

Icom Inc.

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Date: October 5, 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-A120 (FCC ID AFJ369710)

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

Rated Output Power: 9W (carrier power)

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

Frequency of Operation: (TX/RX) 118.000 to 136.9917MHz

Essential Receiver Characteristics: Sensitivity 1 μ V;

Spurious Response 74dB μ

lomigama

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 AFJ369710
- 2.) Manufacture and model number

Manufacture: Icom Inc. Model number: IC-A120

- 3.) Rated transmitter output power Rated output power: 9 W
- 4.) Frequency range (capable of tuning)
 Frequency capable/tuning range: 118.000 to 136.9917 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) +/- 5ppm
- 8.) Emission bandwidth(s)

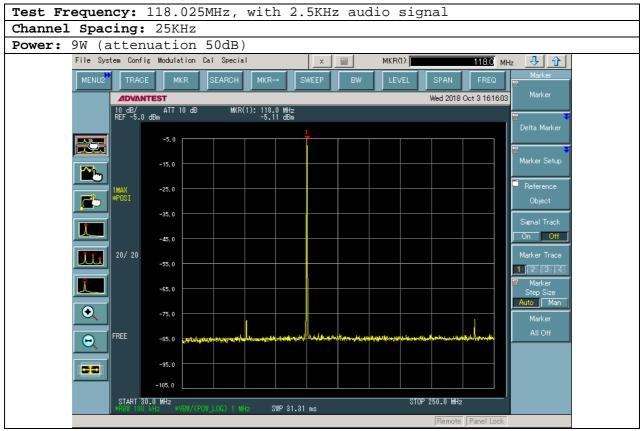
25 KHz: 6K00A3E 8.33 KHz: 5K60A3E

- 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: 74 dBu

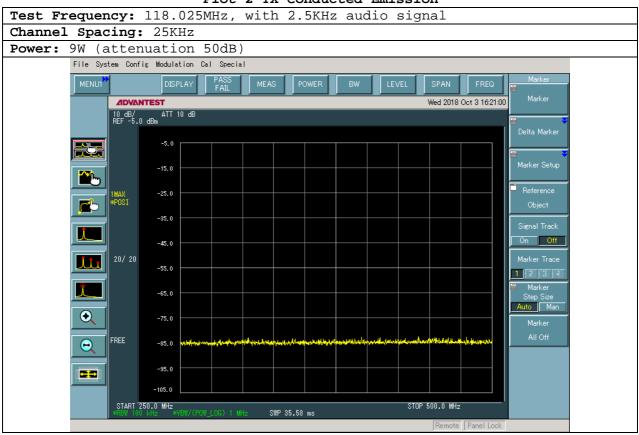
Audio output power: 10 W (EXT Speaker, 8ohm, 10% distortion)

