Date of Issue: May 06, 2022

Report No.: WH-FCC-E22032901-1

# FCC 47 CFR PART 15 SUBPART B TEST REPORT FOR

Industrial Motherboard

Model: EPBC-1000 Series Model: EPBC-1000 Series, EPBC-1XXXXXXXXXXXXXXXXX

("X" can be 0-9, A-Z or blank for marketing purpose)

Issued to

Vecow Co., Ltd.

3F, No. 10, Jiankang Rd., Zhonghe Dist., New Taipei City 23586, Taiwan

Issued by

WH Technology Corp.





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#### **REVISION HISTORY**

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	May 06, 2022	Initial Issue	ALL	Ely



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#### 1. GENERAL INFORMATION

Applicant : Vecow Co., Ltd.

Address 3F, No. 10, Jiankang Rd., Zhonghe Dist., New Taipei City 23586,

<sup>·</sup> Taiwan

Manufacturer : Vecow Co., Ltd.

Address 3F, No. 10, Jiankang Rd., Zhonghe Dist., New Taipei City 23586,

Taiwan

EUT : Industrial Motherboard

Model Name : EPBC-1000

Name ("X" can be 0-9, A-Z or blank for marketing purpose)

Receipt Date : Mar. 29, 2022

Final Test Date : Apr. 22, 2022

Is herewith confirmed to comply with the requirements set out in the FCC Rules and Regulations described below and the measurement procedures were according to ANSI C63.4-2014. The said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

FCC 47 CFR Part 15 Subpart B

Class A

**Tested By:** 

Reviewed by:

Apr. 22, 2022 (Date)

Bing/Project Engineer

May 06, 2022

(Date)

Bell/Manager

FCC Designation Number: TW1083



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#### 1.1 DESCRIPTION OF THE TESTED SAMPLES

EUT Name : Industrial Motherboard

Model Number : EPBC-1000

Receipt Date : 03/29/2022

EUT Power Rating : ☐ AC 110V/60Hz

☐ DC 12V

☐ DC 5V from PC

EUT highest operating

frequency

100 MHz

EUT Covered : Adaptor

Model:HA-1600-12

Input:100-240Vac, 1.7A, 50-60Hz

Output:12Vdc, 5.0A, 60W

I/O Port of EUT : COM port x2

SIM port x1 RJ45 x2 DP x1

USB port x2

Interface : Display Port: Up to 4096 x 2160 @60Hz



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#### 1.2 SUMMARY OF TEST RESULT

Test Result measurement is not including uncertainty.

Emission					
Test Standard	Test Item	Limit	Test Result	Remark	
	Conducted emission	Class A	PASS	NOTE (1)	
FCC 47 CFR Part 15 Subpart B:2018	Radiated emission Below 1 GHz	Class A	PASS		
Caspart 5.2010	Radiated emission Above 1 GHz	Class A	PASS	NOTE (2)	

#### NOTE:

- 1) "N/A" denotes test is not applicable in this Test Report.
- 2) If the EUT's highest operating frequency does not exceed 108 MHz, the test will not be performed.



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#### 1.3 TEST FACILITY

The test facilities used to collect the test data in this report:

The test radinates ased to concert the test data in this report.
Conducted emission Test:  Conducted emission Test:  Conducted emission Test:  Results of the Conducted emission Test:
☑C02: No. 67-22, Baoxin St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.
Conducted emission at telecommunication ports Test:  Conducted emission at telecommunication ports Test:  Conducted emission at telecommunication ports Test:  Results of the conducted emission at telecommunication ports Test:
☐ C02: No. 67-22, Baoxin St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)
Radiated emission Test (Below 1 GHz):  Solution St., New Taipei City 221, Taiwan (R.O.C.)
☐ CB02: No. 67-22, Baoxin St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)
Radiated emission Test (Above 1 GHz):  Solution St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)
☐ CB02: No. 67-22, Baoxin St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)
The immunity test: No. 67-22, Baoxin St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)



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### 1.4 TEST METHODOLOGY EUT SYSTEM OPERATION

1. All peripherals connect EUT and power on.

#### **DESCRIPITON OF TEST MODES**

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

Pretest Test Mode	Description
Mode 1(worst)	All System(110Vac)
Mode 2	All System(220Vac)

Conducted emission test		
Final Test Mode	Description	
Mode 1(worst)	All System(110Vac)	

Radiated emission test		
Final Test Mode	Description	
Mode 1(worst)	All System(110Vac)	

Note: Display 3840×2160



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#### 1.5 DESCRIPTION OF THE SUPPORT EQUIPMENTS Setup Diagram

See test photographs attached in APPENDIX 1 for the actual connections between EUT and support equipment.

