FCC RF Exposure

EUT Description: Barcode Scanner
Model No.: BR312
FCC ID: **2AH6G-BR212BR312**

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

EIRP(dBm)=99.54(dBuV/m)-95.2= 4.34(dBm)

Frequency (MHz)	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power (dBm/mW)	Min test separation distance mm	Result	Limit	SAR Test Exclusion
2470	4.34	4±1	5/3.162	5	0.994	3.0	Pass
Note:							
PK Output power= conducted power.							
Conducted power see the test report **HK2412238014-E**, antenna gain= 0.56dBi							

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 0.994 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