

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 – 157.77 MHz, 25 kHz Channel Spacing (Part 22 & 80)

6B-2 – 161.7 MHz, 25 kHz Channel Spacing (Part 74)

EXHIBIT 6C – Audio Low Pass Filter Response

6C-1 – 157.77 MHz, 25 kHz Channel Spacing (Part 22 & 80)

6C-2 – 161.7 MHz, 25 kHz Channel Spacing (Part 74)

EXHIBIT 6D – Modulation Limiting

6D-1 – 157.77 MHz, 25 kHz Channel Spacing (Part 22 & 80)

6D-2 – 161.7 MHz, 25 kHz Channel Spacing (Part 74)

EXHIBIT 6E – Occupied Bandwidth

6E-1 – 157.77 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E (Part 22 & 80)

6E-2 – 161.7 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E, Mask B (Part 74)

EXHIBIT 6F - Conducted Spurious Emissions

6F-1 – 54 Watts, 157.77 MHz, 25 kHz Channel Spacing (Part 22 & 80)

6F-2 – 25 Watts, 157.77 MHz, 25 kHz Channel Spacing (Part 22 & 80)

6F-3 – 54 Watts, 161.7 MHz, 25 kHz Channel Spacing (Part 74)

6F-4 – 25 Watts, 161.7 MHz, 25 kHz Channel Spacing (Part 74)

EXHIBIT 6G - Radiated Spurious Emissions

6G-1 – 54 Watts, 157.77 MHz, 25 kHz Channel Spacing (Part 22 & 80)

6G-2 – 54 Watts, 161.7 MHz, 25 kHz Channel Spacing (Part 74)

EXHIBIT 6H – Frequency Stability

6H-1 – 157.77 MHz, Frequency Stability vs Supply Voltage (Part 22 & 80)

6H-2 – 157.77 MHz, Frequency Stability vs Temperature (Part 22 & 80)

6H-3 – 161.7 MHz, Frequency Stability vs Supply Voltage (Part 74)

6H-4 – 161.7 MHz, Frequency Stability vs Temperature (Part 74)

** Please note that the above data were taken following the procedures and limits outlined in TIA 603-D during the month of March 2015. See Table 2 in Ex07_test procedures

Radio model tested: AAM28JQN9KA1AN

Important Note: The data in this test report meets or exceeds the technical requirements of FCC Rule Parts 22.

EMC Lab details:

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FCC Registration Number 772092

IC Registration Number 109AK

Contact person: SK Ho

Contact email: hoszekhian@motorolasolutions.com

EXHIBIT 6A – RF POWER OUTPUT**HIGH POWER SETTING, FREQUENCY 157.77 MHz (Part 22 & 80)**

Measured RF Output Power:	54.0 Watts
Measured DC Voltage:	13.2 Volts
Measured DC Input Current:	8.32 Amperes

LOW POWER SETTING, FREQUENCY 157.77 MHz (Part 22 & 80)

Measured RF Output Power:	25.0 Watts
Measured DC Voltage:	13.2 Volts
Measured DC Input Current:	5.75 Amperes

