TEST REPORT

CERTIFICATE OF CONFORMITY

Standards:	**47 CFR FCC Part 15, Subpart B, Class B** **ANSI C63.4:2014**
Report No.:	FDBEEO-WTW-P21051050A
Test Model:	ESOM-MT-500
Serial Model:	ESOM-MT-500 Series, ESOM-MT-5XXXXXXXXXXXXXXX ("X" can be 0-9, A-Z, or blank for marketing purposes) (refer to item 3.1 for more details)
Received Date:	May 27, 2021
Test Date:	Jun. 28 ~ Jul. 03, 2021
Issued Date:	Mar. 18, 2022

Applicant:	Vecow Co., Ltd.
Address:	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. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN
FCC Registration / Designation Number:	328930 / TW1050

Approved by : _____ , **Date:** **Mar. 18, 2022**

Ace Wu / Project Engineer

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Testing Laboratory
2021

Prepared by : Jessie Kuo / Specialist

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Release Control Record

Issue No.	Description	Date Issued
FDBEEO-WTW-P21051050A	Original release.	Mar. 18, 2022

1 Certification

Product:	Arm-Based System on Module
Brand:	Vecow
Test Model:	ESOM-MT-500
Serial Model:	ESOM-MT-500 Series, ESOM-MT-5XXXXXXXXXXXXXXX (“X” can be 0-9, A-Z, or blank for marketing purposes) (refer to item 3.1 for more details)
Sample Status:	Engineering sample
Applicant:	Vecow Co., Ltd.
Test Date:	Jun. 28 ~ Jul. 03, 2021
Standards:	47 CFR FCC Part 15, Subpart B, Class B ANSI C63.4:2014

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.

2 Summary of Test Results

FCC Part 15 Clause	Test Item	Result/Remarks	Verdict
15.107	Conducted Emissions from input power ports	Minimum passing Class B margin is -11.72 dB at 23.13000 MHz	Pass
15.109	Radiated Emissions up to 1 GHz	Minimum passing Class B margin is -2.83 dB at 162.51 MHz	Pass
	Radiated Emissions above 1 GHz	Minimum passing Class B margin is -12.78 dB at 2079.23 MHz	Pass

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:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.79 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	4.14 dB
Radiated Emissions above 1 GHz	Above 1GHz	5.04 dB

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

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 Description of EUT

Product	Arm-Based System on Module
Brand	Vecow
Test Model	ESOM-MT-500
Series Model:	ESOM-MT-500 Series, ESOM-MT-5XXXXXXXXXXXXXX (“X” can be 0-9, A-Z, or blank for marketing purposes)
Model Difference	Refer to note
Status of EUT	Engineering sample
Operating Software	N/A
Power Supply Rating	Refer to note
Accessory Device	Adapter
Data Cable Supplied	N/A

Note: The EUT consumes power from the following adapter.

Brand	FSP GROUP INC.
Model	FSP036-RBBN2
Input Power	100-240Vac,1.2A, 50-60Hz
Output Power	12Vdc, 3.0A
Power Line	1.48m shielded power cable with one core

Note:

1. This report is issued as a duplicate report to BV CPS report no.: FDBEEO-WTW-P21051050. The difference compared with original report are changing applicant, model, and product name. Due to no effect on any test item, no re-test is performed.
2. All models are listed as below. Model ESOM-MT-500 is the representative for final test.

Brand	Model	Description
Vecow	ESOM-MT-500	“X” can be 0-9, A-Z, or blank for marketing purposes
	ESOM-MT-500 Series	
	ESOM-MT-5XXXXXXXXXXXXXX	

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 2GHz provided by Vecow Co., Ltd., for detailed internal source, please refer to the manufacturer's specifications.

3.3 Features of EUT

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.

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

The EUT consumes power from adapter of rating 100-240Vac, 50-60Hz.

For radiated emission test, the EUT has been pre-tested under following test modes, and test mode 1 was the worst case for final test.

