

# TEST REPORT

## CERTIFICATE OF CONFORMITY

**Standard:** 47 CFR FCC Part 15, Subpart C (Section 15.247)  
**Report No.:** RFBDKX-WTW-P23090081-5  
**FCC ID:** 2ATIO5  
**Product:** Home IOT Gateway  
**Brand:** Level  
**Model No.:** H5  
**Series Model:** H2  
**Received Date:** 2023/9/5  
**Test Date:** 2023/9/13 ~ 2023/11/29  
**Issued Date:** 2023/12/8  
**Applicant:** Level Home Inc.  
**Address:** 935 Main Street, Redwood City, California 94063, United States of America  
**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 /** 198487 / TW2021  
**Designation Number:**

**Approved by:** Jeremy Lin, **Date:** 2023/12/8  
Jeremy Lin / Project Engineer

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Prepared by : Annie Chang / Senior Specialist

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## Table of Contents

<b>Release Control Record .....</b>	<b>4</b>
<b>1 Certificate.....</b>	<b>5</b>
<b>2 Summary of Test Results .....</b>	<b>6</b>
2.1 Measurement Uncertainty .....	6
2.2 Supplementary Information .....	6
<b>3 General Information .....</b>	<b>7</b>
3.1 General Description .....	7
3.2 Antenna Description of EUT .....	9
3.3 Channel List .....	9
3.4 Test Mode Applicability and Tested Channel Detail .....	10
3.5 Duty Cycle of Test Signal .....	11
3.6 Test Program Used and Operation Descriptions .....	13
3.7 Connection Diagram of EUT and Peripheral Devices .....	13
3.8 Configuration of Peripheral Devices and Cable Connections .....	13
<b>4 Test Instruments .....</b>	<b>14</b>
4.1 RF Output Power .....	14
4.2 Power Spectral Density .....	14
4.3 6 dB Bandwidth .....	14
4.4 Conducted Out of Band Emissions .....	14
4.5 AC Power Conducted Emissions .....	15
4.6 Unwanted Emissions below 1 GHz .....	16
4.7 Unwanted Emissions above 1 GHz .....	17
<b>5 Limits of Test Items.....</b>	<b>18</b>
5.1 RF Output Power .....	18
5.2 Power Spectral Density .....	18
5.3 6 dB Bandwidth .....	18
5.4 Conducted Out of Band Emissions .....	18
5.5 AC Power Conducted Emissions .....	18
5.6 Unwanted Emissions below 1 GHz .....	18
5.7 Unwanted Emissions above 1 GHz .....	19
<b>6 Test Arrangements .....</b>	<b>20</b>
6.1 RF Output Power .....	20
6.1.1 Test Setup .....	20
6.1.2 Test Procedure .....	20
6.2 Power Spectral Density .....	20
6.2.1 Test Setup .....	20
6.2.2 Test Procedure .....	20
6.3 6 dB Bandwidth .....	21
6.3.1 Test Setup .....	21
6.3.2 Test Procedure .....	21
6.4 Conducted Out of Band Emissions .....	21
6.4.1 Test Setup .....	21
6.4.2 Test Procedure .....	21
6.5 AC Power Conducted Emissions .....	22
6.5.1 Test Setup .....	22
6.5.2 Test Procedure .....	22
6.6 Unwanted Emissions below 1 GHz .....	23
6.6.1 Test Setup .....	23
6.6.2 Test Procedure .....	24
6.7 Unwanted Emissions above 1 GHz .....	25
6.7.1 Test Setup .....	25
6.7.2 Test Procedure .....	25
<b>7 Test Results of Test Item .....</b>	<b>26</b>

7.1	RF Output Power.....	26
7.2	Power Spectral Density .....	28
7.3	6 dB Bandwidth .....	30
7.4	Conducted Out of Band Emissions .....	32
7.5	AC Power Conducted Emissions .....	36
7.6	Unwanted Emissions below 1 GHz .....	38
7.7	Unwanted Emissions above 1 GHz.....	40
<b>8</b>	<b>Pictures of Test Arrangements .....</b>	<b>60</b>
<b>9</b>	<b>Information of the Testing Laboratories .....</b>	<b>61</b>

## Release Control Record

Issue No.	Description	Date Issued
RFBDKX-WTW-P23090081-5	Original release.	2023/12/8

## 1 Certificate

**Product:** Home IOT Gateway  
**Brand:** Level  
**Test Model:** H5  
**Series Model:** H2  
**Sample Status:** Engineering sample  
**Applicant:** Level Home Inc.  
**Test Date:** 2023/9/13 ~ 2023/11/29  
**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	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.247(d)	Conducted Out of Band Emissions	Pass	Meet the requirement of limit.
15.207	AC Power Conducted Emissions	Pass	Minimum passing margin is -1.98 dB at 0.49168 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -2.8 dB at 308.00 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.8 dB at 2483.50 and 4960.00 MHz
15.203	Antenna Requirement	Pass	No antenna connector is used.

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) (±)
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.2 dB
6 dB Bandwidth	-	960 Hz
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.63 dB
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.88 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 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	Home IOT Gateway
Brand	Level
Test Model	H5
Series Model	H2
Model Difference	Refer to Note as below
Status of EUT	Engineering sample
Power Supply Rating	3.6Vdc from battery or 5Vdc from Adapter
Modulation Type	GFSK
Modulation Technology	DTS
Transfer Rate	125k, 500k, 1M, 2M
Operating Frequency	2.402 GHz ~ 2.48 GHz
Number of Channel	40
Output Power	14.06 mW (11.48 dBm)

Note:

1. All models are listed as below.

RF Radio List	Radio ID	Technology List	H5	H2
1	LTE	WWAN (LTE + WCDMA)	V	V
2	Z-Wave	Z-Wave	V	X
	Thread 900M	Thread 900M	V(Optional)	V
3	Thread	Thread	V(Optional)	V
	Zigbee	Zigbee	V	X
	BLE	BTLE	V	V
4	WiFi	WLAN(2.4G)	V	X
	BLE-SOM	BLE	V	V

2. There are WWAN, WLAN (2.4 GHz), Bluetooth LE, Zigbee, Thread, Z-Wave technology used for the EUT.

3. Simultaneously transmission condition.

Condition	Technology			
	Radio 1	Radio 2	Radio 3	Radio 4
1	WWAN	Z-Wave	Zigbee	BTLE
2	WWAN	Z-Wave	Thread	BTLE
3	WWAN	Z-Wave	BTLE	BTLE
4	WWAN	Thread 900M	Zigbee	BTLE
5	WWAN	Thread 900M	Thread	BTLE
6	WWAN	Thread 900M	BTLE	BTLE
7	-	Z-Wave	Zigbee	WLAN
8	-	Z-Wave	Thread	WLAN
9	-	Z-Wave	BTLE	WLAN
10	-	Thread 900M	Zigbee	WLAN
11	-	Thread 900M	Thread	WLAN
12	-	Thread 900M	BTLE	WLAN

4. The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter	CUI INC	SWH15-5B-N	AC Input : 100-240Vac 50/60Hz 0.5A Max DC Output : 5.0Vdc 3.0A DC Output Cable : Non-shielded without core, 1.8m
LAN Cable	-	-	Non-shielded without core, 1.0m

5. 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.

Antenna Type	Gain (dBi)	Connector Type
PIFA	4.06	None

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

### 3.3 Channel List

40 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	39	2480

### 3.4 Test Mode Applicability and Tested Channel Detail

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

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power / Power Spectral Density	BT-LE 1M	0, 19, 39	GFSK	1Mb/s
	BT-LE 2M	0, 19, 39	GFSK	2Mb/s
	BT-LE 125k	0, 19, 39	GFSK	125kbps
	BT-LE 500k	0, 19, 39	GFSK	500kbps
6 dB Bandwidth / Conducted Out of Band Emissions	BT-LE 1M	0, 19, 39	GFSK	1Mb/s
	BT-LE 2M	0, 19, 39	GFSK	2Mb/s
	BT-LE 125k	0, 19, 39	GFSK	125kbps
	BT-LE 500k	0, 19, 39	GFSK	500kbps
AC Power Conducted Emissions	BT-LE 1M	39	GFSK	1Mb/s
Unwanted Emissions below 1 GHz	BT-LE 1M	39	GFSK	1Mb/s
Unwanted Emissions above 1 GHz	BT-LE 1M	0, 19, 39	GFSK	1Mb/s
	BT-LE 2M	0, 19, 39	GFSK	2Mb/s
	BT-LE 125k	0, 19, 39	GFSK	125kbps
	BT-LE 500k	0, 19, 39	GFSK	500kbps
Note: Radio 3				

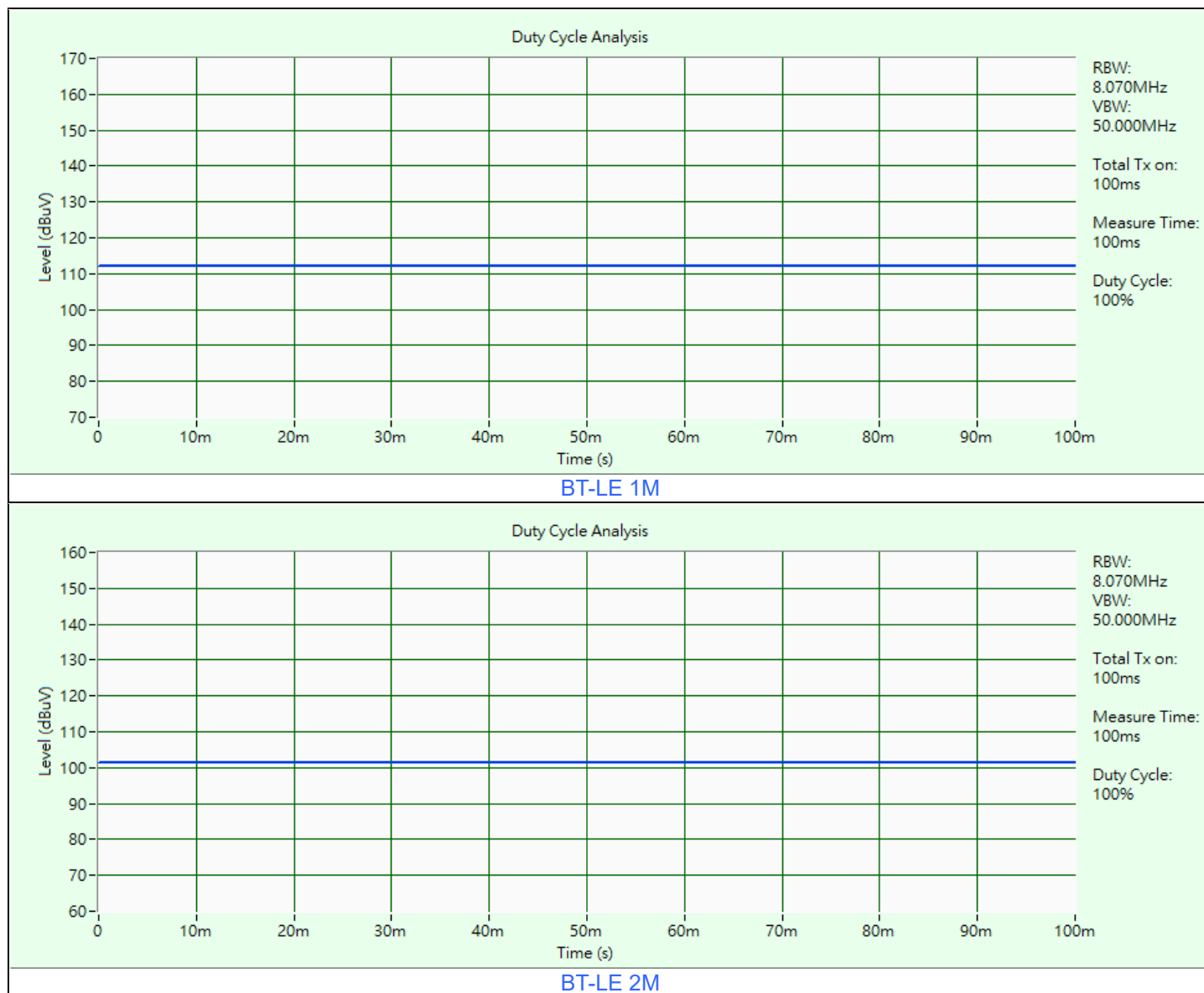
### 3.5 Duty Cycle of Test Signal

**BT-LE 1M:** Duty cycle = 100 ms / 100 ms x 100% = 100.0%

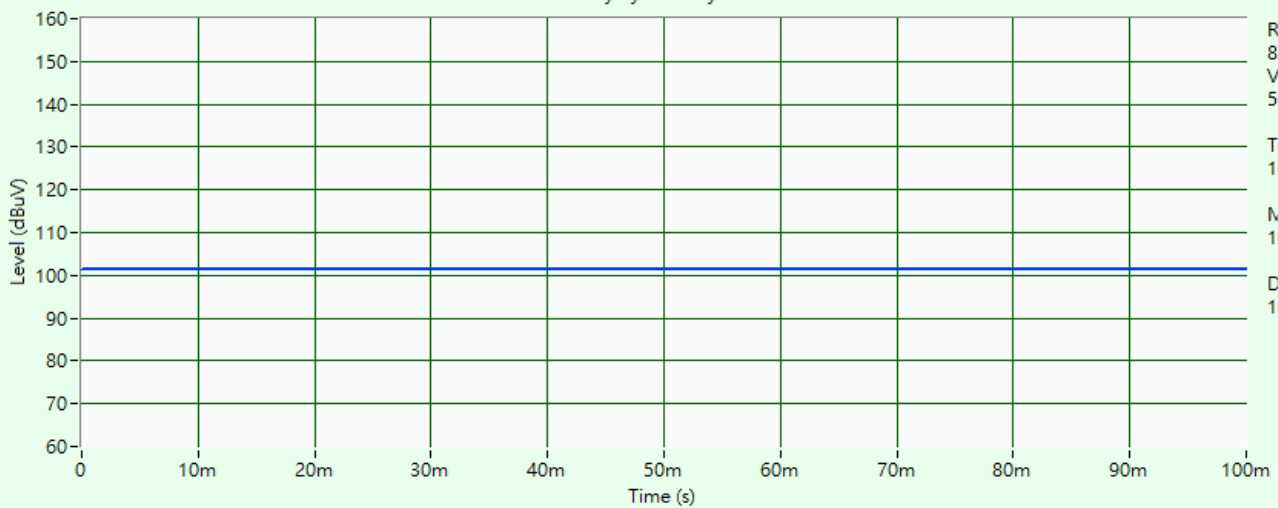
**BT-LE 2M:** Duty cycle = 100 ms / 100 ms x 100% = 100.0%

