

RADIO TEST REPORT

Product	:	FluentPet Connect
Model Name	:	B100
Series Model	:	E200
FCC ID	:	2A2ZM-FPC100
Test Regulation	:	FCC 47 CFR Part 15 Subpart C (Section 15.247)
Received Date	:	2021/11/23
Test Date	:	2021/11/23 ~ 2021/12/3
Issued Date	:	2022/3/2
Applicant	:	CleverPet, Inc. 302 Washington St. 150-3668 San Diego California United States
Issued By	:	Underwriters Laboratories Taiwan Co., Ltd. Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
	"Inlin	TAE



The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report are responsible of the test sample(s) provided by the client only and are not to be used to indicate applicability to other similar products.



REVISION HISTORY

Original Test Report No.: 4790201427-US-R0-V0

Rev.	Test report No.	Date	Page revised	Contents
Original	4790201427-US-R0-V0	2022/3/2	-	Initial issue
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1. Attestation of Test	t Results				
APPLICANT:	CleverPet, Inc. 302 Washington St. 150-3668 San Diego C States	California United			
EUT DESCRIPTION:	FluentPet Connect				
BRAND:	FluentPet				
MODEL:	B100				
SERIES MODEL:	E200				
SAMPLE STAGE:	Engineering Verification Test sample				
DATE of TESTED:	2021/11/23 ~ 2021/12/3				
	APPLICABLE STANDARDS				
S	STANDARD Test Results				

ECC 47 CEP DART 15 Subpart C (Section 15 247)

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. Measurement Uncertainties were not taken into account and are published for informational purposes only. 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:

Sally Lu Project Handler Date : 2022/3/2

Approved and Authorized By:

Waternil Guan Engineer

Date : 2022/3/2

Underwriters Laboratories Taiwan Co., Ltd.



2. Summary of Test Results

Summary of Test Results						
FCC Clause	FCC Clause Test Items					
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 MeasurementPASS					
15.207	AC Power Conducted Emission PASS					
15.203	Antenna Requirement	PASS				



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 B and Building 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.			



5. Measurement Uncertainty

For statement of conformity, accuracy method (Section 8.2.4 and 8.2.5 of ISO Guide 98-4) 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.

Measurement	Frequency	Uncertainty	
Conducted disturbance at mains terminals ports	150kHz ~ 30MHz	±3.1 dB	
RF Conducted	9 kHz - 40GHz	±1.9 dB	
Radiated disturbance below 30MHz	9 kHz - 30 MHz	±1.9 dB	
Radiated disturbance below 1 GHz	30MHz ~ 1GHz	±5.4 dB	
Radiated disturbance above 1 GHz	1GHz ~ 40GHz	±4.7 dB	



6. Equipment under Test

6.1. Description of EUT

Product	FluentPet Connect	
Brand Name	FluentPet	
Model Name	B100	
Series Model	E200	
Operating Frequency	2402MHz ~ 2480MHz	
Modulation	GFSK	
Transfer Rate	Up to 1 Mbps	
Number of Channel	40	
Maximum Output Power	1.35 dBm	
	B100: 3.7Vdc from battery	
Normal Voltage	5Vdc from Host	
	E200: 4.5Vdc from battery (1.5V x3 AA-LR6)	
Some la ID	Conducted Test: 4424547	
Sample ID	Radiated Test: 4424545	

Note:

1. The models difference table as below:

Model Functional Difference					
B100 (Mother)	E200 (Daughter)				
Main PCB V2R3	Main PCB V2R3				
BLE	BLE				
Wi-Fi Module (FCC ID: 2AC7Z-ESP32S2WROOM)	N/A				
Speaker	N/A				
Lipo Battery (3.7Vdc 1200mAh)	Alkaline AA Battery (4.5Vdc)				
USB port	N/A				

2. The EUT contains following accessory devices:

Product	Description	
USB Cable	Length: 0.24m	

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

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6.2. Channel List

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

40 channels are provided to this EUT:

6.3. Test Condition

Test Item	Test Site No.	Environmental Condition	Input Power	Test Date	Tested by
Antenna Port Conducted Measurement	SR4	20~27°C/ 50~68%RH	3.7Vdc & 5Vdc	2021/11/23~ 2021/12/03	Mike Cai
Radiated Spurious Emission	966-2	20~27°C/ 50~68%RH	3.7Vdc & 5Vdc	2021/11/23~ 2021/12/03	Mike Cai
AC power Line Conducted Emission	SR1	20~27°C/ 50~68%RH	3.7Vdc & 5Vdc	2021/11/23~ 2021/12/03	Mike Cai

FCC Test Firm Registration Number: 498077

6.4. Description of Available Antennas

Ant. No.	Transmitter Circuit	Brand Name	Model Name	Ant. Type	Maximum Gain (dBi)
1	Chain (0)	N/A	N/A	PCB	3.11

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.

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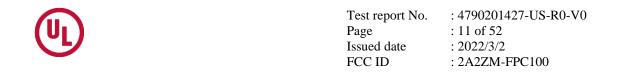


6.5. Test Mode Applicability and Tested Channel Detail

Model: B100

- The EUT has two power source types: 3.7Vdc from battery and 5Vdc from Host, above two types were pre-tested, the worst case was found in the 5Vdc. Therefore only the test data of the 5Vdc was recorded in this report.
- The fundamental of the EUT was investigated in three orthogonal axes X-Y/Y-Z/X-Z, it was determined that X-Y plane was worst-case. Therefore, all final radiated testing was performed with the EUT in X-Y plane.
- 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.
- For below 1 GHz radiated emission and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

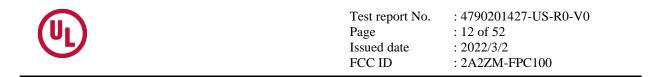
Test Item	Modulation Type	Available Channel	Test Channel	Data Rate
Radiated Emissions	GFSK	0 to 39	0,19,39	1 Mbps
Radiated Emissions (Below 1GHz)	GFSK	0 to 39	19	1 Mbps
AC Power Line Conducted Emission	GFSK	0 to 39	19	1 Mbps
Antenna Port Conducted Measurement	GFSK	0 to 39	0,19,39	1 Mbps



