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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

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Email:service@anbotek.com





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Anbotek Product Safety

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 ²)	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/cm²

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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