

# TEST REPORT

## CERTIFICATE OF CONFORMITY

**Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)**

**Report No.:** RFCCOG-WTW-P22060455C R1

**FCC ID:** 2AH7L-UPSA

**Product:** EcoStruxure™ Panel Server Advanced, EcoStruxure™ Panel Server Universal  
 (Refer to item 3.1 for more details)

**Brand:** Schneider Electric

**Model No.:** PAS800, PAS800L, PAS800P (Refer to item 3.1 for more details)

**Series Model:** PAS600L-V2, PAS600-V2, PAS600P-V2, PAS800L-V2, PAS800P-V2, PAS800-V2  
 (Refer to item 3.1 for the more details)

**Received Date:** 2024/8/12

**Test Date:** 2024/9/4

**Issued Date:** 2025/8/5

**Applicant:** Schneider Electric Industries SAS

**Address:** Electropole Site - 38EQ1, 31 rue Pierre Mendes France, Eybens - 38050 Grenoble  
 cedex 9

**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. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

**FCC Registration /** 281270 / TW0032

**Designation Number:**

**Approved by:** Jeremy Lin, **Date:** 2025/8/5  
 Jeremy Lin / Project Engineer

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Prepared by : Vera Huang / Specialist

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## Release Control Record

Issue No.	Description	Date Issued
RFCCOG-WTW-P22060455C	Original Release	2024/12/18
RFCCOG-WTW-P22060455C R1	Revised description from supplementary report to C2PC report.	2025/8/5

## 1 Certificate

**Product:** EcoStruxure™ Panel Server Advanced, EcoStruxure™ Panel Server Universal  
(Refer to item 3.1 for more details)

**Brand:** Schneider Electric

**Test Model:** PAS800, PAS800L, PAS800P (Refer to item 3.1 for more details)

**Series Model:** PAS600L-V2, PAS600-V2, PAS600P-V2, PAS800L-V2, PAS800P-V2, PAS800-V2  
(Refer to item 3.1 for the more details)

**Sample Status:** Engineering sample

**Applicant:** Schneider Electric Industries SAS

**Test Date:** 2024/9/4

**Standard:** 47 CFR FCC Part 15, Subpart C (Section 15.247)

**Measurement**

**procedure:** ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

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 RF characteristics under the conditions specified in this report.

## 2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
Standard / Clause	Test Item	Result	Remark
15.247(b)	RF Output Power	N/A	Refer to Note
15.247(e)	Power Spectral Density	N/A	Refer to Note
15.247(a)(2)	6 dB Bandwidth	N/A	Refer to Note
15.247(d)	Conducted Out of Band Emissions	N/A	Refer to Note
15.207	AC Power Conducted Emissions	N/A	Refer to Note
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -3.6 dB at 39.70 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	N/A	Refer to Note
15.203	Antenna Requirement	Pass	Internal Antenna: No antenna connector is used. External Antenna: Antenna connector is RP-SMA not a standard connector.

Note:

- Only Unwanted Emissions below 1 GHz test were verified and recorded in this report. Other testing data please refer to report no.: RFCCOG-WTW-P22060455A.
- 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) ( $\pm$ )
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 dB

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.

### 3 General Information

#### 3.1 General Description

Product	EcoStruxure™ Panel Server Advanced, EcoStruxure™ Panel Server Universal
Brand	Schneider Electric
Test Model	PAS800, PAS800L, PAS800P
Series Model	PAS600L-V2, PAS600-V2, PAS600P-V2, PAS800L-V2, PAS800P-V2, PAS800-V2
Model Difference	Refer to note
Status of EUT	Engineering sample
Power Supply rating	PAS800: 110 to 277Vac/dc +/-10%, 50-60Hz( +/-5Hz) < 3.5W/12VA , -25°C to 70°C PAS800L: 24Vdc +/-10% , 145 mA , < 3.5W, -25°C to 70°C PAS800P: POE(PD) - Class 0, 37Vdc to 57Vdc, < 3.5 W, 48Vdc (Typical), 72 mA, -25°C to 70°C
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b:11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 150Mbps
Operating Frequency	2412 ~ 2462MHz
Number of Channel	Client mode: 802.11b, 802.11g, 802.11n (HT20): 11 802.11n (HT40): 7 AP mode: 802.11n (HT20): 11

