

# FCC RF Exposure

EUT Description: BLUETTOOTH PARTY SPEAKER

Model No.: RS-912

FCC ID: 2AQ4S-RS912

## 1. Limits

According to KDB 447498 D04 General RF Exposure Guidance v01 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:

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

|      | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up power dBm/mW | Min test separation distance mm | Result | Limit | SAR Test Exclusion |
|------|--------------------|---------------------|--------------------------|---------------------------------|--------|-------|--------------------|
| 2478 | 6.16               | 6±1(7)              | 5.012                    | 5                               | 1.578  | 3.0   | Pass               |

Note:

PK Output power = conducted power.

Conducted power see the test report HK2403281477-E, antenna gain = 1.58dBi

Per KDB 447498 D04, when the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 1.578 which is  $< 3.0$ , 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