#### **Support Equipment**

	OUTSIDE SUPPORT EQUIPMENT						
No.	Equipment	Model	Serial No.	FCC ID	Trade name	Data Cable	Power Cord
1.	RS232 terminal	N/A	N/A	N/A	N/A	N/A	N/A
2.	RS232 terminal	N/A	N/A	N/A	N/A	N/A	N/A
3.	Server PC	D19M	CYY7Y A00 DC4	R33002	DELL	N/A	Unshielded 1.8m
4.	Monitor	BL2420-T	EJ35J00797019	R33037	BENQ	Shielded 1.8m	Unshielded 1.8m
5.	Mouse	MS116p	CN-04DWDN-73826- 5CM-0120	R41108	DELL	Shielded 1.8m / USB	N/A
	Keyboard	KB216p	CN-005TW2-71581-5 AF-01I3-A01	D41108	DELL	Shielded 1.8m / USB	N/A

#### Note:

- (1) The support equipment was authorized by Declaration of conformity (DOC).
- (2) All the above equipment/cable were placed in worse case position to maximize emission signals during emission test.
- (3) Grounding was established in accordance with the manufacturer's requirement and conditions for the intended use.

#### 1.6 FEATURES OF EUT:

Please refer to user manual or product specification.



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#### 2. INSTRUMENT AND CALIBRATION

#### 2.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in the report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

#### 2.2 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and. Other required standards. Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective.

#### TABLELIST OF TEST AND MEASUREMENT EQUIPMENT

Conducted emission				
Instrument	Manufacturer	Model No.	Serial No.	Cali Due Date
EMI Test Receiver	R&S	ESHS30	838550/003	2022/09/29
Spectrum Analyzer	R&S	FSP7	830180/009	2022/09/29
LISN	Schwarzbeck	NNLK 8121	8121#734	2022/09/09
ISN	Schwarzbeck	NTFM 8158	8158#125	2022/10/02
Test Cable	NA	RG316	WH-CON06	2022/10/12
Measurement Software	AUDIX	e3	V9.160707	N/A
	Radiate	d emission Below 1	GHz	
Instrument	Manufacturer	Model No.	Serial No.	Cali Due Date
Bilog antenna	ETC	MCTD2786B	BLB19O04027/J B-5-027	2022/11/10
LOOP Antenna	EMCO	6507	9301-1298	2023/02/16
Pre-amplifier	EMCI	EMC9135	980334	2022/07/15
Cable	EMCI	N male on end of both sides (EMI4)	30m	2023/03/20
Receiver	R&S	ESVS30	826006/002	2023/02/15
Spectrum Analyzer	R&S	FSP7	830180/006	2022/05/11
Measurement Software	AUDIX	e3	V6.101222a	N/A
Radiated emission Above 1GHz				
Instrument	Manufacturer	Model No.	Serial No.	Cali Due Date
Horn antenna	ETS LINDGREN	3117	00114397	2022/07/28



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Pre-amplifier	EMCI	EMC051845	980108	2023/03/30
RF CABLE	SUCOFLEX	104PEA	27348/4PEA	2022/09/06
RF CABLE	AGILENT	EMC102-KM-K M-3000	160101	2022/09/14
Spectrum Analyzer	ADVANTEST	R3182	150900201	2023/04/13
Notch Filter	EMC INSTRUMENT	EWT-14-0166	G1	2022/05/12
Measurement Software	AUDIX	e3	V6.101222a	N/A

Remark: "N/A" denotes No Model Name, No Serial No. or No Calibration specified.

#### 2.3 TEST PERFORMED

Conducted emissions were invested over the frequency range from 0.15 MHz to 30 MHz using a receiver which resolution bandwidth is set at 9 kHz.

Radiated emissions were invested over the frequency range from 30 MHz to 1000 MHz using a receiver which resolution bandwidth is set at 120 kHz. Radiated measurement was performed at distance that from an antenna to EUT is 10 meters.

