

# FCC Test Report

## (Co-Located)

**Report No.:** RFBDKX-WTW-P23090577-4  
**FCC ID:** EMJOH1  
**Product:** Level Bridge  
**Brand:** Level  
**Model No.:** H1  
**Received Date:** 2023/9/25  
**Test Date:** 2023/9/28 ~ 2023/10/19  
**Issued Date:** 2023/10/24

**Applicant:** PRIMAX ELECTRONICS LTD.

**Address:** No. 669, Ruey Kuang Road, Neihu, Taipei, Taiwan, R.O.C.

**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
RFBDKX-WTW-P23090577-4	Original release	2023/10/24

## 1 Certificate of Conformity

**Product:** Level Bridge

**Brand:** Level

**Test Model:** H1

**Sample Status:** Engineering sample

**Applicant:** PRIMAX ELECTRONICS LTD.

**Test Date:** 2023/9/28 ~ 2023/10/19

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

**Measurement** ANSI C63.10-2013

**procedure:** 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 :** \_\_\_\_\_

*Annie Chang*

**Date:** \_\_\_\_\_ 2023/10/24

Annie Chang / Senior Specialist

**Approved by :** \_\_\_\_\_

*Jeremy Lin*

**Date:** \_\_\_\_\_ 2023/10/24

Jeremy Lin / Project Engineer

## 2 Summary of Test Results

Applied Standard	47 CFR FCC Part 15, Subpart C (Section 15.247)		
Clause	Test Item	Result	Remarks
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Meet the requirement of limit. Minimum passing margin is -6.9dB at 37.66MHz.
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Meet the requirement of limit. Minimum passing margin is -1.1dB at 2483.50MHz.
15.207	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -4.58dB at 0.90245MHz.

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) (±)
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.38 dB
	30 MHz ~ 1 GHz	5.7 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 6 GHz	4.83 dB
	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	Level Bridge	
Brand	Level	
Test Model	H1	
Status of EUT	Engineering sample	
Power Supply Rating	AC I/P: 120V, 60 Hz, 0.2A	
Modulation Type	BT-LE	GFSK
	Zigbee	O-QPSK
	Thread	O-QPSK
	Sub-GHz	FSK
Modulation Technology	BT-LE	DTS
Transfer Rate	BT-LE	125k, 500k, 1M, 2M
	Zigbee	250kb/s
	Thread	250kb/s
	Sub-GHz	9.6kbit/s
Operating Frequency	BT-LE	2.402 GHz ~ 2.478 GHz
	Zigbee	2.405 GHz ~ 2.475 GHz
	Thread	2.405 GHz ~ 2.475 GHz
	Sub-GHz	906 MHz ~ 924 MHz
Number of Channel	BT-LE	39
	Zigbee	15
	Thread	15
	Sub-GHz	10
Output Power	BT-LE	67.92 mW (18.32 dBm)
	Zigbee	23.388 mW (13.69 dBm)
	Thread	130.617 mW (21.16 dBm)
	Sub-GHz	77.446 mW (18.89 dBm)

Note:

1. There are Bluetooth LE, Zigbee, Thread and Sub-GHz technology used for the EUT.
2. Simultaneously transmission condition.

Condition	Technology		
1	Bluetooth LE	Zigbee	Sub-GHz
2	Thread	Zigbee	Sub-GHz

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

The antenna information is listed as below.

Function	Gain (dBi)	Antenna Type	Connector Type
BT-LE	1.77	PIFA	NA
Zigbee	1.39	PIFA	NA
Thread	1.77	PIFA	NA
Sub-GHz	-2.33	IFA	NA

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

### 3.3 Description of Test Modes

39 channels are provided for BT-LE:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460		

15 channels are provided for Zigbee:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
11	2405	19	2445
12	2410	20	2450
13	2415	21	2455
14	2420	22	2460
15	2425	23	2465
16	2430	24	2470
17	2435	25	2475
18	2440		

15 channels are provided for Thread:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
11	2405MHz	19	2445MHz
12	2410MHz	20	2450MHz
13	2415MHz	21	2455MHz
14	2420MHz	22	2460MHz
15	2425MHz	23	2465MHz
16	2430MHz	24	2470MHz
17	2435MHz	25	2475MHz
18	2440MHz		

10 channels are provided for Sub-GHz:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	906	6	916
2	908	7	918
3	910	8	920
4	912	9	922
5	914	10	924



### 3.3.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To			Description
	RE $\geq$ 1G	RE $<$ 1G	PLC	
A	√	√	√	BT-LE + Zigbee + Sub-GHz
B	√	√	√	Thread + Zigbee + Sub-GHz

Where  
**RE $\geq$ 1G:** Radiated Emission above 1GHz  
**RE $<$ 1G:** Radiated Emission below 1GHz  
**PLC:** Power Line Conducted Emission

#### **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.

EUT Configure Mode	Mode	Freq. Range (MHz)	Available Channel	Tested Channel	Modulation
A	BT-LE + Zigbee + Sub-GHz	2402 ~ 2478	0 to 38	19 + 25 + 1	GFSK
		2405 ~ 2475	11 to 25		O-QPSK
		906 ~ 924	1 to 10		FSK
B	Thread + Zigbee + Sub-GHz	2405 ~ 2475	11 to 25	25 + 25 + 1	O-QPSK
		2405 ~ 2475	11 to 25		O-QPSK
		906 ~ 924	1 to 10		FSK

#### **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.

EUT Configure Mode	Mode	Freq. Range (MHz)	Available Channel	Tested Channel	Modulation
A	BT-LE + Zigbee + Sub-GHz	2402 ~ 2478	0 to 38	19 + 25 + 1	GFSK
		2405 ~ 2475	11 to 25		O-QPSK
		906 ~ 924	1 to 10		FSK
B	Thread + Zigbee + Sub-GHz	2405 ~ 2475	11 to 25	25 + 25 + 1	O-QPSK
		2405 ~ 2475	11 to 25		O-QPSK
		906 ~ 924	1 to 10		FSK

#### **Power Line Conducted Emission Test:**

- 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.

