



Project No:
Report No.:

TM-2512000212P
TMWK2512005642KR

FCC ID: 2A04C-WLC759DW



Page 1 / 33
Rev. 02

FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Wireless Charger Unit

Model: GN819-01040

Trade Name: UNIMAX

Issued to

UniMax Electronics Inc.
15, Li-Te Rd., Beitou Dist., 112 Taipei City, Taiwan

Issued by

Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan
Issued Date: March 25, 2026

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Project No: TM-2512000212P
Report No.: TMWK2512005642KR

Page 2 / 33
Rev. 02

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	March 12, 2026	Initial Issue	ALL	Peggy Tsai
01	March 25, 2026	See the following Note Rev.(01)	P. 6, 14	Peggy Tsai
02	March 25, 2026	See the following Note Rev.(02)	P. 6	Peggy Tsai

Rev. (01)

1. Modify test summary in section 3.
2. Modify note in section 7.1.

Rev. (02)

1. Modify test summary in section 3.

TABLE OF CONTENTS

1. TEST RESULT CERTIFICATION	4
2. EUT DESCRIPTION	5
3. TEST SUMMARY	6
4. TEST METHODOLOGY	7
4.1 EUT CONFIGURATION	7
4.2 EUT EXERCISE	7
4.3 GENERAL TEST PROCEDURES	7
4.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS	8
4.5 DESCRIPTION OF TEST MODES	9
5. INSTRUMENT CALIBRATION	10
5.1 MEASURING INSTRUMENT CALIBRATION	10
5.2 MEASUREMENT EQUIPMENT USED	11
5.3 MEASUREMENT UNCERTAINTY	12
5.4 FACILITIES AND TEST LOCATION	12
6. SETUP OF EQUIPMENT UNDER TEST	13
6.1 SUPPORT AND EUT ACCESSORIES EQUIPMENT	13
6.2 TEST SETUP DIAGRAM	13
6.3 TEST PROGRAM	13
7. TEST REQUIREMENTS	14
7.1 20DB BANDWIDTH	14
7.2 TRANSMITTER RADIATED EMISSION	16
7.3 AC POWER-LINE CONDUCTED EMISSION	32
7.4 COIL RULERS AND SPECIFICATIONS	33
APPENDIX A PHOTOGRAPHS OF TEST SETUP	A-1
APPENDIX 1 - PHOTOGRAPHS OF EUT	

1. TEST RESULT CERTIFICATION

Applicant: UniMax Electronics Inc.
15, Li-Te Rd., Beitou Dist., 112 Taipei City, Taiwan

Manufacturer: UniMax Electronics Inc.
15, Li-Te Rd., Beitou Dist., 112 Taipei City, Taiwan

Equipment Under Test: Wireless Charger Unit

Trade Name: UNIMAX

Model: GN819-01040

Date of Test: December 24 ~ 26, 2025

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15 Subpart C	Compliance
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

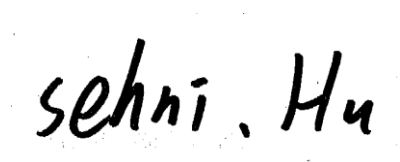
We hereby certify that:

All test results conform to above mentioned standards.

The above equipment was tested by Compliance Certification Services Inc. 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 Part15.203, Part15.207, Part15.209. Part15.215.

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

Approved by:



Sehni Hu
Supervisor



Project No: TM-2512000212P
Report No.: TMWK2512005642KR

Page 5 / 33
Rev. 02

2. EUT DESCRIPTION

Product	Wireless Charger Unit
Trade Name	UNIMAX
Model Number	GN819-01040
Model Discrepancy	N/A
Received Date	December 13, 2025
Power Supply	Power from Power Supply. (DC 12V)
Operating frequency range	127.77 kHz
Antenna Specification	Type: Coil Antenna Brand: INPAQ Model: WPC-W-P-TX-MPA10-001-B
Wireless charging power	Max to up 15W
EUT serial #	T8YUD3014119
Modulation information	TX: FSK RX: ASK
Hardware Version	R1.01
Software Version	V1.1.47

Remark:

1. For more details, refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

3. TEST SUMMARY

Standard Sec.	Chapter	Test Item	Result
15.215	7.1	20dB Bandwidth	Pass
15.209 & 15.205	7.2	Transmitter Radiated Emission	Pass
15.207	7.3	AC Power-line Conducted Emission	Not applicable
15.203	7.4	Coil Rulers and Specifications	Pass

Remark: Permanent coil antenna and an unique coupler to intentional radiator, meet the 15.203 requirement

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	47 CFR Part 15, Subpart C	ANSI C63.10-2020 Section 6.2	47 CFR Part 15, Subpart C 15.207	Not applicable
Radiated Emissions (30MHz-1GHz)		ANSI C63.10-2020 Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10-2020 Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
20dB Bandwidth		ANSI C63.10-2020 Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2020, ANSI C63.4 2014 and FCC CFR 47 Part 15.203, 15.207, 15.209, 15.215.

4.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT EXERCISE

Place a load in the wireless charging area to enable it to fix the TX frequency for measurement purposes.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.207, 15.209, 15.215 under the FCC Rules Part 15 Subpart C and ANSI C63.10-2020.

4.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in ANSI C63.10-2020, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz was using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. The EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in ANSI C63.10-2020.

4.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in other rules, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

(b) Except as provided by other rules, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



Project No: TM-2512000212P
Report No.: TMWK2512005642KR

Page 9 / 33
Rev. 02

4.5 DESCRIPTION OF TEST MODES

The EUT (model: GN819-01040) had been tested under operating condition.

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by Power Supply
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(X-Plane) were recorded in this report

5. INSTRUMENT CALIBRATION

5.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

5.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

RF Conducted Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Cable	Woken	WC12	SS01	2025-06-26	2026-06-25
Loop Antenna	COM-POWER	AL-130	121051	2025-02-18	2026-02-17
PXA Signal Analyzer	Keysight	N9030B	MY62291089	2025-09-24	2026-09-23
DC Power Source	GWINSTEK	GPC-3030D	8070184	2025-09-15	2026-09-14
Software	N/A				

966A_Radiated					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Signal Analyzer	KEYSIGHT	N9010A	MY52220817	2025-03-05	2026-03-04
Active Loop Antenna	COM-POWER	AL-130	121051	2025-02-18	2026-02-17
Thermo-Hygro Meter	HTC	HTC-1	HTC-D06	2025-05-26	2026-05-25
Bi-Log Antenna	Sunol Sciences	JB3	A030105&532	2025-06-26	2026-06-25
Preamplifier	EMEC	EM330	060609	2025-02-20	2026-02-19
Cable	Huber+Suhner	104PEA	20995+21000+182330	2025-08-06	2026-08-05
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Software	e3 V9-210616c				

Remark:

- Each piece of equipment is scheduled for calibration once a year.
- N.C.R. = No Calibration Required.

