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Issued date : 2025/4/8
FCC ID : 2BNIV-PND-1

RADIO TEST REPORT

Product : AUGi Pendant

Model Name : IN6P001

FCC ID : 2BNIV-PND-1

Test Regulation: FCC 47 CFR Part 15 Subpart C (Section 15.247)

Received Date : 2024/12/30

Test Date : 2025/1/3 ~ 2025/1/10

Issued Date : 2025/4/8

Applicant : All Inspire Health

19 Morris Avenue, Building 128, Brooklyn, NY 11205

Issued By: Underwriters Laboratories Taiwan Co., Ltd.

Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd.,

Zhudong Township, Hsinchu County, Taiwan





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REVISION HISTORY

Original Test Report No.: 4791618243B-US-R0-V0

Revision	Test report No.	Date	Page revised	Contents
Original	4791618243B-US-R0-V0	2025/4/8	-	Initial issue
•				

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1. Attestation of Test Results

APPLICANT: All Inspire Health

19 Morris Avenue, Building 128, Brooklyn, NY 11205

MANUFACTURER: InnoComm Mobile Technology Corporation

3F, No. 6, Hsin Ann Rd., Hsinchu Science Park, Hsinchu 300092,

Taiwan

EUT DESCRIPTION: AUGi Pendant

BRAND: All Inspire Health

MODEL: IN6P001

SAMPLE STAGE: Engineering Verification Test Sample

DATE of TESTED: $2025/1/3 \sim 2025/1/10$

APPLICABLE STANDARDS

STANDARD

Test Results

FCC 47 CFR PART 15 Subpart C (Section 15.247)

PASS

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Prepared By:

Approved and Authorized By:

Cindy Hsin Date: 2025/4/8

Eric Lee

Date: 2025/4/8

Project Handler

Senior Laboratory Engineer

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2. Summary of Test Results

Summary of Test Results					
FCC Clause	Result				
15.247(a)(2)	6dB Bandwidth	PASS			
15.247(b)	Conducted Output Power	PASS			
15.247(e)	Power Spectral Density	PASS			
15.247(d)	Antenna Port Emission	PASS			
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS			
15.207	AC Power Conducted Emission	See Note 1			
15.203	Antenna Requirement	PASS			

Note:

1. The EUT will not be directly or indirectly connected to the AC power network system in the actual application. Therefore, AC power conducted emission is not evaluated.

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3. Test Methodology and Reference Procedures

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2, KDB558074 D01 Meas Guidance v05r02, KDB414788 D01 Radiated Test Site v01r01, ANSI C63.10-2013.

4. Facilities and Accreditation

Test Location	Underwriters Laboratories Taiwan Co., Ltd.
Address	Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Accreditation Certificate	Underwriters Laboratories Taiwan Co., Ltd. is accredited by TAF, Laboratory Code 3398.

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5. Measurement Uncertainty

For statement of conformity, Simple acceptance (Section 3.1.4 of IEC Guide 115) was applied as decision rule for measurement in this test report.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor k=2.

Determining compliance based on the results of the compliance measurement, not considering measurement instrumentation uncertainty.

Measurement	Frequency	Uncertainty
Conducted disturbance at mains terminals ports	150kHz ~ 30MHz	3.1 dB
RF Conducted	9 kHz - 40GHz	2.3 dB
Radiated disturbance below 30MHz	9 kHz - 30 MHz	3.2 dB
Radiated disturbance below 1 GHz	30MHz ~ 1GHz	6.1 dB
Radiated disturbance above 1 GHz	1GHz ~ 40GHz	5.1 dB

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6. Equipment under Test

6.1. Description of EUT

Product	AUGi Pendant
Brand Name	All Inspire Health
Model Name	IN6P001
Normal Voltage	3Vdc from Battery

Operating Frequency	2402MHz ~ 2480MHz
Modulation	GFSK
Transfer Rate	Up to 2 Mbps
Maximum Output Power	7.32 dBm
Comple ID	Conducted Test:7980208
Sample ID	Radiated Test:7980209

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual, the laboratory shall not be held responsible.

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6.2. Channel List

40 channels are provided for BT-LE mode:

TO CHAINICIS	40 charmers are provided for B1-EE mode.						
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

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6.3. Test Condition

Test Item	Test Site No.	Environmental	Input Power	Test Date	Tested by
Antenna Port Conducted Measurement	SR4	21°C/ 63%RH	3Vdc	2025/1/10	Ethan Hsu
Radiated Spurious Emission	966-2	22~26°C/ 62~68%RH	3Vdc	2025/1/3~ 2025/1/4	Ethan Hsu

Sample Calculation:

Antenna Port Conducted Measurement:

- Where relevant, the follow sample calculation is provided:

Result Value (dBm) = Reading Value (dBm) + Attenuator Factor (dB) + Cable Loss (dB).

Example: Result Value (10dBm) = Reading Value (-2dBm) +Attenuator Factor (10dB) + Cable Loss(2dB).

Radiated Spurious Emission:

- Where relevant, the follow sample calculation is provided:

 $Result\ Value\ (dBuV/m) = Reading\ Value\ (dBuV) + Correction\ Factor\ (dB/m).$

Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Factor (dB).

Example: Result Value (34.5dBuV/m) = Reading Value (40.1dBuV) + Antenna Factor (18.7dB/m) + Cable Loss (4.2dB) - Preamp Factor (28.5dB).

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^{*}Test plot only shown the "Result Value".



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6.4. Description of Available Antennas

Ant. No.	Transmitter Circuit	Frequency Range	Brand Name	Model Name	Maximum Gain (dBi)	Ant. Type	Connector Type
BT	Chain0	2402MHz ~ 2480MHz	Innocomm	TAG	2.01	IFA	None

Note: The above antenna information was provided from customer and for more detailed features description, please refer the manufacturer's specification or user's manual, the laboratory shall not be held responsible.

