



BUREAU  
VERITAS

Test Report No.: PSU-NQN2504020112EM01



Certificate #6613.01

## EMC TEST REPORT

Applicant:	InHand Networks, Inc.
Address:	43671 Trade Center Place, Suite 100, Dulles, VA 20166 United States

Manufacturer or Supplier:	InHand Networks, Inc.
Address:	43671 Trade Center Place, Suite 100, Dulles, VA 20166 United States
Product:	Edge Computer
Brand Name:	inhand
Model Name:	EC3320, EC3310, EC3340
FCC ID:	2BPWU-EC3320
Date of tests:	Mar.28, 2025~ Apr. 30, 2025

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

FCC Part 15, Subpart B, Class A  
 FCC Part 15, Subpart B, Class B  
 ANSI C63.4:2014

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department

Date: Apr. 30, 2025      Date: Apr. 30, 2025

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-NQN2504020112EM01	Original release	Apr. 30, 2025



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## 1 GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	EC3320,EC3310,EC3340	
BRAND NAME	Edge Computer	
MODEL NAME	EC3320,EC3310,EC3340	
NOMINAL VOLTAGE	DC 12V	
OPERATING FREQUENCY	WLAN	2.412GHz~2.462GHz/5.15-5.25GHz/ 5.725GHz-5.85GHz
	LTE	1850.7MHz ~ 1909.3MHz (FOR LTE Band2) 1710.7MHz ~ 1754.3MHz (FOR LTE Band4) 824.7MHz ~ 848.3MHz (FOR LTE Band5) 2502.5MHz ~ 2567.5MHz (FOR LTE Band7) 699.7MHz ~ 715.3MHz (FOR LTE Band12) 779.5MHz ~ 784.5MHz (FOR LTE Band13) 790.5MHz ~ 795.5MHz (FOR LTE Band14) 706.5MHz ~ 713.5MHz (FOR LTE Band17) 1850.7MHz ~ 1914.3MHz (FOR LTE Band25) 814.7MHz ~ 848.3MHz (FOR LTE Band26) 2307.5MHz ~ 2312.5MHz (FOR LTE Band30) 2572.5MHz ~ 2617.5MHz (FOR LTE Band38) 2498.5MHz ~ 2687.5MHz (FOR LTE Band41) 3552.5MHz ~ 3697.5MHz (FOR LTE Band48) 1710.7MHz ~ 1779.3MHz (FOR LTE Band66) 665.5MHz ~ 695.5MHz (FOR LTE Band71)

HW VERSION	V2.2
SW VERSION	V2.0
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A
ACCESSORY DEVICES	Refer to note as below

#### NOTE:

- \*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown



in test report.

4. list different models numbers on the FCC certificates and reports, as following:

Test Model No.: EC3320

Series Model No.: EC3310, EC3340

These models are the same in these: appearance, PCB layout and basic software function; The only difference is that the products are used in different markets.

**List of Accessory:**

AE (Auxiliary Equipment) 1#: AC Adaptor

Manufacturer	SHENZHEN KUANTEN LIMITED
Model Number	KT241120200CHL
Input Voltage	100V-240V AC
Output Voltage	12V /2A



## 1.2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B		
Standard Section	Test Item	Result
FCC Part 15, Subpart B, Class B ANSI C63.4:2014	Conducted Test	Compliance
	Radiated Emission Test (30MHz ~ 1GHz)	Compliance
	Radiated Emission Test (Above 1GHz)	Compliance

**\*Test Lab Information Reference**

**Lab A:**

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

**Lab Address:**

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

**Accredited Test Lab Cert 6613.01**

The FCC Site Registration No. is 434559; The Designation No. is CN1325.



