

MAXIMUM PERMISSIBLE EXPOSURE

KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

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)

EUT Specification

| FCC ID | 2A7VD-H607C |
|--------------------------------|--|
| EUTek Anborek Anbo | Govee Floor Lamp 2 |
| Frequency band | ⊠ BT: 2.402GHz ~ 2.480GH |
| (Operating) | ⊠ WLAN: 2.412GHz ~ 2.462GHz |
| Anborek Anbe | ☐ RLAN: 5.180GHz ~ 5.240GHz |
| ek abotek Anbore | ☐ RLAN: 5.260GHz ~ 5.320GHz |
| Antotek Anbotek | ☐ RLAN: 5.500GHz ~ 5.700GHz |
| poten And | ☐ RLAN: 5.745GHz ~ 5.825GHz |
| abotek Anbor Air | ☐ Others: |
| Device category | ☐ Portable (<20cm separation) |
| And tek anbotek A | ⊠ Mobile (>20cm separation) |
| Anbo. ok A. bołek | Others |
| Exposure classification | ☐ Occupational/Controlled exposure |
| otek Anbotek Anbo | ⊠ General Population/Uncontrolled exposure |
| Antenna diversity | ☐ Single antenna |
| Anbore Anbo | ⊠ Multiple antennas |
| Anboren Anbe | ☐ Tx diversity |
| abotek Anbor Al | ☐ Rx diversity |
| An hotek Anboten | ☐ Tx/Rx diversity |
| Max. output power | BLE: -0.57 dBm 0.0009 W |
| stek Anbo, ok Anbotek | WIFI 2.4G: 13.17 dBm 0.0207 W |
| Antenna gain (Max) | BLE: 5.44 dBi |
| notek Anboten Anbo | WiFi 2.4G: 1.54 dBi |
| Evaluation applied | ⊠ MPE Evaluation |
| Anbore | ☐ SAR Evaluation |



Hotline



Limits for Maximum Permissible Exposure(MPE)

| Frequency | Electric Field | Magnetic Field Power Density | | Average Time | |
|-------------|--------------------|------------------------------|-----------------------|--------------|--|
| Range(MHz) | Strength(V/m) | Strength(A/m) | (mW/cm ²) | An anboi | |
| ek Anborer | (A) Limits for | Occupational/Con | trol Exposures | Vun Tek | |
| 300-1500 | Vupo. | F/300 | | An 6 | |
| 1500-100000 | Anbore And | otek nbotek | Anbo 5 | Nek AGO | |
| Anbore And | (B) Limits for Gen | eral Population/Ur | control Exposures | otek Anbotek | |
| 300-1500 | ek -botek | Aupor | F/1500 | 30 | |
| 1500-100000 | Dr. Diek | Aupoter Aupo | Jorek 1,50tek | 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 Measure Power (dBm) | Measured | Tune up tolerance | | Max. Tune | Antenna | Power density | Power density |
|-------------------------------|----------|----------------------|----|-----------|---------|-----------------------|---------------|
| | Power | | | up Power | r Gain | at 20cm | Limits |
| | (dBm) | (dBn | n) | (dBm) | (dBi) | (mW/cm ²) | (mW/cm²) |
| BLE | -0.57 | -0.57 | ±1 | 0.43 | 5.44 | 0.0008 | botel1 Anbr |
| WiFi 2.4G | 13.17 | 13.17 | ±1 | 14.17 | 1.54 | 0.0074 | Pur Polity V |

The Maximum simultaneous transmission for BLE+WiFi 2.4G:

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

=S_{BLE}/S_{limit-BLE}+ S_{WiFi 2.4G}/S_{limit-WiFi 2.4G}

=0.0008/1+0.0074/1

=0.0082

< 1.0

Result: No Standalone SAR test is required.

