

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart B, Class A

ANSI C63.4-2014 ANSI C63.4a-2017

Report No.: FDBDBO-WTW-P25040665

Product: VTS-1200GU

Brand: Vecow

Model No.: VTS-1000 Series

Series Model: VTS-1XXXXXXXXXXXXXXXXXX ("X" can be 0-9, A-Z or blank for marketing purpose)

Received Date: 2025/4/29

Test Date: 2025/5/2 ~ 2025/5/5

Issued Date: 2025/5/20

Applicant: Vecow Co., Ltd.

Address: 3F, No. 10, Jiankang Rd., Zhonghe Dist., New Taipei City 23586, Taiwan **Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan **Test Location:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

FCC Registration /

Designation Number: 418586 / TW1078

Jim Hsiang / Associate Technical Manager

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Prepared by : Annie Chang / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
FDBDBO-WTW-P25040665	Original release.	2025/5/20

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1 Certificate

Product: VTS-1200GU

Brand: Vecow

Test Model: VTS-1000 Series

Sample Status: Engineering sample

Applicant: Vecow Co., Ltd.

Test Date: 2025/5/2 ~ 2025/5/5

Standard: 47 CFR FCC Part 15, Subpart B, Class A

ANSI C63.4-2014 ANSI C63.4a-2017

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

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2 Summary of Test Results

The test items that the EUT need to perform in accordance with its interfaces, evaluated functions, are as follows:

Standard / Clause		Test Item	Result	Remark
FCC Part 15.107	Conducted Em	issions from Power	Pass	Minimum passing Class A margin is -29.32 dB at 9.25011 MHz
FCC Part 15.109	Radiated Emis	sions up to 1 GHz	Pagg	Minimum passing Class A margin is -4.33 dB at 39.64 MHz
FCC Part 15.109	Radiated Emis	sions above 1 GHz	Pass	Minimum passing Class A margin is -20.82 dB at 7289.02 MHz

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 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:

Measurement	Specification	Expanded Uncertainty (k=2) (±)	Maximum allowable uncertainty (±)	
Conducted Emissions from Power Ports	9 kHz ~ 30 MHz	2.9 dB	3.4 dB (<i>U</i> _{cispr})	
Radiated Emissions up to 1 GHz	30 MHz ~ 1 GHz	5.72 dB	6.3 dB (<i>U</i> cispr)	
Redicted Emissions above 1 CHz	1 GHz ~ 6 GHz	4.86 dB	5.2 dB (<i>U</i> cispr)	
Radiated Emissions above 1 GHz	6 GHz ~ 18 GHz	4.72 dB	5.5 dB (<i>U</i> cispr)	

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

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3 General Information

3.1 Description of EUT

Product	VTS-1200GU
Brand	Vecow
Test Model	VTS-1000 Series
Series Model	VTS-1XXXXXXXXXXXXXXX ("X" can be 0-9, A-Z or blank for marketing purpose)
Model Difference	Marketing Differentiation
Sample Status	Engineering sample
Power Supply Rating	Refer to note as below

Note:

The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter	LITEON		AC Input: 100-240V, 2.0A, 50-60Hz DC Output: 24.0V, 5.0A, 120W Shielded AC 3 pin cable (1.8m) Shielded DC cable (2.5m, with one core)

3.2 Primary Clock Frequencies of Internal Source

The highest frequency generated or used within the EUT or on which the EUT operates or tunes is 1.5 GHz, provided by Vecow Co., Ltd., for detailed internal source, please refer to the manufacturer's specifications.

3.3 Features of EUT

1. The tests reported herein were performed according to the method specified by Vecow Co., Ltd., for detailed feature description, please refer to the manufacturer's specifications or user's manual.

Please refer to appendix of the report if the applicant has provided additional descriptions of the EUT.

2. The EUT was configured with the following key components:

Item	Description
CPU	CPU Quad-core Arm Cortex-A53 MPCore™ up to 1.5 GHz

3.4 Operating Modes of EUT and Determination of Worst Case Operating Mode

Test modes are presented in the report as below.

