Maximum Permissive Exposure

FCC ID: VRSHSD-0015-Q Product Name: LCD Monitor

Model No: (1)HSD-0015-Q (2)OMEN X 65 (3)Omen X Emperium 65 Display (4)OMEN X Emperium 65 with NVIDIA G-SYNC HDR (5)OMEN X Emperium 65 Big Format Gaming

Display with NVIDIA G-SYNC HDR

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/cm²)	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

Qisda Corporation 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

WIFI 2.4G MPE

Based on safety distance (r) **20cm**, the antenna gain (G) is **1.875Numerical**, and the highest power output (P) is **501.187mW**, the power density (S) is **0.186952mW/cm²**.

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

Where:

Based on safety distance (r)=	20 cm		
Highest Power Output (P)=	27 dBm =	501.187	mW
Antenna Gain (G)=	2.73 dBi =	1.875	Numerical
MPE (S) = $(P^*G) / (4^*\pi^*r^2) =$	= (501.187*1.875)/(4*π*20 ²)=	0.186952	mW/cm ²

WIFI 5G MPE

Based on safety distance (r) **20cm**, the antenna gain (G) is **2.432Numerical**, and the highest power output (P) is **158.489mW**, the power density (S) is **0.276682mW/cm²**.

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

Where:

Based on safety distance (r)=	20 cm		
Highest Power Output (P)=	22 dBm =	158.489	mW
Antenna Gain (G)=	3.86 dBi =	2.432	Numerical
MPE (S) = $(P^*G) / (4^*\pi^*r^2) =$	$(158.489*2.432)/(4*\pi*20^2)=$	0.076682	mW/cm ²

BT MPE

Based on safety distance (r) **20cm**, the antenna gain (G) is **1.875Numerical**, and the highest power output (P) is **10.000mW**, the power density (S) is **0.003730mW/cm²**.

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

Where:

Based on safety distance (r)=	20	cm		
Highest Power Output (P)=	10	dBm =	10.000	mW
Antenna Gain (G)=	2.73	dBi =	1.875	Numerical
MPE (S) = $(P^*G) / (4^*\pi^*r^2) =$	= (10.000*1.875)/	$(4*\pi*20^2)=$	0.003730	mW/cm ²

MPE			
WIFI 2.4G	BT	Total	Limit
(mW/cm ²)	(mW/cm ²)	(mW/cm ²)	(mW/cm ²)
0.186952	0.003730	0.190682	≦1

Sincerely Yours,

Mr. Ben Cheng Manager

AUDIX Technology Corporation