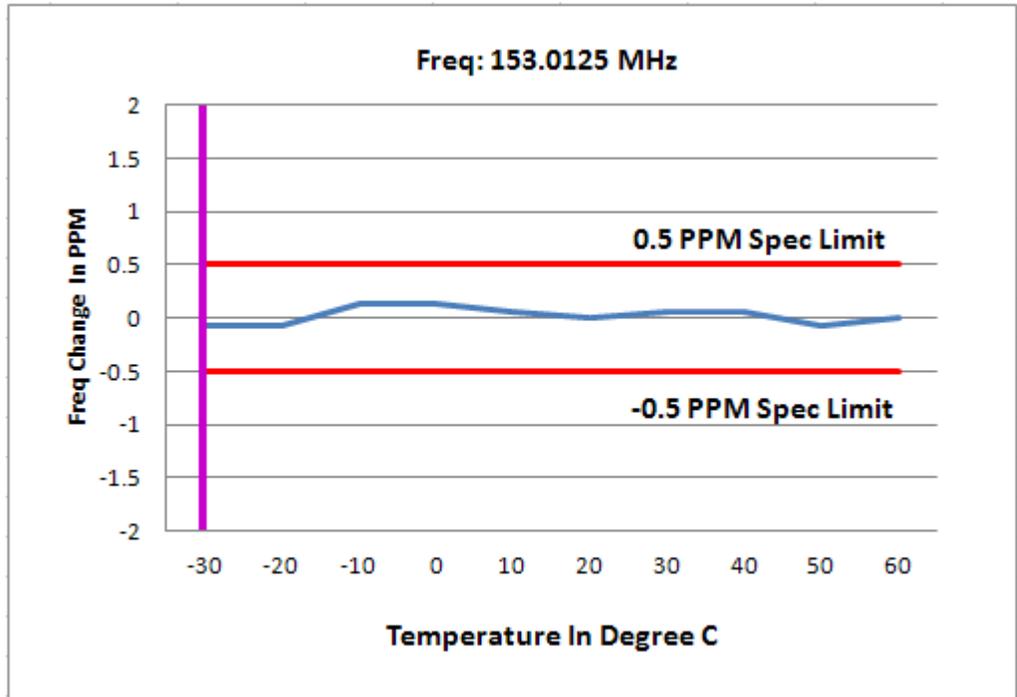


Exhibit 6H-2: 153.0125 MHz vs. Temperature

EXHIBIT 6I

Transient Frequency Behavior

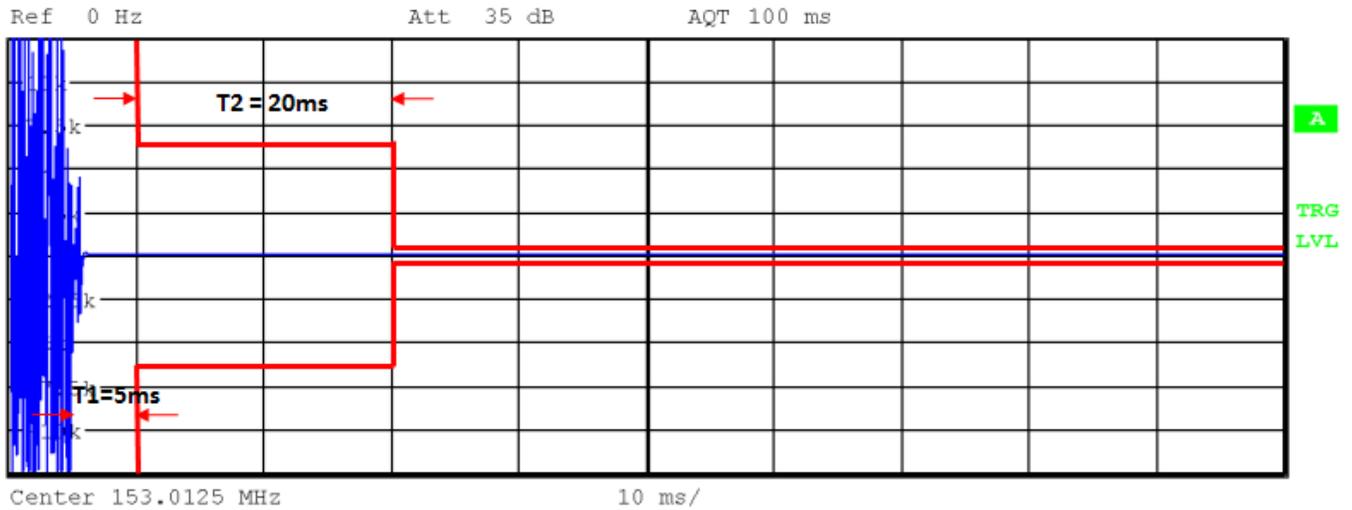


Exhibit 6I-1: 153.0125 MHz, 12.5 kHz