Anbotek Product Safety

RF EXPOSURE EVALUATION

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)

FCC ID: 2AOKB-A1754

EUT Specification

EUT nbol ek sootek A	Anker SOLIX C800 PLUS Portable Power Station
Frequency band	⊠ WLAN: 2.412GHz ~ 2.462GHz
(Operating)	□ WLAN: 5.18GHz ~ 5.24GHz / 5.50GHz ~ 5.70GHz
stek onbotek Anbo	□ WLAN: 5.745GHz ~ 5.825GHz
Anbo tek abotek Anbore	⊠ Others: 2.402GHz~2.480GHz
Device category	□ Portable (<20cm separation)
k Anboten Anbo	⊠Mobile (>20cm separation)
tek pootek Anboi Ai	Others
Exposure classification	Occupational/Controlled exposure
nbotek Anto otek nnbotek	General Population/Uncontrolled exposure
Antenna diversity	⊠Single antenna
anbotek Anboit All	☐ Multiple antennas
Ant hotek Anboten Anbo	□ Tx diversity
And tek nbotek An	□ Rx diversity
tek Anboi Ai hotek	□ Tx/Rx diversity
Max. output power	WIFI 2.4G: 21.38dBm (0.1374W);
tek sphotek Anbu	BLE: 4.54dBm (0.0028W)
Antenna gain (Max)	BLE: 3.65dBi
Anbore Ann niek anbore	WiFi 2.4G: 3.65dBi
Evaluation applied	MPE Evaluation
ek nbotek Anbor Air	□ SAR Evaluation

Limits for Maximum Permissible Exposure(MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Average Time
Anbor A.	(A) Limits for (Occupational/Con	trol Exposures	botek Anbore
300-1500	stek upotek	Anbo	F/300	Anna atel6
1500-100000	inbo	Anbort Am	atek 5 potek	And 6k
wet whotek (B) Limits for Gene	ral Population/Ur	ncontrol Exposur	es Anboin P
300-1500	Anboten Anb	vek - abotek	F/1500	30
1500-100000	t abatek A	notek	Anboren Anb	30

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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.

Operating	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
Mode (dBm)	(dBm)	(dBm)	(dBi)	(mW/cm²)	(mW/cm²)	
WiFi 2.4G	21.38	21.38 ±1	22.38	3.65	0.0797	Ant Lotely Ant
BLE	4.54	4.54 ±1	5.54	3.65	0.0017	Anna lek

Max Measurement Result

The WLAN 2.4G and BLE can transmit simultaneously:

S; Limit.i

=SWIFI2.4/Slimit-2.4+ SBLE/Slimit-BLE

=0.0797/1+0.0017/1

=0.0814 < 1.0

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