FCC RF Exposure

EUT Description: Amphibious remote control car
Model No.: BG028
FCC ID: 2BOK2-BG028

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)=100.45(dBuV/m)-95.2= 5.25(dBm)

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
2445	5.25	5±1	6/3.981	5	1.245	3.0	Pass
Note: PK Output power= conducted power. Conducted power see the test report **HK2504021645-E**, antenna gain= 0.17dBi							

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 1.245 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*)] ·[$\sqrt{f_{(GHz)}}$]

$f_{(GHz)}$ is the RF channel transmit frequency in GHz

Distance=5mm