



SPORTON International Inc.

No.8, Lane 724, Bo-ai St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C.

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## FCC Requested Information for 15.239 device

### FCC ID: NKRUPASV5

#### 1) How does this device operate?

Answer:

This device is a satellite radio; it receives the satellite signal from the satellite receiving antenna, decodes the audio signal to base band and couples it to the FM modulator contained in the receiver.

The output of the FM modulator is coupled to either the internal FM transmitting antenna or the external FM transmitting antenna depending on the users preference.

If performance is satisfactory with the internal FM transmitting antenna, then it is expected that the customer would not install the external FM transmitting antenna.

#### 2) Provide information on the device and its antenna.

Answer:

This device is a satellite radio that consist of the following individual pieces: (1) Internal FM transmitting antenna, (2) External FM transmitting antenna, (3) External satellite receiving antenna (4) Cigarette Lighter Adapter, (5) Car Dock, (6) Remote controller.

These two ways of transmitting can only be used individually.

#### 3) How is it installed?

Answer:

The car dock is installed to hold the radio typically below the top of the dash in order to avoid blocking the view of the road by the driver.

The internal FM transmitting antenna will normally be activated at this time and the customer will locate and tune the satellite radio to output its signal on an unused FM channel in his locale. After determining the appropriate channel, the user will tune his car radio to the same channel. If performance is not satisfactory the user is instructed to mount the external FM transmitting antenna adjacent to the window glass antenna. After mounting the external FM transmitting antenna it is plugged into the FM output port, which automatically decouples any internal FM transmitting antenna.

#### 4) What test procedure was used?

Answer:

The system is tested according to the procedures in ANSI C63.4.

Cables are manipulated on the tabletop to maximize the FM band signal level. And also, the cables are bundled as per the instruction in ANSI C63.4 and are then moved around to maximize the FM band signal. Both internal FM transmitting antenna and external FM transmitting antenna configurations are tested.



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**5) If tested in a car, how was it configured/tested?**

Answer:

It is not tested in the car.

**6) 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.**

Answer:

The tuning controls were manually adjusted to verify maximum tuning range. All controls, manual and software were adjusted to determine the maximum tuning range capability of the unit. This range is specified in the test report and is 88.1MHz to 107.9MHz.

**7) Was the bandwidth properly tested with maximum audio input?**

Answer:

Maximum internal modulation was used since the radio doesn't have an external audio input. The modulator audio input level control was set to maximum to perform this test.

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

Answer:

There is no any audio file used on the test since the maximum internal modulation was used.