Receive System: Double conversion superheterodyne

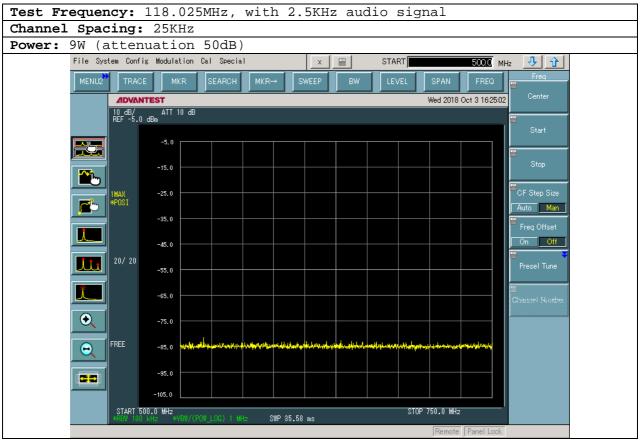
Plot 1 TX Conducted Emission



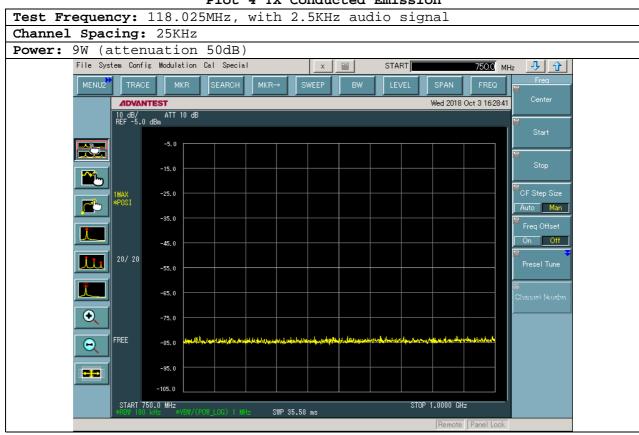
Plot 2 TX Conducted Emission



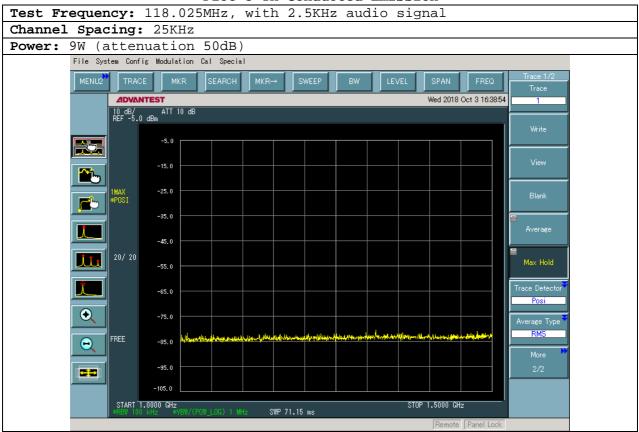
Plot 3 TX Conducted Emission



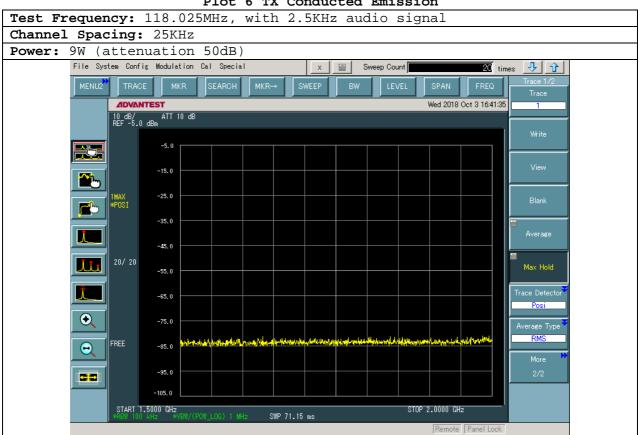
Plot 4 TX Conducted Emission



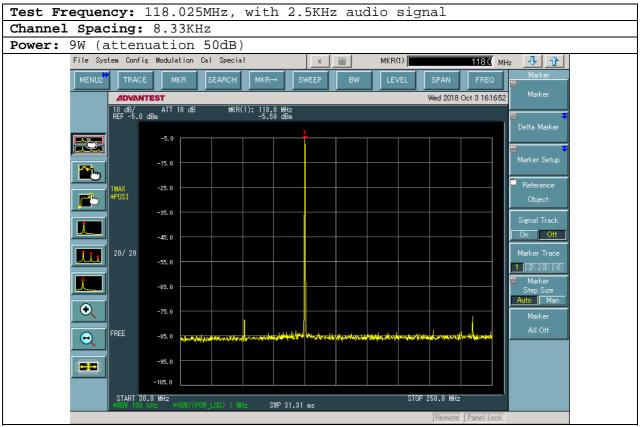