**BT-LE 125k:** Duty cycle = 100 ms / 100 ms x 100% = 100.0%

**BT-LE 500k:** Duty cycle = 100 ms / 100 ms x 100% = 100.0%

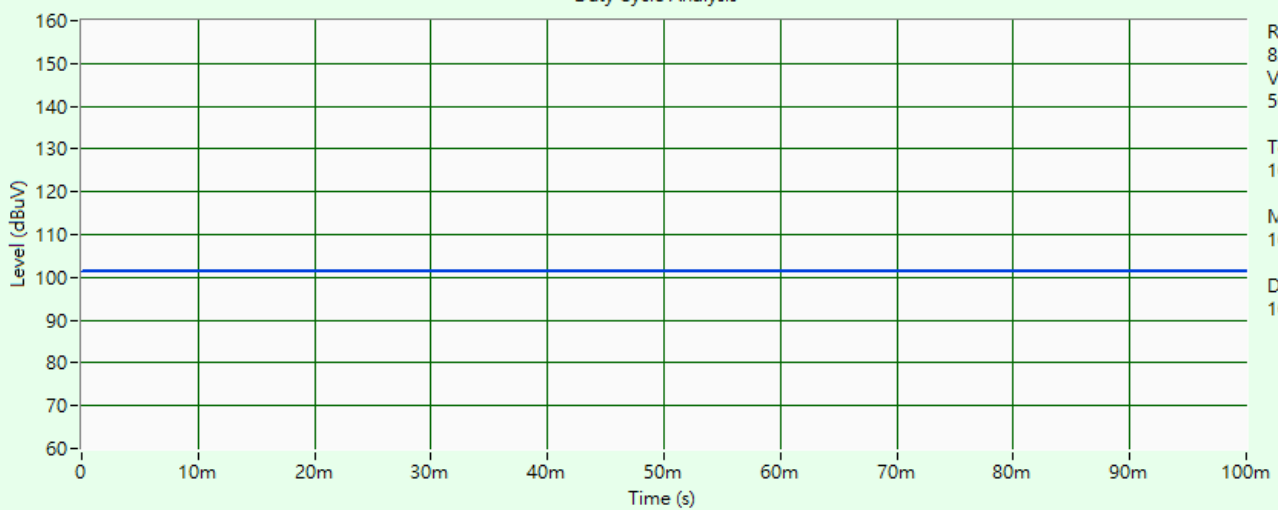


## Duty Cycle Analysis



BT-LE 125k

## Duty Cycle Analysis

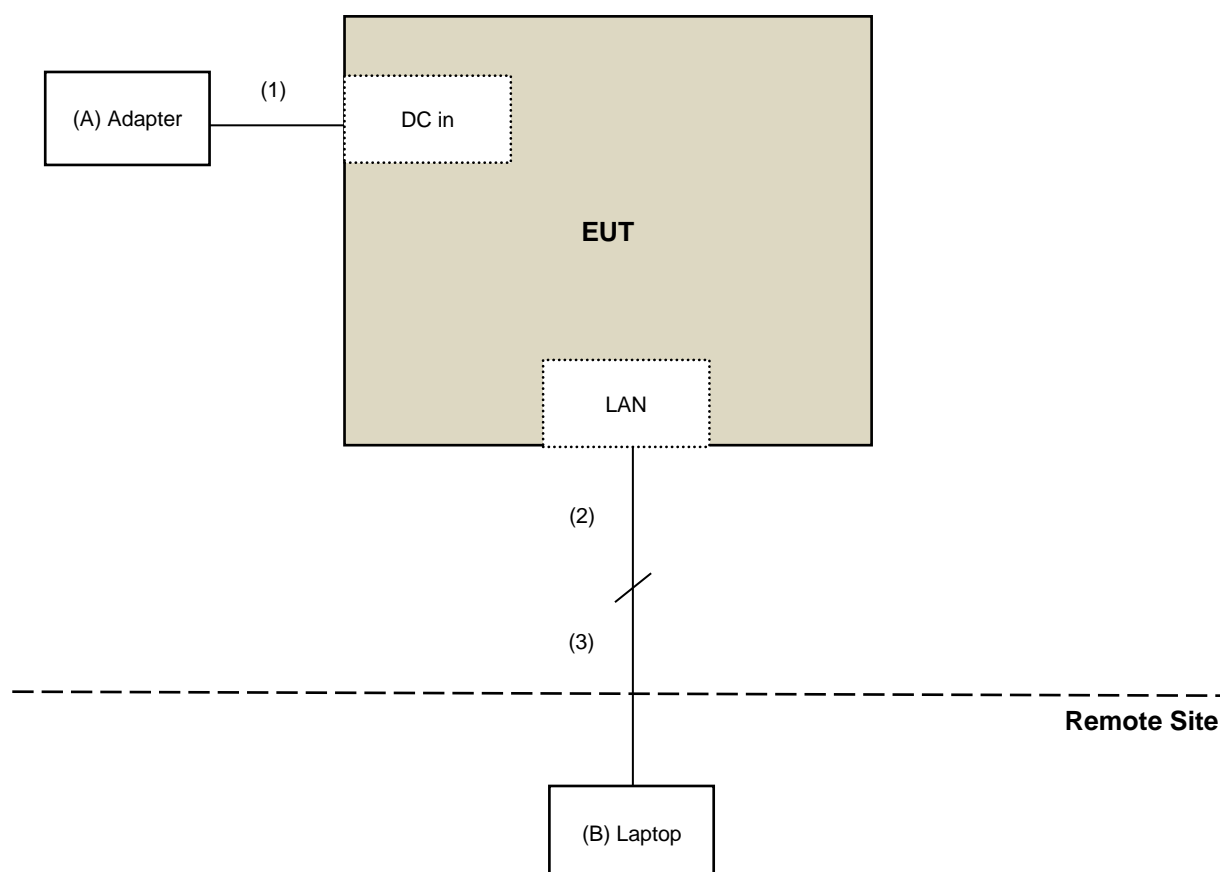


BT-LE 500k

### 3.6 Test Program Used and Operation Descriptions

Controlling software (teratorm v4.8) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

### 3.7 Connection Diagram of EUT and Peripheral Devices



### 3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	CUI INC	SWH15-5B-N	N/A	N/A	Supplied by applicant
B	Laptop	Lenovo	81A4	YD02TWDP	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC cable	1	1.8	N	0	Supplied by applicant
2	LAN cable	1	1	N	0	Supplied by applicant
3	LAN cable	1	10	N	0	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 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Power Meter Anritsu	ML2495A	0842014	2023/5/5	2024/5/4
Pulse Power Sensor Anritsu	MA2411B	0738404	2023/5/5	2024/5/4
USB Wideband Power Sensor Keysight	U2021XA	U2021XA_001	2023/6/6	2024/6/5

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2023/11/29

### 4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030A	MY54490260	2023/7/13	2024/7/12
Signal Analyzer R&S	FSV40	101042	2023/9/5	2024/9/4
		101544	2023/5/9	2024/5/8
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2023/11/29

### 4.3 6 dB Bandwidth

Refer to section 4.2 to get information of the instruments.

### 4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get information of the instruments.

#### 4.5 AC Power Conducted Emissions

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	2022/9/19	2023/9/18
		E1-011286	2022/9/19	2023/9/18
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 test was performed in Linkou Conduction 5.
2. Tested Date: 2023/9/13

#### 4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	137	2023/10/13	2024/10/12
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 test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2023/11/29



#### 4.7 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	2023/10/16	2024/10/15
		BBHA9170241	2023/10/16	2024/10/15
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 test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2023/11/8

## 5 Limits of Test Items

### 5.1 RF Output Power

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

### 5.2 Power Spectral Density

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz.

### 5.3 6 dB Bandwidth

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

### 5.4 Conducted Out of Band Emissions

Below 20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

### 5.5 AC Power Conducted Emissions

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.

### 5.6 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 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).

## 5.7 Unwanted Emissions above 1 GHz

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

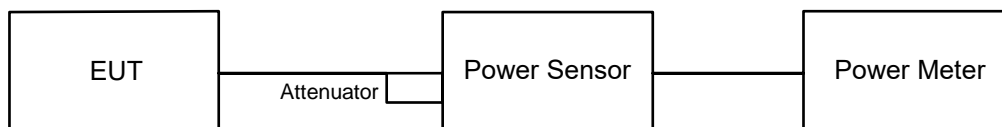
### Notes:

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.

## 6 Test Arrangements

### 6.1 RF Output Power

#### 6.1.1 Test Setup



#### 6.1.2 Test Procedure

##### Peak Power:

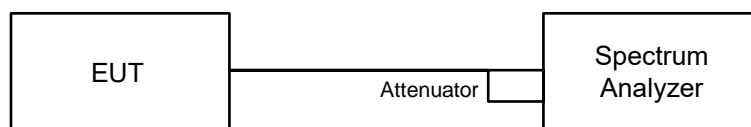
A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

##### Average Power:

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

### 6.2 Power Spectral Density

#### 6.2.1 Test Setup

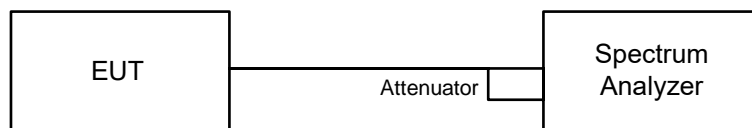


#### 6.2.2 Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: 3 kHz.
- Set the VBW  $\geq 3 \times$  RBW.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

### 6.3 6 dB Bandwidth

#### 6.3.1 Test Setup

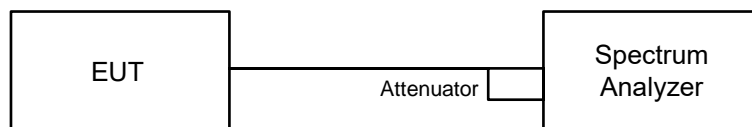


#### 6.3.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 6.4 Conducted Out of Band Emissions

#### 6.4.1 Test Setup



#### 6.4.2 Test Procedure

##### MEASUREMENT PROCEDURE REF

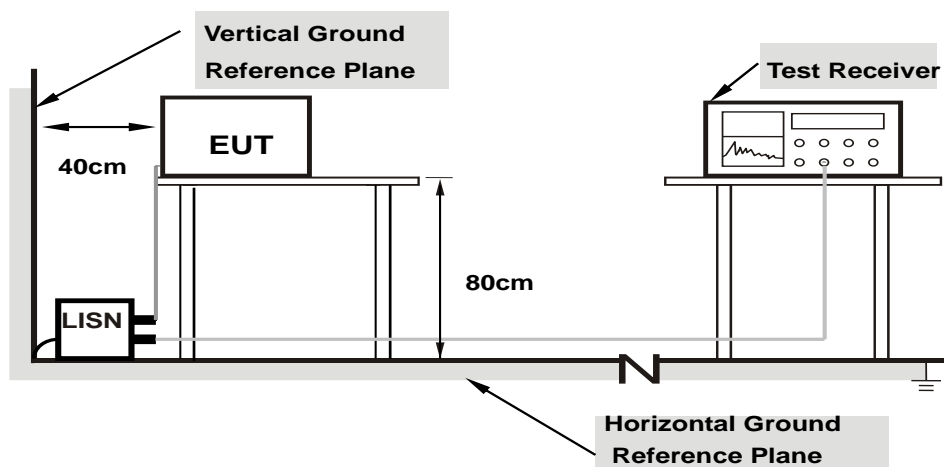
- Set the RBW = 100 kHz.
- Set the VBW  $\geq 300$  kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

##### MEASUREMENT PROCEDURE OOBE

- Set RBW = 100 kHz.
- Set VBW  $\geq 300$  kHz.
- Detector = peak.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

## 6.5 AC Power Conducted Emissions

### 6.5.1 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).

### 6.5.2 Test Procedure

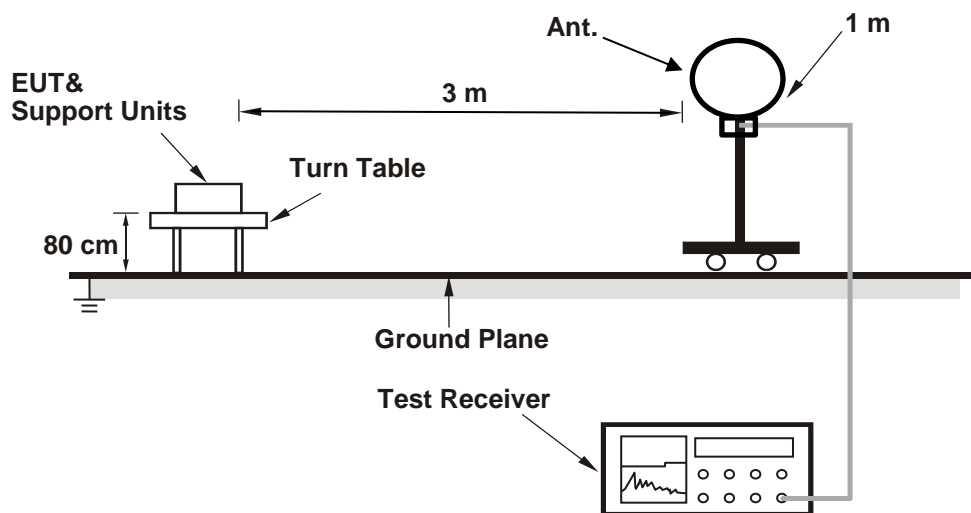
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

