FCC RF Exposure

EUT Description: Alcohol Detector
Model No.: Mars
FCC ID: 2BESO-MARS

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: [(max power of channel, including tune‑up tolerance, mW)/(min. test separation distance, mm)] •[√ f(GHz)]≤3.0 for 1‑g SAR and ≤ 7.5 for 10‑g extremity SAR,

Where:

Result=P/D* √ 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 dBm/mW	Min test separation distance mm	Result	Limit (mW/cm^2)	SAR Test Exclusion
2402	-14.77	-15±1	-14/0.04	5	0.012	3.0	Pass
Note:							
PK Output power= conducted power.							
Conducted power see the test report **HK2401110224-E**, antenna gain= -0.54dBi							

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 0.012 which is<= 3, RF Exposure testing is not required.

Note: Exclusion Thresholds Results=[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [√ f(GHz)]

f(GHz) is the RF channel transmit frequency in GHz

   Distance=5mm