	Test Condition				
Mode	Conducted Emissions from Power Ports				
Α	Full system + Input Power(120 Vac, 60 Hz)				
В	Full system + Input Power(240 Vac, 60 Hz)				
Mode	Radiated Emissions up to 1 GHz				
Α	Full system + Input Power(120 Vac, 60 Hz)				
Mode	Radiated Emissions above 1 GHz				
Α	Full system + Input Power(120 Vac, 60 Hz)				

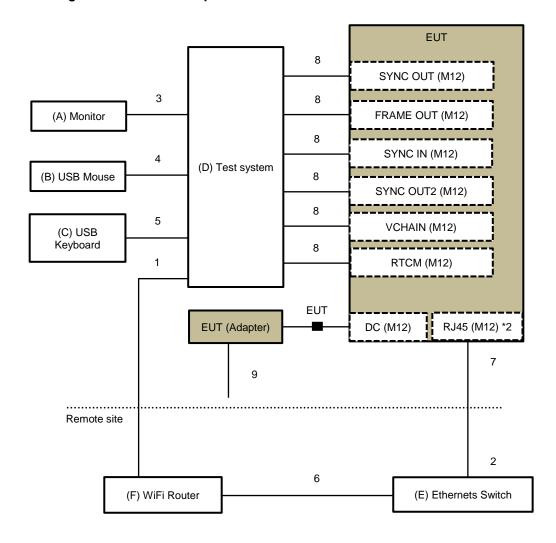
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3.5 Test Program Used and Operation Descriptions

- a. Turned on the power of all equipment.
- b. Test system sent (H) message to Monitor, and then displayed on its screen.
- c. Test system sent and received messages to/ from EUT via Router.
- d. Test system sent and received messages to/ from EUT via signal cable.

3.6 Connection Diagram of EUT and Peripheral Devices





3.7 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
Α	Monitor	DELL	U2410	CN082WXD728720 CC0KVL	DoC	Provided by Lab
В	USB Mouse	DELL	MOCZUL	CN-049TWY- PRC00-77B-0083	N/A	Provided by Lab
С	USB Keyboard	Dell	KB216t	CN-0W33XP- LO300-7CL-191E	N/A	Provided by Lab
		Raspberry Pi	27W USB-C Power Suuply US	N/A	N/A	Supplied by applicant
D	Test system	u-blox	EVB-C099-F9P	N/A	N/A	Supplied by applicant
		Vecow	SPC-5600	N/A	N/A	Supplied by applicant
		Transcend	Transcend hub	N/A	N/A	Supplied by applicant
Е	Ethernets Switch	NETGEAR	GS308P	4F21955800796	DoC	Provided by Lab
F	WiFi Router	netis	WF2780	N/A	DoC	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Cat. 5e	2	10	N	0	Provided by Lab
2	Cat. 5e	2	10	Υ	0	Provided by Lab
3	DP	1	1.8	Υ	0	Provided by Lab
4	USB	1	1.8	Υ	0	Provided by Lab
5	USB	1	1.8	Υ	0	Provided by Lab
6	Cat. 5e	1	3	N	0	Provided by Lab
7	Cat. 6a	2	2	Υ	0	Supplied by applicant
8	Signal	6	1.8	Y	0	Supplied by applicant
9	Power	1	1.8	Y	0	Supplied by applicant

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4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Conducted Emissions from Power Ports

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	0000540	E1-011284	2024/9/16	2025/9/15
LYNICS	0900510	E1-011285	2024/9/25	2025/9/24
EMI Test Receiver	ESR3	102412	2024/12/26	2025/12/25
R&S	ESKS	102414	2024/12/11	2025/12/10
Fixed Attenuator STI	STI02-2200-10	NO.4	2024/8/30	2025/8/29
High Voltage Probe Schwarzbeck	TK9420	00982	2024/12/6	2025/12/5
LISN R&S	ENV216	101196	2024/5/22	2025/5/21
	NINII IZ 0404	8121-731	2024/6/12	2025/6/11
LISN	NNLK 8121	8121-808	2025/4/23	2026/4/22
Schwarzbeck	NNLK 8129	8129229	2024/10/14	2025/10/13
	NSLK 8128	8128-244	2024/11/11	2025/11/10
Passive Voltage Probe R&S	ESH2-Z3	100073	2024/5/16	2025/5/15
RF Coaxial Cable PEWC	5D-FB	Cable-CO5-01	2025/1/17	2026/1/16
Software BVADT	Cond_V7.4.1.0	N/A	N/A	N/A