Plot 5 TX Conducted Emission



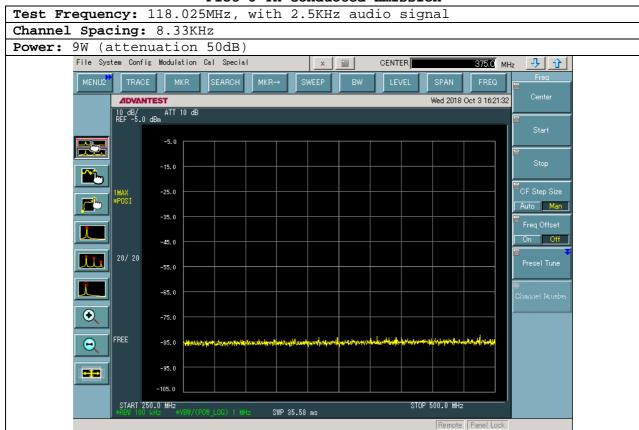
Plot 6 TX Conducted Emission



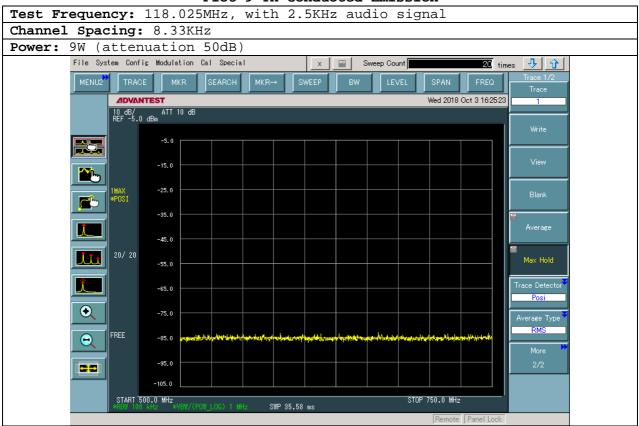
Plot 7 TX Conducted Emission



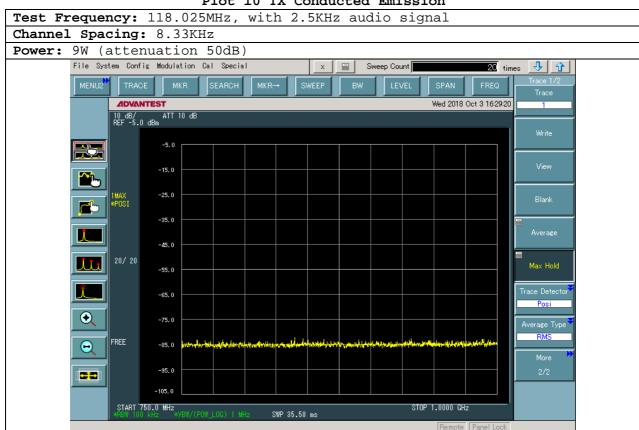
Plot 8 TX Conducted Emission



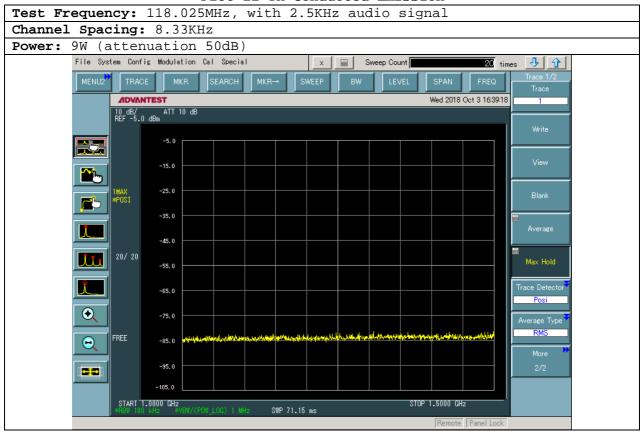
Plot 9 TX Conducted Emission



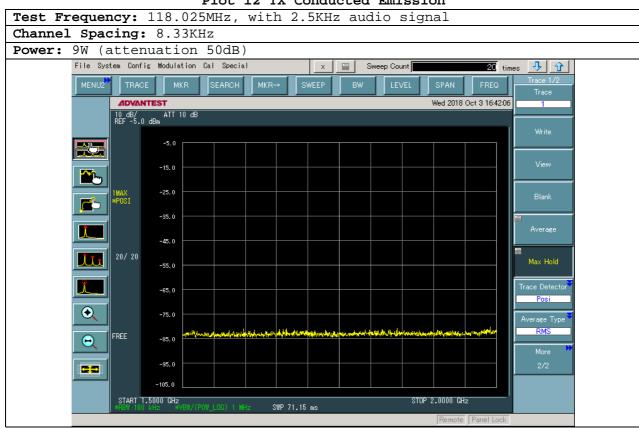
