Anbotek Product Safety

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-H606A

EUT Specification

| EUT dek onbotek | Govee Glide Hexagon Light Panels Ultra |
|----------------------------|---|
| Frequency band (Operating) | ⊠WLAN: 2.412GHz ~ 2.462GHz |
| otek Anbore Antoniek | 🗆 WLAN: 5.18GHz ~ 5.24GHz / 5.50GHz ~ 5.70GHz |
| otek unbotek Anbo | □ WLAN: 5.745GHz ~ 5.825GHz |
| Anbo ek sbotek Anbore | ⊠ Others: BLE: 2.402GHz~2.480GHz |
| Device category | □ Portable (<20cm separation) |
| Anboten Anbo | ⊠ Mobile (>20cm separation) |
| K sobotek Anbor A | Others |
| Exposure classification | Occupational/Controlled exposure |
| opter Anbergek Anbotek | General Population/Uncontrolled exposure |
| Antenna diversity | ☐ Single antenna |
| botek Anbote An | ⊠ Multiple antennas |
| Ann otek unbotek Anbo | Tx diversity |
| Ambo vek obotek Ar | Rx diversity |
| Anbort Antonek | □ Tx/Rx diversity |
| Max. output power | BLE: -1.10dBm (0.0008W) |
| tek nbotek Anboit | WIFI 2.4G: 14.85dBm (0.0305W) |
| Antenna gain (Max) | BLE: 5.44 dBi |
| Anbote Ano stek anbot | WiFi 2.4G: 4.429 dBi |
| Evaluation applied | MPE Evaluation |
| An botek Anbote An | □ SAR Evaluation |
| 70. | |

Limits for Maximum Permissible Exposure(MPE)

| Frequency Range(MHz) | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density(mW/cm ²) | Average Time |
|-------------------------|---------------------------------|---------------------------------|---------------------------------------|-----------------|
| Pupo. Pr. | (A) Limits for C | Occupational/Cont | trol Exposures | pri note |
| 300-1500 | And tek- | lek bupo. | F/300 | 6 |
| 1500-100000 | Anbo | botek Anbots | 5 patro | ter 6 Ant |
| (B |) Limits for Gene | ral Population/Un | control Exposures | botek |
| 300-1500 | K Ariaoter | And rek- | F/1500 | 30 |
| 1500-100000 | - botek | Anbor - | otek Inboten | 30 |

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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.

| Operating | Measured Power | Tune up tolerance | | Max. Tune up Power | Antenna Gain | Power density at 20cm | Power density Limits |
|------------|-------------------|----------------------|------------------|-----------------------|-----------------|--------------------------|-------------------------|
| Mode (dBm) | (dBm) | (dBn | 100 | (dBm) | (dBi) | (mW/cm ²) | (mW/cm ²) |
| BLE | -1.10 | -1.10 | ±1 ^{pm} | -0.10 | 5.44 | 0.0007 | Ann hotely Ant |
| WiFi 2.4G | 14.85 | 14.85 | ±1 | 15.85 | 4.42 | 0.0212 | Ann |

Max Measurement Result

The BLE and WiFi 2.4G can transmit simultaneously:

S; S_{Limit.i}

 $=S_{BLE}/S_{limit-BLE}+S_{WiFi\ 2.4G}/S_{limit-WiFi\ 2.4G}$ =0.0007/1+0.0212/1=0.0219< 1.0

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