Notes:

- 1. The test was performed in Linkou Conduction 5.
- 2. The VCCI Site Registration No. C-11093.
- 3. Tested Date: 2025/5/5

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4.2 Radiated Emissions up to 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-717	2024/10/9	2025/10/8
Coupling / Decoupling Network	CDNE-M2	00097	2024/5/28	2025/5/27
Schwarzbeck	CDNE-M3	00091	2025/3/20	2026/3/19
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-CH7-01	2025/1/15	2026/1/14
MXE EMI Receiver Agilent	N9038A	MY50010135	2024/9/11	2025/9/10
Preamplifier HP	8447D	2944A08118	2025/2/5	2026/2/4
RF Coaxial Cable Pacific	8D-FB	Cable-CH7-01	2024/12/31	2025/12/30
Software BVADT	Radiated_V8.8.09	N/A	N/A	N/A
Turn Table & Tower Max Full.	MF7802	MF780208103	N/A	N/A

Notes:

- 1. The test was performed in Linkou 966 Chamber 2 (CH 7) ,The test site validated date: 2024/6/1 (NSA)
- The VCCI Site Registration No. R-20008.
 Tested Date: 2025/5/2

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Radiated Emissions above 1 GHz 4.3

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fix tool for Boresight antenna tower BV	BAF-01	4	N/A	N/A
Fixed Attenuator	BW-K3-2W44+	PAD-CH7-03	2024/7/5	2025/7/4
Mini-Circuits	BW-N4W5+	PAD-CH7-02	2024/7/5	2025/7/4
Horn Antenna EMCO	3115	9312-4192	2024/11/10	2025/11/9
Horn Antenna ETS-Lindgren	3117-PA	00215857	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170190	2024/11/10	2025/11/9
MXA Signal Analyzer	N9020B	MY60110438	2024/12/5	2025/12/4
Keysight	N9UZUD	MY60112260	2024/5/29	2025/5/28
Notch Filter	BRC50703-01	010	2024/5/24	2025/5/23
Micro-Tronics	BRM17690	005	2024/5/24	2025/5/23
Des annulifier	EMC0126545	980076	2025/2/14	2026/2/13
Preamplifier EMCI	EMC40404ED	980175	2024/8/25	2025/8/24
EIVICI	EMC184045B	980235	2025/2/14	2026/2/13
RF Coaxial Cable EMEC	EM102-KMKM	01	2024/7/5	2025/7/4
RF Coaxial Cable HUBER+SUHNER	SF-102	Cable-CH7(3m)-02	2024/7/5	2025/7/4
Software BVADT	Radiated_V8.8.09	N/A	N/A	N/A
Turn Table & Tower Max Full	MF7802	MF780208103	N/A	N/A

Notes:

- The test was performed in Linkou 966 Chamber 2 (CH 7).
 The VCCI Site Registration No. G-10039.
 Tested Date: 2025/5/2

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5 Limits of Test Items

5.1 Conducted Emissions from Power Ports

Fraguency (MHz)	Class A	(dBuV)	Class B (dBuV)		
Frequency (MHz)	Quasi-peak	Average	Quasi-peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.50 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

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

5.2 Radiated Emissions up to 1 GHz

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

	Radiated Emissions Limits at 10 meters (dBµV/m)									
Frequencies (MHz)	FCC 15B, Class A	FCC 15B, Class B	CISPR 22, Class A	CISPR 22, Class B						
30-88	39.1	29.5								
88-216	43.5	33.1	40	30						
216-230	40.4									
230-960	46.4	35.6	47	27						
960-1000	49.5	43.5	47	37						

	Radiated Emissions Limits at 3 meters (dBµV/m)									
Frequencies (MHz)	FCC 15B, Class A	FCC 15B, Class B	CISPR 22, Class A	CISPR 22, Class B						
30-88	49.5	40.0								
88-216	54.0	43.5	50.5	40.5						
216-230	F6 0	46.0								
230-960	56.9	46.0	57.5	47.5						
960-1000	60.0	54.0	57.5	47.5						

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

5.3 Radiated Emissions above 1 GHz

Frequency Range (For unintentional radiators)

- requestey rearige (r er armiterial realiaters)	
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	5th harmonic of the highest frequency or 40GHz, whichever is lower

Radiated Emissions Limits at 3 meters (dBµV/m)								
Frequency range Class A Class B								
Above 1GHz	Avg: 60 Peak: 80	Avg: 54 Peak: 74						

Notes: 1. These limit levels apply for a measurement distance of 3 m. If using a different measurement distance, the measured levels shall be extrapolated to the 3 m limit distance using a factor of 20 dB per decade of distance. The measurement distance shall place the measurement antenna in the far field of the ITE or digital apparatus under test.