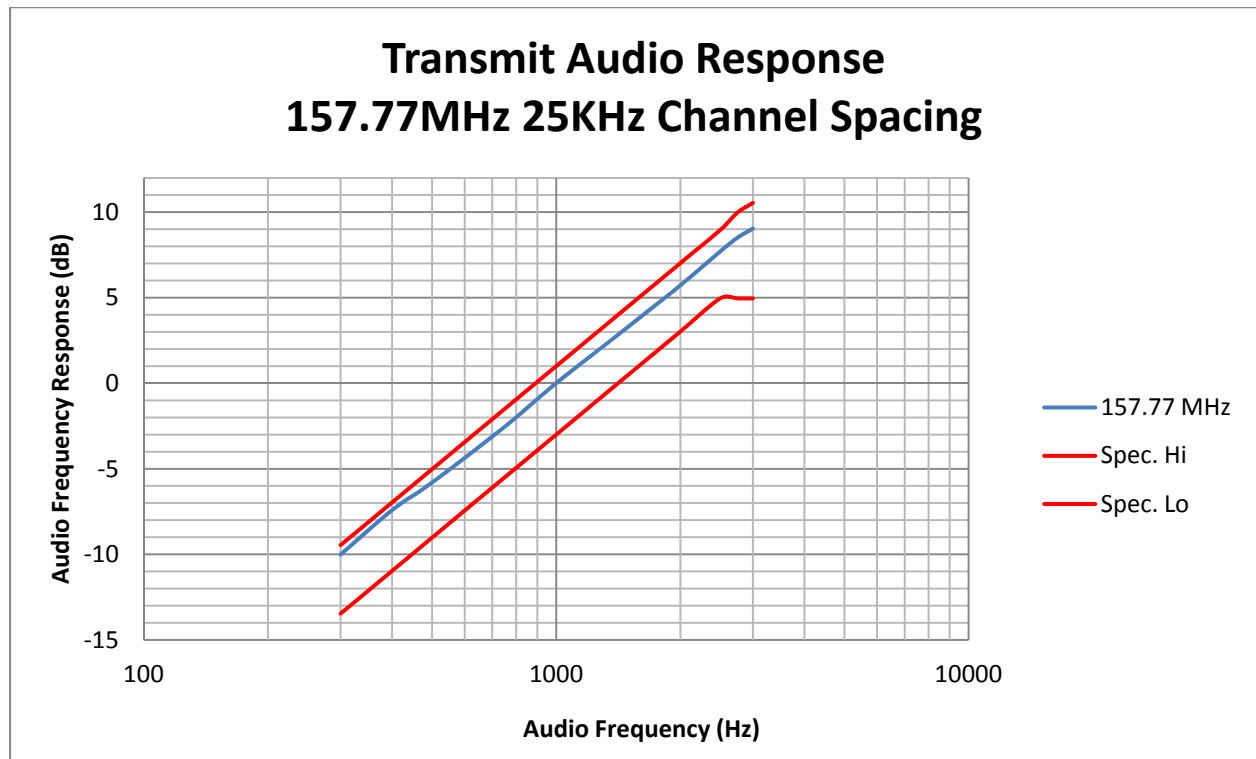
HIGH POWER SETTING, FREQUENCY 161.7 MHz (Part 74)

Measured RF Output Power:	54.0 Watts
Measured DC Voltage:	13.2 Volts
Measured DC Input Current:	8.15 Amperes

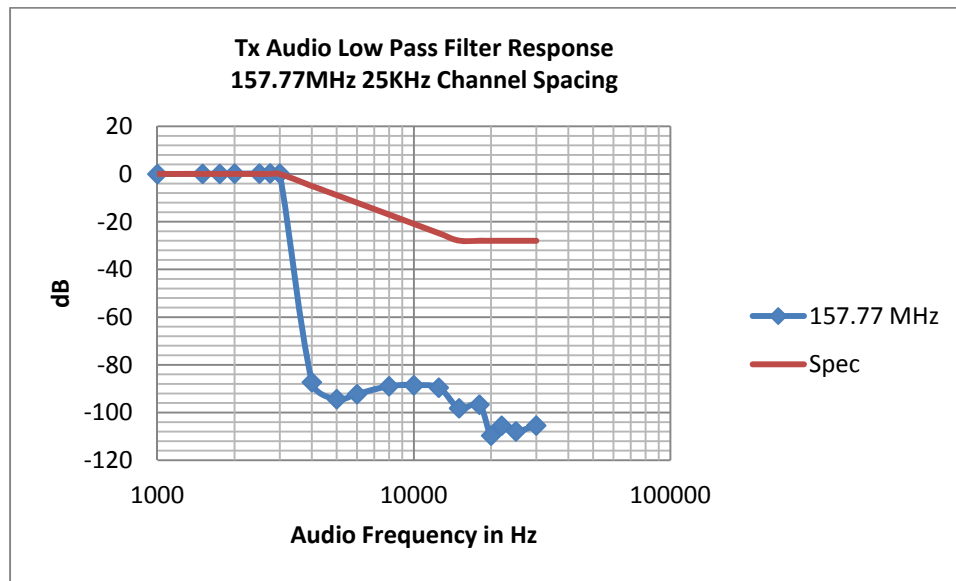
LOW POWER SETTING, FREQUENCY 161.7 MHz (Part 74)

Measured RF Output Power:	25.0 Watts
Measured DC Voltage:	13.2 Volts
Measured DC Input Current:	5.63 Amperes