Plot 10 TX Conducted Emission



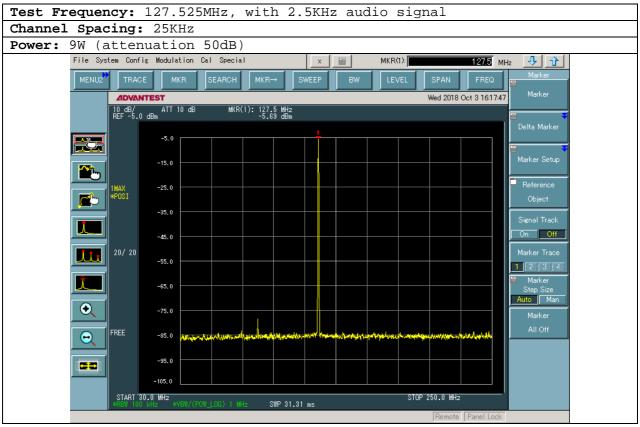
Plot 11 TX Conducted Emission



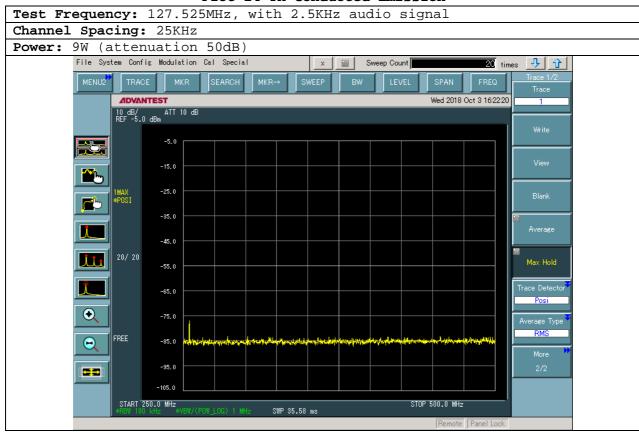
Plot 12 TX Conducted Emission



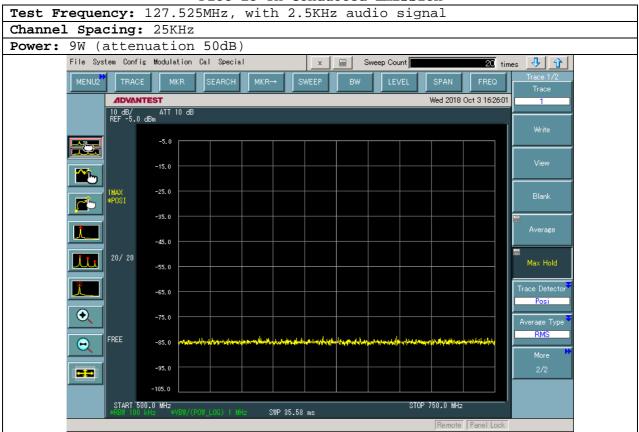
Plot 13 TX Conducted Emission



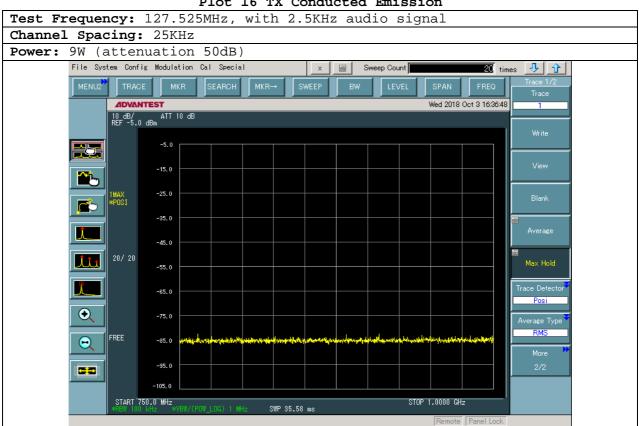
Plot 14 TX Conducted Emission



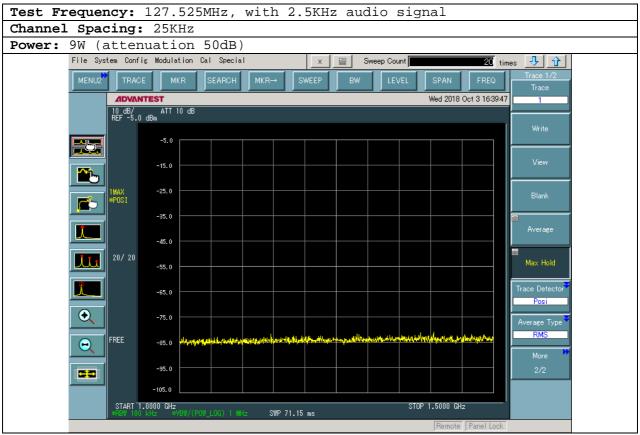