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^{2.} The limit decreases linearly with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

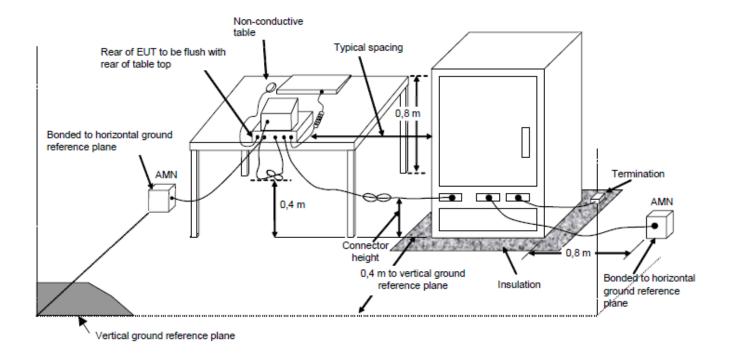


6 Test Arrangements

6.1 Conducted Emissions from Power Ports

- a. For the table-top EUT is placed on a 0.8 meter insulation table; for the floor standing EUT shall be insulated (by insulation of 12 mm) from the horizontal reference ground plane. The EUT is 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 are connected to the power mains through another LISN. They provide 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 test results of conducted emissions at mains ports are recorded of six worst margins for quasi-peak (mandatory) [and average (if necessary)] values against the limits at frequencies of interest unless the margin is 20 dB or greater.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

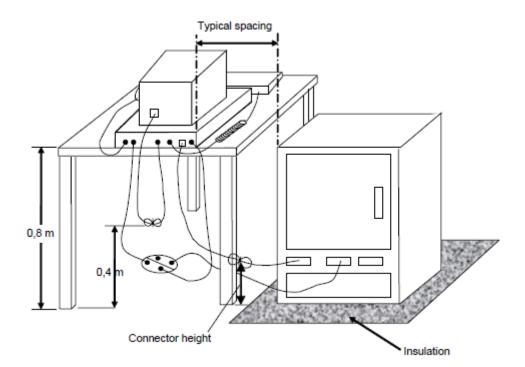
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6.2 Radiated Emissions up to 1 GHz

- a. For the table-top EUT is placed on a 0.8 meter to the top of rotating table; for the floor standing EUT shall be insulated (by insulation of 12 mm) from the horizontal reference ground plane. The rotating table is rotated 360 degrees to determine the position of the highest radiation. If the equipment requires a dedicated ground connection, this shall be provided and bonded to the RGP.
- 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 antenna is a broadband antenna, and its height 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.
- 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 up to 1 GHz.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency up to 1GHz.



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

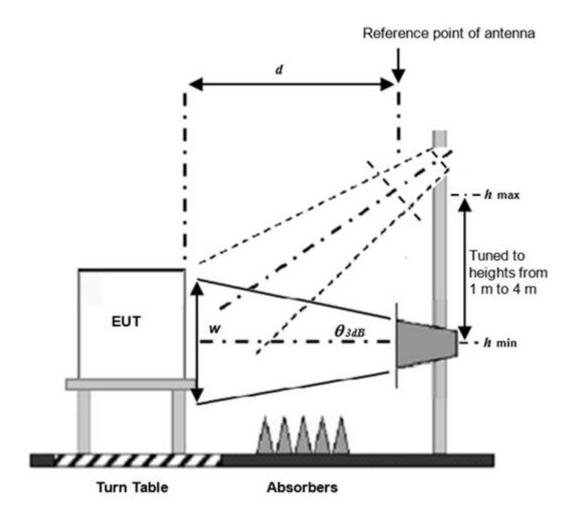
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6.3 Radiated Emissions above 1 GHz

