



Maximum Permissible Exposure (MPE)

EUT INFORMATION

FCC ID	2ANVVHD-550001
EUT	55" interactive kiosk
Frequency band (Operating)	2.412 GHz ~ 2.462 GHz
Antenna diversity	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☒ Tx/Rx diversity
Max. output power	16.59 dBm (102.80 mW)
Antenna gain (Max)	2 dBi

TEST RESULT

The modular use shall be at least 20cm distance away from human body.

MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \cdot P \cdot G}}{d}$$

$$\text{Power Density} = P_d \text{ (mW/cm}^2\text{)} = E^2 / 3770$$

Combine these two formulas can be changed to

$$P_d = (30 \cdot P \cdot G) / (3770 \cdot d^2)$$

Note:

1. "E" means Electric field (V/m).
2. "P" means Peak RF output power (W).
3. "G" means EUT Antenna numeric gain (numeric).
4. "d" means the minimum mobile separation distance is 0.2m between radiator and human body.



Modulation Type	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)
802.11b	01	2412	16.04	0.012669	<1
	06	2437	16.57	0.014314	<1
	11	2462	16.35	0.013607	<1
802.11g	01	2412	15.93	0.012352	<1
	06	2437	16.1	0.012845	<1
	11	2462	16.2	0.013145	<1
802.11n HT20	01	2412	16.15	0.012994	<1
	06	2437	16.41	0.013796	<1
	11	2462	16.59	0.014380	<1
802.11n HT40	03	2422	15.07	0.010133	<1
	06	2437	15.01	0.009994	<1
	09	2452	14.94	0.009834	<1