5.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	$\pm 2.37\text{dB}$
Channel Bandwidth	$\pm 2.85\text{dB}$
Radiated Emission_9kHz-30MHz	$\pm 2.750\text{ dB}$
Radiated Emission_30MHz-200MHz	$\pm 3.874\text{ dB}$
Radiated Emission_200MHz-1GHz	$\pm 4.065\text{ dB}$

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

5.4 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	-	Not applicable, because EUT not connect to AC Main Source direct.
Radiation	Tony Chao	-
Conducted	Jerry Chang	-

Remark: The lab has been recognized as the FCC accredited lab. under the KDB 974614 D01 and is listed in the FCC public Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309, MRA: APEC TEL.

6. SETUP OF EQUIPMENT UNDER TEST

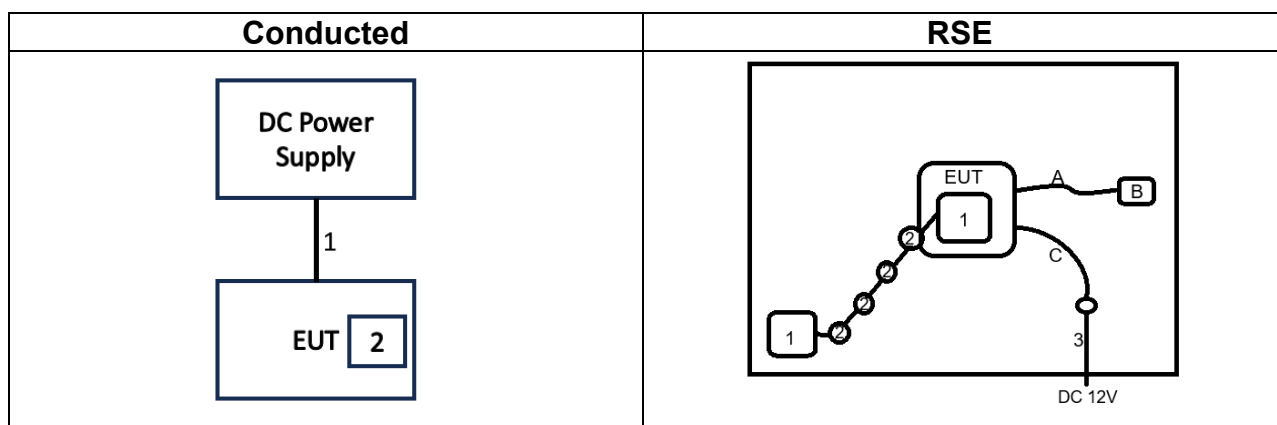
6.1 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
	N/A					

Support Equipment (Conducted)						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
1	DC Power Cable	MISUMI	MCR3S-RE	N/A	N/A	N/A
2	Test Module	EESON	F9EgHP1B	N/A	N/A	N/A

Support Equipment (RSE)						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
1	Wireless Load	ESSON	EN-2200-B	N/A	N/A	N/A
2	Core	bipolar	BF90-1	N/A	N/A	N/A
3	DC Cable	MISUMI	MCR3S-RE	N/A	N/A	N/A
A	5 Pin Cable	N/A	N/A	N/A	N/A	N/A
B	Light Board	N/A	N/A	N/A	N/A	N/A
C	Power Cable	N/A	N/A	N/A	N/A	N/A

6.2 TEST SETUP DIAGRAM



6.3 TEST PROGRAM

1. EUT power on and place the load in the sensing area to set the frequency, modulation, and power to allow the sample to continuously transmit.

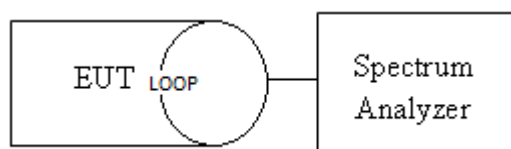
7. TEST REQUIREMENTS

7.1 20DB BANDWIDTH

Definition

According to FCC Part 15.215 (c), Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Test Configuration



TEST PROCEDURE

The Loop antenna connected to the spectrum analyzer, was touching to the transmitter antenna. Set the RBW=1% to 5% of the anticipated emission bandwidth, VBW=3*RBW, Detector = Peak, Trace mode = Max hold. Measure the maximum width of the emission that is constrained by the frequencies associated with the Occupied Bandwidth.

TEST RESULTS

Compliance

Temperature: 23.7°C

Test Date: December 24, 2025

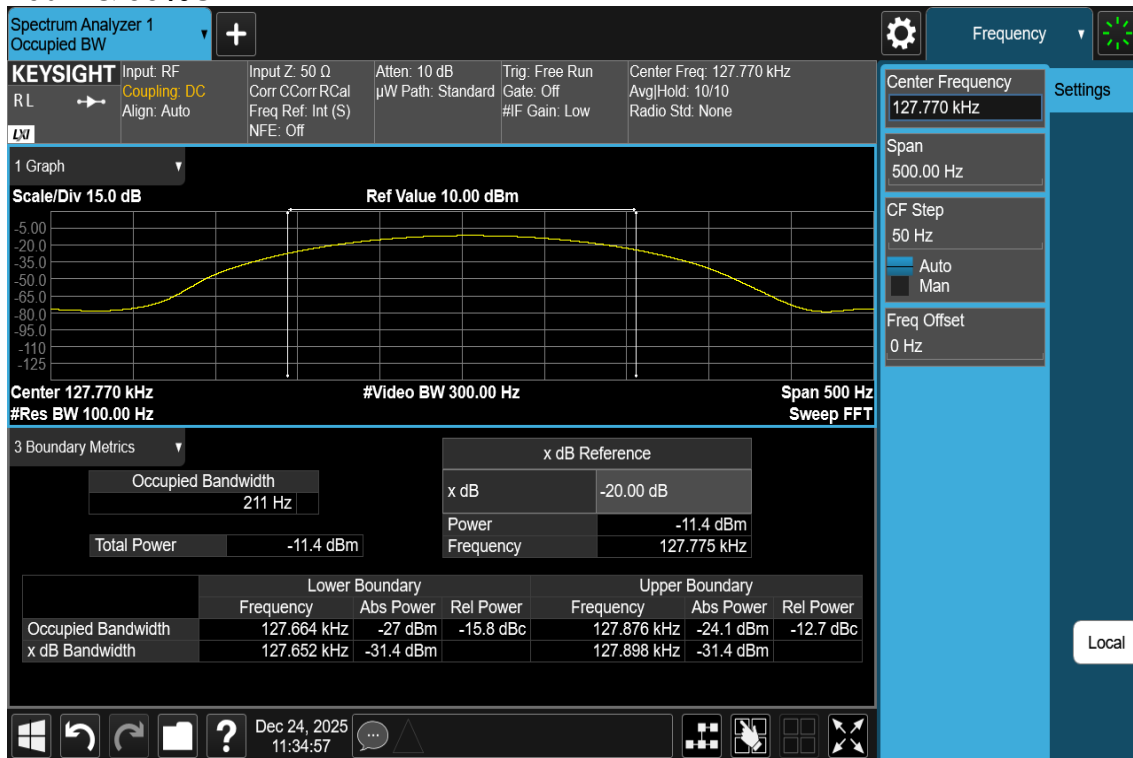
Humidity: 65% RH

Tested By: Jerry Chang

Occupied Channel Bandwidth Result						
Modulation Mode	Frequency (F _c)	99% Band-width (kHz)	F _L (kHz)	F _H BW (kHz)	F _{SL} at 20dB BW (kHz)	F _{SH} at 20dB BW (kHz)
Full charing loading	127.775	0.211	127.664	127.876	127.652	127.898
Result		Complied				