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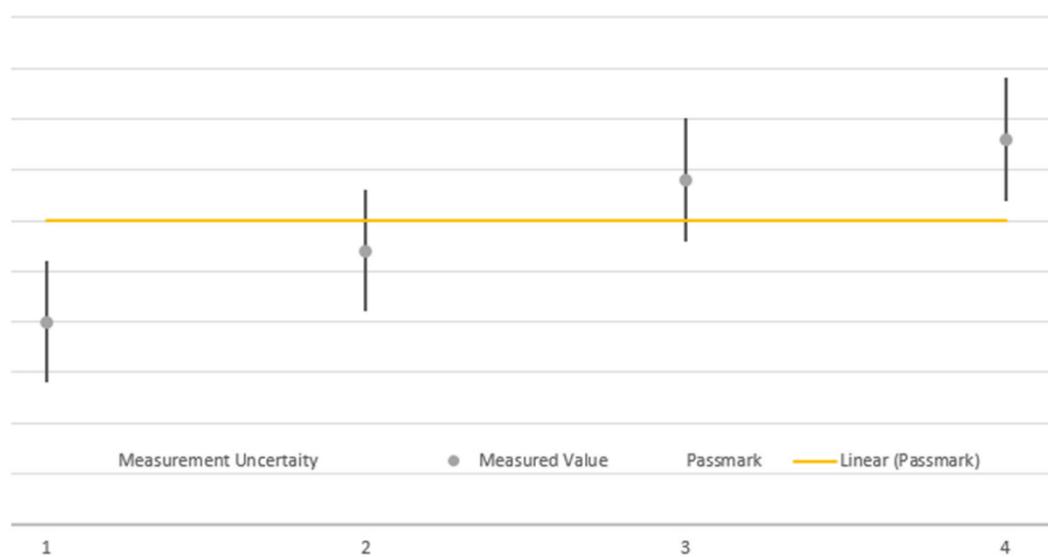
Test Report No.: PSU-NQN2504020112EM01

## 1.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz ~ 30MHz	±2.70dB
	30MHz~1GHz	±4.98dB
	1GHz ~6GHz	±4.70dB
	6GHz ~18GHz	±4.60dB
	18GHz ~40GHz	±4.12dB



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.



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## 1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition
<b>Radiated emission test</b>	
1	Adapter+LTE receiver
<b>Conducted emission test</b>	
1	Adapter+LTE receiver

### NOTE:

1. For conducted emission test, Pre-scan all mode, mode 1 was the worst case and only this mode was presented in this report.
2. For radiated emission test, Pre-scan all mode, test mode 1 was the worst case and only this mode was presented in this report



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## 1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

### FOR ALL TESTS

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	---	---	---	---	---



## 2 EMISSION TEST

### 2.1 CONDUCTED EMISSION MEASUREMENT

#### 2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

##### TEST STANDARD: FCC PART 15, SUBPART B (SECTION: 15.107 A CLASS B)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

##### TEST STANDARD: FCC PART 15, SUBPART B (SECTION: 15.107 B CLASS A)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ V)	
	Quasi-peak	Average
0.15 ~ 0.5	79	66
0.5 ~ 30	73	60

**NOTE:** 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



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## 2.1.2 TEST INSTRUMENTS

No.	Name/Model	Manufacturer	S/N	Calibration Due Date	Calibration Date
1	23.18m×16.88m×9.60mSe mi-AnechoicChamber	FRANKONIA	-----	2028.09.05	2023.09.05
2	ESW EMI test receiver	R&S	101574	2026.03.06	2025.03.06
3	ESR3 EMI test receiver	R&S	102361	2026.03.06	2025.03.06
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	2027.03.25	2022.03.25
5	VULB 9163 Ultra log test antenna	schwarzbeck	727	2025.05.28	2023.05.28
6	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100512	2025.07.20	2023.07.20
7	SAS-574 Horn Antenna	schwarzbeck	535	2025.05.12	2023.05.12
8	ENV216 AMN	R&S	101881	2025.06.21	2024.06.21
9	EMC32EMI test software	R&S	V10	-----	-----