- a. For the table-top EUT is placed on a 0.8 meter to the top of rotating table; for the floor standing EUT shall be insulated (by insulation of 12 mm) from the horizontal reference ground plane. The rotating table is rotated 360 degrees to determine the position of the highest radiation. If the equipment requires a dedicated ground connection, this shall be provided and bonded to the RGP.
- b. The EUT was set d = 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 can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The spectrum analyzer system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

Note: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection (PK) at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

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7 Test Results of Test Item

7.1 Conducted Emissions from Power Ports

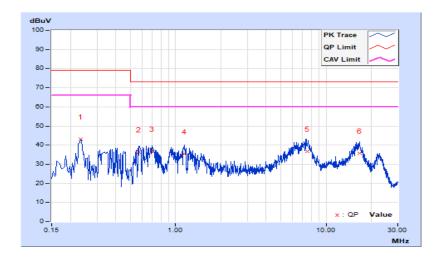
Mode A

Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	27 °C, 79 % RH, 999 mbar
Tested by	Kenny Chang		

	Phase Of Power : Line (L)										
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.23408	9.96	32.99	24.97	42.95	34.93	79.00	66.00	-36.05	-31.07	
2	0.57042	9.97	26.46	8.73	36.43	18.70	73.00	60.00	-36.57	-41.30	
3	0.70219	9.99	26.56	16.04	36.55	26.03	73.00	60.00	-36.45	-33.97	
4	1.14211	10.01	25.21	12.00	35.22	22.01	73.00	60.00	-37.78	-37.99	
5	7.50229	10.19	26.51	17.90	36.70	28.09	73.00	60.00	-36.30	-31.91	
6	16.72231	10.39	25.38	16.11	35.77	26.50	73.00	60.00	-37.23	-33.50	

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



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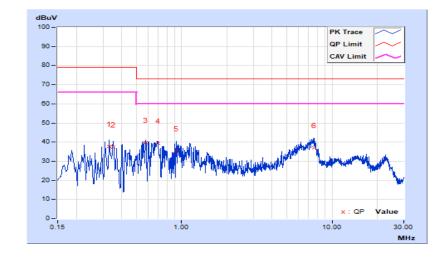


			VERITAS
Eroguanov Banga	150 kHz ~ 30 MHz	Detector Function &	Quasi-Peak (QP) /
Frequency Range	130 KHZ ~ 30 WHZ	Resolution Bandwidth	Average (AV), 9 kHz
Innut Bower	120 Vac, 60 Hz	Environmental	27 °C, 79 % RH, 998.9 mbar
Input Power	120 Vac, 60 H2	Conditions	27 C, 79 % KH, 996.9 IIIDai
Tested by	Kenny Chang		

	Phase Of Power : Neutral (N)										
No	Frequency	Correction Factor		•		ssion Level Limit (dBuV) (dBuV)			Margin (dB)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.33025	9.96	27.72	14.97	37.68	24.93	79.00	66.00	-41.32	-41.07	
2	0.35014	9.97	27.48	15.74	37.45	25.71	79.00	66.00	-41.55	-40.29	
3	0.57798	9.98	29.81	20.63	39.79	30.61	73.00	60.00	-33.21	-29.39	
4	0.69409	9.99	29.52	20.53	39.51	30.52	73.00	60.00	-33.49	-29.48	
5	0.92217	10.00	25.44	12.52	35.44	22.52	73.00	60.00	-37.56	-37.48	
6	7.57027	10.19	26.73	17.08	36.92	27.27	73.00	60.00	-36.08	-32.73	

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



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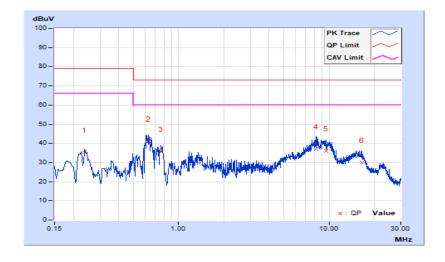
Mode B

Frequency Range	1.15() kHz ~ 3() MHz		Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	1240 Vac 60 Hz	Environmental Conditions	27 °C, 79 % RH, 998.6 mbar
Tested by	Kenny Chang		

