



Test report No: 2420516R-0E3012110014-A

FCC TEST REPORT

Product Name	Peplink Pepwave Wireless Product
Trademark	
Model and /or type reference	MAX BR2 Micro BR2 Micro MAX-BR2-MICRO-LTE-US-PRM
FCC ID	U8G-P1MT08
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: 2022, Class A
Verdict Summary	IN COMPLIANCE
Documented By (Senior Adm. Specialist / Rita Huang)	
Approved By (Director / Vincent Lin)	
Date of Report	2024/02/29
Date of Issue	2024/03/25
Report No.	2420516R-0E3012110014-A
Report Version	V1.0

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Product Photos: Please refer to the file: 2420516R-Product Photos

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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

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
2420516R-0E3012110014-A	V1.0	Initial issue of report.	2024-03-25

1. General Information

1.1. EUT Description

Product Name	Peplink Pepwave Wireless Product
Trademark	 The logo for Peplink Pepwave, featuring the word 'peplink' in a lowercase, bold, grey font with three orange dots above the 'i', followed by 'PEPWAVE' in a larger, uppercase, grey font.
Model No.	MAX BR2 Micro BR2 Micro MAX-BR2-MICRO-LTE-US-PRM
FCC ID	U8G-P1MT08
EUT Max. Frequency	1910 MHz
EUT Rated Voltage	Power Port: 10V – 30V DC USB Power Delivery: 9V – 20V DC
EUT Test Voltage (Final Test Mode)	Power Port: AC 120V/60Hz to DC 12V (AC Adapter) Power Port: DC 30V

Component	
Adapter	Brand: DVE M/N: DSA-24PFS-12 FUS 120200 AC Input: 100- 240 Vac, 50/60Hz, 0.8 A DC Output: 12 Vdc, 2.0 A, 24.0W Cable out: Non-Shielded, 1.5m

Note: The EUT is including two models for different marketing requirement.

