

FCC ID: 2BFVX-DHQ-20F

RF EXPOSURE EVALUATION

EUT Specification

EUThoren Anto	Industrial wireless remote control				
Model Name Anbotek	DHQ-J6FJM, DH-J6FJM, DH-J, DH-Z, DH-W, DH-, DHM, DHZ, DHJ, DHW, DH-L, DHL, DH-Z2Y, DH-J2Y, DH-Z3Y, DH-J3Y, DH-Z4Y, DHQ-, DHq-, DHC-, DHL-, DH-, DKLD-, DK-, TWS-, DSD-, GS-, GQWS-				
Frequency band (Operating)	 WLAN: 2.412GHz ~ 2.462GHz WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz WLAN: 5.745GHz ~ 5825GHz ☑ Others: 434MHz 				
Device category	☑ Portable (<20cm separation)☐ Mobile (>20cm separation)☐ Others				
Antenna diversity	⊠ Single antenna □ Multiple antennas □ Tx diversity □ Rx diversity				
Max. output power Antenna gain	☐ Tx/Rx diversity 91.41dBuV/m (-3.848dBm)(0.412mW) 3dBi				
Evaluation applied					

Standard Requirement

Portable Device

According to §15.247(i) and §1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance V6, section 4.3.1.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, ¹⁶ where

- ·f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation17
- ·The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Shenzhen Anbotek Compliance Laboratory Limited





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Measurement Result

,nl	Channel Frequency (GHz)	Max Output power (dBm)	Max tune-up tolerance Output power (dBm)	Max Output power (dBm)	Max Output power (mW)	Calculation Value (Note 1)	Threshold Value
	0.434	-3.848	-3.848±1	-2.848	0.519	0.068	3.0

power=Transmitter Spurious-95.2= 91.41 -95.2= -3.848dBm

Note 1: Calculation Value =[(max. power of channel, mW)/(min. test separation distance,

mm)] • [√ f(GHz)].

Fox example: $1.54/5^* \sqrt{0.434} = 0.068 \le 3.0$

According to KDB447498 D01 V6, threshold at which no SAR required is ≤3.0 for 1-g SAR, separation distance is 5mm, and no simultaneous SAR measurement is required.

The SAR measurement is not necessary.

