



RF Exposure evaluation for mobile use

Model: **OBD 2.0 3G BT OBD 2.0 TETH**

FCC ID: **2AHR8 OBD20**

RF Exposure Evaluation

Standards
OET Bulletin 65 Edition 97-01 August 1997
FCC 47 CFR §1.1307
FCC 47 CFR §1.1310

Test limits

As specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure.

Frequency range (MHz)	Power density (mW/cm ²)
300 – 1,500	f/1500
1,500 – 100,000	1.0

$$\text{Equation OET bulletin 65, page 18, edition 97-01: } S = \frac{PG}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$$

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

Band	Mode	Duty Cycle	Frequency (MHz)	Maximum Conducted output power (dBm)	Equivalent conducted output power (mW)	FCC MPE Limit (mW/cm ²)	MPE Value using Max gain of 2,7 dBi	Separation distance (cm)	Verdict
BLE	GFSK	64.0%	2440.0	8.0	6,31	1.0000	11,7	1	Pass

Yours sincerely,

Dirk Bratsch