Channel Spacing - Transmitter On

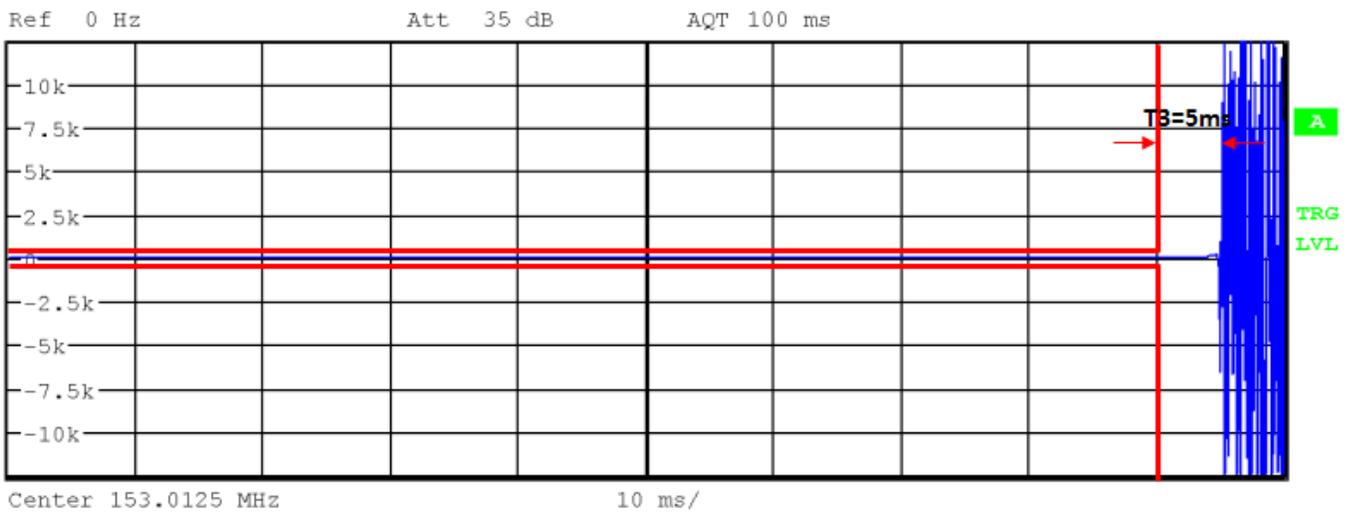


Exhibit 6I-2: 153.0125 MHz, 12.5 kHz Channel Spacing - Transmitter Off

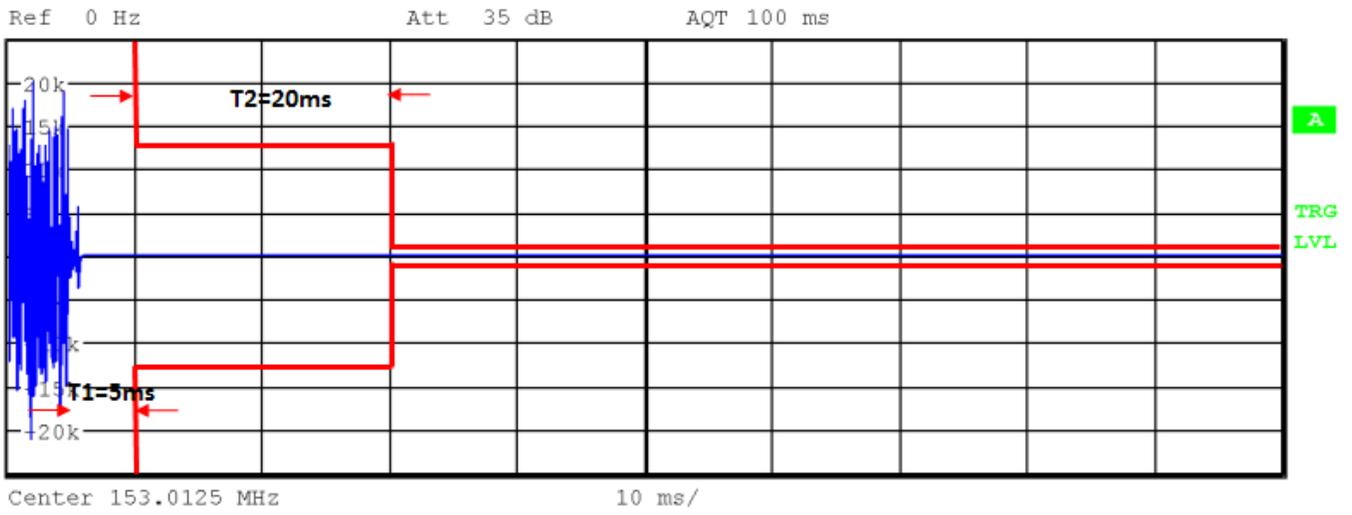