Note: Based on ANSI C63.10a-2024, the RBW configuration is between 9kHz and 30MHz, and shall not be less than 100Hz

Test Data 20dB & 99%OBW



7.2 TRANSMITTER RADIATED EMISSION

LIMIT

1. According to FCC PART 15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

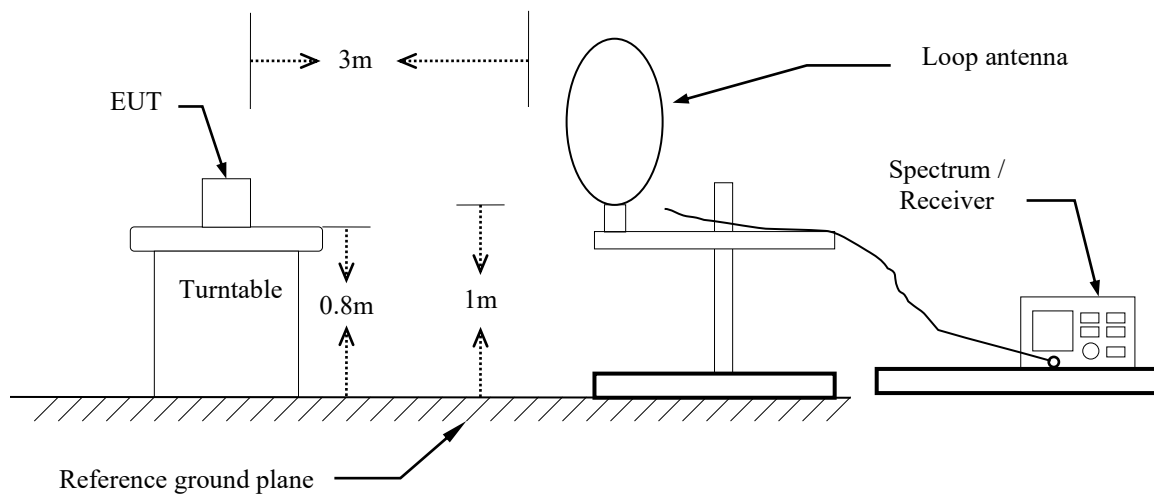
Remark: Except as provided in other rules, fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

Above 30MHz

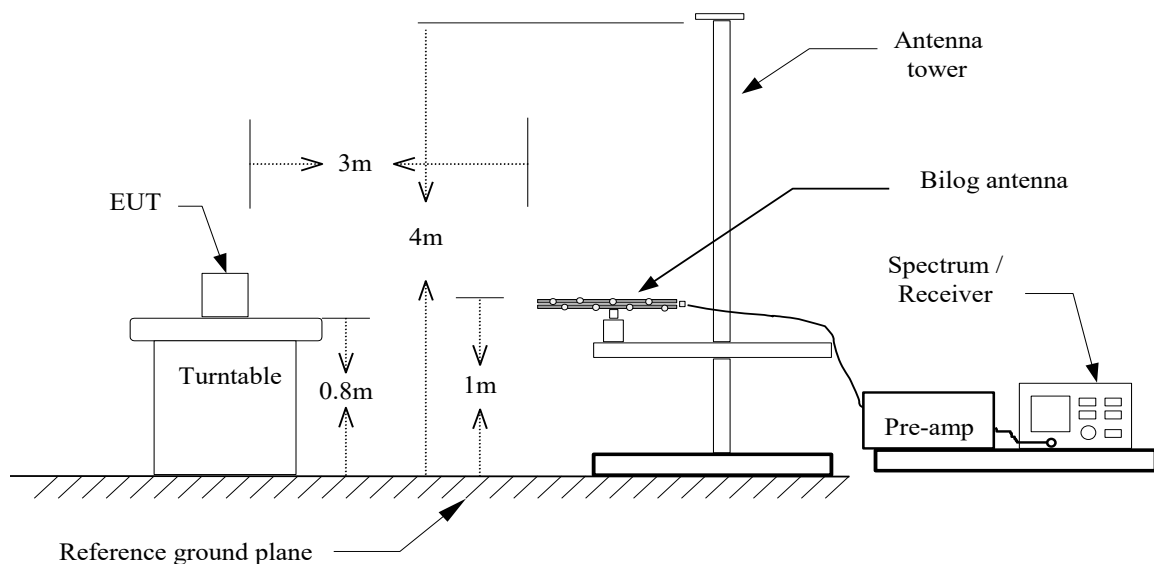
Frequency (MHz)	Field Strength		Measurement Distance (meter)
	(μV/m)	(dBμV/m)	
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Test Configuration

9kHz ~ 30MHz



30MHz ~ 1GHz



TEST PROCEDURE

For 9kHz ~ 30MHz

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both parallel, perpendicular, and ground-parallel.
6. Set the spectrum analyzer in the following setting as:

(1)

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1000 MHz	100 kHz to 120 kHz
>1000 MHz	1 MHz

(2) $VBW=3*RBW$

7. Repeat above procedures until the measurements for all frequencies are complete.
8. Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

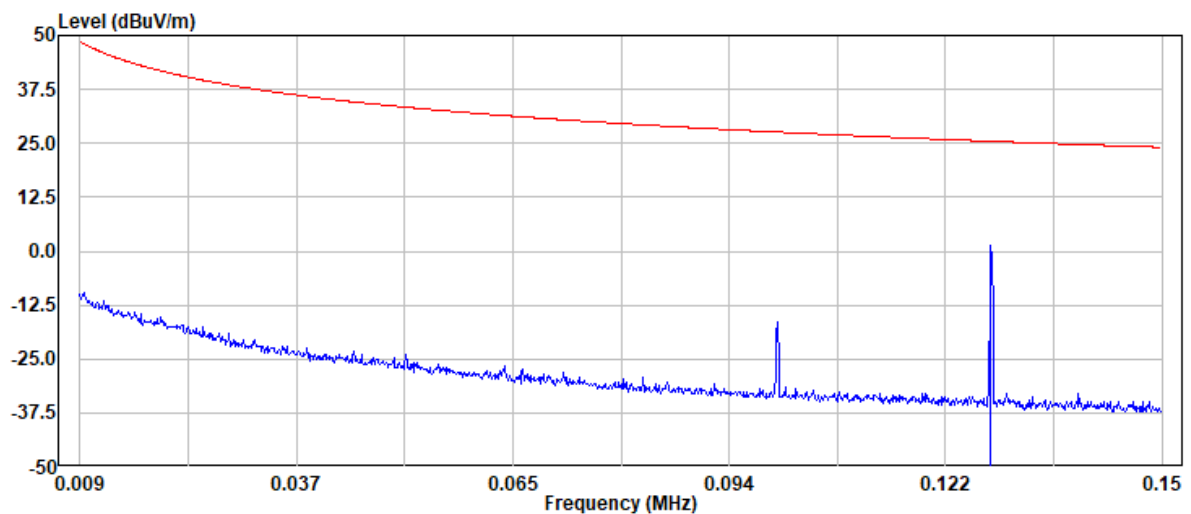
For 30MHz ~ 1GHz

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both vertical and horizontal.
6. Set the spectrum analyzer in the following setting as:
RBW=100kHz / VBW=300kHz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