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

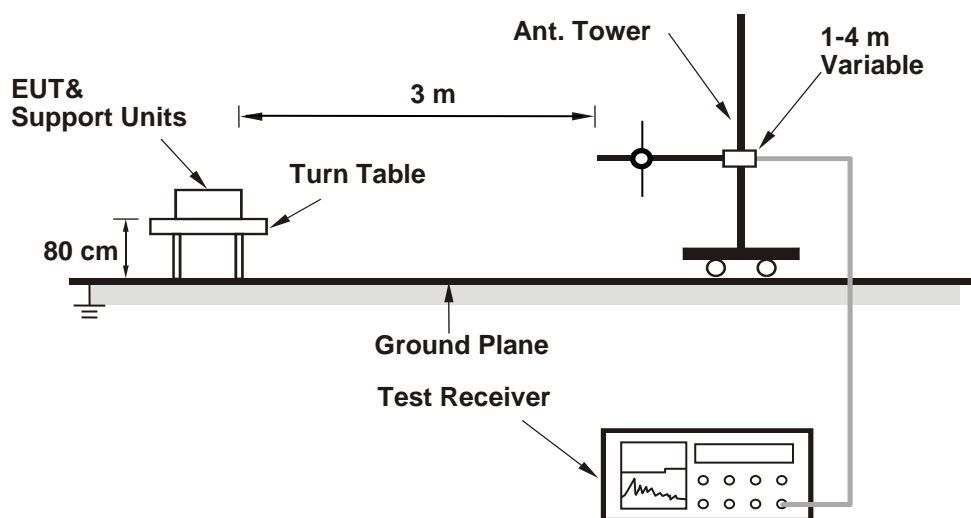
## 6.6 Unwanted Emissions below 1 GHz

### 6.6.1 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).

## 6.6.2 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.

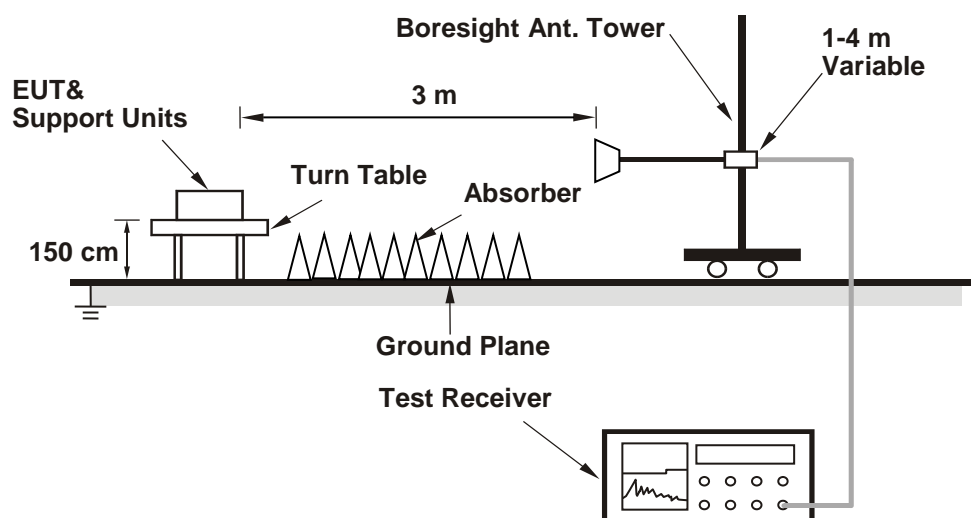
#### Notes:

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.



## 6.7 Unwanted Emissions above 1 GHz

### 6.7.1 Test Setup



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

### 6.7.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver/spectrum analyzer was set to peak and average detects 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.

#### Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10 Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

## 7 Test Results of Test Item

### 7.1 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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#### For Peak Power

##### BT-LE 1M

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	12.303	10.90	30	Pass
19	2440	11.376	10.56	30	Pass
39	2480	14.06	11.48	30	Pass

Note: The antenna gain is 4.06 dBi < 6 dBi, so the output power limit shall not be reduced.

##### BT-LE 2M

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	12.218	10.87	30	Pass
19	2440	11.246	10.51	30	Pass
39	2480	13.772	11.39	30	Pass

Note: The antenna gain is 4.06 dBi < 6 dBi, so the output power limit shall not be reduced.

##### BT-LE 125k

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	12.106	10.83	30	Pass
19	2440	11.194	10.49	30	Pass
39	2480	13.772	11.39	30	Pass

Note: The antenna gain is 4.06 dBi < 6 dBi, so the output power limit shall not be reduced.

##### BT-LE 500k

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	12.106	10.83	30	Pass
19	2440	11.169	10.48	30	Pass
39	2480	13.677	11.36	30	Pass

Note: The antenna gain is 4.06 dBi < 6 dBi, so the output power limit shall not be reduced.

## For Average Power

### BT-LE 1M

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	12.162	10.85
19	2440	11.22	10.50
39	2480	13.9	11.43

### BT-LE 2M

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	11.995	10.79
19	2440	11.066	10.44
39	2480	13.646	11.35

### BT-LE 125k

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	11.967	10.78
19	2440	11.066	10.44
39	2480	13.614	11.34

### BT-LE 500k

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	11.94	10.77
19	2440	11.015	10.42
39	2480	13.552	11.32

## 7.2 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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### BT-LE 1M

Channel	Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
0	2402	-3.1	8	Pass
19	2440	-3.3	8	Pass
39	2480	-1.36	8	Pass

Note: The antenna gain is 4.06 dBi < 6 dBi, so the power density limit shall not be reduced.

### BT-LE 2M

Channel	Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
0	2402	-4.68	8	Pass
19	2440	-5.24	8	Pass
39	2480	-3.71	8	Pass

Note: The antenna gain is 4.06 dBi < 6 dBi, so the power density limit shall not be reduced.

### BT-LE 125k

Channel	Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
0	2402	4.49	8	Pass
19	2440	4.38	8	Pass
39	2480	5.72	8	Pass

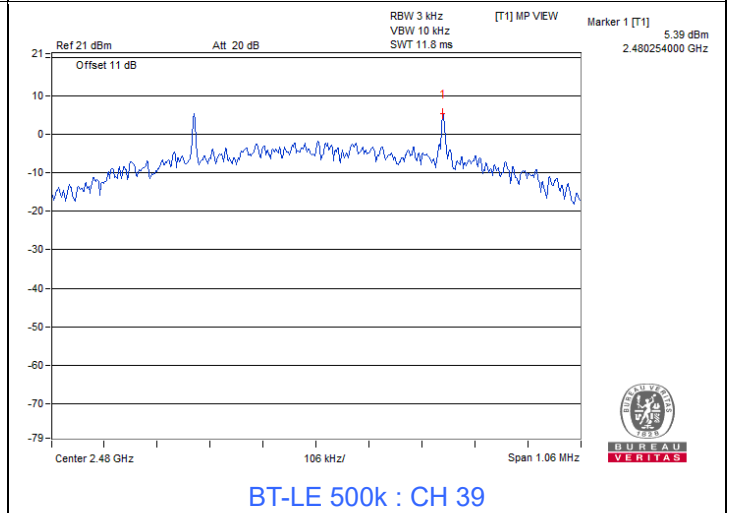
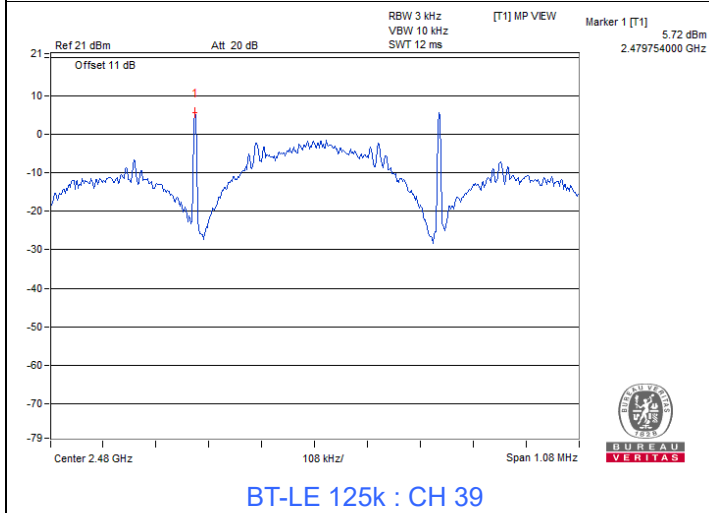
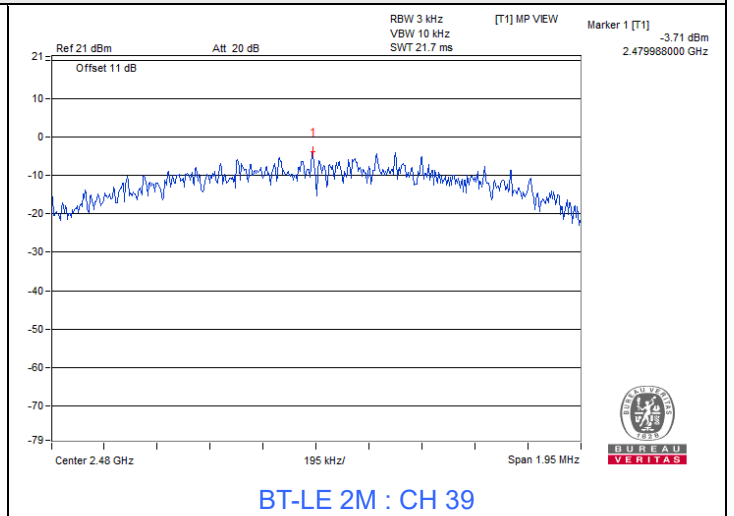
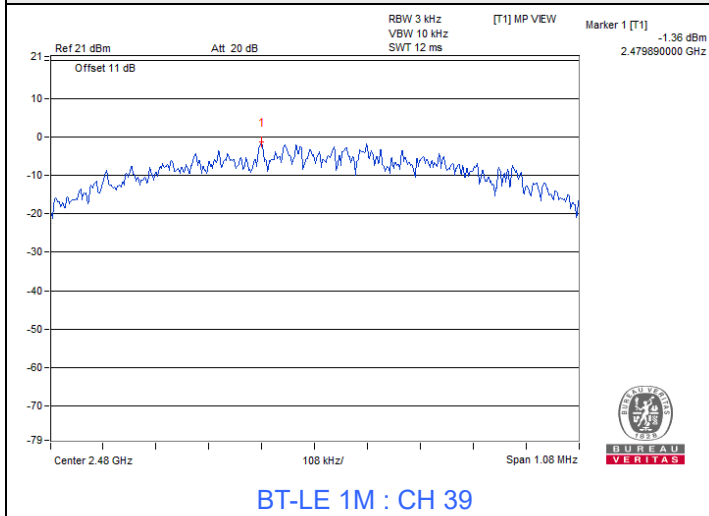
Note: The antenna gain is 4.06 dBi < 6 dBi, so the power density limit shall not be reduced.

### BT-LE 500k

Channel	Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
0	2402	4.24	8	Pass
19	2440	4.13	8	Pass
39	2480	5.39	8	Pass

Note: The antenna gain is 4.06 dBi < 6 dBi, so the power density limit shall not be reduced.

## Spectrum Plot of Maximum Value



### 7.3 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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#### BT-LE 1M

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.75	0.5	Pass
19	2440	0.73	0.5	Pass
39	2480	0.72	0.5	Pass

#### BT-LE 2M

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	1.22	0.5	Pass
19	2440	1.23	0.5	Pass
39	2480	1.3	0.5	Pass

