

FCC Test Report

(Co-Located)

Report No.: RFBEIH-WTW-P23060517-4

FCC ID: 2BBDG-CHPU-NS-A01

Model No.: CHPU-NS-A01

Received Date: 2023/6/20

Test Date: 2023/7/3 ~ 2023/7/22

Issued Date: 2023/8/11

Applicant: SNTNL LLC

Address: 1 American Road, Detroit, Michigan, United States 48126

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: 198487 / TW2021





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Release Control Record

Issue No.	Description	Date Issued
RFBEIH-WTW-P23060517-4	Original release	2023/8/11



1 Certificate of Conformity

Product Name: Canopy Hub

Brand Name: CANOPY

Model No.: CHPU-NS-A01

Sample Status: Engineering sample

Applicant: SNTNL LLC

Test Date: 2023/7/3 ~ 2023/7/22

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

47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement ANSI C63.10-2013

procedure: KDB 789033 D02 General UNII Test Procedure New Rules v02r01

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.

Prepared by: Third Mang, Date: 2023/8/11

Annie Chang / Senior Specialist

Approved by : , Date: 2023/8/11

Jeremy Lin / Project Engineer



2 Summary of Test Results

Applied Standard	47 CFR FCC Part 15, Subpart C (Section 15.247) 47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item Result Remarks			
15.205 / 15.209 / 15.247(d) 15.407(b)(9)	Radiated Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -1.2dB at 2390.00MHz.	

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) (±)
awantad Emissiona halaw 4 CH-	9 kHz ~ 30 MHz	2.38 dB
Unwanted Emissions below 1 GHz	30 MHz ~ 1 GHz	5.7 dB
	1 GHz ~ 6 GHz	4.83 dB
Unwanted Emissions above 1 GHz	6 GHz ~ 18 GHz	5.37 dB
	18 GHz ~ 40 GHz	5.24 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 General Description of EUT

Product	Canopy Hub			
Brand	CANOPY			
Test Model	CHPU-NS-A01			
Status of EUT	Engineering sample			
Power Supply Rating	12.8Vdc from internal battery or 12-24Vdc from Car battery			
	2.4GHz	CCK, DQPSK, DBPSK for DSSS		
Madulation Type		64QAM, 16QAM, QPSK, BPSK for OFDM		
Modulation Type	5GHz	64QAM, 16QAM, QPSK, BPSK for OFDM		
	BT LE	GFSK		
	2.4GHz	DSSS, OFDM		
Modulation Technology	5GHz	OFDM		
	BT LE	DTS		
	2.4GHz	Up to 72.2 Mbps		
Transfer Rate	5GHz	Up to 72.2 Mbps		
	BT LE	125k, 500k, 1M, 2M		
	2.4GHz	2.412 GHz ~ 2.462 GHz		
	5GHz	5.18 GHz ~ 5.24 GHz, 5.745 GHz ~ 5.825 GHz		
	BT LE	2.402 GHz ~ 2.48 GHz		
On a ratio a Francisco	WCDMA Band 2	1852.4-1907.6 MHz		
Operating Frequency	WCDMA Band 4	1712.4-1752.6 MHz		
	LTE Band 2	1850.7-1909.3 MHz		
	LTE Band 4	1710.7-1754.3 MHz		
	LTE Band 12	699.7-715.3 MHz		
	2.4GHz	802.11b, 802.11g, 802.11n (HT20): 11		
Number of Channel	5GHz	802.11a, 802.11n (HT20): 9		
	BT LE	40		
	2.4GHz	382.825 mW (25.83 dBm)		
Output Power	5GHz	5.18 GHz ~ 5.24 GHz : 107.647 mW (20.32 dBm) 5.745 GHz ~ 5.825 GHz : 145.211 mW (21.62 dBm)		
	BT LE	4.909 mW (6.91 dBm)		
	LTE Band 12	235.505 mW (23.72 dBm)		

Note:

1. There are Bluetooth, WLAN (2.4 GHz & 5 GHz) and WWAN technologies used for the EUT.

2. Simultaneously transmission condition.

Condition	Technology			
1	WLAN (5 GHz) Bluetooth			
2	WLAN (2.4 GHz) Bluetooth			
3 WWAN (LTE Band 12) Bluetooth				
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.				

3. 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.

