

Date: 2007-11-29

RE: Category 1 - 15.239 FM transmitter

Category 1: FM band modulators / transmitters operating under 15.239 of the FCC rules.

Description:

The Equipment Under Test (EUT) is a [Sheenway Technology Ltd.](#), iPod/iPhone TuneCast Auto. The transmitter is a [two button](#) transmitter. The EUT continues to transmit while button is being pressed. Modulation by audio input; and type is frequency modulation.

Q1: Describe the operation of the device

A1: [\(Please see user manual\)](#)

[The transmitter is a voice transmitter operating at 88.1-107.9MHz band. The transmitter is powered by a 12V.d.c. and the transmitting frequency is IC controlled. The operation is achieved by different combinations of form frequency modulating signal on the 88.1-107.9MHz carrier frequency.](#)

Q2: Provide information on the device and its antenna.

A2: [There is no external ground connection. The ground is only that of the printed circuit board. Electric current is supplied by a 12Volt car battery.](#)

Q3: How is it installed?

A3: [\(Please see user manual\)](#)

Q4: Describe the test procedure used.

A4: [ANSI C63.4 test method is adopted.](#)

Q5: If tested in a car, describe how was it configured and tested.

A5: [We just test on test table according to ANSI C63.4 and product not mentions use on the car.](#)

Q6: At the present time, FM transmitters (subject to 15.239) tested in vehicles must also be tested on a test table. Provide both sets of data. All data must be compliant

A6: [Please see test report.](#)

Q7: Was the tuning range properly verified? The test lab should indicate in the report that the tuning controls were manually adjusted to verify maximum tuning range.

A7: [The EUT just only operation on 88.1-107.9MHz. \(the IC controlled\)](#)

Q8: Was the bandwidth properly tested with maximum audio input?

A8: [During the test, we would use MP3 or CD player input audio signal to EUT and turn max. volume with different sound \(e.g.: very loud song\) in order to get worst result.](#)

Q9: Use a typical audio file from a typical device. e.g. do not use a 1 kHz signal from a signal generator.

A9: [During the test, we would use MP3 or CD player input audio signal to EUT and turn max. volume with different sound \(e.g.: very loud song\) in order to get worst result.](#)

Q10: Provide the test report showing compliance with the rules.

A10: [HKSTC provided test report.](#)