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## **RF EXPOSURE EVALUATION**

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**

2BBP3-BR1-BR3
BR1, botek Anbore An hotek Anbore A
BT: 2.402GHz ~ 2.480GHz
UWLAN: 2.412GHz ~ 2.462GHz
🗌 RLAN: 5.180GHz ~ 5.240GHz
RLAN: 5.260GHz ~ 5.320GHz
🗆 RLAN: 5.500GHz ~ 5.700GHz
🗌 RLAN: 5.745GHz ~ 5.825GHz
Others: 903.5-926.9MHz
□ Portable (<20cm separation)
Mobile (>20cm separation)
Others Mark And
□ Occupational/Controlled exposure (S = 5mW/cm2)
General Population/Uncontrolled exposure (S=1mW/cm2)
Single antenna
☐ Multiple antennas
☐ Multiple antennas ☐ Tx diversity
Rx diversity
Tx/Rx diversity
2dBiek And And tek photek And
MPE Evaluation
SAR Evaluation

## Shenzhen Anbotek Compliance Laboratory Limited

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#### Limits for Maximum Permissible Exposure(MPE)

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Frequency	Electric Field	Magnetic Field	Power noter	Average
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm <sup>2</sup> )	Time ho
And rek	(A) Limits for (	Occupational/Contro	ol Exposures	otek An
300-1500	botek - Anbo	Am tek	F/300	6
1500-100000	Ann	abotek - Anbo	5 otek	Anbor 6
K abotek	(B) Limits for Gene	eral Population/Unc	ontrol Exposures	Anboten
300-1500	Arthore.	And	F/1500	6 botek
1500-100000	tek - nbotek	Anbo	botek 1 Anboro	30
N NO	1. k.	No.	VIII	10

## 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

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R= distance between observation point and center of the radiator in cm Pd the limit of MPE, 1mW/cm2. 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.

#### Power Max. Tune Measured Antenna Tune up Power density at Operating up Power Power tolerance Gain density Limits 20cm Mode (mW/cm2) (mW/cm2)(dBm) (dBm) (dBm) (dBi) 17.185 0.0208 SRD 17.185 ±1 18.185 2.0 0.6024

## Max Measurement Result

Result: No Standalone SAR test is required.

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