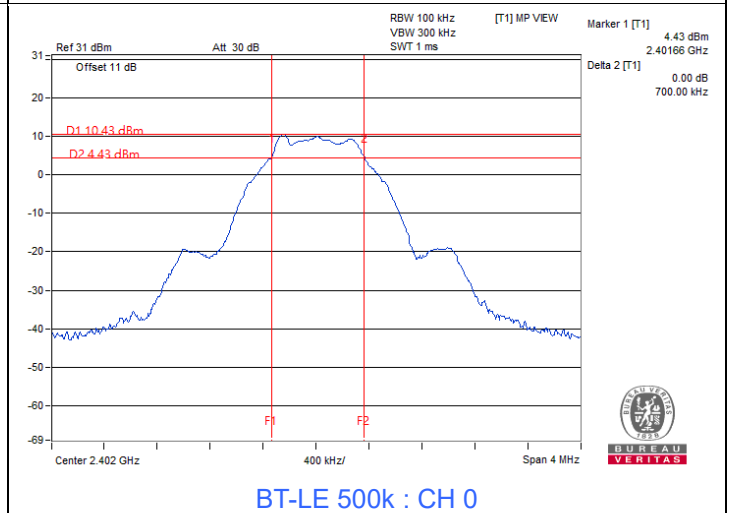
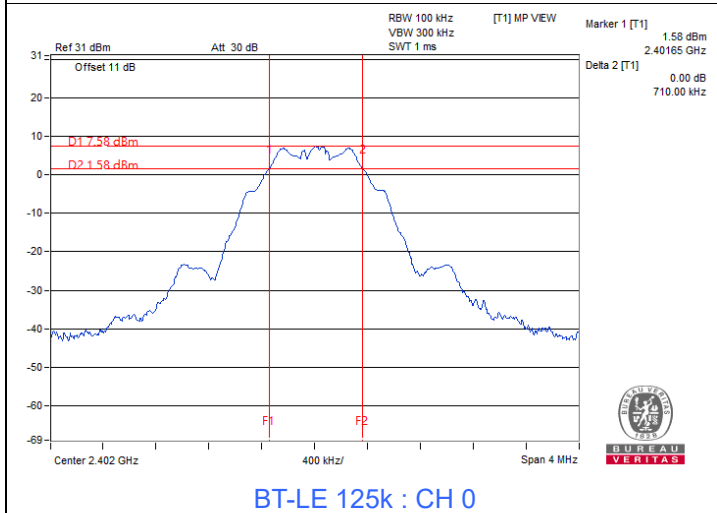
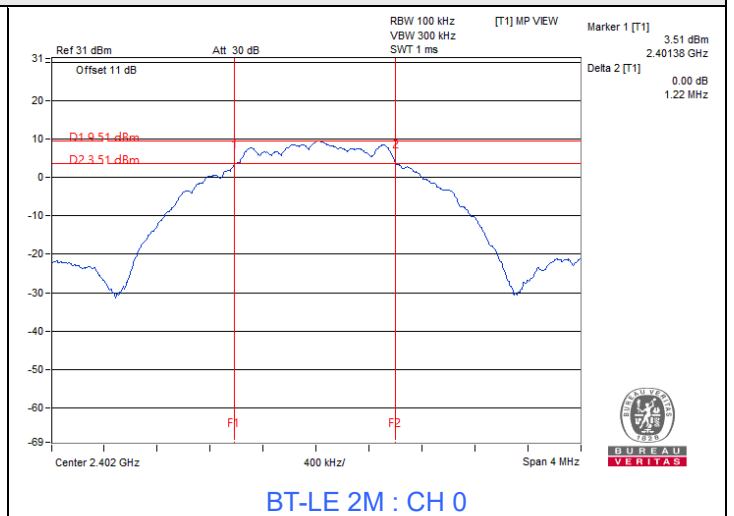
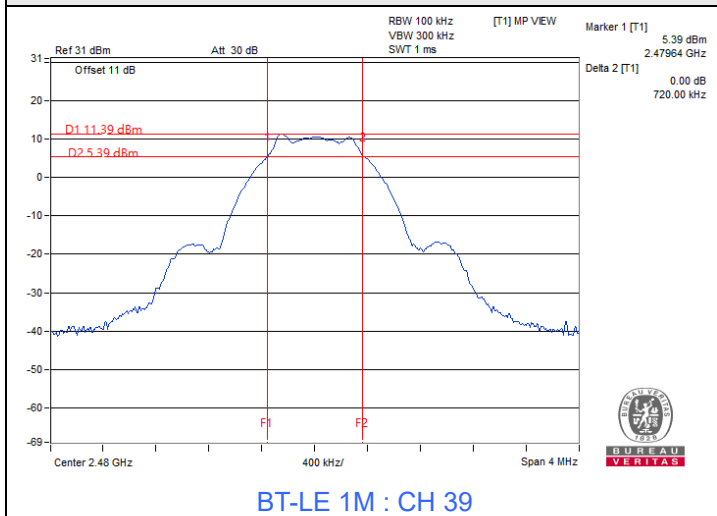
#### BT-LE 125k

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.71	0.5	Pass
19	2440	0.72	0.5	Pass
39	2480	0.72	0.5	Pass

#### BT-LE 500k

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.7	0.5	Pass
19	2440	0.71	0.5	Pass
39	2480	0.71	0.5	Pass

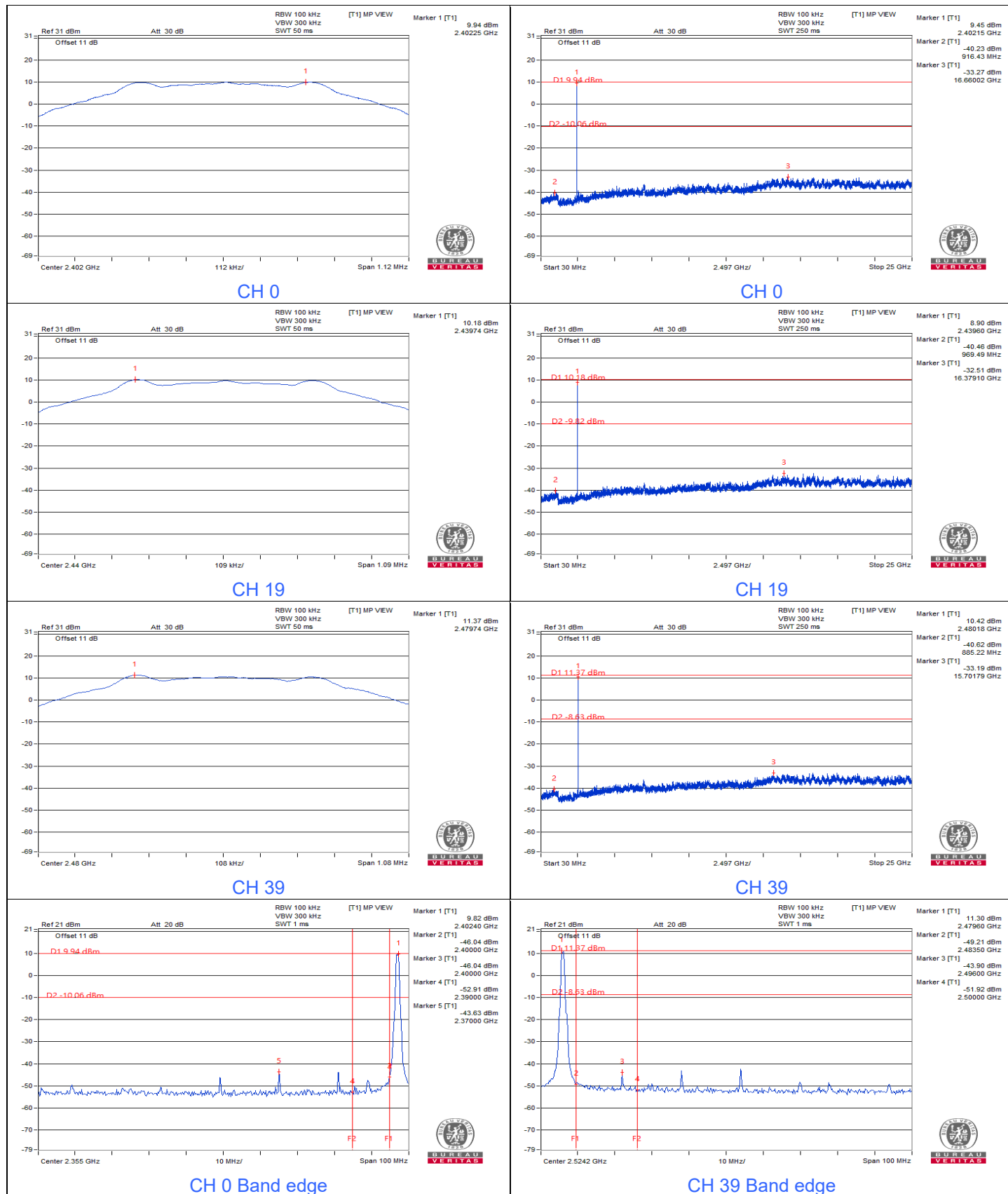
## Spectrum Plot of Minimum Value



## 7.4 Conducted Out of Band Emissions

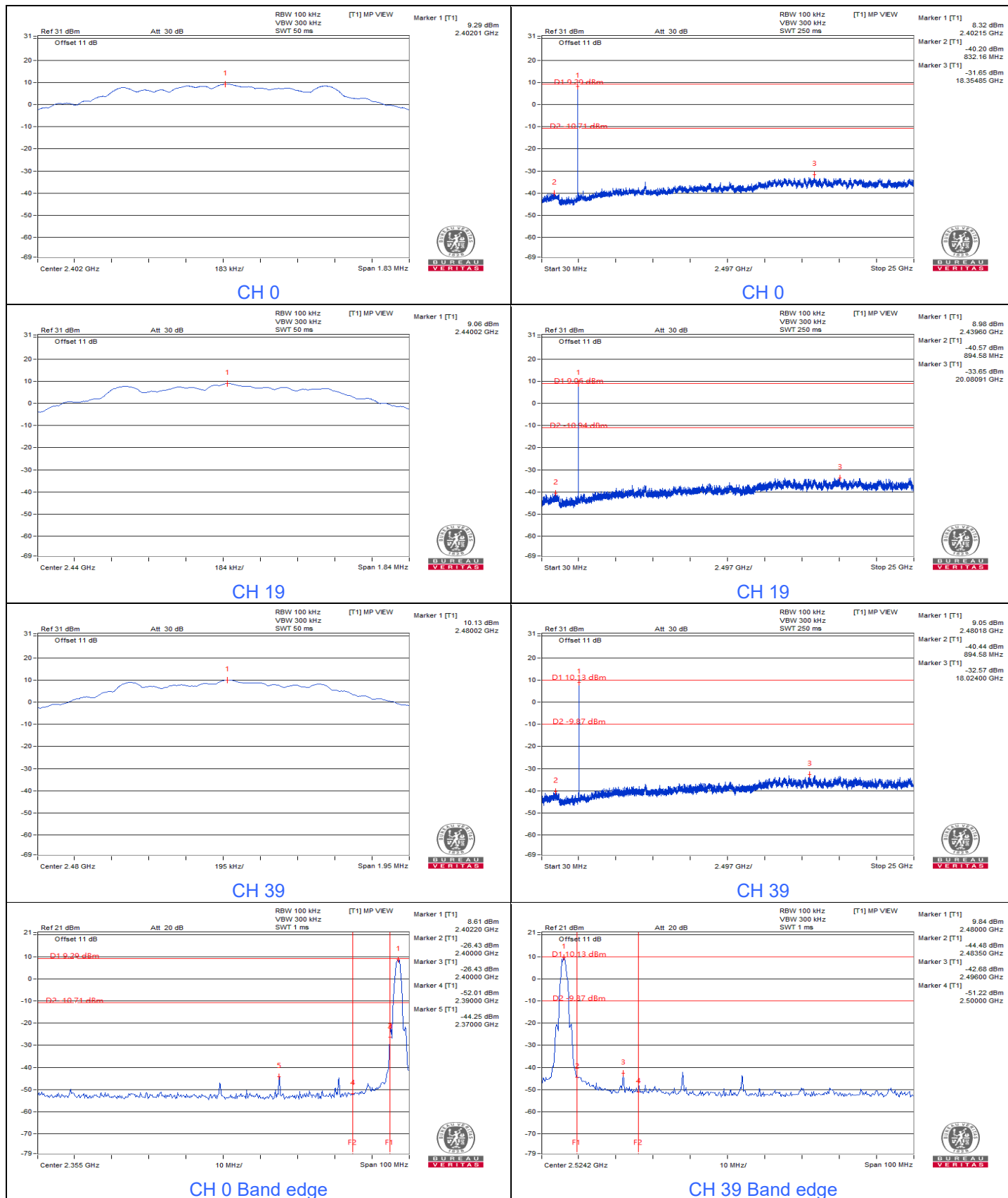
Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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### BT-LE 1M

