

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	2BKBF-LITE
EUT Anboter And	USB Android Ai box
ek abotek Anbo	⊠ BT: 2.402GHz ~ 2.480GHz
All Otek Ambotes	⊠ WLAN: 2.412GHz ~ 2.462GHz
hotek Anbo	☐ RLAN: 5.180GHz ~ 5.240GHz
Frequency band (Operating)	⊠ RLAN: 5.260GHz ~ 5.320GHz
Aug Tek Vipolek	☐ RLAN: 5.500GHz ~ 5.700GHz
Aupos K Wolek	☐ RLAN: 5.745GHz ~ 5.825GHz
Aupoter Aug	Others:
rek upotek Aupos	☐ Portable (<20cm separation)
Device category	⊠ Mobile (>20cm separation)
potek Anbo	Others And Others
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm2)
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm2) ☐ General Population/Uncontrolled exposure (S=1mW/cm2)
stek anbole	No. View
Aupotek Aupotek	☐ General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna diversity	☐ Single antenna
Antenna diversity	 ☑ General Population/Uncontrolled exposure (S=1mW/cm2) ☐ Single antenna ☑ Multiple antennas
Aupotek Aupotek	 ☑ General Population/Uncontrolled exposure (S=1mW/cm2) ☐ Single antenna ☑ Multiple antennas ☐ Tx diversity
Antenna diversity	☐ General Population/Uncontrolled exposure (S=1mW/cm2) ☐ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity
Antenna diversity	 ☑ General Population/Uncontrolled exposure (S=1mW/cm2) ☐ Single antenna ☑ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Antenna diversity	☐ General Population/Uncontrolled exposure (S=1mW/cm2) ☐ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity ☐ BT: 3.53dBi
Antenna diversity	☐ General Population/Uncontrolled exposure (S=1mW/cm2) ☐ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity BT: 3.53dBi WiFi 2.4G: 3.53dBi





Limits for Maximum Permissible Exposure(MPE)

	W.L.	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 noon					
(A) Limits for Occupational/Control Exposures									
300-1500	Potek - Aupo	W. Tek	F/300	6					
1500-100000	Vun	polek Anbo	5 otek	Anbor 6					
(B) Limits for General Population/Uncontrol Exposures									
300-1500	ALPOPO.	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 Mode	Measured Power	Tune tolerar	•	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm2)
otek Aupole	(dBm)	(dBm	1) _{nb}	(dBm)	(dBi)	(mW/ cm2)	Anbyoniz
BDR&EDR	9.88	9.88	±1	10.88	3.53	0.0055	Alpoiek
BLE	9.85	9.85	±1	10.85	3.53	0.0055	ek 1 nbotel
WiFi 2.4G	21.79	21.79	±1	22.79	3.53	0.0853	1
WiFi 5.3G	22.65	22.65	o¥1	23.65	4.24	0.1224	1 Am

The BT and WiFi can't simultaneous transmission.

Result: PASS.

