

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)

FCC ID: 2ANPB-RBC40D1U

EUT Specification

hore All	Nuber of North All der
EUT Anboten Anbo	BT-2 Bluetooth Module
Frequency band	□ WLAN: 2.412GHz ~ 2.462GHz
(Operating)	UWLAN: 5.18GHz ~ 5.24GHz / 5.50GHz ~ 5.70GHz
Anboten Anbo	UWLAN: 5.745GHz ~ 5.825GHz
ek spotek Anbor A	⊠ Others: BLE: 2.402GHz~2.480GHz
Device category	□ Portable (<20cm separation)
poter And stek unbotek	⊠Mobile (>20cm separation)
anbotek Anbo. A. hotek	□ Others
Exposure classification	Occupational/Controlled exposure
Anno otek unbotek Anbo	General Population/Uncontrolled exposure
Antenna diversity	⊠ Single antenna
K Anboi An An	🖸 Multiple antennas
otek Anboten Anb	□ Tx diversity
tek nbotek Anbo	□ Rx diversity
Anbo, A, hotek Anbore.	□ Tx/Rx diversity
Max. output power	1.93dBm (0.0016W)
Antenna gain (Max)	2.1 dBi model And ack model And ack model
Evaluation applied	⊠ MPE Evaluation
An otek unbotek	□ SAR Evaluation

Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field	Magnetic Field	Power Density	Average Time	
- WO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Average Time	
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm ²)	aboter And	
Anbo, A.	(A) Limits for (Occupational/Cont	trol Exposures	hotek Anbore.	
300-1500	otek - unbotek	Anbo	F/300	6 m	
1500-100000	indu	Anboit	otek 5 photen	And 6k	
let abotek	(B) Limits for Gene	eral Population/Un	control Exposures	Anbor	
300-1500	Anboten Anb	tek - abotek	F/1500	30	
1500-100000	c abetek Ar	bor protek	Anboten Anb	30 pole	

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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.

Max Measurement Result

Operating Mode —	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
	(dBm)	(dBm)	(dBm)	(dBi)	(mW/cm²)	(mW/cm²)
BLE	× 1.93	1.93 ±1	2.93	2.1 📈	0.0006	hotek 1 Anbotek

Result: No Standalone SAR test is required.

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