Exhibit 6I-3: 153.0125 MHz, 25 kHz Channel Spacing – Transmitter On (Not for FCC Review)

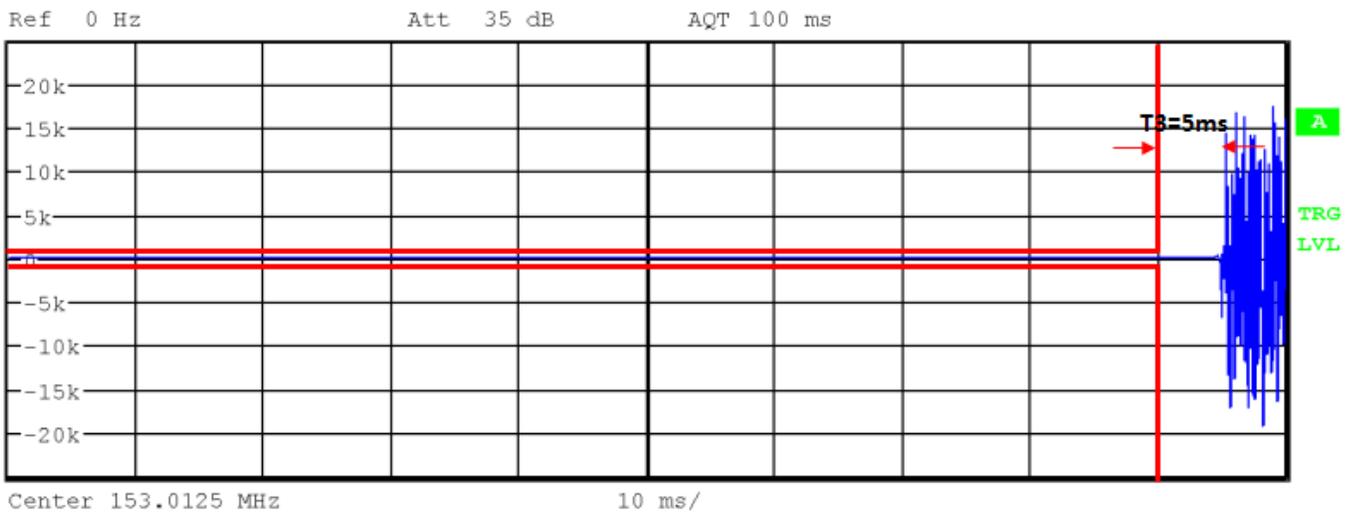


Exhibit 6I-4: 153.0125 MHz, 25 kHz Channel Spacing – Transmitter Off (Not for FCC Review)