Mode	Test Condition
1	EUT + HDMI with Monitor + LAN Link + USB Mouse + Earphone + adapter, 240Vac/60Hz
2	EUT + HDMI with Monitor + LAN Link + USB Mouse + Earphone + adapter, 120Vac/60Hz

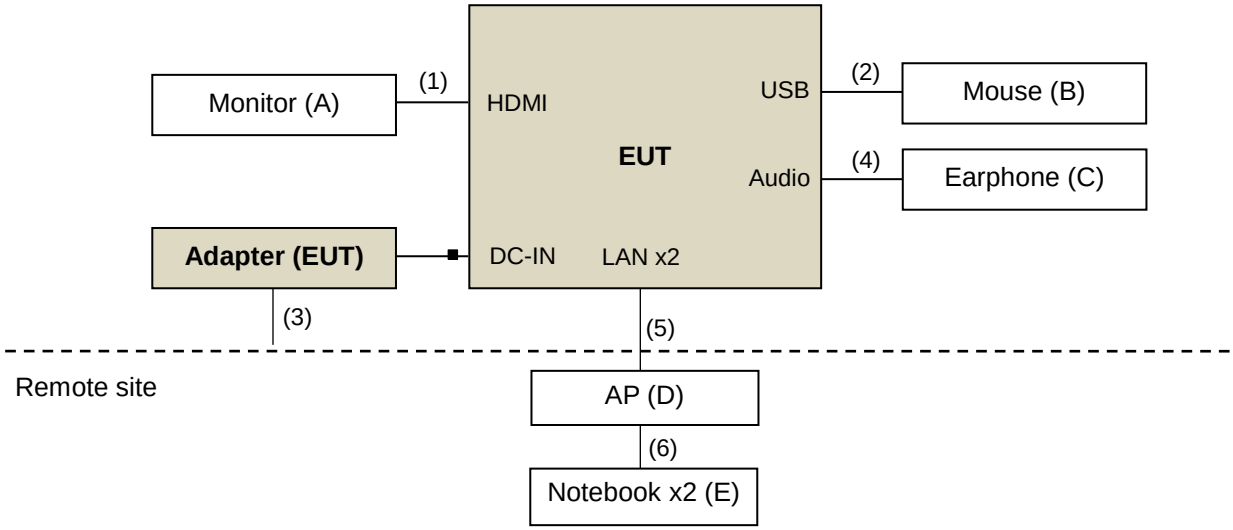
Test modes are presented in the report as below.

Mode	Test Condition
Conducted emission test	
-	EUT + HDMI with Monitor + LAN Link + USB Mouse + Earphone + adapter
Radiated emission up to 1GHz test	
-	EUT + HDMI with Monitor + LAN Link + USB Mouse + Earphone + adapter
Radiated emission above 1GHz test	
-	EUT + HDMI with Monitor + LAN Link + USB Mouse + Earphone + adapter

3.5 Test Program Used and Operation Descriptions

a. Placed the EUT on the test table and it was powered by adapter.
b. EUT linked with earphone via audio cable and linked with monitor via HDMI cable.
c. Prepared notebooks and AP, which act as communication partners and placed them outside of test area.
d. The communication partners sent data via LAN by command “Ping”.

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
A.	Monitor	DELL	U2713HM	CN-07JNY5-74445-38T-400S	FCC DoC Approved	--
B.	Mouse	DELL	MOCZUL	CN-049TWY-PRC00-79E-02GB	FCC DoC Approved	--
C.	Earphone	APPLE	MB770FE/B	NA	NA	--
D.	AP	D-link	DIR-810L	QBXP1D4002040	NA	--
E.	Notebook x2	DELL	E6440	6QLNM32	FCC DoC Approved	--
				FMLNM32		--

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Items E acted as communication partners to transfer data.

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	HDMI cable	1	1.8	Y	0	HDMI 2.0 (Brand: Amber, Model: HDMI-AA120), Provided by Lab
2.	USB cble	1	1.8	Y	0	--
3.	AC power cable	1	1.8	N	0	Provided by client
4.	Audio cable	1	1.2	N	0	--
5.	LAN cable	2	10	N	0	RJ45 Cat.5e Provided by Lab
6.	LAN cable	2	1	N	0	RJ45 Cat.5e Provided by Lab

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 input power ports

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 04, 2020	Dec. 03, 2021
RF signal cable Woken	5D-FB	Cable-cond1-01	Jan. 16, 2021	Jan. 15, 2022
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 25, 2021	Feb. 24, 2022
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 28, 2020	Aug. 27, 2021
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Note: 1. The test was performed in HwaYa Shielded Room 1 (Conduction 1).
2. The VCCI Site Registration No. is C-12040.