Main

Project No : TM-2512000212P
Operation Band : WPC
Frequency : 127.77 KHz
Operation Mode : Main
EUT Pol : E2
Setting : 5W

Test Date : 2025-12-26
Temp./Humi. : 25.4/51
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



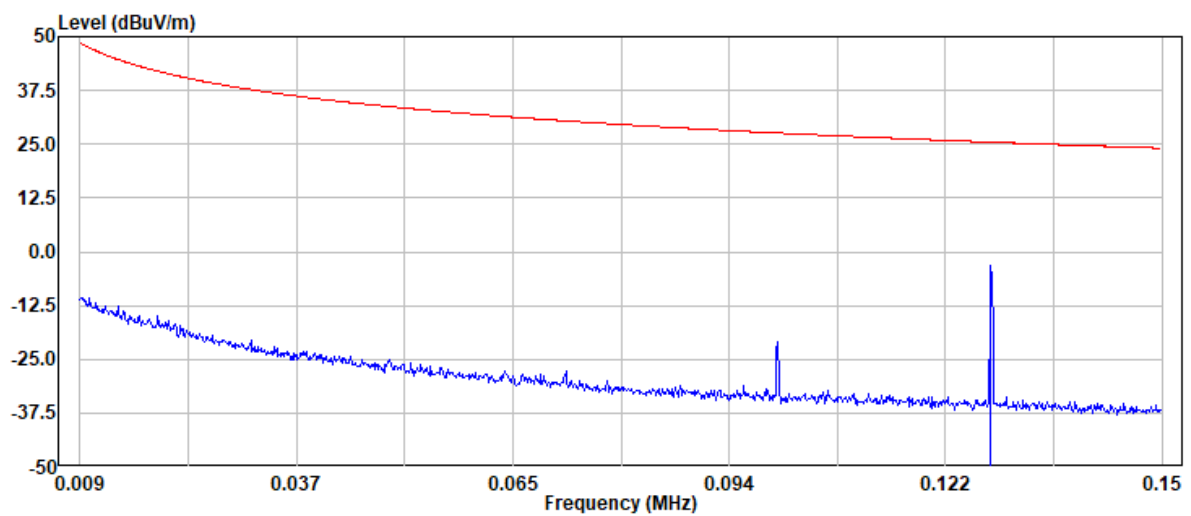
Freq	Read Level @3m	Factor @3m	Actual @3m	Factor @300m	Actual @300m	Limit	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
0.13	67.94	13.25	81.19	-80.00	1.19	25.48	-24.29	Peak

Remark:

- Factor = Antenna factor + Cable loss + Distance conversion factor
- Ant. Pol. (V/H/G): V=perpendicular, H=parallel, G=ground-parallel.
- Since the Factor included the distance conversion factor, the distance of Actual FS is 300m or 30m. (9kHz~490kHz is 300m, 490kHz~30MHz is 30m)
- Actual@30m or @300m=Read Level + factor
- Margin=Actual@30m or @300m-Limit

Project No : TM-2512000212P
Operation Band : WPC
Frequency : 127.77 KHz
Operation Mode : Main
EUT Pol : E2
Setting : 5W

Test Date : 2025-12-26
Temp./Humi. : 25.4/51
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



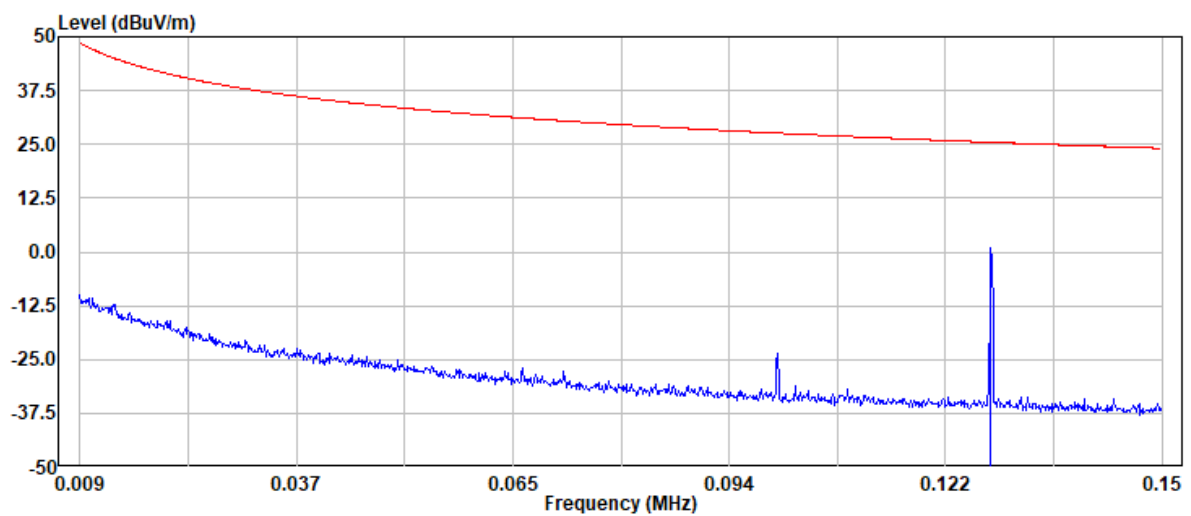
Freq	Read Level @3m	Factor @3m	Actual @3m	Factor @30m @300m	Actual @30m @300m	Limit	Margin	Detector Mode
----- MHz	----- dBuV	----- dB	----- dBuV/m	----- dB	----- dBuV/m	----- dBuV/m	----- dB	----- PK/QP/AV
0.13	63.55	13.25	76.80	-80.00	-3.20	25.48	-28.68	Peak

Remark:

- Factor = Antenna factor + Cable loss + Distance conversion factor
- Ant. Pol. (V/H/G): V=perpendicular, H=parallel, G=ground-parallel.
- Since the Factor included the distance conversion factor, the distance of Actual FS is 300m or 30m. (9kHz~490kHz is 300m, 490kHz~30MHz is 30m)
- Actual@30m or @300m=Read Level + factor
- Margin=Actual@30m or @300m-Limit

Project No : TM-2512000212P
Operation Band : WPC
Frequency : 127.77 KHz
Operation Mode : Main
EUT Pol : E2
Setting : 5W

Test Date : 2025-12-26
Temp./Humi. : 25.4/51
Antenna Pol. : Ground
Engineer : Tony.Chao
Test Chamber : 966A



Freq	Read Level @3m	Factor @3m	Actual @3m	Factor @30m @300m	Actual @30m @300m	Limit	Margin	Detector Mode
----- MHz	----- dBuV	----- dB	----- dBuV/m	----- dB	----- dBuV/m	----- dBuV/m	----- dB	----- PK/QP/AV
0.13	67.73	13.25	80.98	-80.00	0.98	25.48	-24.50	Peak

Remark:

