



Test report No: 2480875R-E3012210001-A

## FCC TEST REPORT

Product Name	Peplink Pepwave Wireless Product
Trademark	 <b>PEPWAVE</b>
Model and /or type reference	POTS Adapter POTS-ADP-LTE-US-T-PRM POTS-ADP-LTE-US-DC-T-PRM
FCC ID	U8G-P1PHONE9207
Applicant's name / address	PISMO LABS TECHNOLOGY LIMITED A8, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Hong Kong
Manufacturer's name / address	PISMO LABS TECHNOLOGY LIMITED A8, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Hong Kong
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart B:2023, Class B
Verdict Summary	IN COMPLIANCE
Documented By (Senior Adm. Specialist / Anny Chou)	Anny Chou
Approved By (Director / Vincent Lin)	
Date of Report	2024/08/29
Date of Issue	2024/10/08
Report No.	2480875R-E3012210001-A
Report Version	V1.0

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Test Photos: Please refer to the file: 2480875R-E3012210001-A Test Photos

Product Photos: Please refer to the file: 2480875R-Product Photos

## Competences and Guarantees

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DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

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The results presented in this Test Report apply only to the particular item under test established in this document.

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## General conditions

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1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

## Revision History

Report No.	Version	Description	Issued Date
2480875R-E3012210001-A	V1.0	Initial issue of report.	2024-10-08

## 1. General Information

### 1.1. EUT Description

Product Name	Peplink Pepwave Wireless Product	
Trademark	 <b>PEPWAVE</b>	
Model No.	POTS Adapter POTS-ADP-LTE-US-T-PRM POTS-ADP-LTE-US-DC-T-PRM	
EUT Max. Frequency	1910 MHz	
EUT Rated Voltage	Power Port	9-16V DC
	USB-C Port	5V DC
EUT Test Voltage (Final Test mode)	AC 120V / 60Hz to DC 12V (AC Adapter)	

Component	
Cellular Antenna	MFR: Master Wave M/N: 98619ZSAX053 Antenna Type: omni directional
Adapter	MFR: Zhuzhou Dachuan Electronic Technology Co., Ltd. M/N: DCT24W120200US-E0 Input: 100- 240Vac, 50/60Hz, 0.7A max. Output: 12.0Vdc, 2.0A

#### Note:

1. This report was based on DEKRA report No.: 23A0506R-E3012110001-A.
2. The difference is adding GPIO interface and two e-SIM.
3. The EUT is available in different model names for marketing purposes.

## 1.2. Mode of Operation

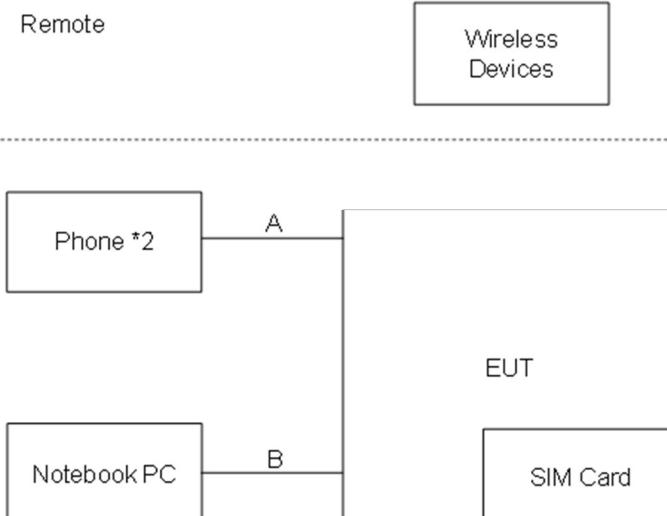
DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode (Conducted Emission)	
Mode 1:	Normal Operation(Phone + USB Type C + WWAN LTE B2 Link + eSIM: MFXS-A028a-MFOCMW), Molex Power Port, DC 12V By Adapter: DCT24W120200US-E0
Mode 2:	Normal Operation(Phone + USB Type C + WWAN LTE B2 Link + eSIM: WP68-M002C-MFOCMW), Molex Power Port, DC 12V By Adapter: DCT24W120200US-E0
Mode 3:	Normal Operation(Phone + USB Type C + WWAN LTE B2 Link + eSIM: MFXS-M006B-MFOCMW), Molex Power Port, DC 12V By Adapter: DCT24W120200US-E0
Mode 4:	Normal Operation(Phone + USB Type C + WWAN LTE B2 Link + eSIM: MFXS-M006B-MFOCMW), USB Type C port, DC 5V By PC
Pre-Test Mode (Radiated Emission)	
Mode 1:	Normal Operation(Phone + USB Type C + WWAN LTE B2 Link + eSIM: MFXS-A028a-MFOCMW), Molex Power Port, DC 12V By Adapter: DCT24W120200US-E0
Mode 2:	Normal Operation(Phone + USB Type C + WWAN LTE B2 Link + eSIM: WP68-M002C-MFOCMW), Molex Power Port, DC 12V By Adapter: DCT24W120200US-E0
Mode 3:	Normal Operation(Phone + USB Type C + WWAN LTE B2 Link + eSIM: MFXS-M006B-MFOCMW), Molex Power Port, DC 12V By Adapter: DCT24W120200US-E0
Mode 4:	Normal Operation(Phone + USB Type C + WWAN LTE B2 Link + eSIM: MFXS-M006B-MFOCMW), Molex Power Port, DC 9V
Mode 5:	Normal Operation(Phone + USB Type C + WWAN LTE B2 Link + eSIM: MFXS-M006B-MFOCMW), Molex Power Port, DC 16V
Mode 6:	Normal Operation(Phone + USB Type C + WWAN LTE B2 Link + eSIM: MFXS-M006B-MFOCMW), USB Type C port, DC 5V By PC
Final Test Mode	
Emission	Mode 3