1.2. Mode of Operation

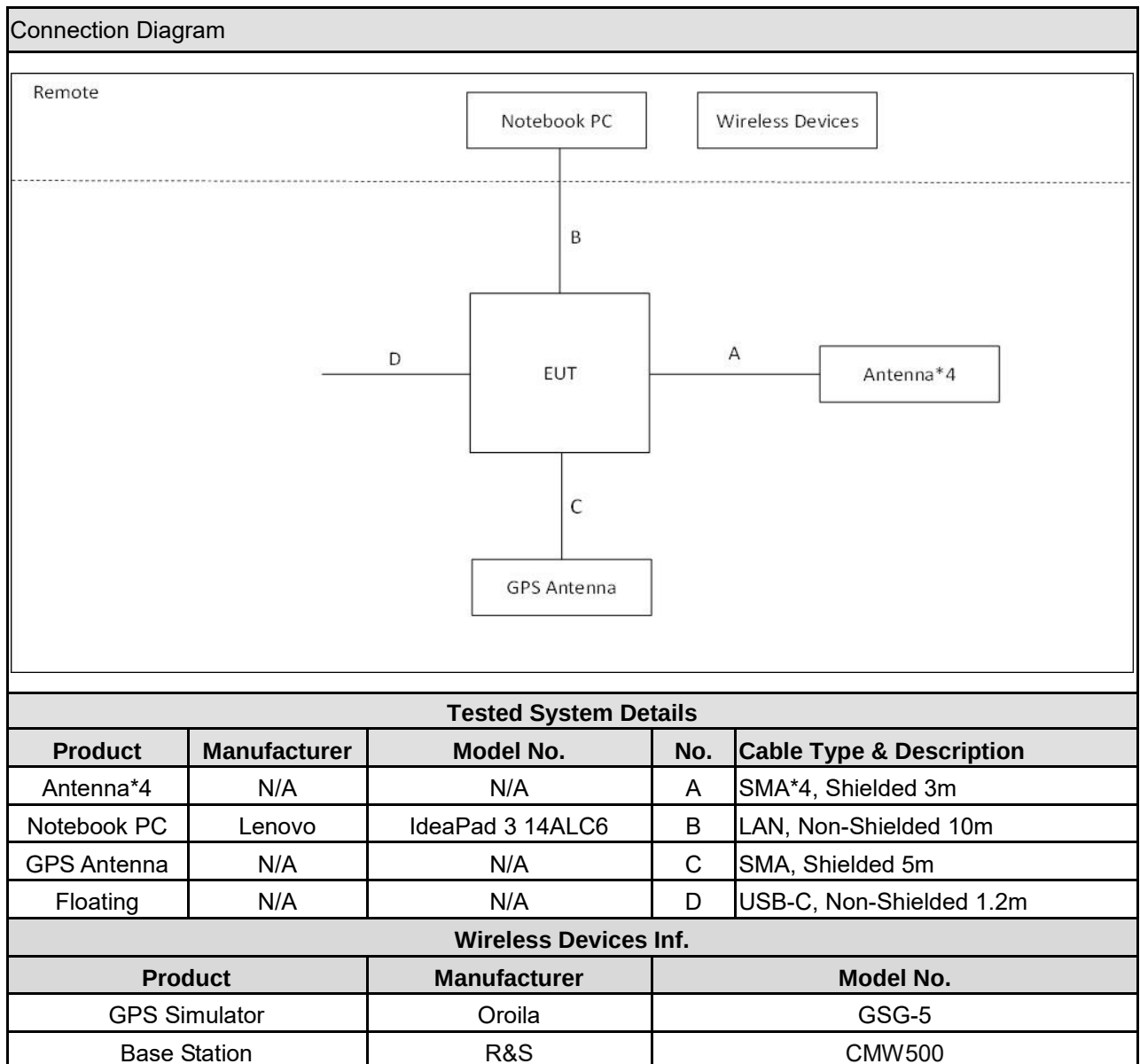
DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode (Conducted Emission)	
Mode 1: Normal Operation(LAN 1Gbps + GPS + WWAN LTE Band 2 Link + Worst SIM Card-Slot 1), Molex Power port, DC 12V By Adapter(DVE/DSA-24PFS-12 FUS 120200)	
Mode 2: Normal Operation(LAN 1Gbps + GPS + WWAN LTE Band 2 Link + Worst SIM Card-Slot 1), USB port, DC 20V	
Mode 3: Normal Operation(LAN 1Gbps + GPS + WWAN LTE Band 2 Link + Worst SIM Card-Slot 1), USB port, DC 9V	
Mode 4: Normal Operation(WAN 1Gbps + GPS + WWAN LTE Band 2 Link + Worst SIM Card-Slot 1), Molex Power port, DC 12V By Adapter(DVE/DSA-24PFS-12 FUS 120200)	
Mode 5: Normal Operation(LAN 1Gbps + GPS + WWAN WCDMA Band 2 Link + Worst SIM Card-Slot 1), Molex Power port, DC 12V By Adapter(DVE/DSA-24PFS-12 FUS 120200)	
Pre-Test Mode (Radiated Emission)	
Mode 1: Normal Operation(LAN 1Gbps + GPS + WWAN LTE Band 2 Link + Worst SIM Card-Slot 1), Molex Power port, DC 12V By Adapter(DVE/DSA-24PFS-12 FUS 120200)	
Mode 2: Normal Operation(LAN 1Gbps + GPS + WWAN LTE Band 2 Link + Worst SIM Card-Slot 1), Molex Power port, DC 10V	
Mode 3: Normal Operation(LAN 1Gbps + GPS + WWAN LTE Band 2 Link + Worst SIM Card-Slot 1), Molex Power port, DC 30V	
Mode 4: Normal Operation(LAN 1Gbps + GPS + WWAN LTE Band 2 Link + Worst SIM Card-Slot 1), USB port, DC 20V	
Mode 5: Normal Operation(LAN 1Gbps + GPS + WWAN LTE Band 2 Link + Worst SIM Card-Slot 1), USB port, DC 9V	
Mode 6: Normal Operation(WAN 1Gbps + GPS + WWAN LTE Band 2 Link + Worst SIM Card-Slot 1), Molex Power port, DC 30V	
Mode 7: Normal Operation(LAN 1Gbps + GPS + WWAN WCDMA Band 2 Link + Worst SIM Card-Slot 1), Molex Power port, DC 30V	
Final Test Mode	
Conducted Emission	Mode 1
Radiated Emission	Mode 3

Note:

1. Refer to Certified Cellular module report worst band to test.
2. The worst SIM Card slot is Slot 1.

1.3. Configuration & Details of Tested System



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 equipments.
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	FCC CFR Title 47 Part 15 Subpart B:2022, Class A CISPR 22:2008, ANSI C63.4-2014 ANSI C63.4a-2017	Yes	HY-SR09	Pass
Radiated Emission	FCC CFR Title 47 Part 15 Subpart B:2022, Class A CISPR 22:2008, ANSI C63.4-2014 ANSI C63.4a-2017	Yes	FS-CB01 HY-CB05	Pass

Note:

1. Test Site information refers to test Laboratory Information.

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 & Impedance Stabilization Network / 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	2023/6/17	2024/6/16
Impedance Stabilization Network	TESEQ	ISN T8-Cat6	61286	2023/6/15	2024/6/14
Impedance Stabilization Network	TESEQ	ISN ST08	61833	2023/6/19	2024/6/18
Coaxial Cable	SUHNER	RG 400	HC001-RG	2023/5/31	2024/5/30

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) / FS-CB01

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Due Date
Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01124	2023/9/18	2024/9/17
Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01126	2023/9/18	2024/9/17
Receiver	R&S	ESR7	102255	2023/3/27	2024/3/26
Receiver	R&S	ESR7	102254	2023/12/7	2024/12/6
Coaxial Cable	SUHNER	SUCOFLEX 106	AC043-SF	2023/7/7	2024/7/6
Coaxial Cable	SUHNER	SUCOFLEX 106	AC044-SF	2023/7/7	2024/7/6
Coaxial Cable	SUHNER	SUCOFLEX 106	AC045-SF	2023/7/7	2024/7/6
Coaxial Cable	SUHNER	SUCOFLEX 106	AC046-SF	2023/7/7	2024/7/6
Coaxial Cable	SUHNER	SUCOFLEX 106	AC047-SF	2023/7/7	2024/7/6
Coaxial Cable	SUHNER	SUCOFLEX 106	AC049-SF	2023/7/7	2024/7/6
Coaxial Cable	SUHNER	SUCOFLEX 106	AC051-SF	2023/7/7	2024/7/6
Coaxial Cable	SUHNER	SUCOFLEX 106	AC052-SF	2023/7/7	2024/7/6
Preamplifier	SGH	EM330	20200921-5	2023/6/19	2024/6/18
Preamplifier	SGH	EM330	20200921-6	2023/6/19	2024/6/18
NSA	DEKRA	N/A	N/A	2023/7/8	2024/7/7

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	2023/5/26	2024/5/25
Horn Antenna	COM-POWER	AH-840	101088	2023/10/4	2024/10/3
EMI Test Receiver	R&S	ESR7	102502	2023/3/28	2024/3/27
Signal Analyzer	R&S	FSV3044	101245	2023/4/17	2024/4/16
Coaxial Cable	ROSNOL	R-Test EW0630	HC003R	2023/6/19	2024/6/18
Coaxial Cable	ROSNOL	R-Test EW0630	HC005R	2023/6/19	2024/6/18
Coaxial Cable	ROSNOL	R-Test EW0630	HC004R	2023/6/19	2024/6/18
Preamplifier	SGH	SGH118-HS	20220411-2	2023/4/26	2024/4/25
Microwave Preamplifier with cable	SGH	SGH184	20220411-3	2023/4/26	2024/4/25
VSWR	DEKRA	N/A	N/A	2023/8/23	2024/8/22

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

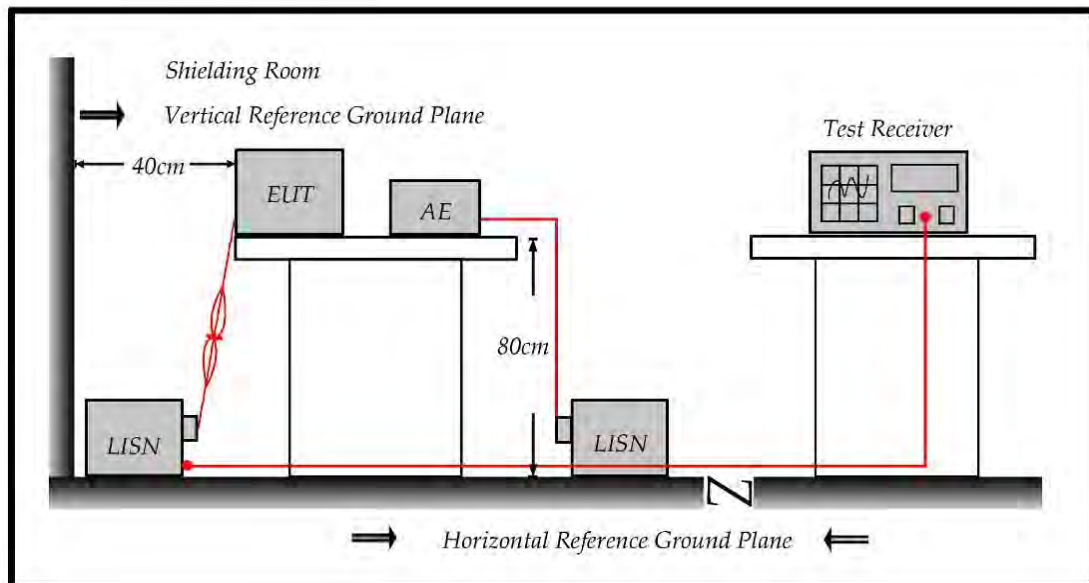
Performed Item	Items	Required
Conducted Emission	Temperature (°C)	10-40
	Humidity (%RH)	10-90
Radiated Emission	Temperature (°C)	10-40
	Humidity (%RH)	10-90

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 (dBuV)	Class A Average (dBuV)	Class B Quasi-peak (dBuV)	Class B Average (dBuV)
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 dBuV 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.

