

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	2ANPB-RCC30REGO
EUT-k Anbotek Anbe	MPPT Solar Charge Controller
Frequency band (Operating)	⊠ BLE: 2.402GHz ~ 2.480GH
Anbore K All Totak Anbo	☐ WLAN: 2.412GHz ~ 2.462GHz
Anboten Anb	☐ RLAN: 5.180GHz ~ 5.240GHz
ek nbotek Anbot A	☐ RLAN: 5.260GHz ~ 5.320GHz
ck 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)
And Anbotek 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, botek Wupote	☐ Multiple antennas
Anbore And Otek Anbor	☐ Tx diversity
Anbotek Anbo	Rx diversity
4 botek Anbore An	☐ Tx/Rx diversity
Antenna gain (Max)	5.19dBi
Evaluation applied	⊠ MPE Evaluation
sbotek Anbor All Motek	☐ SAR Evaluation

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)	And sek abo	
ek shotek f	(A) Limits fo	r Occupational/Contro	ol Exposures	Aupo.	
300-1500	Anbore - Ant	ek naorek	F/300	And 6	
1500-100000	Anbotek Anbo	.ek - botek	Anbor 5	6 oten	
Anboten Anbo	(B) Limits for Ge	neral Population/Unc	ontrol Exposures	tek abotek	
300-1500	r - rotek	Anbores Anb	F/1500	30	
1500-100000	Pur Viek	Aupotek Aupo	ok 1, notek	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. 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 output power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm²)	Power density Limits (mW/cm²)
otek BLE nbotek	0.82	0.82 ±1	1.82	5.19	0.0010	1 Anbox

Result: No Standalone SAR test is required.



Hotline

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