**NOTE:** 1. The test was performed in CE shielded room.



### 2.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

### 2.1.4 DEVIATION FROM TEST STANDARD

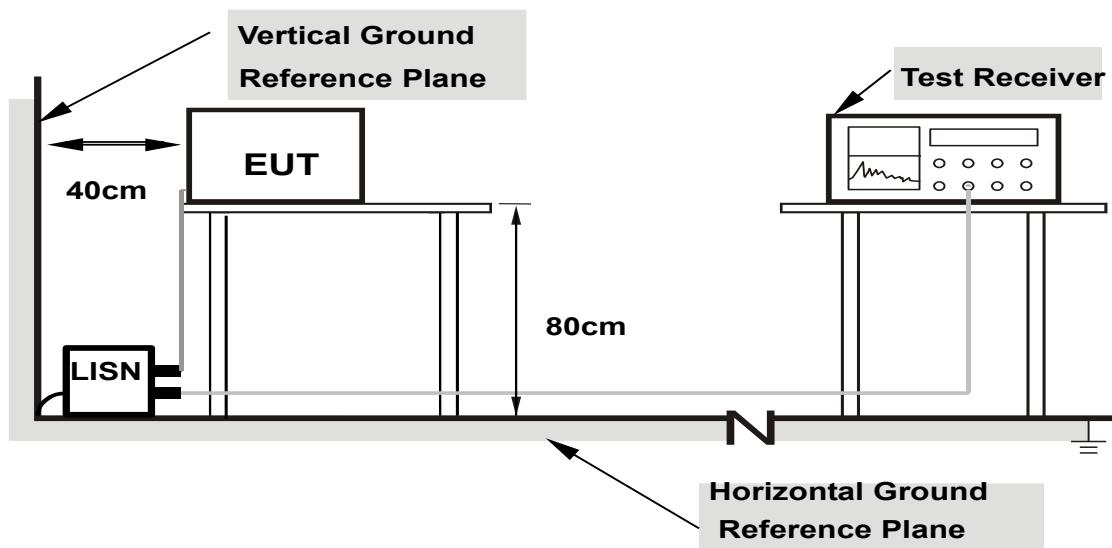
No deviation.

### 2.1.5 TEST SETUP



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**Note:**

1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

## 2.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.

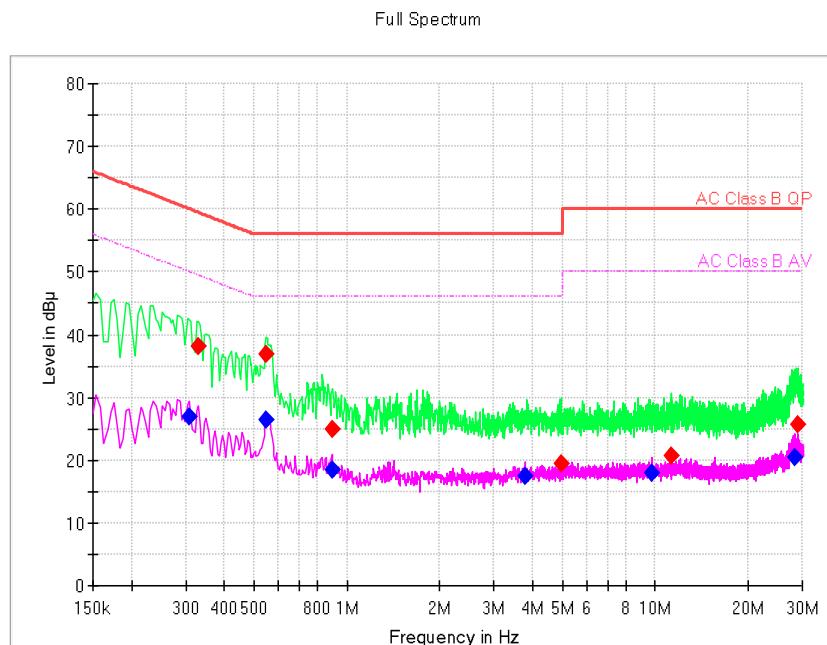


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## 2.1.7 TEST RESULTS

TEST VOLTAGE	Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	22.6deg. C, 40.0%RH	TESTED BY	Hanwen Xu



Pic1. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Average (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dB $\mu$ V)	Pmea Average (dB $\mu$ V)
0.30778	---	26.91	50.03	23.12	L1	29.60	---	-2.69
0.32910	38.15	---	59.47	21.32	L1	29.60	8.55	---
0.54658	---	26.33	46.00	19.67	L1	29.60	---	-3.27
0.54658	36.92	---	56.00	19.08	L1	29.60	7.32	---
0.89625	---	18.41	46.00	27.59	L1	29.60	---	-11.19
0.90051	24.83	---	56.00	31.17	L1	29.60	-4.77	---
3.77038	---	17.41	46.00	28.59	N	29.60	---	-12.19
4.93879	19.56	---	56.00	36.44	L1	29.70	-10.14	---
9.73611	---	17.93	50.00	32.07	N	29.80	---	-11.87
11.32243	20.62	---	60.00	39.38	L1	29.90	-9.28	---
28.25164	---	20.49	50.00	29.51	L1	30.60	---	-10.11
28.84864	25.71	---	60.00	34.29	N	30.60	-4.89	---

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

3. The emission levels of other frequencies were very low against the limit.

4. Sample calculation:  $(26.91\text{dB}\mu\text{V}) = (-2.69\text{dB}\mu\text{V}) + (29.6\text{dB})$ , the corresponding frequency is 0.30778MHz.

