

Icom Inc.

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Date: November 14, 2018

Federal Aviation Administration
Office of Spectrum Policy and Management
ASR-1
800 Independence AVE. SW
Washington, DC 20591

Dear Sir/Madam,

As required under FCC Rile Part 87.147(d), Please consider this letter as notification of an application for the certification of the equipment described below.

Equipment: IC-A16 (FCC ID AFJ405200)

 $\begin{array}{ll} \mbox{Manufacturer Identification:} & \mbox{Icom Inc.} \\ \mbox{Antenna Characteristics:} & \mbox{50}\,\mbox{\Omega} \end{array}$ 

Rated Output Power: 1.8W (carrier power)

Emission Type & Characteristics: 6K00A3E/5K60A3E (Amplitude Modulation Voice)

Frequency of Operation: (TX) 118.000 to 136.99166MHz (RX) 108.000 to 136.99166MHz.

A. Tanigana

161.650 to 163.275 MHz

Essential Receiver Characteristics: Sensitivity 1  $\mu$  V;

Spurious Response 60dB  $\mu$ 

Sincerely,

Icom Incorporated

Atsushi Tomiyama

General Manager of Quality Assurance Department

## Information Necessary for FAA Review of FCC Certification Application for VHF Transmitters/Receiver.

1.) FCC identification number AFJ405200

2.) Manufacture and model number

Manufacture: Icom Inc. Model number: IC-A16

3.) Rated transmitter output power

Rated output power: 1.8W

4.) Frequency range (capable of tuning)

Frequency capable/tuning range:

TX:118.000 to 136.99166 MHz

RX:108.000 to 136.99166 MHz

RX:161.650 to 163.275 MHz

5.) Method of tuning

Microprocessor controlled phased lock loop (PLL) arrangement

6.) Channeling capability

The radio comes with 25 kHz and 8.33 kHz channel spacing.

7.) Frequency stability (transmitter)

+ / - 0.4kHz

8.) Emission bandwidth(s)

25 KHz: 6K00A3E 8.33 KHz: 5K60A3E

9.) Emission type(s)

Amplitude modulation (AM)

10.) Spectral emission plots

All harmonics and spurious emissions are more than 20dB below the specified attenuation limit.

11.) Receiver RF characteristics

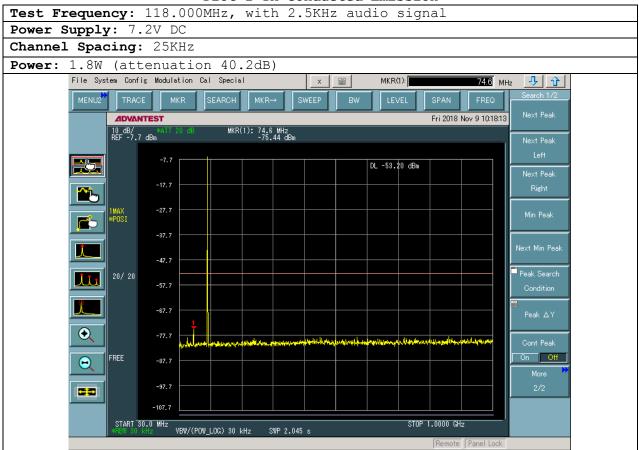
Sensitivity: 6 dB S/N 1 uV

Spurious Response: 60 dB

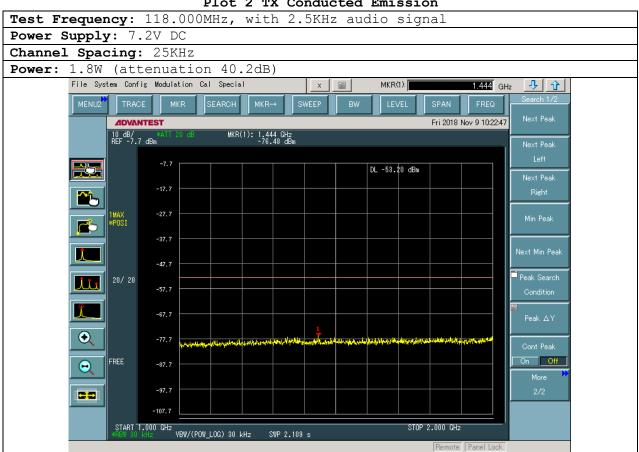
Audio output power: 0.35 W (EXT Speaker, 8ohm, 10% distortion)