Function	Gain (dBi)	Antenna Type	Connector Type
WLAN 2.4G	3.51	PIFA	ipex
WLAN 5G	4.09	PIFA	ipex
BT LE	3.1	Dipole	ipex
WCDMA Band 2 / LTE Band 2	2.41	PIFA	ipex
WCDMA Band 4 / LTE Band 4	2.23	PIFA	ipex
LTE Band 12	1.32	PIFA	ipex

^{*}Detail antenna specification please refer to antenna datasheet and/or antenna measurement report

2. The EUT incorporates a SISO function:

	The Let incorporated a Gree tandion.				
	2.4GHz Band				
Modulation Mode	Modulation Mode TX & RX Configuration				
802.11b	1TX	1RX			
802.11g	802.11g 1TX 1RX				
802.11n (HT20)	1TX	1RX			
	5GHz Band				
Modulation Mode	Modulation Mode TX & RX Configuration				
802.11a	1TX 1RX				
802.11n (HT20)	1TX	1RX			



3.3 Description of Test Modes

3.3.1 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	EUT can transmit Simultaneously in the following conditions: WLAN (5 GHz) + Bluetooth / WLAN (2.4 GHz) + Bluetooth / WWAN (LTE Band 12) + Bluetooth. Pre-scan in these conditions and find the worst case as a representative test condition.
	Simultaneously transmission Worst Condition: WLAN (2.4 GHz) + Bluetooth for Unwanted Emission above 1GHz and Unwanted Emission below 1GHz.

EUT Configure	Applicable To		Description	
Mode	RE≥1G	RE<1G	Description	
-	√ √		WLAN (2.4 GHz) + Bluetooth	

Where

RE≥1G: Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz

Radiated Emission Test (Above 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

Mode	Freq. Range (MHz)	Available Channel	Tested Channel	Modulation Technology
802.11g + BT LE (2M)	2412 ~ 2462	1 to 11	6 . 0	BPSK
	2402 ~ 2480	0 to 39	6 + 0	GFSK

Radiated Emission Test (Below 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

Mode	Freq. Range (MHz)	Available Channel	Tested Channel	Modulation Technology
802.11g + BT LE (2M)	2412 ~ 2462	1 to 11	6 . 0	BPSK
	2402 ~ 2480	0 to 39	6+0	GFSK

Test Condition:

Applicable To Environmental Conditions RE>1G 18.1deg. C, 65.2%RH		Input Power	Tested By	
		12Vdc	Jed Wu	
RE<1G	5		Jed Wu	

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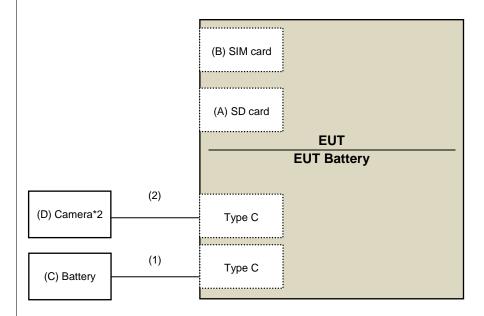
3.4 Description of Support Units

The ET 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.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
Α	SD card	SanDisk	256G	N/A	N/A	Provided by Lab
В	SIM card	N/A	N/A	N/A	N/A	Provided by Lab
С	Battery	GS	GG20LH2	N/A	N/A	Provided by Lab
D	Camera*2	CANOPY	CSSU-TS-A01	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)		Remarks
1	Battery DC cable	1	3	Υ	0	Supplied by applicant
2	2 Type C cable		2.9	N	0	Supplied by applicant

3.4.1 Configuration of System under Test





3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test Standard:

FCC Part 15, Subpart C (15.247) FCC Part 15, Subpart E (15.407) ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 789033 D02 General UNII Test Procedure New Rules v02r01 KDB 558074 D01 15.247 Meas Guidance v05r02

All test items have been performed as a reference to the above KDB test guidance.

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4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

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 $(dBuV/m) = 20 \log Emission level (uV/m)$.



Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Notes:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. For frequencies above 1000 MHz, 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 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To	Limit		
789033 D02 General UNII Test Procedure New	Field Strength at 3 m		
Rules v02r01	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)	

For transmitters operating in the 5.15-5.25 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m		
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)		

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m		
15.407(b)(4)(i)	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2 (dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8 (dBμV/m) *3 PK: 122.2 (dBμV/m) *4		

^{*1} beyond 75 MHz or more above of the band edge.

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$
 µV/m, where P is the eirp (Watts).

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.



