

MAXIMUM PERMISSIBLE EXPOSURE

KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

2.1091 Radio frequency radiation exposure evaluation: mobile devices.

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	2AOKB-T6310
EUT	eufy Baby Monitor C10
Frequency band (Operating)	☒ BT: 2.402GHz ~ 2.480GHz ☒ 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 ☐ Others:
Device category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation) ☐ Others ____
Exposure classification	☐ Occupational/Controlled exposure ☒ General Population/Uncontrolled exposure
Antenna diversity	☐ Single antenna ☒ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Antenna gain (Max)	ANT1: BLE/ WiFi 2.4G: 4.53dBi WiFi 5.2G: 4.56dBi WiFi 5.3G: 4.79dBi WiFi 5.6G: 4.76dBi WiFi 5.8G: 4.52dBi ANT2: WiFi 2.4G: 1.21dBi WiFi 5.2G: 2.02dBi WiFi 5.3G: 2.35dBi WiFi 5.6G: 2.90dBi WiFi 5.8G: 2.49dBi
Evaluation applied	☒ MPE Evaluation ☐ SAR Evaluation

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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
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-1000000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	30
1500-1000000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in Mw

G = gain of antenna in linear scale

π =3.1416

R = distance between observation point and center of the radiator in cm

P_d 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 ²)	Power density Limits (mW/cm ²)
BLE	4.40	4.40 ±1	5.40	4.53	0.0020	1
WiFi 2.4G_ANT1	23.47	23.47 ±1	24.47	4.53	0.1581	1
WiFi 5.2G_ANT1	14.9	14.9 ±1	15.90	4.56	0.0221	1
WiFi 5.3G_ANT1	17.31	17.31 ±1	18.31	4.79	0.0406	1
WiFi 5.6G_ANT1	17.56	17.56 ±1	18.56	4.76	0.0428	1
WiFi 5.8G_ANT1	18.57	18.57 ±1	19.57	4.52	0.0510	1
WiFi 2.4G_ANT2	24.46	24.46 ±1	25.46	1.21	0.0925	1
WiFi 5.2G_ANT2	16.98	16.98 ±1	17.98	2.02	0.0199	1
WiFi 5.3G_ANT2	18.74	18.74 ±1	19.74	2.35	0.0322	1
WiFi 5.6G_ANT2	19.72	19.72 ±1	20.72	2.90	0.0458	1
WiFi 5.8G_ANT2	20.27	20.27 ±1	21.27	2.49	0.0473	1

Note 1: ANT1 and ANT2 do not support simultaneous transmission.

Note 2: BT, WLAN and RLAN do not support simultaneous transmission.