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6.5. Test Mode Applicability and Tested Channel Detail

Test Item	Modulation Type	Available Channel	Test Channel	Data Rate
Radiated Emissions	CECK	0 to 39	0,19,39	1 Mbps
Radiated Emissions	GFSK	0 10 39	1,19,38	2 Mbps
Radiated Emissions (Below 1GHz)	GFSK	0 to 39	0	1 Mbps
AC Power Line Conducted Emission	GFSK	0 to 39	0	1 Mbps
Antenna Port	GFSK	0 + 20	0,19,39	1 Mbps
Conducted Measurement	GFSK	0 to 39	1,19,38	2 Mbps

- The fundamental of the EUT was investigated in three orthogonal axes X-Y/Y-Z/X-Z, it was determined that Y-Z plane was worst-case. Therefore, all final radiated testing was performed with the EUT in Y-Z plane.
- In the transmit mode, GFSK 1 Mbps channel 0 has the highest RF output power. Therefore, all final tests for the spurious emission (below 1GHz) were performed using this worst-case mode.
- For Antenna Port Conducted Measurement, this item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

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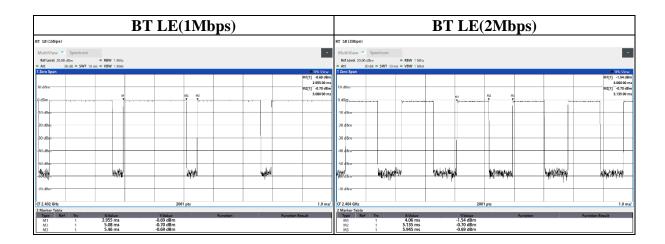
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6.6. Duty cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle	Duty Factor (dB)	VBW Set (above 1GHz)
BT LE(1Mbps)	2.125	2.505	0.8483	0.71	510Hz
BT LE(2Mbps)	1.075	1.885	0.5703	2.44	1kHz



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7. Test Equipment

	Test Equipment List								
Equipment	Equipment Manufacturer		Model No. Serial No.		Expired date				
	Rac	diated Spurious I	Emission						
Spectrum Analyzer	Keysight	N9010A	MY56070827	2024/3/29	2025/3/28				
EMI Test Receiver	Rohde & Schwarz	ESR7	101754	2024/12/24	2025/12/23				
Loop Antenna	ETS lindgren	6502	00213440	2024/12/11	2025/12/10				
Trilog-Broadband Antenna with 5dB Attenuator	Schwarzbeck & EMCI	VULB 9168 & N- 6-05	774 & AT- N0538	2024/12/30	2025/12/29				
Horn Antenna (1-18 GHz)	Schwarzbeck	BBHA 9120 D	01690	2024/11/27	2025/11/26				
Horn Antenna (18-40 GHz)	Schwarzbeck	BBHA 9170	781	2024/12/18	2025/12/17				
Preamplifier (30-1000 MHz)	EMCI	EMC330E	980405	2024/5/28	2025/5/27				
Preamplifier (1-18 GHz)	EMCI	EMC051835BE	980406	2024/1/23	2025/1/22				
Preamplifier (18-40GHz)	EMCI	EMC184040SEE	980426	2024/4/16	2025/4/15				
Cables (9k-18 GHz)	Hanyitek	K1K50-UP0264- K1K50-2500	170214-4 & 170425-2	2024/11/22	2025/11/21				
Cables (18-40GHz)	Hanyitek	K1K50-UP0264- K1K50-2500	170214-1 & 170214-2	2024/11/22	2025/11/21				
		Port Conducted	Measurement						
Signal Analyzer	Rohde & Schwarz	FSVA3044	101281	2024/3/18	2025/3/17				
Signal Analyzer	Rohde & Schwarz	FSV40	101490	2024/7/1	2025/6/30				
Attenuator	EMCI	EMC- 40ATK2W10	17002	2024/11/13	2025/11/12				
USB Power Sensor	Anritsu	MA24408A	12031	2024/7/13	2025/7/12				
Temperature &Humidity Test Chamber	GIANT FORCE	GTH-150- 40-CP- AR	MAA1701- 010	2024/3/6	2025/3/5				

UL Software						
Description	Name	Version				
Radiated measurement	e3	6.191211 (V6)				
Conducted measurement	RF-Conducted-FCC 15247	ver 1.0				

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8. Description of Test Setup

Tx Mode

Support Equipment

ID	Equipment	Brand Name	Model Name	S/N	Remark
A	Laptop	DELL	Latitude E5470	5M2MWF2	Provide by Lab
В	Test tool	N/A	N/A	N/A	Supplied by Client
С	Battery	Panasonic	CR2450	N/A	Supplied by Client

I/O Cables

ID	Equipment	Brand Name	Model Name	Length (m)	Remark
1	Test tool cable	N/A	N/A	0.5	Supplied by Client
2	USB Cable	Soundcors	N/A	0.3	Supplied by Client

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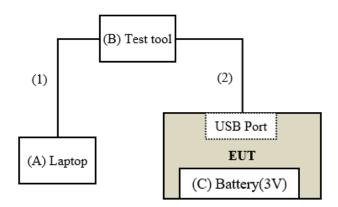
Test Setup

The EUT was worked in engineering mode to transmit signal.

Controlled using a bespoke application (Bluetooth NCP Commander Version 4.3.4) on a test Notebook. The application was used to enable a continuous transmission mode and to select the test channels, data rates, modulation schemes and power setting as required.

Setup Diagram for Test

Tx Mode



Under Table

Under Table

Remote Site

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9. Test Results

9.1. 6dB Bandwidth

Requirements

The minimum 6 dB bandwidth shall be at least 500 kHz.

Test procedure

- a. Set resolution bandwidth (RBW) = 100kHz.
- b. Set the video bandwidth (VBW) $\geq 3 \times RBW$, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. 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.