Model: E200

- The EUT only one power source types: 4.5Vdc from battery. Therefore only the test data of the 4.5Vdc was recorded in this report.
- The fundamental of the EUT was investigated in three orthogonal axes X-Y/Y-Z/X-Z, it was determined that X-Y plane was worst-case. Therefore, all final radiated testing was performed with the EUT in X-Y plane.
- 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.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Test Item	Modulation Type	Available Channel	Test Channel	Data Rate
Radiated Emissions	GFSK	0 to 39	0,19,39	1 Mbps
Radiated Emissions (Below 1GHz)	GFSK	0 to 39	19	1 Mbps



6.6. Duty cycle

BT LE_1Mbps

BT-LE-1M: Duty cycle = 0.41/0.62 = 66.1%, Duty factor(dB) = $10 * \log(1/0.661) = 1.8$

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7. Test Equipment

	Test Equipment List							
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Expired date			
Radiated Spurious Emission								
Spectrum Analyzer	Keysight	N9010A	MY56070827	2021/11/9	2022/11/8			
EMI Test Receiver	Rohde & Schwarz	ESR7	101754	2020/12/11	2021/12/10			
Loop Antenna	ETS lindgren	6502	00213440	2020/12/25	2021/12/24			
Trilog- Broadband Antenna with 5dB Attenuator	Schwarzbeck & EMCI	VULB 9168 & N-6-05	774 & AT- N0538	2021/1/13	2022/1/12			
Horn Antenna (1-18 GHz)	Schwarzbeck	BBHA 9120 D	01690	2020/12/30	2021/12/29			
Horn Antenna (18-40 GHz)	Schwarzbeck	BBHA 9170	781	2020/12/30	2021/12/29			
Preamplifier (30-1000 MHz)	EMCI	EMC330E	980405	2021/6/8	2022/6/7			
Preamplifier (1-18 GHz)	EMCI	EMC051835BE	980406	2021/2/3	2022/2/2			
Preamplifier (18-40GHz)	EMCI	EMC184040SEE	980426	2021/5/19	2022/5/18			
Cables	Hanyitek	K1K50-UP0264- K1K50-2500	170214-4 & 170425-2	2021/1/22	2022/1/21			
Cables	Hanyitek	K1K50-UP0264- K1K50-2500	170214-1 & 170214-2	2021/1/22	2022/1/21			



	Test Equipment List							
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Expired date			
Antenna Port Conducted Measurement								
Spectrum Analyzer	Rohde & Schwarz	FSV40	101490	2021/9/7	2022/9/6			
Pulse Power Sensor	Anritsu	MA2411B	1531202	2020/12/21	2021/12/20			
Power Meter	Anritsu	ML2495A	1645002	2020/12/21	2021/12/20			
	AC po	wer Line Con	ducted Emission					
EMI Test Receiver	Rohde & Schwarz	ESR7	101753	2021/11/15	2022/11/14			
Two-Line V- Network	Rohde & Schwarz	ENV216	102136	2021/8/30	2022/8/29			
Impuls-Begrenzer Pulse Limiter	Rohde & Schwarz	ESH3-Z2	102219-Qt	2021/8/26	2022/8/25			
Cables	TITAN	CFD200	T0732ACFD20 020A300-1	2021/3/2	2022/3/1			

UL Software						
Description	Name	Version				
Radiated measurement	e3	6.191211 (V6)				
Conducted measurement	RF Conducted Test Tools	ver 2.4.0.620b				
AC power Line Conducted Emission	EZ_EMC	UL-3A1.2				



8. Description of Test Setup

Support Equipment

ID	Equipment	Brand Name	Model Name	S/N	Remark
А	USB Adapter	Xiaomi	AD16TW	AD16TW193400006532	Provided by Lab

I/O Cables

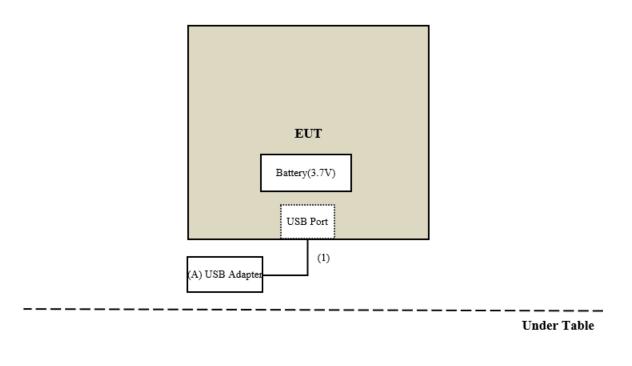
ID	Equipment	Brand Name	Model Name	Length (m)	Remark
1	Type C to Type C USB Cable	N/A	N/A	0.24	Supplied by client

Test Setup

Controlled using a bespoke application (SmartSnippets_Studio_v2.0.16.1760) 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

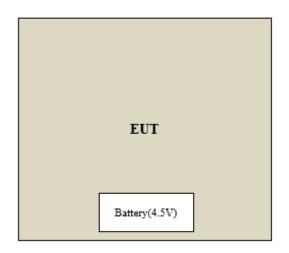
B100



----- Remote Site

(UL)	Test report No. Page Issued date FCC ID	: 4790201427-US-R0-V0 : 17 of 52 : 2022/3/2 : 2A2ZM-FPC100
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E200



Under Table

Remote Site



9. Test Results

9.1.6dB Bandwidth

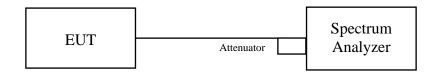
Requirements

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 x 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



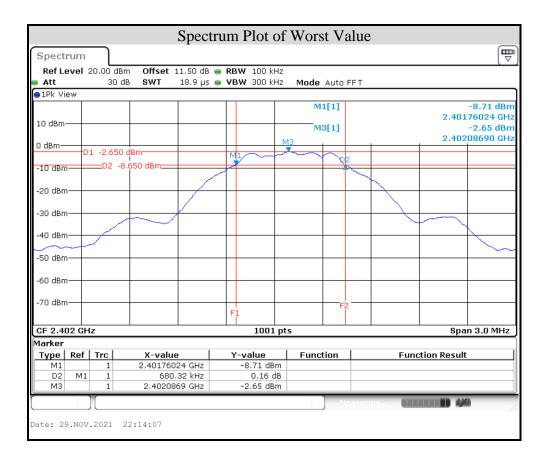
The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.