Receive System: Double conversion superheterodyne

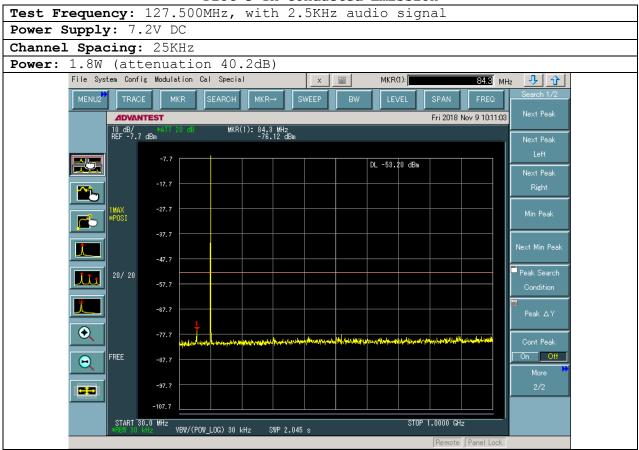
Plot 1 TX Conducted Emission



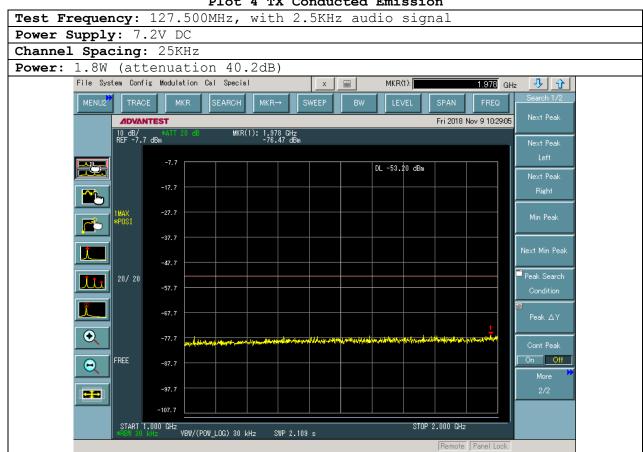
## Plot 2 TX Conducted Emission



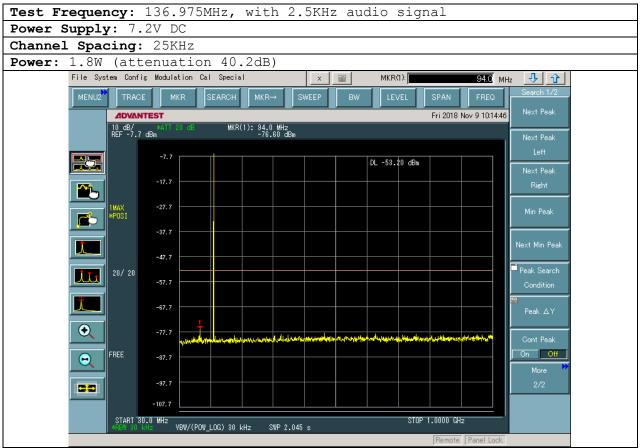
Plot 3 TX Conducted Emission



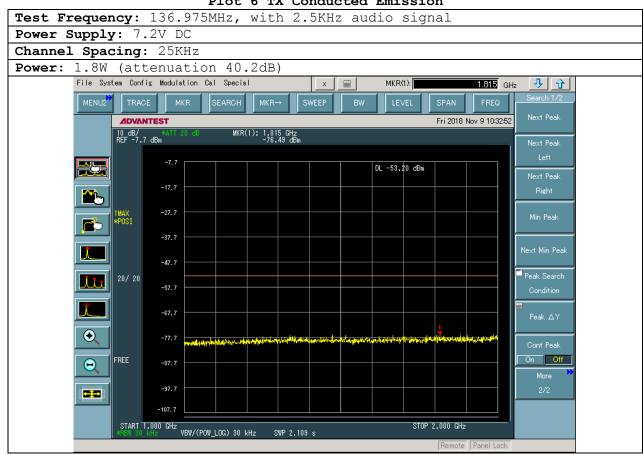
Plot 4 TX Conducted Emission



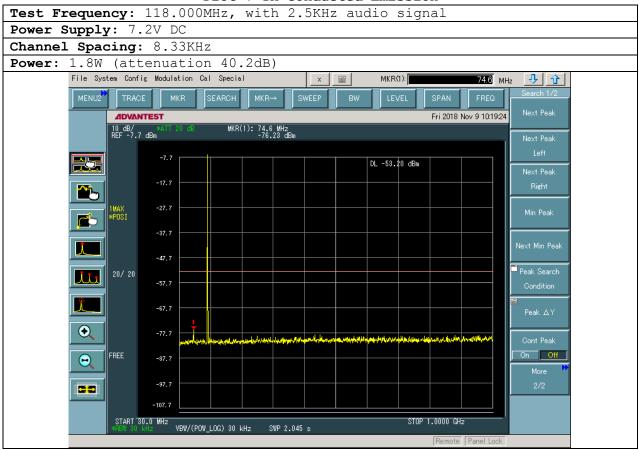
Plot 5 TX Conducted Emission