Note:

1. This report is issued as a C2PC report of BV CPS report no.: RFCCOG-WTW-P22060455A (C1PC). The difference compared to the original report is adding 2.4GHz Access Point Mode through F/W update, which supports channel 1 to 11 on 802.11n (HT20) mode only. However, RF power configuration: Internal Antenna-Reduced power with BV CPS report no.: RFCCOG-WTW-P22060455A, External Antenna-Higher power with BV CPS report no.: RFBHQ-WTW-P21080521 for both Client and AP modes. Therefore, only unwanted emissions below 1 GHz was verified and recorded in this report. The others testing data refer to original test report.
2. Based on engineering judgment of the device design, all test data were copied from the test report (BV CPS Report No.: RFCCOG-WTW-P22060455B R1). All data were verified to meet the requirements.
3. All models are listed as below.

Brand	Product	Model	Difference
Schneider Electric	EcoStruxure™ Panel Server Advanced	PAS800	All three models are similar in construction and functioning except the mode of powering.
		PAS800L	PAS800: powered by 110V-277Vac/dc
		PAS800P	PAS800L: powered by 24Vdc source
		PAS800-V2	PAS800P: Powered Over Ethernet.
		PAS800L-V2	PAS600-V2 = PAS800 with memory increased and FW feature Data Gateway.
		PAS800P-V2	PAS600P-V2 = PAS800P with memory increased and FW feature Data Gateway.
	EcoStruxure™ Panel Server Universal	PAS600-V2	PAS600L-V2 = PAS800L with memory increased and FW feature Data Gateway.
		PAS600P-V2	PAS800-V2= PAS800 with memory increase
		PAS800L-V2	PAS800L-V2 = PAS800L with memory increase
		PAS800P-V2	PAS800P-V2 = PAS800P with memory increase

4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

### 3.2 Antenna Description of EUT

1. The antenna information is listed as below.

<Internal Antenna>

No.	Antenna Type	Brand	Model	Connector	Gain(dBi)		Remark
					2.4G	5G	
1	PCB	Schneider Electric	U31_1	NA	0.80	0.75	WLAN, BT LE
2	PCB	Schneider Electric	U7_1	NA	2.31	-	Zigbee (long cable)
3	PCB	Schneider Electric	U8_1	NA	0.91	-	Zigbee (short cable)

<External Antenna>

No.	Antenna Type	Brand	Model	Connector	Gain(dBi)			Remark
					2.4G	5G B1	5G B4	
1	Dipole	Schneider Electric	PASA-ANT1	RP-SMA	2.54	3.24	3.88	WLAN, BT LE, Zigbee

\* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT provide 1 completed transmitter and 1 receiver.

2.4 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11b	1TX	1RX
802.11g	1TX	1RX
802.11n (HT20)	1TX	1RX
802.11n (HT40)	1TX	1RX

### 3.3 Channel List

Client mode:

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

Channel	Frequency	Channel	Frequency
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

7 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		

AP mode:

11 channels are provided for 802.11n (HT20):

Channel	Frequency	Channel	Frequency
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