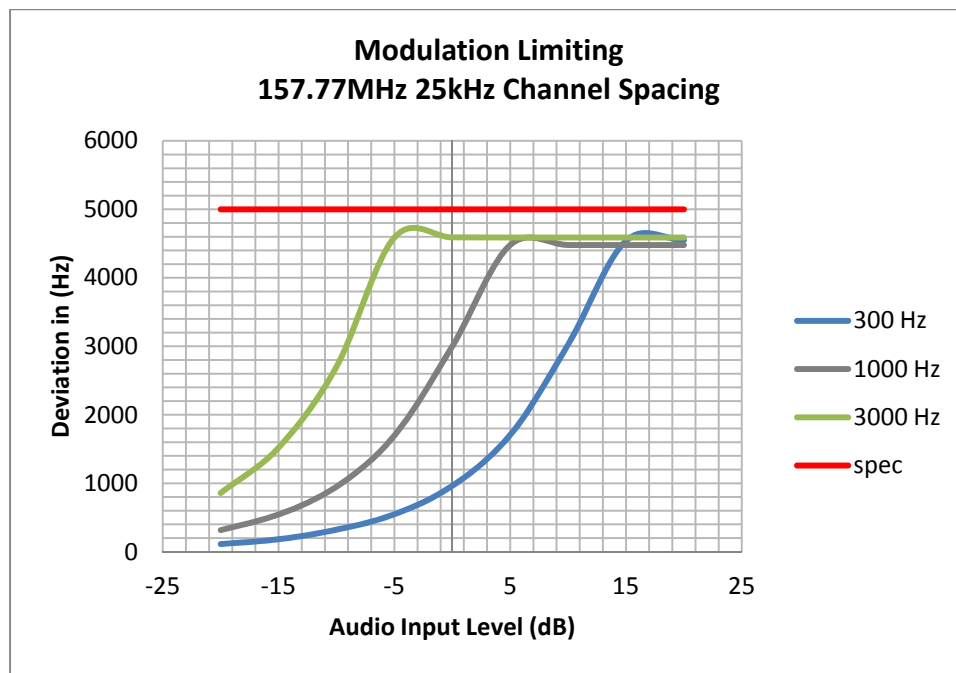
EXHIBIT 6B - Audio Frequency Response



6B-1 – 157.77 MHz, 25 kHz Channel Spacing (Part 22 & 80)

EXHIBIT 6C – Audio Low Pass Filter Response

6C-1 – 157.77 MHz, 25 kHz Channel Spacing (Part 22)

EXHIBIT 6D – Modulation Limiting

6D-1 – 157.77 MHz, 25 kHz Channel Spacing (Part 22)

EXHIBIT 6E – Occupied Bandwidth**BANDWIDTH CALCULATIONS:**

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

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

M= Maximum modulating frequency

D = Deviation

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.

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

Per CFR Title 47, Part 2, Section 2.201:

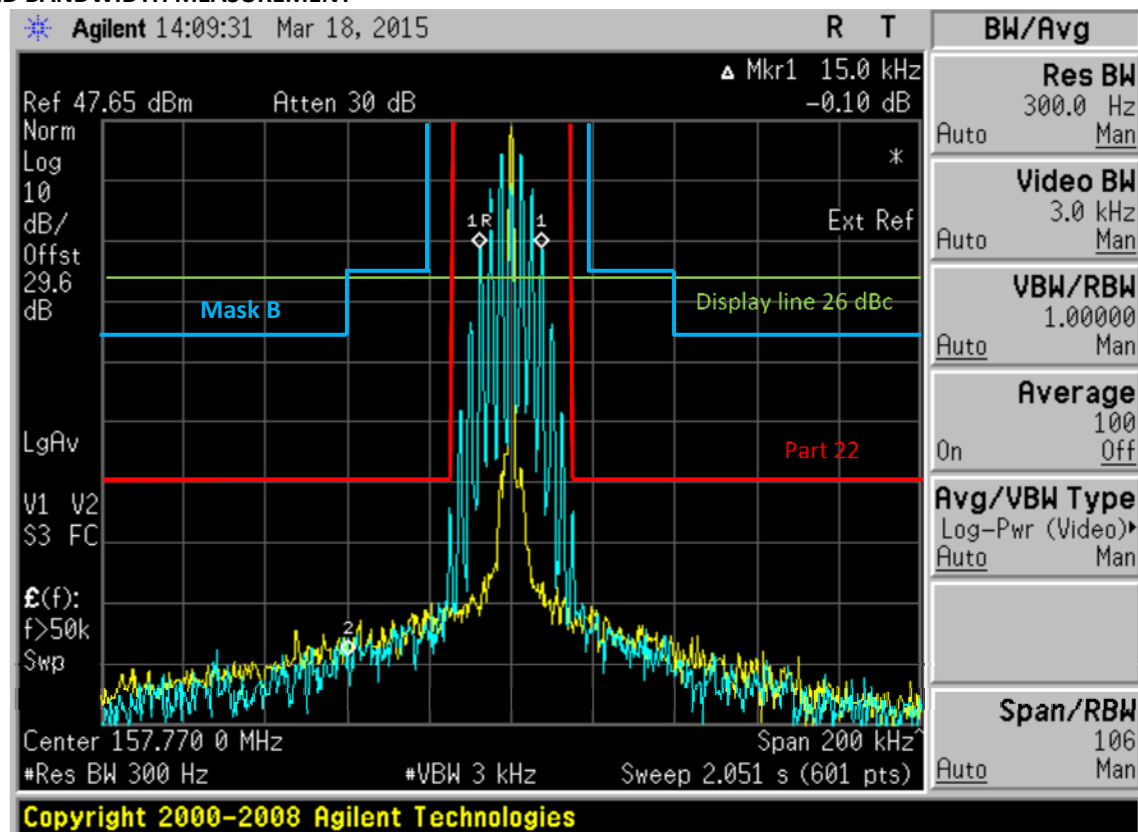
Frequency Modulation **F**

A single channel containing analogue information**3**

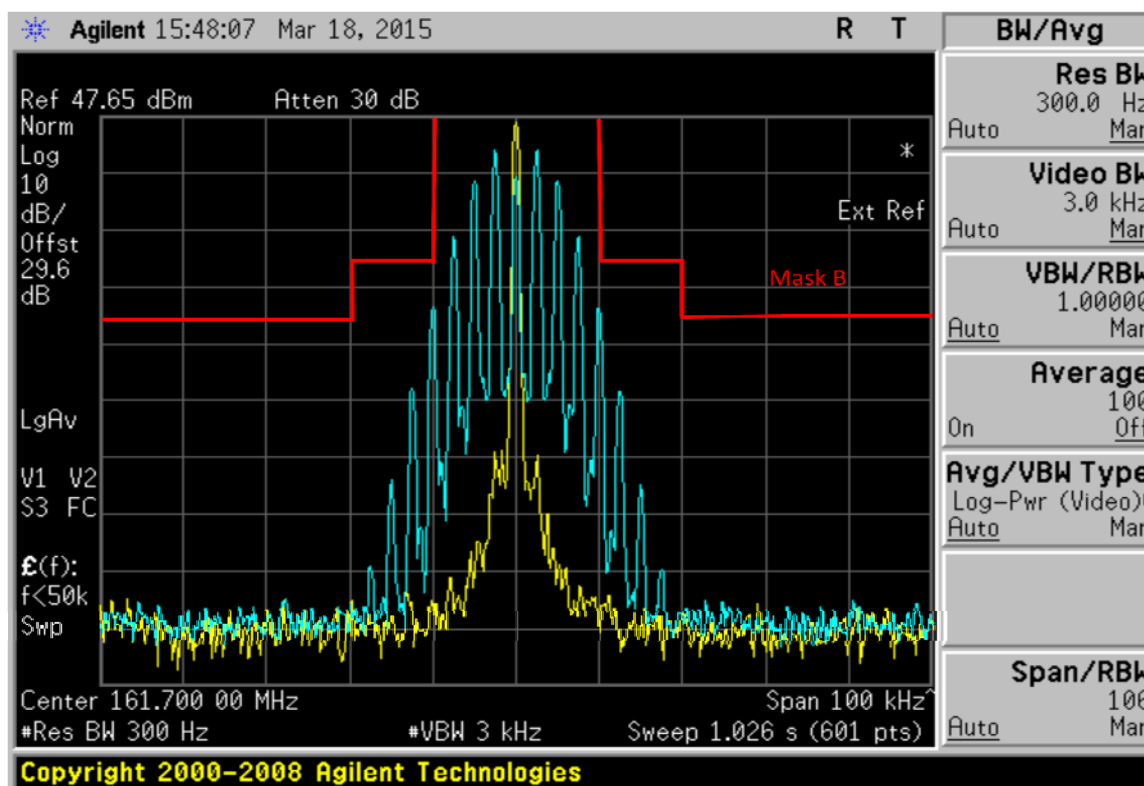
Telephony (including sound broadcasting) **E**

