TEST REPORT

On Behalf of

CLICKWIN LLC.

530 S. Los Angeles St. Unit 2, Los Angeles, CA 90013. United States

FCC ID: 2BEF7-MC02

Model: MC02

January 30, 2024

This Report Concerns: Equipment Type:

Test Engineer: Charlie He / Charlie He

Report Number: QCT24AR-1197E-01

Test Date: January 17~24, 2024

Reviewed By: Gordon Tan/ Candin Tan

Approved By: Kendy Wang / Cur up

Prepared By: Shenzhen QC Testing Laboratory Co., Ltd.

East of 1/F., Building E, Xinghong Science Park, No.111, Shuiku Road, Fenghuanggang, Xixiang Street, Bao'an

District, Shenzhen, Guangdong, China

Tel: 0755-23008269 Fax: 0755-23726780

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Revision History of This Test Report

Report Number	Description	Issued Date
QCT24AR-1197E-01	Initial Issue	2024-1-30
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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Description	Magnetic charging A A A A A A A A A A A A A A A A A A A
Model No.	MC025 Fith Control of the state
Tested Model	MC02 CONTROL OF A THE STATE OF A THE
Sample(s) Status	Engineer sample
Operation Frequency:	446.5~493.5kHz
Modulation type:	ASK COLUMN STEEL S
Antenna Type:	Inductive loop coil Antenna
Antenna gain*1:	OdBi (Max)
Power supply:	DC 5V, 300mA (Powered by USB Port)
WPT Output Power:	
Trade Mark:	KB KBOD COLOR STORES OF ST
Applicant	CLICKWIN ELC:
Address	530 S. Los Angeles St. Unit 2, Los Angeles, CA 90013. United States
Manufacturer	GUANGDONG YILIAN INDUSTRIAL CO., LTD
Address	No.319, Shipai Section, Dongyuan Avenue, Shipai Town, Dongguan City, Guangdong Province
Sample No.	Y24A1197E01LY

Note: *1This information provided by Manufacturer, SZ QC Lab is not responsible for the accuracy of this information.

1.2 System Test Configuration

1.2.1 Support Equipment

7	Manufacturer	Description	Model	Serial Number
1/2	YILIAN STILLE	SMART WATCH	X60 ULTRA	ASTER AS STEET
<	CENTER MDY STATE	Adapter	Input: 100-240V~ 50/60Hz Output: 5V — 0.3A	Carlo

122 Test mode

Test Mode	Description Company of the Company o
Mode 1 O A A	Charging with 1 W wireless charging load (99%)
Mode 2	Charging with 1 W wireless charging load (50%)
Mode 3	Charging with 1 W wireless charging load (1%)

Note: All the modes had been tested, but only the worst data was recorded in the report (Mode 1).

1.3 Test Facility

Test Firm: Shenzhen QC Testing Laboratory Co., Ltd.

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS - Registration No.: L8464

The EMC Laboratory has been accredited by CNAS, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

A2LA Certificate Number: 6759.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 561109

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 29628

CAB identifier: CN0141

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

1.4 Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	±1.42 x10 ⁻⁴ %
RF output power, conducted	±1.06dB
Power Spectral Density, conducted	±1.06dB
AC Power Line Conducted Emission	±1,80dB
Unwanted Emissions, conducted	±2.51dB
Radiated Spurious Emission test (9kHz-30MHz)	±2.66dB
Radiated Spurious Emission test (30MHz-1000MHz)	±4.04dB
Radiated Spurious Emission test (1000MHz-18000MHz)	±4.70 dB
Radiated Spurious Emission test (18GHz-40GHz)	±4.80dB
Temperature of the second seco	±0.8°C/\(\text{1}\)
Humidity of the street of the time	±3.2% (5) (18)
DC and low frequency voltages	±0.1%
Time Time State St	±5% & K K
Duty cycle	

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

2. Summary of Test Results

Test Item	Section	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	(15.207 C C C C C C C C C C C C C C C C C C C	Pass
Spurious Emission Spurious Emission	15.209(a)(f)	Pass
20dB Bandwidth	15.215	Pass

Note: 1. Pass: The EUT complies with the essential requirements in the standard.