### 3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	Worst Condition: X-axis

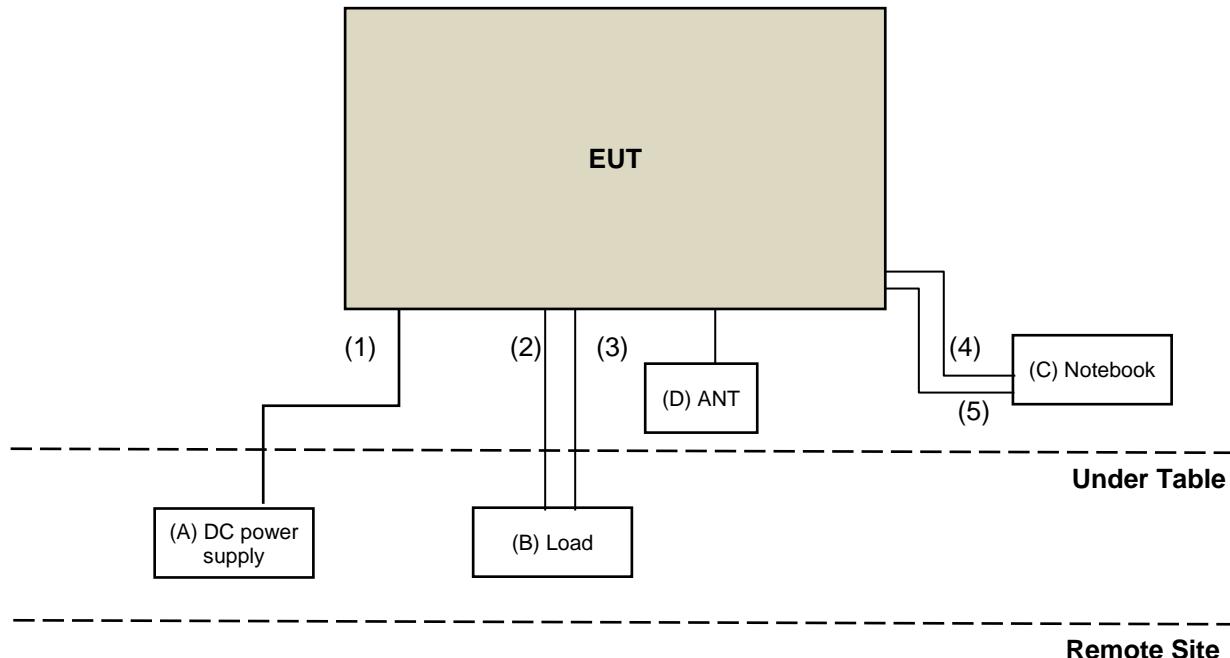
Following channel(s) was (were) selected for the final test as listed below:

Test Item	EUT Configure Mode	Mode	Tested Channel	Modulation	Data Rate Parameter
Unwanted Emissions below 1 GHz	A	802.11n (HT20)	11	BPSK	MCS0
	B	802.11n (HT20)	11	BPSK	MCS0
EUT Configure Mode:	A	EUT (PAS800) + External antenna 1			
	B	EUT (PAS800) + Internal antenna 1			

### 3.5 Test Program Used and Operation Descriptions

Controlling software RTTT Version 2.0.0.55 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

### 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	DC power supply	Keysight	U8002A	MY56330015	N/A	Provided by Lab
B	Load	N/A	N/A	N/A	N/A	Provided by Lab
C	Notebook	Lenovo	L440	R9-0GFJKK	N/A	Provided by Lab
D	ANT	Schneider Electric	PASA-ANT1	N/A	N/A	Accessory of the EUT

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	3	N/A	N/A	Supplied by applicant
2	RJ-45 Cable	1	1.5	N/A	N/A	Provided by Lab
3	RJ-45 Cable	1	1.5	N/A	N/A	Provided by Lab
4	Console Cable	1	1	N/A	N/A	Provided by Lab (for RF Setup)
5	Console Cable	1	1.5	N/A	N/A	Supplied by applicant (for RF Setup)

## 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 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1213	2023/10/13	2024/10/12
EMI Test Receiver R&S	ESR3	102782	2023/12/7	2024/12/6
Loop Antenna Electro-Metrics	EM-6879	269	2023/9/23	2024/9/22
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
MXA Signal Analyzer Keysight	N9020B	MY60110513	2023/12/22	2024/12/21
Preamplifier EMCI	EMC330N	980782	2024/1/15	2025/1/14
	EMC001340	980201	2023/9/27	2024/9/26
RF Coaxial Cable EMCI	EMCCFD400-NM-NM- 500	201233	2024/1/15	2025/1/14
	EMCCFD400-NM-NM- 3000	201235	2024/1/15	2025/1/14
	EMCCFD400-NM-NM- 9000	201236(with PAD)	2024/1/15	2025/1/14
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2024/9/4