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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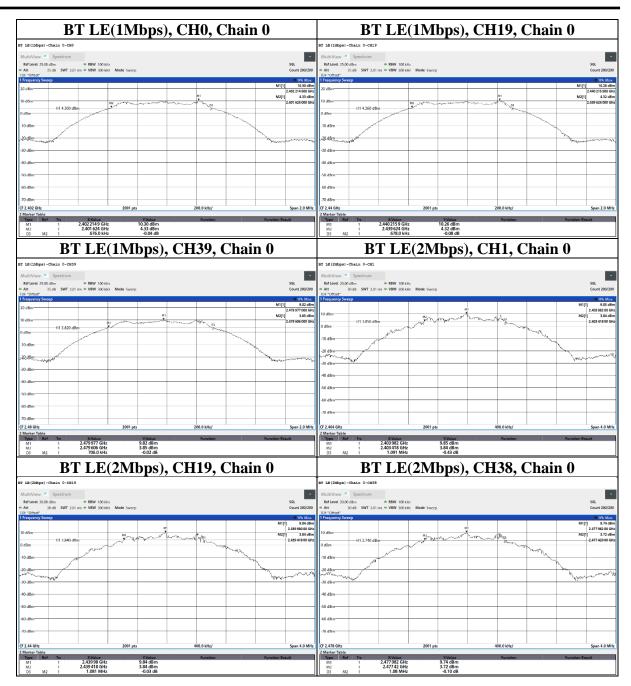
Test Data

Mode	СН	Freq (MHz)	6dB BW (MHz)	Limit (MHz)	Result
BT LE(1Mbps)	0	2402	0.676	0.5	PASS
BT LE(1Mbps)	19	2440	0.678	0.5	PASS
BT LE(1Mbps)	39	2480	0.706	0.5	PASS
BT LE(2Mbps)	1	2404	1.091	0.5	PASS
BT LE(2Mbps)	19	2440	1.081	0.5	PASS
BT LE(2Mbps)	38	2478	1.080	0.5	PASS

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9.2. Conducted Output Power

Requirements

For systems using digital modulation in the 2400-2483.5 MHz bands: 1 Watt.

Note:

1. P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi, B is the 26 dB emission bandwidth in megahertz

2. If EUT with Multiple Transmitter Output:

a. Directional Gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{Gn/20})^2 / \text{Nant}] dBi$.

Nant: Number of Transmit Antennas

G1, G2,..., Gn: Gain of Individual Antennas

Example: two antenna and gain 5 dBi / 3dBi, so if it was used for TxBF power measurement Directional Gain = $10 \log[(105/20 + 103/20) 2 / 2]$ dBi = 7.07 dBi

b. Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices, CDD Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;
 Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;
 Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less for 20-MHz channel widths with NANT ≥ 5.

Array $Gain = 5 \log(NAN1/NSS) dB$ or 3 dB, whichever is less for 20-MHz channel widths with NAN1 ≥ 3 Example: Maximum antenna gain = 5 dBi and NANT ≤ 4 , so if it was used for CDD power measurement Directional Gain = 5 dBi + Array Gain = 5 dBi + 0 dB = 5 dBi

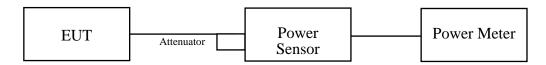
c. For power measurement of KDB 662911 is used with multiple transmitter output. Total conducted power is the sum of the conducted power levels measured at the various output ports.

Test Procedure

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.

- a. Set the RBW \geq DTS bandwidth.
- b. Set $VBW \ge 3 \times RBW$.
- c. Set span $\geq 3 \times RBW$.
- d. Sweep time = auto couple.
- e. Detector = peak.
- f. Trace mode = max hold.
- g. Allow trace to fully stabilize.
- h. Use peak marker function to determine the peak amplitude level.

Test Setup



The loss between RF output port of the EUT and the input port of the Power Meter has been taken into consideration.

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Test Data

Mode	СН	Freq. (MHz)	Peak Power (dBm) Chain 0	Total Power (mW)	Total Power (dBm)	AVG Power (dBm) Chain 0	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Result
DT	0	2402	7.32	5.395	7.32	7.26	5.321	7.26	30	Pass
BT LE(1Mhms)	19	2440	7.27	5.333	7.27	7.23	5.284	7.23	30	Pass
LE(1Mbps)	39	2480	7.23	5.284	7.23	7.16	5.2	7.16	30	Pass
рт	1	2404	7.31	5.383	7.31	7.25	5.309	7.25	30	Pass
BT LE(2Mbps)	19	2440	7.30	5.37	7.30	7.23	5.284	7.23	30	Pass
LE(2Mbps)	38	2478	7.24	5.297	7.24	7.18	5.224	7.18	30	Pass

Note: Average Power is for reference Only.

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9.3. Power Spectral Density

Requirements

The Maximum of Power Spectral Density Measurement is 8dBm in any 3 kHz (If $G_{TX} > 6$ dBi, then PSD = $8 - (G_{TX} - 6)$).

Note:

- 1. PSD = power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz.
- 2. G_{TX} = the maximum transmitting antenna directional gain in dBi.
- 3. If EUT with Multiple Transmitter Output:
 - a. Directional Gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{Gn/20})^2 / \text{Nant}] dBi$.

Nant: Number of Transmit Antennas

G1, G2,..., Gn: Gain of Individual Antennas

Example: two antenna and gain 5 dBi / 3dBi, so if it was used for power density measurement Directional Gain = $10 \log[(10^{5/20} + 10^{3/20})^2 / 2] dBi = 7.07 dBi$

- b. "PSD per chain" of the report shown is maximum value for each chain, at the "Total PSD" is summing entire spectra across corresponding frequency bins on the various outputs by computer, refer KDB 662911 Method a) for calculating total power density.
- c. Method a) of power density measurement of KDB 662911 is used for calculating total power density with multiple transmitter output. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