Test Data

BT LE_1Mbps

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
0	2402	0.68	0.5	PASS
19	2440	0.69	0.5	PASS
39	2480	0.68	0.5	PASS





9.2. Conducted Output Power

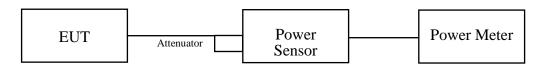
Requirements

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

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.

Test Setup



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



Test Data

Peak Power

BT LE_1Mbps

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
0	2402	1.358	1.33	30	PASS
19	2440	1.365	1.35	30	PASS
39	2480	1.327	1.23	30	PASS

Average Power (Reference Only)

BT LE_1Mbps

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	1.297	1.13
19	2440	1.309	1.17
39	2480	1.274	1.05



9.3. Power Spectral Density

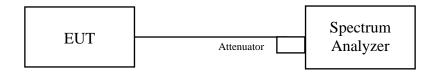
Requirements

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

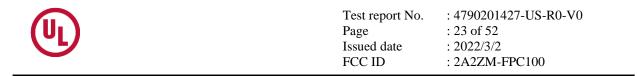
Test procedure

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the \hat{RBW} to: 3 kHz $\leq RBW \leq 100$ kHz.
- d. Set the VBW \ge 3 × 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



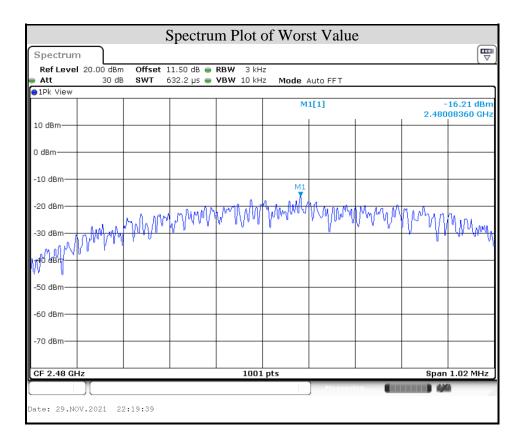
The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.



Test Data

BT LE_1Mbps

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
0	2402	-16.82	8	PASS
19	2440	-16.77	8	PASS
39	2480	-16.21	8	PASS





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

- a. Set the RBW = 100 kHz.
- b. Set the VBW \geq 300 kHz.
- c. Set the span to 1.5 times the DTS bandwidth.
- d. Detector = peak.
- e. Sweep time = auto couple.
- f. Trace mode = max hold.
- g. Allow trace to fully stabilize.
- h. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

Measurement Procedure OOBE

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

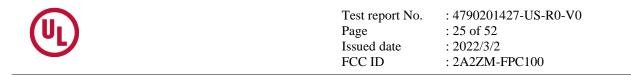
Test Setup



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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Test Data

BT LE_1Mbps

ectrum of Lovel 20 00 dim Offsot 11.50 dis e RBW 100 H/2 tt 30 dis SWT 19,2 µs e VBW 300 H/2 Mode Auto FFT % Mew den dim dim dim dim	Image: Spectrum Ref Level 20.00 dB W Att 20.00 dB 91% View Id Dirty 0 dBm 0 dBm -10 dBm -20 dBm 01 -22.56	m Offset 11.50 dB 8 SWT 265 ms	RBW 100 kHz VBW 300 kHz Mod	de Auto Sweep	-39,59 dBm 17.706520 GHz
tt 30 db SWT 19.2 µs ¥ VBW Nude Auto FFT % Mow -2.74 dem -2.74 dem -0.24	Att 30 d Bm O dBm O	m Offset 11.50 dB B SWT 265 ms	RBW 100 kHz VBW 300 kHz Mor		-39.59 dBm 17.706520 GHz
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	Ch 19				
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ef Level 20.00 dBm Offset 11.50 dB e RBW 100 kHz tt 30 dB SWT 18.9 µs e VBW 300 kHz Mode Auto FFT	Ref Level 20.00 dB		 RBW 100 kHz VBW 300 kHz Mod 		
Pk View	Att 30 d 1Pk View	10 3441 203 113	• • • • • • • • • • • • • • • • • • •		
M1[1] -2.40 2.44008580	1 GHz			M1[1]	-40.70 dBm 17.711810 GHz
d8m	10 dBm				
Bm	0 dBm				
	-10 dBm				
dBm					
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2.44 GHz 1001 pts Span 1.035	MHz M1 1	17.71181 GHz	-40.70 dBm		THE AND
				Measuring	
: 29.NOV.2021 22:17:21	Date: 29.NOV.2021	22:17:35			