4.2 Radiated Emissions up to 1 GHz

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ (V)	ESR	101240	Oct. 30, 2020	Oct. 29, 2021
Test Receiver ROHDE & SCHWARZ (H)	ESR	101264	Apr. 09, 2021	Apr. 08, 2022
BILOG Antenna SCHWARZBECK (V)	VULB9168	9168-148	Nov. 05, 2020	Nov. 04, 2021
BILOG Antenna SCHWARZBECK (H)	VULB9168	9168-156	Nov. 05, 2020	Nov. 04, 2021
Preamplifier Sonoma (V)	310N	352924	Jun. 05, 2021	Jun. 04, 2022
Preamplifier Sonoma (H)	310N	352923	Jun. 05, 2021	Jun. 04, 2022
RF signal cable (with 5dB PAD) Times (V)	LMR-600 (18M) +LMR-400 (7M)	CABLE-CH1 (VER) -01	Sep. 04, 2020	Sep. 03, 2021
RF signal cable (with 5dB PAD) Times (H)	LMR-600 (11.8M) +LMR-400 (7M)	CABLE-CH1 (HOR) -01	Sep. 04, 2020	Sep. 03, 2021
Software BV ADT	BV ADT_Radiated_ V8.7.08	NA	NA	NA
Antenna Tower (V)	MFA-440	9707	NA	NA
Antenna Tower (H)	MFA-440	970705	NA	NA
Turn Table	DS430	50303	NA	NA
Controller (V)	MF7802	074	NA	NA
Controller (H)	MF7802	08093	NA	NA

Note: 1. The test was performed in HwaYa Chamber 1.
2. The VCCI Site Registration No. is R-11893.

4.3 Radiated Emissions above 1 GHz

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer Agilent	E4446A	MY51100039	Dec. 01, 2020	Nov. 30, 2021
PXA S Analyzer KEYSIGHT	N9030B	MY57141885	Jun. 07, 2021	Jun. 06, 2022
BILOG Antenna SCHWARZBECK	VULB9168	9168-149	Nov. 04, 2020	Nov. 03, 2021
RF signal cable (with 5dB PAD) Times	LMR-400 (18M)	CABLE-CH2-01	Mar. 22, 2021	Mar. 21, 2022
HORN Antenna (with 4dB PAD) SCHWARZBECK	BBHA 9120 D	9120D-405	Nov. 22, 2020	Nov. 21, 2021
Pre-Amplifier Agilent (Above 1GHz)	8449B	3008A01961	Sep. 04, 2020	Sep. 03, 2021
Software BV ADT	BV ADT_Radiated_ V8.7.08	NA	NA	NA
Antenna Tower BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Controller BV ADT	SC100	SC93021702	NA	NA
BandPass Filter (2.4G) MICRO-TRONICS	BRM17690-01	003	Sep. 04, 2020	Sep. 03, 2021
BandPass Filter (5G) MICRO-TRONICS	BRM50716-01	G011	Sep. 04, 2020	Sep. 03, 2021
RF Coaxial Cable EMCI	EMC102-KM-KM-1000	170819	Sep. 04, 2020	Sep. 03, 2021
RF Coaxial Cable Rosnol	K1K50-UP0279- K1K50-3000	181129-1	Sep. 04, 2020	Sep. 03, 2021
RF Coaxial Cable JUNFLON+EMC	JUNFLON+EMC104- SM-SM-6000	Cable-CH2- 02(MWX3221308 G003+130710)	Jan. 16, 2021	Jan. 15, 2022
Fix tool for Boresight antenna	BAF-01	2	NA	NA

Note: 1. The test was performed in HwaYa Chamber 2 (966 Chamber 1).
2. The VCCI Site Registration No. is G-10018.

5 Limits of Test Items

5.1 Conducted Emissions from Power Ports

Frequency (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.5 - 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.
2. The limit decreases linearly with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.2 Radiated Emissions up to 1 GHz

Radiated Emissions Limits at 10 meters (dBµV/m)				
Frequencies (MHz)	FCC Part 15B, Class A	FCC Part 15B, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	39	29.5	40	30
88-216	43.5	33.1		
216-230	46.4	35.6		
230-960			47	37
960-1000	49.5	43.5		

Radiated Emissions Limits at 3 meters (dBµV/m)				
Frequencies (MHz)	FCC Part 15B, Class A	FCC Part 15B, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	49.5	40	50.5	40.5
88-216	54	43.5		
216-230	56.9	46		
230-960			57.5	47.5
960-1000	60	54		

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

5.3 Radiated Emissions above 1 GHz

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	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.