Test procedure

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.
- d. Set the VBW $> 3 \times RBW$.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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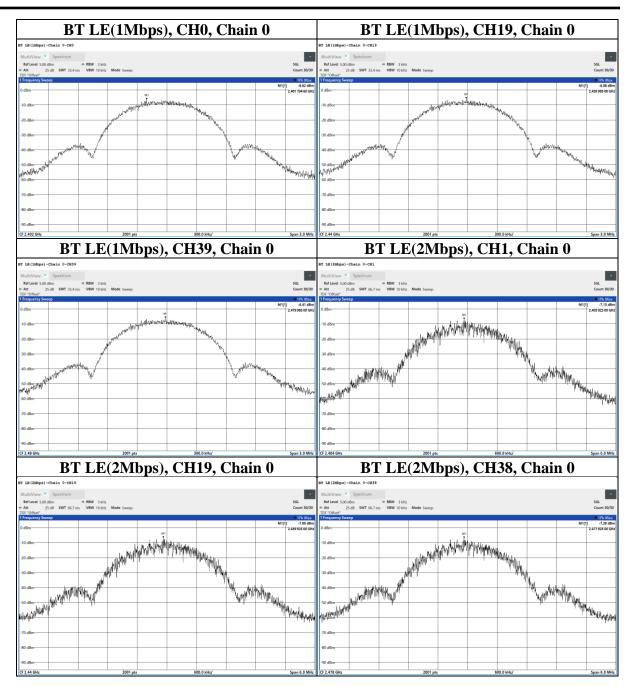
Test Data

Mode	СН	Freq (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BT LE(1Mbps)	0	2402	-6.62	8	PASS
BT LE(1Mbps)	19	2440	-6.08	8	PASS
BT LE(1Mbps)	39	2480	-6.41	8	PASS
BT LE(2Mbps)	1	2404	-7.13	8	PASS
BT LE(2Mbps)	19	2440	-7.09	8	PASS
BT LE(2Mbps)	38	2478	-7.28	8	PASS

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9.4. Conducted Out of Band Emission

Requirements

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b) (3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209 (a) is not required.

Test procedure

Measurement Procedure REF

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW \geq 300 kHz.
- 3. Set the span to 1.5 times the DTS bandwidth.
- 4. Detector = peak.
- 5. Sweep time = auto couple.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

Measurement Procedure OOBE

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

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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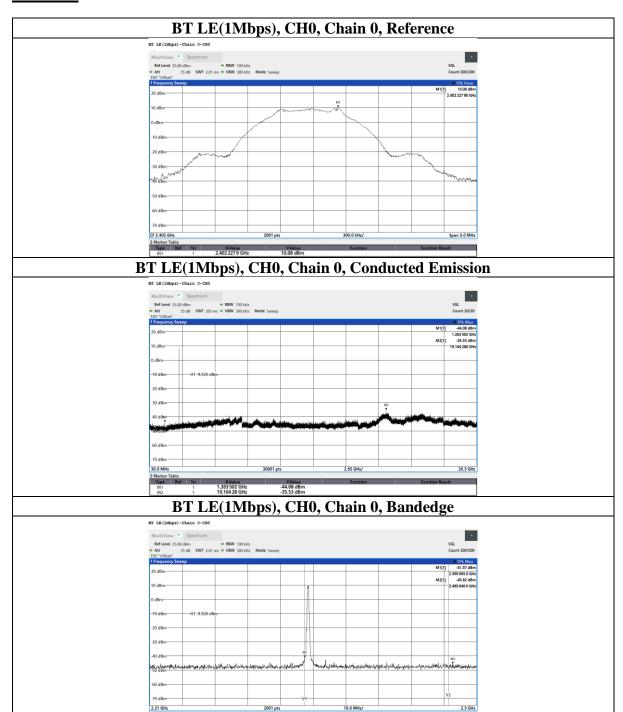
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Test Data



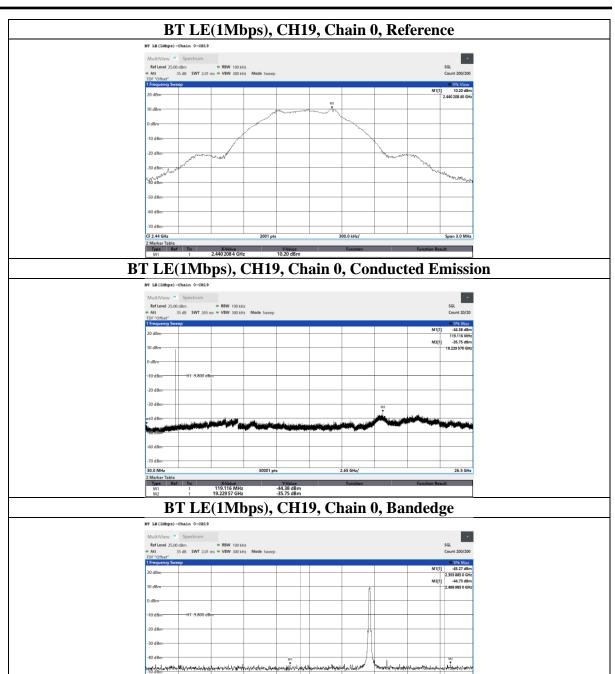
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19.0 MHz/

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2.31 GHz

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2.393 885 GHz 2.486 985 GHz -45.27 dBm -44.73 dBm

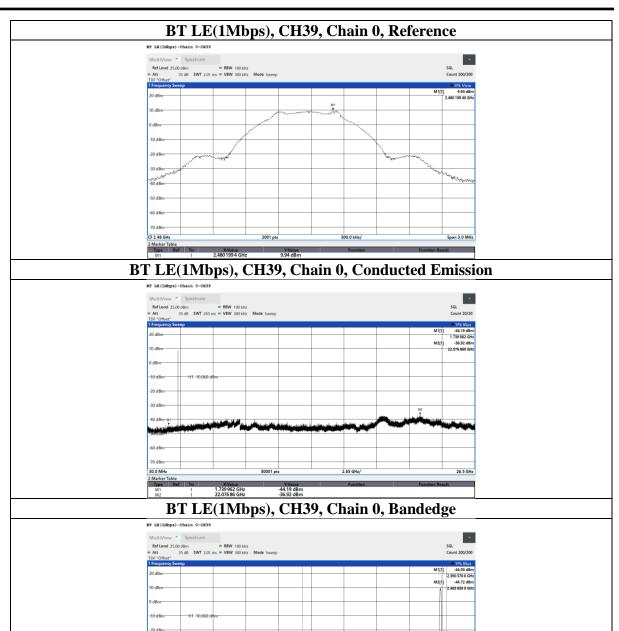
Telephone :+886-2-7737-3000 Facsimile (FAX) :+886-3-583-7948

Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1

2.5 GHz



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19.0 MHz/

Underwriters Laboratories Taiwan Co., Ltd.