PPK View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm -70 dBm Start 30.0 MHz Marker Type [Ref Trc M1 1 Date: 29,1007,202	20 dB SWT	10 10 10 10 10 10 10 10 10 10 10 10 10 1	VBW 300 ki	H2 Mode	Measur			26.5 GHz
Ref Level 20.00 Att 9 Att 9 Att 9 IP: View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm Start 30.0 MHz Marker Type [Ref Trc M1 2] Date: 29,10V,202	20 dB SWT	265 ms	VBW 300 ki	I pts Function	Ma Ma		17.7	29.5 dBm 19750 GHz 26.5 GHz
PIP. View 10 dBm 0 dBm -10 dBm -20 dBm -10 dBm -30 dBm -40 dBm -40 dBm -70 dBm Start 30.0 MHz Marker Type [Ref Trc M1 1 Date: 29,1007,202	1,030 dBm 1,030 dBm 1,1 0,030 dBm	10 10 10 10 10 10 10 10 10 10 10 10 10 1	3000 Y-value -39.95 db	1 pts	Ma Ma		17.7	26.5 GHz
10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm -60 dBm -70 dBm -70 dBm Stort 30.0 MHz Type I Ref Tre M1 F	E X-valu 1 17.716	975 GHz	Y-value -39.95 dB	1 pts	M2 12 mm ph 1 2 ction		17.7	26.5 GHz
0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm -70 d	E X-valu 1 17.716	975 GHz	Y-value -39.95 dB	1 pts	M2 12 mm ph 1 2 ction		Stop	26.5 GHz
0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm -70 d	E X-valu 1 17.716	975 GHz	Y-value -39.95 dB	11 pts Func	ction		Stop	26.5 GHz
-10 dBm	E X-valu 1 17.716	975 GHz	Y-value -39.95 dB	11 pts Func	ction		Stop	26.5 GHz
-20 dBm 01 -2 -30 dBm - -40 dBm - -40 dBm - -70 dBm - 70 dBm - -70	E X-valu 1 17.716	975 GHz	Y-value -39.95 dB	11 pts Func	ction		Stop	26.5 GHz
-30 dBm -40 dBm -50 dBm -70 dBm -70 dBm Start 30.0 MHz Market Market Date: 29.10V.202	E X-valu 1 17.716	975 GHz	Y-value -39.95 dB	11 pts Func	ction		Stop	26.5 GHz
-30 dBm -40 dBm -50 dBm -70 dBm -70 dBm Start 30.0 MHz Market Market Date: 29.10V.202	E X-valu 1 17.716	975 GHz	Y-value -39.95 dB	11 pts Func	ction		Stop	26.5 GHz
-40 dBm -60 dBm -70 dBm -70 dBm Start 30.0 MHz Marker Type Ref Trc M1	1 17.719	975 GHz	Y-value -39.95 dB	11 pts Func	ction		Stop	26.5 GHz
-60 dBm- -70 dBm- Stort 30.0 MHz Marker Marker Date: 29,1007,202	1 17.719	975 GHz	Y-value -39.95 dB	11 pts Func	ction		Stop	26.5 GHz
-60 dBm- -70 dBm- Stort 30.0 MHz Marker Marker Date: 29,1007,202	1 17.719	975 GHz	Y-value -39.95 dB	11 pts Func	ction		Stop	26.5 GHz
-70 dBm Start 30.0 MHz Marker Type Ref Trc M1 : Date: 29.NOV.202	1 17.719	975 GHz	Y-value -39.95 dB	11 pts Func	ction		Stop	26.5 GHz
-70 dBm Start 30.0 MHz Marker Type Ref Trc M1 : Date: 29.NOV.202	1 17.719	975 GHz	Y-value -39.95 dB	Func	Measur	Funct		
-70 dBm Start 30.0 MHz Marker Type Ref Trc M1 : Date: 29.NOV.202	1 17.719	975 GHz	Y-value -39.95 dB	Func	Measur	Funct		
Start 30.0 MHz Marker Type Ref Trc M1 : Date: 29.NOV.202	1 17.719	975 GHz	Y-value -39.95 dB	Func	Measur	Func		
Marker Type Ref Trc M1 1 Date: 29.NOV.202	1 17.719	975 GHz	Y-value -39.95 dB	Func	Measur	Funct		
Marker Type Ref Trc M1 1 Date: 29.NOV.202	1 17.719	975 GHz	Y-value -39.95 dB	Func	Measur	Fund		
Type Ref Trc M1 2 Date: 29.NoV.202	1 17.719	975 GHz	-39.95 dB	3m	Measur	Func	tion Result	
Date: 29.NOV.202					Edge			
	1 22:23:37	Ch	20 Da	and F	Edge			
	1 22:23:37	Ch	20 Da	and F	Edge			
	、 、		39 Da	anu E	8-			
Spectrum Ref Level 20.00		11.50 dB 🖷	RBW 100 ki	Hz				
Att 1Pk View	30 dB SWT	94.7 µs 🖷	VBW 300 ki	Hz Mode	Auto FFT			
IPK VIBW				M	11[1]			45.92 dBm
10 dBm				M	12[1]			47380 GHz 46.85 dBm
10 080					12[1]		2.48	35000 GHz
0 dBm	-							
	ľ	~ I						
-10 dBm								
-20 dBm								
01 -2	1.930 dBm							
-30 dBm		6			-			
	ľ							
	. M.	. AL M2	M1					
and marken war	Whyen "	VV	atrony	anstation	marin	user alor	manus	Marian
-60 dBm								
-70 dBm								
		F1						
Start 2.47 GHz			1001	1 pts				2.505 GHz
					Measur		1,0	11
Date: 29.NOV.202								
	10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm -70 dBm -70 dBm	10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -40 dBm -60 dBm -70 dBm -70 dBm	10 dBm 0 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm -40 dBm -50 dB	10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -50 dBm -10 dB	10 dbm N 10 dbm N 0 dbm N -10 dbm N -20 dbm N -30 dbm N -50 dbm N -50 dbm N -70 dbm P1 Start 2.47 GHz 1001 pts	MI[1] 10 dBm 0 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70	10 dBm M1[1] 10 dBm M2[1] 0 dBm M1 -10 dBm - -20 dBm 01 - 21.030 dBm -30 dBm - -40 dBm - -50 dBm - -70 dBm - -70 dBm F1	10 dBm M1[1] 2.48 0 dBm



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.



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.

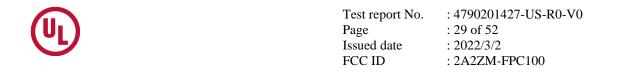
NOTE:

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

[For above 30 MHz]

- The EUT was placed on the top of a rotating table 0.8 meters (for $30MHz \sim 1GHz$) / 1.5 meters a. (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. 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.

Underwriters Laboratories Taiwan Co., Ltd.



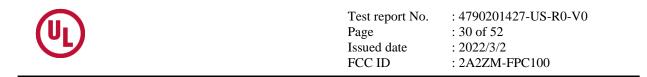
Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz a. 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.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth c. is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle \geq 98%) for Average detection (AV) at frequency above 1GHz.