Plot 15 TX Conducted Emission



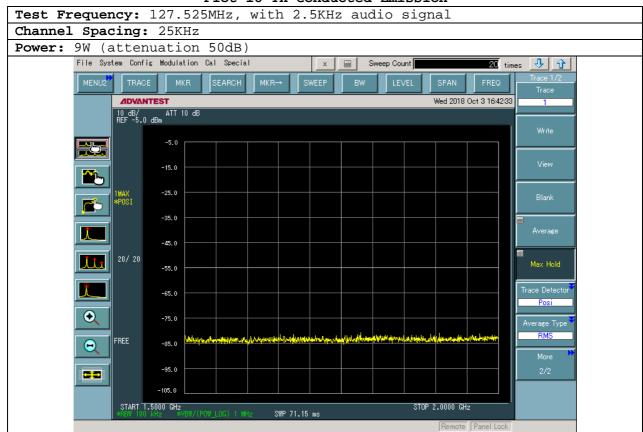
Plot 16 TX Conducted Emission



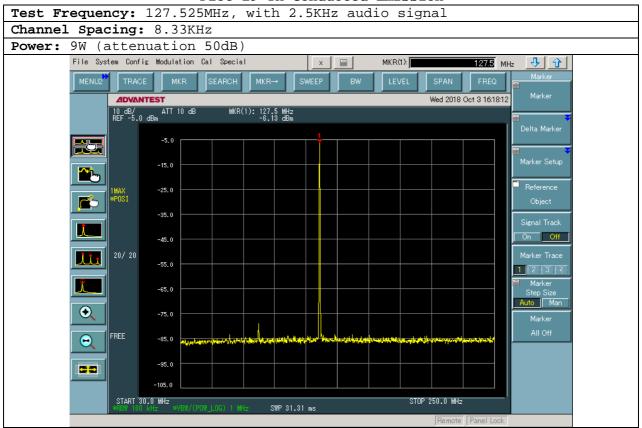
Plot 17 TX Conducted Emission



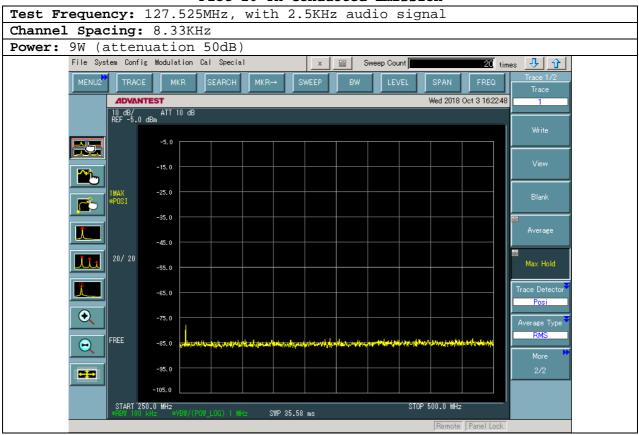
Plot 18 TX Conducted Emission



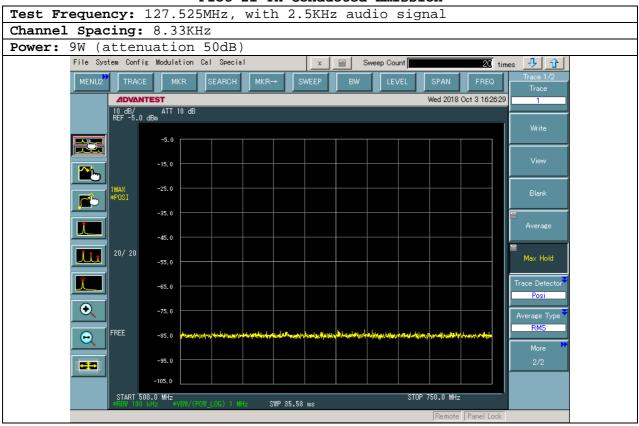
Plot 19 TX Conducted Emission



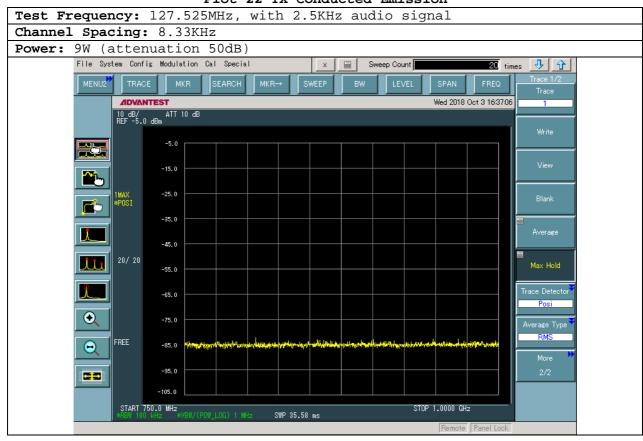