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

OCCUPIED BANDWIDTH MEASUREMENT

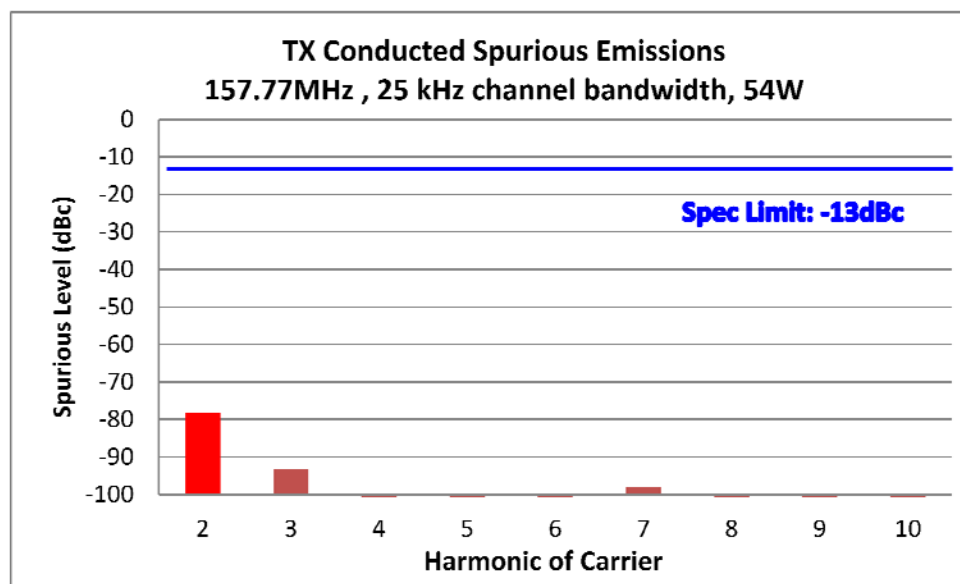


6E-1 – 157.77 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E (Part 22 & 80)

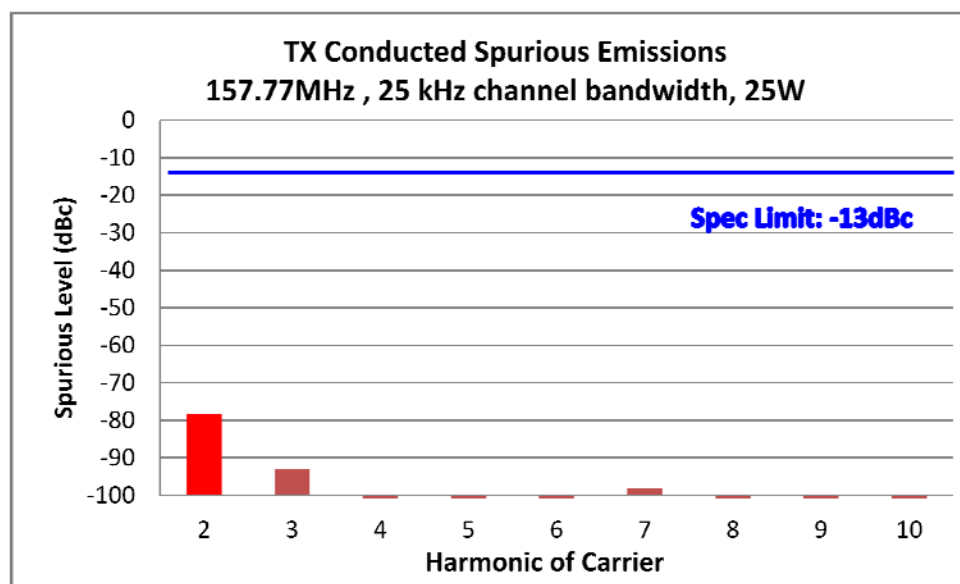


6E-2 – 161.7 MHz, 25 kHz Channel Spacing, 2500Hz Audio Modulation only, 16K0F3E, Mask B (Part 74)

