



RF Exposure evaluation for mobile use

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RF Exposure Evaluation

Standards
OET Bulletin 65 Edition 97-01 August 1997
FCC 47 CFR §1.1307
FCC 47 CFR §1.1310
RSS-102, issue 5

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

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 dBi	Separation distance (cm)	Verdict
Classic BT	GFSK 1-DH1	100%	2402.0	10.6	11.48	1.000	0.0036	20	Pass
BLE	GFSK 1-DH1	100%	2440.0	8.10	6.46	1.000	0.0020	20	Pass
WLAN 2.4	DSSS	100%	2462.0	19.60	91.20	1.000	0.0288	20	Pass
WLAN 5	OFDM	100%	5745	20.30	107.15	1.000	0.0338	20	Pass



Yours sincerely,

Imad Hjije

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