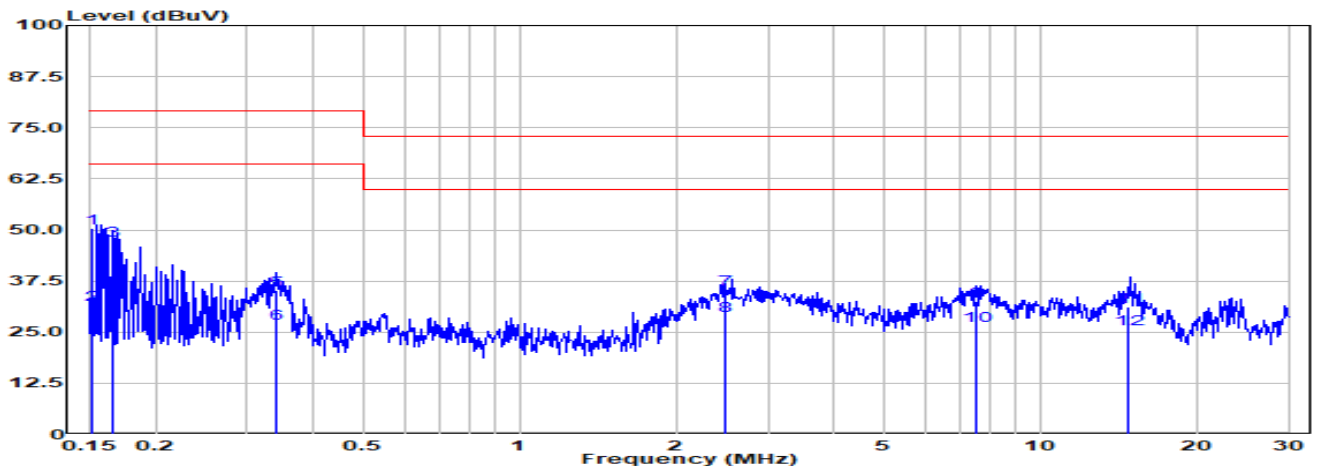
(Please refers to the block diagram of the test setup and photographs.)

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	MAX BR2 Micro	Site	HY-SR09
Test Voltage	AC 120V/60Hz	Test Date	2024-03-11
Test Mode	Mode 1	Engineer	Monica Wu
Phase	Line	Temperature (°C)	19
Test Condition	--	Humidity (%RH)	53