## 5 Limits of Test Items

### 5.1 Unwanted Emissions below 1 GHz

Radiated emissions up to 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

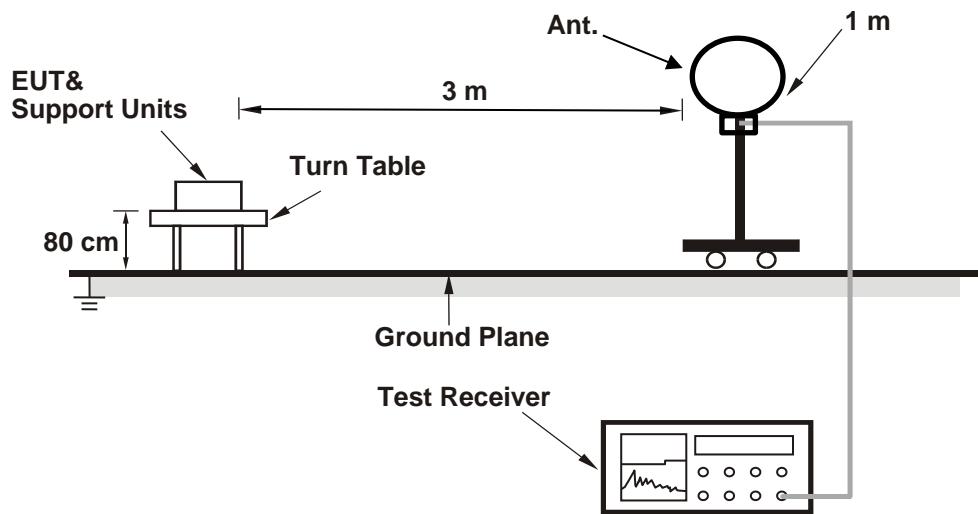
1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB<sub>u</sub>V/m) = 20 log Emission level (uV/m).

## 6 Test Arrangements

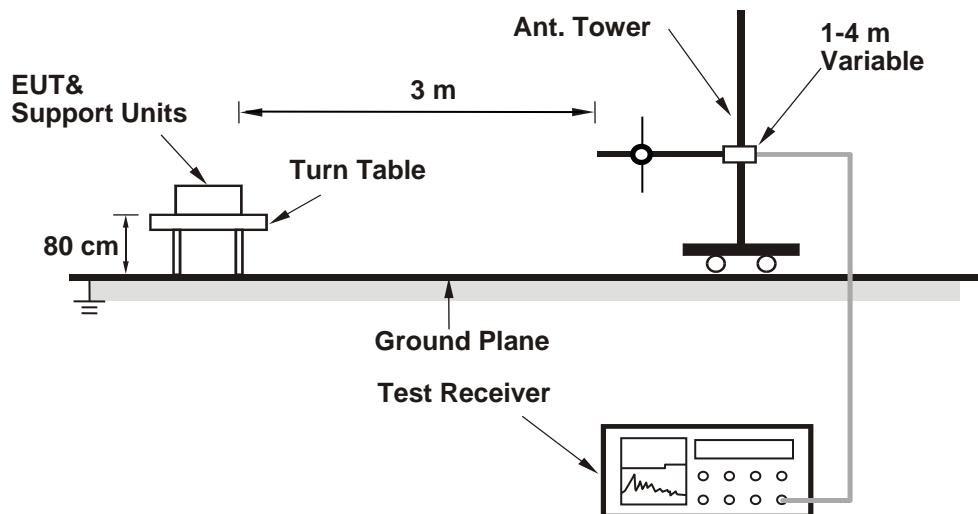
### 6.1 Unwanted Emissions below 1 GHz

#### 6.1.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

## 6.1.2 Test Procedure

### For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. 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. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case 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, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

### For Radiated emission above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. 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.
- 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 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