Configuration	Average			
Configuration	RBW	VBW		
Bluetooth LE	1MHz	3kHz		

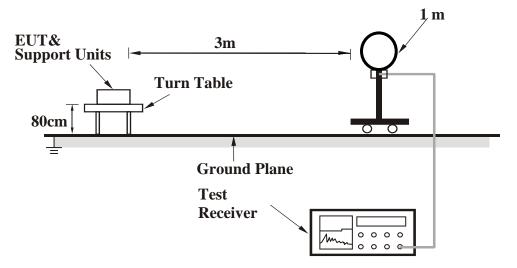
Note:

- The BT-LE-1M Duty cycle = (0.41/0.62)*100% = 66.129 < 98%, so video bandwidth is 1/0.41 =2.439 kHz. Therefore VBW configuration is 3kHz for testing.
- 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) + 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
- Test data of Notation " * " = The peak result under 20 dB above and complies with AVG limit, i. AVG result is deemed to comply with AVG limit.

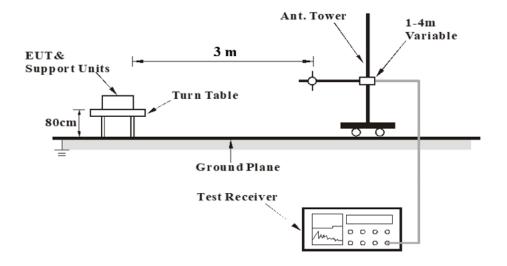


Test Setup

<Frequency Range 9 kHz ~ 30 MHz>

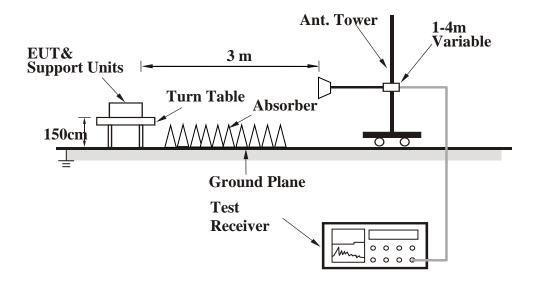


<Frequency Range 30 MHz ~ 1 GHz >



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<Frequency Range above 1 GHz>



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



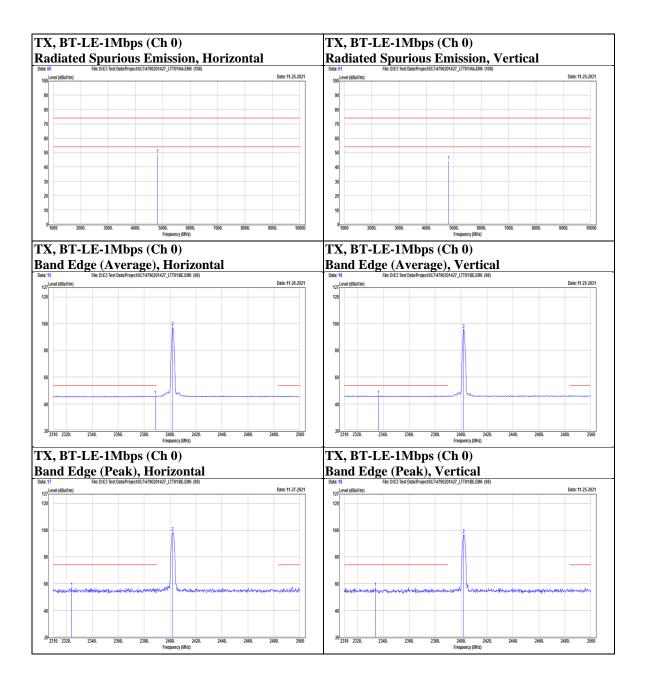
Test Data

B100

Above 1 GHz

Mode BT-LE-1Mbps				Channel 0						
Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark		
	Notation	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Kennark		
Horizontal		2324.06	40.89	16.15	57.04	74	-16.96	РК		
		2388.85	29.73	16.1	45.83	54	-8.17	AVG		
	@	2402	82.11	16.13	98.24	N/A	N/A	РК		
	@	2402	81.21	16.13	97.34	N/A	N/A	AVG		
	*	4804	46.44	2.46	48.9	74	-25.1	РК		
		2334.13	40.94	16.1	57.04	74	-16.96	РК		
		2336.22	29.99	16.08	46.07	54	-7.93	AVG		
Vertical	@	2402	80.6	16.13	96.73	N/A	N/A	РК		
	@	2402	79.55	16.13	95.68	N/A	N/A	AVG		
	*	4804	41.58	2.46	44.04	74	-29.96	РК		

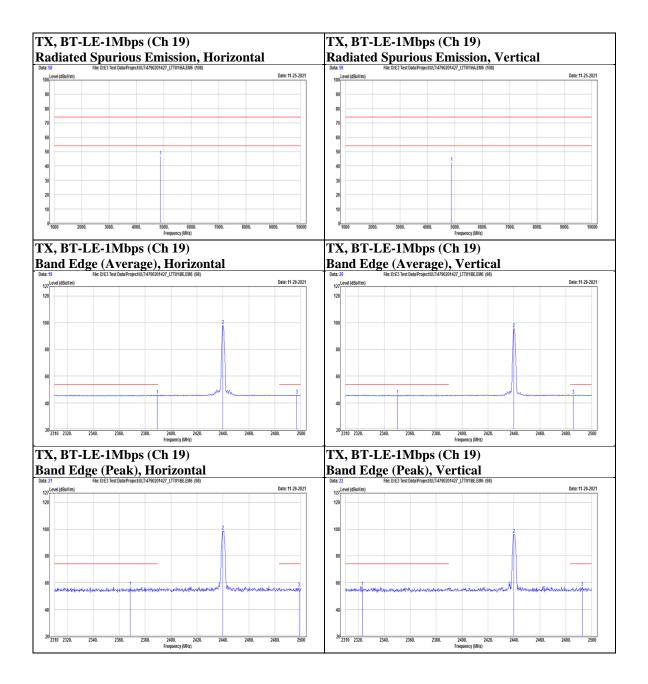






Mode	BT-LE-1Mb	ps		Channel	1 19					
Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Domork		
	Notation	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark		
		2368.52	40.88	16.07	56.95	74	-17.05	PK		
		2389.42	29.79	16.1	45.89	54	-8.11	AVG		
	@	2440	82.62	16.11	98.73	N/A	N/A	PK		
Horizontal	@	2440	81.81	16.11	97.92	N/A	N/A	AVG		
		2496.96	29.67	16.1	45.77	54	-8.23	AVG		
		2498.67	39.93	16.1	56.03	74	-17.97	PK		
	*	4880	44	2.66	46.66	74	-27.34	PK		
		2323.11	40.89	16.14	57.03	74	-16.97	PK		
		2350.28	29.87	16.03	45.9	54	-8.1	AVG		
	@	2440	79.97	16.11	96.08	N/A	N/A	PK		
Vertical	@	2440	79.41	16.11	95.52	N/A	N/A	AVG		
		2485.75	29.86	16.1	45.96	54	-8.04	AVG		
		2492.78	40.58	16.1	56.68	74	-17.32	PK		
	*	4880	39.77	2.66	42.43	74	-31.57	РК		

