

# 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**

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FCC ID	2AQY4-33A
EUTek unboten Ande	Smart Lock
Frequency band (Operating)	🗌 WLAN: 2.412GHz ~ 2.462GHz
Anboin Air hotek Anbr	UWLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz
Anboten Ano	🗌 WLAN: 5.745GHz ~ 5825GHz
tek abotek Anbor A	Others: BLE: 2402-2480MHz
Device category	Portable (<20cm separation)
poter Ant stek anbotek	Mobile (>20cm separation)
anbotek Anbo ok botek	□ Others
Exposure classification	Occupational/Controlled exposure
Ant otek Anbotek Anbo	General Population/Uncontrolled exposure
Antenna diversity	Single antenna
ek Anboir Au wotek	Multiple antennas
Lotek Anboten Anbo	Tx diversity
tek abotek Anbor	Rx diversity
Anborn An hotek Anboter	Tx/Rx diversity
Antenna gain (Max)	4.36 dBi
Evaluation applied	MPE Evaluation
ak abotek Anbore An	SAR Evaluation

## Limits for Maximum Permissible Exposure(MPE)

Electric Field Strength(V/m)	Magnetic Field	Power	Average Time	
Strength(V/m)	Other with (Alies)	D/1 -		
easing an (v/m)	Strength(A/m)	Density(mW/cm <sup>2</sup> )	oten Anb. tek	
(A) Limits for	· Occupational/Contro	I Exposures	abotek Anbo	
K Anbore	Ante stek-	F/300	botek 6 Anbore	
otek - unbotek	Anbo	otek 5.bot	Ante otel Anto	
(B) Limits for Ger	neral Population/Unc	ontrol Exposures	Anos	
Anbor Pri	lek Arteoter	F/1500	30	
Anboten And	tek - obotek	Anbor 1 An	30	
	k Anbotek	K Anbotek Anbotek Anbotek Anbote	5 (B) Limits for General Population/Uncontrol Exposures	

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# Friis transmission formula: Pd=(Pout\*G)\(4\*pi\*R2)

### Where

Pd= Power density in mW/cm<sup>2</sup> 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/cm <sup>2</sup> )	Power density Limits (mW/cm <sup>2</sup> )
BLE notek	0.86	0.86 ±1	1.86	4.36	0.0008	Anbo.

Result: No Standalone SAR test is required.

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