

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC155606

1 of 45 Page:

FCC Radio Test Report FCC ID: 2ANIE-V08

Original Grant

Report No. TB-FCC155606

WO-SMART TECHNOLOGIES (SHENZHEN) CO.,LTD **Applicant**

Equipment Under Test (EUT)

EUT Name Fitness band with call function(V08)

Model No. **V08**

V08Talk, V08S, EarBand Serial Model No.

firup **Brand Name** 0.00

Receipt Date : 2017-06-27

Test Date 2017-06-28 to 2017-07-05

Issue Date 2017-07-06

Standards FCC Part 15: 2016, Subpart C(15.247)

Test Method : ANSI C63.10: 2013

Conclusions : PASS

In the configuration tested, the EUT complied with the standards specified above,

Test/Witness

Engineer

Approved&

Authorized





This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0

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1. General Information about EUT

1.1 Client Information

Applicant: WO-SMART TECHNOLOGIES (SHENZHEN) CO.,LTD

Address 2C, AB Block, Tianji Building, Tian'an Cyber Park, Chegongmiao,

Futian District, Shenzhen, China

Manufacturer : SHENZHEN HONGKAIJIAWEI TECHNOLOGY GO.,LTD

Address : Floor 3, Buliding 2, Jianlian Industiral Park, Longhua, Shenzhen

1.2 General Description of EUT (Equipment Under Test)

EUT Name	i	Fitness band with call fu	inction(V08)	
Models No.		V08, V08Talk, V08S, Ea	arBand	
Model Difference	-{	All models are identical in the same PCB layout interior structure and electrical circuits, The only difference is shell color and touch button.		
		Operation Frequency:	Bluetooth V3.0+4.0(BLE): 2402MHz~2480MHz	
TO US	d.	Number of Channel:	Bluetooth 4.0(BLE): 40 channels see note(3)	
Product		RF Output Power:	0.047dBm Conducted Power	
Description		Antenna Gain:	2dBi Ceramic Antenna	
		Modulation Type:	GFSK	
		Bit Rate of Transmitter:	1Mbps(GFSK)	
Power Supply	:	DC Voltage supplied by DC Voltage supplied by		
Power Rating	:	DC 5V by USB Cable DC 3.7V by 95mAh Li-ion battery		
Connecting I/O Port(S)): 6	Please refer to the User		

Note:

This Test Report is FCC Part 15.247 for Bluetooth BLE, the test procedure follows the FCC KDB 558074 D01 DTS Means Guidance v04.

- (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (2) Antenna information provided by the applicant.
- (3) Channel List:

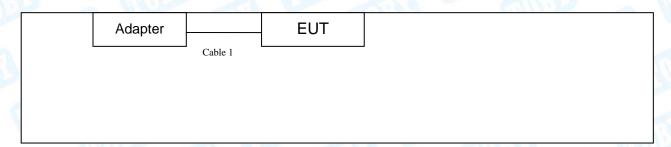


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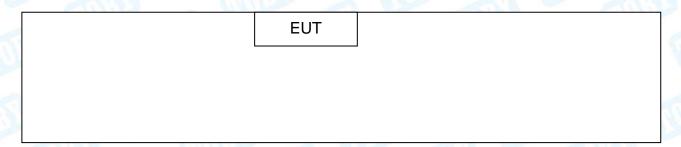
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		

1.3 Block Diagram Showing the Configuration of System Tested

Charging + TX Mode



TX Mode





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1.4 Description of Support Units

	Equipment Information				
Name	Model	FCC ID/VOC	Manufacturer	Used "√"	
AC/DC Adapter	A16-502000		AOHAI	√	
AC/DC Adapter In	nput:AC100-240V 50/6	0Hz 0.5A Output:5V/	/2A	0.00	
		Cable Information			
Number	Shielded Type	Ferrite Core	Length	Note	
Cable 1	YES	NO	0.4M	a William	

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For	Conducted Test
Final Test Mode	Description
Mode 1	Charging + TX Mode

For	Radiated Test
Final Test Mode	Description
Mode 2	TX Mode
Mode 3	TX Mode (Channel 00/20/39)

Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

BLE Mode: GFSK Modulation Transmitting mode.

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a portable unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



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1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF setting.

Test Software Version	N/A		
Frequency	2402 MHz	2442MHz	2480 MHz
BLE GFSK	DEF	DEF	DEF

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Radiated Emission	Level Accuracy:	±4.60 dB
Radiated Effission	9kHz to 30 MHz	±4.00 db
Radiated Emission	Level Accuracy:	±4.40 dB
Radialed Emission	30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy:	
Naulaleu Ellission	Above 1000MHz	±4.20 dB



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1.8 Test Facility

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at:1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.