- 2.Test according to ANSI C63.10:2013
- 3.. All indications of Pass/Fail in this report are opinions expressed by Shenzhen QC Testing Laboratory Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

3. List of Test and Measurement Instruments

3.1 Conducted Emission Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
EMI Test Receiver	R&S CO	ESIB 7	2277573376	2023.03.21	2024.03.20
Artificial Mains Network	SCHWARZBECK	NSLK8126	8126200	2023.03.21	2024.03.20
PULSE LIMITER	R&S	ESH3-Z2	100058	2023.03.21	2024.03.20
EMITEST RECEIVER	ROHDE & SCHWARZ	ESCS30	834115/014	2023.03.21	2024.03.20
	EMI Test Receiver Artificial Mains Network PULSE LIMITER	EMI Test Receiver R&S Artificial Mains Network SCHWARZBECK PULSE LIMITER R&S EMITEST RECEIVER ROHDE &	EMI Test Receiver R&S ESIB 7 Artificial Mains Network SCHWARZBECK NSLK8126 PULSE LIMITER R&S ESH3-Z2 EMITEST RECEIVED ROHDE & ESCS30	EMI Test Receiver R&S ESIB 7 2277573376 Artificial Mains Network SCHWARZBECK NSLK8126 8126200 PULSE LIMITER R&S ESH3-Z2 100058 EMITEST RECEIVER ROHDE & ESCS30 834115/014	EMI Test Receiver R&S ESIB 7 2277573376 2023.03.21 Artificial Mains Network SCHWARZBECK NSLK8126 8126200 2023.03.21 PULSE LIMITER R&S ESH3-Z2 100058 2023.03.21 EMITEST RECEIVER ROHDE & ESCS30 834115/014 2023.03.21

3.2 Radiated Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
(5) 151 ¹¹	Spectrum Analyzer	ROHDE&SCHWARZ	FSV 40	101458	2023.04.12	2024.04.11
2.	Loop Antenna	EMCO	6502	2133	2022.07.23	2024.07.22
3.	Logarithmic compound broadband Antenna	SCKWARZBECK	VULB9168	VULB9168-1-588	2023.04.01	2025.03.31
4.	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB 7	2277573376	2023.04.12	2024.04.11
5.	EMI Test Receiver	R&S R&S	ESPI	101131	2023.03.21	2024.03.20
6.	Horn Antenna	SCHWARZBECK	BBHA9120D	02069	2023.04.01	2025.03.31
75.18	Horn Antenna	COM-MW	ZLB7-18-40G -950	12221225	2023.01.12	2025.01.09
8.	Amplifier	R&S	BBV9721	9721-031	2023.03.21	2024.03.20
9.	Amplifier	HPX	BP-01G-18G	210902	2023.03.21	2024.03.20
<10,<	966 Chamber	ZhongYu Electron	9*6*6	STE STE IS SE	2022.07.25	2025.07.24

3.3 RF Conducted test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1. 0	Wideband Radio Communication Tester	Rohde & Schwarz	CW500	151583	2023.03.21	2024.03.20
E 2.10	Spectrum Analyzer	ROHDE& SCHWARZ	FSV 40	101458	2023.04.12	2024.04.11
[©] 3.٤°	Signal Generator	Agilent	N5182A	MY50141563	2023.03.21	2024.03.20
g 4 .5°	RF Automatic Test System	MW MW	MW100-RFCB/ MW100-PSB	MW2007004	2023.03.21	2024.03.20

RF Conducted Measurement Software: MTS 8310

4. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna: The Ant is Inductive loop coil Antenna, the best case gain of the antenna is 0dBi, reference to the Internal photo for details.

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5. Conducted Emissions

5.1 Applicable Standard

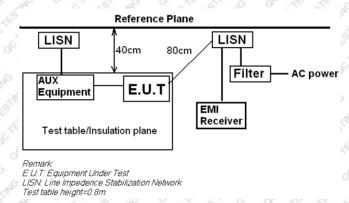
FCC Part15 C Section 15.207

5.2 Limit

- (A411)	Limit (dBµV)		
Frequency range (MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46 ° 6	
5-30	(M) 60 (6) (6) (6)	50	

Note *: The level decreases linearly with the logarithm of the frequency

5.3 Test setup



5.4 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz. RBW=9 kHz, VBW=30 kHz, Sweep time=auto

5.5 Test procedure

- 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
- The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
- Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

5.6 Test Data

Temperature	26 ℃	Humidity	54.5%
ATM Pressure	101.1kPa	Antenna Gain	OdBi O A A
Test by	Charlie He	Test result	PASS

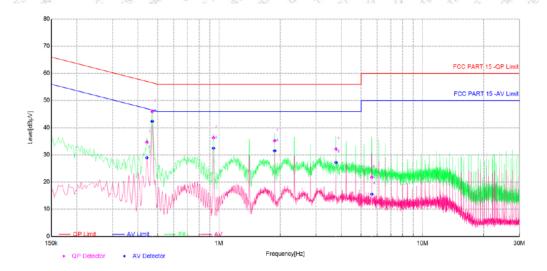
Test voltage: AC 120V/60Hz

Measurement data:

Mode 1 Charging with 1 W wireless charging load (Full Load)

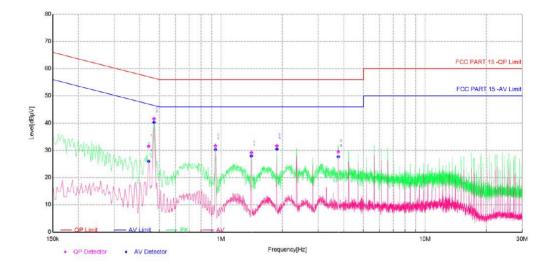
Note: All the modes had been tested, but only the worst data was recorded in the report (Mode 1).

Line:



Fina	Final Data List											
NO.	Freq. [MHz]	Factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Value [dBμV]	AV Limit [dΒμV]	AV Margin [dB]	Phase	Verdict		
1	0.4425	10.14	34.64	57.01	22.37	28.92	47.01	18.09	L	PASS		
2	0.4700	10.21	45.92	56.51	10.59	42.33	46.51	4.18	L	PASS		
3	0.9400	10.05	36.28	56.00	19.72	32.44	46.00	13.56	L	PASS		
4	1.8800	10.14	35.18	56.00	20.82	31.48	46.00	14.52	L	PASS		
5	3.7595	10.33	32.07	56.00	23.93	27.19	46.00	18.81	L	PASS		
6	5.6360	10.29	21.70	60.00	38.30	15.53	50.00	34.47	L	PASS		

Neutral:



Final Data List												
NO.	Freq. [MHz]	Factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Value [dBμV]	AV Limit [dΒμV]	AV Margin [dB]	Phase	Verdict		
1	0.4425	10.37	31.48	57.01	25.53	25.95	47.01	21.06	N	PASS		
2	0.4700	10.33	41.62	56.51	14.89	40.30	46.51	6.21	N	PASS		
3	0.9400	9.97	31.63	56.00	24.37	30.33	46.00	15.67	N	PASS		
4	1.4125	10.04	29.16	56.00	26.84	27.95	46.00	18.05	N	PASS		
5	1.8825	10.17	31.67	56.00	24.33	30.47	46.00	15.53	N	PASS		
6	3.7640	10.34	29.45	56.00	26.55	27.66	46.00	18.34	N	PASS		

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

6. Spurious Emission

6.1 Applicable Standard FCC Part15 C Section 15.209

6.2 Limit

Limits for frequency below 30MHz

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.490	2400/F(kHz)	(2 <u>1</u> 300 12 18	Quasi-peak Value
0.490-1.705	24000/F(kHz)	5 30 ° 5 5	Quasi-peak Value
° √ 1.705-30 ° √	30 (5)	30° ° 6°	Quasi-peak Value

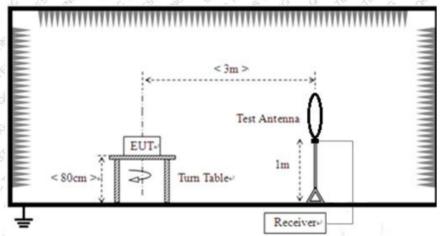
Limits for frequency Above 30MHz

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40,00 5	Quasi-peak Value
88MHz-216MHz	43.50	Quasi-peak Value
216MHz-960MHz	46.00	Quasi-peak Value
960MHz-1GHz	54.00	Quasi-peak Value
Above 1GHz	54.00	Average Value
Above IGHZ	74.00	Peak Value

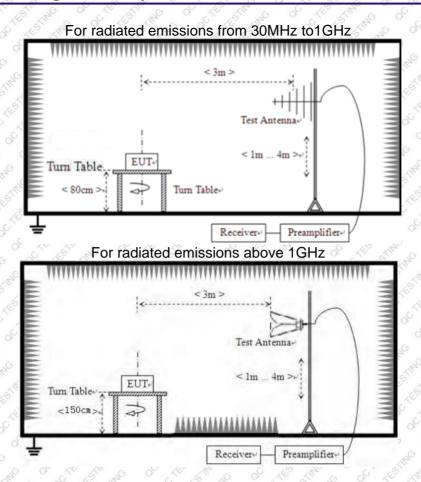
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

6.3 Test setup

For radiated emissions from Below 30MHz







6.4 EMI Test Receiver Setup

Frequency	Detector	RBW	VBW (Remark A
9kHz- 30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak Value
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
A 4 O	Peak	1MHz	3MHz	Peak Value
Above 1GHz	AV A	1MHz	10Hz	Average Value

Remark: For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission test in these three bands are based on measurements employing an average detector.