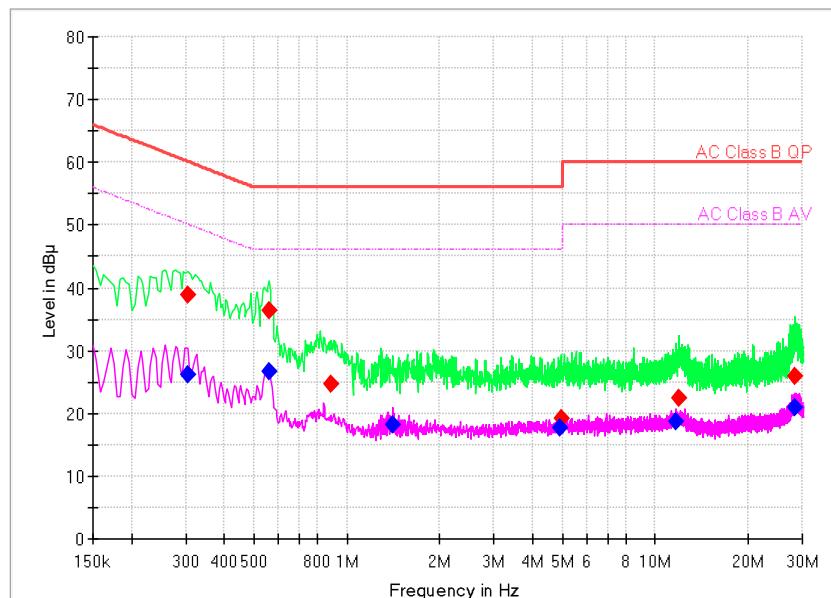


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<b>TEST VOLTAGE</b>	Input 240 Vac, 50 Hz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9 kHz
<b>ENVIRONMENTAL CONDITIONS</b>	22.6deg. C, 40.0%RH	<b>TESTED BY</b>	Hanwen Xu

Full Spectrum



Pic2. Conducted emission L&N Line

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Average (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak	Pmea Average
							(dB $\mu$ V)	(dB $\mu$ V)
0.30351	---	26.27	50.15	23.88	L1	29.60	---	-3.33
0.30351	38.90	---	60.15	21.24	L1	29.60	9.30	---
0.55937	---	26.65	46.00	19.35	L1	29.60	---	-2.95
0.55937	36.42	---	56.00	19.58	L1	29.60	6.82	---
0.89199	24.77	---	56.00	31.23	L1	29.60	-4.83	---
1.40370	---	18.28	46.00	27.72	L1	29.60	---	-11.32
4.91321	---	17.73	46.00	28.27	N	29.60	---	-11.87
4.93453	19.15	---	56.00	36.85	N	29.60	-10.45	---
11.70621	---	18.58	50.00	31.42	N	29.90	---	-11.32
11.94501	22.37	---	60.00	37.63	L1	29.90	-7.53	---
28.34119	---	20.95	50.00	29.05	L1	30.60	---	-9.65
28.37957	25.85	---	60.00	34.15	L1	30.60	-4.75	---



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**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Presult=Pmea+ Corr.(dB).



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## 2.2 RADIATED EMISSION MEASUREMENT

### 2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

#### TEST STANDARD: FCC PART 15, SUBPART B (SECTION: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 3 meters (dB $\mu$ V/m)		
Frequencies (MHz)	FCC 15B, Class A	FCC 15B, Class B
30-88	49	40
88-216	53.5	43.5
216-960	56	46
960-1000	59.5	54
Above 1000	Avg: 59.5 Peak: 79.5	Avg: 54 Peak: 74

#### Frequency Range (For unintentional radiators)

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 40GHz, whichever is lower

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB $\mu$ V/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
4. QP detector shall be applied if not specified.