#### 2.4 APPENDIX

#### **Appendix A: Measurement Procedure for Main Power Port Conducted Emissions**

The measurements are performed in a WH lab test room; The EUT was placed on non-conductive 1.0 m x 1.5 m table, which is 0.8 meters above an earth-grounded.

Power to the EUT was provided through the LISN which has the Impedance (50 ohm/50 uH) vs. Frequency Characteristic in accordance with the standard. Powers to the LISNs were filtered to eliminate ambient signal interference and these filters were bonded to the ground plane. Peripheral equipment required to provide a functional system (support equipment) for EUT testing was powered from the second LISN through a ganged, metal power outlet box which is bonded to the ground plane at the LISN.

If the EUT is supplied with a flexible power cord, the power cord length in excess of the distance separating the EUT from the LISN shall be folded back and forth at the center of the lead so as to form a bundle not exceeding 40cm in length. If the EUT is provided with a permanently coiled power cord, bundling of the cord is not required. If the EUT is supplied without a power cord, the EUT shall be connected to the LISN by a power cord of the type specified by the manufacturer which shall not be longer than 1 meter. The excess power cord shall be bundled as described above. If a non-flexible power cord is provided with the EUT, it shall be cut to the length necessary to attach the EUT to the LISN and shall not be bundled.

The interconnecting cables were arranged and moved to get the maximum measurement. Both the line of power cord, hot and neutral, was measured.

The highest emissions were analyzed in details by operating the spectrum analyzer in fixed tuned mode to determine the nature of the emissions and to provide information which could be useful in reducing their amplitude.



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#### **Appendix B: Test Procedure for Radiated Emissions**

#### Preliminary Measurements in 743 Semi Anechoic Chamber

The radiated emissions are initially measured in the anechoic chamber at a measurement distance of 3 meters. Desktop EUT are placed on a wooden stand 0.8 meter in height. The measurement antenna is 3 meters from the EUT. The test setup in anechoic chamber is the same as open site. The turntable rotated 360°C. The antenna height is 1m. The primary objective of the radiated measurements in the anechoic chamber is to identify the frequency spectrum in the absence of the electromagnetic environment existing on the open test site. The frequencies can then be pre-selected on the open test site to obtain the corresponding amplitude. The initial scan is made with the spectrum analyzer in automatic sweep mode. The spectrum peaks are then measured manually to determine the exact frequencies.

#### Measurements on the Open Site or 1166 Semi Anechoic Chamber

The radiated emissions test will then be repeated on the open site or chamber to measure the amplitudes accurately and without the multiple reflections existing in the shielded room. The EUT and support equipments are set up on the turntable. Desktop EUT are set up on a wooden stand 0.8 meter above the ground.

For the initial measurements, the receiving antenna is varied from 1-4-meter height and is changed in the vertical plane from vertical to horizontal polarization at each frequency. Both reading is recorded with the quasi-peak detector with 120 kHz bandwidth. For frequency between 30 MHz and 1000 MHz, the reading is recorded with peak detector or quasi-peak detector.

At the highest amplitudes observed, the EUT is rotated in the horizontal plane while changing the antenna polarization in the vertical plane to maximize the reading. The interconnecting cables were arranged and moved to get the maximum measurement. Once the maximum reading is obtained, the antenna elevation and polarization will be varied between specified limits to maximize the readings.

#### **Appendix C: Warning Labels**

#### **Label Requirements**

- (a) In addition to the requirements in part 2 of this chapter, a device subject to certification, or Supplier's Declaration of Conformity shall be labeled as follows:
- (1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90 of this chapter, etc., shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

(2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:



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This device complies with part 15 of the FCC Rules for use with cable television service.

(3) All other devices shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- (4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.
- (5) When the device is so small or for such use that it is impracticable to label it with the statement specified under paragraph (a) of this section in a font that is four-point or larger, and the device does not have a display that can show electronic labeling, then the information required by this paragraph shall be placed in the user manual and must also either be placed on the device packaging or on a removable label attached to the device.



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#### **Appendix D: Warning Statement**

#### **Statement Requirements**

The operator's manual for a Class A digital device shall contain the following statements or their equivalent:

\* \* \* W A R N I N G \* \* \*

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and uses in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equivalent.