30 dBn

-50 dBm

2.31 GHz

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2.390 37 GHz 2.483 85 GHz -44.93 dBm -44.72 dBm

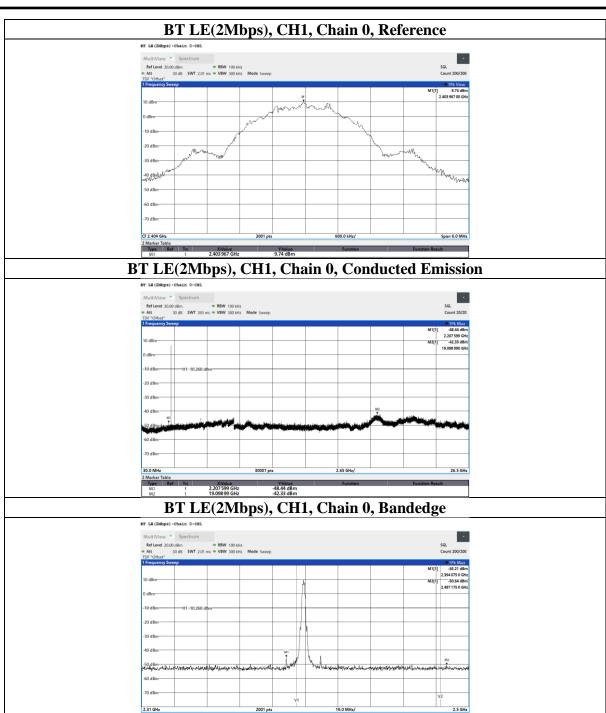
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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1

2.5 GHz



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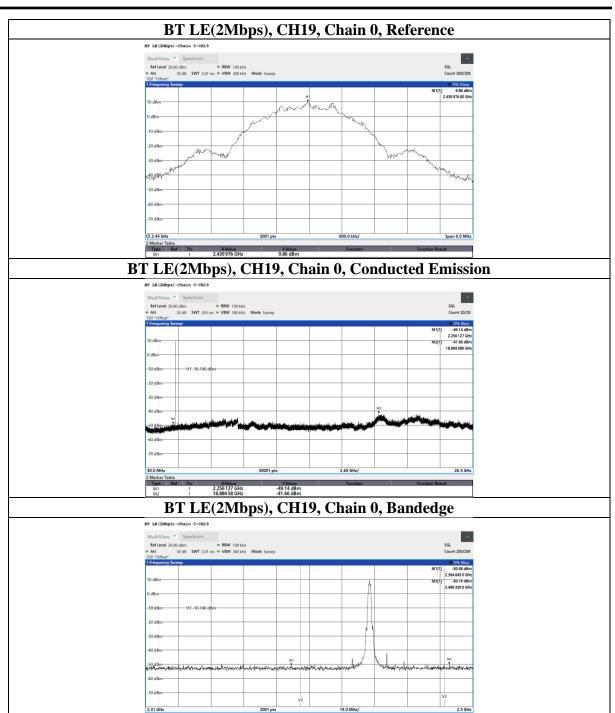
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2.394 075 GHz 2.487 175 GHz -45.21 dBm -50.64 dBm

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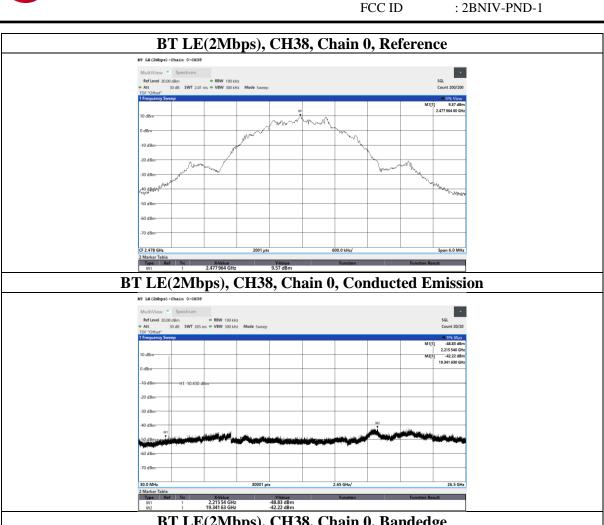
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BT LE(2Mbps), CH38, Chain 0, Bandedge



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9.5. Radiated Spurious Emission

Requirements

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency(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

NOTE:

- 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 1000MHz, 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 20dB under any condition of modulation.

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Test Procedures

[For $9 \text{ kHz} \sim 30 \text{ MHz}$]

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 30MHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

NOTE:

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

[For above 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters (for $30 \text{MHz} \sim 1 \text{GHz}$) / 1.5 meters (for above 1 GHz) 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. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- f. The test-receiver system 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.

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Note:

a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.

- b. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.

Peak

Frequency	RBW	VBW
9 kHz~150 kHz	200 Hz	600 Hz
150 kHz~30 MHz	10 kHz	30 kHz
30 MHz∼1 GHz	120 kHz	360 kHz
Above 1GHz	1 MHz	3 MHz

Average for above 1GHz

RBW	VBW
1MHz	Refer to section 6.6 for duty cycle.

- d. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
- e. Test data of Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
- f. Test data of Margin(dB) = Result value (dBuV/m) Limit value (dBuV/m).
- g. Test data of Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) Preamp Factor (dB).
- h. Test data of Notation "@" = Fundamental Frequency
- i. Test data of Notation " * " = The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.

