

## 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**

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FCC ID	2BGG8-LB2165W
EUTer Ander Ander	Smart Cat Litter Box
Anbe tek abotek Anbor	⊠ BT: 2.402GHz ~ 2.480GHz
Anboit Air Lotek Anb	🛛 WLAN: 2.412GHz ~ 2.462GHz
Anboten Anbo	RLAN: 5.180GHz ~ 5.240GHz
Frequency band (Operating)	RLAN: 5.260GHz ~ 5.320GHz
Ar hotek Anboter	🗌 RLAN: 5.500GHz ~ 5.700GHz
poter Anu stek anbotek	RLAN: 5.745GHz ~ 5.825GHz
anbotek Anbo. A. botel	Others:
botek Anbote Ann	Portable (<20cm separation)
Device category	⊠ Mobile (>20cm separation)
Anbo Jak sbotek A	Others
Exposure classification	Occupational/Controlled exposure
Exposure classification	General Population/Uncontrolled exposure
tek abotek Anbo	Single antenna
Anbor & hotek Anboter	Multiple antennas
Antenna diversity	Tx diversity
Anbotek Anbor Ar	Rx diversity
6 hotek Anbote Ar	Tx/Rx diversity
Antenna gain (Max)	2.54 dBi
Evaluation applied	MPE Evaluation
Evaluation applied	SAR Evaluation
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## 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 <sup>2</sup> )	And stek				
del la	h nbotek P	(A) Limits for	r Occupational/Contro	ol Exposures	Anbo				
0	300-1500	Anboro - Ano	lek Muoten	F/300	6				
vu <sub>oc</sub>	1500-100000	Anboten Anbo	ek - botek	Anboin 5	et 6 oter				
(B) Limits for General Population/Uncontrol Exposures									
	300-1500	-k - worek	Anboten Anbo	F/1500	30				
2	1500-100000	Ann Ann	hobotek Anbo	ak 1 notek	30				

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# 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.

## **Measurement Result**

Operating	Maximum	Tune up	Max. Tune	Antenna	Power density	Power
Operating Mode	output power	tolerance	up Power	Gain	at 20cm	density Limits
Mode	(dBm)	(dBm)	(dBm)	(dBi)	(mW/cm <sup>2</sup> )	(mW/cm <sup>2</sup> )
wotek BLE Anbote	1.40	1.40 ±1	2.40	2.54	0.0006	100 000
WiFi 2.4G	o <sup>tel</sup> 15.65	15.65 ±1	16.65	2.54	0.0165	ten 1 Anbo

Note: BT&WiFi cannot support simultaneous transmission.

Result: No Standalone SAR test is required.

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