

RF exposure information

FCC ID: 2AGD7TRAC

1. Introduction:

This product is an alcohol tester with Bluetooth 4.0 function operated in 2402~2480 MHz frequency band.

2. Output power considerations:

Worst case output power: -0.595dBm = 0.872mW (at 2440MHz)

3. Compliance criteria:

According to 447498 D01 General RF Exposure Guidance v05 the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}$$
where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

Calculate:

$$(0.872/5) \cdot \sqrt{(2.44)} = 0.272 < 3 \text{ for 1g SAR}$$

Then SAR evaluation is not required.