

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

FCC ID: 2A7VD-H608A

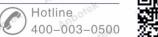
EUT Specification

| EUT nbotek Anbotek A | Govee String Downlights |
|-------------------------|---|
| Frequency band | ⊠WLAN: 2.412GHz ~ 2.462GHz |
| (Operating) | ☐ WLAN: 5.18GHz ~ 5.24GHz / 5.50GHz ~ 5.70GHz |
| otek Anbotek Anbo | □ WLAN: 5.745GHz ~ 5.825GHz |
| Anbore Anbore | ⊠ Others: BLE: 2.402GHz~2.480GHz |
| Device category | ☐ Portable (<20cm separation) |
| Anboten Anb | ⊠ Mobile (>20cm separation) |
| tek obořek Anbor A | ☐ Others |
| Exposure classification | ☐ Occupational/Controlled exposure |
| pote, Aug stek vupotek | ⊠ General Population/Uncontrolled exposure |
| Antenna diversity | ☐ Single antenna |
| sbotek Anbore An | ⊠ Multiple antennas |
| An otek Anbotek Anbo | ☐ Tx diversity |
| Ande Andrek An | ☐ Rx diversity |
| ek Anbore An | ☐Tx/Rx diversity |
| Max. output power | BLE: 2.49dBm (0.0018W) |
| tek abotek Anbo. | WiFi 2.4G: 16.72dBm (0.0470W) |
| Antenna gain (Max) | BLE: 3.77 dBi |
| Anbore. And stek anbore | WiFi 2.4G : 3.98 dBi |
| Evaluation applied | ⊠ MPE Evaluation |
| k shotek Anbote An | ☐SAR Evaluation |

Limits for Maximum Permissible Exposure(MPE)

| Frequency Range(MHz) | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm²) | Average Time |
|-------------------------|---------------------------------|---------------------------------|------------------------|---------------|
| Aupon k | (A) Limits for (| Occupational/Con | trol Exposures | botek Anbotes |
| 300-1500 | tek nbotek | Aupon bu | F/300 | And 6 |
| 1500-100000 | inpo. ok hotek | Anbore An | niek 5 mbotek | |
| Lok shorek (E |) Limits for Gene | ral Population/U | ncontrol Exposur | es Anbott A |
| 300-1500 | Anbores Anb | tek - abotek | F/1500 | 30 |
| 1500-100000 | r operek M | po, k polsk | Anbore And | 30 |







Friis transmission formula: Pd=(Pout*G)\(4*pi*R2)

Where

Pd= Power density in mW/cm²
Pout=output power to antenna in Mw
G= gain of antenna in linear scale
Pi=3.1416

R= distance between observation point and center of the radiator in cm Pd the limit of MPE. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Max Measurement Result

| Operating Mode | Measured Power (dBm) | er tolerance | | Max. Tune up Power (dBm) | Antenna Gain (dBi) | Power density at 20cm (mW/cm²) | Power density Limits (mW/cm²) |
|-------------------|----------------------------|--------------|------|--------------------------------|--------------------------|--------------------------------------|-------------------------------|
| BLE | 2.49 | 2.49 | P±1 | 3.49 | 3.77 | 0.0011 | botek 1 Anbo |
| WiFi 2.4G | 16.72 | 16.72 | ±1'' | 17.72 | 3.98 | 0.0294 | and otell |

The WLAN 2.4G and BLE can transmit simultaneously:

$$\sum_{i} \frac{S_{i}}{S_{Limit,i}}$$

=SBLE/Slimit-BLE + SWiFi 2.4G/Slimit-WiFi 2.4G

=0.0011/1+0.0294/1

=0.0305

< 1.0