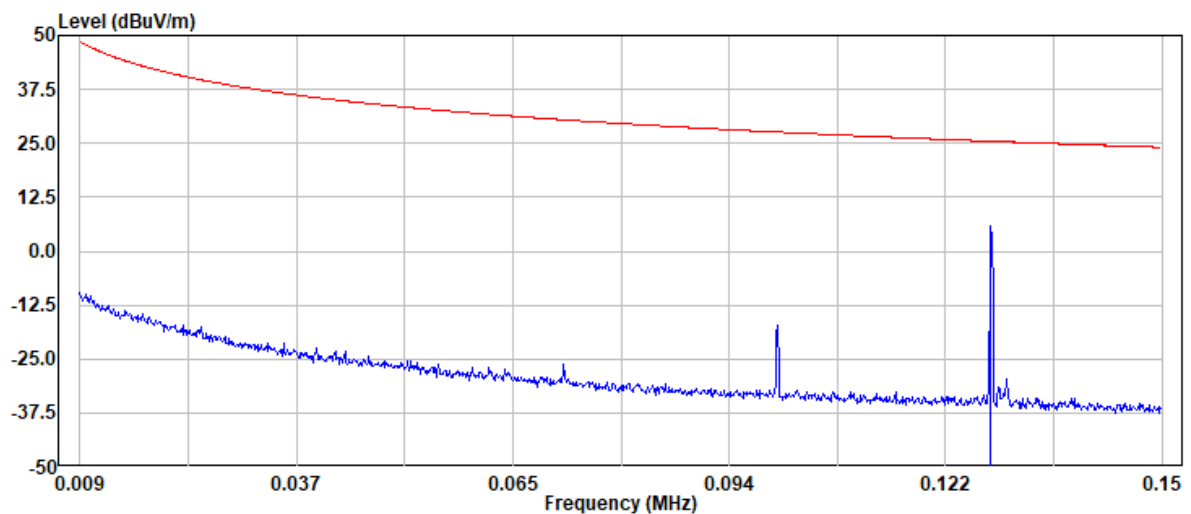
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- Actual@30m or @300m=Read Level + factor
- Margin=Actual@30m or @300m-Limit

Project No: TM-2512000212P
Report No.: TMWK2512005642KR

Page 23 / 33
Rev. 02

Project No : TM-2512000212P
Operation Band : WPC
Frequency : 127.77 KHz
Operation Mode : Main
EUT Pol : E2
Setting : 10W

Test Date : 2025-12-26
Temp./Humi. : 25.4/51
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



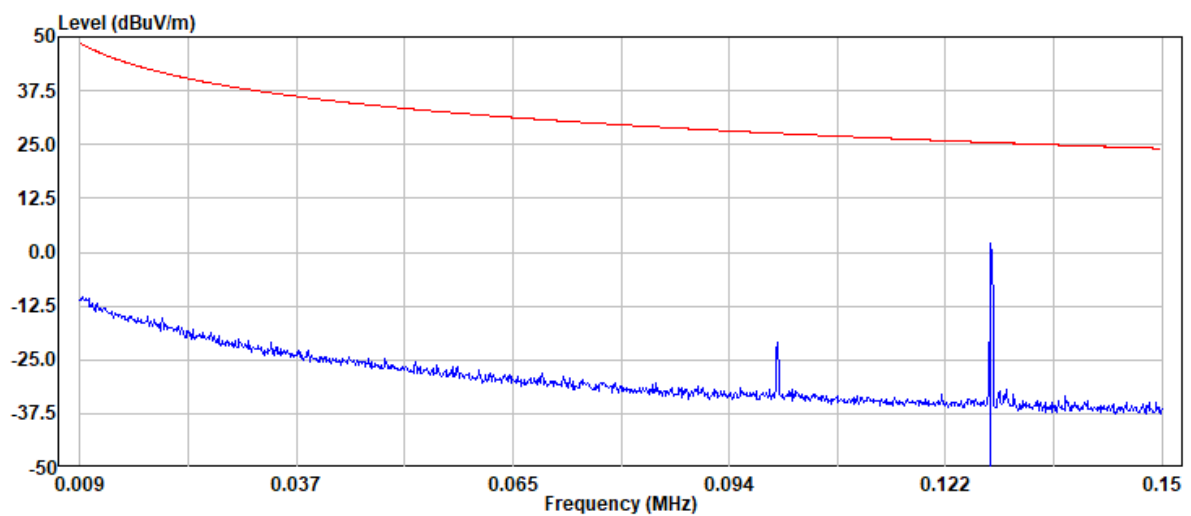
Freq	Read Level @3m	Factor @3m	Actual @3m	Factor @30m @300m	Actual @30m @300m	Limit	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
0.13	72.49	13.25	85.74	-80.00	5.74	25.48	-19.74	Peak

Remark:

- Factor = Antenna factor + Cable loss + Distance conversion factor
- Ant. Pol. (V/H/G): V=perpendicular, H=parallel, G=ground-parallel.
- Since the Factor included the distance conversion factor, the distance of Actual FS is 300m or 30m. (9kHz~490kHz is 300m, 490kHz~30MHz is 30m)
- Actual@30m or @300m=Read Level + factor
- Margin=Actual@30m or @300m-Limit

Project No : TM-2512000212P
Operation Band : WPC
Frequency : 127.77 KHz
Operation Mode : Main
EUT Pol : E2
Setting : 10W

Test Date : 2025-12-26
Temp./Humi. : 25.4/51
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



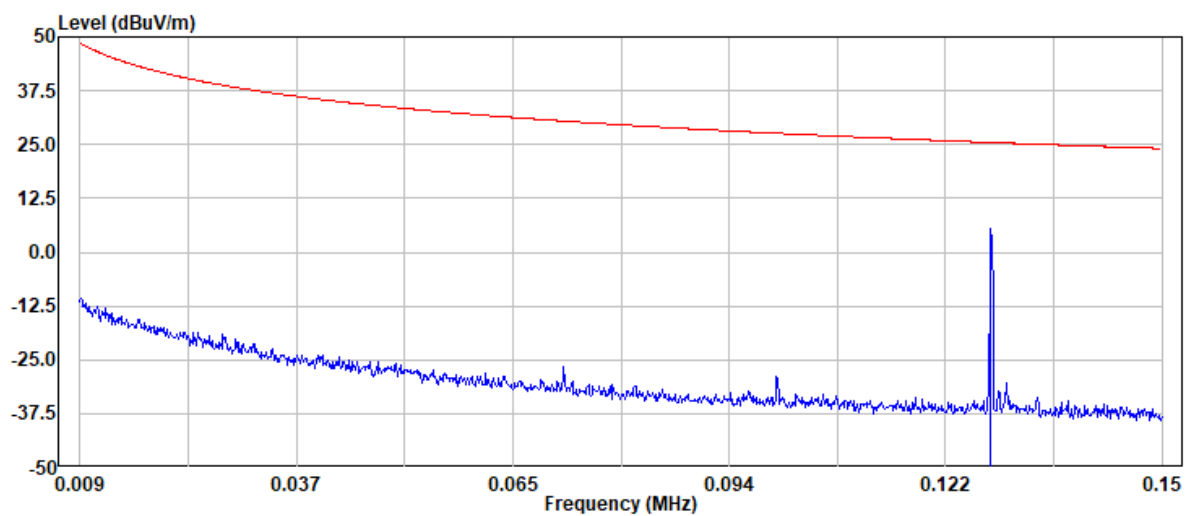
Freq	Read Level @3m	Factor @3m	Actual @3m	Factor @30m @300m	Actual @30m @300m	Limit	Margin	Detector Mode
----- MHz	----- dBuV	----- dB	----- dBuV/m	----- dB	----- dBuV/m	----- dBuV/m	----- dB	----- PK/QP/AV
0.13	68.69	13.25	81.94	-80.00	1.94	25.48	-23.54	Peak

