

FCC TEST REPORT

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Report No.: STS2304051W02

Issued for

Shenzhen Yize Innovation Technology Co., Ltd.

201, 2nd Floor, Building 3, Yunli Smart Park, Bantian Street, Longgang District, Shenzhen, CN

Product Name: Smart Watch Charging Dock		
Brand: N/A		
Model Number:	EZE-AW	
Series Model(s): E5, E7		
FCC ID:	D: 2BA6N-EZE-AW	
Test Standard:	FCC Part 15 Subpart C	

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Report No.: STS2304051W02

TEST RESULT CERTIFICATION

Applicant's Name	Shenzhen Yize Innovation Technology Co., Ltd.
Address	201, 2nd Floor, Building 3, Yunli Smart Park, Bantian Street, Longgang District, Shenzhen, CN
Manufacturer's Name:	DongGuan RuiHong Lian Technology Co.,Ltd.
Address	Floor 3, building 2, No.12, Yongqiang Road, Huangjiang Town, Dongguan City, Guangdong Province, China
Product Description	
Product Name	Smart Watch Charging Dock
Brand	
	N/A
Brand	N/A EZE-AW
Brand: Model Number	N/A EZE-AW E5, E7

Test Procedure: ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....

Date of receipt of test item:	17 Apr. 2023
Date (s) of performance of tests :	17 Apr. 2023 ~ 21 Apr. 2023
Date of Issue:	21 Apr. 2023

Test Result Pass

Testing Engineer

(Chris Chen)

Technical Manager

(Sean She)

APPROVAL 6

Authorized Signatory :

(Bovey Yang)

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Revision History

Rev.	Issue Date Report NO.		Effect Page	Contents
00	21 Apr. 2023	STS2304051W02	ALL	Initial Issue



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 , Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.209(a)	Radiated emission, Spurious Emission	PASS		
15.215	20 dB Bandwidth	PASS		

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	RF output power, conducted	±1.197dB
2	Unwanted Emissions, conducted	±2.896dB
3	All emissions, radiated 9K-30MHz	±3.84dB
4	All emissions, radiated 30M-1GHz	±3.94dB
5	All emissions, radiated 1G-6GHz	±4.59dB
6	All emissions, radiated>6G	±5.22dB
7	Conducted Emission (9KHz-150KHz)	±2.14dB
8	Conducted Emission (150KHz-30MHz)	±2.54dB
9	Occupied Channel Bandwidth	±3.5%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Smart Watch Charging Dock	
Brand	N/A	
Model Number	EZE-AW	
Series Model(s)	E5, E7	
Model Difference	Only difference in the model name and appearance.	
Channel List	Please refer to the Note 2.	
Antenna Type	Please refer to the Note 3.	
Equipemnt Category Non-ISM frequency		
perating frequency 110.5-205KHz		
Modulation Type	Load modulation	
Rating:	Input: DC 5V 1A Output: 3W max	
Hardware version number	N/A	
Software version number	N/A	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.

2.

	Chanr	nel List		
Channel Frequency (KHz) Channel Frequency (KHz) Channel Frequency (KHz) Channel (KHz)				
151.3				
-	(KHz)	Frequency (KHz) Channel	Frequency (KHz) Channel Frequency (KHz)	Frequency (KHz) Channel Frequency (KHz) Channel

3. Table for Filed Antenna

•			A			
	Ant.	Brand	Model Name	Antenna Type	Connector	NOTE
	1	N/A	EZE-AW	Coil	N/A	Antenna



2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Charging+TX Mode

For Conducted Emission	
Final Test Mode	Description
Mode 1	Charging+TX Mode

For Radiated Emission				
Final Test Mode Description				
Mode 1 Charging+TX Mode				



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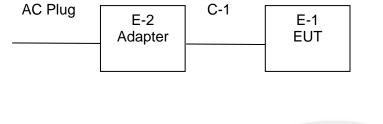