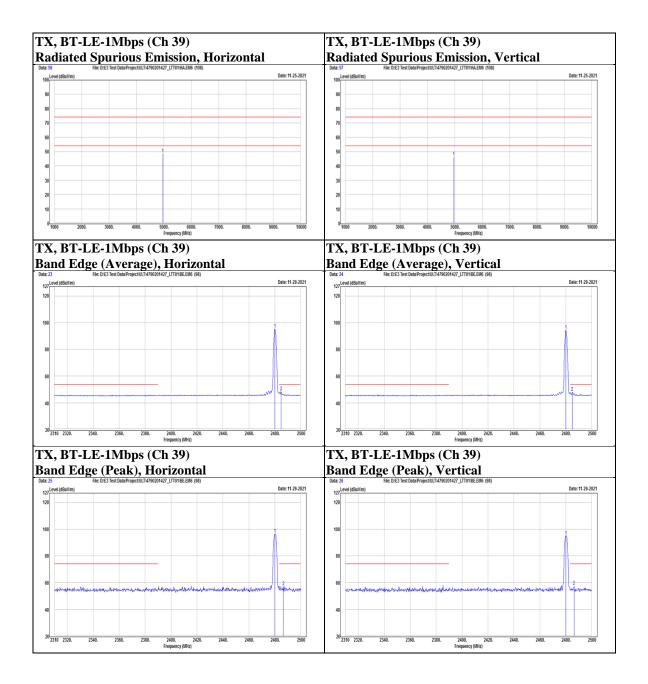






Mode	BT-LE-1Mbps			Channel 39						
Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark		
	Inotation	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark		
Horizontal	@	2480	80.29	16.1	96.39	N/A	N/A	PK		
	@	2480	79.16	16.1	95.26	N/A	N/A	AVG		
		2484.8	32.16	16.1	48.26	54	-5.74	AVG		
		2486.7	40.95	16.1	57.05	74	-16.95	PK		
	*	4960	46.07	2.62	48.69	74	-25.31	PK		
	@	2480	78.88	16.1	94.98	N/A	N/A	PK		
	@	2480	78.11	16.1	94.21	N/A	N/A	AVG		
Vertical		2484.99	31.75	16.1	47.85	54	-6.15	AVG		
		2486.32	41.1	16.1	57.2	74	-16.8	PK		
	*	4960	43.49	2.62	46.11	74	-27.89	РК		



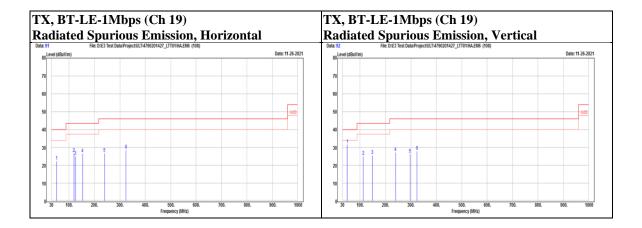


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Below 1 GHz

Mode E	BT-LE-1Mbps				Channel 19					
Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark		
	Notation	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Kelliark		
		50.37	33.36	-11.1	22.26	40	-17.74	PK		
		119.24	41.26	-14.41	26.85	43.5	-16.65	PK		
Horizontal		125.06	39.11	-13.96	25.15	43.5	-18.35	PK		
		153.19	37.84	-11.34	26.5	43.5	-17	PK		
		239.52	38.96	-12.12	26.84	46	-19.16	PK		
		323.91	37.76	-9.18	28.58	46	-17.42	PK		
		49.4	42.7	-11.15	31.55	40	-8.45	PK		
		112.45	39.92	-14.75	25.17	43.5	-18.33	PK		
Vertical		148.34	37.07	-11.54	25.53	43.5	-17.97	PK		
Vertical		239.52	39.41	-12.12	27.29	46	-18.71	PK		
		296.75	36.35	-10.08	26.27	46	-19.73	PK		
		323.91	37.17	-9.18	27.99	46	-18.01	PK		