Plot 20 TX Conducted Emission



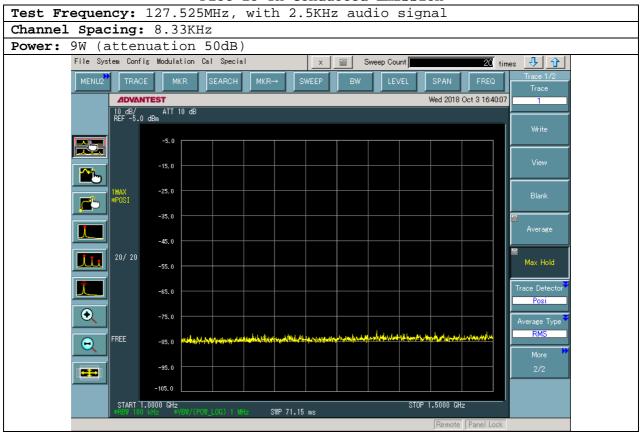
Plot 21 TX Conducted Emission



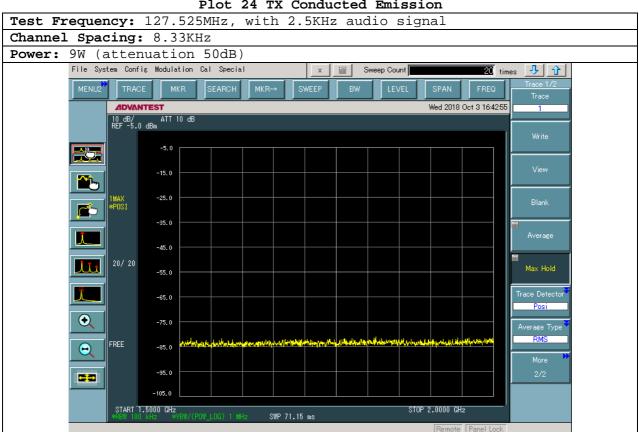
Plot 22 TX Conducted Emission



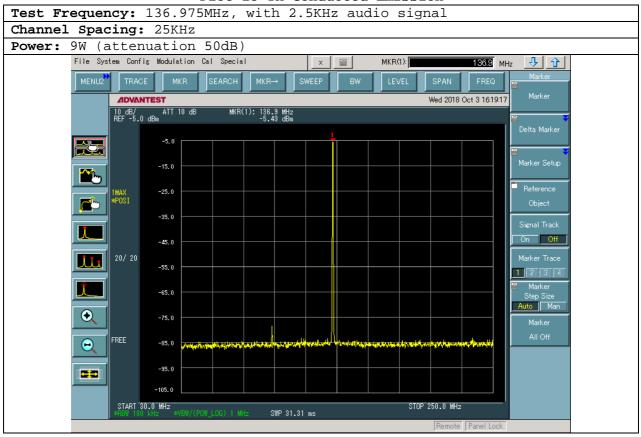
Plot 23 TX Conducted Emission



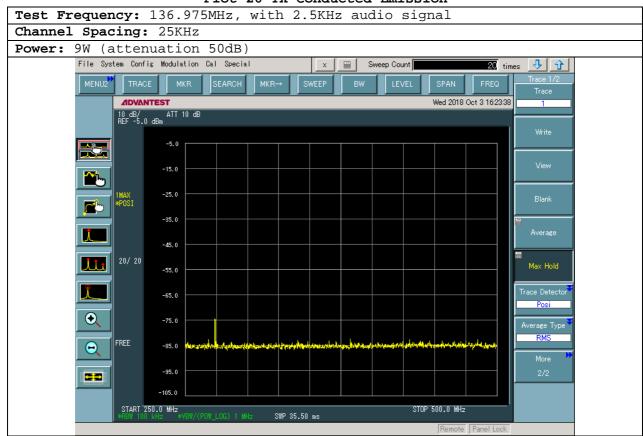
Plot 24 TX Conducted Emission



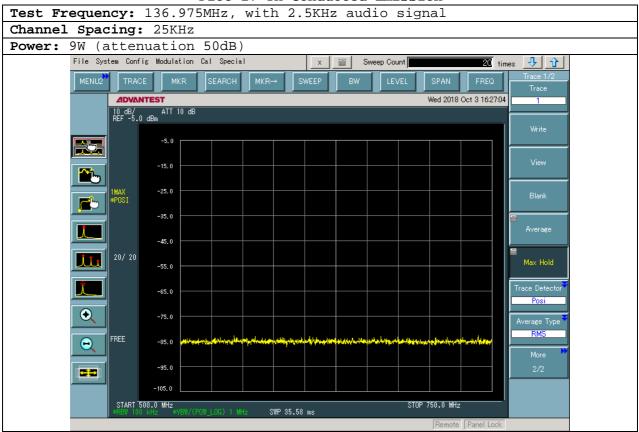