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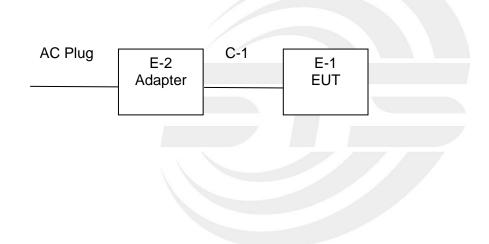
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Radiated Emission Test



Conducted EmissionTest



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2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-2	Adapter	Apple	A2244	N/A	N/A
C-1	DC Cable	N/A	N/A	80cm	NO

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
Load	Watch	Apple	Series 7	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in ^[] Length ^{_} column.
- (2) "YES" is means "with core"; "NO" is means "without core".



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2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
Test Receiver	R&S	ESCI	101427	2022.09.29	2023.09.28	
Signal Analyzer	R&S	FSV 40-N	101823	2022.09.29	2023.09.28	
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2024.02.27	
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29	
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2022.07.04	2023.07.03	
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.29	
Test SW	BALUN		BL410-E/18	.905		
Conduction Test eq	uipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
Test Receiver	R&S	ESCI	101427	2022.09.29	2023.09.28	
LISN	R&S	ENV216	101242	2022.09.28	2023.09.27	
LISN	EMCO	3810/2NM	23625	2022.09.28	2023.09.27	
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.29	
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 CE)				

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3. CONDUCTED EMISSION TEST RESULT (SECTION 15.207)

3.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

	Class B (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of "*" marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



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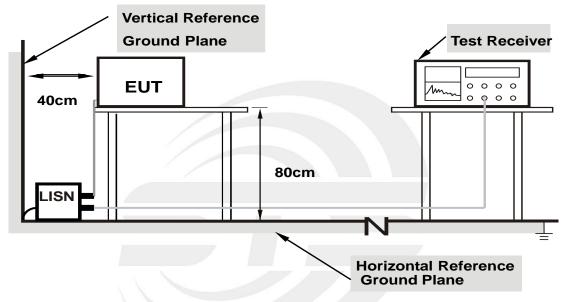




3.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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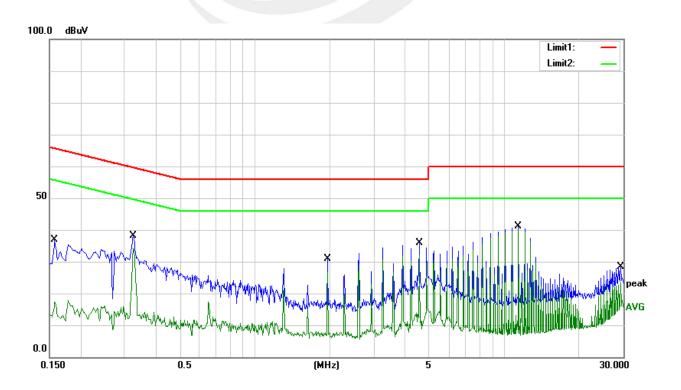
3.5 TEST RESULTS

Temperature:		Relative Humidity:	52%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 1		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1580	26.45	10.31	36.76	65.57	-28.81	QP
2	0.1580	7.62	10.31	17.93	55.57	-37.64	AVG
3	0.3260	27.30	10.73	38.03	59.55	-21.52	QP
4	0.3260	23.41	10.73	34.14	49.55	-15.41	AVG
5	1.9580	20.42	10.39	30.81	56.00	-25.19	QP
6	1.9580	16.24	10.39	26.63	46.00	-19.37	AVG
7	4.5700	25.37	10.52	35.89	56.00	-20.11	QP
8	4.5700	21.69	10.52	32.21	46.00	-13.79	AVG
9	11.4220	30.14	11.10	41.24	60.00	-18.76	QP
10	11.4220	29.20	11.10	40.30	50.00	-9.70	AVG
11	29.3660	15.15	13.12	28.27	60.00	-31.73	QP
12	29.3660	10.24	13.12	23.36	50.00	-26.64	AVG

Remark:

- All readings are Quasi-Peak and Average values
 Margin = Result (Result =Reading + Factor)–Limit
- 3. Factor=LISN factor+Cable loss+Limiter (10dB)



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Temperature:		Relative Humidity:	52%
Test Voltage:	AC 120V/60Hz	Phase:	Ν
Test Mode:	Mode 1		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1860	25.01	10.37	35.38	64.21	-28.83	QP
2	0.1860	8.81	10.37	19.18	54.21	-35.03	AVG
3	0.3260	28.51	10.73	39.24	59.55	-20.31	QP
4	0.3260	22.94	10.73	33.67	49.55	-15.88	AVG
5	1.6980	19.00	10.36	29.36	56.00	-26.64	QP
6	1.6980	11.44	10.36	21.80	46.00	-24.20	AVG
7	5.4300	28.75	10.54	39.29	60.00	-20.71	QP
8	5.4300	20.89	10.54	31.43	50.00	-18.57	AVG
9	10.8620	26.94	11.03	37.97	60.00	-22.03	QP
10	10.8620	24.05	11.03	35.08	50.00	-14.92	AVG
11	28.7100	12.79	13.06	25.85	60.00	-34.15	QP
12	28.7100	10.02	13.06	23.08	50.00	-26.92	AVG

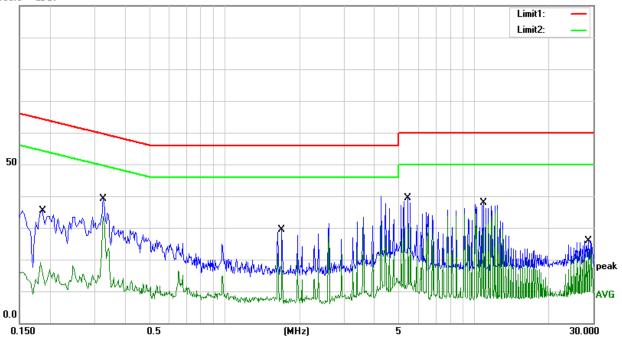
Remark:

1. All readings are Quasi-Peak and Average values

2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor=LISN factor+Cable loss+Limiter (10dB)

100.0 dBuV



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4. RADIATED& FIELD EMISSION TEST RESULT (SECTIOU 15.209)

4.1 LIMIT

Frequency [MHz]	Field Strength [uV/m]	Measurement Distance [Meters]
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Receiver Parameter	Setting	
Attenuation	Auto	
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for AV	
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP	
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for AV	
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP	
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP	

§ 15.209(d)The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.2 TEST PROCEDURE

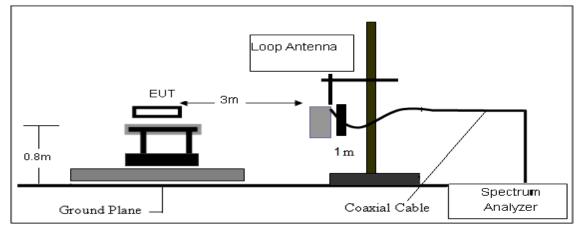
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- d. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