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2. Test Summary

Standard S	Section	Took Itam	Thursday on the	Domork
FCC	IC	Test Item	Judgment	Remark
15.203		Antenna Requirement	PASS	N/A
15.207(a)	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205&15.247(d)	RSS-GEN 7.2.2	Band-Edge & Unwanted Emissions into Restricted Frequency	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)(3)	RSS 247 5.4 (4)	Conducted Max Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.205, 15.209&15.247(d)	RSS 247 5.5	Transmitter Radiated Spurious &Unwanted Emissions into Restricted Frequency	PASS	N/A

Note: N/A is an abbreviation for Not Applicable.



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3. Test Equipment

Conducte	d Emission Te	st			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
LISN	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
Radiation	Emission Tes	t			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.25, 2017	Mar. 24, 2018
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.25, 2017	Mar. 24, 2018
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.24, 2017	Mar. 23, 2018
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.24, 2017	Mar. 23, 2018
Loop Antenna	Laplace instrument	RF300	0701	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	Sonoma	310N	185903	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	HP	8449B	3008A00849	Mar.25, 2017	Mar. 24, 2018
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.24, 2017	Mar. 23, 2018
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna C	Conducted Em	ission			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Power Meter	Anritsu	ML2495A	25406005	Jul. 22, 2016	Jul. 21, 2017
Power Sensor	Anritsu	ML2411B	25406005	Jul. 22, 2016	Jul. 21, 2017



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4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

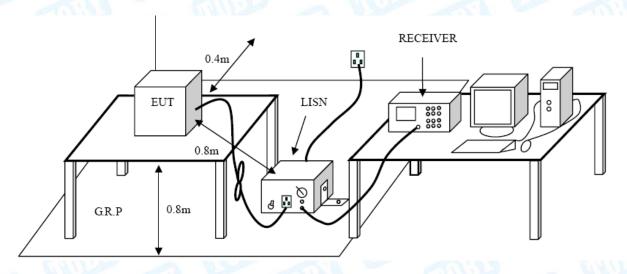
Conducted Emission Test Limit

Tues and the second	Maximum RF Line Voltage (dBμV)		
Frequency	Quasi-peak Level	Average Level	
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.



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I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9 kHz, and the test frequency band is from 0.15MHz to 30MHz.

4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Da5ta

Test data please refer the following pages.



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EUT:	Fitnes	ss band with	call function	(V08)	Model:		V08
Temperature:	25℃	(ALI)	30		Relative		55%
					Humidity:		
Test Voltage:		20V/60 Hz	Alto				
Terminal:	Line			(111)	1100	$a \vee$	
Test Mode:		FSK Mode 2		60		35	1
Remark:	Only	worse case i	is reported				780
40 X X X X X X X X X X X X X X X X X X X	0.5		(MHz)		Mary have been a grand of the first of the f	QP: AVG:	peak AVG
No. Mk. F	req.	Reading Level	Correct Factor	Measure ment	e- Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1 0.1	1500	41.23	9.64	50.87	65.99	-15.12	QP
2 0.1	1500	25.00	9.64	34.64	55.99	-21.35	AVG
3 0.4	4140	31.38	9.58	40.96	57.57	-16.61	QP
4 * 0.4	4140	28.62	9.58	38.20	47.57	-9.37	AVG
5 0.2	2500	31.50	9.61	41.11	61.75	-20.64	QP
6 0.2	2500	17.30	9.61	26.91	51.75	-24.84	AVG
7 0.	1900	10.55	9.65	20.20	64.03	-43.83	QP
8 0.	1900	1.54	9.65	11.19	54.03	-42.84	AVG
9 0.5	5299	-0.33	9.58	9.25	56.00	-46.75	QP
10 0.5	5299	-4.88	9.58	4.70	46.00	-41.30	AVG
11 0.3	3020	27.78	9.57	37.35	60.19	-22.84	QP
12 0.3	3020	13.04	9.57	22.61	50.19	-27.58	AVG
Emission Leve					50.19	-27.58	AVG



