

TEST REPORT

Product Name : LCD Monitor
Model Number : 22ES2
FCC ID : 2BSZU-22ES2

Prepared for : WUHAN ADMIRAL TECHNOLOGY CO., LTD.
Address : Special 8, Caidian Economic Development Zone, Caidian District, Wuhan, China

Prepared by : EMTEK (SHENZHEN) CO., LTD.
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Report Number : ENS2509260302W00303R
Date of sample receipt : Sep 26, 2025
Date(s) of Tests : Sep 26, 2025 to Oct 30, 2025
Date of issue : Oct 31, 2025

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1. TEST RESULT CERTIFICATION

Applicant : WUHAN ADMIRAL TECHNOLOGY CO., LTD.
Address : Special 8, Caidian Economic Development Zone, Caidian District, Wuhan, China
Manufacturer : WUHAN ADMIRAL TECHNOLOGY CO., LTD.
Address : Special 8, Caidian Economic Development Zone, Caidian District, Wuhan, China
Factory : Tongnuo Ezhou Electronics Co., Ltd.
Address : No.1 Red Lotus Road, Red Lotus Lake Tourist Town, Huarong District, E'Zhou City, Hubei Province, China
EUT : LCD Monitor
Model Name : 22ES2
Trademark : Great Wall

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1091	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2020) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1091.

The test results of this report relate only to the tested sample identified in this report

Date of Test : Sep 26, 2025 to Oct 30, 2025

Prepared by : 
Una Yu /Editor

Reviewer : 
Joe Xia/Supervisor

Approve & Authorized Signer : 
Lisa Wang/Manager



Modified History

Version	Report No.	Revision Date	Summary
	ENS2509260302W00303R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	LCD Monitor
Model Number:	22ES2
Sample:	1#
Device Type:	2.4G WIFI Wifi 5G with 5150MHz-5250MHz Band Wifi 5G with 5725MHz-5850MHz Band
Data Rate:	802.11b 802.11g 802.11n(20MHz channel bandwidth) 802.11n(40MHz channel bandwidth) 802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: MCS0-MCS15 802.11ac: MCS0-MCS9
Modulation:	2.4G WIFI: DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; 5G WIFI: OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac
Operating Frequency Range(s) :	2.4G WIFI: 2412-2462MHz for 802.11b/g/n(HT20); 2422-2452MHz for 802.11n(HT40); UNII-1: 5150MHz-5250MHz Band 5180-5240MHz for 802.11a/n(HT20)/ac(VHT20); 5190-5230MHz for 802.11n(HT40)/ac(VHT40); 5210MHz for 802.11ac(VHT80); UNII-3 with 5725MHz-5850MHz Band 5745-5825MHz for 802.11a/n(HT20)/ac(VHT20); 5755-5795MHz for 802.11n(HT40)/ac(VHT40); 5775MHz for 802.11ac(VHT80);
Transmit Power Max:	2.4G WIFI: 15.9 dBm(0.038905 W) UNII-1 Band: 15.71 dBm(0.037239W) UNII-3 Band: 15.32 dBm(0.034041W)

Antenna Type:	Internal Antenna
Antenna Gain:	2.4G WIFI: ANT1:4.01 dBi ANT2:3.91 dBi UNII-1&3 Band: ANT1:3.31 dBi ANT2:3.61 dBi
Power supply:	DC 12.0V from adapter Adapter :Model:SOY-1200300 INPUT:100-240V~50/60Hz 1.2A Max OUTPUT:12.0V= 3.0A 36.0W
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

3. Test Requirement:

RF EXPOSURE EVALUATION

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)

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
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	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 = Numeric gain of the antenna relative to isotropic antenna

π =3.1416

R =20, distance between observation point and center of the radiator in cm

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the nd total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Measurement Result

