

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)

EUT Specification

FCC ID	2AJFX-N5
EUT Anboten Anbo	Dash Cam
Frequency band	⊠ BT: 2.402GHz ~ 2.480GH
(Operating)	☐ WLAN: 2.412GHz ~ 2.462GHz
	⊠ RLAN: 5.180GHz ~ 5.240GHz
	⊠ RLAN: 5.260GHz ~ 5.320GHz
	☐ RLAN: 5.500GHz ~ 5.700GHz
	☐ RLAN: 5.745GHz ~ 5.825GHz
anbotek Anbo. ak hotel	☐ Others:
Device category	☐ Portable (<20cm separation)
	⊠ Mobile (>20cm separation)
Anbo ak abotek A	□ Others
Exposure classification	☐ Occupational/Controlled exposure
otek Anbotek Anbe	⊠ General Population/Uncontrolled exposure
Antenna diversity	⊠ Single antenna
	☐ Multiple antennas
	☐ Tx diversity
	☐ Rx diversity
Anbore Ar	☐ Tx/Rx diversity
Max. output power	16.14 dBm (0.0411W)
Antenna gain (Max)	BLE: -0.07dBi
	WiFi 5.2G: 2.43dBi
notek Anbotek Anbo	WiFi 5.3G: 3.49dBi
Evaluation applied	⊠ MPE Evaluation
Anborr An	☐ SAR Evaluation



Hotline



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 ²)	An Lotek Anbor
k Aupoles	(A) Limits for	Occupational/Con	trol Exposures	And tek
300-1500	Vupo, - W.	lek Althore.	F/300	Anb 6
1500-100000	Anbore And	tek -nbotek	Anbo 5	6° 6°
Anbore And	(B) Limits for Gen	eral Population/Ur	control Exposures	otek anbotek
300-1500	ek -botek	Aupore - Are	F/1500	30 000
1500-100000	Pin Pin	Anborer Anbo	lok 1,000	Ambour 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. 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.

Measurement Result

Operating	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
Mode (dBm)	(dBm)	(dBm)	(dBi)	(mW/cm²)	(mW/cm²)	
WiFi 5.2G	15.84	15.84 ±1	16.84	2.43	0.0168	tek 1 nbotek
WiFi 5.3G	16.14	16.14 ±1	17.14	3.49	0.0230	lek 1 above
nbote BLE AN	0.93	0.93 ±1	1.93	-0.77	0.0003	nbo, ok 1 pr

Note: BT&WiFi cannot support simultaneous transmission.

Result: No Standalone SAR test is required.