EUT Configure Mode	Mode	Freq. Range (MHz)	Available Channel	Tested Channel	Modulation
A	BT-LE + Zigbee + Sub-GHz	2402 ~ 2478	0 to 38	19 + 25 + 1	GFSK
		2405 ~ 2475	11 to 25		O-QPSK
		906 ~ 924	1 to 10		FSK
B	Thread + Zigbee + Sub-GHz	2405 ~ 2475	11 to 25	25 + 25 + 1	O-QPSK
		2405 ~ 2475	11 to 25		O-QPSK
		906 ~ 924	1 to 10		FSK

#### **Test Condition:**

Applicable To	Environmental Conditions	Input Power	Tested By
RE $>$ 1G	23deg. C, 68%RH	120Vac, 60Hz	Jed Wu
	23deg. C, 69%RH		
RE $<$ 1G	23deg. C, 69%RH	120Vac, 60Hz	Jed Wu
PLC	25deg. C, 75%RH	120Vac, 60Hz	Jed Wu

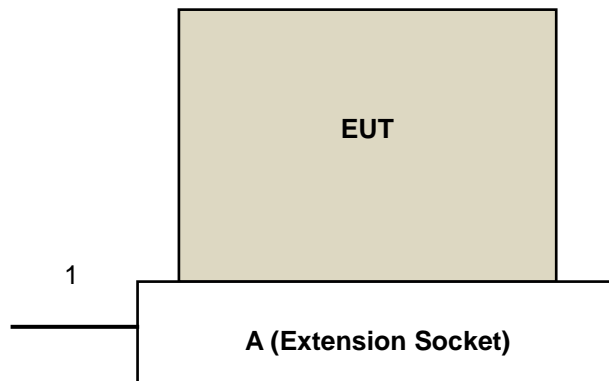
### 3.4 Description of Support Units

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

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Extension Socket	N/A	N/A	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	AC cable	1	2	N	0	Provided by Lab

#### 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)**

**ANSI C63.10-2013**

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

**References Test Guidance:**

**KDB 558074 D01 15.247 Meas Guidance v05r02**

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

## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

#### 4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

Radiated emissions above 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 20 dB below the highest level of the desired power:

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.

#### 4.1.2 Test Instruments

##### Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	137	2022/10/21	2023/10/20
Coupling / Decoupling Network Schwarzbeck	CDNE-M2	00097	2023/5/25	2024/5/24
	CDNE-M3	00091	2023/5/25	2024/5/24
Loop Antenna EMCI	LPA600	270	2023/9/4	2024/9/3
MXE EMI Receiver Agilent	N9038A	MY51210129	2023/3/24	2024/3/23
		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 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: 2023/10/17

Unwanted Emissions above 1 GHz

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 Agilent	N9038A	MY51210129	2023/3/24	2024/3/23
		MY51210137	2023/6/5	2024/6/4
Notch Filter Micro-Tronics	BRC50703-01	010	2023/5/25	2024/5/24
Preamplifier EMCI	EMC0126545	980076	2023/2/16	2024/2/15
	EMC184045B	980175	2023/9/2	2024/9/1
		980235	2023/2/16	2024/2/15
Preamplifier HP	8449B	3008A01201	2023/2/16	2024/2/15
RF Coaxial Cable EMCI	EMC102-KM-KM-1000	200310	2023/3/12	2024/3/11
	EMC104	190801	2023/9/13	2024/9/12
		190804	2023/9/13	2024/9/12
RF Coaxial Cable HUBER+SUHNER	SF-104	Cable-CH6-01	2023/9/13	2024/9/12
Signal Analyzer R&S	FSV40	101042	2023/9/5	2024/9/4
		101544	2023/5/9	2024/5/8
Software BVADT	Radiated_V7.7.1.1.1	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: 2023/10/5 ~ 2023/10/17

#### 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 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 30MHz**

- 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:

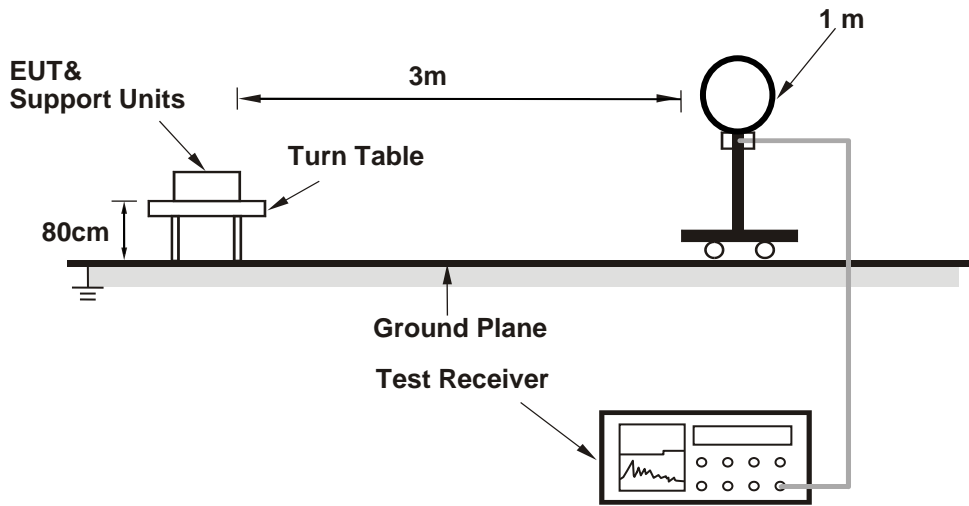
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 Deviation from Test Standard

