

Evoke Flow RF Exposure:

The Evoke Flow is intended as a mobile device. A warning statement is included in the user manual advising users to maintain a minimum distance of 20cm.

Evaluation is therefore for exposure potential against the MPE limits given in Appendix A of OET Bulletin 65, Supplement C: 1500-100,000MHz; 1mW/cm²

Compliance requirements are based upon General population / Uncontrolled exposure.

Equation (3) of OET Bulletin 65:

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

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 centre of radiation of the antenna (appropriate units, e.g. cm)

Substituting known values for the Evoke Flow:

WiFi part:

P = 54 mW

G = 0.945

R = 20 cm (for mobile use)

$$S = 0.010152 < 1\text{mW/cm}^2$$

WUSB part:

P = 1.2mW

G = 0.340

R = 20cm (for mobile use)

$$S = 0.000081 < 1\text{mW/cm}^2$$

For co-located transmitters the total exposure quotients must not exceed unity:

$$\frac{S_{WiFi}}{1} + \frac{S_{WUSB}}{1} = 0.010233095 < 1$$