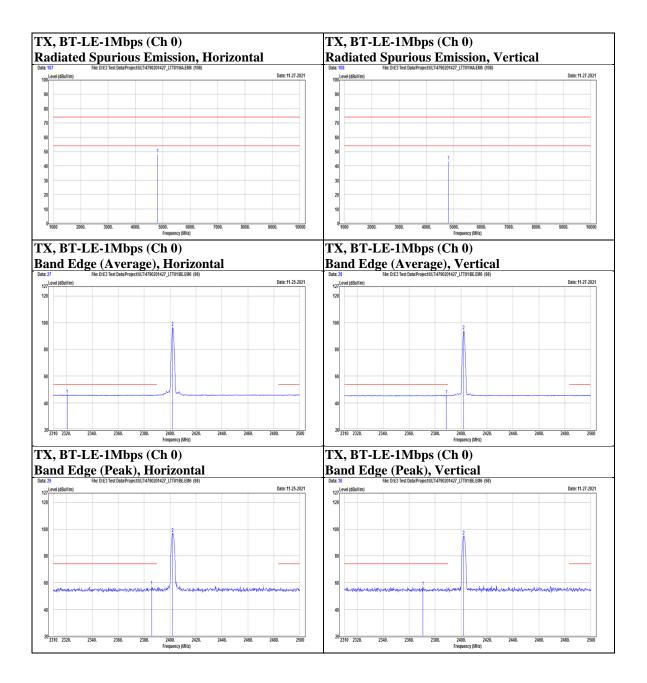
E200

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
Horizontal		2320.83	29.83	16.16	45.99	54	-8.01	AVG
		2385.81	41.25	16.09	57.34	74	-16.66	РК
	@	2402	80.68	16.13	96.81	N/A	N/A	РК
	@	2402	80.3	16.13	96.43	N/A	N/A	AVG
	*	4804	45.89	2.46	48.35	74	-25.65	РК
		2370.61	40.81	16.07	56.88	74	-17.12	РК
		2388.66	29.71	16.1	45.81	54	-8.19	AVG
Vertical	@	2402	78.93	16.13	95.06	N/A	N/A	РК
	@	2402	77.84	16.13	93.97	N/A	N/A	AVG
	*	4804	40.99	2.46	43.45	74	-30.55	РК

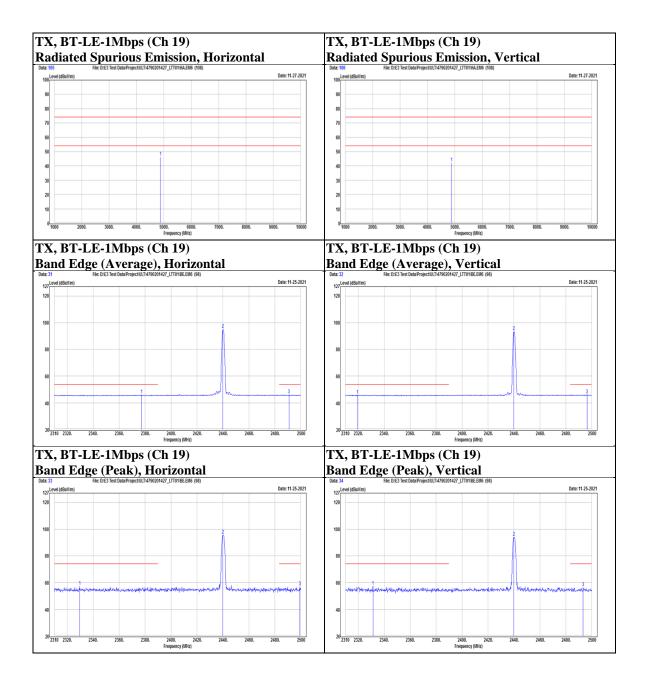






Mode I	BT-LE-1Mbps Channel 19							
Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
Polarization	Notation	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark
		2329.57	41.3	16.11	57.41	74	-16.59	PK
		2377.26	30.1	16.08	46.18	54	-7.82	AVG
	@	2440	79.37	16.11	95.48	N/A	N/A	PK
Horizontal	@	2440	78.77	16.11	94.88	N/A	N/A	AVG
		2490.88	29.95	16.1	46.05	54	-7.95	AVG
		2499.24	40.77	16.1	56.87	74	-17.13	PK
	*	4880	43.5	2.66	46.16	74	-27.84	PK
		2319.31	29.79	16.16	45.95	54	-8.05	AVG
		2331.28	41.16	16.1	57.26	74	-16.74	PK
	@	2440	77.94	16.11	94.05	N/A	N/A	PK
Vertical	@	2440	77.32	16.11	93.43	N/A	N/A	AVG
		2493.35	40.31	16.1	56.41	74	-17.59	PK
		2496.39	30.04	16.1	46.14	54	-7.86	AVG
	*	4880	39.4	2.66	42.06	74	-31.94	РК

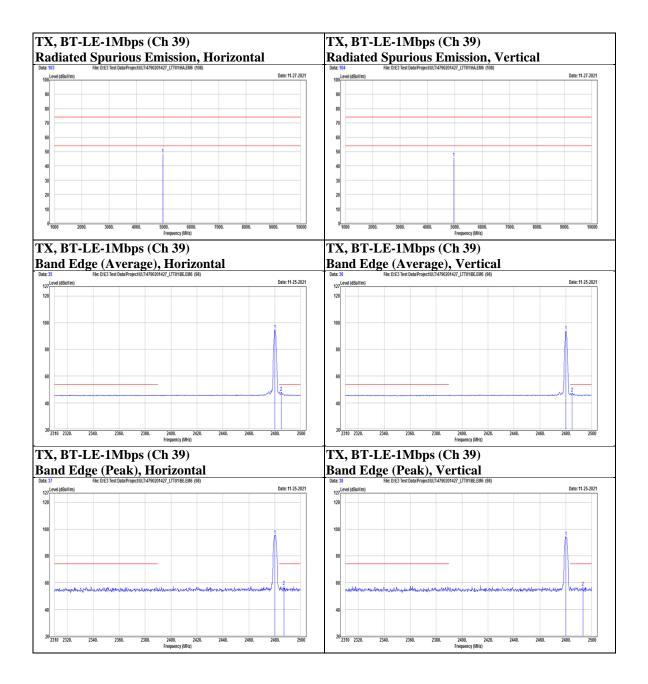






Mode	BT-LE-1Mb	Channel	l 39					
Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Domork
Polarization	Notation	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Remark
	@	2480	79.3	16.1	95.4	N/A	N/A	PK
	@	2480	78.62	16.1	94.72	N/A	N/A	AVG
Horizontal		2484.99	31.93	16.1	48.03	54	-5.97	AVG
		2487.08	41.17	16.1	57.27	74	-16.73	PK
	*	4960	45.51	2.62	48.13	74	-25.87	PK
	@	2480	78.21	16.1	94.31	N/A	N/A	PK
	@	2480	77.51	16.1	93.61	N/A	N/A	AVG
Vertical		2484.8	31.26	16.1	47.36	54	-6.64	AVG
		2493.16	40.68	16.1	56.78	74	-17.22	PK
	*	4960	42.9	2.62	45.52	74	-28.48	РК