Channel Freq. (MHz)	Antenna	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
			(dBm)		tune-up power		Gain			
					(dBm)	(mW)	(dBi)	Numeric		
2412	Ant1	11B	12.85	13±1	14	25.119	4.01	2.52	0.0126	1
2412	Ant2		11.6	11±1	12	15.849	3.91	2.46	0.0078	1
2437	Ant1		13.47	13±1	14	25.119	4.01	2.52	0.0126	1
2437	Ant2		11.91	12±1	13	19.953	3.91	2.46	0.0098	1
2462	Ant1		12.89	13±1	14	25.119	4.01	2.52	0.0126	1
2462	Ant2		12.35	12±1	12	15.849	3.91	2.46	0.0078	1
2412	Ant1	11G	13.37	13±1	14	25.119	4.01	2.52	0.0126	1
2412	Ant2		12.81	12±1	13	19.953	3.91	2.46	0.0098	1
2437	Ant1		13.42	13±1	14	25.119	4.01	2.52	0.0126	1
2437	Ant2		13.27	13±1	14	25.119	3.91	2.46	0.0123	1
2462	Ant1		12.79	12±1	13	19.953	4.01	2.52	0.01	1
2462	Ant2		12.96	13±1	14	25.119	3.91	2.46	0.0123	1
2412	Ant1	11N20SISO	13.25	13±1	14	25.119	4.01	2.52	0.0126	1
2412	Ant2		12.8	12±1	13	19.953	3.91	2.46	0.0098	1
2437	Ant1		13.65	13±1	14	25.119	4.01	2.52	0.0126	1
2437	Ant2		13.11	13±1	14	25.119	3.91	2.46	0.0123	1
2462	Ant1		12.82	12±1	13	19.953	4.01	2.52	0.01	1
2462	Ant2		12.81	12±1	13	19.953	3.91	2.46	0.0098	1
2412	Ant1	11N20MIMO	12.71	12±1	13	19.953	4.01	2.52	0.01	1
2412	Ant2		12.17	12±1	13	19.953	3.91	2.46	0.0098	1
2412	total		15.46	15±1	16	39.811	6.97	4.98	0.0394	1
2437	Ant1		12.97	13±1	14	25.119	4.01	2.52	0.0126	1
2437	Ant2		12.41	12±1	13	19.953	3.91	2.46	0.0098	1
2437	total		15.71	15±1	16	39.811	6.97	4.98	0.0394	1
2462	Ant1		12.02	12±1	13	19.953	4.01	2.52	0.01	1
2462	Ant2		11.82	11±1	12	15.849	3.91	2.46	0.0078	1
2462	total		14.93	15±1	16	39.811	6.97	4.98	0.0394	1
2422	Ant1	11N40SISO	13.77	13±1	14	25.119	4.01	2.52	0.0126	1
2422	Ant2		12.67	12±1	13	19.953	3.91	2.46	0.0098	1
2437	Ant1		13.59	13±1	14	25.119	4.01	2.52	0.0126	1
2437	Ant2		13.26	13±1	14	25.119	3.91	2.46	0.0123	1
2452	Ant1		13.08	13±1	14	25.119	4.01	2.52	0.0126	1
2452	Ant2		13.13	13±1	14	25.119	3.91	2.46	0.0123	1
2422	Ant1	11N40MIMO	12.93	13±1	14	25.119	4.01	2.52	0.0126	1
2422	Ant2		12.73	12±1	13	19.953	3.91	2.46	0.0098	1
2422	total		15.84	15±1	16	39.811	6.97	4.98	0.0394	1
2437	Ant1		12.94	13±1	14	25.119	4.01	2.52	0.0126	1
2437	Ant2		12.73	12±1	13	19.953	3.91	2.46	0.0098	1
2437	total		15.85	15±1	16	39.811	6.97	4.98	0.0394	1
2452	Ant1		12.97	13±1	14	25.119	4.01	2.52	0.0126	1
2452	Ant2		12.8	12±1	13	19.953	3.91	2.46	0.0098	1
2452	total		15.9	16±1	17	50.119	6.97	4.98	0.0497	1

