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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

vek abo	at the All ter And
FCCID	2BFF7SYD2400
EUT Anboter And	Portable Power Station
Frequency band (Operating)	BT: 2.402GHz ~ 2.480GHz
k kotek Anbote	🖾 WLAN: 2.412GHz ~ 2.462GHz
hoten And tek an	RLAN: 5.180GHz ~ 5.240GHz
botek Anbore An	RLAN: 5.260GHz ~ 5.320GHz
Ant stek Anbotek	RLAN: 5.500GHz ~ 5.700GHz
Anbo k bolek	🖸 RLAN: 5.745GHz ~ 5.825GHz
Anboten And tok	Others:
Device category	Portable (<20cm separation)
At Anbotek Anbote	⊠ Mobile (>20cm separation)
nboten And	oter Others
Exposure classification	Occupational/Controlled exposure (S = 5mW/cm2)
All-	General Population/Uncontrolled exposure
Anbo. K hotek	(S=1mW/cm2)
Antenna diversity	Single antenna
Lek nbolek Anbor	☐ Multiple antennas
otek Anbor Anbor	Tx diversity
Anboten Ano	Rx diversity
botek Anbor A	Tx/Rx diversity
Antenna gain (Max)	Wi-Fi 2.4G/BT: 4.16dBi
Evaluation applied	MPE Evaluation
k Anboren And	SAR Evaluation
K No.	in allow the second

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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)	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						
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/cm²

Pout=output power to antenna in Mw

G= gain of antenna in linear scale

Pi=3.1416

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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.

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Operating Mode	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits (mW/cm2)
tek Anbote	(dBm)	(dBm)	🔌 (dBm) 🕅	(dBi)	(mW/ cm2)	(IIIVV)CITZ)
BLE	o ^{ve} 3.06	3.06 ±1	4.06	4.16	0.0013	Arboten
WiFi 2.4G	12.79	12.79 ±1	13.79	4.16	0.0124	K 1 nbotek
1-01-	D'.	105	0 MV		K wo.	Pe.

Max Measurement Result

The BLE and WiFi 2.4G can't simultaneous transmission.

Result: PASS.

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