

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	2AB9B-AI-10A
EUT-k Anbotek Anbe	OPTICAL FIBER FUSION SPLICER
Frequency band (Operating)	⊠ BT: 2.402GHz ~ 2.480GH
Anbor Anbo	☐ WLAN: 2.412GHz ~ 2.462GHz
Anboren Anb	☐ RLAN: 5.180GHz ~ 5.240GHz
ek upotek Anbo, k	☐ RLAN: 5.260GHz ~ 5.320GHz
ak botek Anbote	☐ RLAN: 5.500GHz ~ 5.700GHz
porter And otek Anbotek	☐ RLAN: 5.745GHz ~ 5.825GHz
Anbotek Anbo. A. botek	☐ Others:
Device category	☐ Portable (<20cm separation)
All Anboten Anbo	⊠ Mobile (>20cm separation)
And aborek An	Others
Exposure classification	☐ Occupational/Controlled exposure
otek Anbore And	⊠ General Population/Uncontrolled exposure
Antenna diversity	⊠ Single antenna
Aupo, W. Potek Wupoter	☐ Multiple antennas
Anbore And Otek Anbor	☐ Tx diversity
Anbotek Anbo	Rx diversity
4 botek Anbore Am	☐ Tx/Rx diversity
Antenna gain (Max)	-3.68dBi
Evaluation applied	⊠ MPE Evaluation
abotek Anbor Anti-	☐ SAR Evaluation

Limits for Maximum Permissible Exposure(MPE)

V.E	0.00	VK POOL B	A V TI LOTON	
Electric Field	Magnetic Field Power		Average Time	
Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Yun rek vipo,	
(A) Limits fo	r Occupational/Contr	ol Exposures	Anbo	
Anbore - Ant	ek naotek	F/300	Ant 6	
Anborek Anbo	ek - botek	Anbor 5	6 010	
(B) Limits for Ge	neral Population/Und	control Exposures	tek abotek	
r - rotek	Aupoter - Aug	F/1500	30	
Pup.	"potek Whoo,	1 1 1 notek	Anbore 30 And	
	(A) Limits fo	Strength(V/m) Strength(A/m) (A) Limits for Occupational/Contr	Strength(V/m) Strength(A/m) Density(mW/cm²) (A) Limits for Occupational/Control Exposures F/300 5 (B) Limits for General Population/Uncontrol Exposures	







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.

Measurement Result

Operating Mode	Maximum	Max. Tune up	Antenna Gain	Power density	Power density
	output power	Power		at 20cm	Limits
	(dBm)	(dBm)	(dBi)	(mW/cm ²)	(mW/cm ²)
hotek BLE Anbo	2.85	3.00	-3.68	0.002	Anbora .

Result: No Standalone SAR test is required.



Hotline