6 Test Arrangements

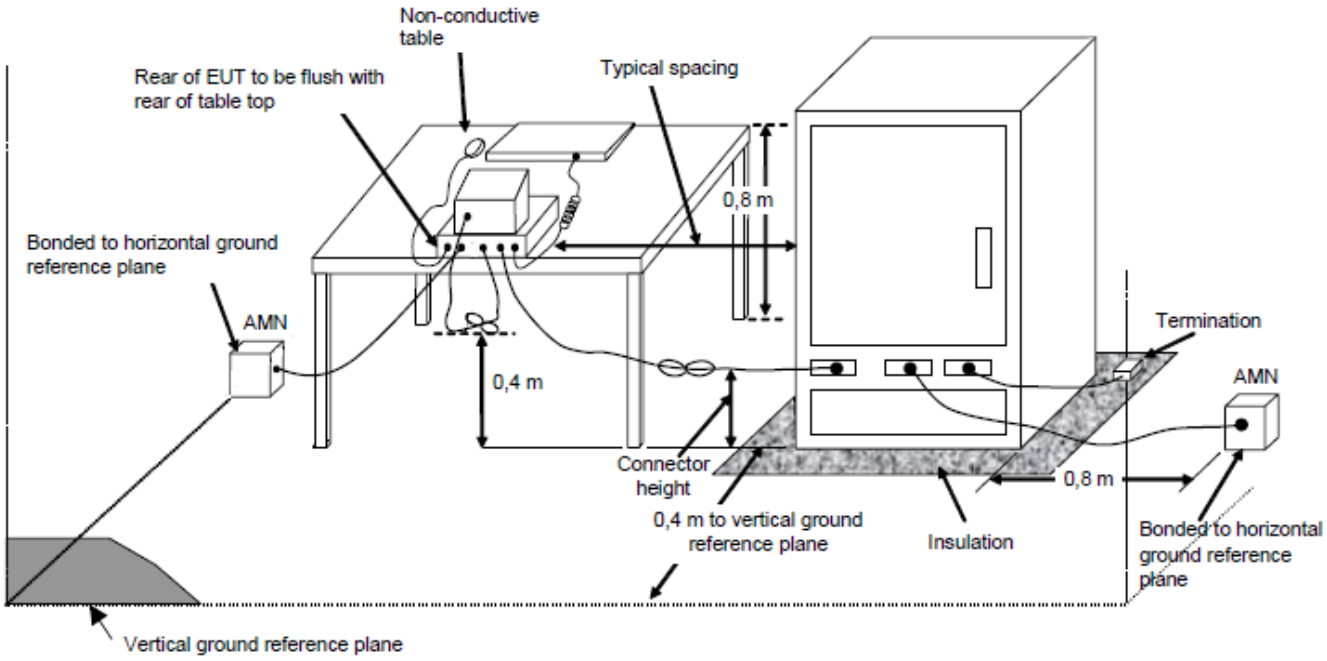
6.1 Conducted Emissions from Power Ports

a. For the table-top EUT is placed on a 0.8 meter to the top of rotating table; for the 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.

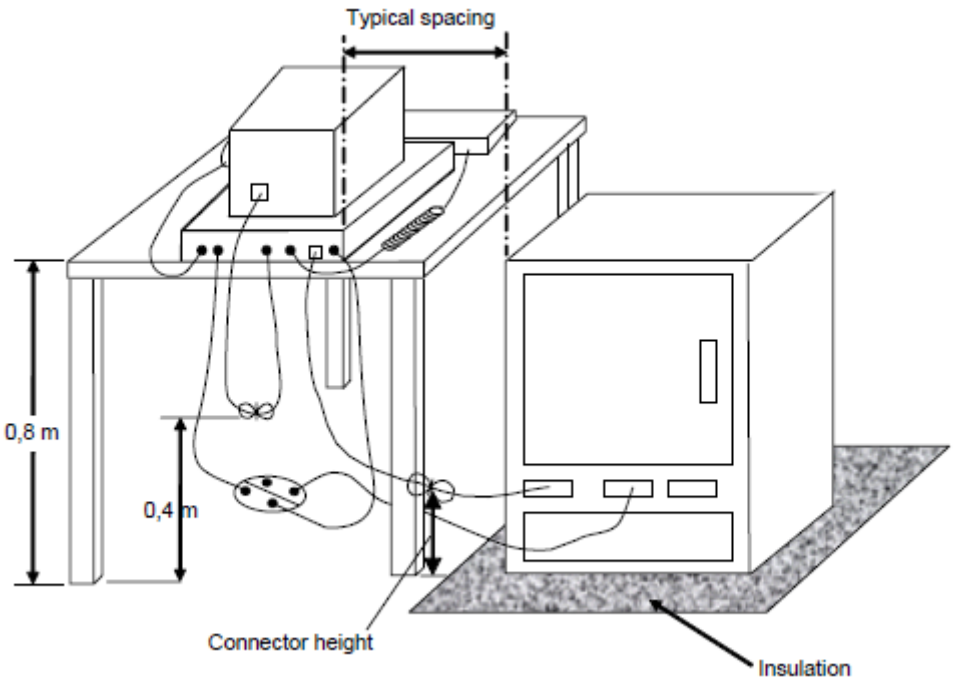


For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

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 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 10 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.

