Maximum Permissive Exposure

FCC ID: 2AHVL-IEITB1DYACO
Product Name: ENT CONSOLE
Model No: (1)WT002 (2)WB001

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (Minutes)
(A) Limits For Occupational / Control Exposures (f = frequency)				
30-300	61.4	0.163	1.0	6
300-1500	…	…	f/300	6
1500-100,000	…	…	5.0	6
(B) Limits For General Population / Uncontrolled Exposure (f = frequency)				
30-300	27.5	0.073	0.2	30
300-1500	…	…	f/1500	30
1500-100,000	…	…	1.0	30

Dyaco International Inc. declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

2. MPE Calculation

2.1 WM-BAN-BM-04 Module (WIFI 2.4G MPE)

Based on safety distance (r) **20cm**, the antenna gain (G) is **1.545 Numerical,** and the highest power output (P) is **150.314mW**, the power density (S) is **0.046202mW/cm^2.**

RF Exposure Calculations:
$S = (P * G) / (4* \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

Where :

Based on safety distance (r)=	20	cm		
Highest Power Output (P)=	21.77	dBm =	**150.314**	mW
Antenna Gain (G)=	1.89	dBi =	**1.545**	Numerical
MPE (S) = (P*G) / (4*π*r^2) =	**= (150.314*1.545)/(4*π*20^2)=**		**0.046202**	mW/cm^2

2.2 WM-BAN-BM-04 Module (BT MPE)

Based on safety distance (r) **20cm**, the antenna gain (G) is **1.545 Numerical,** and the highest power output (P) is **1.117mW**, the power density (S) is **0.005911mW/cm^2**.

RF Exposure Calculations:
$S = (P * G) / (4* \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

Where :

Based on safety distance (r)=	20 cm	
Highest Power Output (P)=	0.48 dBm =	**1.117** mW
Antenna Gain (G)=	1.89 dBi =	**1.545** Numerical
MPE (S) = (P*G) / (4*π*r^2) =	**= (1.117*1.545)/(4*π*20^2)=**	**0.005911** mW/cm^2

2.3 WM-BAN-BM-04 Module (BLE MPE)

Based on safety distance (r) **20cm**, the antenna gain (G) is **1.545 Numerical,** and the highest power output (P) is **2.864mW**, the power density (S) is **0.00088mW/cm^2**.

RF Exposure Calculations:
$S = (P * G) / (4* \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

Where :

Based on safety distance (r)=	20 cm	
Highest Power Output (P)=	4.57 dBm =	**2.864** mW
Antenna Gain (G)=	1.89 dBi =	**1.545** Numerical
MPE (S) = (P*G) / (4*π*r^2) =	**= (2.864*1.545)/(4*π*20^2)=**	**0.000880** mW/cm^2

MPE			
WM-BAN-BM-04 Module WIFI 2.4G (mW/cm^2)	**WM-BAN-BM-04 Module** BT 2.4G (mW/cm^2)	Total (mW/cm^2)	Limit (mW/cm^2)
0.046202	0.005911	0.052113	1

MPE			
WM-BAN-BM-04 Module WIFI 2.4G (mW/cm^2)	**WM-BAN-BM-04 Module** BLE (mW/cm^2)	Total (mW/cm^2)	Limit (mW/cm^2)
0.046202	0.00088	0.047082	1

Sincerely Yours,

Ben Cheng

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Mr. Ben Cheng
Manager
AUDIX Technology Corporation