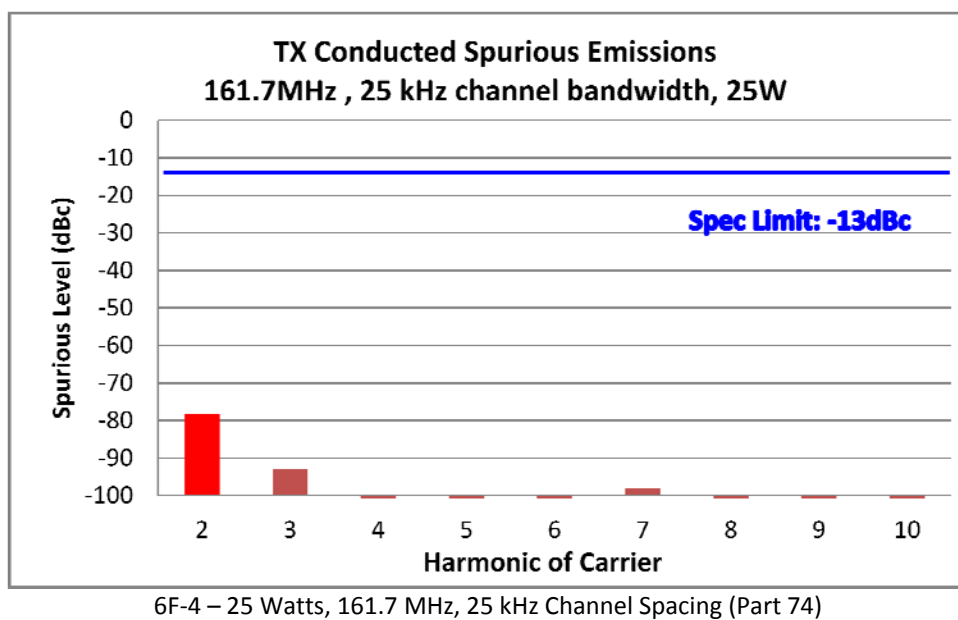
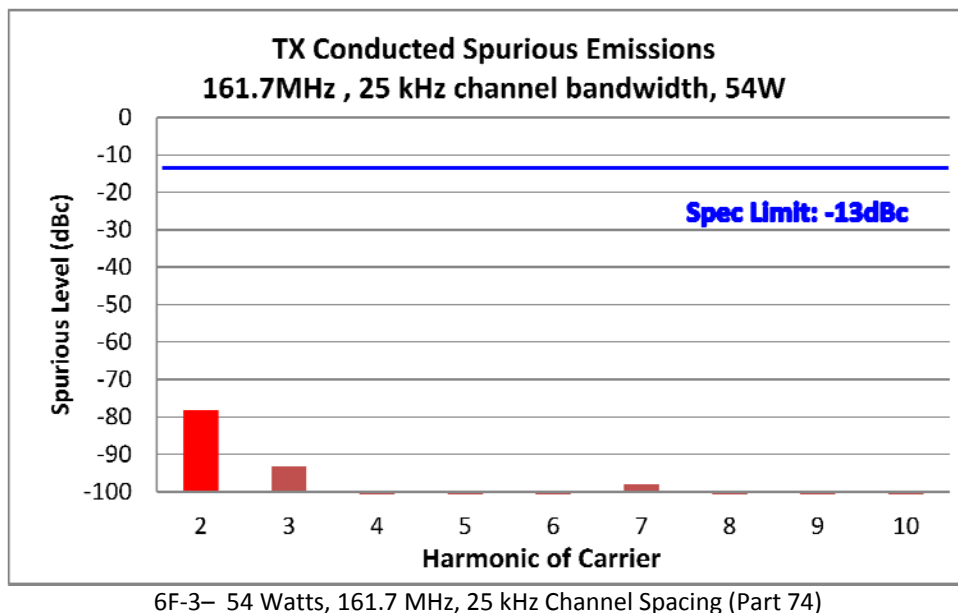
EXHIBIT 6F – Conducted Spurious Emissions