Note:

1. Refer to Certified Cellular module report worst band to test.

### 1.3. Configuration & Details of Tested System

Connection Diagram				
				
Tested System Details				
Product	Manufacturer	Model No.	No.	Cable Type & Description
Phone*2	WONDER	WD-303	A	RJ11 *2, non-shielded 1.5m
Notebook PC	Lenovo	TP00116D	B	USB-C, Shielded 1.0m
SIM Card	N/A	N/A		
Wireless Devices Inf.				
Product	Manufacturer		Model No.	
Base Station	R&S		CMW500	

Note:

- Use Full system setup configuration determines Worst-Case Mode.
- Use 2dB law program determines Max. Cable Configuration and Worst-Case Mode.
- Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth to 3m from the EUT size sufficient to cover the procedure.
- Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth non 3m distance sufficient to cover the size of the EUT program.

#### **1.4. EUT Exercise Software**

1	Setup the EUT and simulators as shown on 1.3.
2	Turn on the power of all equipment.
3	All the features of the EUT operation normally.

## 2. Technical Test

### 2.1. Summary of Test Result

No deviations from the test standards  
 Deviations from the test standards as below description:

Emission				
Performed Item	Normative References	Test Performed	Test Site	Verdict
Conducted Emission (Class B)	FCC CFR Title 47 Part 15 Subpart B:2023	Yes	HY-SR09	Pass
Radiated Emission (Class B)	FCC CFR Title 47 Part 15 Subpart B:2023	Yes	HY-CB05	Pass

Note:

1. Test Site information refers to test Laboratory Information.
2. The test facility, measurement instrumentation and measurement methods used for verifying the compliance of ITE or digital apparatus with FCC CFR Title 47 Part 15 Subpart B shall comply either with the requirements in ANSI C63.4.

Test Laboratory:	DEKRA Testing and Certification Co., Ltd. Linkou Laboratory
Address:	No.5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan, R.O.C
Phone number:	+886-2-8601-3788
Fax number:	+886-2-8601-3789
Test Site	
LK: No.5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan, R.O.C	
FS: No.6, Lane 75, Wenlin St., Linkou Dist., New Taipei City, 244017, Taiwan, R.O.C No. 85, Wenlin St., Linkou Dist., New Taipei City, 244017, Taiwan, R.O.C	
HY: No.26, Huaya 1 st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C	

## 2.2. List of Test Equipment

### Conducted Emission / HY-SR09

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Due Date
EMI TEST RECEIVER	R&S	ESR3	102917	2023/12/4	2024/12/3
Two-Line V-Network	R&S	ENV216	101493	2023/12/1	2024/11/30
Two-Line V-Network	R&S	ENV216	101492	2023/12/12	2024/12/11
Impedance Stabilization Network	TESEQ	ISN T800	61676	2024/6/5	2025/6/4
Impedance Stabilization Network	TESEQ	ISN T8-Cat6	61286	2024/6/18	2025/6/17
Impedance Stabilization Network	TESEQ	ISN ST08	61833	2024/6/19	2025/6/18
Coaxial Cable	SUHNER	RG 400	HC001-RG	2024/5/30	2025/5/29
Note : ISN T800 for LAN 10Mbps to 1Gbps, T8-Cat6 for LAN above 1Gbps, ST08 for Shielded LAN					
Test Software version : e3 V9					

**Note: Test Receiver Detector: Quasipeak and Average Bandwidth:9kHz**

### Radiated Emission (Below 1GHz) / HY-CB05

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Due Date
Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	1299	2023/11/22	2024/11/21
EMI Test Receiver	R&S	ESR7	102502	2024/4/23	2025/4/22
Coaxial Cable	ROSNOL	R-Test EW0630	HC003R	2024/6/18	2025/6/17
Coaxial Cable	VEGINEAN	VCA-VA500	HQ003C	2024/6/18	2025/6/17
Preamplifier	SGH	SGH0301-P	20220411-1	2024/6/25	2025/6/24
NSA	DEKRA	N/A	N/A	2024/8/23	2025/8/22
Test Software version : e3 V9					

