

FCC RF Exposure

EUT Description: **Trail Camera**

Model No.: **DTC10**

FCC ID: **2AVBN-DTC10**

1. Limits

According to KDB 447498 D04 General RF Exposure Guidance v01 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:

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

| | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up power dBm/mW | Min test separation distance mm | Result | Limit | SAR Test Exclusion |
|----------|--------------------|---------------------|--------------------------|---------------------------------|--------|-------|--------------------|
| 2.4GWIFI | 3.36 | 2.5±1(3.5) | 2.239 | 5 | 0.695 | 3.0 | Pass |
| BLE | 1.16 | 0.5±1(1.5) | 1.413 | 5 | 0.438 | 3.0 | Pass |

Note:

PK Output power = conducted power.

Conducted power see the test report **HK2203241167-1E/2E**

2.4GWIFI antenna gain = 2dBi

BT antenna gain = 2dBi

WiFi and BT Simultaneous evaluation

$0.695 + 0.438 = 1.133 < 3$

Per KDB 447498 D04, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 1.133 which is ≤ 3 , SAR 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