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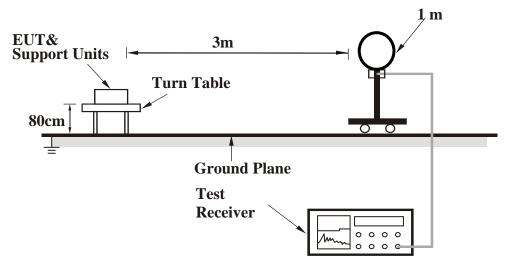
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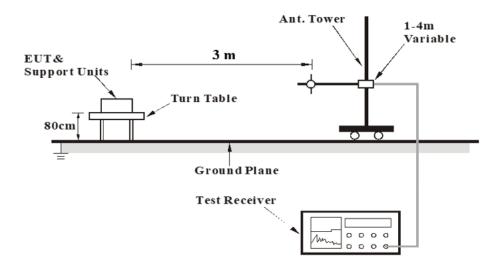
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Test Setup

<Frequency Range 9 kHz ~ 30 MHz>



<Frequency Range 30 MHz ~ 1 GHz >



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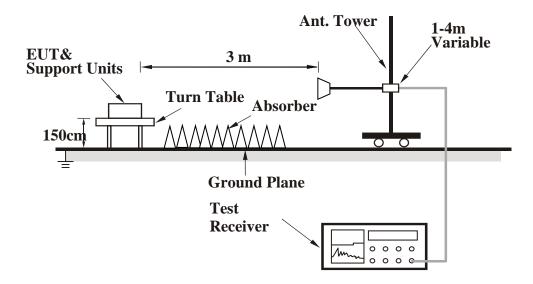
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<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the Setup Configurations.

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Test Data

Above 1 GHz

Mode BT-LE-1Mbps Channel 0

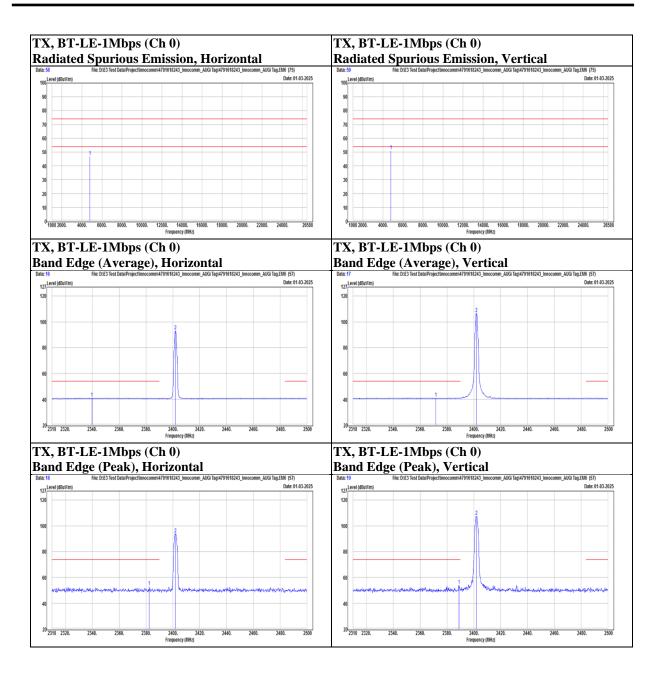
Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
Polarization	Notation	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark
		2339.83	28.57	12.4	40.97	54	-13.03	AVG
		2382.39	40.57	12.23	52.8	74	-21.2	PK
Horizontal	@	2402	81.59	12.14	93.73	N/A	N/A	PK
	@	2402	80.8	12.14	92.94	N/A	N/A	AVG
	*	4804	44.12	2.65	46.77	74	-27.23	PK
		2371.75	28.62	12.3	40.92	54	-13.08	AVG
		2389.04	41.76	12.2	53.96	74	-20.04	PK
Vertical	@	2402	95.18	12.14	107.32	N/A	N/A	PK
	@	2402	94.43	12.14	106.57	N/A	N/A	AVG
	*	4804	48.37	2.65	51.02	74	-22.98	PK

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Mode	BT-LE-1Mbps	Channel	19
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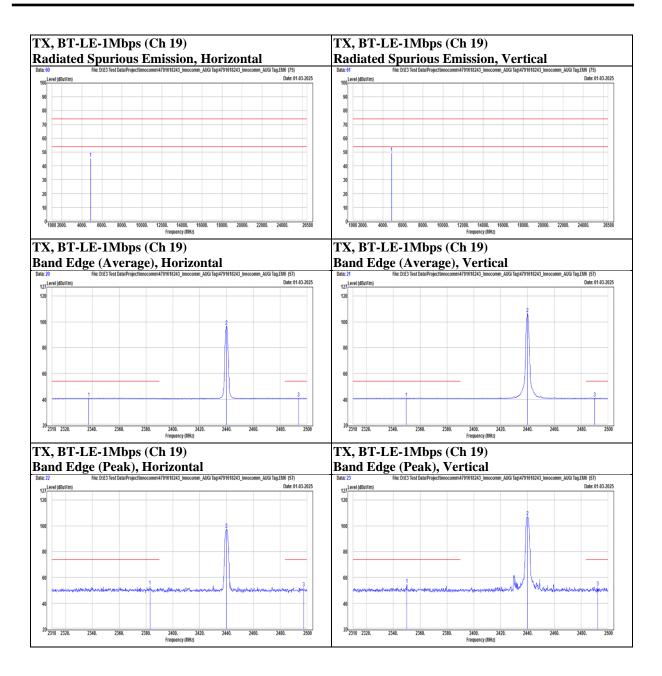
Dolomization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Damanla
Polarization	Notation	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark
		2337.36	28.56	12.39	40.95	54	-13.05	AVG
		2382.96	40.87	12.24	53.11	74	-20.89	PK
	@	2440	85.21	12.19	97.4	N/A	N/A	PK
Horizontal	@	2440	84.67	12.19	96.86	N/A	N/A	AVG
		2493.73	28.63	12.2	40.83	54	-13.17	AVG
		2497.53	39.76	12.2	51.96	74	-22.04	PK
	*	4880	42.9	2.7	45.6	74	-28.4	PK
		2349.71	28.51	12.41	40.92	54	-13.08	AVG
		2350.09	42.11	12.41	54.52	74	-19.48	PK
	@	2440	94.79	12.19	106.98	N/A	N/A	PK
Vertical	@	2440	94.27	12.19	106.46	N/A	N/A	AVG
- -		2489.93	28.72	12.2	40.92	54	-13.08	AVG
		2492.21	40.3	12.2	52.5	74	-21.5	PK
ı	*	4880	46.7	2.7	49.4	74	-24.6	PK