6F-1 – 54 Watts, 157.77 MHz, 25 kHz Channel Spacing (Part 22 & 80)



6F-2 – 25 Watts, 157.77 MHz, 25 kHz Channel Spacing (Part 22 & 80)



FCC ID: ABZ99FT3087

ACCY:682-RMN5053A

S/N: 511TRDD175

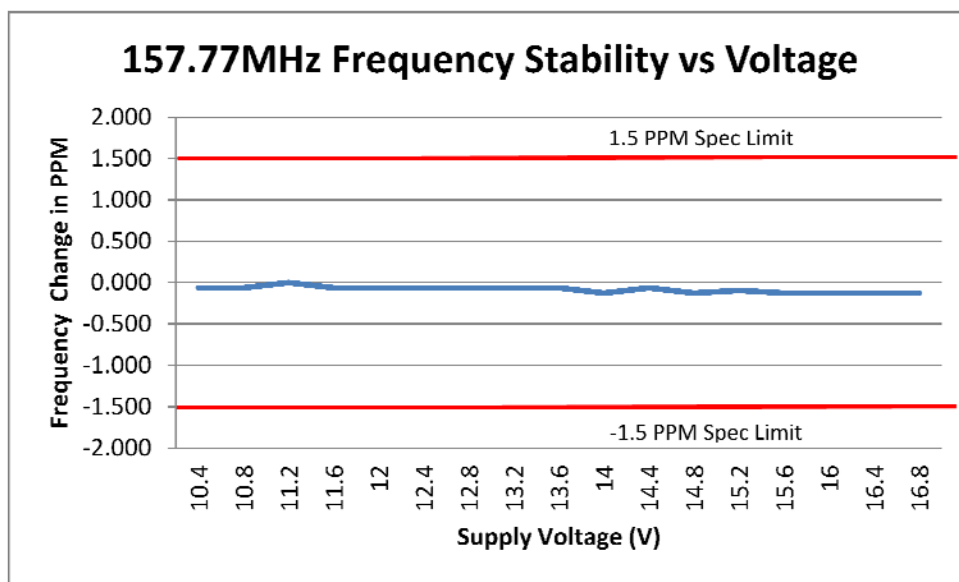
RADIATED SPURIOUS EMISSIONS

Frequency (MHz)	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
323.4000	-82	-82
495.1000	-75	-75