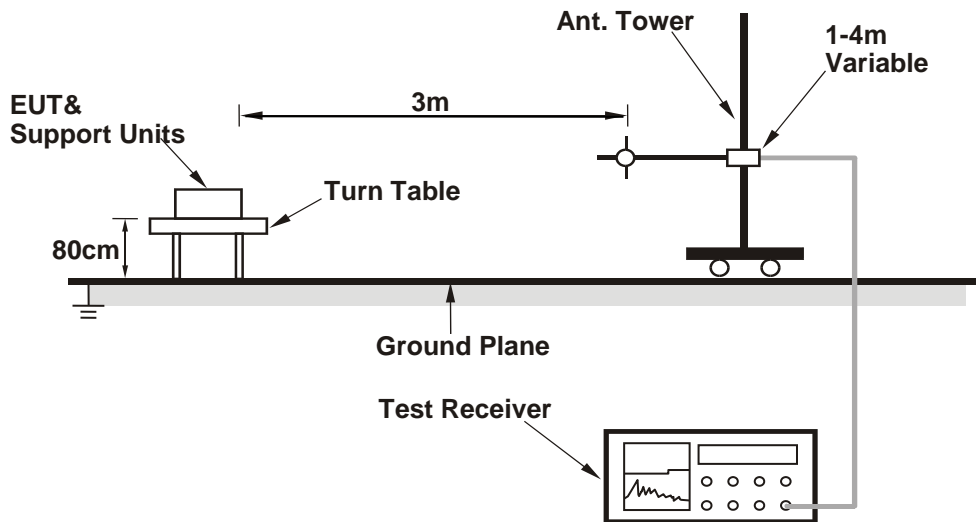
No deviation.

#### 4.1.5 Test Setup

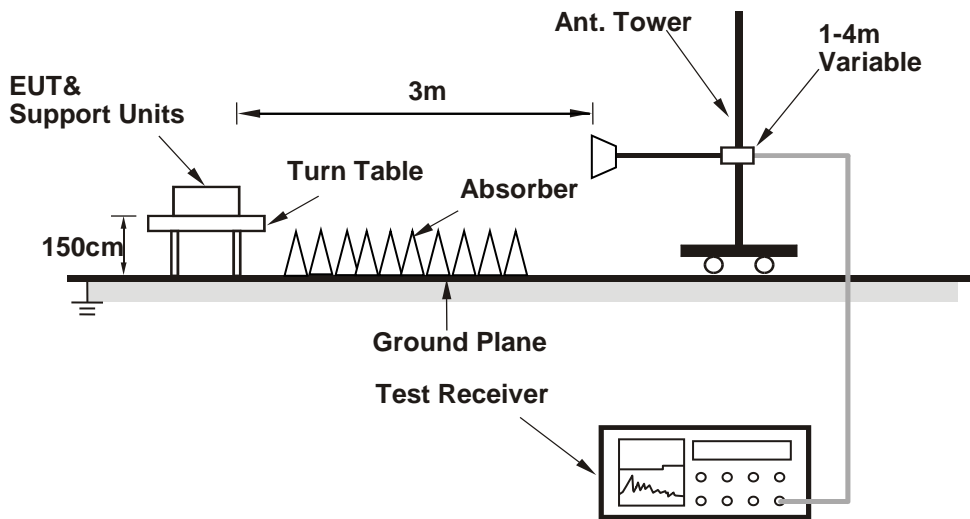
##### For Radiated emission below 30MHz



##### 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 (Tera Term V4.8) has been activated to set the EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

Above 1GHz data:

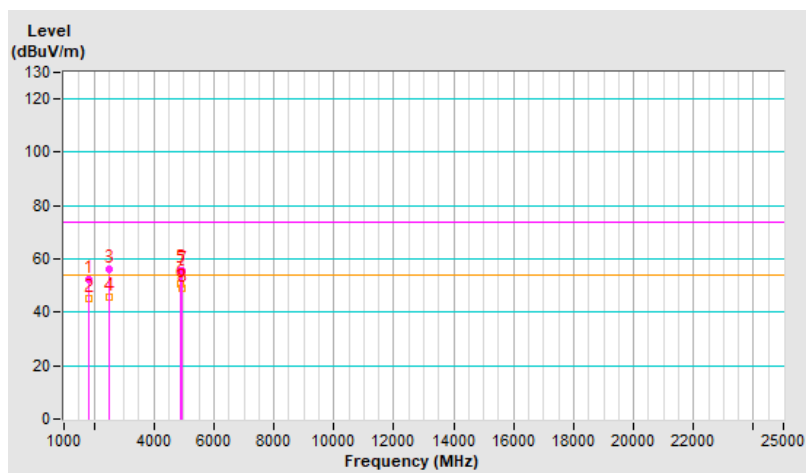
Mode A

<b>RF Mode</b>	BT-LE + Zigbee + Sub-GHz	<b>Channel</b>	CH 19 : 2440 MHz + CH 25 : 2475 MHz + CH 1 : 906 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Environmental Conditions</b>	23°C, 68% RH
<b>Input Power</b>	120 Vac, 60 Hz	<b>Tested By</b>	William Su
<b>Detector Function &amp; Bandwidth</b>	BT-LE + Zigbee: PK: RB=1 MHz, VB=3 MHz, DET=Peak; AV: RB=1 MHz, VB=10 Hz, DET=Peak Sub-GHz PK: RB=100 kHz, VB=300 kHz, DET=Peak; AV: RB=100 kHz, VB=10 Hz, DET=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	#1812.00	52.3 PK			3.78 H	78	56.2	-3.9
2	#1812.00	45.3 AV			3.78 H	78	49.2	-3.9
3	2483.50	56.2 PK	74.0	-17.8	2.34 H	306	57.1	-0.9
4	2483.50	45.8 AV	54.0	-8.2	2.34 H	306	46.7	-0.9
5	4880.00	55.9 PK	74.0	-18.1	3.34 H	75	47.9	8.0
6	4880.00	50.6 AV	54.0	-3.4	3.34 H	75	42.6	8.0
7	4950.00	55.5 PK	74.0	-18.5	2.45 H	122	47.6	7.9
8	4950.00	48.9 AV	54.0	-5.1	2.45 H	122	41.0	7.9

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.
5. " # ": The radiated frequency is out of the restricted band, the limit was restricted at the Conducted Out of Band Emissions.

