

FCC RF Exposure

Product Name: Blue tooth TAG

FCC ID: 2BLQP-BLUETRAC

Model(s): BlueTrac

1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 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:

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

Where:

Result = $P/D \cdot \sqrt{F}$

F = the RF channel transmit frequency in GHz

P = Maximum turn - up power in mw

D = Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

NFC: EIRP(dBm) = 84.22 (dBuV/m) - 95.2 = -10.98(dBm)

| Frequency (MHz) | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up power dBm/mW | Min test separation distance mm | Result | Limit | SAR Test Exclusion |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|--------------------------|---------------------------------|--------|-------|--------------------|
| NFC: 13.56 | -10.98 | -10 ± 1 | -9/0.13 | 5 | 0.003 | 3.0 | Pass |
| BLE: 2402 | -0.01 | 0 ± 1 | 1/1.26 | 5 | 0.391 | 3.0 | Pass |
| Note: PK Output power = conducted power. Conducted power see the test report HK2408234895-2E , antenna gain = 1dBi(BT), 0dBi(NFC) NFC (max) = 0.003 (mW/cm ²) BLE (max) = 0.391 (mW/cm ²) simultaneously MPE = 0.003 + 0.391 = 0.394 | | | | | | | |

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.394 which is ≤ 3 , RF Exposure testing is not required.

Note: Exclusion Thresholds Results = $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

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

Distance = 5mm