\* \* \* \* \* \* \* \* \*

If the EUT was tested with special shielded cables the operator's manual for such product shall also contain the following statements or their equivalent:

Shielded interface cables and/or AC power cord, if any, must be used in order to comply with the emission limits.

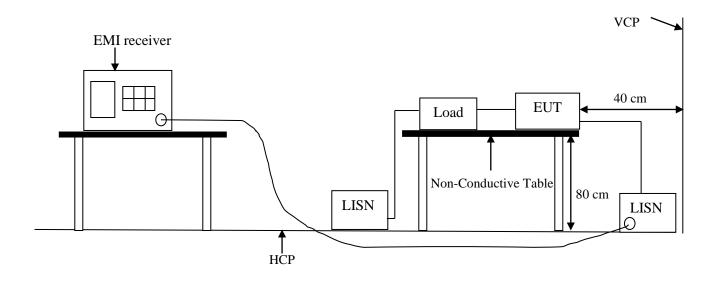


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#### 3. CONDUCTED EMISSION MEASUREMENT

#### 3.1 TEST SET-UP



#### 3.2 LIMIT

Erogueney range	CLASS A		CLASS B		
Frequency range (MHz)	QP (dBµV)	Average (dBµV)	QP (dBµV)	Average (dBµV)	
0.15 – 0.5	79	66	66 - 56	56 - 46	
0.5 - 5.0	73	60	56	46	
5.0 – 30	73	60	60	50	

#### NOTE:

- 1) In the above table, the tighter limit applies at the band edges.
- 2) The test result calculated as following:

Level Value = Reading Level + Factor

Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Over Limit Value = Level Value - Limit Value

#### 3.3 TEST PROCEDURE

Please refer to

Appendix A: Measurement Procedure for Main Power Port Conducted Emissions Note:

- 1. Reading in which marked as Peak, QP or AVG means measurements by using are Quasi-Peak or Average Mode with Detector BW=9 kHz (6 dB Bandwidth).
- 2.All readings are Peak Mode value unless otherwise stated QP or AVG in column of Note. If the Peak or QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP &



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AVG Limits and then only Peak or QP Mode was measured, but AVG Mode didn't perform.

#### 3.4 TEST SPECIFICATION

According to ANSI C63.4-2014 Section 5.2, 7.1, 7.2 and FCC Part 15 Subpart B Class A.

(Please refer to Page 4 for dated references which are related to the standard as mentioned above)

#### 3.5 RESULT: PASSED

Model Name	EPBC-1000
Test Voltage	AC 110V/50Hz
Temperature:	20 °C
Humidity:	50 % RH

#### 3.6 TEST DATA:

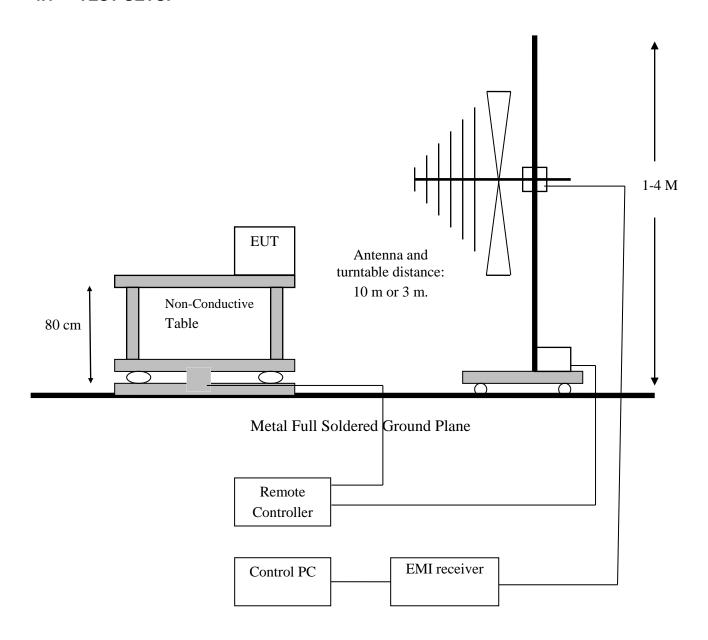
Please refer to APPENDIX 2



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#### 4. RADIATED EMISSION MEASUREMENT