Channel Freq. (MHz)	Antenna	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density Limits
			(dBm)		tune-up power		Gain		(mW/cm2)	(mW/cm2)
					(dBm)	(mW)	(dBi)	Numeric		
5180	Ant1	11A	12.81	12±1	13	19.953	3.31	2.14	0.0085	1
5180	Ant2		13.46	13±1	14	25.119	3.61	2.3	0.0115	1
5200	Ant1		12.31	12±1	13	19.953	3.31	2.14	0.0085	1
5200	Ant2		13.24	13±1	14	25.119	3.61	2.3	0.0115	1
5240	Ant1		13.37	13±1	14	25.119	3.31	2.14	0.0107	1
5240	Ant2		13.44	13±1	14	25.119	3.61	2.3	0.0115	1
5745	Ant1		11.74	11±1	12	15.849	3.31	2.14	0.0067	1
5745	Ant2		11.16	11±1	12	15.849	3.61	2.3	0.0073	1
5785	Ant1		12.56	12±1	13	19.953	3.31	2.14	0.0085	1
5785	Ant2		12.87	12±1	13	19.953	3.61	2.3	0.0091	1
5825	Ant1		12.76	12±1	13	19.953	3.31	2.14	0.0085	1
5825	Ant2		14.72	14±1	15	31.623	3.61	2.3	0.0145	1
5180	Ant1	11N20SIS O	12.79	12±1	13	19.953	3.31	2.14	0.0085	1
5180	Ant2		12.78	12±1	13	19.953	3.61	2.3	0.0091	1
5200	Ant1		12.65	12±1	13	19.953	3.31	2.14	0.0085	1
5200	Ant2		13.15	13±1	14	25.119	3.61	2.3	0.0115	1
5240	Ant1		13.57	13±1	14	25.119	3.31	2.14	0.0107	1
5240	Ant2		13.3	13±1	14	25.119	3.61	2.3	0.0115	1
5745	Ant1		11.38	11±1	12	15.849	3.31	2.14	0.0067	1
5745	Ant2		11.24	11±1	12	15.849	3.61	2.3	0.0073	1
5785	Ant1		11.81	11±1	12	15.849	3.31	2.14	0.0067	1
5785	Ant2		12.58	12±1	13	19.953	3.61	2.3	0.0091	1
5825	Ant1		12.57	12±1	13	19.953	3.31	2.14	0.0085	1
5825	Ant2		13.32	13±1	14	25.119	3.61	2.3	0.0115	1
5180	Ant1	11N20MIM O	11.96	12±1	13	19.953	3.31	2.14	0.0085	1
5180	Ant2		12.12	12±1	13	19.953	3.61	2.3	0.0091	1
5180	total		15.05	15±1	16	39.811	6.47	4.44	0.0352	1
5200	Ant1		12.07	12±1	13	19.953	3.31	2.14	0.0085	1
5200	Ant2		12.53	12±1	13	19.953	3.61	2.3	0.0091	1
5200	total		15.32	15±1	16	39.811	6.47	4.44	0.0352	1
5240	Ant1		12.84	12±1	13	19.953	3.31	2.14	0.0085	1
5240	Ant2		12.56	12±1	13	19.953	3.61	2.3	0.0091	1
5240	total		15.71	15±1	16	39.811	6.47	4.44	0.0352	1
5745	Ant1		10.48	10±1	11	12.589	3.31	2.14	0.0054	1
5745	Ant2		10.19	10±1	11	12.589	3.61	2.3	0.0058	1
5745	total		13.35	13±1	14	25.119	6.47	4.44	0.0222	1
5785	Ant1		10.97	11±1	12	15.849	3.31	2.14	0.0067	1
5785	Ant2		11.56	11±1	12	15.849	3.61	2.3	0.0073	1
5785	total		14.29	14±1	15	31.623	6.47	4.44	0.0279	1
5825	Ant1		11.4	11±1	12	15.849	3.31	2.14	0.0067	1
5825	Ant2		12.18	12±1	13	19.953	3.61	2.3	0.0091	1
5825	total		14.82	14±1	15	31.623	6.47	4.44	0.0279	1

