

RF EXPOSURE EVALUATION

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

FCCID	2A7VD-H61F2
EUT Anbotes And	Govee Strip Light 2 Pro
Frequency band (Operating)	⊠ BT: 2.402GHz ~ 2.480GHz
otek Anbore	⊠ WLAN: 2.412GHz ~ 2.462GHz
upotek Anoo	│
Aupotek Aupote Au	☐ RLAN: 5.260GHz ~ 5.320GHz
And tek subotek	☐ RLAN: 5.500GHz ~ 5.700GHz
Anbor	☐ RLAN: 5.745GHz ~ 5.825GHz
sk Auporen Aug	☐ Others:
Device category	☐ Portable (<20cm separation)
Pole Ville Viek Vupor	⊠ Mobile (>20cm separation)
anbotek Anbo	Others
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm2)
Yun Vipolek	☐ General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna diversity	☐ Single antenna
ek Aupoter Aug	☐ Single antenna ☐ Multiple antennas
	☐ Tx diversity
potek Ando Potek Aupo	☐ Rx diversity
Anbotek Anbo	☐ Tx/Rx diversity
Antenna gain (Max)	BLE: 2.45dBi
VIII.	BLE: 2.45dBi WiFi 2.4G: 1.54dBi
Evaluation applied	⊠ MPE Evaluation
Nek Aupole, Vue	☐ SAR Evaluation
101	N 2010 W. Store



Limits for Maximum Permissible Exposure(MPE)

	W1.	1.07	Q V	10 U					
Frequency	Electric Field	Magnetic Field	Power Novembore	Average					
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Time no					
(A) Limits for Occupational/Control Exposures									
300-1500	Polek Aupo	W. Tek	F/300	6					
1500-100000	Vun	polek Anbe	5 otek	Anbore 6					
(B) Limits for General Population/Uncontrol Exposures									
300-1500	Arthole.	VIII.	F/1500	6 botek					
1500-100000	rek - upotek	Aupo	hotek 1 Anbore	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, 1mW/cm2. 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 Measured Power (dBm)	Measured	Tune up	Max. Tune	Antenna	Power density	Power
	Power	tolerance	up Power	Gain	at 20cm	density Limits
	(dBm)	(dBm) 🙌	(dBm)	(dBi)	(mW/ cm2)	(mW/cm2)
LEK BLE AND	2.12	2.12 ±1	3.12	2.45	0.0007	M40010
WiFi 2.4G	15.00	15.00 ±1	16.00	1.54	0.0113	K 1 Anbote

The simultaneous transmission for BLE + WiFi 2.4G

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

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

=0.0007/1+0.0113/1

=0.0120

< 1.0°

Result: PASS.