6.5 Test procedure

- The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the
 maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set
 to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

6.1 Test Data

	Temperature	25 °C	Humidity	49-56%
1	ATM Pressure	101.1kPa	Antenna Gain	OdBi Company
4	Test by	Charlie He	Test result	PASS AND SO AS

Test voltage: AC 120V/60Hz

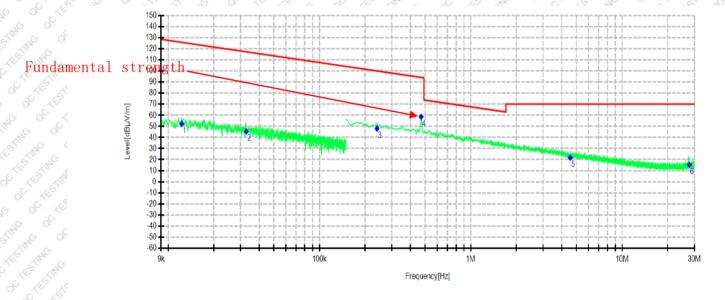
Mode 1 State of All All All	Charging with	1 W wireless charging load	(Full Load)
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Note: All the modes had been tested, but only the worst data was recorded in the report (Mode 1)

Measurement data:

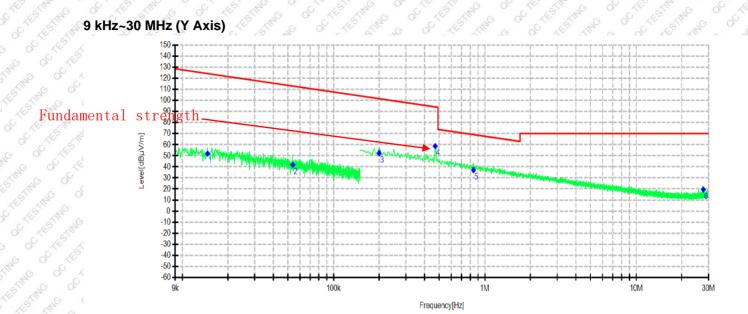
Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80 Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz (X Axis)

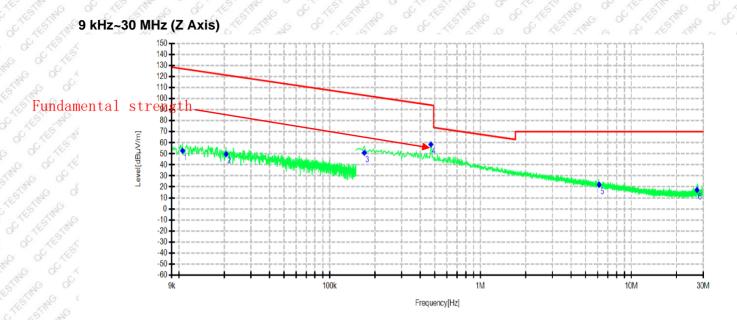


Final Data List								
NO.	Frequency [Hz]	Factor [dB]	Level (dBuV/m)	Limit (dBuV/m)	Margin [dB]	Detector	Verdict	Instrument
1	12.3k	15.83	52.31	125.81	73.5	AVG	PASS	Х
2	32.8k	12.10	45.38	117.29	71.91	AVG	PASS	X
3	240k	10.45	47.96	100.00	52.04	AVG	PASS	Х
4	470k	10.63	58.63	94.16	35.53	AVG	PASS	×
5	4.545M	10.99	21.66	70.00	48.34	QP	PASS	Х
6	27.795M	8.82	15.34	70.00	54.66	QP	PASS	х

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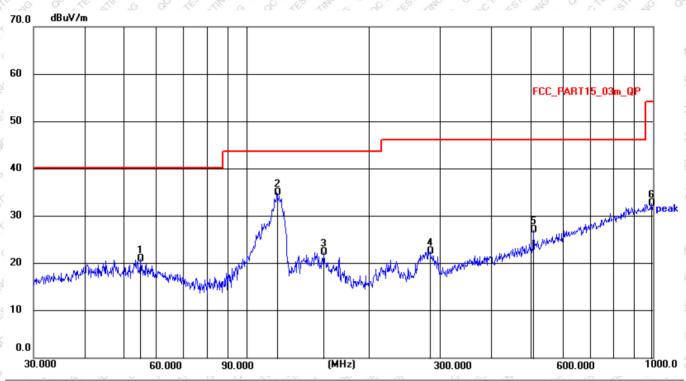
									-
Final Data List									ST.
NO.	Frequency [Hz]	Factor [dB]	Level (dBuV/m)	Limit (dBuV/m)	Margin [dB]	Detector	Verdict	Instrument	9
1	14.7k	15.35	51.92	124.26	72.34	AVG	PASS	Y	5
2	53.7k	11.19	41.84	113.00	71.16	AVG	PASS	Y	k
3	200k	10.42	52.39	101.58	49.19	AVG	PASS	Y	
4	470k	10.63	58.70	94.16	35.46	AVG	PASS	Υ	
5	840k	10.60	37.02	69.12	32.1	QP	PASS	Y	
6	27.795M	8.82	19.48	70.00	50.52	QP	PASS	Y	W.