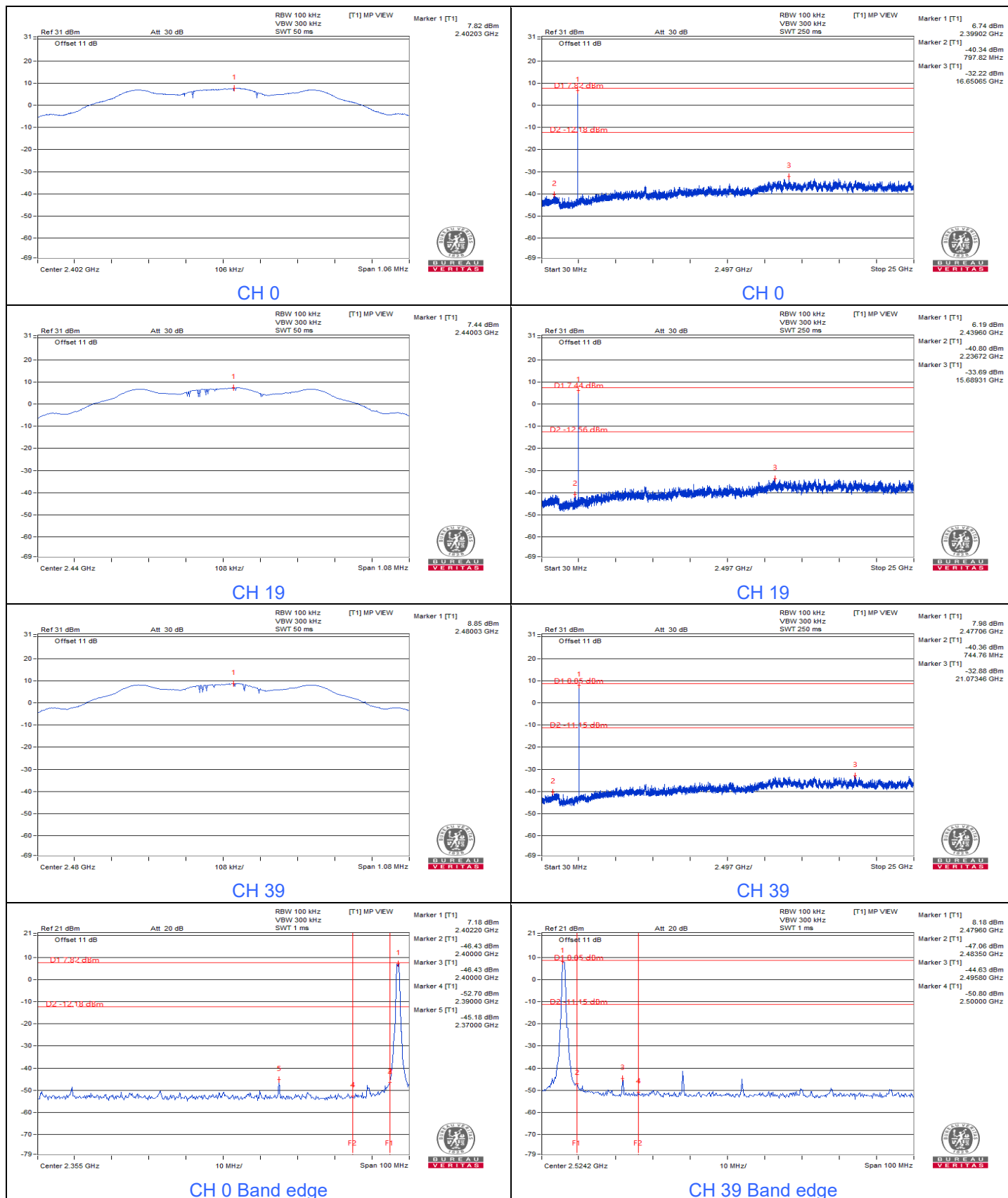




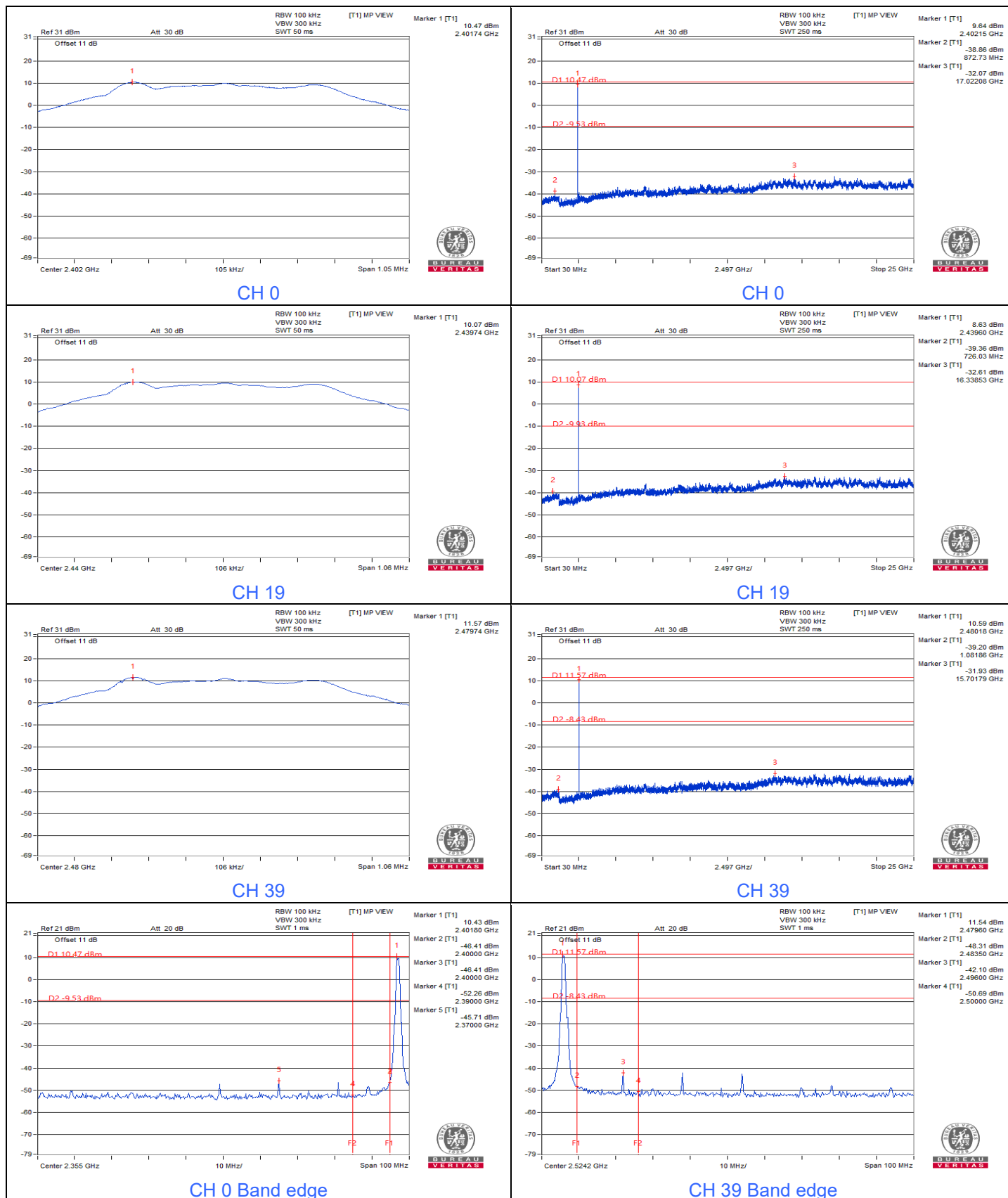
# BT-LE 2M



# BT-LE 125k



# BT-LE 500k



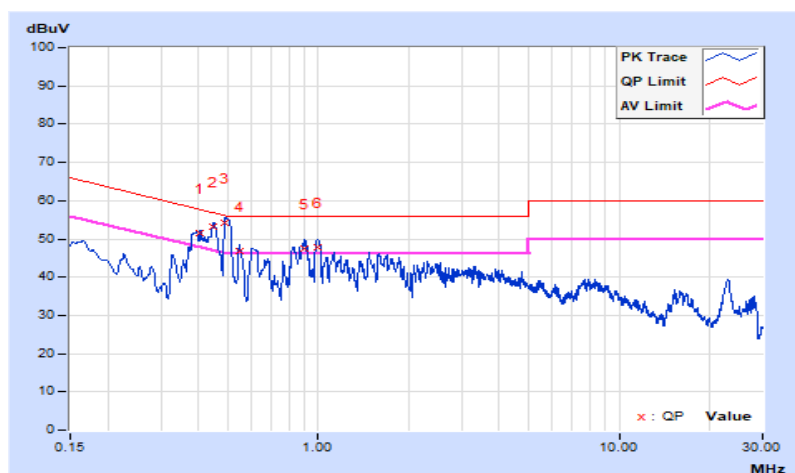
## 7.5 AC Power Conducted Emissions

RF Mode	BT-LE 1M	Channel	CH 39 : 2480 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	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	0.40650	10.23	41.23	28.85	51.46	39.08	57.72	47.72	-6.26	-8.64
2	0.44700	10.24	42.93	33.94	53.17	44.18	56.93	46.93	-3.76	-2.75
3	<b>0.49168</b>	<b>10.25</b>	<b>43.91</b>	<b>30.29</b>	<b>54.16</b>	<b>40.54</b>	<b>56.14</b>	<b>46.14</b>	<b>-1.98</b>	<b>-5.60</b>
4	0.54600	10.26	36.52	24.79	46.78	35.05	56.00	46.00	-9.22	-10.95
5	0.90375	10.35	37.29	24.14	47.64	34.49	56.00	46.00	-8.36	-11.51
6	0.99506	10.37	37.36	17.69	47.73	28.06	56.00	46.00	-8.27	-17.94

### Remarks:

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

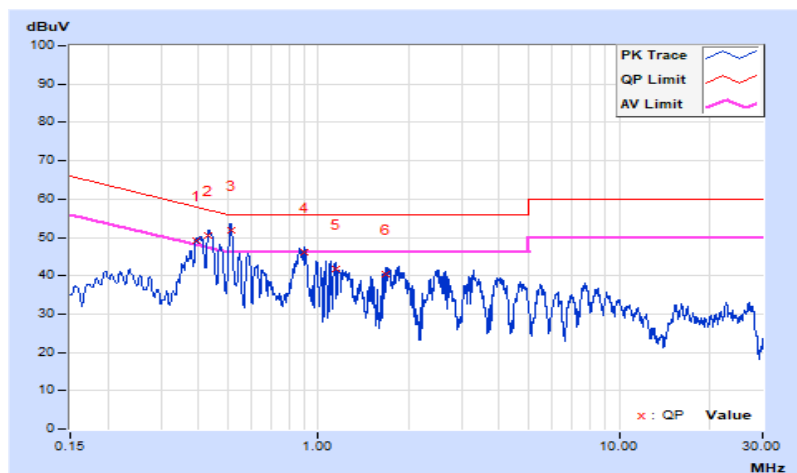


RF Mode	BT-LE 1M	Channel	CH 39 : 2480 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Jed Wu		

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	0.39284	10.17	38.90	22.15	49.07	32.32	58.00	48.00	-8.93	-15.68
2	0.43316	10.17	40.47	21.91	50.64	32.08	57.19	47.19	-6.55	-15.11
3	0.51155	10.18	41.71	28.60	51.89	38.78	56.00	46.00	-4.11	-7.22
4	0.90375	10.24	35.83	19.03	46.07	29.27	56.00	46.00	-9.93	-16.73
5	1.14000	10.25	31.56	15.46	41.81	25.71	56.00	46.00	-14.19	-20.29
6	1.68225	10.26	30.27	15.30	40.53	25.56	56.00	46.00	-15.47	-20.44

#### 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



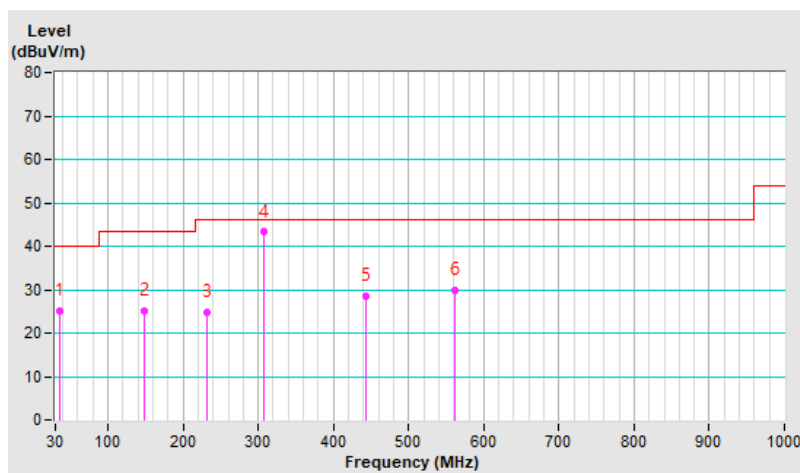
## 7.6 Unwanted Emissions below 1 GHz

RF Mode	BT-LE 1M	Channel	CH 39 : 2480 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Jed Wu		

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	35.00	25.1 QP	40.0	-14.9	1.00 H	283	35.5	-10.4
2	148.53	25.2 QP	43.5	-18.3	1.00 H	271	33.8	-8.6
3	232.15	24.8 QP	46.0	-21.2	1.00 H	195	35.1	-10.3
4	308.00	43.2 QP	46.0	-2.8	1.00 H	233	49.2	-6.0
5	443.85	28.6 QP	46.0	-17.4	1.00 H	360	31.6	-3.0
6	560.78	29.9 QP	46.0	-16.1	1.00 H	334	30.8	-0.9

### 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.

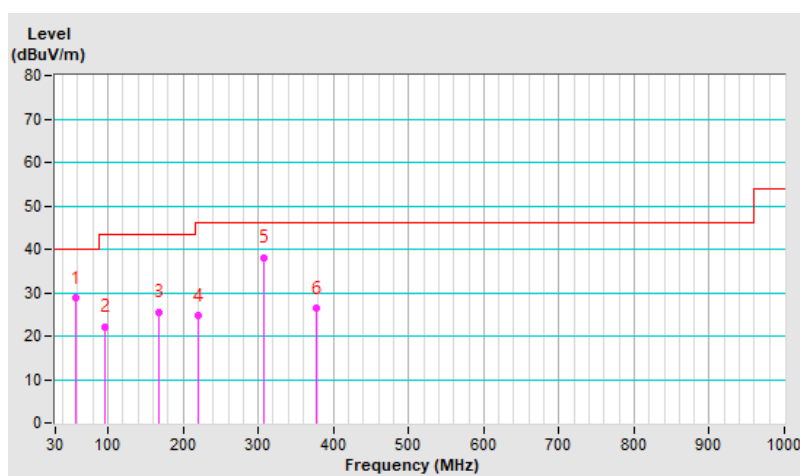


RF Mode	BT-LE 1M	Channel	CH 39 : 2480 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Jed Wu		

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	57.45	28.7 QP	40.0	-11.3	1.00 V	36	38.0	-9.3
2	95.40	22.1 QP	43.5	-21.4	1.54 V	293	36.2	-14.1
3	167.30	25.5 QP	43.5	-18.0	1.82 V	0	34.0	-8.5
4	220.00	24.6 QP	46.0	-21.4	1.73 V	271	35.2	-10.6
5	308.00	38.0 QP	46.0	-8.0	1.64 V	178	44.0	-6.0
6	377.30	26.3 QP	46.0	-19.7	1.20 V	228	30.9	-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.