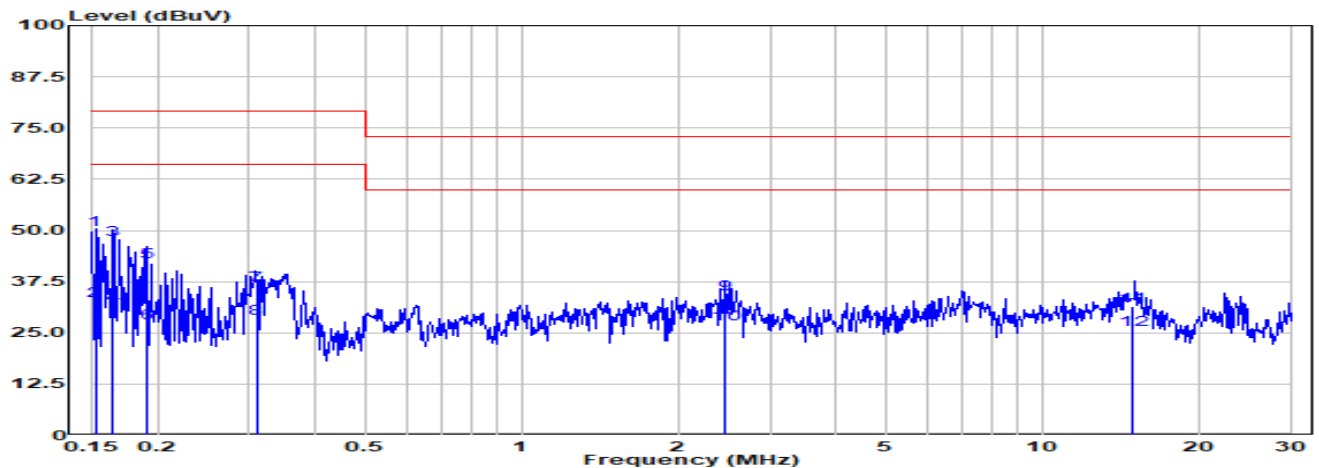


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.151	50.52	79.00	-28.48	40.92	9.60	QP
2	0.151	31.64	66.00	-34.36	22.04	9.60	Average
3	0.165	47.38	79.00	-31.62	37.77	9.60	QP
4	0.165	28.76	66.00	-37.24	19.15	9.60	Average
5	0.340	35.17	79.00	-43.83	25.55	9.62	QP
6	0.340	27.20	66.00	-38.80	17.58	9.62	Average
7	2.475	35.58	73.00	-37.42	25.85	9.73	QP
8	2.475	29.13	60.00	-30.87	19.40	9.73	Average
9	7.513	32.39	73.00	-40.61	22.46	9.93	QP
10	7.513	26.66	60.00	-33.34	16.73	9.93	Average
11	14.817	31.24	73.00	-41.76	21.11	10.13	QP
12	14.817	25.74	60.00	-34.26	15.62	10.13	Average

Remark:

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

Model No	MAX BR2 Micro	Site	HY-SR09
Test Voltage	AC 120V/60Hz	Test Date	2024-03-11
Test Mode	Mode 1	Engineer	Monica Wu
Phase	Neutral	Temperature (°C)	19
Test Condition	--	Humidity (%RH)	53



No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.152	50.13	79.00	-28.87	40.49	9.64	QP
2	0.152	32.73	66.00	-33.27	23.09	9.64	Average
3	0.164	47.58	79.00	-31.42	37.94	9.64	QP
4	0.164	31.73	66.00	-34.27	22.09	9.64	Average
5	0.190	42.30	79.00	-36.70	32.66	9.64	QP
6	0.190	27.30	66.00	-38.70	17.65	9.64	Average
7	0.309	36.63	79.00	-42.37	26.98	9.65	QP
8	0.309	28.53	66.00	-37.47	18.88	9.65	Average
9	2.461	34.47	73.00	-38.53	24.72	9.75	QP
10	2.461	27.17	60.00	-32.83	17.42	9.75	Average
11	14.868	31.43	73.00	-41.57	21.18	10.26	QP
12	14.868	25.78	60.00	-34.22	15.52	10.26	Average

Remark:

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

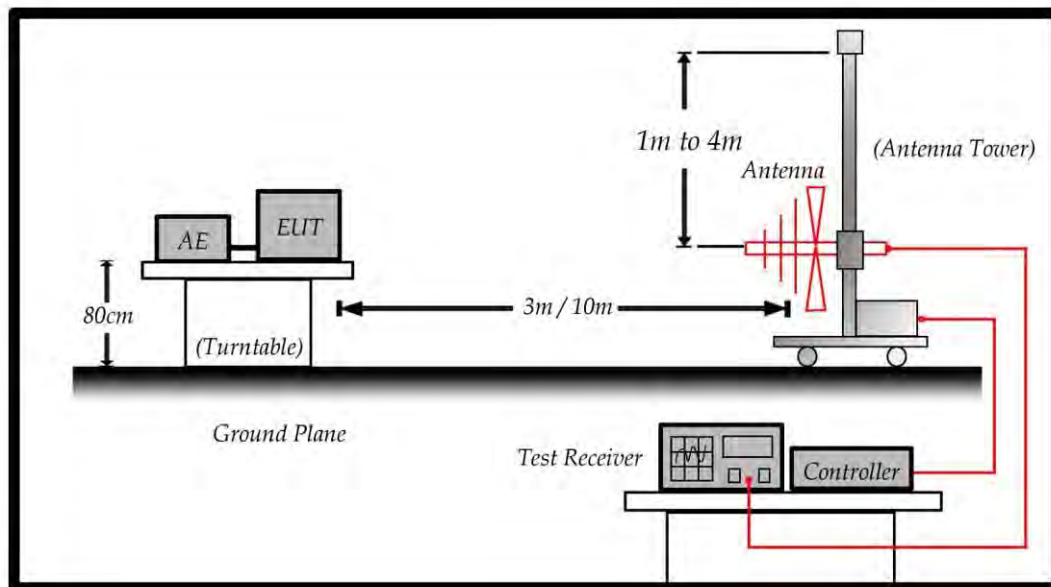
4. Radiated Emission

4.1. Test Specification

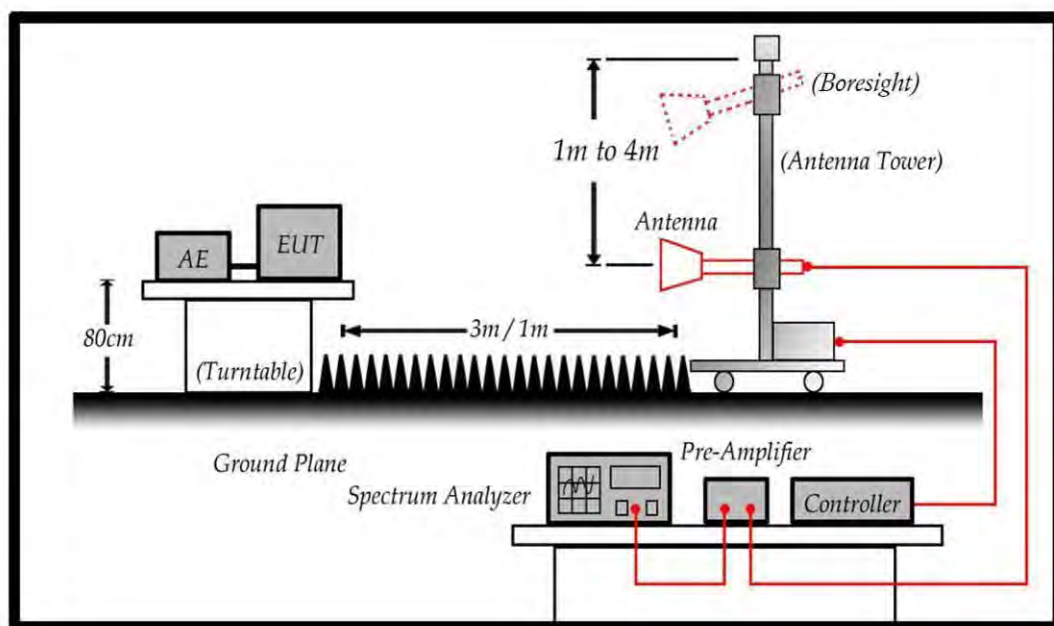
According to Standard : FCC Part 15 Subpart B & CISPR 22

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

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	10	39
88-216	10	43.5
216-960	10	46.4
960-1000	10	49.5
1000-40000	3	60
18000-40000	1	69.5

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. $\text{RF Voltage (dBuV/m)} = 20 \log \text{RF Voltage (uV/m)}$

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 th 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 measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000MHz, 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.

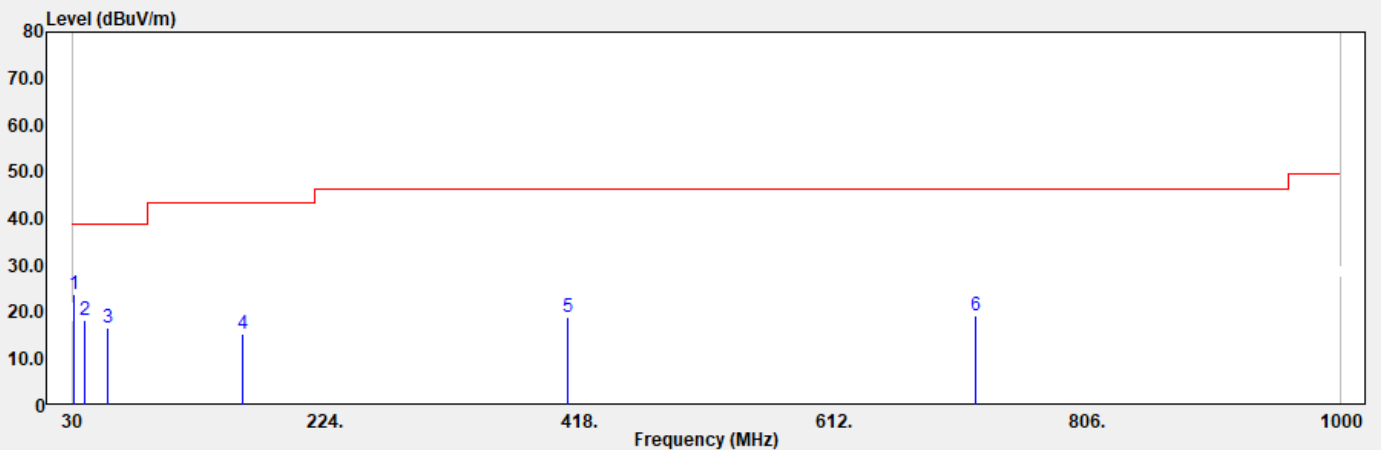
For class A, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and above 1GHz.

