# 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: 2AY7J-RANGE2

## **EUT Specification**

EUT sale substant M	3D Scanner
Frequency band	WLAN: 2.412GHz ~ 2.462GHz
(Operating)	🖂 RLAN: 5.150GHz ~ 5.250GHz
stek unbotek Anbo	RLAN: 5.745GHz ~ 5825GHz
Anbo tak abotek Anbote	
Device category	Portable (<20cm separation)
Anboten Anbo	⊠ Mobile (>20cm separation)
tek obotek Anboi Ai	
Exposure classification	Ccupational/Controlled exposure
npoter Anti tek npotek	General Population/Uncontrolled exposure
Antenna diversity	□ Single antenna
abotek Anbote Ant	Multiple antennas
Ante Anbotek Anbotek Anbo	Tx diversity
Anbo tak abotek An	Rx diversity
tak Anbore Ann otek	Tx/Rx diversity
Max. output power	17.72 dBm (0.059W)
Antenna gain (Max)	ANT1/ANT2: 2.39dBi
Directional antenna gain	5.40dBi
Evaluation applied	⊠ MPE Evaluation
anbotek Anbor A	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 <sup>2</sup> )	Average Time	
unbu vek unbot	(A) Limits for (	Occupational/Con	trol Exposures	botek Anboit	
300-1500	otek Anboren	Anostek-	F/300	Lotek 6 Anbor	
1500-100000	stek - nbotek	Anbo	otek 5.bol	6	
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300-1500	Anborn	lek anter	F/1500	30	
1500-100000	Anboter Anb	- botek	Anbo	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.

### **Measurement Result**

Operating Mode	Maximum output power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm <sup>2</sup> )	Power density Limits (mW/cm <sup>2</sup> )
RLAN	17.72	17.72 ±1	18.72	5.4	0.0514	1 Anot

Result: No Standalone SAR test is required.

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