5190	Ant1	11N40SIS O	12.26	12±1	13	19.953	3.31	2.14	0.0085	1
5190	Ant2		12.64	12±1	13	19.953	3.61	2.3	0.0091	1
5230	Ant1		8.24	8±1	9	7.943	3.31	2.14	0.0034	1
5230	Ant2		12.48	12±1	13	19.953	3.61	2.3	0.0091	1
5755	Ant1		10.77	10±1	11	12.589	3.31	2.14	0.0054	1
5755	Ant2		11.11	11±1	12	15.849	3.61	2.3	0.0073	1
5795	Ant1		12.03	12±1	13	19.953	3.31	2.14	0.0085	1
5795	Ant2		12.55	12±1	13	19.953	3.61	2.3	0.0091	1
5190	Ant1	11N40MIM O	11.4	11±1	12	15.849	3.31	2.14	0.0067	1
5190	Ant2		11.72	11±1	12	15.849	3.61	2.3	0.0073	1
5190	total		14.57	14±1	15	31.623	6.47	4.44	0.0279	1
5230	Ant1		11.96	12±1	13	19.953	3.31	2.14	0.0085	1
5230	Ant2		11.79	11±1	12	15.849	3.61	2.3	0.0073	1
5230	total		14.89	15±1	16	39.811	6.47	4.44	0.0352	1
5755	Ant1		9.93	10±1	11	12.589	3.31	2.14	0.0054	1
5755	Ant2		10.06	10±1	11	12.589	3.61	2.3	0.0058	1
5755	total		13.01	13±1	14	25.119	6.47	4.44	0.0222	1
5795	Ant1		10.81	10±1	11	12.589	3.31	2.14	0.0054	1
5795	Ant2		11.42	11±1	12	15.849	3.61	2.3	0.0073	1
5795	total		14.14	14±1	15	31.623	6.47	4.44	0.0279	1
5180	Ant1	11AC20SI SO	12.89	13±1	14	25.119	3.31	2.14	0.0107	1
5180	Ant2		13.05	13±1	14	25.119	3.61	2.3	0.0115	1
5200	Ant1		12.43	12±1	13	19.953	3.31	2.14	0.0085	1
5200	Ant2		13.02	13±1	14	25.119	3.61	2.3	0.0115	1
5240	Ant1		13.6	13±1	14	25.119	3.31	2.14	0.0107	1
5240	Ant2		13.15	13±1	14	25.119	3.61	2.3	0.0115	1
5745	Ant1		11.52	11±1	12	15.849	3.31	2.14	0.0067	1
5745	Ant2		10.89	11±1	12	15.849	3.61	2.3	0.0073	1
5785	Ant1		11.99	12±1	13	19.953	3.31	2.14	0.0085	1
5785	Ant2		12.54	12±1	13	19.953	3.61	2.3	0.0091	1
5825	Ant1		12.81	12±1	13	19.953	3.31	2.14	0.0085	1
5825	Ant2		13.12	13±1	14	25.119	3.61	2.3	0.0115	1
5180	Ant1	11AC20MI MO	11.77	11±1	12	15.849	3.31	2.14	0.0067	1
5180	Ant2		11.8	11±1	12	15.849	3.61	2.3	0.0073	1
5180	total		14.8	14±1	15	31.623	6.47	4.44	0.0279	1
5200	Ant1		11.59	11±1	12	15.849	3.31	2.14	0.0067	1
5200	Ant2		12.15	12±1	13	19.953	3.61	2.3	0.0091	1
5200	total		14.89	15±1	16	39.811	6.47	4.44	0.0352	1
5240	Ant1		12.61	12±1	13	19.953	3.31	2.14	0.0085	1
5240	Ant2		12.74	12±1	13	19.953	3.61	2.3	0.0091	1
5240	total		15.69	15±1	16	39.811	6.47	4.44	0.0352	1
5745	Ant1		10.76	10±1	11	12.589	3.31	2.14	0.0054	1
5745	Ant2		10.43	10±1	11	12.589	3.61	2.3	0.0058	1
5745	total		13.61	13±1	14	25.119	6.47	4.44	0.0222	1
5785	Ant1		11.52	11±1	12	15.849	3.31	2.14	0.0067	1
5785	Ant2		12.07	12±1	13	19.953	3.61	2.3	0.0091	1