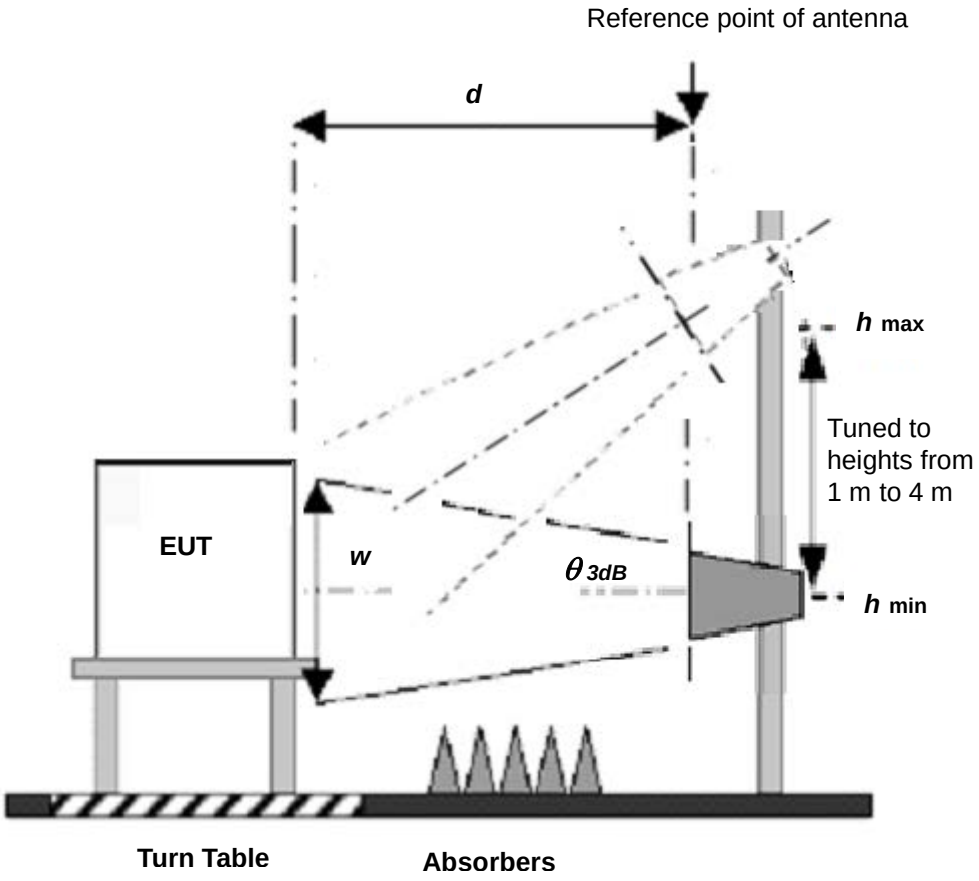


For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

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 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.

7 Test Results of Emission

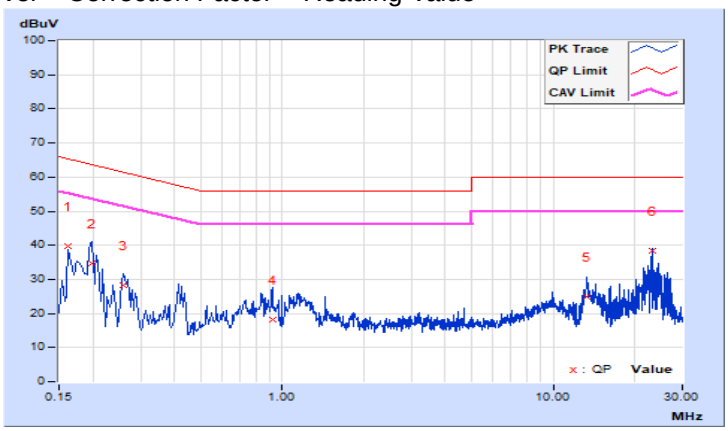
7.1 Conducted Emissions from input power ports