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 120kHz

4.5. Test Result

Model No	MAX BR2 Micro	Site	FS-CB01
Test Voltage	DC 30V	Test Date	2024-03-16
Test Mode	Mode 3	Engineer	Nilk Chen
Polarity	Horizontal	Temperature (°C)	22.2
Test Condition	--	Humidity (%RH)	65

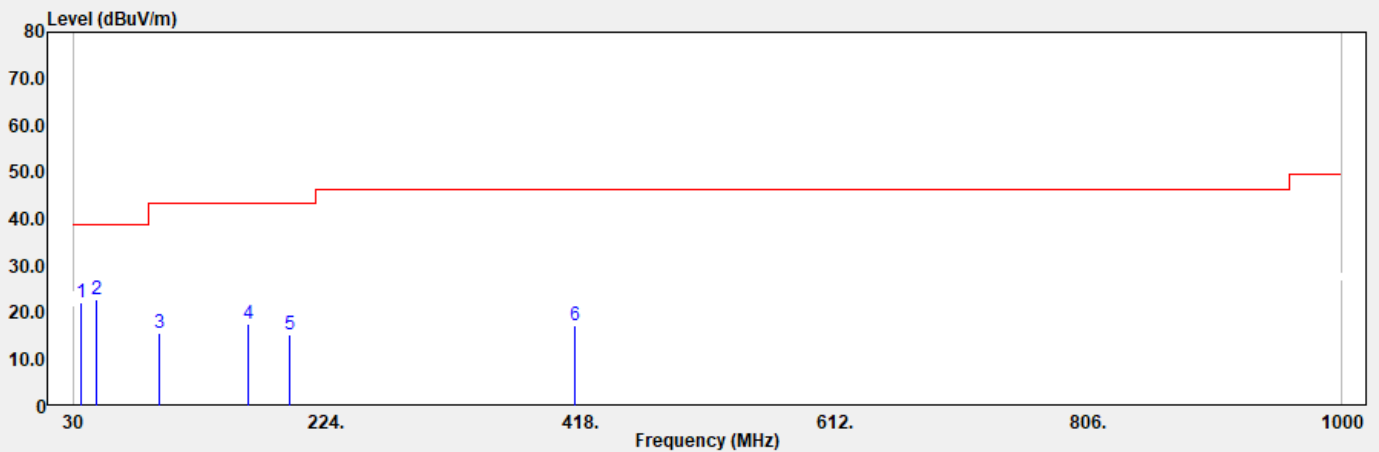


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1*	32.085	23.75	39.00	-15.25	48.25	-24.49	200	357	QP
2	39.505	18.23	39.00	-20.77	41.83	-23.60	100	16	QP
3	57.137	16.72	39.00	-22.28	39.71	-22.99	400	5	QP
4	160.427	15.35	43.50	-28.15	37.71	-22.36	400	273	QP
5	408.849	18.85	46.40	-27.55	36.68	-17.83	300	325	QP
6	721.179	19.21	46.40	-27.19	30.54	-11.34	400	7	QP

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.

Model No	MAX BR2 Micro	Site	FS-CB01
Test Voltage	DC 30V	Test Date	2024-03-16
Test Mode	Mode 3	Engineer	Nilk Chen
Polarity	Vertical	Temperature (°C)	22.2
Test Condition	--	Humidity (%RH)	65