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## 2.2.2 TEST INSTRUMENTS

No.	Name/Model	Manufacturer	S/N	Calibration Due Date	Calibration Date
1	23.18m×16.88m×9.60mSe mi-AnechoicChamber	FRANKONIA	-----	2028.09.05	2023.09.05
2	ESW EMI test receiver	R&S	101574	2025.03.06	2024.03.06
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5	VULB 9163 Ultra log test antenna	schwarzbeck	727	2025.05.28	2023.05.28
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7	SAS-574 Horn Antenna	schwarzbeck	535	2025.05.12	2023.05.12
8	ENV216 AMN	R&S	101881	2025.06.21	2024.06.21
9	EMC32EMI test software	R&S	V10	-----	-----

**NOTE:** 1. The test was performed in 10m chamber.

2. The FCC Site Registration No. is 434559; The Designation No. is CN1325.



## 2.2.3 TEST PROCEDURE

### <Frequency Range below 1GHz>

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

#### NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. Result=  $P_{mea} + A_{Rpl}$ .
3.  $A_{Rpl}$  (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
4.  $A_{Rpl}$  (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier)



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### <Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. The bore sight should be used during the test above 1GHz.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz

#### NOTE:

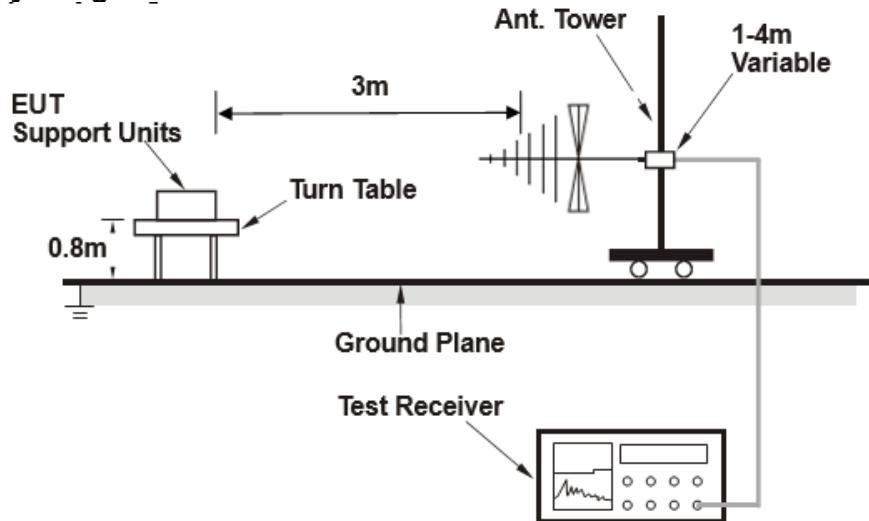
- . The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz.
- . For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- .  $Result = P_{mea} + A_{Rpl}$ .
- .  $A_{Rpl} (dB/m) = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)}$  (if the raw value not contains the amplifier);
- .  $A_{Rpl} (dB/m) = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)} - \text{Amplifier Gain(dB)}$  (if the raw value contains the amplifier)