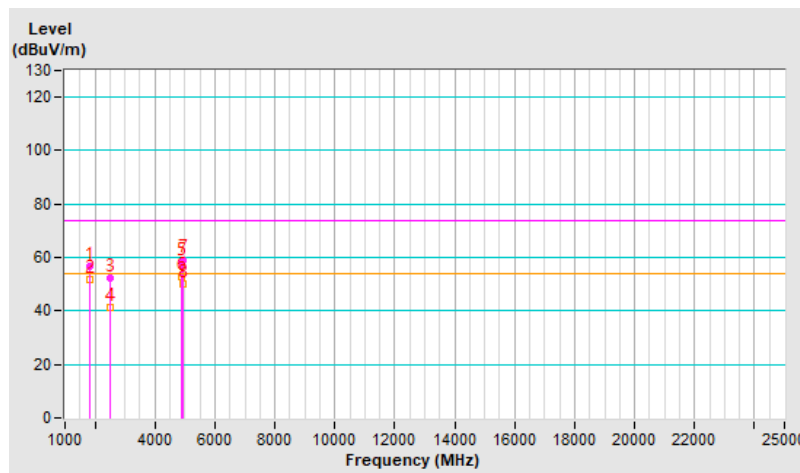


<b>RF Mode</b>	BT-LE + Zigbee + Sub-GHz	<b>Channel</b>	CH 19 : 2440 MHz + CH 25 : 2475 MHz + CH 1 : 906 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Environmental Conditions</b>	23°C, 68% RH
<b>Input Power</b>	120 Vac, 60 Hz	<b>Tested By</b>	William Su
<b>Detector Function &amp; Bandwidth</b>	BT-LE + Zigbee: PK: RB=1 MHz, VB=3 MHz, DET=Peak; AV: RB=1 MHz, VB=10 Hz, DET=Peak Sub-GHz PK: RB=100 kHz, VB=300 kHz, DET=Peak; AV: RB=100 kHz, VB=10 Hz, DET=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	#1812.00	56.8 PK			1.44 V	221	60.7	-3.9
2	#1812.00	51.8 AV			1.44 V	221	55.7	-3.9
3	2483.50	52.5 PK	74.0	-21.5	3.69 V	204	53.4	-0.9
4	2483.50	41.4 AV	54.0	-12.6	3.69 V	204	42.3	-0.9
5	4880.00	58.2 PK	74.0	-15.8	2.85 V	266	50.2	8.0
6	4880.00	52.8 AV	54.0	-1.2	2.85 V	266	44.8	8.0
7	4950.00	59.2 PK	74.0	-14.8	1.68 V	254	51.3	7.9
8	4950.00	50.3 AV	54.0	-3.7	1.68 V	254	42.4	7.9

**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.
5. "#": The radiated frequency is out of the restricted band, the limit was restricted at the Conducted Out of Band Emissions.



Mode B

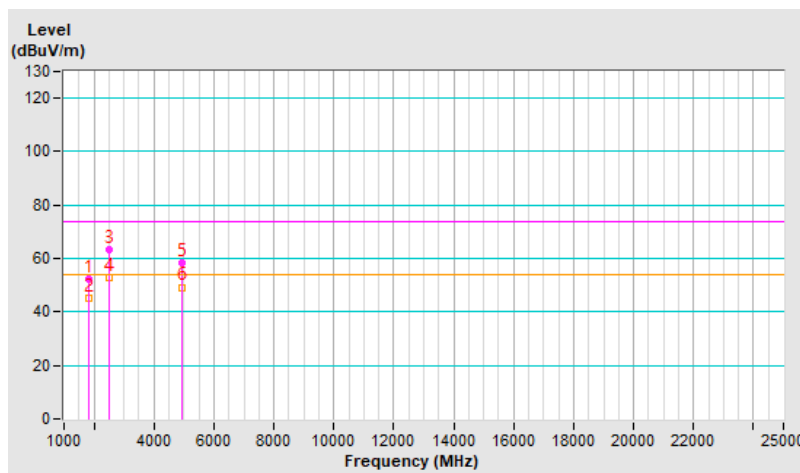
<b>RF Mode</b>	Thread + Zigbee + Sub-GHz	<b>Channel</b>	CH 25 : 2475 MHz + CH 25 : 2475 MHz + CH 1 : 906 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Input Power</b>	120 Vac, 60 Hz	<b>Tested By</b>	William Su
<b>Detector Function &amp; Bandwidth</b>	Thread + Zigbee: PK: RB=1 MHz, VB=3 MHz, DET=Peak; AV: RB=1 MHz, VB=10 Hz, DET=Peak Sub-GHz PK: RB=100 kHz, VB=300 kHz, DET=Peak; AV: RB=100 kHz, VB=10 Hz, DET=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	#1812.00	52.3 PK			3.78 H	78	56.2	-3.9
2	#1812.00	45.3 AV			3.78 H	78	49.2	-3.9
3	2483.50	63.1 PK	74.0	-10.9	2.11 H	301	64.0	-0.9
<b>4</b>	<b>2483.50</b>	<b>52.9 AV</b>	<b>54.0</b>	<b>-1.1</b>	<b>2.11 H</b>	<b>301</b>	<b>53.8</b>	<b>-0.9</b>
5	4950.00	58.3 PK	74.0	-15.7	3.40 H	220	50.4	7.9
6	4950.00	49.3 AV	54.0	-4.7	3.40 H	220	41.4	7.9

**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.
5. "#": The radiated frequency is out of the restricted band, the limit was restricted at the Conducted Out of Band Emissions.

