



RF Exposure evaluation for mobile use

Model: **52R0**

FCC ID: **YBN-52R0**

RF Exposure Evaluation

| Standards |
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| 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 |

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 3 dBi | Separation distance (cm) | Verdict |
|-----------|----------------|------------|-----------------|--------------------------------------|--|-------------------------------------|-----------------------------------|--------------------------|---------|
| Bluetooth | 8-DPSK (3-DH1) | 64.0% | 2441.0 | -1.0 | 0,79 | 1.0000 | 0.0 | 20 | Pass |

Yours sincerely,

Dirk Bratsch