**Note: Test Receiver Detector: Quasipeak Bandwidth:120kHz**

### Radiated Emission (Above 1GHz) / HY-CB05

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Due Date
Double Ridged Guide Horn Antenna	RF SPIN	DRH18-E	210504A18ES	2024/4/25	2025/4/24
Horn Antenna	COM-POWER	AH-840	101088	2023/10/4	2024/10/3
EMI Test Receiver	R&S	ESR7	102502	2024/4/23	2025/4/22
Signal Analyzer	R&S	FSV3044	101245	2024/4/15	2025/4/14
Coaxial Cable	ROSNOL	R-Test EW0630	HC002R	2024/6/18	2025/6/17
Coaxial Cable	ROSNOL	R-Test EW0630	HC003R	2024/6/18	2025/6/17
Coaxial Cable	VEGINEAN	VCA-VA500	HQ003C	2024/6/18	2025/6/17
Preamplifier	SGH	SGH118-HS	20220411-2	2024/4/18	2025/4/17
Microwave Preamplifier with cable	SGH	SGH184	20220411-3	2024/4/18	2025/4/17
VSWR	DEKRA	N/A	N/A	2024/8/22	2025/8/21
Test Software version : e3 V9					

### 2.3. Measurement Uncertainty

Test Items	Uncertainty
Conducted Emission	± 2.40 dB
Radiated Emission (Below 1GHz)	± 5.50 dB
Radiated Emission (Above 1GHz)	± 4.70 dB

## 2.4. Test Environment

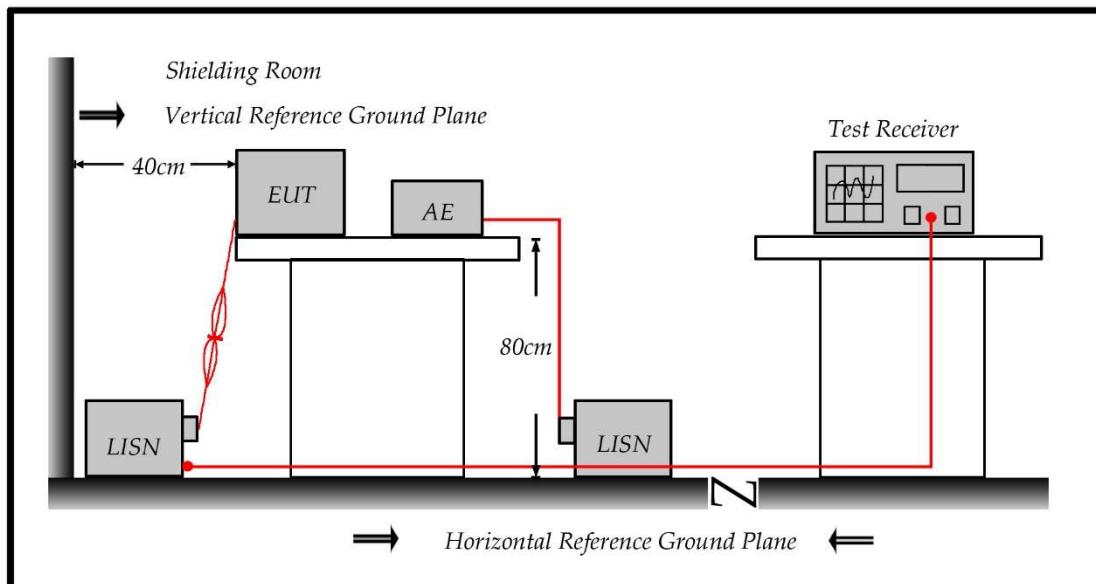
Performed Item	Items	Required
Conducted Emission	Temperature (°C)	10-40
	Humidity (%RH)	10-90
Radiated Emission	Temperature (°C)	10-40
	Humidity (%RH)	10-90

### 3. Conducted Emission

#### 3.1. Test Specifications

According to Standard : FCC Part 15 Subpart B & CISPR 22

#### 3.2. Test Setup



#### 3.3. Limit

Conducted emissions limits (AC mains power terminals)				
Frequency range (MHz)	Class A Quasi-peak (dB $\mu$ V)	Class A Average (dB $\mu$ V)	Class B Quasi-peak (dB $\mu$ V)	Class B Average (dB $\mu$ V)
0.15 - 0.5	79	66	66 to 56	56 to 46
0.5 - 5	73	60	56	46
5 - 30	73	60	60	50

**Note:**

1. The more stringent limit applies at transition frequencies.
2. The limit level in dB $\mu$ V decreases linearly with the logarithm of frequency

### 3.4. Test Procedure

The EUT 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.