#### 4.1 **TEST SETUP**





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#### 4.2 LIMIT

Frequency	Class A	A at 10m	Class B at 3m		
MHz	Field Strength (µV/m)	Quasi-peak (dBµV/m)	Field Strength (µV/m)	Quasi-peak (dBµV/m)	
30 ~ 88	90	39.08	100	40	
88 ~ 216	15	43.52	150	43.52	
216 ~ 960	210	46.44	200	46.02	
960 above	300	49.54	500	53.98	

Frequency	Class A at 10m	Class B at 10m
MHz	Quasi-peak (dBµV/m)	Quasi-peak (dBµV/m)
30 ~ 230	40	30
230 ~ 1000	47	37

#### NOTE:

1) According to FCC 47 CFR Part 15 § 15.109(g) as refer to CISPR 22 Limits and method of measurement.

Frequency range (GHz)	Class	A at 3m	Class B at 3m		
	Average	Peak	Average	Peak	
(0112)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	
1 ~ 6	60	80	54	74	

#### NOTE:

- 1) In the above table, the tighter limit applies at the band edges.
- 2) The test result calculated as following:

Level Value = Reading Level + Factor

Factor = Antenna Factor + Cable Loss - Amplifier Gain (if use)

Over Limit Value = Level Value - Limit Value

#### 4.3 TEST PROCEDURE

Please refer to

Appendix B: Test Procedure for Radiated Emissions

#### Note:

(Below 1 GHz)

1. Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode with Detector BW=120 kHz.



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2.All readings are Peak unless otherwise stated QP in column of Note. Peak

denotes that the Peak reading compliance with the QP Limits and then QP Mode

measurement didn't perform.

(Above 1 GHz)

1. Reading in which marked as Peak means measurements by using are Peak Mode with instrument setting in RBW=1 MHz, VBW= 1MHz.

Reading in which marked as AV means measurements by using are Average Mode with instruments setting in RBW=1 MHz, VBW= 10Hz.

2.All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform.

#### 4.4 TEST SPECIFICATION

According to ANSI C63.4-2014 Section 5.2, 7.1, 7.2 and FCC Part 15 Subpart B Class A.

(Please refer to Page 4 for dated references which are related to the standard as mentioned above)

#### 4.5 RESULT: PASSED

Model Name	EPBC-1000
Test Voltage	AC 110V/50Hz
Temperature:	26 °C
Humidity:	56 % RH

#### 4.6 TEST DATA:

Please refer to APPENDIX 2



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#### **5. MEASUREMENT UNCERTAINTY**

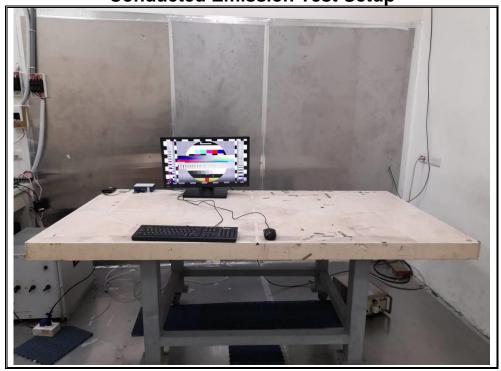
Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE/NEUTRAL	3.54 dB
	Below 1GHz	Horizontal	2.81 dB
Radiated Emission	Delow 1GHZ	Vertical	4.01 dB
Radiated Emission	Above 1GHz	Horizontal	4.64 dB
	Above IGHZ	Vertical	5.16 dB



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### **APPENDIX 1** PHOTOS OF TEST CONFIGURATION

**Conducted Emission Test Setup** 







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**Radiated Emission Test Setup** 







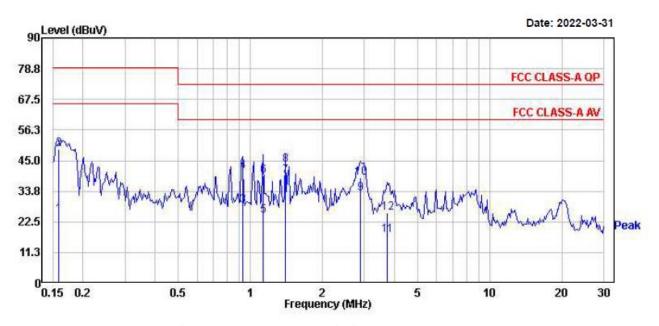
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## APPENDIX 2 TEST DATA

