

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

FCC ID	2A7VD-H61E6
EUTek Anboten Ar	Govee COB Strip Light Pro
Frequency band (Operation	ng) 🛛 BLE: 2.402GHz ~ 2.480GH
Anbor K All wotek	🖾 WLAN: 2.412GHz ~ 2.462GHz
Anboten Anu tek	RLAN: 5.180GHz ~ 5.240GHz
ek abotek Anbor	RLAN: 5.260GHz ~ 5.320GHz
ak botek Anbot	🗌 RLAN: 5.500GHz ~ 5.700GHz
poter And tek	RLAN: 5.745GHz ~ 5.825GHz
abotek Anbo, A.	Others:
Device category	☐ Portable (<20cm separation)
Ant otek unbotek	⊠ Mobile (>20cm separation)
Anbo Lek potek	Others
Exposure classification	Occupational/Controlled exposure (S = 5mW/cm2)
otek anboter Ano	General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna diversity	Single antenna
Anbo, Ar hotek	Multiple antennas
Anbore, And otek	□ Tx diversity
Anbotek Anbo	Rx diversity
k hotek Anbore	Tx/Rx diversity
Antenna gain (Max)	BLE: 2.45dBi
pter Anb tek ob	Wi-Fi 2.4G: 1.54dBi
Evaluation applied	MPE Evaluation
notek Anboter P	SAR Evaluation

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Anbotek Product Safety

Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field	Magnetic Field	Power	Average Time	
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)		
Anboten	(A) Limits for C	Occupational/Contr	ol Exposures	Her Ano	
300-1500	Anbo. A	hotek - Anbote	F/300	botek 6 An	
1500-100000	K Arbore	Ann stek	5	6	
nborto Am	(B) Limits for Gene	eral Population/Unc	control Exposures	Am	
300-1500	Let - obotek	Anbor	F/1500	And ok	
1500-100000	nbor - Am	k stpoter	And ek 1 abotek	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 Mode	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm2)
Anbore Ant	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm2)	
BLE	1.19	1.19 ±1	2.19	2.45	0.0006	Ant 1,ek
WiFi 2.4G	14.44	14.44 ±1	15.44	1.54	0.0099	And

The Maximum simultaneous transmission for BLE+WiFi 2.4G:

 $=S_{BLE}/S_{limit-2.4}+S_{WLAN}/S_{limit-2.4}$ =0.0006/1+0.0099/1

=0.0105

< 1.0

Result: No Standalone SAR test is required

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