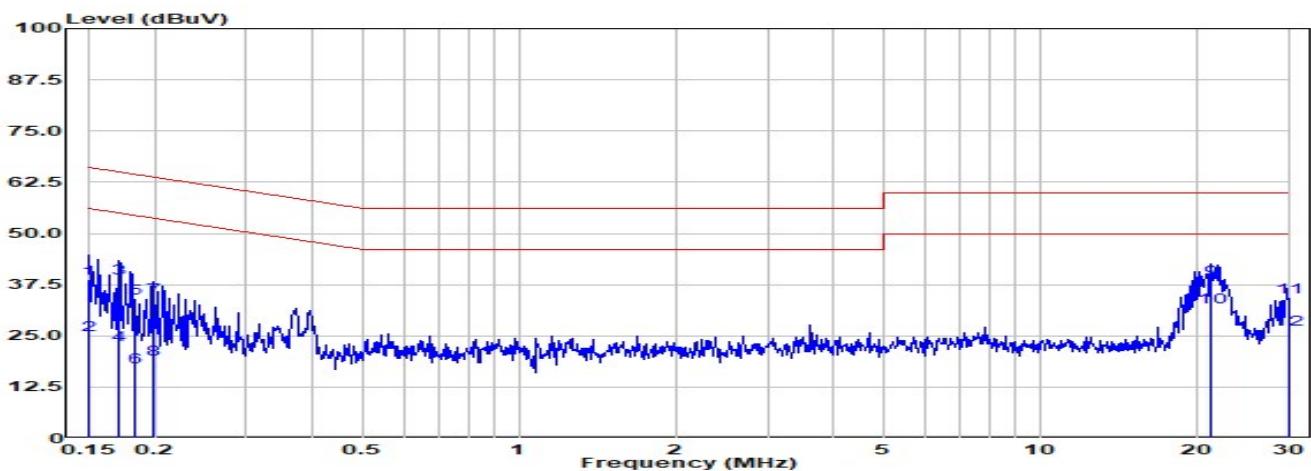
(Please refers to the block diagram of the test setup and photographs.)

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 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

### 3.5. Test Result

Model No	POTS Adapter	Site	HY-SR09
Test Voltage	AC 120V/60Hz	Test Date	2024-09-11
Test Mode	Mode 3	Engineer	Monica Wu
Phase	Line	Temperature (°C)	26
Test Condition	--	Humidity (%RH)	47

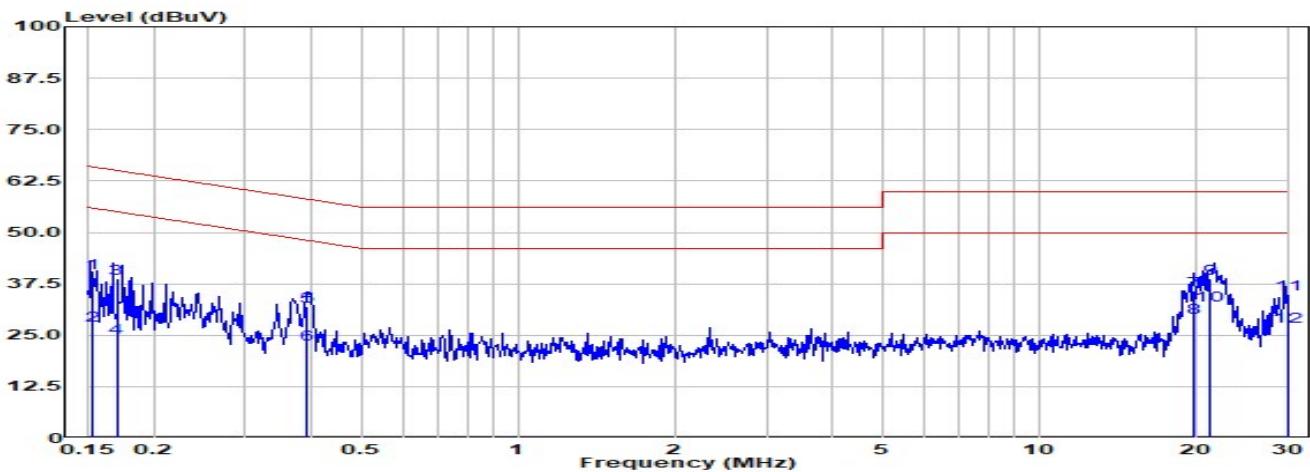


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.150	38.88	65.99	-27.12	29.28	9.60	QP
2	0.150	25.08	55.99	-30.91	15.48	9.60	Average
3	0.170	38.90	64.95	-26.05	29.29	9.61	QP
4	0.170	22.67	54.95	-32.27	13.07	9.61	Average
5	0.183	34.10	64.33	-30.23	24.49	9.61	QP
6	0.183	17.26	54.33	-37.07	7.66	9.61	Average
7	0.198	34.40	63.70	-29.30	24.79	9.61	QP
8	0.198	19.11	53.70	-34.60	9.49	9.61	Average
9	21.230	38.65	60.00	-21.35	28.39	10.26	QP
10	21.230	31.96	50.00	-18.04	21.70	10.26	Average
11	29.990	34.39	60.00	-25.61	23.97	10.42	QP
12	29.990	26.65	50.00	-23.35	16.23	10.42	Average

