

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	2BC3W-DS115XP						
EUT Anboren Anbe	Portable Karaoke Speaker						
Frequency band	⊠BT BDR+EDR/ BLE: 2.402GHz ~ 2.480GHz						
(Operating)	☐ WLAN: 2.412GHz ~ 2.462GHz						
Anboren Anu	☐ RLAN: 5.180GHz ~ 5.240GHz						
ak anbotek Anbo. Ak	☐ RLAN: 5.260GHz ~ 5.320GHz						
ok hotek Anbote	☐ RLAN: 5.500GHz ~ 5.700GHz						
bote. And stek Anbotek	☐ RLAN: 5.745GHz ~ 5.825GHz						
anbotek Anbo. ak botek	☐ Others:						
Device category	☐ Portable (<20cm separation)						
Ansotek Anbotek Anbo	⊠ Mobile (>20cm separation)						
And shorek An	Others						
Exposure classification	☐ Occupational/Controlled exposure						
otek Anboten And	☐ General Population/Uncontrolled exposure						
Antenna diversity	⊠ Single antenna						
Anbores Anbores	☐ Multiple antennas						
Anbore Ant stek Anbor	☐ Tx diversity						
Anbotek Anbo	Rx diversity						
k botek Anbore An	☐ Tx/Rx diversity						
Max. output power	BT BDR+EDR: 1.60dBm (0.0014W)						
orek Ando	BT BLE: 0.67dBm (0.0012W)						
Antenna gain (Max)	-0.58dBi						
Evaluation applied							
And Lek abotek Anbor	☐ SAR Evaluation						





Limits for Maximum Permissible Exposure(MPE)

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Frequency	Electric Field	Magnetic Field	Power Density	Average Time
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm ²)	Anboi
ek Anborer	(A) Limits for	Occupational/Cont	trol Exposures	And
300-1500	Vupo.	ek Ai-pore	F/300	Anto 6
1500-100000	Anbore Ans	otek obotek	Anbo 5	6°01
Anbore An	(B) Limits for Gen	eral Population/Un	control Exposures	otek Anbotek
300-1500	tek abotek	Aupore - Au	F/1500	30
1500-100000	N Pr. Potek	Anboter Anbo	tek 1,botek	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.

Max Measurement Result

Operating Mode	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
Anbotek Ant	(dBm)	(dBm)	(dBm)	(dBi)	(mW/cm²)	(mW/cm²)
BT BDR+EDR	1.60	1.60 ±1	2.60	-0.58	0.0003	II.po
BT BLE	0.67	0.67 ±1	1.67	-0.58	0.0003	otek 1 Anbor

Result: No Standalone SAR test is required.



Hotline

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