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	21℃, 62%RH
Tested by	Daniel Lin	Test Date	2021/7/1

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16200	9.71	30.00	17.07	39.71	26.78	65.36	55.36	-25.65	-28.58
2	0.19780	9.71	25.13	9.97	34.84	19.68	63.70	53.70	-28.86	-34.02
3	0.25800	9.72	18.70	4.61	28.42	14.33	61.50	51.50	-33.08	-37.17
4	0.91800	9.76	8.39	5.30	18.15	15.06	56.00	46.00	-37.85	-30.94
5	13.33400	9.84	15.12	5.70	24.96	15.54	60.00	50.00	-35.04	-34.46
6	23.13000	9.81	28.54	28.17	38.35	37.98	60.00	50.00	-21.65	-12.02

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

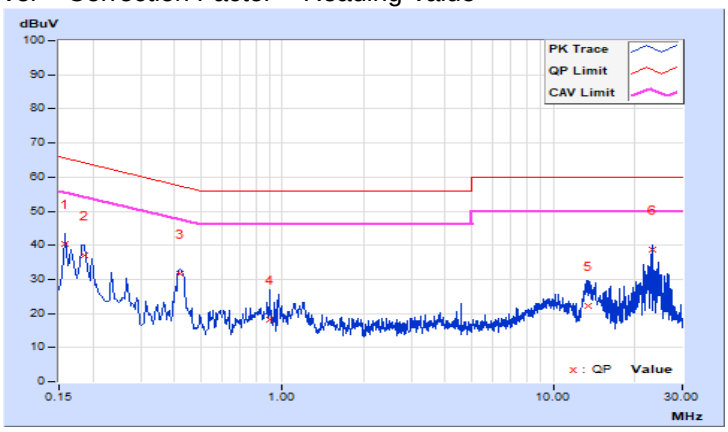


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	21℃, 62%RH
Tested by	Daniel Lin	Test Date	2021/7/1

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15800	9.77	30.75	16.05	40.52	25.82	65.57	55.57	-25.05	-29.75
2	0.18519	9.77	27.26	17.06	37.03	26.83	64.25	54.25	-27.22	-27.42
3	0.41799	9.79	21.83	14.93	31.62	24.72	57.49	47.49	-25.87	-22.77
4	0.89800	9.81	8.53	0.75	18.34	10.56	56.00	46.00	-37.66	-35.44
5	13.53000	9.94	12.30	5.49	22.24	15.43	60.00	50.00	-37.76	-34.57
6	**23.13000**	**9.99**	**28.62**	**28.29**	**38.61**	**38.28**	**60.00**	**50.00**	**-21.39**	**-11.72**

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



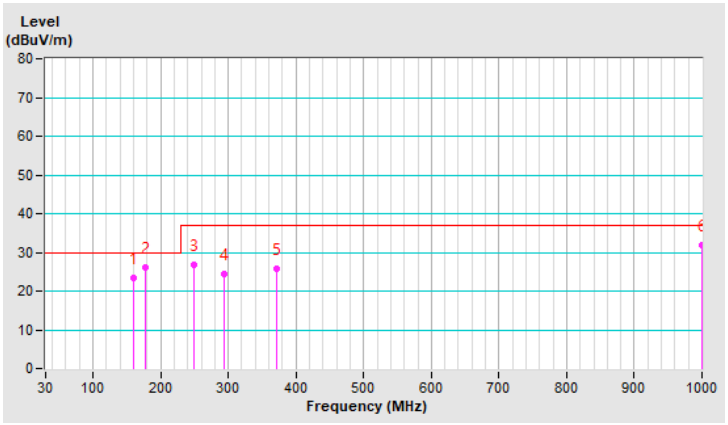
7.2 Radiated Emissions up to 1 GHz

Frequency Range	30MHz ~ 1GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz
Tested By	Slash Huang	Environmental Conditions	23℃, 68%RH
Test Date	2021/6/28		

Antenna Polarity & Test Distance : Horizontal at 10 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	159.60	23.44 QP	30.00	-6.56	4.00 H	183	36.51	-13.07
2	177.69	26.04 QP	30.00	-3.96	4.00 H	177	40.13	-14.09
3	250.01	26.88 QP	37.00	-10.12	3.00 H	72	41.23	-14.35
4	293.56	24.56 QP	37.00	-12.44	3.00 H	17	37.05	-12.49
5	371.21	25.74 QP	37.00	-11.26	2.50 H	241	36.31	-10.57
6	1000.00	31.81 QP	37.00	-5.19	3.00 H	100	29.70	2.11