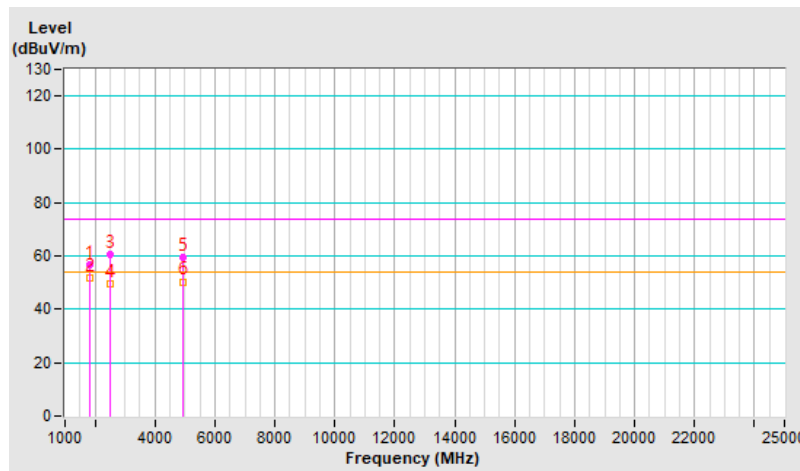


<b>RF Mode</b>	Thread + Zigbee + Sub-GHz	<b>Channel</b>	CH 25 : 2475 MHz + CH 25 : 2475 MHz + CH 1 : 906 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Input Power</b>	120 Vac, 60 Hz	<b>Tested By</b>	William Su
<b>Detector Function &amp; Bandwidth</b>	Thread + Zigbee: PK: RB=1 MHz, VB=3 MHz, DET=Peak; AV: RB=1 MHz, VB=10 Hz, DET=Peak Sub-GHz PK: RB=100 kHz, VB=300 kHz, DET=Peak; AV: RB=100 kHz, VB=10 Hz, DET=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	#1812.00	56.8 PK			1.44 V	221	60.7	-3.9
2	#1812.00	51.8 AV			1.44 V	221	55.7	-3.9
3	2483.50	60.5 PK	74.0	-13.5	3.38 V	247	61.4	-0.9
4	2483.50	49.8 AV	54.0	-4.2	3.38 V	247	50.7	-0.9
5	4950.00	59.3 PK	74.0	-14.7	1.66 V	258	51.4	7.9
6	4950.00	50.4 AV	54.0	-3.6	1.66 V	258	42.5	7.9

**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.
5. "#": The radiated frequency is out of the restricted band, the limit was restricted at the Conducted Out of Band Emissions.



Below 1GHz data:

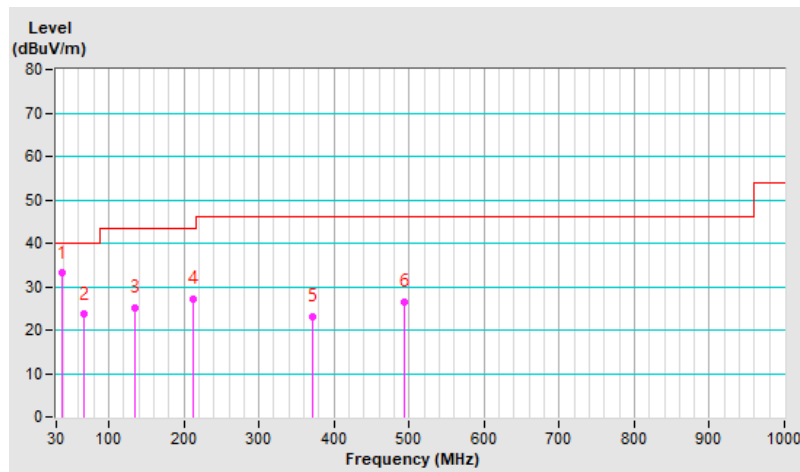
Mode A

<b>RF Mode</b>	BT-LE + Zigbee + Sub-GHz	<b>Channel</b>	CH 19 : 2440 MHz + CH 25 : 2475 MHz + CH 1 : 906 MHz
<b>Frequency Range</b>	30 MHz ~ 1 GHz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Input Power</b>	120 Vac, 60 Hz	<b>Tested By</b>	William Su
<b>Detector Function &amp; Bandwidth</b>	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	37.66	33.1 QP	40.0	-6.9	1.00 H	165	43.1	-10.0
2	66.42	23.6 QP	40.0	-16.4	1.00 H	22	33.8	-10.2
3	135.10	25.1 QP	43.5	-18.4	1.00 H	250	34.5	-9.4
4	211.49	27.1 QP	43.5	-16.4	1.00 H	250	37.9	-10.8
5	371.00	23.2 QP	46.0	-22.8	1.00 H	34	28.1	-4.9
6	493.66	26.4 QP	46.0	-19.6	1.00 H	86	28.6	-2.2