	Phase Of Power : Line (L)										
No	Frequency	Correction Factor	Reading Value (dBuV)		•			Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.23808	9.96	25.55	19.46	35.51	29.42	79.00	66.00	-43.49	-36.58	
2	0.63007	9.98	31.07	11.15	41.05	21.13	73.00	60.00	-31.95	-38.87	
3	0.75811	9.99	25.84	12.66	35.83	22.65	73.00	60.00	-37.17	-37.35	
4	8.19026	10.20	26.71	19.23	36.91	29.43	73.00	60.00	-36.09	-30.57	
5	9.61818	10.24	25.81	18.36	36.05	28.60	73.00	60.00	-36.95	-31.40	
6	16.41029	10.38	19.72	13.68	30.10	24.06	73.00	60.00	-42.90	-35.94	

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



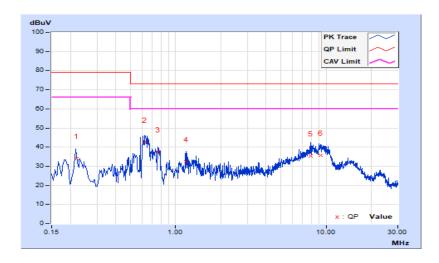


			VERITAS
Frequency Range	1.150 kHz ~ 30 MHz	Detector Function &	Quasi-Peak (QP) /
		Resolution Bandwidth	Average (AV), 9 kHz
Innut Dower	1240 Vac 60 Hz	Environmental	27 °C, 79 % RH, 998.7 mbar
Input Power		Conditions	27 C, 79 % KH, 996.7 Hibai
Tested by	Kenny Chang		

	Phase Of Power : Neutral (N)									
No	Frequency	Correction Factor		eding Value Emission Level (dBuV)		Limit (dBuV)		Margin (dB)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.21827	9.95	23.89	17.76	33.84	27.71	79.00	66.00	-45.16	-38.29
2	0.62223	9.98	32.48	12.68	42.46	22.66	73.00	60.00	-30.54	-37.34
3	0.76222	9.99	27.33	14.00	37.32	23.99	73.00	60.00	-35.68	-36.01
4	1.17407	10.02	22.24	9.91	32.26	19.93	73.00	60.00	-40.74	-40.07
5	7.89407	10.20	25.06	17.49	35.26	27.69	73.00	60.00	-37.74	-32.31
6	9.25011	10.23	25.56	20.45	35.79	30.68	73.00	60.00	-37.21	-29.32

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



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7.2 Radiated Emissions up to 1 GHz

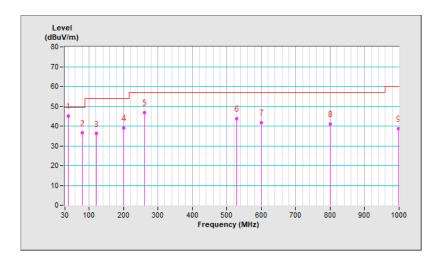
Mode A

Frequency Range	130 MHZ ~ 1 GHZ	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120 kHz
Input Power	1120 Vac 60 Hz	Environmental Conditions	26 °C, 71 % RH, 1001.8 mbar
Tested By	Desmond Chen		

	Antenna Polarity & Test Distance : Horizontal at 3 m									
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	39.64	45.17 QP	49.50	-4.33	2.49 H	122	54.58	-9.41		
2	81.05	36.48 QP	49.50	-13.02	3.89 H	230	50.37	-13.89		
3	120.57	36.16 QP	54.00	-17.84	3.61 H	60	46.81	-10.65		
4	199.81	38.96 QP	54.00	-15.04	2.52 H	254	50.48	-11.52		
5	261.73	46.89 QP	56.90	-10.01	3.86 H	10	55.50	-8.61		
6	529.06	43.67 QP	56.90	-13.23	2.95 H	34	46.62	-2.95		
7	600.00	41.72 QP	56.90	-15.18	3.62 H	188	42.83	-1.11		
8	800.02	41.04 QP	56.90	-15.86	2.22 H	195	38.82	2.22		
9	999.00	38.75 QP	60.00	-21.25	2.15 H	232	33.63	5.12		

Remarks:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 - Pre-Amplifier Factor (dB)
- 3. Margin value = Emission level Limit value
- 4. The other emission levels were very low against the limit.