Remark:

- Factor = Antenna factor + Cable loss + Distance conversion factor
- Ant. Pol. (V/H/G): V=perpendicular, H=parallel, G=ground-parallel.
- Since the Factor included the distance conversion factor, the distance of Actual FS is 300m or 30m. (9kHz~490kHz is 300m, 490kHz~30MHz is 30m)
- Actual@30m or @300m=Read Level + factor
- Margin=Actual@30m or @300m-Limit

Project No : TM-2512000212P
Operation Band : WPC
Frequency : 127.77 KHz
Operation Mode : Main
EUT Pol : E2
Setting : 10W

Test Date : 2025-12-26
Temp./Humi. : 25.4/51
Antenna Pol. : Ground
Engineer : Tony.Chao
Test Chamber : 966A



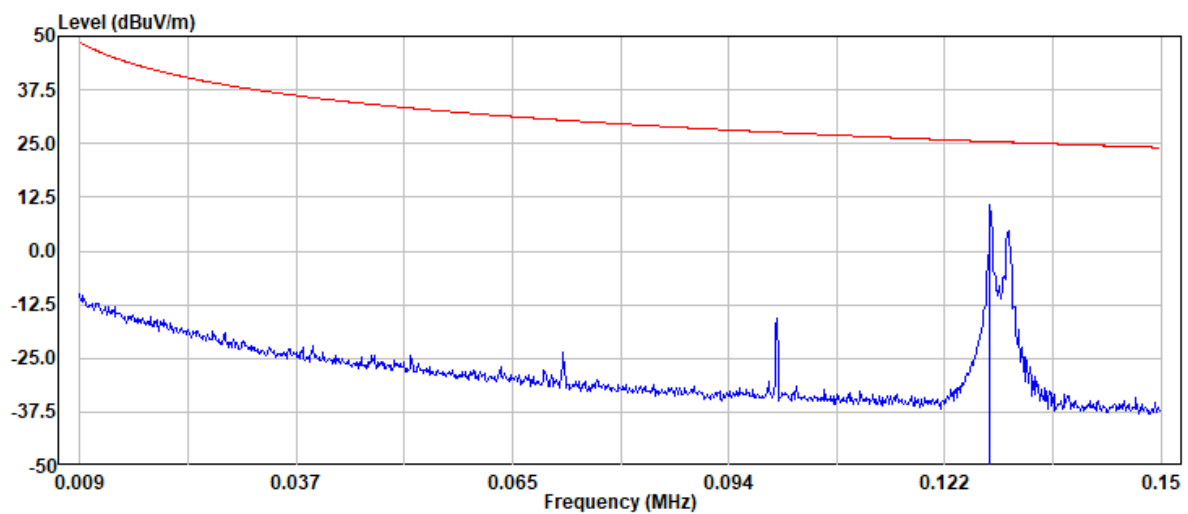
Freq	Read Level @3m	Factor @3m	Actual @3m	Factor @30m @300m	Actual @30m @300m	Limit	Margin	Detector Mode
----- MHz	----- dBuV	----- dB	----- dBuV/m	----- dB	----- dBuV/m	----- dBuV/m	----- dB	----- PK/QP/AV
0.13	72.37	13.25	85.62	-80.00	5.62	25.48	-19.86	Peak

Remark:

- Factor = Antenna factor + Cable loss + Distance conversion factor
- Ant. Pol. (V/H/G): V=perpendicular, H=parallel, G=ground-parallel.
- Since the Factor included the distance conversion factor, the distance of Actual FS is 300m or 30m. (9kHz~490kHz is 300m, 490kHz~30MHz is 30m)
- Actual@30m or @300m=Read Level + factor
- Margin=Actual@30m or @300m-Limit

Project No : TM-2512000212P
Operation Band : WPC
Frequency : 127.77 KHz
Operation Mode : Main
EUT Pol : E2
Setting : 15W

Test Date : 2025-12-26
Temp./Humi. : 25.4/51
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



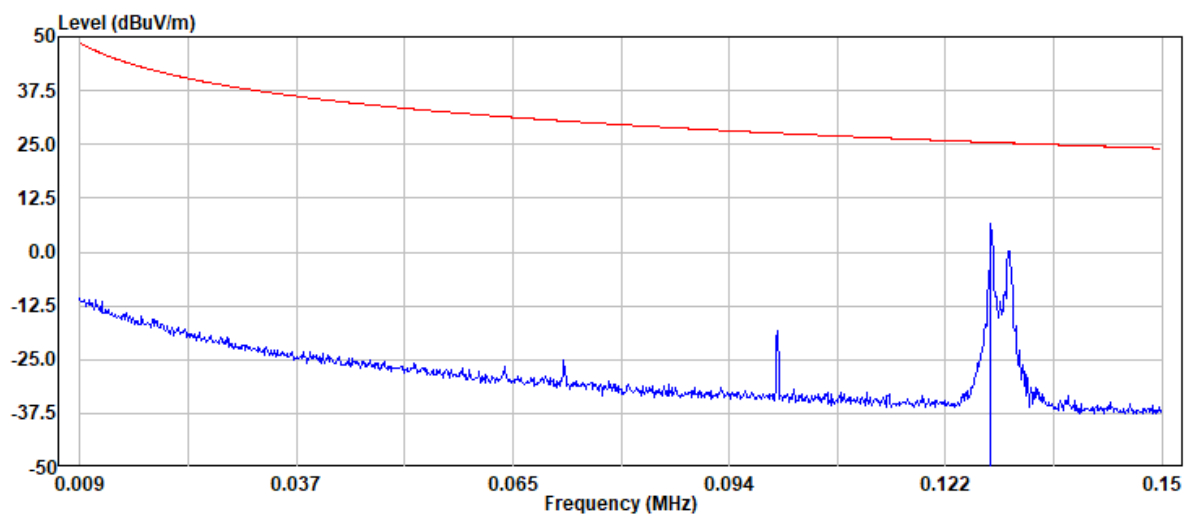
Freq	Read Level @3m	Factor @3m	Actual @3m	Factor @30m @300m	Actual @30m @300m	Limit	Margin	Detector Mode
----- MHz	----- dBuV	----- dB	----- dBuV/m	----- dB	----- dBuV/m	----- dBuV/m	----- dB	----- PK/QP/AV
0.13	77.41	13.25	90.66	-80.00	10.66	25.48	-14.82	Peak

Remark:

- Factor = Antenna factor + Cable loss + Distance conversion factor
- Ant. Pol. (V/H/G): V=perpendicular, H=parallel, G=ground-parallel.
- Since the Factor included the distance conversion factor, the distance of Actual FS is 300m or 30m. (9kHz~490kHz is 300m, 490kHz~30MHz is 30m)
- Actual@30m or @300m=Read Level + factor
- Margin=Actual@30m or @300m-Limit