Plot 25 TX Conducted Emission



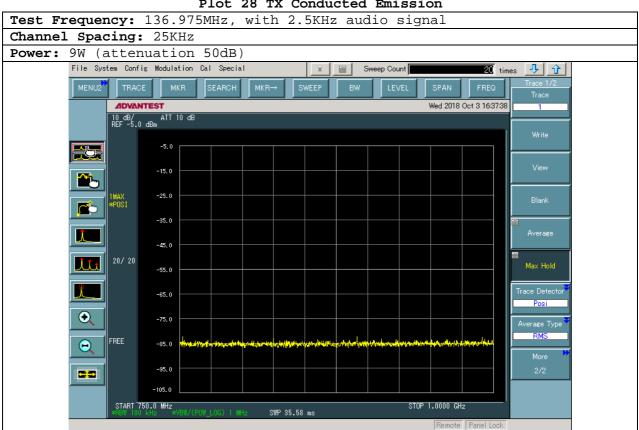
Plot 26 TX Conducted Emission



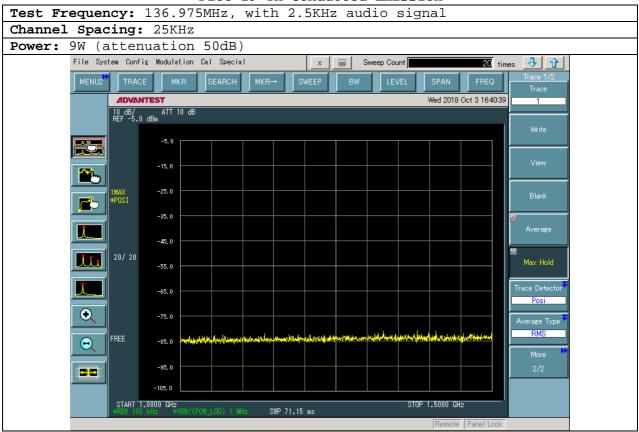
Plot 27 TX Conducted Emission



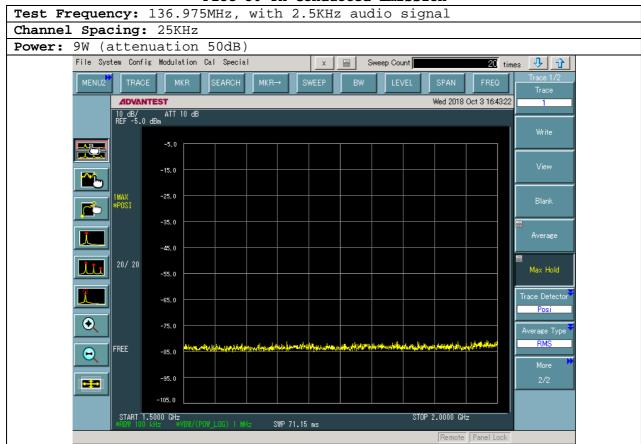
Plot 28 TX Conducted Emission



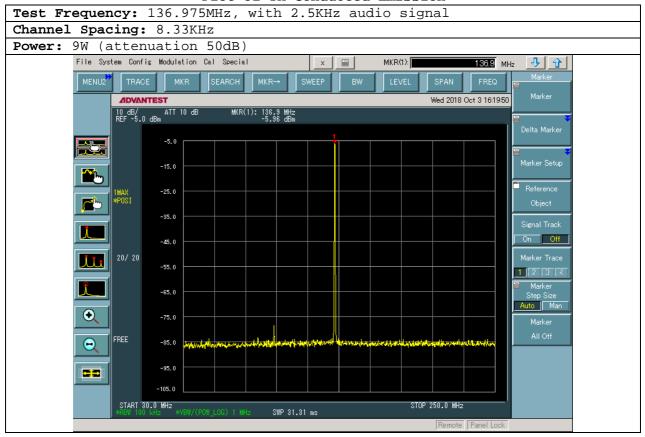
Plot 29 TX Conducted Emission



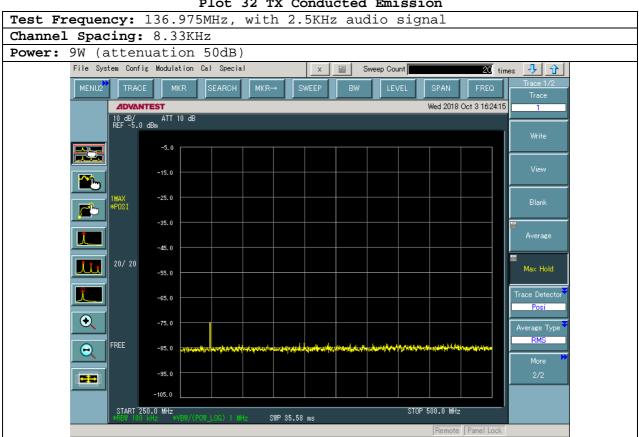