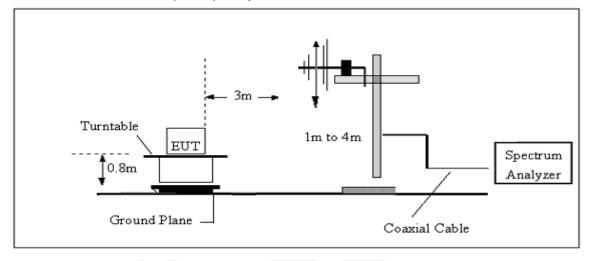


4.3 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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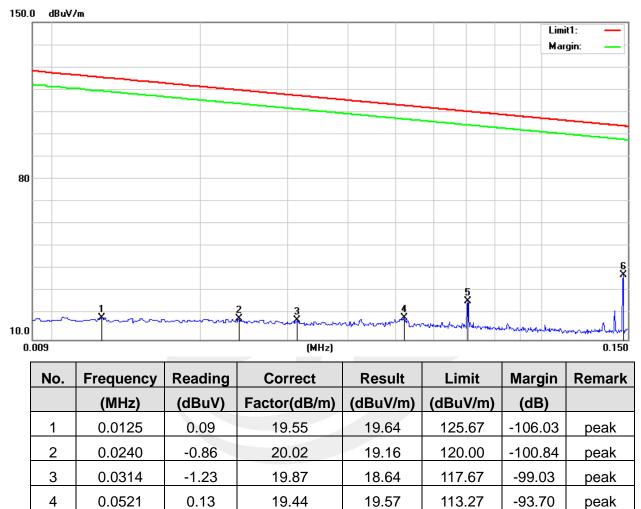
4.4 TEST RESULTS

Temperature :	23.1 ℃	Relative Humidity :	60%
Test Voltage :	DC 5V	Test Mode :	TX Mode

4.4.1 Spurious Radiated Emission Below 30 MHz

Model: EZE-AW

9KHz-150KHz



18.93

17.51

26.96

38.65

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6

0.0704

0.1468

8.03

21.14

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110.65

104.27

-83.69

-65.62

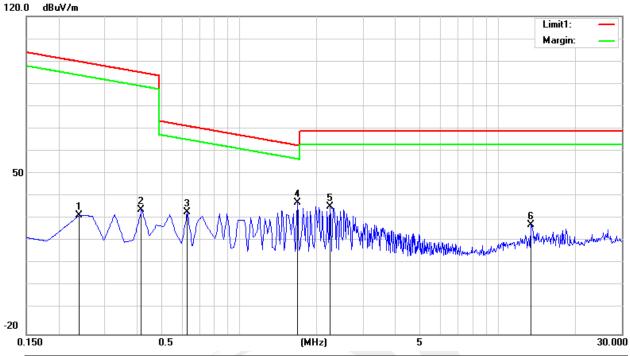
peak

peak



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150KHz-30MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.2396	12.51	19.83	32.34	100.01	-67.67	peak
2	0.4187	14.75	20.17	34.92	95.17	-60.25	peak
3	0.6276	13.41	20.25	33.66	71.65	-37.99	peak
4	1.6724	17.63	20.33	37.96	63.14	-25.18	peak
5	2.2395	15.83	20.33	36.16	69.50	-33.34	peak
6	13.4034	7.12	20.95	28.07	69.50	-41.43	peak

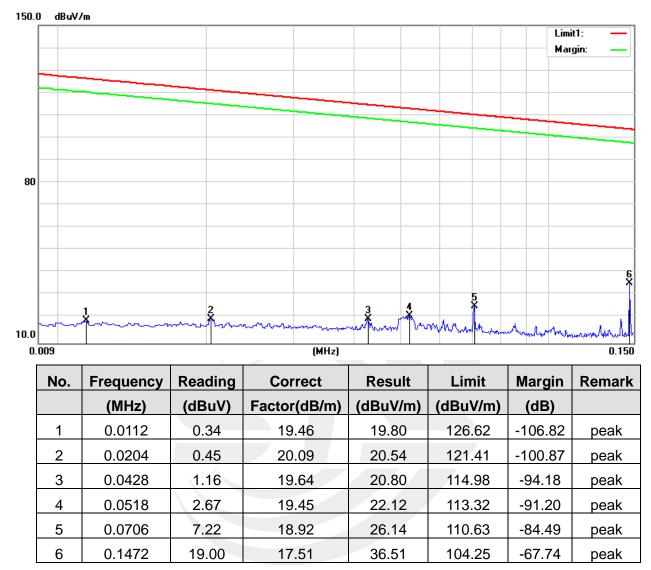
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Report No.: STS2304051W02



