

Anbote

Anbotel

Anbotek

Anbotek

,nbotek

Anbotek

Anbo

## **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**

tek and	0,	A. Rek moter And k woter An
FCC ID	wotek	2BKVHEZ-TAGCHECKER
EUT Anboter	And	4 Ports UHF RFID Tag Quality Measurement Instrument
Frequency band (C	Operating)	BT: 2.402GHz ~ 2.480GHz
Anotek	Anbote	UWLAN: 2.412GHz ~ 2.462GHz
botek Anbo	K at	🖸 RLAN: 5.180GHz ~ 5.240GHz
Anbotek Anbote	bu.	RLAN: 5.260GHz ~ 5.320GHz
And	potek	🗆 RLAN: 5.500GHz ~ 5.700GHz
Anbor	Lotek	RLAN: 5.745GHz ~ 5.825GHz
Anboten	Ano	⊠ Others: RFID: 902~928MHz
Device category	Aupor	□ Portable (<20cm separation)
to An	Anbot	Mobile (>20cm separation)
nbotek Anbo	ek r	Others Manual And And And And And
Exposure classification		□ Occupational/Controlled exposure (S = 5mW/cm2)
And	100tek	General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna diversity	hotek	Single antenna
Anboten	Antotek	☐ Multiple antennas
lek abotek	Aupor	Tx diversity
ore An	Anbo	Rx diversity
nbotek Anbo	ak.	Tx/Rx diversity
Antenna gain (Max	.) P	3dBiek Anbolen Anbolek Ant
Evaluation applied	nboten	MPE Evaluation
Anbo	botek	□ SAR Evaluation
olo.	VIII	North

### 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





Anbotel

Anbote

**NDOTEK** Product Safety

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

	D.I.	10.5	9 V.	~ U~					
Frequency	Electric Field	Magnetic Field	Power noter	Average					
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm <sup>2</sup> )	Time					
(A) Limits for Occupational/Control Exposures									
300-1500	botek - Anbo	Am	F/300	6					
1500-100000	Ann	hotek - Anbo	5 otek	Anbor 6					
(B) Limits for General Population/Uncontrol Exposures									
300-1500	Anthole	Am	F/1500	6 botek					
1500-100000	rek - abotek	Anbo	botek 1 Anboto	30					
V. NO	be be	Le.	VUN	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

nbotek

Anbotek

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.

Operating Mode	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
de Her	؇ (dBm) 📈	(dBm)	(dBm)	(dBi)	(mW/ cm2 )	(mW/cm2 )
NOT RFID	26.776	26.776 ±1	27.776	3 potek	0.2380	0.6018

### Max Measurement Result

Note: The 4 antennas cannot transmit at the same time. For example, when using antenna 1, only antenna 1 can transmit. During the test, pre-scan all antennas, only the worst case(antenna 4) is recorded in the report.

Result: No Standalone SAR test is required.

#### 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