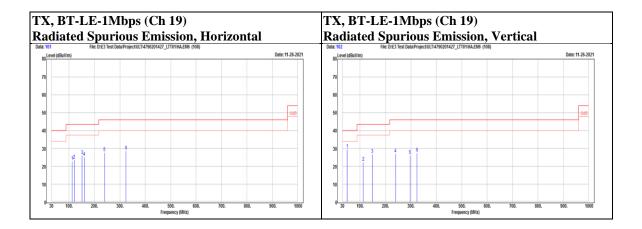


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	I CC ID	

Below 1 GHz

Mode E	BT-LE-1Mbps Channel 19								
Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark	
	Notation	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Kennark	
		112.45	37.62	-14.75	22.87	43.5	-20.63	PK	
		120.21	37.72	-14.3	23.42	43.5	-20.08	РК	
Horizontal		151.25	37.48	-11.43	26.05	43.5	-17.45	РК	
		159.98	36.15	-11.08	25.07	43.5	-18.43	PK	
		239.52	39.81	-12.12	27.69	46	-18.31	PK	
		323.91	37.77	-9.18	28.59	46	-17.41	PK	
		49.4	40.76	-11.15	29.61	40	-10.39	PK	
		112.45	37.1	-14.75	22.35	43.5	-21.15	PK	
Vertical		148.34	38.3	-11.54	26.76	43.5	-16.74	PK	
Vertical		239.52	39.06	-12.12	26.94	46	-19.06	РК	
l l		296.75	36.13	-10.08	26.05	46	-19.95	PK	
ĺ		323.91	36.69	-9.18	27.51	46	-18.49	РК	







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.



9.6. AC Power Line Conducted Emission

Requirements

Frequency (MHz)	Conducted	limit (dBµV)
Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note:

- 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 0.50MHz.

Test Procedures

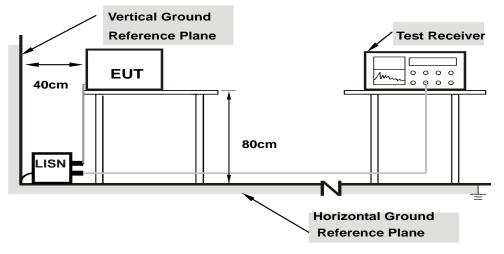
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.
- 2. 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.
- 3. Test data of Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB).
- 4. Test data of Margin(dB) = Result value (dBuV) Limit value (dBuV).
- 5. Test data of Correction Factor (dB) = Insertion loss(dB) + Cable loss(dB).

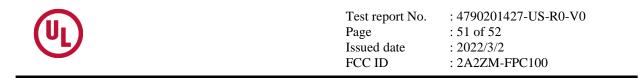
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Test Setup

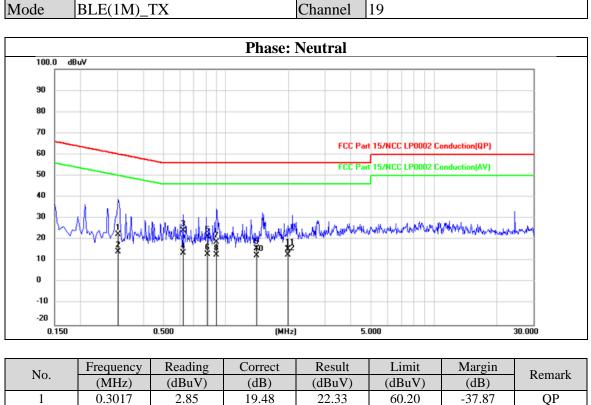


Note: 1.Support units were connected to second LISN.

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



Test Data

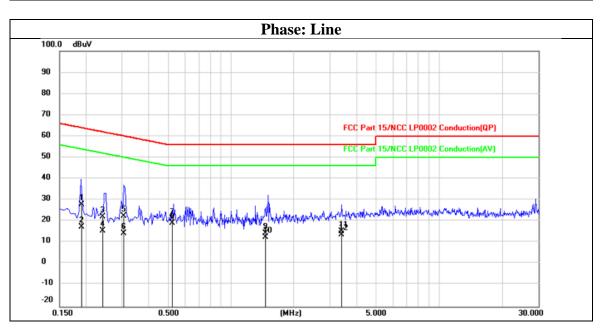


INO.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Remark
1	0.3017	2.85	19.48	22.33	60.20	-37.87	QP
2	0.3017	-5.25	19.48	14.23	50.20	-35.97	AVG
3	0.6221	4.68	19.50	24.18	56.00	-31.82	QP
4	0.6221	-5.84	19.50	13.66	46.00	-32.34	AVG
5	0.8141	2.00	19.51	21.51	56.00	-34.49	QP
6	0.8141	-6.40	19.51	13.11	46.00	-32.89	AVG
7	0.9014	-0.59	19.50	18.91	56.00	-37.09	QP
8	0.9014	-6.56	19.50	12.94	46.00	-33.06	AVG
9	1.4137	-3.76	19.51	15.75	56.00	-40.25	QP
10	1.4137	-6.82	19.51	12.69	46.00	-33.31	AVG
11	1.9907	-3.96	19.52	15.56	56.00	-40.44	QP
12	1.9907	-6.67	19.52	12.85	46.00	-33.15	AVG



Mode BLE(1M)_TX

Channel 19



Na	Frequency	Reading	Correct	Result	Limit	Margin	Dement
No.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Remark
1	0.1913	8.25	19.49	27.74	63.98	-36.24	QP
2	0.1913	-2.24	19.49	17.25	53.98	-36.73	AVG
3	0.2418	2.65	19.49	22.14	62.03	-39.89	QP
4	0.2418	-4.04	19.49	15.45	52.03	-36.58	AVG
5	0.3048	3.11	19.49	22.60	60.11	-37.51	QP
6	0.3048	-5.17	19.49	14.32	50.11	-35.79	AVG
7	0.5212	1.80	19.50	21.30	56.00	-34.70	QP
8	0.5212	-0.48	19.50	19.02	46.00	-26.98	AVG
9	1.4588	-5.19	19.52	14.33	56.00	-41.67	QP
10	1.4588	-6.94	19.52	12.58	46.00	-33.42	AVG
11	3.4170	-4.25	19.56	15.31	56.00	-40.69	QP
12	3.4170	-5.89	19.56	13.67	46.00	-32.33	AVG

END OF REPORT