#### Remark:

- \*\* means this data is the worst margin; ! means this data is over limit.
- Emission Level=Reading Level + Correct Factor (Correct Factor=LISN Factor+Cable Loss).
- Margin=Emission Level-Limit

Model No	POTS Adapter	Site	HY-SR09
Test Voltage	AC 120V/60Hz	Test Date	2024-09-11
Test Mode	Mode 3	Engineer	Monica Wu
Phase	Neutral	Temperature (°C)	26
Test Condition	--	Humidity (%RH)	47



No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.152	40.14	65.89	-25.75	30.50	9.64	QP
2	0.152	27.44	55.89	-28.45	17.80	9.64	Average
3	0.170	38.86	64.98	-26.12	29.22	9.64	QP
4	0.170	24.46	54.98	-30.51	14.82	9.64	Average
5	0.393	32.00	58.00	-26.00	22.35	9.65	QP
6	0.393	22.66	48.00	-25.34	13.01	9.65	Average
7	19.839	35.89	60.00	-24.11	25.49	10.41	QP
8	19.839	29.39	50.00	-20.61	18.99	10.41	Average
9	21.208	38.69	60.00	-21.31	28.26	10.43	QP
10	21.208	32.26	50.00	-17.74	21.83	10.43	Average
11	29.990	35.05	60.00	-24.95	24.49	10.56	QP
12	29.990	27.14	50.00	-22.86	16.58	10.56	Average

## Remark:

- \*\* means this data is the worst margin; ! means this data is over limit.
- Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
- Margin=Emission Level-Limit