**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.

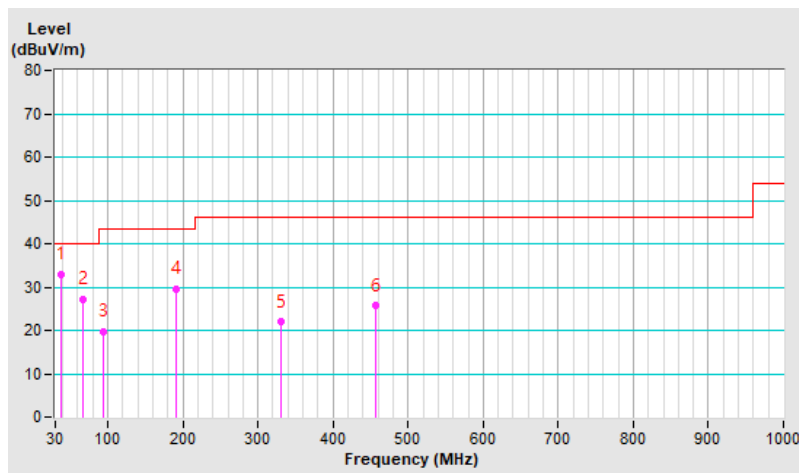


<b>RF Mode</b>	BT-LE + Zigbee + Sub-GHz	<b>Channel</b>	CH 19 : 2440 MHz + CH 25 : 2475 MHz + CH 1 : 906 MHz
<b>Frequency Range</b>	30 MHz ~ 1 GHz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Input Power</b>	120 Vac, 60 Hz	<b>Tested By</b>	William Su
<b>Detector Function &amp; Bandwidth</b>	QP: RB=120kHz, 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	37.76	32.9 QP	40.0	-7.1	1.00 V	74	42.8	-9.9
2	66.57	27.1 QP	40.0	-12.9	1.00 V	147	37.4	-10.3
3	93.63	19.8 QP	43.5	-23.7	1.00 V	1	33.8	-14.0
4	190.83	29.5 QP	43.5	-14.0	1.00 V	246	40.3	-10.8
5	330.12	21.9 QP	46.0	-24.1	1.00 V	321	27.3	-5.4
6	457.48	25.6 QP	46.0	-20.4	1.00 V	16	28.3	-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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



Mode B

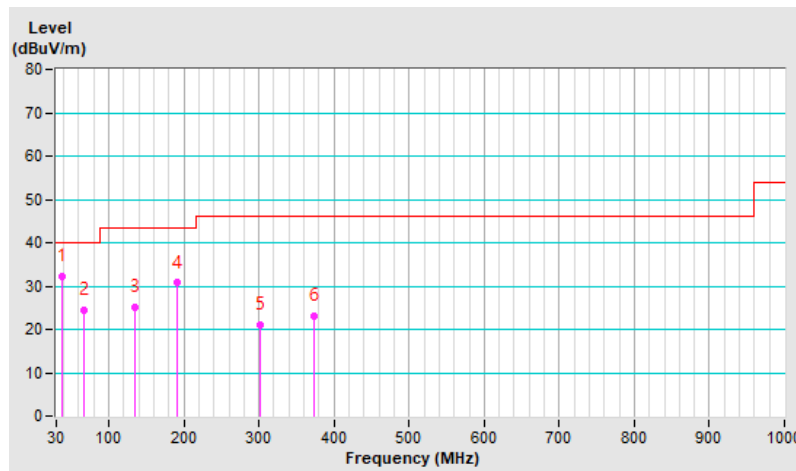
<b>RF Mode</b>	Thread + Zigbee + Sub-GHz	<b>Channel</b>	CH 25 : 2475 MHz + CH 25 : 2475 MHz + CH 1 : 906 MHz
<b>Frequency Range</b>	30 MHz ~ 1 GHz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Input Power</b>	120 Vac, 60 Hz	<b>Tested By</b>	William Su
<b>Detector Function &amp; Bandwidth</b>	QP: RB=120kHz, 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	37.47	32.3 QP	40.0	-7.7	1.88 H	13	42.3	-10.0
2	66.42	24.5 QP	40.0	-15.5	1.73 H	360	34.8	-10.3
3	134.47	25.1 QP	43.5	-18.4	1.92 H	275	34.7	-9.6
4	190.87	30.7 QP	43.5	-12.8	1.42 H	246	41.5	-10.8
5	301.79	21.1 QP	46.0	-24.9	1.30 H	88	27.4	-6.3
6	372.56	23.2 QP	46.0	-22.8	1.52 H	350	28.1	-4.9

**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.

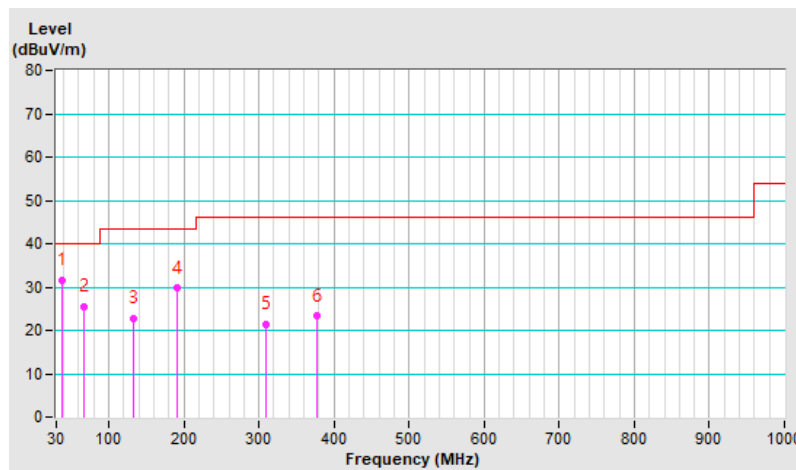


<b>RF Mode</b>	Thread + Zigbee + Sub-GHz	<b>Channel</b>	CH 25 : 2475 MHz + CH 25 : 2475 MHz + CH 1 : 906 MHz
<b>Frequency Range</b>	30 MHz ~ 1 GHz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Input Power</b>	120 Vac, 60 Hz	<b>Tested By</b>	William Su
<b>Detector Function &amp; Bandwidth</b>	QP: RB=120kHz, 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	37.71	31.6 QP	40.0	-8.4	1.51 V	350	41.5	-9.9
2	66.62	25.5 QP	40.0	-14.5	1.46 V	292	35.8	-10.3
3	132.87	22.8 QP	43.5	-20.7	1.28 V	231	32.5	-9.7
4	190.68	29.7 QP	43.5	-13.8	1.32 V	248	40.5	-10.8
5	309.85	21.3 QP	46.0	-24.7	1.79 V	96	27.3	-6.0
6	378.04	23.3 QP	46.0	-22.7	1.02 V	195	27.9	-4.6

