

KDB Inquiry – Permit but Ask

a. Category:

Permit But Ask

b. Rule part under which the device authorization will be requested;

15.239

c. Description of the device including specific selection of 1 – 4 from the Permit But Ask list above (use the text description), and equipment class;

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

d. Explain the specifics of why this device is in one of the 1-4 Permit but ask categories.

Category 1 - 15.239 FM transmitter

e. Description of the test procedure plan.

According to ANSI C63.4-2003 on a test table.

f. For FM transmitters, also supply the following information;

i. Describe the operation of the device.

Device is in-car FM transmitter to play MP3 files on a conventional car FM tuner. User can plug an MP3 player such as an iPod via 3.5mm audio jack connector to this device and the device plays back the audio files on one of the 200 available channels from 88.1 to 107.9MHz to be received by the car FM tuner. User can change the channel in 0.1MHz steps. The list of available channels is detailed in the test report on page 6.

Device is DC powered by the car battery through cigarette-lighter.

For additional information user's manual is attached.

ii. Provide information on the device and its antenna.

According to its specifications it has 0dBm rated output power. Its antenna is soldered on the PCB board and has a peak gain of -0.5dB. The antenna location is shown in the internal photos with a pointer.

iii. How is it installed?

It is connected to the cigarette lighter of the car for DC power. Music input is via 3.5mm audio jack connector. Manual is attached for more details.

iv. Describe the test procedure used.

Tested according to ANSI C63.4-2003 on a test table.

Input volume from Ipod Nano was set to maximum.

Ipod was playing an audio file.

Tuning controls were adjusted to verify maximum tuning ranges. No out-of-band violation was observed.

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

Not tested in a car.

vi. 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

Test Report attached.

vii. 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.

Yes. Pg 6 of the test report indicates this.

viii. Was the bandwidth properly tested with maximum audio input?

Yes. Pg 13 of the test report indicates this.

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

Pg 13 of the test report confirms that actual audio file has been used.

x. Provide the test report showing compliance with the rules.

Test report, operational description, manual and photos of the device are attached.