

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:

$$\text{Result} = P/D \cdot \sqrt{f}$$

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 \pm 1	-9/0.13	5	0.003	3.0	Pass
BLE: 2402	-0.01	0 \pm 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/cm²)

BLE (max)= 0.391 (mW/cm²)

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

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

Distance=5mm