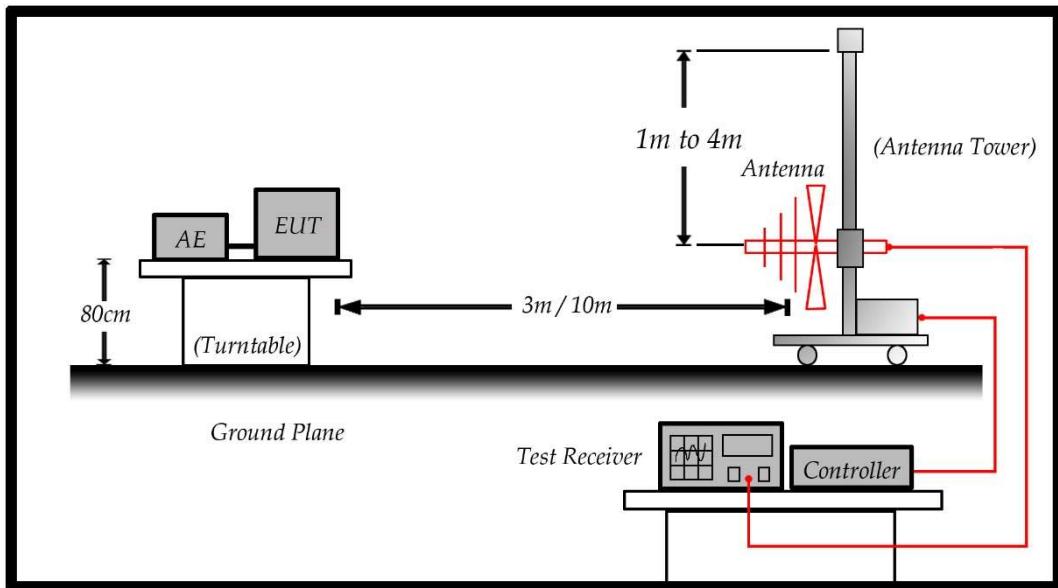
## 4. Radiated Emission

### 4.1. Test Specification

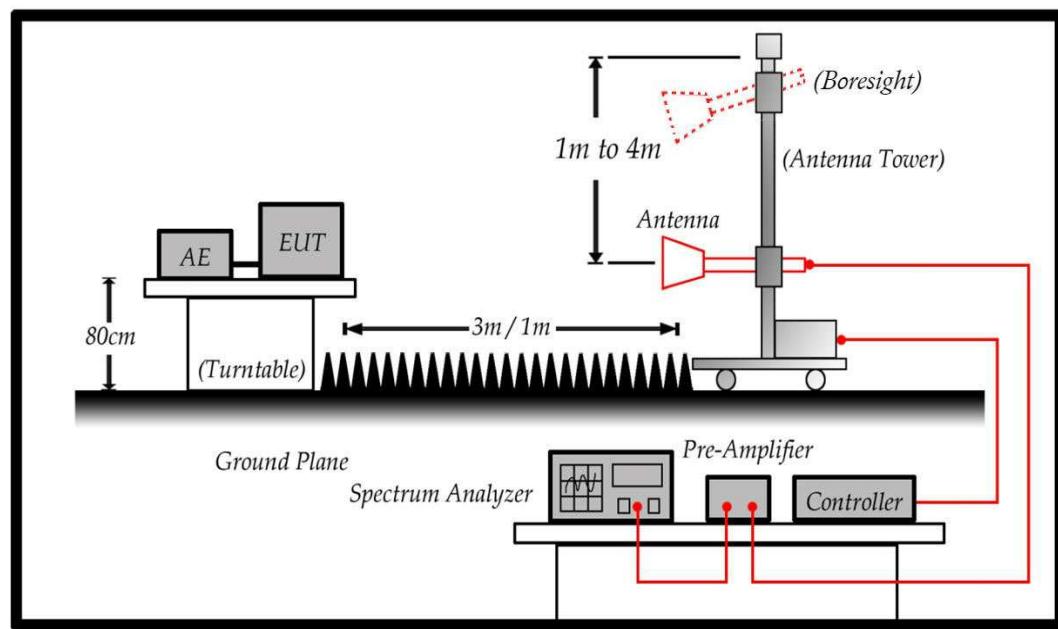
According to Standard : FCC Part 15 Subpart B & CISPR 22

### 4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



#### 4.3. Limit

Under 1GHz test shall not exceed the following value:

Limits		
Frequency (MHz)	Distance (m)	dBuV/m
30 – 230	10	30
230 – 1000	10	37

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Above 1GHz test shall not exceed the following value:

FCC Part 15 Subpart B Paragraph 15.109 Limits (dBuV/m)		
Frequency (MHz)	Distance (m)	dBuV/m
30-88	3	40
88-216	3	43.5
216-960	3	46.0
960-1000	3	54
1000-40000	3	54
18000-40000	1	63.5

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. RF Voltage (dBuV/m) =  $20 \log_{10}$  RF Voltage (uV/m)

#### 4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna (boresight antenna tower) can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000MHz, the radiated limits shown are based on measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

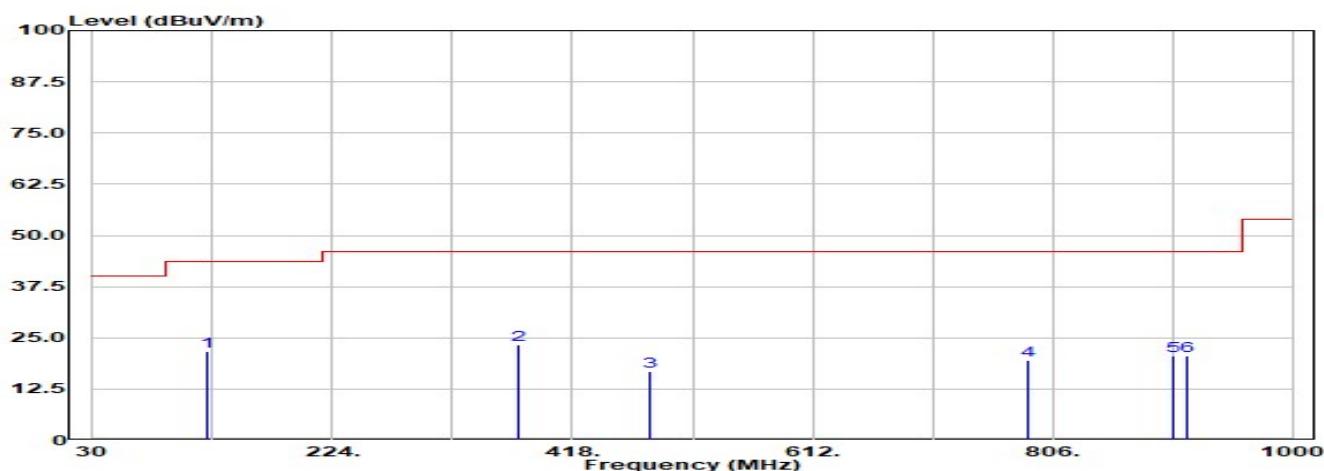
For class A, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and above 1GHz.

For class B, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (Test Receiver) is 120 kHz and above 1GHz is 1MHz.