5785	total		14.81	14±1	15	31.623	6.47	4.44	0.0279	1
5825	Ant1		11.93	12±1	13	19.953	3.31	2.14	0.0085	1
5825	Ant2		12.65	12±1	13	19.953	3.61	2.3	0.0091	1
5825	total		15.32	15±1	16	39.811	6.47	4.44	0.0352	1
5190	Ant1	11AC40SI SO	7.64	7±1	8	6.31	3.31	2.14	0.0027	1
5190	Ant2		12.69	12±1	13	19.953	3.61	2.3	0.0091	1
5230	Ant1		13.31	13±1	14	25.119	3.31	2.14	0.0107	1
5230	Ant2		12.77	12±1	13	19.953	3.61	2.3	0.0091	1
5755	Ant1		11.2	11±1	12	15.849	3.31	2.14	0.0067	1
5755	Ant2		11.16	11±1	12	15.849	3.61	2.3	0.0073	1
5795	Ant1		12.24	12±1	13	19.953	3.31	2.14	0.0085	1
5795	Ant2		12.7	12±1	13	19.953	3.61	2.3	0.0091	1
5190	Ant1	11AC40MI MO	7.14	7±1	8	6.31	3.31	2.14	0.0027	1
5190	Ant2		7.63	7±1	8	6.31	3.61	2.3	0.0029	1
5190	total		10.4	10±1	11	12.589	6.47	4.44	0.0111	1
5230	Ant1		7.7	7±1	8	6.31	3.31	2.14	0.0027	1
5230	Ant2		7.6	7±1	8	6.31	3.61	2.3	0.0029	1
5230	total		10.66	10±1	11	12.589	6.47	4.44	0.0111	1
5755	Ant1		10.54	10±1	11	12.589	3.31	2.14	0.0054	1
5755	Ant2		10.45	10±1	11	12.589	3.61	2.3	0.0058	1
5755	total		13.51	13±1	14	25.119	6.47	4.44	0.0222	1
5795	Ant1		10.95	11±1	12	15.849	3.31	2.14	0.0067	1
5795	Ant2		11.63	11±1	12	15.849	3.61	2.3	0.0073	1
5795	total		14.31	14±1	15	31.623	6.47	4.44	0.0279	1
5210	Ant1	11AC80SI SO	12.89	13±1	14	25.119	3.31	2.14	0.0107	1
5210	Ant2		12.76	12±1	13	19.953	3.61	2.3	0.0091	1
5775	Ant1		12.31	12±1	13	19.953	3.31	2.14	0.0085	1
5775	Ant2		12.1	12±1	13	19.953	3.61	2.3	0.0091	1
5210	Ant1	11AC80MI MO	12.01	12±1	13	19.953	3.31	2.14	0.0085	1
5210	Ant2		12.12	12±1	13	19.953	3.61	2.3	0.0091	1
5210	total		15.08	15±1	16	39.811	6.47	4.44	0.0352	1
5775	Ant1		11.61	11±1	12	15.849	3.31	2.14	0.0067	1
5775	Ant2		11.41	11±1	12	15.849	3.61	2.3	0.0073	1
5775	total		14.52	14±1	15	31.623	6.47	4.44	0.0279	1

According to KDB 447498, no stand-alone required for WIFI antenna, and no simultaneous SAR measurement is required.

*** End of Report ***