## 7 Test Results of Test Item

### 7.1 Unwanted Emissions below 1 GHz

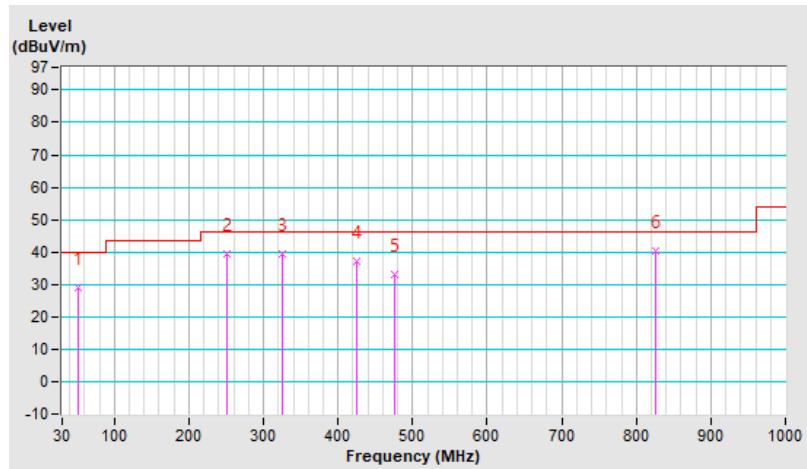
#### Mode A

RF Mode	802.11n (HT20)	Channel	CH 11 : 2462 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 65 % RH
Tested By	Edison Lee		

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	51.34	29.0 QP	40.0	-11.0	1.50 H	86	42.1	-13.1
2	250.19	39.5 QP	46.0	-6.5	1.00 H	245	53.7	-14.2
3	324.88	39.6 QP	46.0	-6.4	2.00 H	252	51.3	-11.7
4	424.79	37.0 QP	46.0	-9.0	1.50 H	309	46.3	-9.3
5	475.23	33.0 QP	46.0	-13.0	1.00 H	320	40.9	-7.9
6	825.40	40.4 QP	46.0	-5.6	1.00 H	340	42.5	-2.1

#### 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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



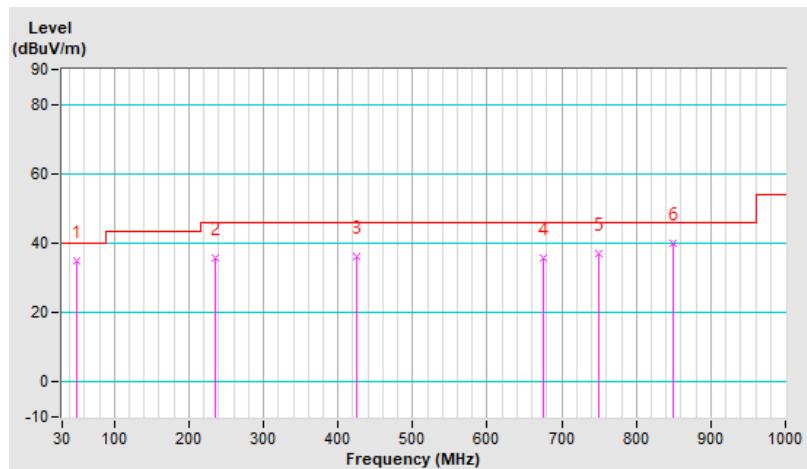
RF Mode	802.11n (HT20)	Channel	CH 11 : 2462 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 65 % RH
Tested By	Edison Lee		

## Antenna Polarity &amp; 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	50.37	34.9 QP	40.0	-5.1	1.00 V	318	48.0	-13.1
2	235.64	35.8 QP	46.0	-10.2	1.50 V	69	50.5	-14.7
3	424.79	36.1 QP	46.0	-9.9	1.00 V	149	45.4	-9.3
4	675.05	35.7 QP	46.0	-10.3	1.00 V	133	40.1	-4.4
5	749.74	36.9 QP	46.0	-9.1	2.00 V	130	39.8	-2.9
6	849.65	40.0 QP	46.0	-6.0	1.00 V	202	41.9	-1.9