#### 4.5. Test Result

Model No	POTS Adapter	Site	HY-CB05
Test Voltage	AC 120V/60Hz	Test Date	2024-09-11
Test Mode	Mode 3	Engineer	Monica Wu
Polarity	Horizontal	Temperature (°C)	24
Test Condition	--	Humidity (%RH)	48

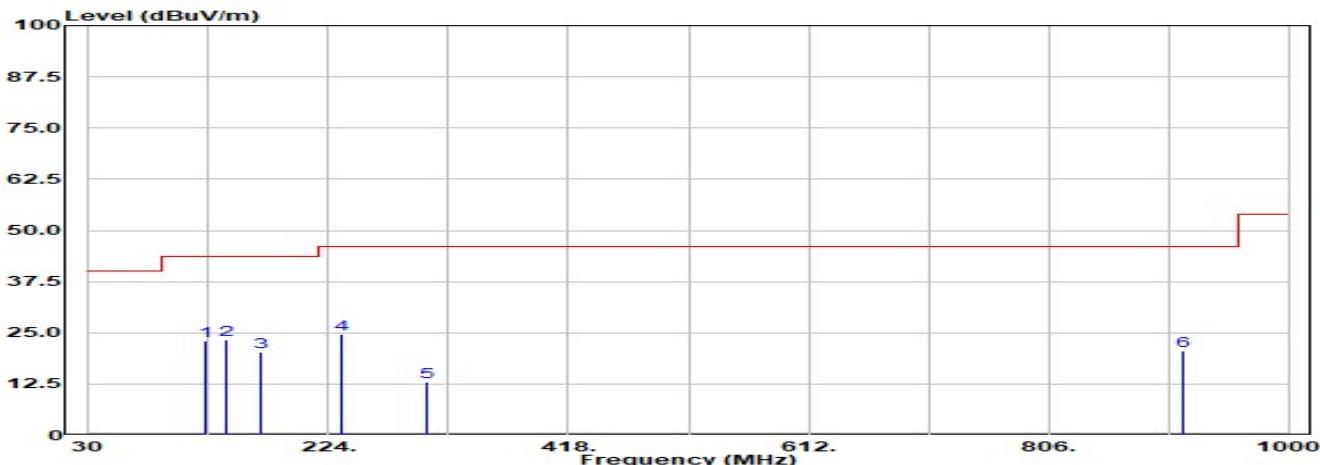


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	123.120	21.59	43.50	-21.91	47.10	-25.51	300	275	QP
2	374.350	23.27	46.00	-22.73	43.80	-20.53	100	332	QP
3	480.080	16.89	46.00	-29.11	34.50	-17.61	100	360	QP
4	786.600	19.61	46.00	-26.39	31.40	-11.79	100	325	QP
5	903.000	20.63	46.00	-25.37	31.30	-10.67	100	157	QP
6	915.610	20.61	46.00	-25.39	31.20	-10.59	300	72	QP

##### Remark:

- \*\*\* means this data is the worst margin; ! means this data is over limit.
- Emission Level=Reading Level + Correct Factor (Correct Factor=Ant Factor+Cable Loss-Pre Amp).
- Margin=Emission Level - Limit.
- The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.

Model No	POTS Adapter	Site	HY-CB05
Test Voltage	AC 120V/60Hz	Test Date	2024-09-11
Test Mode	Mode 3	Engineer	Monica Wu
Polarity	Vertical	Temperature (°C)	24
Test Condition	--	Humidity (%RH)	48

