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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