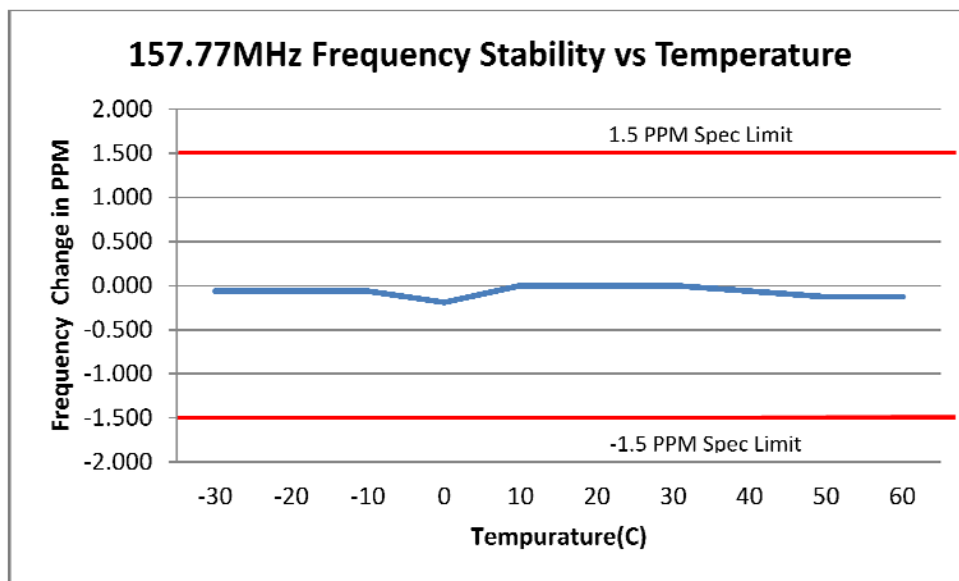
FCC Failing Limit: -100 dBm

Failed Results

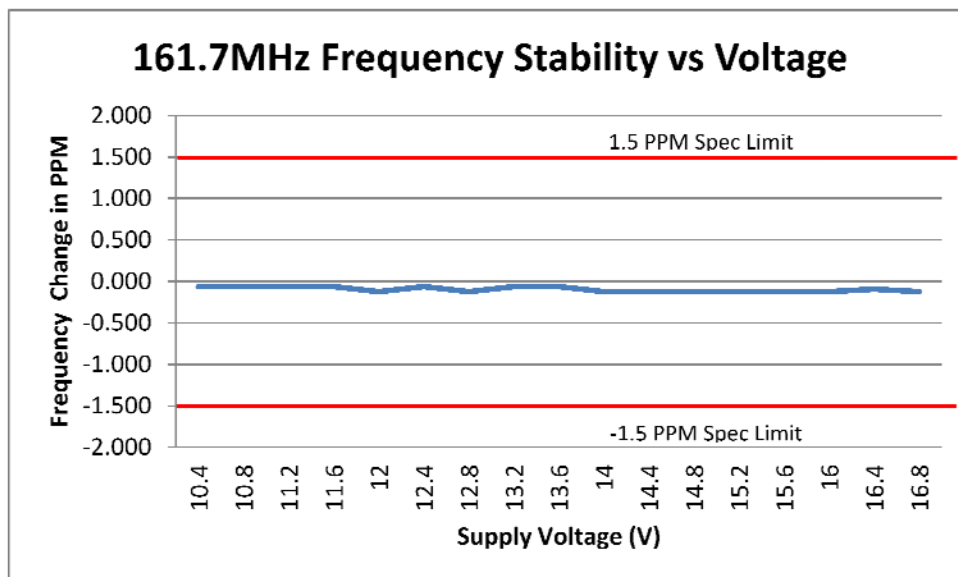
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EXHIBIT 6H – Frequency Stability

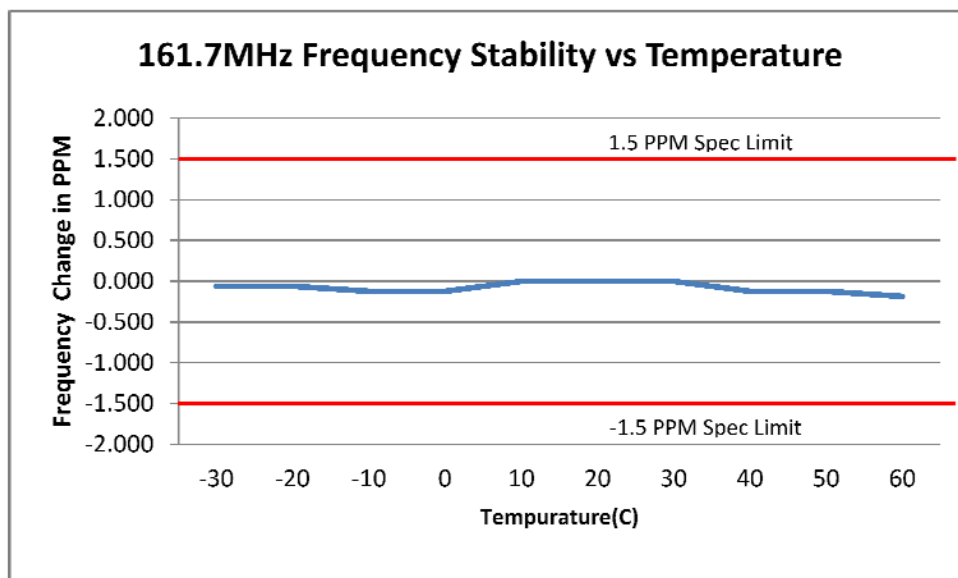
6H-1– 157.77 MHz, Frequency Stability vs Supply Voltage (Part 22 & 80)



6H-2 – 157.77 MHz, Frequency Stability vs Temperature (Part 22 & 80)



6G-3 – 161.7 MHz, Frequency Stability vs TSupply Voltage (Part 74)



6G-4 – 161.7 MHz, Frequency Stability vs Temperature (Part 74)