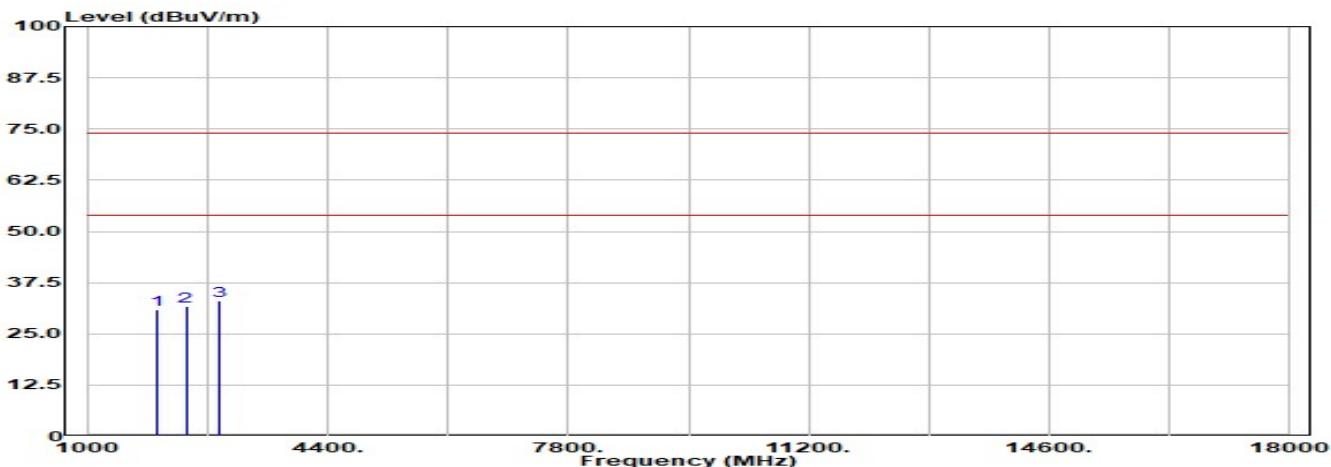


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	125.060	23.01	43.50	-20.49	48.30	-25.29	100	4	QP
2	141.550	23.44	43.50	-20.06	47.10	-23.66	100	0	QP
3	168.710	20.32	43.50	-23.18	43.90	-23.58	100	359	QP
4	233.700	24.68	46.00	-21.32	50.10	-25.42	100	22	QP
5	302.570	13.07	46.00	-32.93	35.60	-22.53	200	176	QP
6	915.610	20.61	46.00	-25.39	31.20	-10.59	100	66	QP

#### Remark:

- "" means this data is the worst margin; "!" means this data is over limit.
- Emission Level=Reading Level + Correct Factor (Correct Factor=Ant Factor+Cable Loss+Pre Amp).
- Margin=Emission Level - Limit.
- The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.

Model No	POTS Adapter	Site	HY-CB05
Test Voltage	AC 120V/60Hz	Test Date	2024-09-30
Test Mode	Mode 3	Engineer	Monica Wu
Polarity	Horizontal	Temperature (°C)	24
Test Condition	--	Humidity (%RH)	48

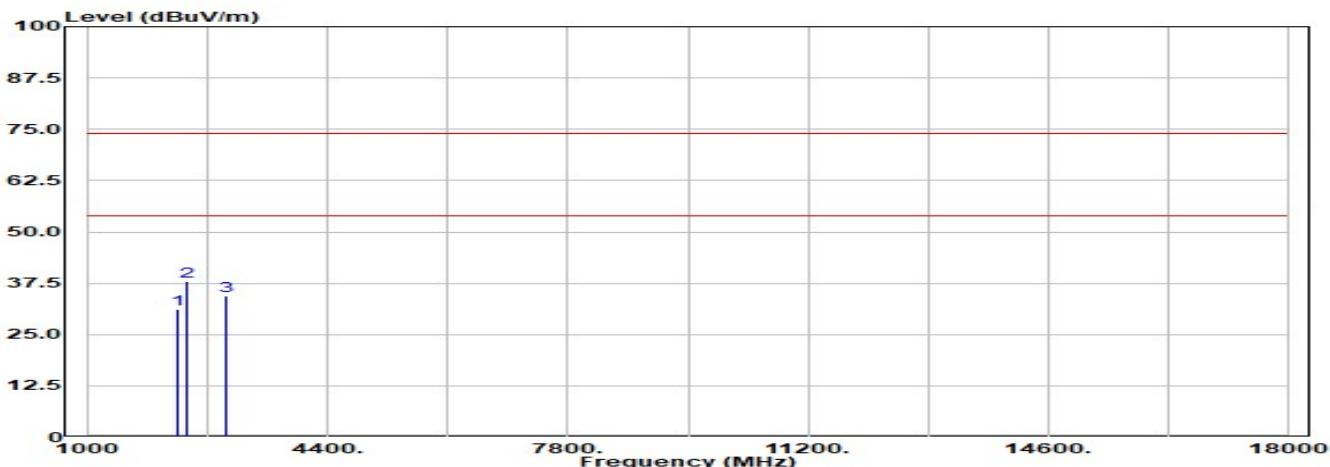


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	1969.000	30.99	74.00	-43.01	42.96	-11.97	100	319	Peak
2	2377.000	31.69	74.00	-42.31	42.29	-10.59	100	355	Peak
3	2853.000	32.93	74.00	-41.07	42.22	-9.29	100	302	Peak

#### Remark:

- \*\* means this data is the worst margin; ! means this data is over limit.
- Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
- Margin=Emission Level - Limit.
- The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.

Model No	POTS Adapter	Site	HY-CB05
Test Voltage	AC 120V/60Hz	Test Date	2024-09-30
Test Mode	Mode 3	Engineer	Monica Wu
Polarity	Vertical	Temperature (°C)	24
Test Condition	--	Humidity (%RH)	48



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	2258.000	31.15	74.00	-42.85	41.95	-10.80	100	136	Peak
2	2394.000	37.92	74.00	-36.08	48.55	-10.63	100	0	Peak
3	2955.000	34.44	74.00	-39.56	43.58	-9.14	100	304	Peak

#### Remark:

- \*\* means this data is the worst margin; ! means this data is over limit.
- Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
- Margin=Emission Level - Limit.
- The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.