

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

FCC ID	2BLVV-BW4
EUT Anborek Anb	Battery camera
Frequency band (Operating)	⊠ BT: 2.402GHz ~ 2.480GHz
otek Anbotek Anbote	
upo K	⊠ WLAN: 2.412GHz ~ 2.462GHz
rek "Upor	⊠ RI ΔN: 5 180CHz ~ 5 240CHz
V Un	
Aupotek Vupotek	T 1 1 1 1 1 1 1 1 1
Anborek And	⋉ RLAN: 5.500GHz ~ 5.700GHz⋉ RLAN: 5.745GHz ~ 5.825GHz
Y Aupotek Aupotek	☐ Others:
Device category	☐ Portable (<20cm separation)
Anbotek Anbo	Mahila (200 and administration)
Work Aupole Au	Others
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm2)
Aupo, K. Polek	⊠ General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna diversity	⊠ Single antenna ☐ Multiple antennas
botek Anbotek Anbot	V - 100 N. 100 N.
100, K. 100,	Tre Bilitansite 18"
Aupotek Aupote, Aur	
Polek Aupole V	☐ Tx/Rx diversity
Antenna gain (Max)	Wi-Fi 2.4G/BT/BLE: 4.5dBi
Auporek Aupolek	WiFi 5.2G: 5.82dBi
ek Aupotek Aupote	WiFi 5 3G: 5 82dBi
ek abotek Anbote	WiFi 5.3G: 5.82dBi WiFi 5.6G: 5.58dBi
ipor Air	WiFi 5.8G: 4.47dBi
Evaluation applied	☑ MPE Evaluation □ SAR Evaluation
Polek Vipor	☐ SAR Evaluation
VI.	" No. I.





Limits for Maximum Permissible Exposure(MPE)

	mann Manniesisis		D V	200	
Frequency	Electric Field	Magnetic Field	Power Anbore	Average Time	
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)		
Vun	(A) Limits for (Occupational/Contr	ol Exposures	otek An	
300-1500	Potek Aupo,	All	F/300	6	
1500-100000	Vun.	hotek - Anbo	5 otek	Anbore 6	
k upotek	(B) Limits for Gene	eral Population/Unc	ontrol Exposures	Vupolek	
300-1500	Arthore.	Vun.	F/1500	6 botek	
1500-100000	ek - abotek	Anbo	botek 1 Anbote	30	

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

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.



Max Measurement Result

	Lo D	1,000		10.10	. 20	V.	~0°
Operating Mode	Measured Power	Tune u toleran		Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm2)
Aupo	(dBm)	(dBm)	(dBm)	(dBi)	(mW/ cm2)	(IIIVV/CITIZ)
BDR&EDR	5.02	5.02	±1016	6.02	4.5	0.0022	Anbo 1
botek BLE Anbotes	1.2 And	1.2	±1	2.20	4.5	0.0009	Antopie
WiFi 2.4G	13.52	13.52	±1	14.52	4.5	0.0159	Inpole
WiFi 5.2G	13.71	13.71	±1	14.71	5.82	0.0225	lek 1 Anbote
WiFi 5.3G	13.18	13.18	±1	14.18	5.82	0.0199	, 1
WiFi 5.6G	13.32	13.32	211	14.32	5.58	0.0195	nbo 1
WiFi 5.8G1	12.26	12.26	±10	13.26	4.47	0.0118	Anbore1

The Maximum simultaneous transmission for BDR&EDR+WiFi 5.2G:

$$\sum_{i} \frac{S_{i}}{S_{Limit,i}}$$

 $= S_{BDR\&EDR}/S_{limit\text{-}BDR\&EDR} + S_{WiFi\ 5.2G}/S_{limit\text{-}WiFi\ 5.2G}$

=0.0022/1+0.0225/1

=0.0247

<1.0

Anbotek

Result: No Standalone SAR test is required.