### 2.2.4 DEVIATION FROM TEST STANDARD

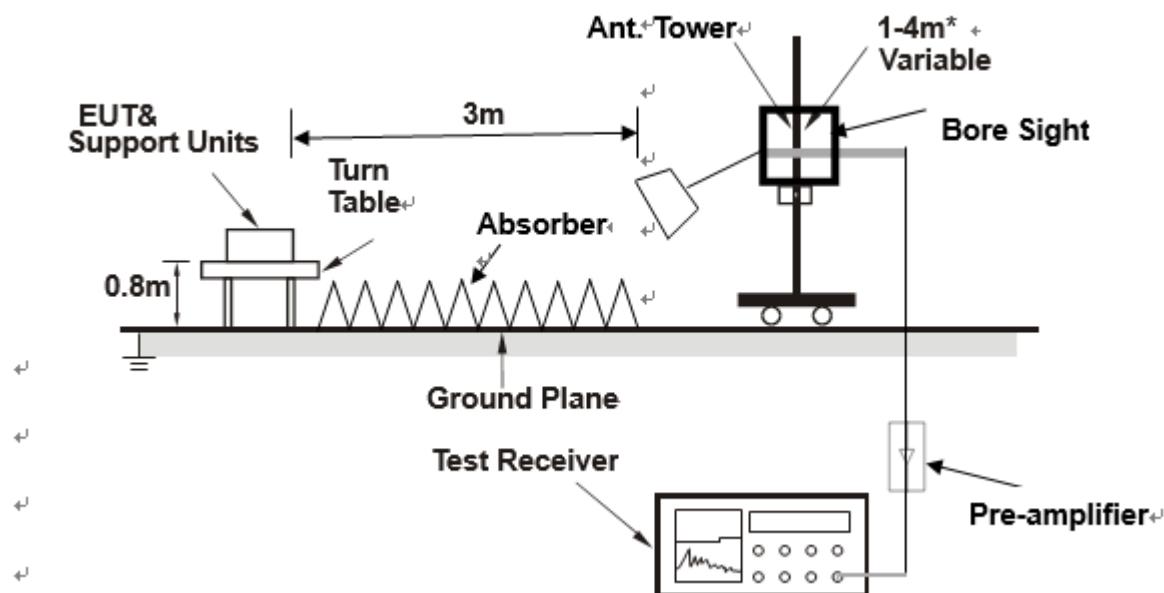
No deviation.

## 2.2.5 TEST SETUP

### <Frequency Range below 1GHz>



### <Frequency Range above 1GHz>



**Note:** Above 1G is a directional antenna

depends on the EUT height and the antenna 3dB bandwidth both, refer to section 7.3 of CISPR 16-2-3.

## 2.2.6 EUT OPERATING CONDITIONS

Same as item 2.1.6.



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## 2.2.7 TEST RESULTS

Note: For frequency above 18GHz, the emission was tested 20db below the limit so not recorded.

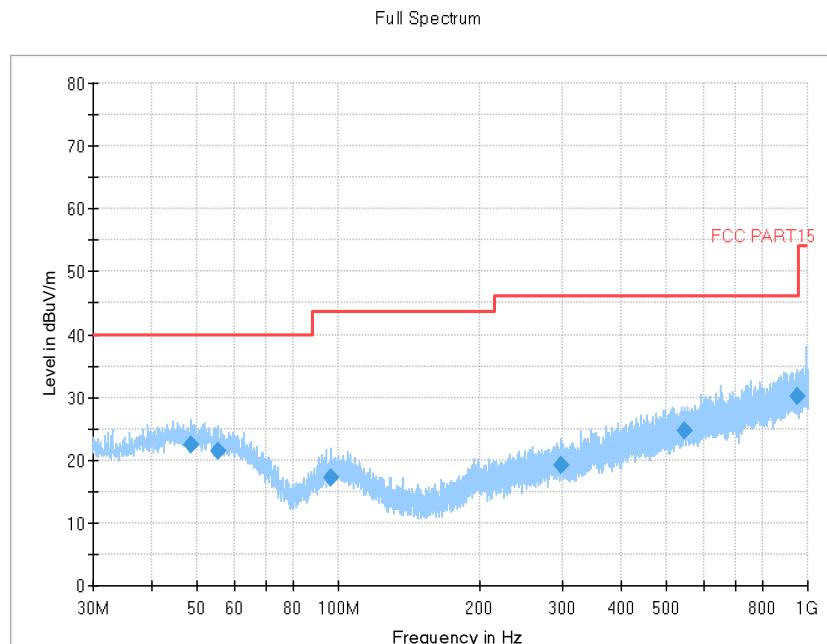
Acceleromete alternative worst case:

TEST VOLTAGE	Input 240 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	22.6deg. C, 40.8%RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Hanwen Xu		

Frequency(MHz)	Result( dB $\mu$ V/m )	Limit (dB $\mu$ V/m)	ARpl (dB)	Pmea ( dB $\mu$ V/m )	Polarity
48.43	22.44	40.0	-15.4	37.84	V
55.22	21.53	40.0	-15.7	37.23	V
96.639	17.22	43.5	-17.8	35.02	V
299.03	19.19	46.0	-14.1	33.29	V
545.458	24.72	46.0	-8.4	33.12	V
952.616	30.13	46.0	-2.1	32.23	V

REMARKS: 1. Result= P<sub>mea</sub> + A<sub>Rpl</sub>.

