

FCC RF Exposure

EUT Description: Bluetooth earphone

Model No.: Charisma

FCC ID: **2AU1K-VK100W**

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:

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

2.4G

	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit	SAR Test Exclusion
BLE	-0.36	-1 ± 1	0/1	5	0.31496	3.0	Pass
EDR	3.096	3 ± 1	4/2.51	5	0.79055	3.0	Pass
2.4G WIFI	6.94	6 ± 1	7/5.01	5	1.56903	3.0	Pass
5.2G WIFI	6.94	6 ± 1	7/5.01	5	2.28055	3.0	Pass
5.8G WIFI	7.03	6.1 ± 1	7.1/5.13	5	2.45922	3.0	Pass
Note: PK Output power = conducted power. Conducted power see the test report HK2011233522-1E/2E/3E/4E/5E, antenna gain=1dBi							

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 is 2.45922 which is ≤ 3 , RF Exposure 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(GHz) is the RF channel transmit frequency in GHz

Distance = 5mm