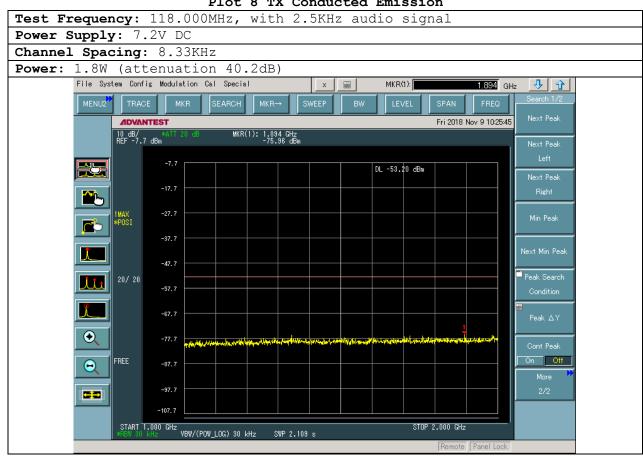
Plot 6 TX Conducted Emission



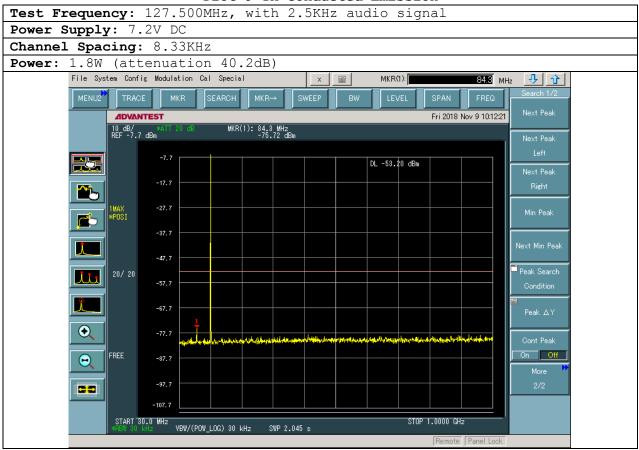
Plot 7 TX Conducted Emission



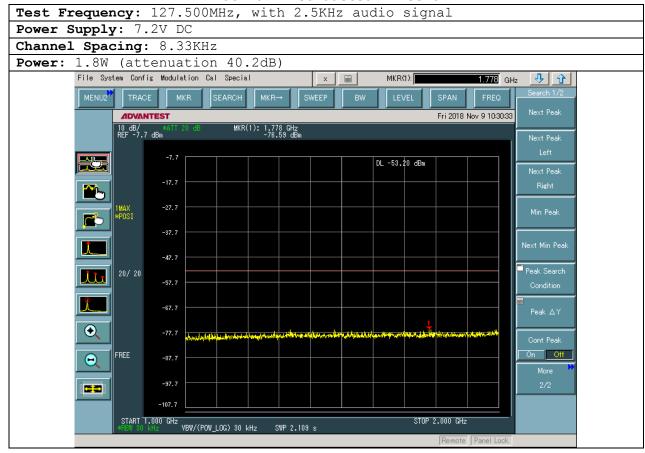
Plot 8 TX Conducted Emission



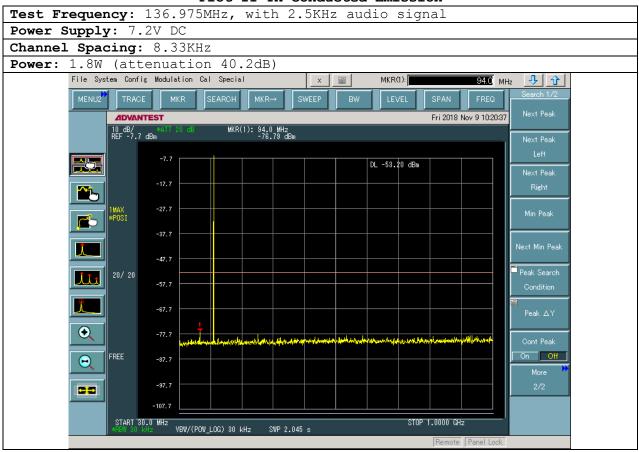
Plot 9 TX Conducted Emission



Plot 10 TX Conducted Emission



Plot 11 TX Conducted Emission



Plot 12 TX Conducted Emission