2. Sample calculation: (22.44dB  $\mu$  V/m) = (37.84dB  $\mu$  V/m) + (-15.4dB), the corresponding frequency is 48.43MHz.



Note: The test data in the graph includes two polarizations: horizontal and vertical

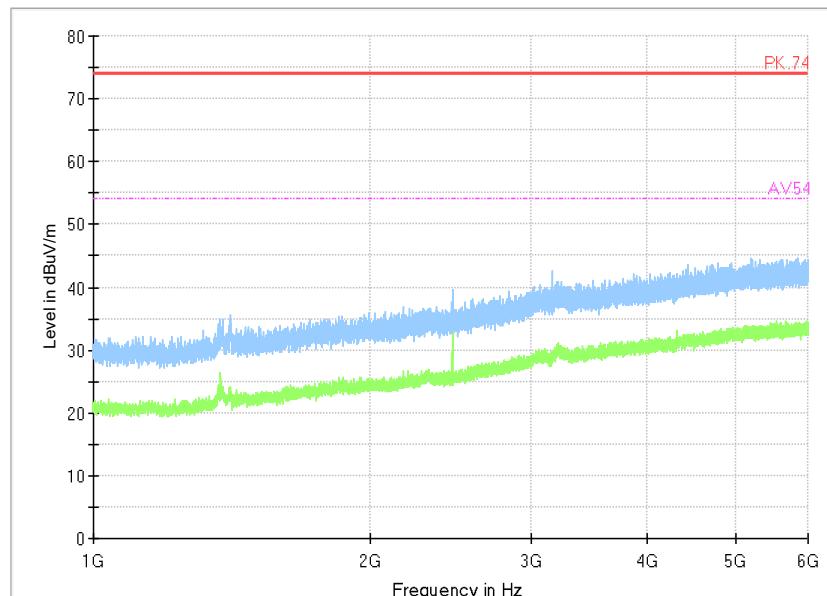


BUREAU  
VERITAS

Test Report No.: PSU-NQN2504020112EM01

TEST VOLTAGE	Input 240 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	22.6deg. C, 40.8%RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Jace Hu		

Full Spectrum



#### Radiated emission (1GHz -6GHz)

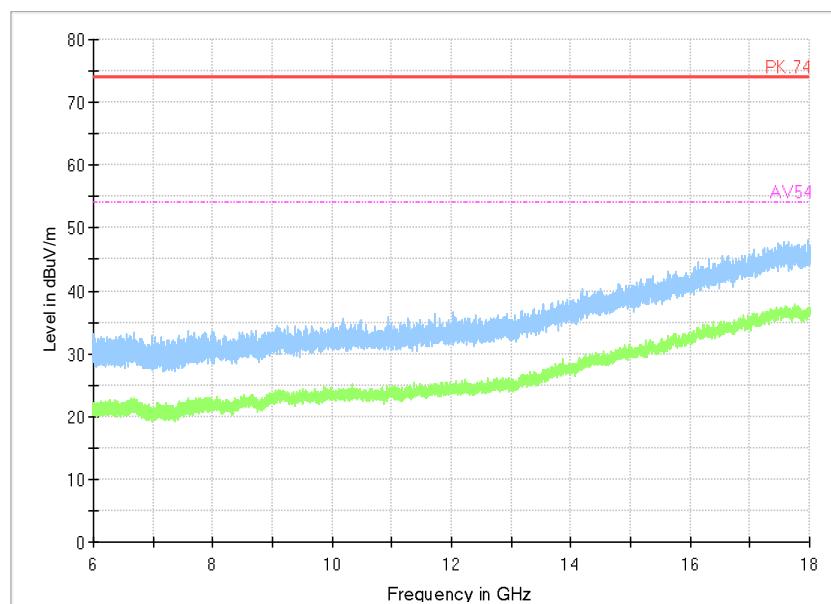
Note: The test data in the graph includes two polarizations: horizontal and vertical.



BUREAU  
VERITAS

Test Report No.: PSU-NQN2504020112EM01

Full Spectrum



#### Radiated emission (6GHz – 18GHz)

Note: The test data in the graph includes two polarizations: horizontal and vertical.



**Test Report No.: PSU-NQN2504020112EM01**

### **3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications were made to the EUT by the lab during the test.

**---END---**