
**Federal  
Communications  
Commission**

[FCC Home](#) | [Search](#) | [Updates](#) | [E-Filing](#) | [Initiatives](#) | [For Consumers](#) | [Find People](#)



**Office of Engineering and Technology**

[OET Home Page](#)

FCC > [FCC E-filing](#) > [Inquiry System Home Page](#) > Reply to OET Response [FCC Site Map](#)

**Reply to an OET Inquiry Response**

**Site Options**

[Knowledge DataBase Search](#)  
[Detail Criteria Search](#)  
[Submit An Inquiry](#)  
[Reply to an Inquiry Response](#)  
[Category List](#)  
[FAQ Search](#)  
[View Instructions](#)

**Related Sites**

[Equipment Authorization  
System \(EAS\)](#)  
[Telecommunications  
Certification Bodies \(TCB\)](#)

**Currently Display Inquiry Tracking Number****Contact Information:**

Customer First Name: **Yunus**  
Customer Last Name: **Faziloglu**  
Telephone Number: **9784868880**  
Extension: **271**  
E-mail Address: **yfaziloglu@curtis-straus.com**

**Address:**

Line 1: **N/A**  
Line 2:  
P.O. Box:  
City: **littleton**  
State: **Massachusetts**  
Zip Code: **01854**  
Country: **United States**

**Inquiry Details:**

First Inquiry Category: **TCB Procedures**  
Second Inquiry Category: **Permit but Ask**  
Third Inquiry Category:

Please find attached KDB inquiry document for a 15.239 FM transmiiter.

Following documents are attached;

1. KDB inquiry
2. Test Report
3. Manual
4. Operational Description
5. Schematics
6. Block Diagram
7. Test Setup Photos
8. Internal Photos
9. External Photos

Let me know if you require more information please.

Best Regards,  
Yunus Faziloglu  
TCB Review Engineer  
Curtis-Straus LLC

**---Reply from Customer on 01/22/2007---**

Test lab has repeated the fundamental measurements again. The difference between fundamental is much lower. Revised report is attached. Let me know if you have any questions. Yunus Faziloglu TCB Review Engineer Curtis-Straus LLC

**---Reply from Customer on 01/30/2007---**

The test lab was not using a proper MP3 file in the previous reports supplied. The file was intended to represent normal application. Please see the note on page 12 of the updated test report. Emission levels decreased slightly. The occupied bandwidth reading is in the results. Let me know if you need more information please. Yunus Faziloglu

---

**Response(s):****--OET response sent on Jan 17 2007 4:01PM--**

The peak and average levels for an FM modulated signal should be within a few dB. Please remeasure the fundamental again. Submit a corrected report.

**--OET response sent on Jan 24 2007 1:36PM--**

Please clarify the file used for the bandwidth test.

**--OET response sent on Jan 31 2007 3:27PM--**

Submit a copy of this inquiry into the filing. Ensure all exhibits comply with FCC rules.

---

**Enter any additional comments below:**

---

Please send any comments or suggestions for this site to [OET Systems Support](#)

Federal Communications  
Commission  
445 12th Street, SW  
Washington, DC 20554  
[More FCC Contact Information...](#)

Phone: 888-CALL-FCC (225-5322)  
TTY: 888-TELL-FCC (835-5322)  
Fax: 202-418-0232  
E-mail: [fccinfo@fcc.gov](mailto:fccinfo@fcc.gov)

- [Privacy Policy](#)  
- [Web Policies & Notices](#)  
- [Customer Service Standards](#)  
- [Freedom of Information Act](#)

## **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/WMA files on a conventional car FM tuner. User can plug in a USB flash drive to the USB input port or MP3 player or similar device to the audio line-in jack. And device plays back the music files on FM 88.9MHz channel to be received by the in-car FM tuner as the default setting. User can also change the FM transmission channel to the one of the following 12 channels:

88.1, 88.3, 88.5, 88.7, 88.9, 106.7, 106.9, 107.1, 107.3, 107.5, 107.7, 107.9 MHz

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.

In addition to above, specifications of the device are as follows

## SPECIFICATION

-INPUT SOURCES	USB PORT AND AUDIO INPUT
-COMPATIBLE MUSIC FORMAT	MP3, WMA
-SHUFFLE MODE	YES
-LAST STATION RECALL	YES
-14 FM FREQUENCIES:	88.1, 88.3, 88.5, 88.7, 88.9 106.7, 106.9, 107.1, 107.3, 107.5, 107.7, 107.9
-DIGITAL DISPLAY	4 DIGITS LED DISPLAY
-STEREO AUX AUDIO INPUT JACK	YES
-AUDIO CABLE INCLUDED	YES
-RED (LED) INDICATOR	POWER AND PLAYBACK INDICATION
-FOUR FUNCTION KEYS	CENTRE (PLAY/PAUSE/SHUFFLE), LEFT (REW), RIGHT (FFW) DOWN (CHANNEL UP)
RF OUTPUT IMPEDANCE	50Ω
MODULATION	FM MODULATION
SUPPLY VOLTAGE	12V
OPERATING TEMPERATURE	-10 – +65°C
HUMIDITY	≤ 85%
AUDIO INPUT LEVEL	-14 dBV
AUDIO INPUT FREQUENCY RANGE	30 – 15K HZ
CHANNEL SEPARATION	25db
TOTAL HARMONIC DISTORTION	0.1 %
TRANSMISSION OUTPUT LEVEL	1.5 dbm 50Ω
ANTENNA TYPE	BUILT-IN

iii. How is it installed?

It is connected to the cigarette lighter of the car for DC power. Music input is via USB port or Line-in Audio Jack. Manual is attached.

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.

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 12 of the test report indicates this.

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

Yes. Pg 12 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.

Ipod MP3 player was used for typical real-life application.

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

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