#### **Test Data - Conducted Emission**

Phase: L

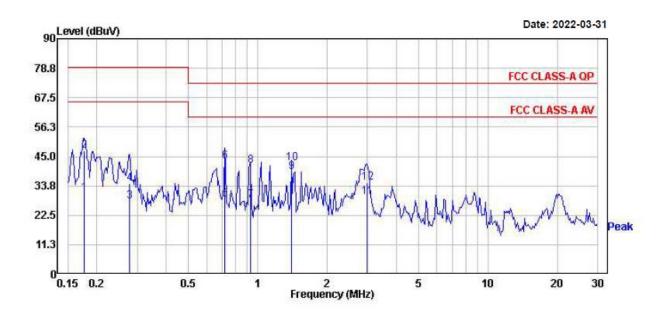


		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	—dBuV	dB	——— dBuV	dBuV	dB	
1	0.158	24.95	0.10	25.05	66.00	-40.95	Average
2	0.158	49.30	0.10	49.40	79.00	-29.60	QP
3	0.928	28.35	0.13	28.48	60.00	-31.52	Average
4	0.928	40.80	0.13	40.93	73.00	-32.07	QP
5	1.135	24.72	0.14	24.86	60.00	-35.14	Average
6	1.135	39.18	0.14	39.32	73.00	-33.68	QP
7	1.403	39.34	0.16	39.50	60.00	-20.50	Average
8	1.403	43.28	0.16	43.44	73.00	-29.56	QP
9	2.884	32.56	0.23	32.79	60.00	-27.21	Average
10	2.884	38.32	0.23	38.55	73.00	-34.45	QP
11	3.720	17.25	0.26	17.51	60.00	-42.49	Average
12	3.720	25.64	0.26	25.90	73.00	-47.10	QP



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Phase: N



		Read			Limit	0ver	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHZ	dBuV	dB	dBuV	dBuV	dB	
1	0.176	30.74	0.09	30.83	66.00	-35.17	Average
2	0.176	47.16	0.09	47.25	79.00	-31.75	QP
3	0.277	27.77	0.09	27.86	66.00	-38.14	Average
4	0.277	34.56	0.09	34.65	79.00	-44.35	QP
5	0.720	28.35	0.12	28.47	60.00	-31.53	Average
6	0.720	42.96	0.12	43.08	73.00	-29.92	QP
7	0.928	27.91	0.13	28.04	60.00	-31.96	Average
8	0.928	41.44	0.13	41.57	73.00	-31.43	QP
9	1.403	38.99	0.16	39.15	60.00	-20.85	Average
10	1.403	42.26	0.16	42.42	73.00	-30.58	QP
11	2.978	29.40	0.23	29.63	60.00	-30.37	Average
12	2.978	34.68	0.23	34.91	73.00	-38.09	QP