**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.





## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

### 4.2.2 Test Instruments

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance LYNICS	0900510	E1-01-305	2023/2/13	2024/2/12
		E1-011285	2023/9/21	2024/9/20
		E1-011286	2023/9/21	2024/9/20
EMI Test Receiver R&S	ESCS 30	100276	2023/4/20	2024/4/19
	ESR3	102412	2022/12/21	2023/12/20
Fixed Attenuator STI	STI02-2200-10	NO.4	2023/9/1	2024/8/31
High Voltage Probe Schwarzbeck	TK9420	00982	2022/12/14	2023/12/13
LISN R&S	ENV216	101197	2023/7/12	2024/7/11
LISN Schwarzbeck	NNLK 8121	8121-731	2023/6/9	2024/6/8
		8121-808	2023/5/2	2024/5/1
	NNLK 8129	8129229	2023/6/27	2024/6/26
	NSLK 8128	8128-244	2022/11/8	2023/11/7
RF Coaxial Cable PEWC	5D-FB	Cable-CO5-01	2023/1/19	2024/1/18
Software BVADT	Cond_V7.3.7.4	N/A	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 Conduction 5.
3. Tested Date: 2023/10/19

#### 4.2.3 Test Procedures

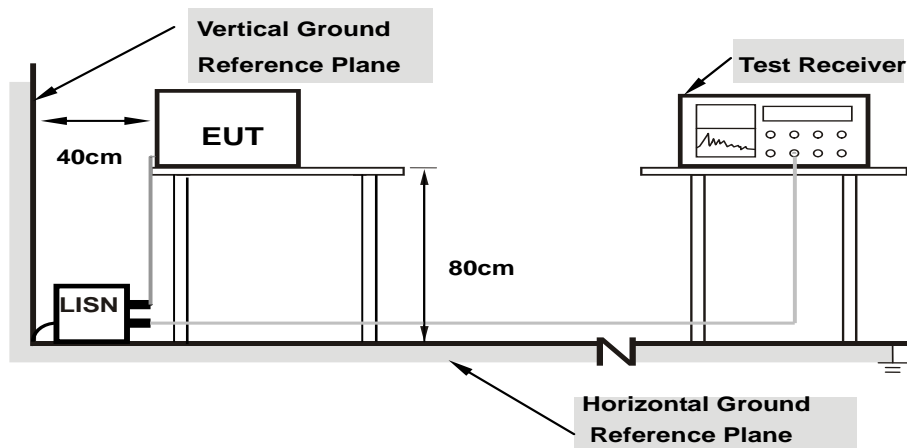
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

**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.

#### 4.2.4 Deviation From Test Standard

No deviation.

#### 4.2.5 Test Setup



**Note: 1.Support units were connected to second LISN.**

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

#### 4.2.6 EUT Operating Condition

Same as item 4.1.6.

#### 4.2.7 Test Results

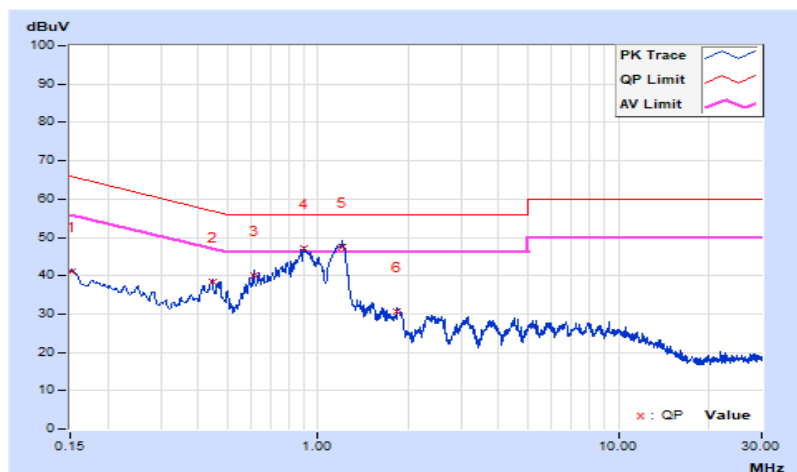
##### Mode A

<b>RF Mode</b>	BT-LE + Zigbee + Sub-GHz	<b>Channel</b>	CH 19 : 2440 MHz + CH 25 : 2475 MHz + CH 1 : 906 MHz
<b>Frequency Range</b>	150 kHz ~ 30 MHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9 kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	25°C, 75% RH
<b>Tested By</b>	Jed Wu		

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	0.15225	10.05	30.92	23.04	40.97	33.09	65.88	55.88	-24.91	-22.79
2	0.44474	10.24	28.07	22.68	38.31	32.92	56.97	46.97	-18.66	-14.05
3	0.61350	10.28	29.83	24.56	40.11	34.84	56.00	46.00	-15.89	-11.16
<b>4</b>	<b>0.90245</b>	<b>10.35</b>	<b>36.75</b>	<b>31.07</b>	<b>47.10</b>	<b>41.42</b>	<b>56.00</b>	<b>46.00</b>	<b>-8.90</b>	<b>-4.58</b>
5	1.20075	10.38	37.11	28.89	47.49	39.27	56.00	46.00	-8.51	-6.73
6	1.83075	10.39	20.30	11.74	30.69	22.13	56.00	46.00	-25.31	-23.87

##### 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

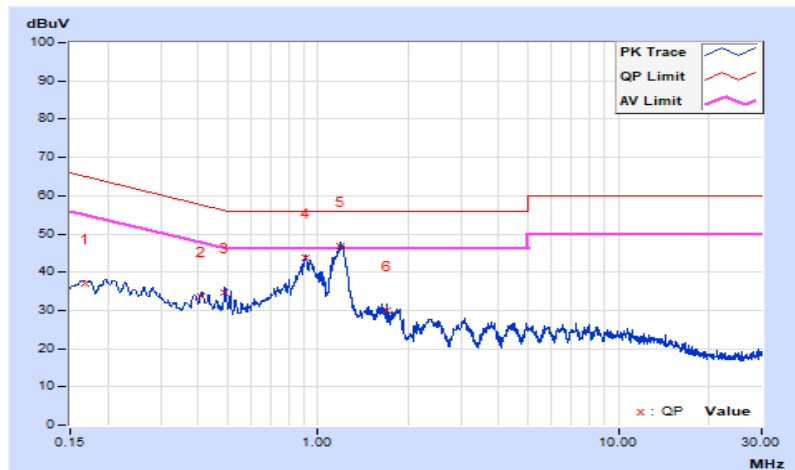


<b>RF Mode</b>	BT-LE + Zigbee + Sub-GHz	<b>Channel</b>	CH 19 : 2440 MHz + CH 25 : 2475 MHz + CH 1 : 906 MHz
<b>Frequency Range</b>	150 kHz ~ 30 MHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9 kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	25°C, 75% RH
<b>Tested By</b>	Jed Wu		