## 7.7 Unwanted Emissions above 1 GHz

<b>RF Mode</b>	BT-LE 1M	<b>Channel</b>	CH 0 : 2402 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Tested By</b>	Jed Wu		

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	58.9 PK	74.0	-15.1	2.09 H	289	60.1	-1.2
2	2390.00	46.3 AV	54.0	-7.7	2.09 H	289	47.5	-1.2
3	*2402.00	107.9 PK			2.09 H	289	109.2	-1.3
4	*2402.00	107.3 AV			2.09 H	289	108.6	-1.3
5	4804.00	54.7 PK	74.0	-19.3	3.69 H	39	46.6	8.1
6	4804.00	48.0 AV	54.0	-6.0	3.69 H	39	39.9	8.1
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	2390.00	55.9 PK	74.0	-18.1	2.18 V	51	57.1	-1.2
2	2390.00	42.9 AV	54.0	-11.1	2.18 V	51	44.1	-1.2
3	*2402.00	102.9 PK			2.18 V	51	104.2	-1.3
4	*2402.00	102.1 AV			2.18 V	51	103.4	-1.3
5	4804.00	56.9 PK	74.0	-17.1	3.24 V	281	48.8	8.1
6	4804.00	51.0 AV	54.0	-3.0	3.24 V	281	42.9	8.1

### 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.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.



<b>RF Mode</b>	BT-LE 1M	<b>Channel</b>	CH 19 : 2440 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Tested By</b>	Jed Wu		

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	*2440.00	110.3 PK			1.16 H	293	111.3	-1.0
2	*2440.00	109.2 AV			1.16 H	293	110.2	-1.0
3	4880.00	56.7 PK	74.0	-17.3	2.76 H	35	48.7	8.0
4	4880.00	50.0 AV	54.0	-4.0	2.76 H	35	42.0	8.0
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	*2440.00	105.3 PK			1.25 V	47	106.3	-1.0
2	*2440.00	104.5 AV			1.25 V	47	105.5	-1.0
3	4880.00	58.9 PK	74.0	-15.1	2.31 V	277	50.9	8.0
4	4880.00	53.0 AV	54.0	-1.0	2.31 V	277	45.0	8.0

**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. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

<b>RF Mode</b>	BT-LE 1M	<b>Channel</b>	CH 39 : 2480 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Tested By</b>	Jed Wu		

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	*2480.00	110.3 PK			1.02 H	223	111.3	-1.0
2	*2480.00	109.5 AV			1.02 H	223	110.5	-1.0
3	2483.50	61.8 PK	74.0	-12.2	1.02 H	223	62.7	-0.9
4	2483.50	48.3 AV	54.0	-5.7	1.02 H	223	49.2	-0.9
5	4960.00	56.6 PK	74.0	-17.4	2.62 H	105	48.6	8.0
6	4960.00	49.9 AV	54.0	-4.1	2.62 H	105	41.9	8.0
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	*2480.00	105.3 PK			1.11 V	117	106.3	-1.0
2	*2480.00	104.6 AV			1.11 V	117	105.6	-1.0
3	2483.50	58.0 PK	74.0	-16.0	1.11 V	117	58.9	-0.9
4	2483.50	44.6 AV	54.0	-9.4	1.11 V	117	45.5	-0.9
5	4960.00	57.4 PK	74.0	-16.6	3.57 V	12	49.4	8.0
6	4960.00	52.0 AV	54.0	-2.0	3.57 V	12	44.0	8.0

**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. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

<b>RF Mode</b>	BT-LE 2M	<b>Channel</b>	CH 0 : 2402 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Tested By</b>	Jed Wu		

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	59.1 PK	74.0	-14.9	1.70 H	290	60.3	-1.2
2	2390.00	45.8 AV	54.0	-8.2	1.70 H	290	47.0	-1.2
3	*2402.00	108.5 PK			1.70 H	290	109.8	-1.3
4	*2402.00	106.7 AV			1.70 H	290	108.0	-1.3
5	4804.00	54.6 PK	74.0	-19.4	3.70 H	40	46.5	8.1
6	4804.00	46.0 AV	54.0	-8.0	3.70 H	40	37.9	8.1
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	2390.00	55.7 PK	74.0	-18.3	1.79 V	52	56.9	-1.2
2	2390.00	43.6 AV	54.0	-10.4	1.79 V	52	44.8	-1.2
3	*2402.00	103.5 PK			1.79 V	52	104.8	-1.3
4	*2402.00	101.8 AV			1.79 V	52	103.1	-1.3
5	4804.00	56.8 PK	74.0	-17.2	3.24 V	281	48.7	8.1
6	4804.00	49.0 AV	54.0	-5.0	3.24 V	281	40.9	8.1

**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.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

<b>RF Mode</b>	BT-LE 2M	<b>Channel</b>	CH 19 : 2440 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Tested By</b>	Jed Wu		

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	*2440.00	110.9 PK			1.64 H	69	111.9	-1.0
2	*2440.00	109.8 AV			1.64 H	69	110.8	-1.0
3	4880.00	57.4 PK	74.0	-16.6	2.95 H	174	49.4	8.0
4	4880.00	50.6 AV	54.0	-3.4	2.95 H	174	42.6	8.0
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	*2440.00	105.9 PK			1.06 V	89	106.9	-1.0
2	*2440.00	105.1 AV			1.06 V	89	106.1	-1.0
3	4880.00	58.5 PK	74.0	-15.5	2.05 V	231	50.5	8.0
4	4880.00	52.6 AV	54.0	-1.4	2.05 V	231	44.6	8.0

**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. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	BT-LE 2M	Channel	CH 39 : 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Jed Wu		

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	*2480.00	109.5 PK			1.45 H	302	110.5	-1.0
2	*2480.00	107.5 AV			1.45 H	302	108.5	-1.0
3	2483.50	63.5 PK	74.0	-10.5	1.45 H	302	64.4	-0.9
4	<b>2483.50</b>	<b>53.2 AV</b>	<b>54.0</b>	<b>-0.8</b>	<b>1.45 H</b>	<b>302</b>	<b>54.1</b>	<b>-0.9</b>
5	4960.00	52.1 PK	74.0	-21.9	2.06 H	211	44.1	8.0
6	4960.00	42.3 AV	54.0	-11.7	2.06 H	211	34.3	8.0
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	*2480.00	103.5 PK			3.09 V	59	104.5	-1.0
2	*2480.00	101.6 AV			3.09 V	59	102.6	-1.0
3	2483.50	59.0 PK	74.0	-15.0	3.09 V	59	59.9	-0.9
4	2483.50	48.5 AV	54.0	-5.5	3.09 V	59	49.4	-0.9
5	4960.00	51.6 PK	74.0	-22.4	3.33 V	111	43.6	8.0
6	4960.00	42.9 AV	54.0	-11.1	3.33 V	111	34.9	8.0

**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. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

<b>RF Mode</b>	BT-LE 125K	<b>Channel</b>	CH 0 : 2402 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Tested By</b>	Jed Wu		

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	58.4 PK	74.0	-15.6	1.35 H	291	59.6	-1.2
2	2390.00	45.8 AV	54.0	-8.2	1.35 H	291	47.0	-1.2
3	*2402.00	108.6 PK			1.35 H	291	109.9	-1.3
4	*2402.00	107.9 AV			1.35 H	291	109.2	-1.3
5	4804.00	54.7 PK	74.0	-19.3	3.35 H	39	46.6	8.1
6	4804.00	46.1 AV	54.0	-7.9	3.35 H	39	38.0	8.1
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	2390.00	55.3 PK	74.0	-18.7	1.44 V	49	56.5	-1.2
2	2390.00	43.6 AV	54.0	-10.4	1.44 V	49	44.8	-1.2
3	*2402.00	103.7 PK			1.44 V	49	105.0	-1.3
4	*2402.00	102.9 AV			1.44 V	49	104.2	-1.3
5	4804.00	57.0 PK	74.0	-17.0	2.50 V	283	48.9	8.1
6	4804.00	51.1 AV	54.0	-2.9	2.50 V	283	43.0	8.1

**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.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

<b>RF Mode</b>	BT-LE 125K	<b>Channel</b>	CH 19 : 2440 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Tested By</b>	Jed Wu		

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	*2440.00	111.0 PK			1.84 H	275	112.0	-1.0
2	*2440.00	109.9 AV			1.84 H	275	110.9	-1.0
3	4880.00	57.5 PK	74.0	-16.5	2.84 H	76	49.5	8.0
4	4880.00	50.7 AV	54.0	-3.3	2.84 H	76	42.7	8.0
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	*2440.00	106.0 PK			1.69 V	84	107.0	-1.0
2	*2440.00	105.2 AV			1.69 V	84	106.2	-1.0
3	4880.00	58.6 PK	74.0	-15.4	2.74 V	302	50.6	8.0
4	4880.00	52.7 AV	54.0	-1.3	2.74 V	302	44.7	8.0

**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. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

<b>RF Mode</b>	BT-LE 125K	<b>Channel</b>	CH 39 : 2480 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Tested By</b>	Jed Wu		

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	*2480.00	110.2 PK			1.17 H	223	111.2	-1.0
2	*2480.00	109.4 AV			1.17 H	223	110.4	-1.0
3	2483.50	62.2 PK	74.0	-11.8	1.17 H	223	63.1	-0.9
4	2483.50	48.4 AV	54.0	-5.6	1.17 H	223	49.3	-0.9
5	4960.00	56.6 PK	74.0	-17.4	2.89 H	184	48.6	8.0
6	4960.00	49.9 AV	54.0	-4.1	2.89 H	184	41.9	8.0
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	*2480.00	105.4 PK			1.26 V	117	106.4	-1.0
2	*2480.00	104.3 AV			1.26 V	117	105.3	-1.0
3	2483.50	56.6 PK	74.0	-17.4	1.26 V	117	57.5	-0.9
4	2483.50	44.5 AV	54.0	-9.5	1.26 V	117	45.4	-0.9
5	4960.00	58.3 PK	74.0	-15.7	3.35 V	105	50.3	8.0
<b>6</b>	<b>4960.00</b>	<b>53.2 AV</b>	<b>54.0</b>	<b>-0.8</b>	<b>3.35 V</b>	<b>105</b>	<b>45.2</b>	<b>8.0</b>

**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. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.



<b>RF Mode</b>	BT-LE 500K	<b>Channel</b>	CH 0 : 2402 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Tested By</b>	Jed Wu		

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	59.7 PK	74.0	-14.3	1.35 H	290	60.9	-1.2
2	2390.00	45.0 AV	54.0	-9.0	1.35 H	290	46.2	-1.2
3	*2402.00	109.1 PK			1.35 H	290	110.4	-1.3
4	*2402.00	108.4 AV			1.35 H	290	109.7	-1.3
5	4804.00	54.6 PK	74.0	-19.4	2.95 H	40	46.5	8.1
6	4804.00	47.9 AV	54.0	-6.1	2.95 H	40	39.8	8.1
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	2390.00	56.0 PK	74.0	-18.0	1.44 V	52	57.2	-1.2
2	2390.00	42.2 AV	54.0	-11.8	1.44 V	52	43.4	-1.2
3	*2402.00	104.2 PK			1.44 V	52	105.5	-1.3
4	*2402.00	103.6 AV			1.44 V	52	104.9	-1.3
5	4804.00	56.8 PK	74.0	-17.2	3.17 V	123	48.7	8.1
6	4804.00	50.9 AV	54.0	-3.1	3.17 V	123	42.8	8.1

**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.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

<b>RF Mode</b>	BT-LE 500K	<b>Channel</b>	CH 19 : 2440 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Tested By</b>	Jed Wu		

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	*2440.00	110.8 PK			1.63 H	231	111.8	-1.0
2	*2440.00	109.7 AV			1.63 H	231	110.7	-1.0
3	4880.00	57.3 PK	74.0	-16.7	2.65 H	55	49.3	8.0
4	4880.00	50.5 AV	54.0	-3.5	2.65 H	55	42.5	8.0
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	*2440.00	105.8 PK			1.33 V	21	106.8	-1.0
2	*2440.00	105.0 AV			1.33 V	21	106.0	-1.0
3	4880.00	58.4 PK	74.0	-15.6	2.49 V	273	50.4	8.0
4	4880.00	52.5 AV	54.0	-1.5	2.49 V	273	44.5	8.0

**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. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.

<b>RF Mode</b>	BT-LE 500K	<b>Channel</b>	CH 39 : 2480 MHz
<b>Frequency Range</b>	1 GHz ~ 25 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	23°C, 69% RH
<b>Tested By</b>	Jed Wu		

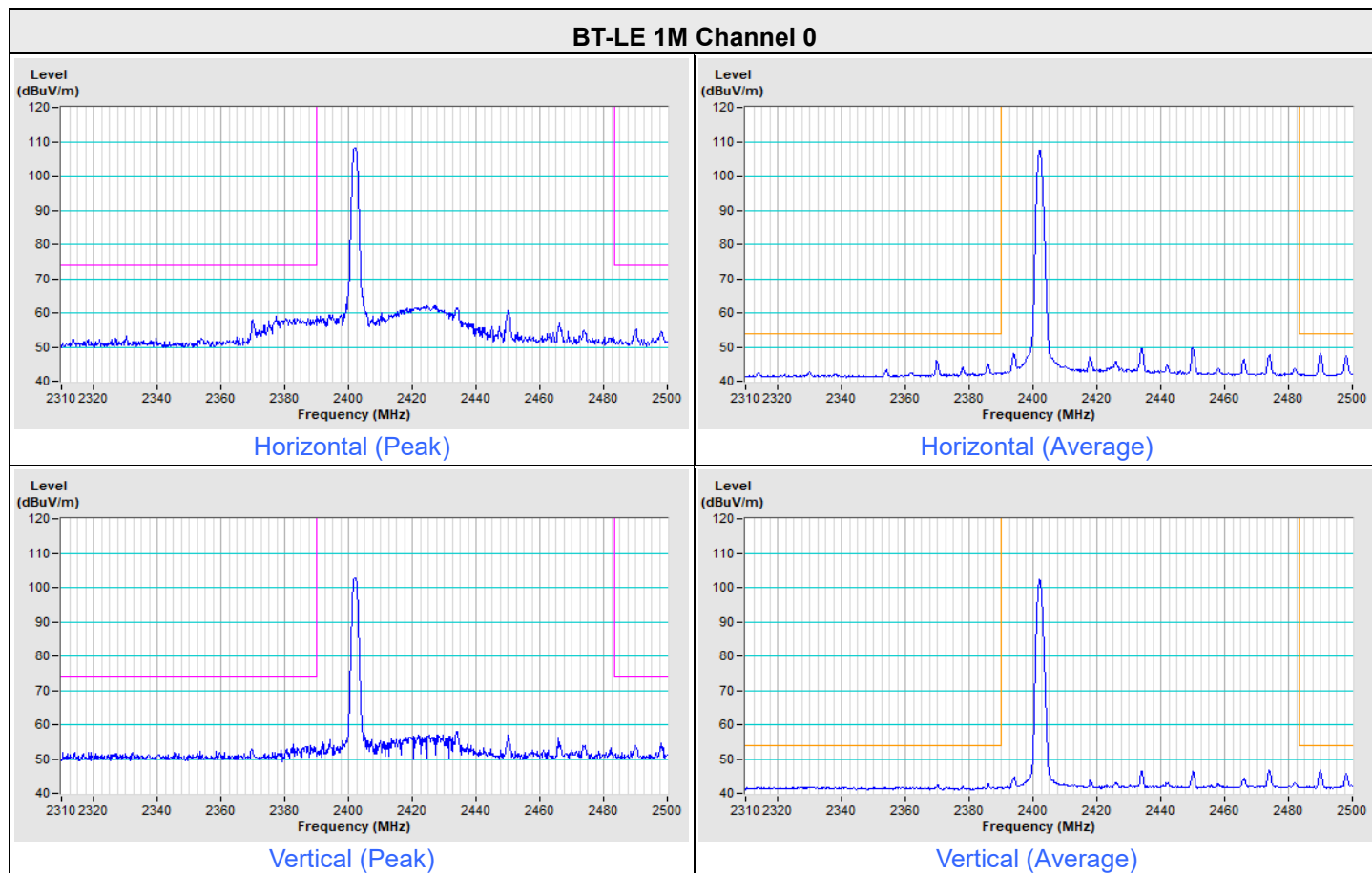
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	110.5 PK			1.17 H	221	111.5	-1.0
2	*2480.00	109.7 AV			1.17 H	221	110.7	-1.0
3	2483.50	62.2 PK	74.0	-11.8	1.17 H	221	63.1	-0.9
4	2483.50	48.7 AV	54.0	-5.3	1.17 H	221	49.6	-0.9
5	4960.00	56.3 PK	74.0	-17.7	2.94 H	88	48.3	8.0
6	4960.00	50.5 AV	54.0	-3.5	2.94 H	88	42.5	8.0
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	*2480.00	105.7 PK			1.26 V	119	106.7	-1.0
2	*2480.00	104.9 AV			1.26 V	119	105.9	-1.0
3	2483.50	57.9 PK	74.0	-16.1	1.26 V	119	58.8	-0.9
4	2483.50	44.7 AV	54.0	-9.3	1.26 V	119	45.6	-0.9
5	4960.00	58.2 PK	74.0	-15.8	3.35 V	103	50.2	8.0
6	4960.00	52.9 AV	54.0	-1.1	3.35 V	103	44.9	8.0

