



TUV SUD BABT TCB
 Octagon House,
 Segensworth Road,
 Fareham,
 Hampshire,
 PO15 5RL

RF exposure information

Date: **Aug. 04, 2015**

FCC ID: **NT862932**; IC: **3043A-62932**

1. Introduction

The device is designed to be installed in mobile exposure conditions. It integrates a Bluetooth transmitter and a 2.4 WiFi transmitter which can not operate simultaneously.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all the persons and must not be co-located or operating in conjunction with any other antenna or transmitter except as under the conditions described KDB 447498 D01 General RF Exposure Guidance.

2. MPE exposure limits

The table below is excerpted from Table 1B of 47 CFR 1.1310 titled Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure:

Frequency Range (MHz)	Power density (mW/cm ²)	Averaging time (minutes)
1500 – 100.000	1,0	30

The table below is excerpted from RSS-102, Issue 5, 4, titled “Table 4: RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)”:

Frequency Range (MHz)	Power density (W/m ²)	Averaging time (minutes)
300-6000	0.02619 $f^{0.6834}$	6

3. Compliance criteria

Power density of individual transmitters is calculated using the equation:

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density (in appropriate units, e.g. mW/cm²)
 P = power input to the antenna (in appropriate units, e.g., mW)
 G = power gain of the antenna in the direction of interest relative to an isotropic radiator
 R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Power density must be lower than the MPE limits stated in item 2.

4. Compliance calculations

Frequency Band (MHz)	Mode	Frequency Range (MHz)	Reference frequency (Lowest freq.) (MHz)	Maximum conducted output power (per tune-up) (dBm)	Antenna gain (dBi)	Evaluation distance for compliance with MPE limits (cm)	FCC MPE limit (mW/cm ²)	IC MPE limit (mW/cm ²)	$S = \frac{PG}{4\pi R^2}$ (mW/cm ²)
2400-2483,5	Bluetooth Basic Rate	2402-2480	2402,0	3,53	0,39	20	1,000	0,535	0,00049
2400-2483,5	Bluetooth EDR	2402-2480	2402,0	5,81	0,39	20	1,000	0,535	0,00083
2400-2483,5	802.11b	2412-2462	2412,0	17,44	0,39	20	1,000	0,537	0,01207
2400-2483,5	802.11g	2412-2462	2412,0	16,22	0,39	20	1,000	0,537	0,00911
2400-2483,5	802.11n20	2412-2462	2412,0	15,28	0,39	20	1,000	0,537	0,00734

Yours sincerely,

Name: Mr Terry SanSouci
 Position: Product Assurance Test Engineer
 Company: Visteon Corporation
 Phone: 734-710-7137
 e-mail: tsansouc@visteon.com

p.a.