4.1.2 Test Instruments

Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Loop Antenna EMCI	LPA600	270	2021/9/2	2023/9/1
Bi_Log Antenna Schwarzbeck	VULB 9168	137	2022/10/21	2023/10/20
Coupling / Decoupling Network	CDNE-M2	00097	2023/5/25	2024/5/24
Schwarzbeck	CDNE-M3	00091	2023/5/25	2024/5/24
MXE EMI Receiver	NOODOA	MY51210129	2023/3/24	2024/3/23
Agilent	N9038A	MY51210137	2023/6/5	2024/6/4
Preamplifier EMCI	EMC001340	980269	2023/6/27	2024/6/26
Preamplifier HP	8447D	2432A03504	2023/2/16	2024/2/15
RF Coaxial Cable Pacific	8D-FB	Cable-CH6-02	2023/6/27	2024/6/26
Signal Analyzer R&S	FSV40	101544	2023/5/9	2024/5/8
Software	Radiated_V7.7.1.1.1	N/A	N/A	N/A
BVADT	Radiated_V8.7.08	N/A	N/A	N/A
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

- 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA
- 2. The test was performed in Linkou 966 Chamber 6 (CH 6).
- 3. Tested Date: 2023/7/3



Unwanted Emissions above 1 GHz

Unwanted Emissions above 1 G	01 12			
Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Band Pass Filter Micro-Tronics	BRM17690	005	2023/5/25	2024/5/24
Boresight antenna tower fixture BV	BAF-02	6	N/A	N/A
High Pass Filter Wainwright	WHK 3.1/18G-10SS	SN 8	2023/5/25	2024/5/24
Horn Antenna EMCO	3115	00028257	2022/11/13	2023/11/12
Horn Antenna ETS-Lindgren	3117-PA	00215857	2022/11/13	2023/11/12
Horn Antenna Schwarzbeck	BBHA 9170	212	2022/10/20	2023/10/19
MXE EMI Receiver	NOOOOA	MY51210129	2023/3/24	2024/3/23
Agilent	N9038A	MY51210137	2023/6/5	2024/6/4
Notch Filter Micro-Tronics	BRC50703-01	010	2023/5/25	2024/5/24
Daniel III	EMC0126545	980076	2023/2/16	2024/2/15
Preamplifier EMCI	EMO40404ED	980175	2022/9/3	2023/9/2
EIVICI	EMC184045B	980235	2023/2/16	2024/2/15
Preamplifier HP	8449B	3008A01201	2023/2/16	2024/2/15
RF Coaxial Cable EM	EM102-KMKM-3.5+1M	EM102-KMKM-3.5+1M-01	2023/7/6	2024/7/5
RF Coaxial Cable	EMO404	190801	2023/7/6	2024/7/5
EMCI	EMC104	190804	2023/7/6	2024/7/5
RF Coaxial Cable HUBER+SUHNER	SF-104	Cable-CH6-01	2023/7/6	2024/7/5
Signal Analyzer	50)/40	101042	2022/9/5	2023/9/4
R&S	FSV40	101544	2023/5/9	2024/5/8
Software	Radiated_V7.7.1.1.1	N/A	N/A	N/A
BVADT	Radiated_V8.7.08	N/A	N/A	N/A
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

- 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA
- 2. The test was performed in Linkou 966 Chamber 6 (CH 6).
- 3. Tested Date: 2023/7/22



4.1.3 Test Procedure

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter 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. 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

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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.
- f. 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. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

No deviation.

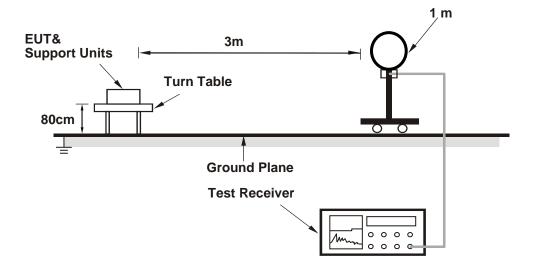
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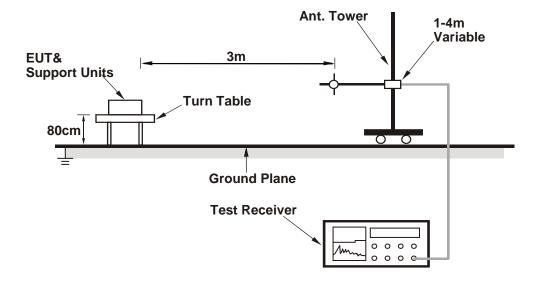


4.1.5 Test Setup

For Radiated emission below 30MHz

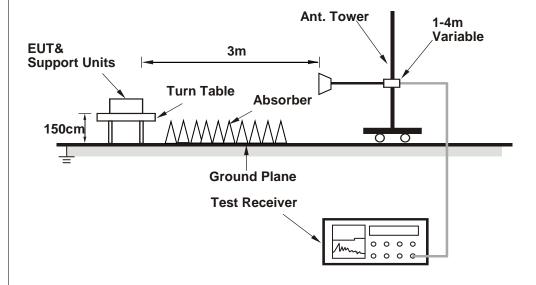


For Radiated emission 30MHz to 1GHz





For Radiated emission above 1GHz



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

4.1.6 EUT Operating Condition

Controlling software (teraterm v4.80) has been activated to set the EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