Final Da	ata List							
NO.	Frequency [Hz]	Factor [dB]	Level (dBuV/m)	Limit (dBuV/m)	Margin [dB]	Detector	Verdict	Instrument
1	10.6k	16.18	52.77	127.10	74.33	AVG	PASS	Z
2	20.6k	14.14	49.67	121.33	71.66	AVG	PASS	Z
3	170k	10.40	50.87	103.00	52.13	AVG	PASS	Z
4	470k	10.63	58.44	94.16	35.72	AVG	PASS	Z
5	6.13M	10.92	21.96	70.00	48.04	QP	PASS	Z
6	27.345M	8.87	17.22	70.00	52.78	QP	PASS	Z

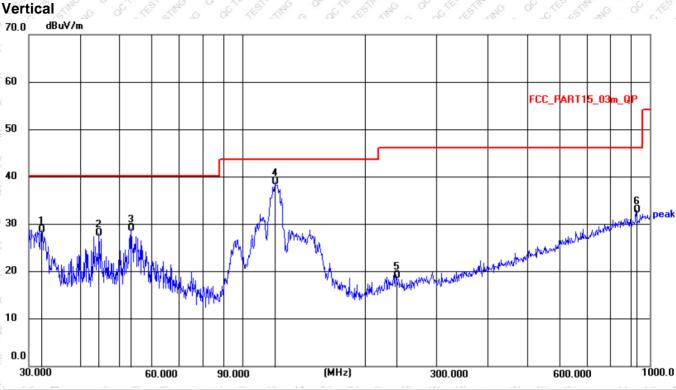


30MHz~1GHz Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	55.0274	6.68	14.27	20.95	40.00	19.05	QP
2 *	119.0180	21.45	13.39	34.84	43.50	8.66	QP
3	154.8204	7.72	14.64	22.36	43.50	21.14	QP
4	282.9852	8.02	14.46	22.48	46.00	23.52	QP
5	508.2582	6.85	20.15	27.00	46.00	19.00	QP
6	993.0114	5.64	26.97	32.61	54.00	21.39	QP





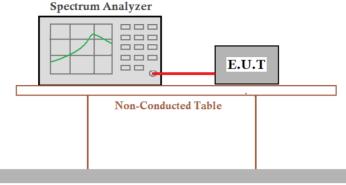
S: -	1.0	200	1.71	Lik Av Av	F2 FXF 1X7	200		11 // 23
5	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
<	1	32.1795	16.01	12.86	28.87	40.00	11.13	QP
(2	44.5868	13.52	14.52	28.04	40.00	11.96	QP
SA.	3	53.5052	15.08	14.14	29.22	40.00	10.78	QP
0.0	4 *	120.2766	25.81	13.13	38.94	43.50	4.56	QP
ç	5	238.3102	5.92	13.33	19.25	46.00	26.75	QP
2	6	925.7563	6.66	26.35	33.01	46.00	12.99	QP

Remarks'

1. Level =Reading + Factor

7. 20dB Occupy Bandwidth

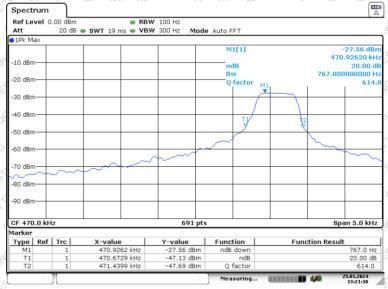
- 7.1 Applicable Standard
 FCC Part15 C Section 15.215
- 7.2 Limit N/A
- 7.3 Test setup



Ground Reference Plane

- 7.4 Test Method ANSI C63.10:2013
- 7.5 Test Data

Temperature	23.5 °C	Humidity	48%
ATM Pressure	101.1kPa	Antenna Gain	OdBi Maria
Test by	Charlie He	Test result	PASS 5 5 5



Date: 25.JAN.2024 13:21:10

470kHz: 20dB BW=0.767kHz

------ THE END OF TEST REPORT ------