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. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

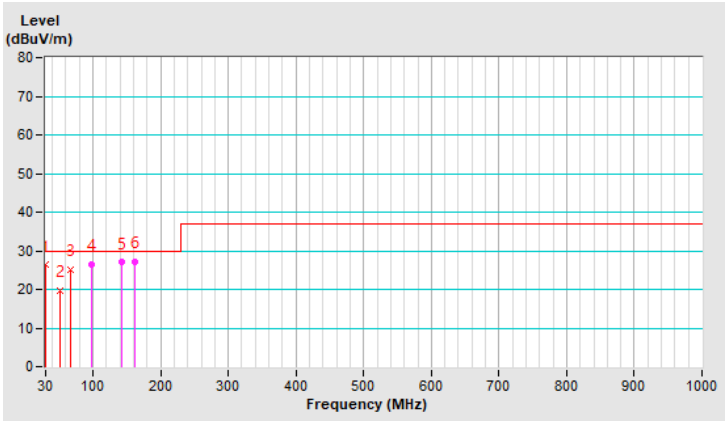


Frequency Range	30MHz ~ 1GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz
Tested By	Slash Huang	Environmental Conditions	23℃, 68%RH
Test Date	2021/6/28		

Antenna Polarity & Test Distance : Vertical at 10 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	30.62	26.35 QP	30.00	-3.65	1.50 V	342	41.64	-15.29
2	50.42	19.82 QP	30.00	-10.18	3.50 V	260	33.41	-13.59
3	66.26	25.03 QP	30.00	-4.97	3.00 V	192	39.76	-14.73
4	98.44	26.48 QP	30.00	-3.52	1.00 V	158	44.76	-18.28
5	143.30	27.03 QP	30.00	-2.97	1.00 V	130	40.40	-13.37
6	**162.51**	**27.17 QP**	**30.00**	**-2.83**	**2.00 V**	**98**	**40.44**	**-13.27**

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. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value



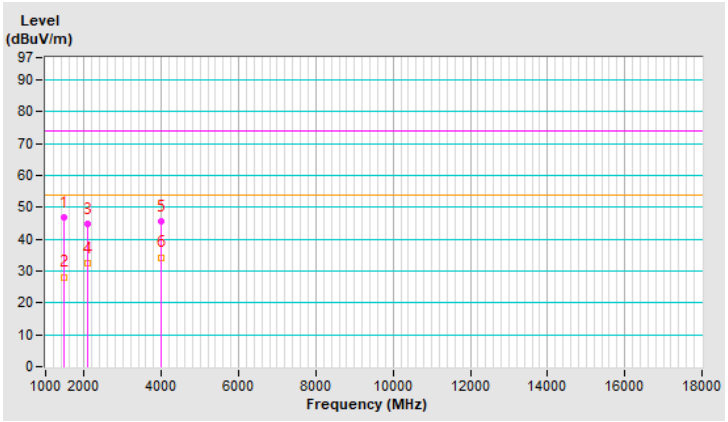
7.3 Radiated Emissions above 1 GHz

Frequency Range	1GHz ~ 10GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1MHz
Tested By	Rolan Zheng	Environmental Conditions	26℃, 62%RH
Test Date	2021/7/3		

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	1465.90	46.77 PK	74.00	-27.23	1.23 H	197	48.76	-1.99
2	1465.90	28.11 AV	54.00	-25.89	1.23 H	197	30.10	-1.99
3	2080.23	44.77 PK	74.00	-29.23	1.00 H	205	44.33	0.44
4	2080.23	32.51 AV	54.00	-21.49	1.00 H	205	32.07	0.44
5	3985.50	45.54 PK	74.00	-28.46	1.36 H	332	41.20	4.34
6	3985.50	34.29 AV	54.00	-19.71	1.36 H	332	29.95	4.34

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. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