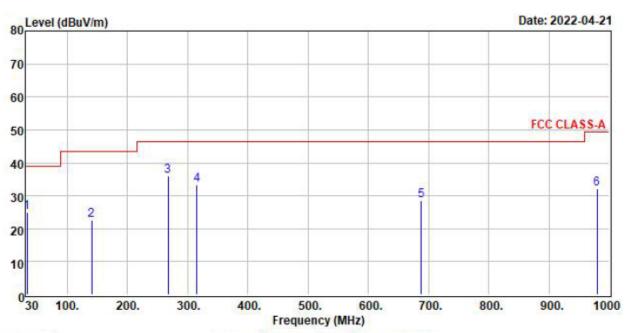


Date of Issue: May 06, 2022

Report No.: WH-FCC-E22032901-1

#### Test Data - Radiated Emission-Below 1GHz

Polarization: Horizontal



Remarks

: 1.Result=Read Value+Factor

: 2.Factor=Antenna Factor+Cable loss-

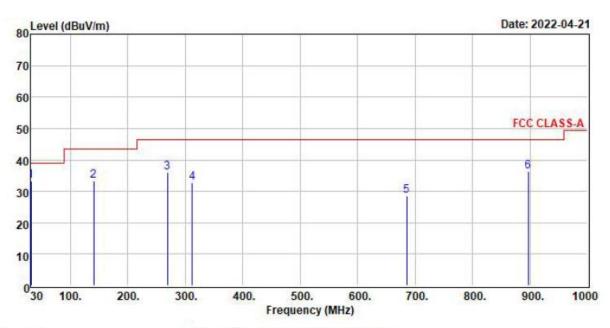
			Read		Over	Limit	
	Freq	Level	Level	Factor	Limit	Line	Remark
<u> </u>	MHz	dBuV/m	dBuV	dB/m	dB	dBuV/m	
1	32.62	24.85	40.75	-15.90	-14.15	39.00	QP
2	140.40	22.60	37.00	-14.40	-20.90	43.50	QP
3 @	266.88	35.95	50.45	-14.50	-10.45	46.40	QP
4 5	315.24	33.19	46.54	-13.35	-13.21	46.40	QP
5	687.97	28.55	35.00	-6.45	-17.85	46.40	QP
6	980.28	32.14	33.75	-1.61	-17.36	49.50	OP



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#### Polarization: Vertical



Remarks

: 1.Result=Read Value+Factor

: 2.Factor=Antenna Factor+Cable loss-

		2.5	Read		Over	Limit	
	Freq	Level	Level	Factor	Limit	Line	Remark
-	MHz	dBuV/m	dBuV	dB/m	dB	dBuV/m	
1 @	31.62	33.26	48.76	-15.50	-5.74	39.00	QP
2	140.22	33.19	47.59	-14.40	-10.31	43.50	QP
3	268.52	35.85	50.31	-14.46	-10.55	46.40	QP
4	311.74	32.62	46.12	-13.50	-13.78	46.40	QP
5	685.17	28.59	34.95	-6.36	-17.81	46.40	QP
6	897.22	36.18	39.66	-3.48	-10.22	46,40	OP

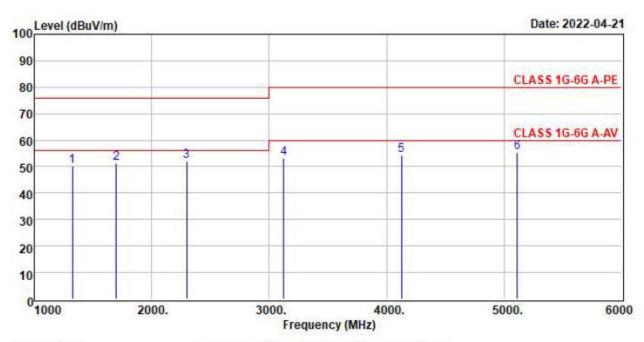


Date of Issue: May 06, 2022

Report No.: WH-FCC-E22032901-1

#### Test Data - Radiated Emission-Above 1GHz

Polarization: Horizontal



Remarks: : 1.Result=Read Value+Factor

: 2.Factor=Antenna Factor+Cable loss-

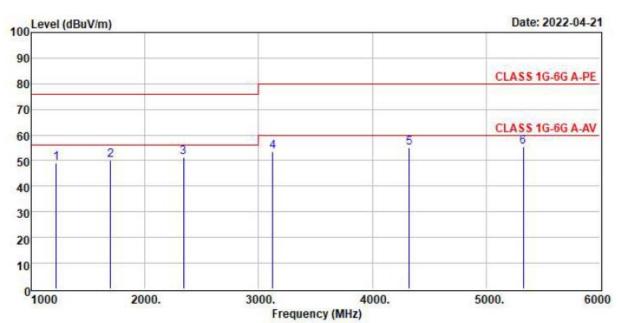
			Read		Over	Limit	
	Freq	Level	Level	Factor	Limit	Line	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dBuV/m	
1	1326.00	50.32	65.75	-15.43	-25.68	76.00	Peak
2	1699.00	51.32	64.78	-13.46	-24.68	76.00	Peak
3 @	2299.00	52.16	62.37	-10.21	-23.84	76.00	Peak
4	3126.00	53.26	60.33	-7.07	-26.74	80.00	Peak
5	4126.00	54.25	59.87	-5.62	-25.75	80.00	Peak
6	5111.00	55.32	59.04	-3.72	-24.68	80.00	Peak



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#### Polarization: Vertical



Remarks:

