

**Product Name:** Smart Audio Glasses

**Model No.:** BG-01

**FCC ID:** 2AWKTSKCTBG01

## 1.1 RF Exposure Compliance Requirement

### 1.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### 1.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  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  $\leq 7.5$  for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

### 1.1.3 EUT RF Exposure

Operational Mode: EDR (8-DPSK worst case)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
2402MHz	7.80	$\pm 1$	8.80	7.59	2.35	3.0
2441MHz	7.36	$\pm 1$	8.36	6.85	2.14	
2480MHz	6.78	$\pm 1$	7.78	6.00	1.89	
Operational Mode: BLE						
2402	6.69	$\pm 1$	7.69	5.87	1.82	3.0
2442	6.19	$\pm 1$	7.19	5.24	1.64	
2480	5.76	$\pm 1$	6.76	4.71	1.49	
Conclusion: the calculated value $\leq 3.0$ , SAR is exempted.						

Remark: The device have left and right eyeglass frame electrically, The left eyeglass frame electrically is worst case. Refer to project No. BLA-EMC-20206-A1001 and BLA-EMC-202006-A1003 for EUT test max conducted peak output power value.