Above 1GHz data:

802.11g: CH 6 + BT LE (2M): CH 0

RF Mode 802.11g +	BT LE (2M) Cha	annol	CH 6: 2437 MHz + CH 0: 2402 MHz
Frequency Range 1 GHz ~ 2	5 (H7	tector Function & ndwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak (802.11g) AV: RB=1 MHz, VB=1 kHz, DET=Peak (BT LE)

	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	2390.00	66.3 PK	74.0	-7.7	1.16 H	37	53.6	12.7
2	2390.00	52.3 AV	54.0	-1.7	1.16 H	37	39.6	12.7
3	4804.00	52.8 PK	74.0	-21.2	3.68 H	108	39.7	13.1
4	4804.00	38.9 AV	54.0	-15.1	3.68 H	108	25.8	13.1
5	4874.00	61.1 PK	74.0	-12.9	1.88 H	41	47.5	13.6
6	4874.00	47.4 AV	54.0	-6.6	1.88 H	41	33.8	13.6
		An	tenna Polari	ty & Test Dis	stance : Vert	ical 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	2390.00	67.1 PK	74.0	-6.9	1.51 V	128	54.4	12.7
2	2390.00	52.8 AV	54.0	-1.2	1.51 V	128	40.1	12.7

Remarks:

4804.00

4804.00

4874.00

4874.00

3

4

5

6

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

74.0

54.0

74.0

54.0

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)

-21.7

-15.6

-13.3

-7.0

2.08 V

2.08 V

1.57 V

1.57 V

162

162

164

164

39.2

25.3

47.1

33.4

13.1

13.1

13.6

13.6

3. Margin value = Emission Level - Limit value

52.3 PK

38.4 AV

60.7 PK

47.0 AV

4. The other emission levels were very low against the limit.



Below 1GHz data:

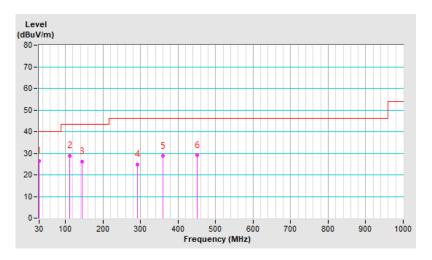
802.11g: CH 6 + BT LE (2M): CH 0

RF Mode	802.11g + BT LE (2M)	l Channol	CH 6 : 2437 MHz + CH 0 : 2402 MHz
Frequency Range	9 kHz ~ 1 GHz		QP: RB=120kHz, DET=Quasi-Peak

	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	30.58	26.6 QP	40.0	-13.4	1.01 H	206	37.2	-10.6
2	111.53	28.8 QP	43.5	-14.7	1.46 H	360	40.4	-11.6
3	144.85	26.1 QP	43.5	-17.4	1.26 H	70	34.6	-8.5
4	292.29	24.7 QP	46.0	-21.3	1.73 H	123	31.1	-6.4
5	359.99	28.7 QP	46.0	-17.3	1.86 H	100	33.7	-5.0
6	451.56	29.0 QP	46.0	-17.0	1.94 H	208	31.7	-2.7

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 \sim 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



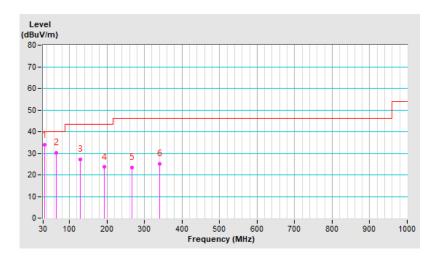


RF Mode	802.11g + BT LE (2M)	Channel	CH 6 : 2437 MHz + CH 0 : 2402 MHz
Frequency Range	9 kHz ~ 1 GHz		QP: RB=120kHz, DET=Quasi-Peak

	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	34.12	33.8 QP	40.0	-6.2	1.48 V	360	44.1	-10.3
2	64.14	30.1 QP	40.0	-9.9	1.75 V	201	40.0	-9.9
3	129.52	27.1 QP	43.5	-16.4	1.56 V	156	37.0	-9.9
4	192.57	23.6 QP	43.5	-19.9	1.23 V	334	34.3	-10.7
5	267.26	23.4 QP	46.0	-22.6	1.98 V	187	30.7	-7.3
6	340.11	25.1 QP	46.0	-20.9	1.65 V	156	30.3	-5.2

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.





5	Construction Photos of EUT.			
Ple	Please refer to the attached file (Test Setup Photo)			



Appendix - 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.

If you have any comments, please feel free to contact us at the following:

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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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