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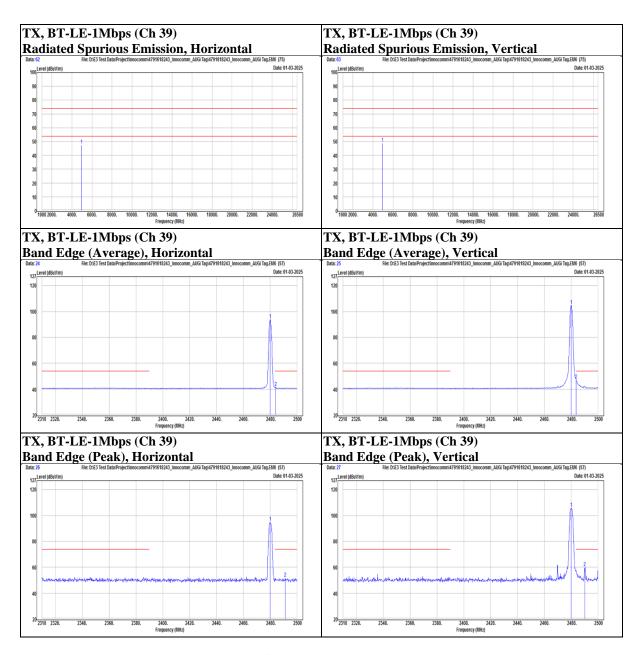
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Mode BT-LE-1Mbps	Channel 39
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
Polarization	Notation	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark
	@	2480	82.4	12.2	94.6	N/A	N/A	PK
	@	2480	81.43	12.2	93.63	N/A	N/A	AVG
Horizontal		2484.04	29.03	12.2	41.23	54	-12.77	AVG
		2491.07	39.33	12.2	51.53	74	-22.47	PK
	*	4960	44.63	2.84	47.47	74	-26.53	PK
	@	2480	93.38	12.2	105.58	N/A	N/A	PK
	@	2480	92.65	12.2	104.85	N/A	N/A	AVG
Vertical		2483.66	34.72	12.2	46.92	54	-7.08	AVG
		2490.12	47.6	12.2	59.8	74	-14.2	PK
	*	4960	45.94	2.84	48.78	74	-25.22	PK



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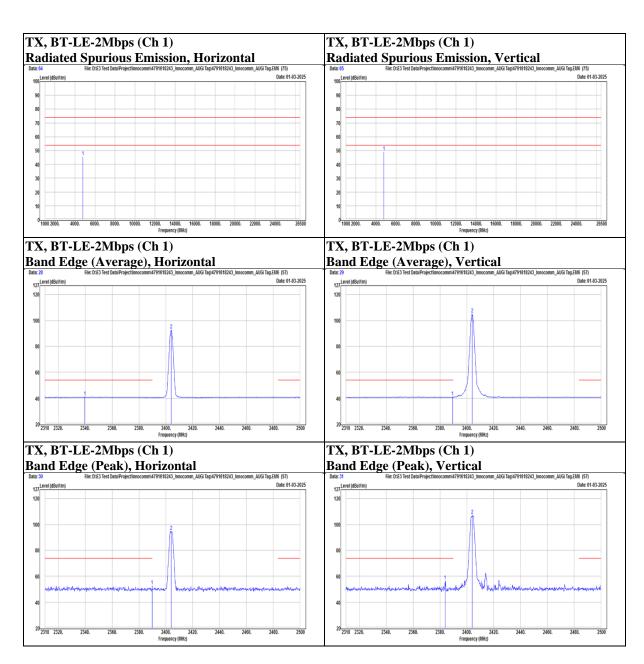
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Mode BT-LE-2Mbps Channel 1	BT-LI	-2Mbps	Channel	1
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Dalaniantian	Matatian	Frequency	Reading	Correct	Result	Limit	Margin	Damada
Polarization	Notation	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark
		2339.64	28.44	12.4	40.84	54	-13.16	AVG
		2389.8	40.23	12.19	52.42	74	-21.58	PK
Horizontal	@	2404	82.62	12.15	94.77	N/A	N/A	PK
	@	2404	80.52	12.15	92.67	N/A	N/A	AVG
	*	4808	42.93	2.65	45.58	74	-28.42	PK
		2383.91	44.11	12.23	56.34	74	-17.66	PK
		2389.42	28.86	12.19	41.05	54	-12.95	AVG
Vertical	@	2404	94.89	12.15	107.04	N/A	N/A	PK
	@	2404	92.83	12.15	104.98	N/A	N/A	AVG
	*	4808	46.4	2.65	49.05	74	-24.95	PK



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Mode	BT-LE-2Mbps	Channel	19
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Dalani-atian	Matatian	Frequency	Reading	Correct	Result	Limit	Margin	D1-
Polarization	Notation	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark
		2347.05	28.5	12.4	40.9	54	-13.1	AVG
		2387.14	40.25	12.21	52.46	74	-21.54	PK
	@	2440	84.84	12.19	97.03	N/A	N/A	PK
Horizontal	@	2440	83.19	12.19	95.38	N/A	N/A	AVG
		2484.04	39.25	12.2	51.45	74	-22.55	PK
		2484.23	28.82	12.2	41.02	54	-12.98	AVG
	*	4880	42.53	2.7	45.23	74	-28.77	PK
		2344.77	28.56	12.4	40.96	54	-13.04	AVG
		2367.76	40.2	12.32	52.52	74	-21.48	PK
	@	2440	94.59	12.19	106.78	N/A	N/A	PK
Vertical	@	2440	92.58	12.19	104.77	N/A	N/A	AVG
- -		2485.94	40.03	12.2	52.23	74	-21.77	PK
		2496.77	28.66	12.2	40.86	54	-13.14	AVG
	*	4880	46.75	2.7	49.45	74	-24.55	PK

