

FCC RF Exposure

EUT Description: Smart AI Glasses

Model No.: Fansee Glasses

FCC ID: 2BC3D-FANSEE

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:

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

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

	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
BLE	2480	2.59	2±1	3/1.995	5	0.628	3.0	Pass
EDR	2480	1.97	1±1	2/1.585	5	0.499	3.0	Pass
2.4G WiFi	2412	7.73	7±1	8/6.310	5	1.960	3.0	Pass

Note:

PK Output power = conducted power.

Conducted power see the test report **HK2601080051-1E/2E/3E**,

BT antenna gain = -1.75dBi, 2.4GWiFi antenna gain = 2.98dBi.

BLE and EDR cannot be transmitted at the same time.

BT and 2.4GWiFi Simultaneous evaluation:

$0.628/3 + 1.960/3 = 0.863 < 1$, SAR testing is not required

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 meets the requirements, SAR testing is not required.

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

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

Distance = 5mm