**Remarks:**

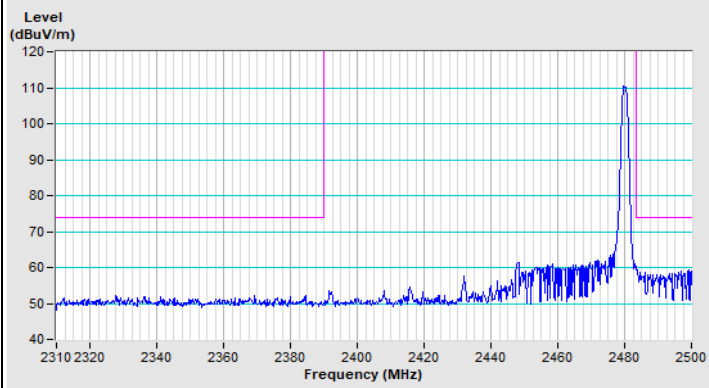
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.

## Plot of Band Edge

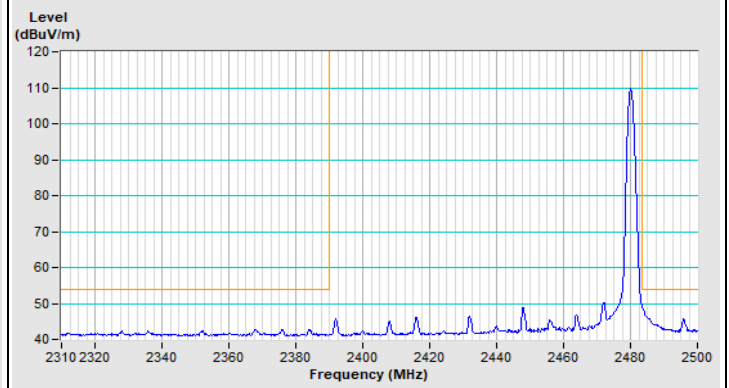
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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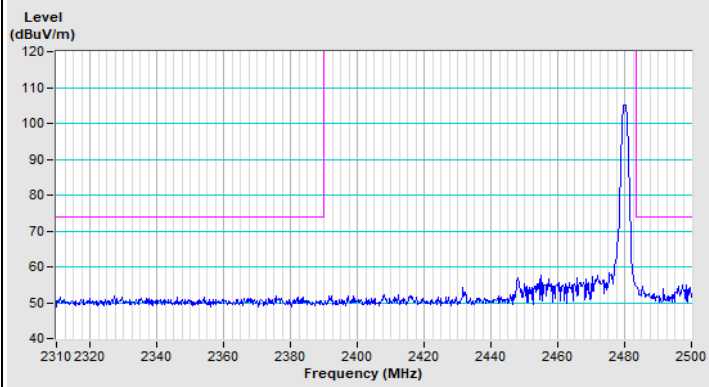
# BT-LE 1M Channel 39



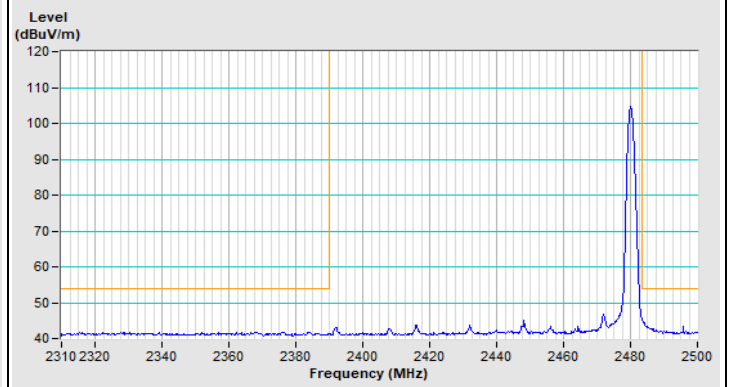
Horizontal (Peak)



Horizontal (Average)



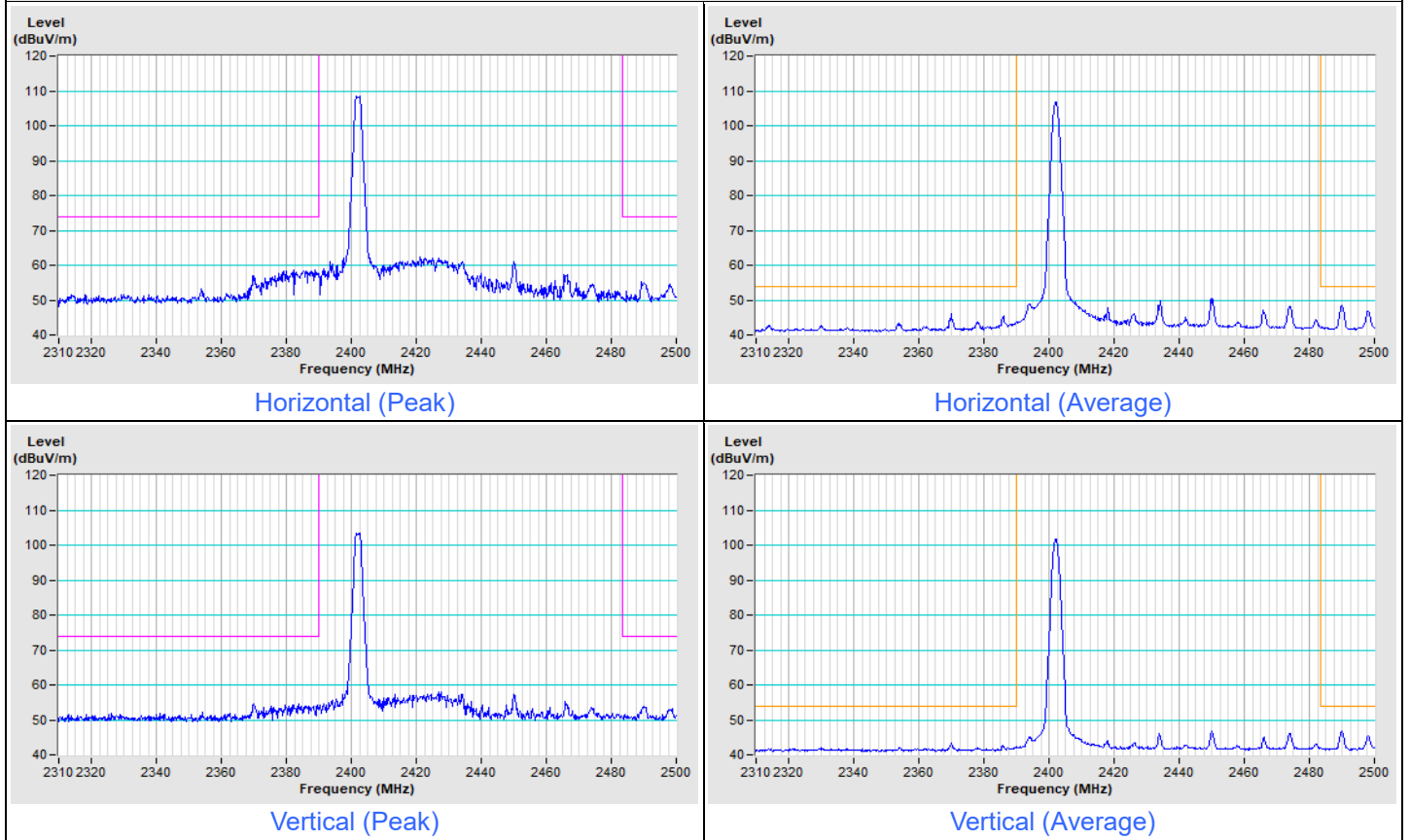
Vertical (Peak)



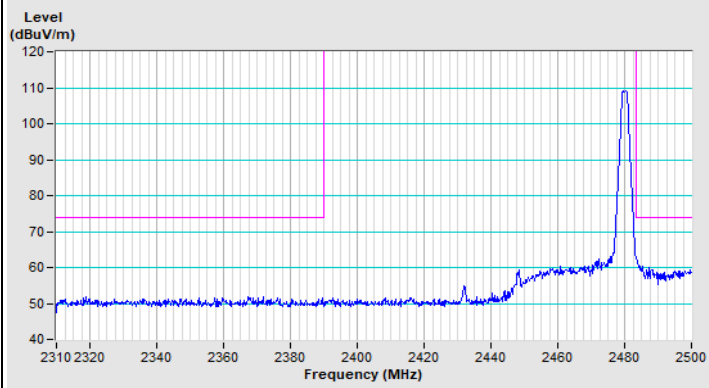
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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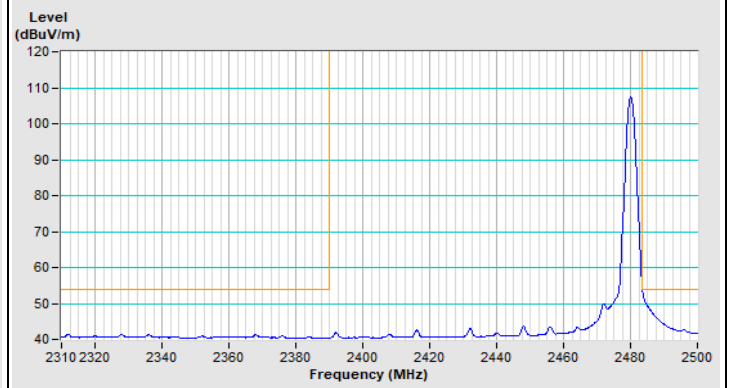
### BT-LE 2M Channel 0



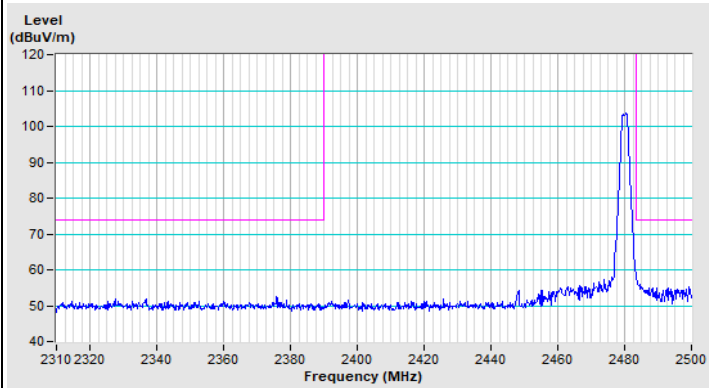
# BT-LE 2M Channel 39



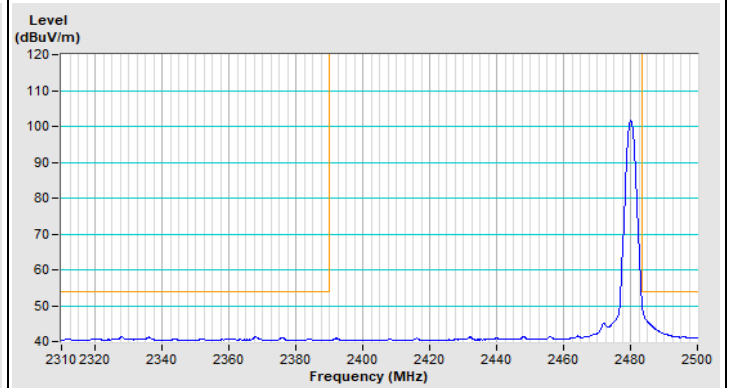
Horizontal (Peak)



Horizontal (Average)



