

FCC RF Exposure

EUT Description: Smart glasses

Model No.: GJ03A

FCC ID: 2AKUO-GJ03A

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:

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

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 (mW)	Min test separation distance (mm)	Result	Limit	SAR Test Exclusion
BLE	2480	1.15	1±1	1.585	5	0.499	3.0	Pass
EDR	2480	1.69	1±1	1.585	5	0.499	3.0	Pass
2.4G WiFi	2437	4.89	4±1	3.162	5	0.987	3.0	Pass

Note:

PK Output power = conducted power.

Conducted power see the test report HK2511176181-1E/2E/3E, BT antenna gain = -1.75dBi, 2.4GWiFi antenna gain = 2.3dBi.

BT and 2.4GWiFi Simultaneous evaluation:

$0.499 / 3 + 0.987 / 3 = 0.495 < 1$, 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 = $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

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

Distance = 5mm