## 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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



**Mode B**

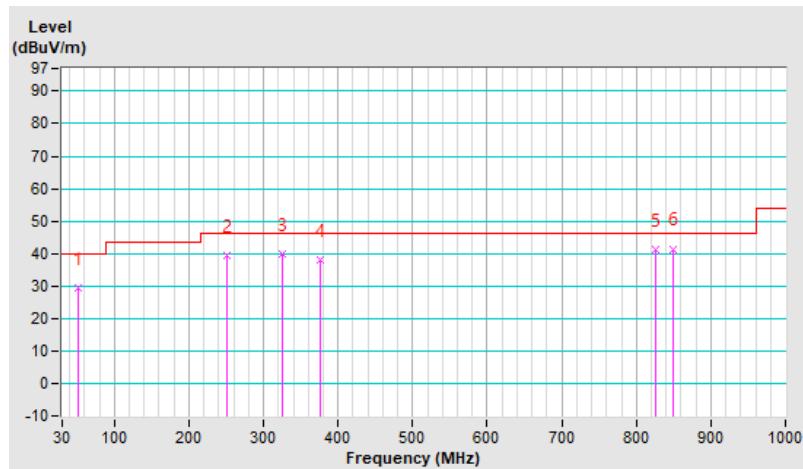
RF Mode	802.11n (HT20)	Channel	CH 11 : 2462 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 65 % RH
Tested By	Edison Lee		

Antenna Polarity &amp; 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	51.34	29.3 QP	40.0	-10.7	2.00 H	91	42.4	-13.1
2	250.19	39.5 QP	46.0	-6.5	1.00 H	244	53.7	-14.2
3	324.88	39.7 QP	46.0	-6.3	1.00 H	256	51.4	-11.7
4	375.32	38.2 QP	46.0	-7.8	1.00 H	290	48.7	-10.5
5	825.40	41.3 QP	46.0	-4.7	1.50 H	330	43.4	-2.1
6	849.65	41.5 QP	46.0	-4.5	1.00 H	326	43.4	-1.9

## 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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

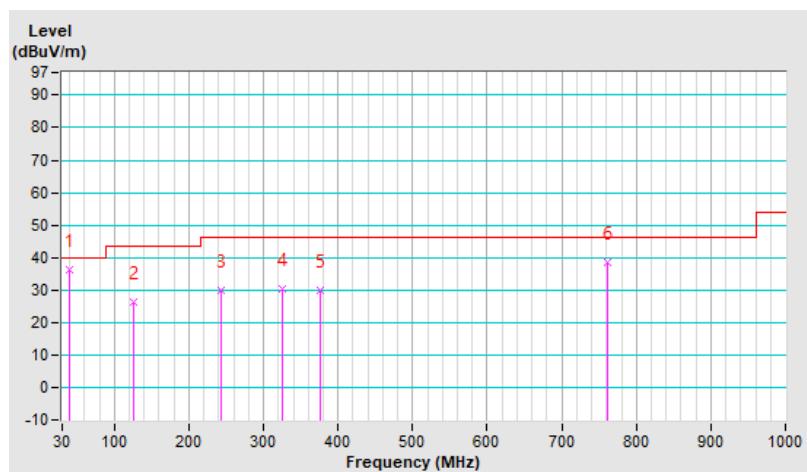


RF Mode	802.11n (HT20)	Channel	CH 11 : 2462 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	24 °C, 65 % RH
Tested By	Edison Lee		

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	39.70	36.4 QP	40.0	-3.6	1.00 V	237	50.1	-13.7
2	125.06	26.3 QP	43.5	-17.2	1.00 V	100	41.2	-14.9
3	243.40	29.7 QP	46.0	-16.3	1.00 V	38	44.0	-14.3
4	324.88	30.3 QP	46.0	-15.7	1.00 V	201	42.0	-11.7
5	375.32	29.8 QP	46.0	-16.2	1.00 V	128	40.3	-10.5
6	762.35	38.7 QP	46.0	-7.3	1.00 V	283	41.3	-2.6

**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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



## 8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

## 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.

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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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