Plot 30 TX Conducted Emission



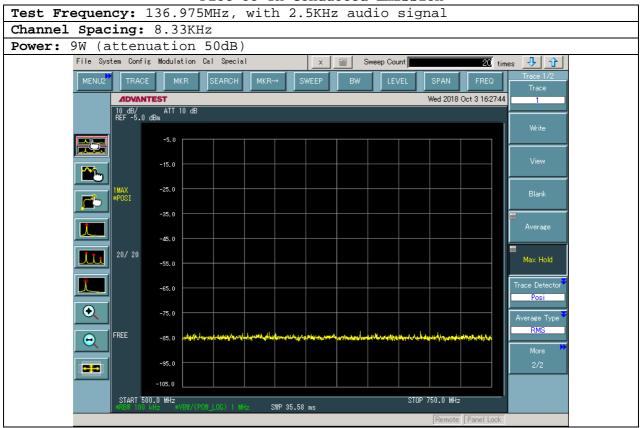
Plot 31 TX Conducted Emission



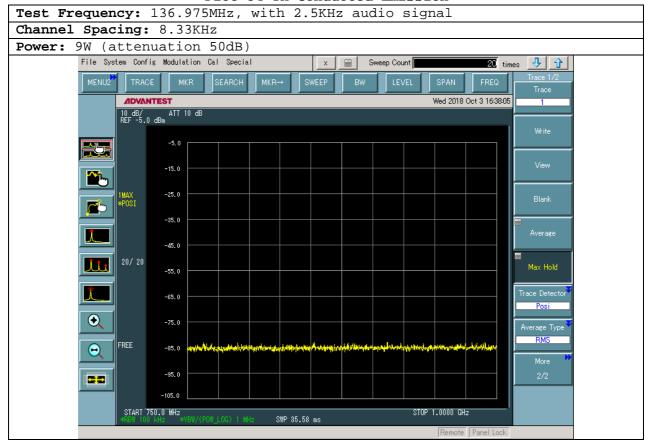
Plot 32 TX Conducted Emission



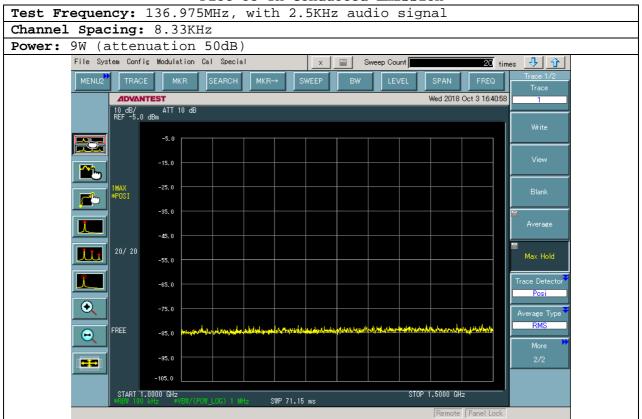
Plot 33 TX Conducted Emission



Plot 34 TX Conducted Emission



Plot 35 TX Conducted Emission



Plot 36 TX Conducted Emission