Project No : TM-2512000212P
Operation Band : WPC
Frequency : 127.77 KHz
Operation Mode : Main
EUT Pol : E2
Setting : 15W

Test Date : 2025-12-26
Temp./Humi. : 25.4/51
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



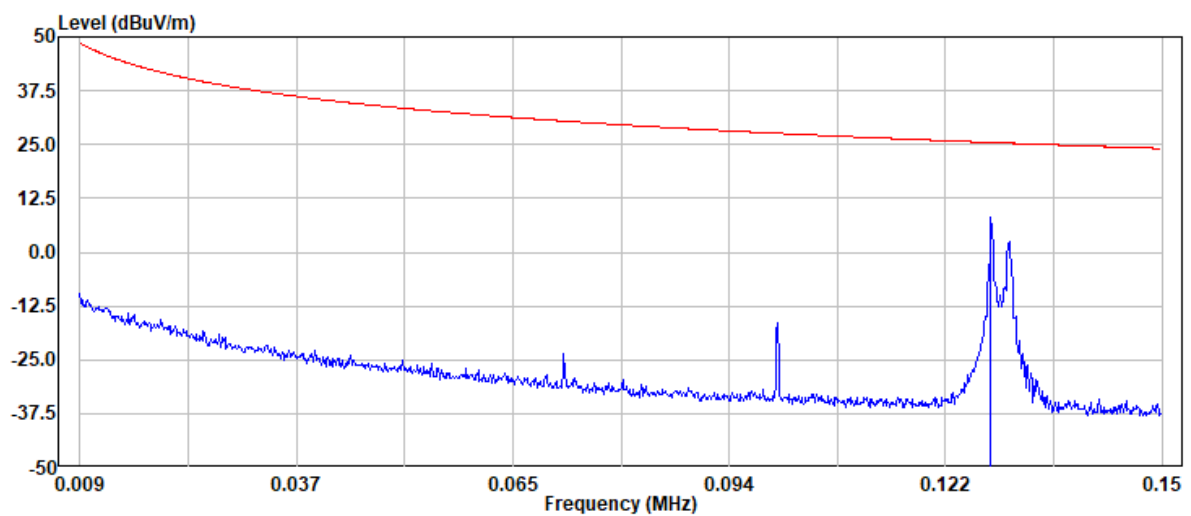
Freq	Read Level @3m	Factor @3m	Actual @3m	Factor @30m @300m	Actual @30m @300m	Limit	Margin	Detector Mode
----- MHz	----- dBuV	----- dB	----- dBuV/m	----- dB	----- dBuV/m	----- dBuV/m	----- dB	----- PK/QP/AV
0.13	73.42	13.25	86.67	-80.00	6.67	25.48	-18.81	Peak

Remark:

- Factor = Antenna factor + Cable loss + Distance conversion factor
- Ant. Pol. (V/H/G): V=perpendicular, H=parallel, G=ground-parallel.
- Since the Factor included the distance conversion factor, the distance of Actual FS is 300m or 30m. (9kHz~490kHz is 300m, 490kHz~30MHz is 30m)
- Actual@30m or @300m=Read Level + factor
- Margin=Actual@30m or @300m-Limit

Project No : TM-2512000212P
Operation Band : WPC
Frequency : 127.77 KHz
Operation Mode : Main
EUT Pol : E2
Setting : 15W

Test Date : 2025-12-26
Temp./Humi. : 25.4/51
Antenna Pol. : Ground
Engineer : Tony.Chao
Test Chamber : 966A



Freq	Read Level @3m	Factor @3m	Actual @3m	Factor @30m @300m	Actual @30m @300m	Limit	Margin	Detector Mode
----- MHz	----- dBuV	----- dB	----- dBuV/m	----- dB	----- dBuV/m	----- dBuV/m	----- dB	----- PK/QP/AV
0.13	74.87	13.25	88.12	-80.00	8.12	25.48	-17.36	Peak

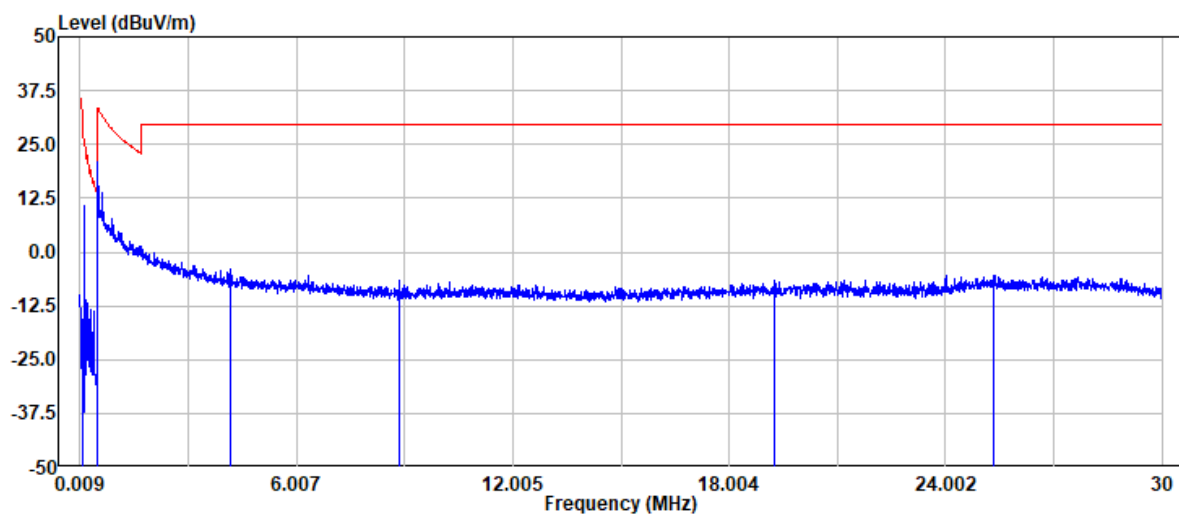
Remark:

- Factor = Antenna factor + Cable loss + Distance conversion factor
- Ant. Pol. (V/H/G): V=perpendicular, H=parallel, G=ground-parallel.
- Since the Factor included the distance conversion factor, the distance of Actual FS is 300m or 30m. (9kHz~490kHz is 300m, 490kHz~30MHz is 30m)
- Actual@30m or @300m=Read Level + factor
- Margin=Actual@30m or @300m-Limit

9 kHz – 30MHz

Project No : TM-2512000212P
Operation Band : WPC
Frequency : 127.77 KHz
Operation Mode : TX
EUT Pol : E2
Setting : 15W

Test Date : 2025-12-26
Temp./Humi. : 25.4/51
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Freq	Read Level	Factor	Actual	Factor	Actual	Limit	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
0.10	51.43	13.11	64.43	-80.00	-15.46	27.61	-43.07	Peak
0.50	47.36	13.72	61.08	-40.00	21.08	33.65	-12.57	Peak
4.20	21.14	14.93	36.07	-40.00	-3.93	29.54	-33.47	Peak
8.87	17.93	15.40	33.33	-40.00	-6.67	29.54	-36.21	Peak
19.24	16.14	17.19	33.33	-40.00	-6.67	29.54	-36.21	Peak
25.35	16.19	18.41	34.60	-40.00	-5.40	29.54	-34.94	Peak