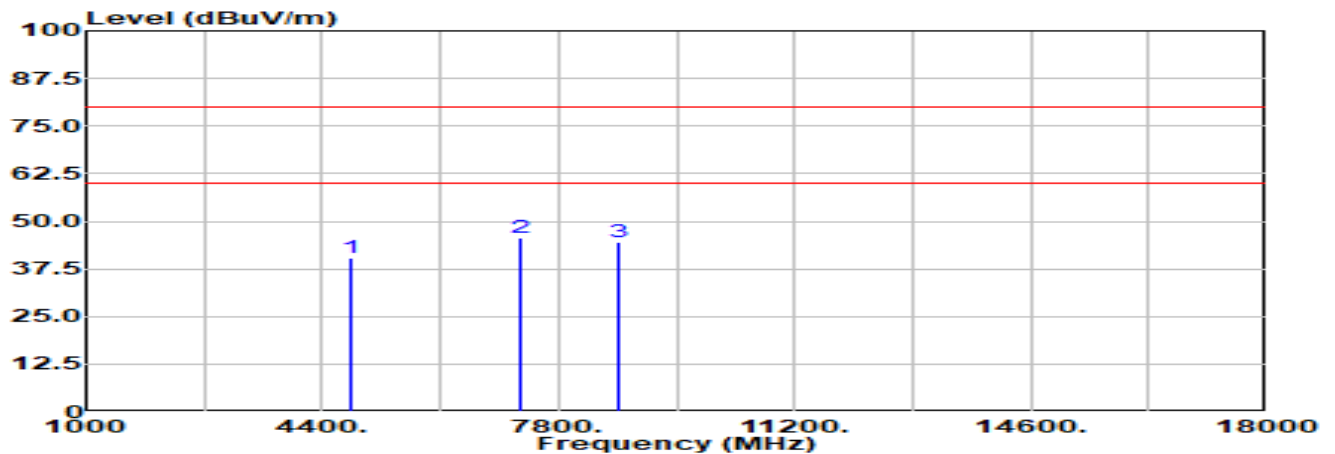


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	36.630	22.36	39.00	-16.64	46.38	-24.02	100	128	QP
2*	47.729	22.78	39.00	-16.22	45.25	-22.47	100	15	QP
3	95.896	15.55	43.50	-27.95	43.23	-27.67	200	165	QP
4	164.035	17.58	43.50	-25.92	39.93	-22.35	100	247	QP
5	195.678	15.44	43.50	-28.06	40.59	-25.15	100	348	QP
6	413.700	17.35	46.40	-29.05	34.74	-17.40	100	151	QP

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.

Model No	MAX BR2 Micro	Site	HY-CB05
Test Voltage	DC 30V	Test Date	2024-03-08
Test Mode	Mode 3	Engineer	Monica Wu
Polarity	Horizontal	Temperature (°C)	18
Test Condition	--	Humidity (%RH)	58

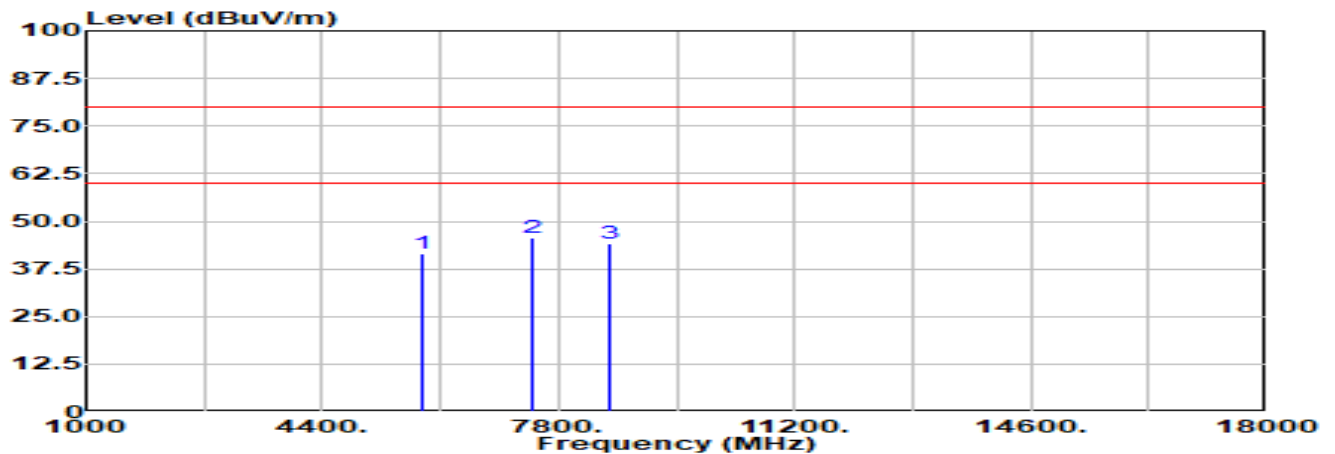


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	4813.667	40.50	80.00	-39.50	46.32	-5.82	100	360	Peak
2	7261.667	45.47	80.00	-34.53	45.46	0.01	100	222	Peak
3	8678.333	44.57	80.00	-35.43	43.22	1.35	100	199	Peak

Remark:

1. "" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.

Model No	MAX BR2 Micro	Site	HY-CB05
Test Voltage	DC 30V	Test Date	2024-03-12
Test Mode	Mode 3	Engineer	Monica Wu
Polarity	Vertical	Temperature (°C)	18
Test Condition	--	Humidity (%RH)	58



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	5856.333	41.57	80.00	-38.43	45.26	-3.70	100	259	Peak
2	7443.000	45.83	80.00	-34.17	45.52	0.31	100	244	Peak
3	8519.667	44.12	80.00	-35.88	42.81	1.30	100	346	Peak

Remark:

1. "" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.