

#### 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	2A2Y8-ALIEN300C
EUT Anboren And	LED RGBWW Panel Light
Anborek Anbore	⊠ BT: 2.402GHz ~ 2.480GHz
Frequency band	☐ WLAN: 2.412GHz ~ 2.462GHz
	RLAN: 5.180GHz ~ 5.240GHz
(Operating)	☐ RLAN: 5.260GHz ~ 5.320GHz
(Operating)	RLAN: 5.500GHz ~ 5.700GHz
porter And Otek Anbotek	☐ RLAN: 5.745GHz ~ 5.825GHz
Anbotek Anbo ak botek	Others:
abotek Anbore An	☐ Portable (<20cm separation)
Device category	⊠ Mobile (>20cm separation)
And thotak An	Others
Exposure classification	☐ Occupational/Controlled exposure
	⊠ General Population/Uncontrolled exposure
stek upotek Anbo	⊠ Single antenna
Aupo, W. Potek Wupoter	☐ Multiple antennas
Antenna diversity	☐ Tx diversity
Anbotek Anbo	Rx diversity
k botek Anbote Am	☐ Tx/Rx diversity
Max. output power	BLE: 2.33 dBm 0.0017W
Antenna gain (Max)	2.32 dBi
Evaluation applied	
	SAR Evaluation





#### Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field	Magnetic Field	Magnetic Field Power Density	
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm <sup>2</sup> )	All otek anboi
ek Anborer	(A) Limits for	Occupational/Con	trol Exposures	Vun Tek
300-1500	Wupo.	F/300		An 6
1500-100000	Anbore Ans	otek nbotek	Anbo 5	Nek Mgole
Anbore Art	(B) Limits for Gen	eral Population/Ur	ncontrol Exposures	otek Anbotek
300-1500	lek -botek	Aupor	F/1500	30
1500-100000	br. Diek	Aupoter Aupo	Jorek 1, botek	30

## Friis transmission formula: Pd=(Pout\*G)\(4\*pi\*R2)

Where

Pd= Power density in mW/cm<sup>2</sup>

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**

Me	Measured	Tune up	Max. Tune	Antenna	Power density	Power density
Operating	Power	tolerance	up Power	Gain	at 20cm	Limits
Mode (dBm)	(dBm)	(dBm)	(dBi)	(mW/cm²)	(mW/cm²)	
BLE	2.33	2.33 ±1	3.33	2.32	0.0007	botel1 Anbi

Result: No Standalone SAR test is required.



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