

FCC ID: 2AHPN -BE2838

Model: GEN3.1 HIGH VA

Device is an Automotive Infotainment Unit with Bluetooth/WLAN. In normal installation, its antenna is more than 20cm away from users and therefore considered as a mobile device for RF exposure.

Maximum Permissible Exposure (MPE) can be calculated as follows:

Equation from page 18 of OET Bulletin 65, Edition 97-01					
	$S = \frac{PG}{4\pi R^2}$				
where:	S = power density				
	P = power input to the antenna				
	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				

Device has the following characteristics.

Radio	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	MPE (mW/cm ²)	Limit at 20cm (mW/cm ²)
Bluetooth	2402-2480	4.73	1.28	0.000794	1.0
802.11bgn(20)	2412-2462	17.109	1.28	0.013729	1.0
802.11a/n(HT20)/ac(VHT20)	5180-5240	11.167	-1.77	0.001732	1.0
802.11n(HT40)/ac(VHT40)	5190-5230	11.295	-1.77	0.001783	1.0
802.11ac(VHT80)	5210-5210	10.685	-1.77	0.001550	1.0
802.11a/n(HT20)/ac(VHT20)	5745-5825	15.147	-1.77	0.004329	1.0
802.11n(HT40)/ac(VHT40)	5755-5795	14.146	-1.77	0.003438	1.0
802.11ac(VHT80)	5775-5775	12.762	-1.77	0.002500	1.0

None of the radios can transmit simultaneously.

Per above, device complies with FCC's RF radiation exposure limits for general population as a mobile device (d >20cm).