

## 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: 2BDPU-VIVIDUNIT

## **EUT Specification**

EUT Anborek Anbo	Vivid Unit						
Frequency band	⊠ WLAN: 2.412GHz ~ 2.462GHz						
(Operating)	UWLAN: 5.18GHz ~ 5.24GHz / 5.50GHz ~ 5.70GHz						
Anboten Anbo	UWLAN: 5.745GHz ~ 5.825GHz						
alk abotek Anboi Al	⊠ Others: 2.402GHz~2.480GHz						
Device category	□ Portable (<20cm separation)						
hpoter And tek hpotek	⊠ Mobile (>20cm separation)						
anbotek Anbo. A. hotek	□ Others						
Exposure classification	Occupational/Controlled exposure						
Ann otek Anbotek Anbo	General Population/Uncontrolled exposure						
Antenna diversity	⊠ Single antenna						
ex Anbort An hotek	🖸 Multiple antennas						
Lotek Anboten Anbo	Tx diversity						
tek nbotek Anbor	□ Rx diversity						
anbor Ar botek Anborer	□ Tx/Rx diversity						
Max. output power	WIFI 2.4G: 14.87dBm (0.0307W);						
anbotek Anbor At	BLE: 2.77dBm (0.0019W)						
Antenna gain (Max)	0.5 dBi						
Evaluation applied	MPE Evaluation						
opten And rek potek	□ SAR Evaluation						

### Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field	Magnetic Field	Power Density	Average Time	
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm <sup>2</sup> )	hotek Anbote	
Anbore. An	(A) Limits for (	Occupational/Cont	rol Exposures	Ant stek anbo	
300-1500	hnbo ok - botek	Anborn	F/300	6 ·	
1500-100000	Anbort - An	ek hiteoter	inbo ok 5 obotel	6	
port An wotek	(B) Limits for Gene	eral Population/Un	control Exposures	rek Anboten	
300-1500	k aberek Ar	bor ht hotek	F/1500	30	
1500-100000	-K - orek	Anboren Anb	4 abtrek A	30	

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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.

Operating Mode	Measured Power	Tune up tolerance (dBm)		Max. Tune up Power	Antenna Gain (dBi)	Power density at 20cm (mW/cm <sup>2</sup> )	Power density Limits (mW/cm²)
	(dBm)			(dBm)			
Anbo BLE	2.77	2.77	±1 <sup>An</sup>	3.77	0.5	0.0005	Ant hotely Ant
WLAN	14.87	14.87	±1	15.87	0.5	0.0086	And lek

### **Max Measurement Result**

Note: BLE&WLAN cannot support simultaneous transmission.

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