Model: E7 9KHz-150KHz

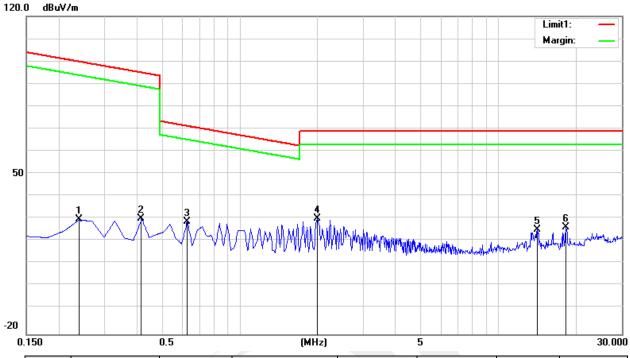


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150KHz-30MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.2396	10.58	19.83	30.41	100.01	-69.60	peak
2	0.4187	10.60	20.17	30.77	95.17	-64.40	peak
3	0.6276	9.45	20.25	29.70	71.65	-41.95	peak
4	2.0007	10.49	20.40	30.89	69.50	-38.61	peak
5	14.1496	4.79	21.11	25.90	69.50	-43.60	peak
6	18.2391	4.85	22.08	26.93	69.50	-42.57	peak

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4.4.2 Spurious Radiated Emission below 1 GHz

Temperature :	23.1 ℃	Relative Humidity :	60%
Test Voltage :	DC 5V	Test Mode :	Mode 1

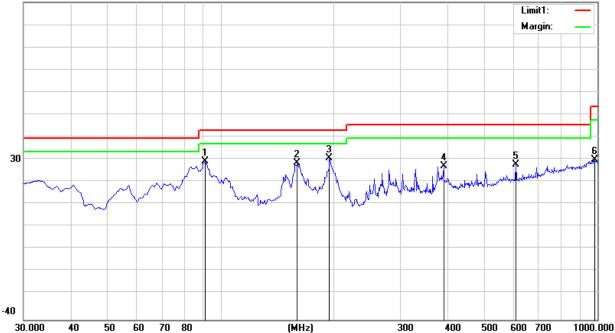
Model: EZE-AW

The following table shows the highest levels of radiated emissions on polarizations of vertical

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark
91.1100	51.10	-21.31	29.79	43.50	-13.71	peak
159.9800	47.79	-18.81	28.98	43.50	-14.52	peak
194.9000	52.32	-21.14	31.18	43.50	-12.32	peak
390.8400	39.29	-11.54	27.75	46.00	-18.25	peak
608.1200	34.11	-5.56	28.55	46.00	-17.45	peak
985.4500	28.08	2.33	30.41	54.00	-23.59	peak

Remark:

- 1. Margin = Result (Result = Reading + Factor)–Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain 100.0 dBuV/m



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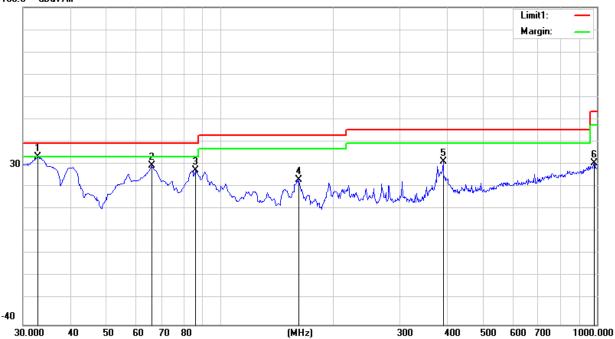
Temperature :	23.1 ℃	Relative Humidity :	60%
Test Voltage :	DC 5V	Test Mode :	Mode 1

The following table shows the highest levels of radiated emissions on polarizations of horizontal

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark
32.9100	48.35	-14.33	34.02	40.00	-5.98	peak
65.8900	55.77	-25.60	30.17	40.00	-9.83	peak
86.2600	50.10	-21.96	28.14	40.00	-11.86	peak
161.9200	43.02	-19.01	24.01	43.50	-19.49	peak
390.8400	43.32	-11.54	31.78	46.00	-14.22	peak
983.5100	28.60	2.46	31.06	54.00	-22.94	peak

Remark:

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain 100.0 dBuV/m



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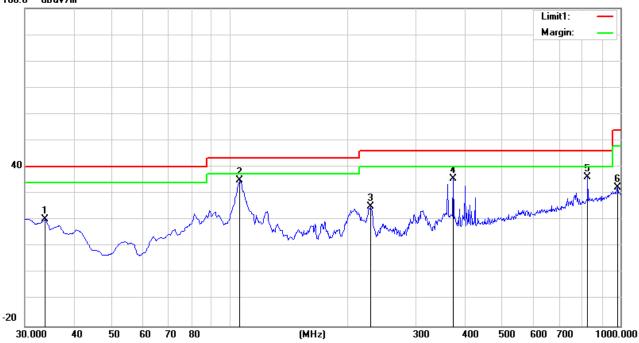
The following table shows the highest levels of radiated emissions on polarizations of vertical

Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark
33.8800	35.27	-14.80	20.47	40.00	-19.53	peak
106.6300	54.44	-19.42	35.02	43.50	-8.48	peak
229.8200	44.34	-19.12	25.22	46.00	-20.78	peak
373.3800	48.11	-12.42	35.69	46.00	-10.31	peak
825.4000	37.58	-1.31	36.27	46.00	-9.73	peak
984.4800	29.99	2.40	32.39	54.00	-21.61	peak

Remark:

- 3. Margin = Result (Result = Reading + Factor)–Limit
- 4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

100.0 dBuV/m



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3
1

Temperature :	23.1 ℃	Relative Humidity :	60%
Test Voltage :	DC 5V	Test Mode :	Mode 1

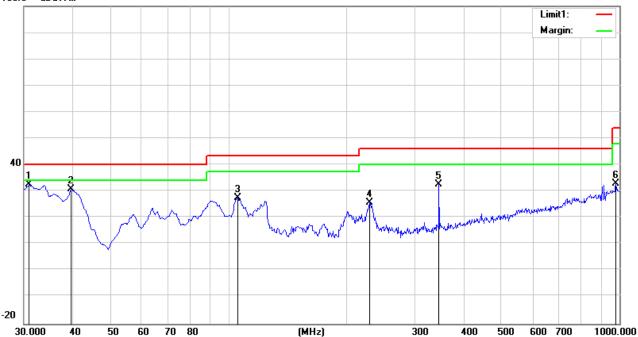
The following table shows the highest levels of radiated emissions on polarizations of horizontal

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark
30.9700	45.94	-13.35	32.59	40.00	-7.41	peak
39.7000	48.82	-17.88	30.94	40.00	-9.06	peak
105.6600	47.11	-19.53	27.58	43.50	-15.92	peak
230.7900	44.90	-19.05	25.85	46.00	-20.15	peak
346.2200	45.82	-13.19	32.63	46.00	-13.37	peak
980.6000	30.26	2.63	32.89	54.00	-21.11	peak

Remark:

3. Margin = Result (Result = Reading + Factor)-Limit

4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



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5. 20 DB BANDWIDTH TEST

5.1 Limit

FCC Part 15.215, Only applicable to report.

5.2 TEST SETUP

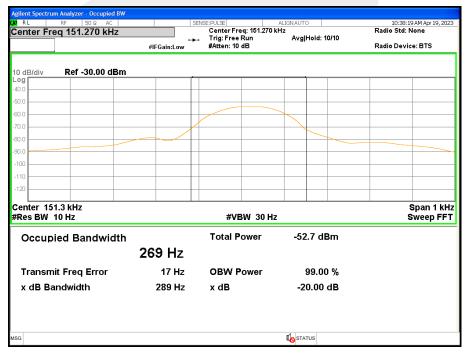
Spectrum Parameter	Setting
Span Frequency	approximately 2 to 3 times the 20 dB bandwidth
RB	greater than 1 % of the 20 dB bandwidth,
VB	equal to the RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

The test program and configuration, Refer to 4.2 and 4.3

5.3 TEST RESULTS

OperatingFrequency (kHz)	20 dB Bandwhidth (Hz)
151.3	289

CH00



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APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

* * * * * END OF THE REPORT * * * * *



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