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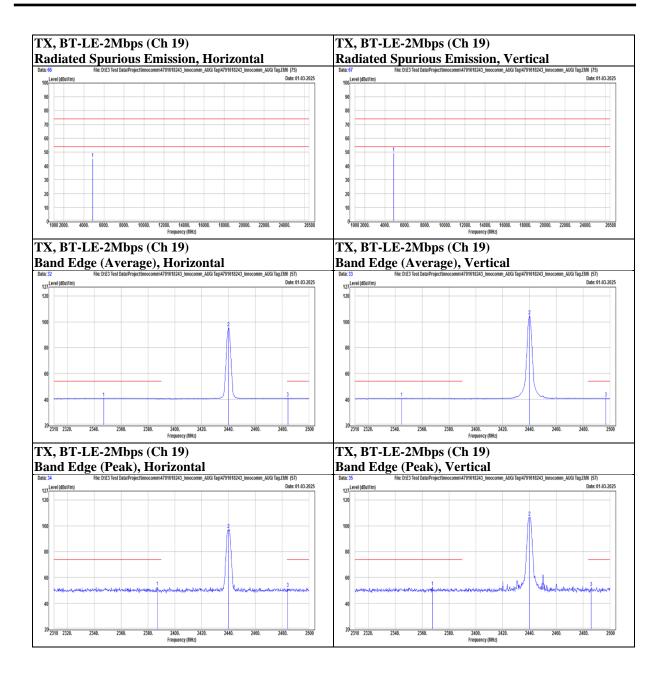
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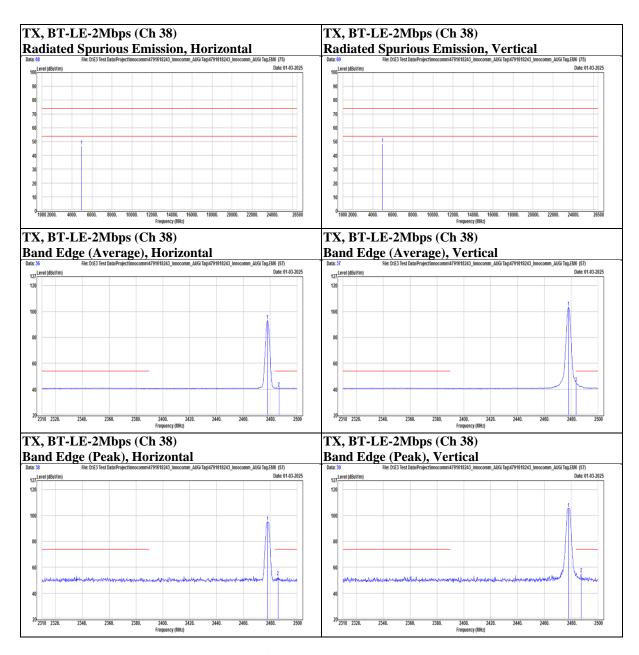
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Mode BT-LE-2Mbps Channel 38

Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
Polarization	Notation	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark
	@	2478	82.95	12.2	95.15	N/A	N/A	PK
	@	2478	80.89	12.2	93.09	N/A	N/A	AVG
Horizontal		2485.75	40.36	12.2	52.56	74	-21.44	PK
		2486.51	28.65	12.2	40.85	54	-13.15	AVG
	*	4956	43.86	2.81	46.67	74	-27.33	PK
	@	2478	93.27	12.2	105.47	N/A	N/A	PK
	@	2478	91.2	12.2	103.4	N/A	N/A	AVG
Vertical		2483.66	32.35	12.2	44.55	54	-9.45	AVG
		2487.46	42.75	12.21	54.96	74	-19.04	PK
	*	4956	45.74	2.81	48.55	74	-25.45	PK



Underwriters Laboratories Taiwan Co., Ltd.

Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948 Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1

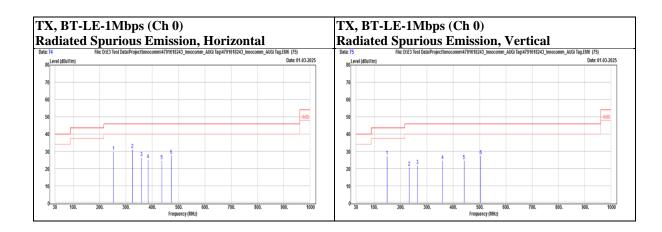


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Below 1 GHz

Mode BT-LE-1Mbps	Channel 0
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Dalariantian	Matatian	Frequency	Reading	Correct	Result	Limit	Margin	D
Polarization	Notation	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark
		252.13	42.16	-12.34	29.82	46	-16.18	PK
		324.88	40.71	-9.61	31.1	46	-14.9	PK
Horizontal		359.8	35.39	-8.89	26.5	46	-19.5	PK
Horizontai		384.05	32.99	-7.94	25.05	46	-20.95	PK
		436.43	30.89	-6.33	24.56	46	-21.44	PK
		472.32	32.97	-5.37	27.6	46	-18.4	PK
		148.34	39.01	-11.96	27.05	43.5	-16.45	PK
		232.73	34.36	-13.59	20.77	46	-25.23	PK
Vartical		263.77	33.83	-11.96	21.87	46	-24.13	PK
Vertical		359.8	33.63	-8.89	24.74	46	-21.26	PK
		441.28	30.68	-6.13	24.55	46	-21.45	PK
		504.33	32.27	-4.84	27.43	46	-18.57	PK



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9 kHz ~ 30 MHz Data:

For 9 kHz to 30 MHz radiated emission have performed all modes of operation were investigated. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

No non-compliance noted:

KDB 414788 D01 OATS and Chamber Correlation Justification

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.
- OATs and chamber correlation testing had been performed and chamber measured test results is the worst case test result.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

END OF REPORT

Telephone :+886-2-7737-3000 Facsimile (FAX) :+886-3-583-7948