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	0.16800	10.11	27.07	19.43	37.18	29.54	65.06	55.06	-27.88	-25.52
2	0.40871	10.21	23.38	19.05	33.59	29.26	57.67	47.67	-24.08	-18.41
3	0.49168	10.22	24.37	18.78	34.59	29.00	56.14	46.14	-21.55	-17.14
4	0.90825	10.26	33.65	29.65	43.91	39.91	56.00	46.00	-12.09	-6.09
5	1.19400	10.27	36.39	28.31	46.66	38.58	56.00	46.00	-9.34	-7.42
6	1.69125	10.28	19.78	14.18	30.06	24.46	56.00	46.00	-25.94	-21.54

**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



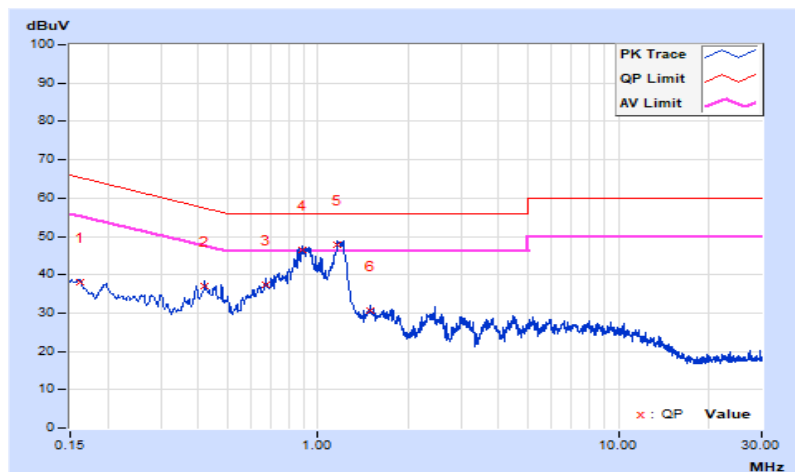
Mode B

<b>RF Mode</b>	Thread + Zigbee + Sub-GHz	<b>Channel</b>	CH 25 : 2475 MHz + CH 25 : 2475 MHz + CH 1 : 906 MHz
<b>Frequency Range</b>	150 kHz ~ 30 MHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9 kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	25°C, 75% RH
<b>Tested By</b>	Jed Wu		

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	0.16093	10.06	27.87	20.26	37.93	30.32	65.42	55.42	-27.49	-25.10
2	0.42075	10.23	26.76	21.71	36.99	31.94	57.43	47.43	-20.44	-15.49
3	0.67200	10.29	27.14	22.56	37.43	32.85	56.00	46.00	-18.57	-13.15
4	0.89025	10.34	36.10	29.51	46.44	39.85	56.00	46.00	-9.56	-6.15
5	1.16700	10.38	37.41	29.80	47.79	40.18	56.00	46.00	-8.21	-5.82
6	1.50221	10.39	20.11	13.53	30.50	23.92	56.00	46.00	-25.50	-22.08

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

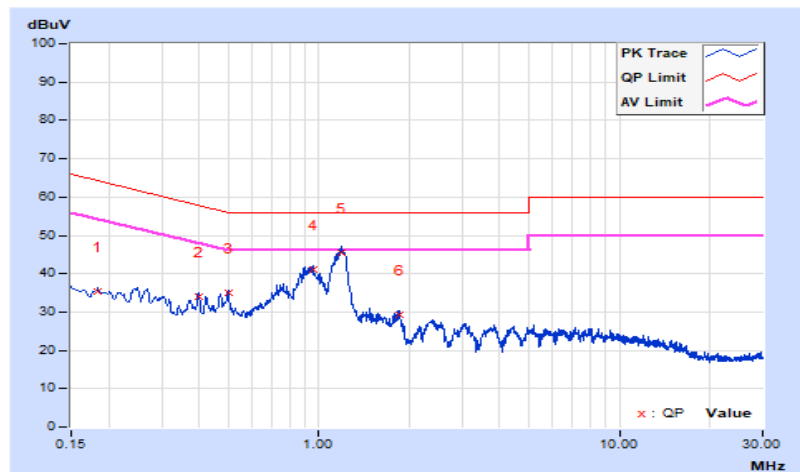


<b>RF Mode</b>	Thread + Zigbee + Sub-GHz	<b>Channel</b>	CH 25 : 2475 MHz + CH 25 : 2475 MHz + CH 1 : 906 MHz
<b>Frequency Range</b>	150 kHz ~ 30 MHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9 kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	25°C, 75% RH
<b>Tested By</b>	Jed Wu		

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	0.18375	10.14	25.19	19.26	35.33	29.40	64.31	54.31	-28.98	-24.91
2	0.39701	10.21	23.70	19.42	33.91	29.63	57.92	47.92	-24.01	-18.29
3	0.49875	10.22	24.63	19.34	34.85	29.56	56.02	46.02	-21.17	-16.46
4	0.95325	10.27	30.67	21.72	40.94	31.99	56.00	46.00	-15.06	-14.01
5	1.18725	10.27	35.28	27.10	45.55	37.37	56.00	46.00	-10.45	-8.63
6	1.85325	10.28	19.16	11.03	29.44	21.31	56.00	46.00	-26.56	-24.69

**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



## 5 Construction Photos of EUT.

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.

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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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