

## RF exposure statement

The maximum peak output power of the product **FCC ID: H5P-RS1NJT499** is 40.0867mW.

Since this product is used in such a way that a separation distance of at least 20 centimeters is normally maintained between the antenna and the body of the user or nearby persons, it is considered as a ‘mobile’ device, and SAR testing is excluded.

The maximum permissible exposure (MPE) for the general population is 1mW/cm<sup>2</sup>.

As can be seen from the MPE results shown below, the product **FCC ID: H5P-RS1NJT499** is deemed to comply with the requirements of FCC 47CFR 2.1091 ‘Radiofrequency radiation exposure evaluation: mobile devices’.

### RF exposure calculations

$$S = \frac{PG}{4*\pi*R^2} = \frac{40.0867*1.58}{4*\pi*(20\text{cm})^2} = \mathbf{0.01260\text{mW/cm}^2} \quad (\text{limit}=1\text{mW/cm}^2)$$

where: S = power density

P = power input to the antenna (40.0867mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator (1.58mW = 2dBi)

R = distance to the center of radiation of the antenna (20 cm)

| Antenna type | Power input to the antenna (P)<br>[mW] |         | Gain (G)<br>[dBi] | Distance (R)<br>[cm] | Power Density (S)<br>S=PG/(4*π*R <sup>2</sup> )<br>[mW/cm <sup>2</sup> ] | Limit<br>[mW/cm <sup>2</sup> ] |
|--------------|--|---------|-------------------|----------------------|--|--------------------------------|
| TK-1619A     | 802.11b                                | 40.0867 | 2.0<br>(1.58mW)   | 20                   | 0.01260  | 1.0                            |
|              | 802.11g                                | 11.0408 |                   |                      | 0.00347  |                                |
| ANTB18-127A0 | 802.11b                                | 39.1742 | 1.9<br>(1.55mW)   | 20                   | 0.01236  |                                |
|              | 802.11g                                | 10.7895 |                   |                      | 0.00340  |                                |