

RF Exposure Evaluation Statement

Product Name: TWS wireless earbuds

Model No.: E6

FCC ID: 2AKRC-E6

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 ≤ 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

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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	3.95	± 1	4.95	3.13	0.97	3.0
2441MHz	3.56	± 1	4.56	2.86	0.89	
2480MHz	3.50	± 1	4.50	2.82	0.89	
Operational Mode: BLE (worst case)						
2402	0.21	± 1	1.21	1.32	0.41	3.0
2442	-0.21	± 1	0.79	1.20	0.37	
2480	-0.44	± 1	0.56	1.14	0.36	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						