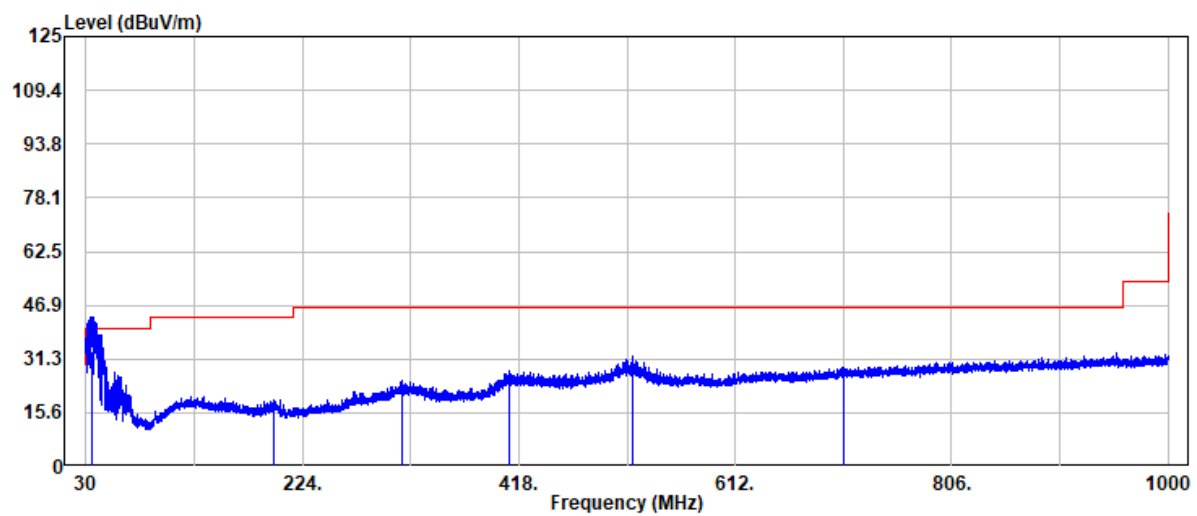
Remark:

- The frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 1GHz measurements employing a CISPR quasi-peak detector.
- For 9-90kHz, 110kHz-490kHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.
For other frequencies, the Peak value was under the Quasi-peak limit, therefore the Quasi-peak value compliance with the limit. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
- Factor = Antenna factor + Cable loss + Distance conversion factor
- Since the Factor included the distance conversion factor, the distance of Actual FS is 300m or 30m. (9kHz~490kHz is 300m, 490kHz~30MHz is 30m)
- The worst receiver antenna pol. is horizontal.
- Actual@30m or @300m=Read Level + factor
- Margin=Actual@30m or @300m-Limit

Below 1 GHz

Project No : TM-2512000212P
Operation Band : WPC
Frequency : 127.77 KHz
Operation Mode : TX
EUT Pol : E2
Setting : 15W

Test Date : 2025-12-26
Temp./Humi. : 25.4/51
Antenna Pol. : VERTICAL
Engineer : Tony.Chao
Test Chamber : 966A



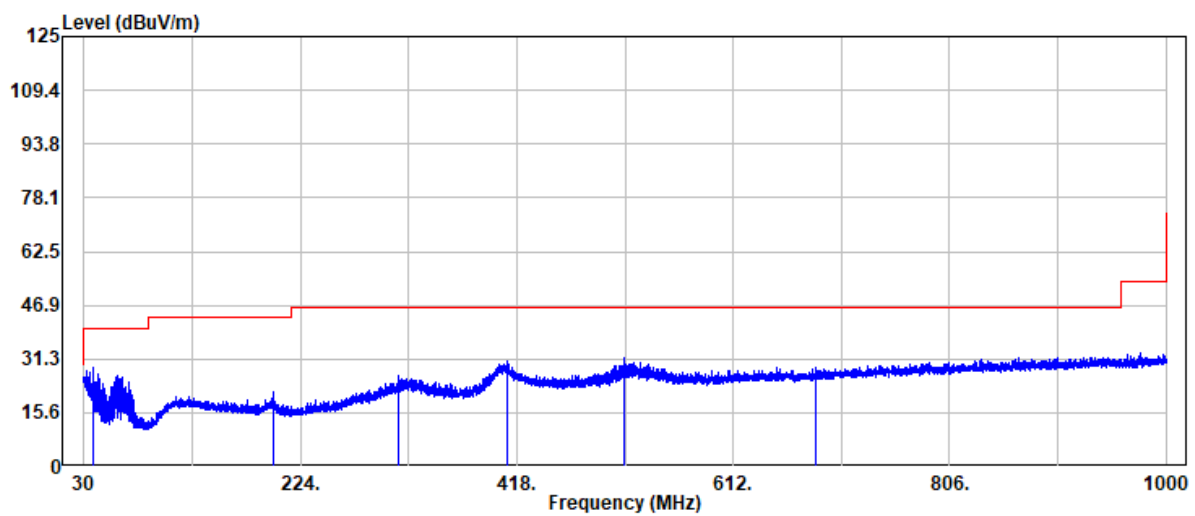
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
35.10	39.81	-6.44	33.37	40.00	-6.63	QP
198.80	29.86	-10.38	19.48	43.50	-24.02	Peak
312.70	33.90	-9.01	24.89	46.00	-21.11	Peak
409.40	34.07	-6.44	27.63	46.00	-18.37	Peak
519.80	36.36	-4.26	32.10	46.00	-13.90	Peak
709.50	29.85	-0.90	28.95	46.00	-17.05	Peak

Remark:

- Factor = Antenna factor + Cable loss – Amp gain
- Actual=Read Level + factor
- Margin=Actual FS -Limit

Project No : TM-2512000212P
Operation Band : WPC
Frequency : 127.77 KHz
Operation Mode : TX
EUT Pol : E2
Setting : 15W

Test Date : 2025-12-26
Temp./Humi. : 25.4/51
Antenna Pol. : HORIZONTAL
Engineer : Tony.Chao
Test Chamber : 966A



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
38.40	37.61	-8.97	28.64	40.00	-11.36	Peak
200.00	31.87	-10.23	21.64	43.50	-21.86	Peak
311.80	35.28	-9.02	26.26	46.00	-19.74	Peak
409.80	37.29	-6.43	30.86	46.00	-15.14	Peak
514.30	35.73	-4.33	31.40	46.00	-14.60	Peak
686.10	30.42	-1.53	28.89	46.00	-17.11	Peak

Remark:

- Factor = Antenna factor + Cable loss – Amp gain
- Actual=Read Level + factor
- Margin=Actual FS -Limit

7.3 AC POWER-LINE CONDUCTED EMISSION

LIMIT

According to §15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, 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, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

Test Configuration

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

Compliance.

TEST DATA

Not applicable, because EUT not connect to AC Main Source direct.



Project No: TM-2512000212P
Report No.: TMWK2512005642KR

Page 33 / 33
Rev. 02

7.4 COIL RULERS AND SPECIFICATIONS

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Type	Coil Antenna
Brand / Model	Brand: INPAQ Model: WPC-W-P-TX-MPA10-001-B

Remark:

1.The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203.

- End of Test Report -