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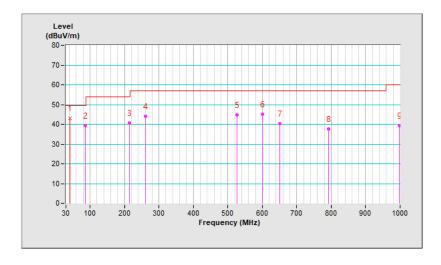


			VERITAS
Eroguanay Banga	30 MHz ~ 1 GHz	Detector Function &	Quasi-Peak (QP), 120 kHz
Frequency Range	30 MHZ ~ 1 GHZ	Resolution Bandwidth	Quasi-Peak (QP), 120 kHz
Input Power	120 \/00 60 Hz	Environmental	26 °C, 71 % RH, 1001.9 mbar
Input Power	120 Vac, 60 Hz	Conditions	20 C, 71 % KH, 1001.9 IIIbai
Tested By	Desmond Chen		

	Antenna Polarity & Test Distance : Vertical at 3 m									
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	40.99	42.99 QP	49.50	-6.51	2.29 V	42	52.21	-9.22		
2	86.32	39.49 QP	49.50	-10.01	1.46 V	97	54.10	-14.61		
3	214.17	40.72 QP	54.00	-13.28	1.34 V	245	52.06	-11.34		
4	261.64	44.17 QP	56.90	-12.73	2.86 V	65	52.80	-8.63		
5	526.70	44.87 QP	56.90	-12.03	2.98 V	224	47.85	-2.98		
6	600.00	45.08 QP	56.90	-11.82	1.11 V	186	46.19	-1.11		
7	649.99	40.41 QP	56.90	-16.49	1.39 V	76	40.72	-0.31		
8	791.81	37.67 QP	56.90	-19.23	1.97 V	298	35.77	1.90		
9	999.00	39.38 QP	60.00	-20.62	2.51 V	176	34.26	5.12		

Remarks:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 - Pre-Amplifier Factor (dB)
- 3. Margin value = Emission level Limit value
- 4. The other emission levels were very low against the limit.



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7.3 Radiated Emissions above 1 GHz

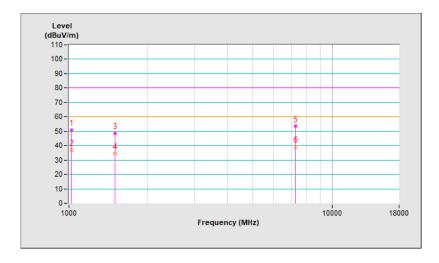
Mode A

Frequency Range	11 (iHz ~ / 5 (iHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1 MHz
Input Power	1120 Vac. 60 Hz	Environmental Conditions	26 °C, 71 % RH, 1000.8 mbar
Tested By	Peter Lin		

	Antenna Polarity & Test Distance : Horizontal at 3 m									
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	1026.32	50.93 PK	80.00	-29.07	2.08 H	147	56.90	-5.97		
2	1026.32	36.97 AV	60.00	-23.03	2.08 H	147	42.94	-5.97		
3	1499.91	48.61 PK	80.00	-31.39	1.96 H	19	51.80	-3.19		
4	1499.91	34.47 AV	60.00	-25.53	1.96 H	19	37.66	-3.19		
5	7282.18	53.40 PK	80.00	-26.60	1.19 H	360	43.72	9.68		
6	7282.18	39.17 AV	60.00	-20.83	1.19 H	360	29.49	9.68		

Remarks:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 - Pre-Amplifier Factor (dB)
- 3. Margin value = Emission level Limit value
- 4. The other emission levels were very low against the limit.



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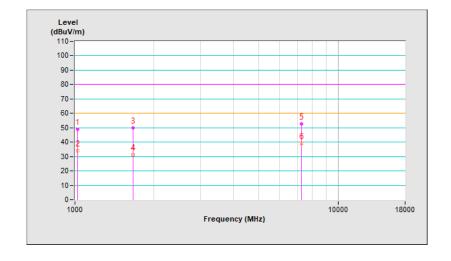


			VERTIAS
Frequency Range	1 GHz ~ 7.5 GHz	Detector Function &	Peak (PK) / Average (AV), 1 MHz
Frequency Kange	1 GHZ ~ 7.3 GHZ	Resolution Bandwidth	reak (FK) / Average (Av), 1 Will2
Input Power	120 Vac. 60 Hz	Environmental	26 °C, 71 % RH, 1000.9 mbar
	120 Vac, 60 Hz	Conditions	20 C, 71 % KH, 1000.9 IIIbai
Tested By	Peter Lin		