: 1.Result=Read Value+Factor

: 2.Factor=Antenna Factor+Cable loss-

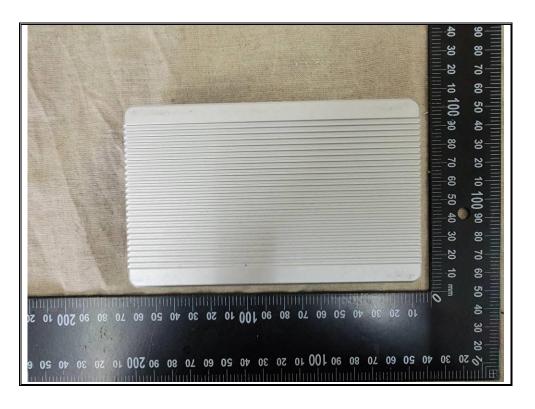
	Freq	Level	Read Level		Over Limit	Limit Line	Remark
13	MHz	dBuV/m	dBuV	dB/m	dB	dBuV/m	<del>-</del>
1	1222.00	49.18	65.00	-15.82	-26.82	76.00	Peak
2	1697.00	50.32	63.83	-13.51	-25.68	76.00	Peak
3	2340.00	51.28	61.40	-10.12	-24.72	76.00	Peak
4	3126.00	53.62	60.69	-7.07	-26.38	80.00	Peak
5	4326.00	54.85	59.90	-5.05	-25.15	80.00	Peak
6 0	5326 00	55 32	58 58	-3 26	-24 68	80 00	Dook



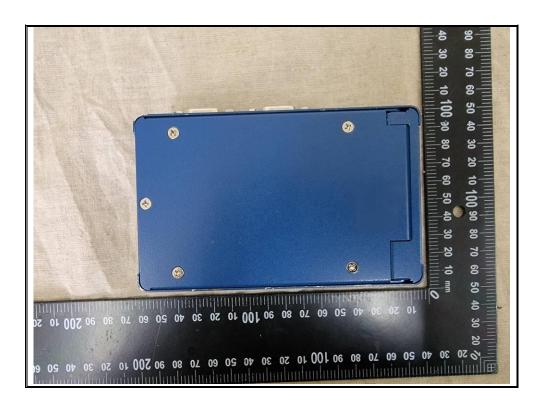
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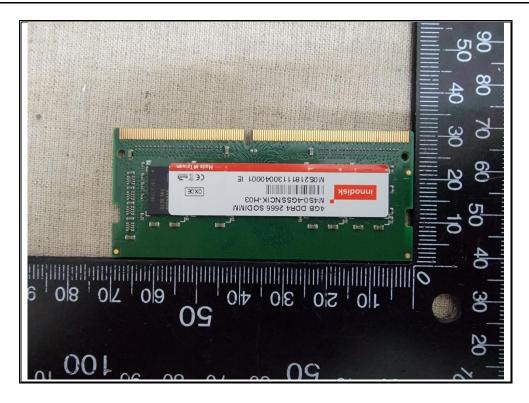


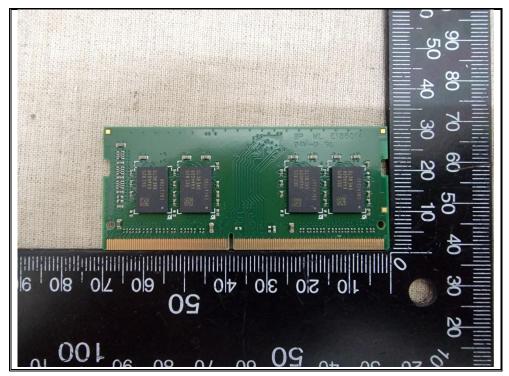




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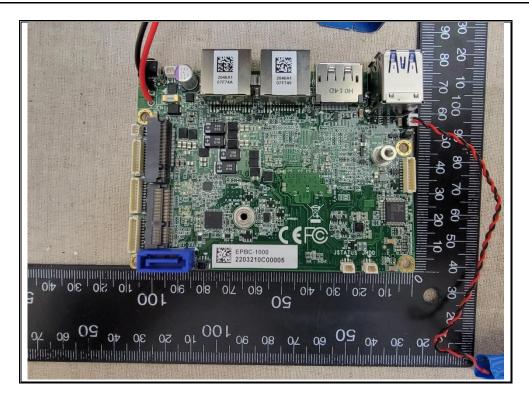






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