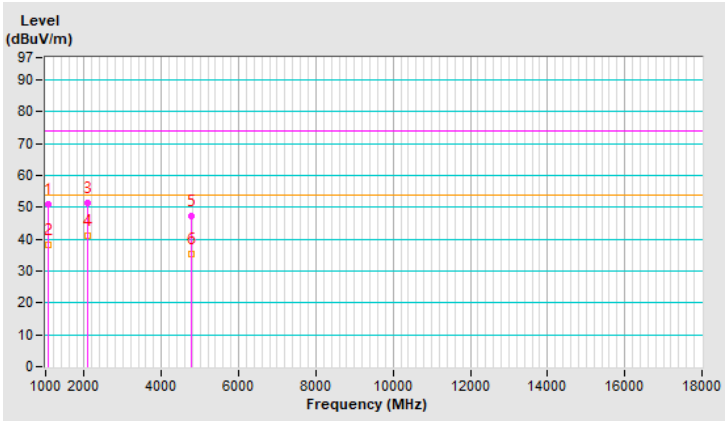


Frequency Range	1GHz ~ 10GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1MHz
Tested By	Rolan Zheng	Environmental Conditions	26℃, 62%RH
Test Date	2021/7/3		

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	1057.04	50.92 PK	74.00	-23.08	1.00 V	247	54.89	-3.97
2	1057.04	38.13 AV	54.00	-15.87	1.00 V	247	42.10	-3.97
3	2079.23	51.50 PK	74.00	-22.50	1.23 V	342	51.07	0.43
4	**2079.23**	**41.22 AV**	**54.00**	**-12.78**	**1.23 V**	**342**	**40.79**	**0.43**
5	4763.79	47.16 PK	74.00	-26.84	1.28 V	144	40.58	6.58
6	4763.79	35.22 AV	54.00	-18.78	1.28 V	144	28.64	6.58

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. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

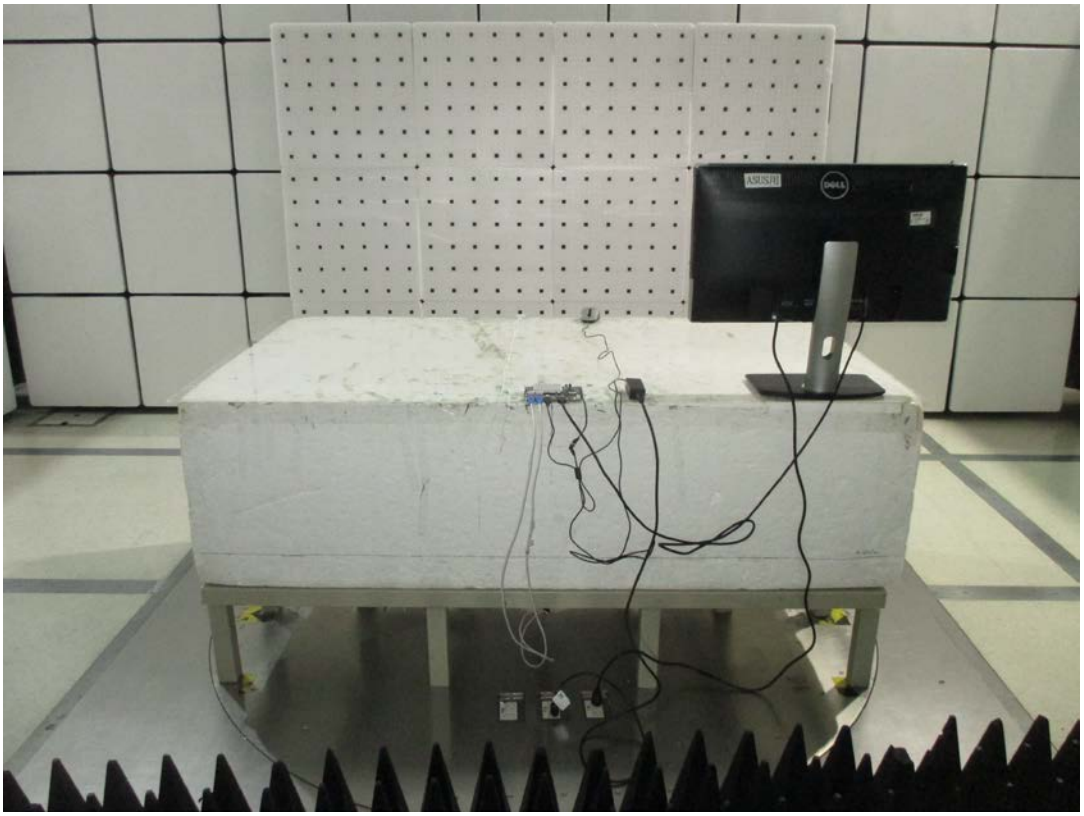


8 Pictures of Test Arrangements

8.1 Conducted Emissions from input power ports

8.2 Radiated Emissions up to 1 GHz

8.3 Radiated Emissions above 1 GHz



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 accredited and approved according to ISO/IEC 17025.

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

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