	Antenna Polarity & Test Distance : Vertical at 3 m									
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	1023.79	49.00 PK	80.00	-31.00	1.05 V	232	55.00	-6.00		
2	1023.79	34.07 AV	60.00	-25.93	1.05 V	232	40.07	-6.00		
3	1664.86	49.95 PK	80.00	-30.05	1.53 V	170	52.54	-2.59		
4	1664.86	31.34 AV	60.00	-28.66	1.53 V	170	33.93	-2.59		
5	7289.02	52.82 PK	80.00	-27.18	1.89 V	178	43.12	9.70		
6	7289.02	39.18 AV	60.00	-20.82	1.89 V	178	29.48	9.70		

Remarks:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 - Pre-Amplifier Factor (dB)
- 3. Margin value = Emission level Limit value
- 4. The other emission levels were very low against the limit.



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8 Pictures of Test Arrangements

8.1 Conducted Emissions from Power Ports

Mode A







Mode B

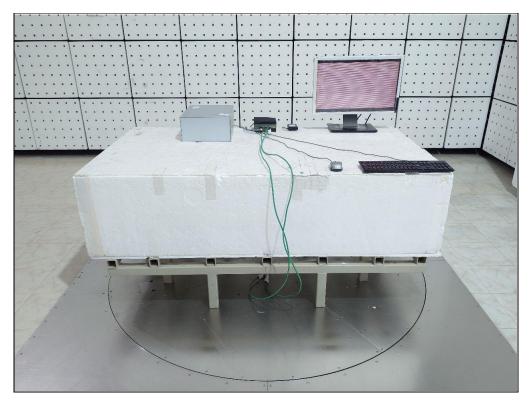


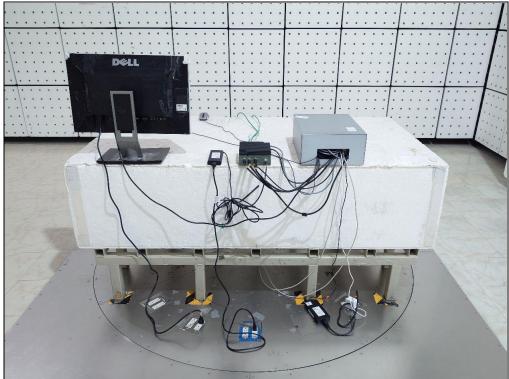




8.2 Radiated Emissions up to 1 GHz

Mode A

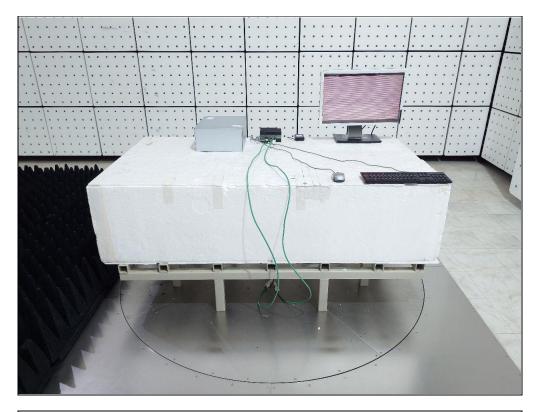


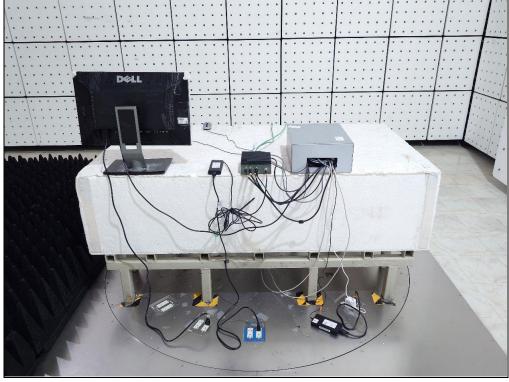




8.3 Radiated Emissions above 1 GHz

Mode A







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9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

Hsin Chu EMC/RF/Telecom Lab

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Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@bureauveritas.com
Web Site: http://ee.bureauveritas.com.tw

The address and road map of all our labs can be found in our web site also.

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