Anbotek Product Safety

RF EXPOSURE EVALUATION

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: 2A7VD-H6099

EUT Specification

EUT ntek Anboret A	Govee TV Backlight 3 Lite/Govee Smart TV Backlight 3S
Frequency band	WLAN: 2.412GHz ~ 2.462GHz
(Operating)	🗌 WLAN: 5.18GHz ~ 5.24GHz / 5.50GHz ~ 5.70GHz
nt otek unbotek Anbo	🗌 WLAN: 5.745GHz ~ 5.825GHz
Anbo tek spotek Anbore	⊠ Others: BLE: 2.402GHz~2.480GHz
Device category	□ Portable (<20cm separation)
Anboten Anu tek	⊠ Mobile (>20cm separation)
tek abotek Anbor Ar	Others
Exposure classification	Occupational/Controlled exposure
bote. And stek anbotek	General Population/Uncontrolled exposure
Antenna diversity	⊠ Single antenna
abotek Anbote Ann	☐ Multiple antennas
An wotek Anboten Anbo	□ Tx diversity
And tek nbotek An	Rx diversity
ek Anboi Ali kotek	□ Tx/Rx diversity
Max. output power	-2.59dBm (0.0006W)
Antenna gain (Max)	3.18dBi
Evaluation applied	⊠ MPE Evaluation
Anbore Ant stek unbore	□ SAR Evaluation

Limits for Maximum Permissible Exposure(MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Average Time
hotek Anboten	(A) Limits for C	Occupational/Con	trol Exposures	Aup. tek
300-1500	ak Aupon p	hotek Anbote	F/300	tooten 6Anbo
1500-100000	otek poto	And stek-	A-15	hotek 6 Anbon
Anboit (E	B) Limits for Gene	ral Population/Ur	ncontrol Exposur	es net nt
300-1500	knot - abotek	Anbor An	F/1500	30
1500-100000	Anbor - An	ek Naores	And the totel	30

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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.

Max Measurement Result

Operating	Measured Power	Tune up tolerance (dBm)		Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm ²)
Mode –	(dBm)			(dBm)	(dBi)	(mW/cm²)	
BLE	-2.59	-2.59	±1	-1.59	3.18	0.0003	botek 1 Anb

Result: No Standalone SAR test is required.

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