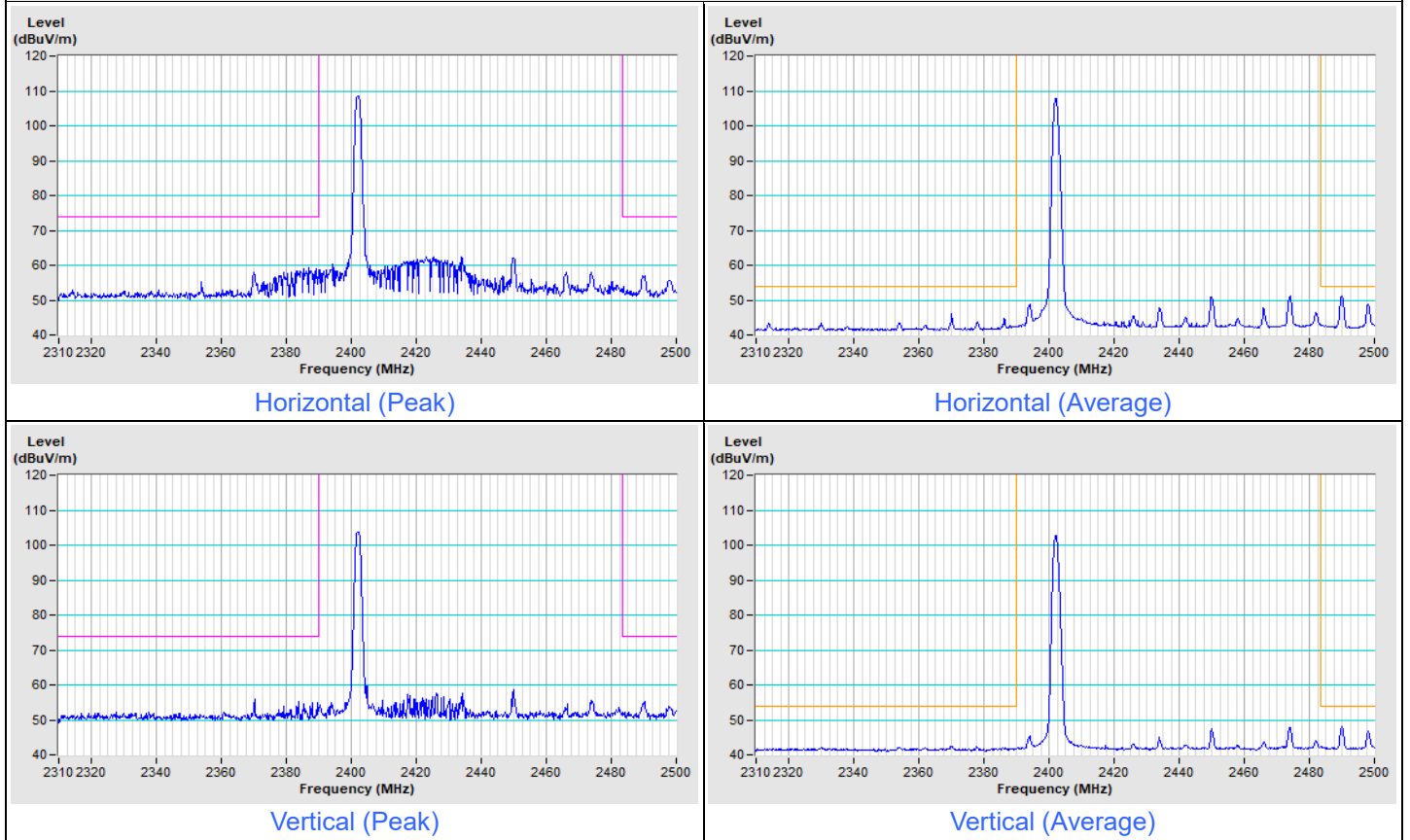
Vertical (Peak)



Vertical (Average)

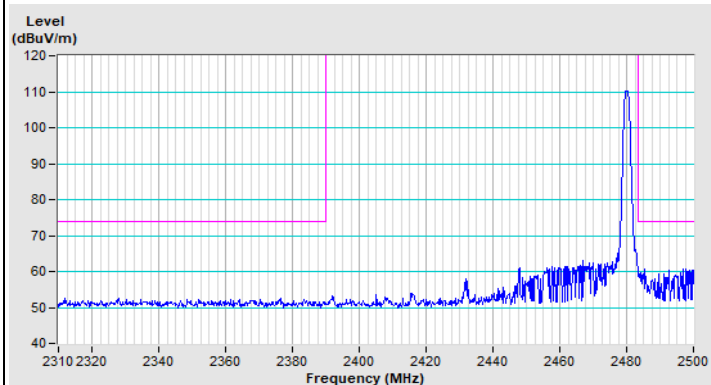
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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### BT-LE 125K Channel 0

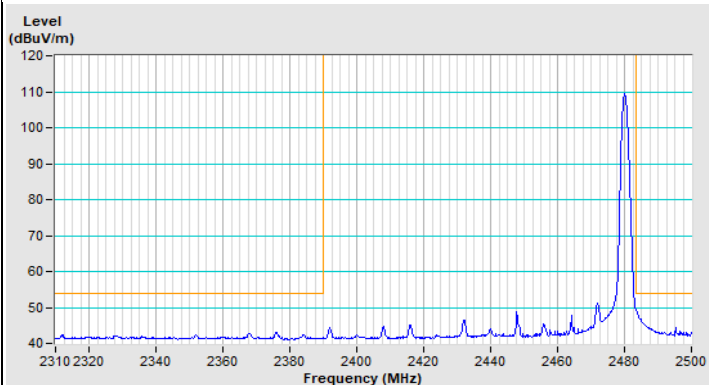




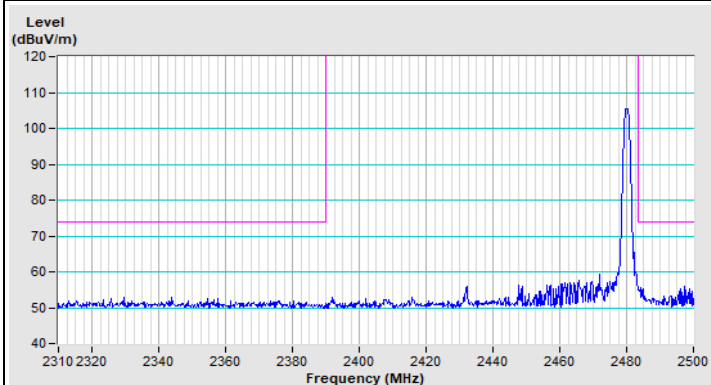
# BT-LE 125K Channel 39



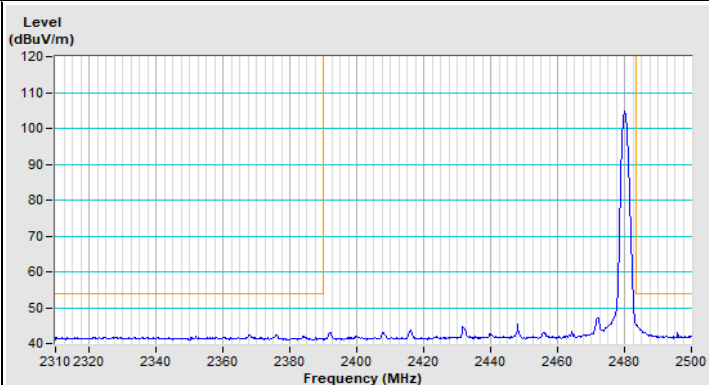
Horizontal (Peak)



Horizontal (Average)



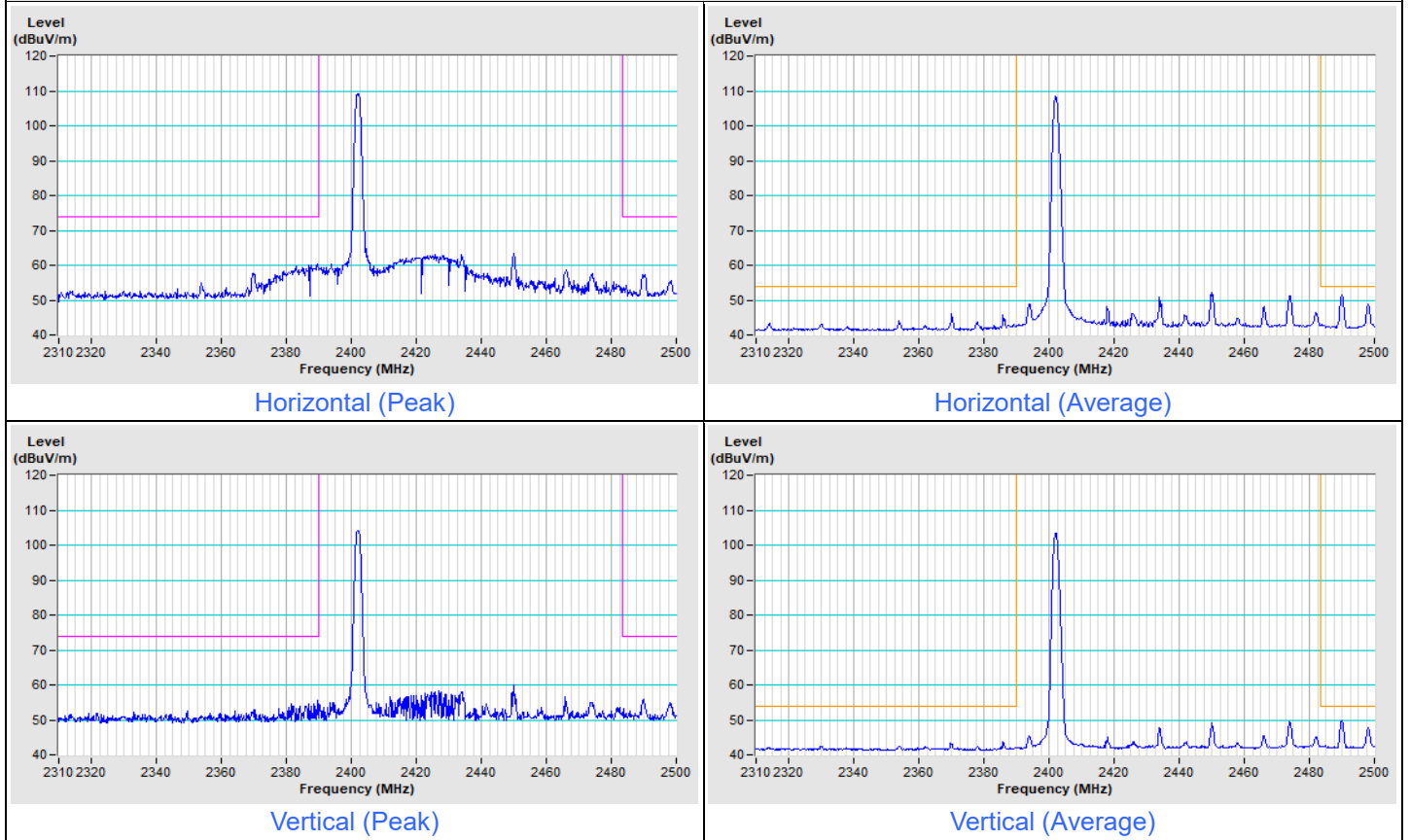
Vertical (Peak)



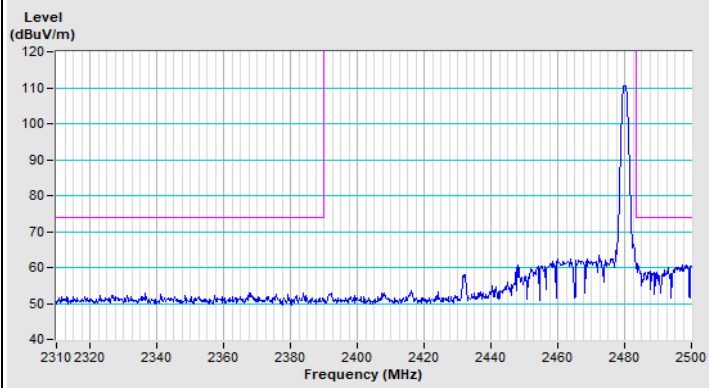
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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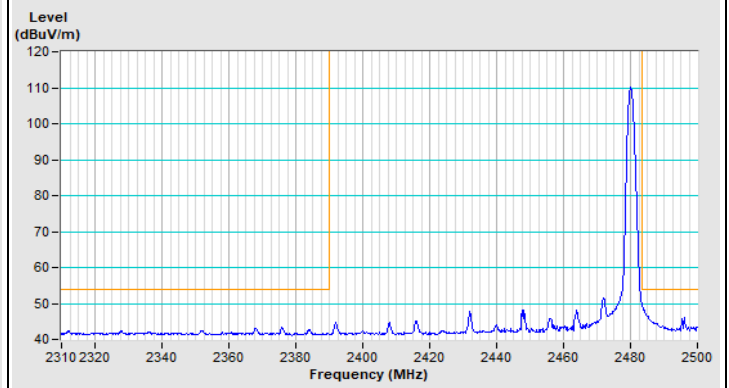
### BT-LE 500K Channel 0



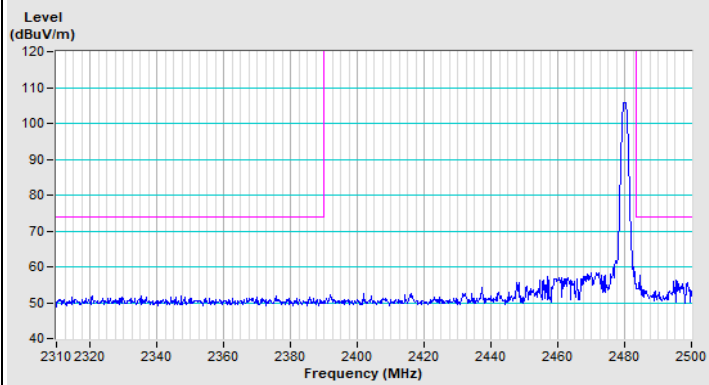
# BT-LE 500K Channel 39



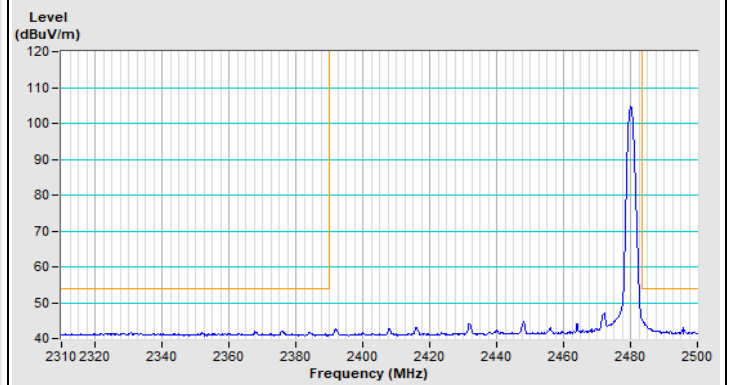
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

## 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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