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DTZ	MA
KV.	
\mathbf{D}	IU

EUT:	Fitness band wit	th call functio	n(V08)	Model:		V08
Temperature:	25℃	~ W	, ,	Relative Hu	ımidity:	55%
Test Voltage:	AC 120V/60 Hz			W.		
Terminal:	Neutral			Cal	1133	
Test Mode:	TX GFSK Mode	2402 MHz				671
Remark:	Only worse case	e is reported	0.11		A W	
80.0 dBuV						
					QP: AVG:	_
	×					×
30 ************************************	~_^~~~\/\^\\\/		ha <mark>g pa_rati</mark> kagis philiminh	vy4yNXx aa pullaannum	physidery projekty hymricia por	
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my my		$\mathcal{M}\mathcal{M}\mathcal{M}\mathcal{M}$	$\wedge \wedge \wedge \wedge \wedge \wedge \wedge$	Whaterwarm	Palleter Service of the Control of t	peak
						AVG
-20						
0.150	0.5	(MHz)	5	i		30.000
	Reading	Correct	Measur	e-		_
No. Mk. Fre		Factor	ment	Limit	Over	
MH	lz dBuV	dB	dBuV	dBuV	dB	Detector
1 0.25	00 12.90	9.58	22.48	61.75	-39.27	QP
2 0.25	0.28	9.58	9.86	51.75	-41.89	AVG
3 0.62	21.43	9.61	31.04	56.00	-24.96	QP
4 * 0.62	60 13.58	9.61	23.19	46.00	-22.81	AVG
5 1.33	9.66	9.60	19.26	56.00	-36.74	QP
6 1.33	40 0.42	9.60	10.02	46.00	-35.98	AVG
7 3.41	80 12.64	9.66	22.30	56.00	-33.70	QP
8 3.41	80 4.68	9.66	14.34	46.00	-31.66	AVG
9 6.42		9.83	20.88		-39.12	QP
10 6.42		9.83	12.94		-37.06	AVG
11 23.29		10.62	28.34		-31.66	QP
12 23.29		10.62	14.71		-35.29	AVG
.2 20.20	1.00	.0.02			00.20	
Emission Level=	Read Level+ Coi	rect Factor				



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UT:	Fitness	band with	Model:		V08			
emperature:	25 ℃	6.11	10	Relative Humidity:				
est Voltage:	AC 240)V/60 Hz			61	1139		
erminal:	Line		All Or			100		
est Mode:	TX GFS	SK Mode 2	2402 MHz	m	10129	2 /		
Remark:	Only w	orse case	is reported	1		30		
80.0 dBuV								
						QP: AVG:		
	-							
30		A1 X	X		n na Adhan Mahar Mahar da	a Abda bawahila dari ya kata		
Mayor, MW	WHA AM	[~] `````\\\ _{\\\\} \\\\\\\\\\\\\\\\\\\\\\\\\	ord films of the other distributions for	Minum	4444/14/44/14	Net Historian	1	
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- whom we	and June	1 Janahar			Christa Carrier and make make here	Pergelinand major graphy de translitue	AV	
20								
0.150	0.5		(MHz)		5		30.000	
							30.000	
		Reading	Correct I	Measi			30.000	
No. Mk. Fr	req.	Level	Correct I Factor	mer	nt Limit	Over	30.000	
		_			nt Limit	Over		
М	eq.	Level	Factor	mer	nt Limit / dBuV			
1 0.2	req. Hz	Level dBuV	Factor dB	mer dBu\	ht Limit / dBuV 6 60.88	dB	Detector QP	
1 0.2 2 0.2	eq. Hz 779	dBuV 11.87	Factor dB 9.59	mer dBu\ 21.46	t Limit / dBuV 6 60.88 50.88	dB -39.42	Detector QP	
1 0.2 2 0.2 3 0.7	req. Hz 779 779	dBuV 11.87 -1.51	9.59 9.59	mer dBuV 21.46 8.08	t Limit dBuV 6 60.88 8 50.88 3 56.00	dB -39.42 -42.80	Detector QP AVC	
1 0.2 2 0.2 3 0.7 4 * 0.7	req. Hz 779 779	Level dBuV 11.87 -1.51 11.44	9.59 9.59	mer dBuV 21.46 8.08 21.03	ht Limit dBuV 6 60.88 8 50.88 3 56.00 0 46.00	dB -39.42 -42.80 -34.97	QP AV0	
1 0.2 2 0.2 3 0.7 4 * 0.7 5 1.3	req. Hz 779 779 100	Level dBuV 11.87 -1.51 11.44 2.21	9.59 9.59 9.59 9.59	mer dBuV 21.46 8.08 21.03 11.86	ht Limit dBuV 6 60.88 8 50.88 3 56.00 0 46.00 5 56.00	dB -39.42 -42.80 -34.97 -34.20	QP AVO	
1 0.2 2 0.2 3 0.7 4 * 0.7 5 1.3 6 1.3	req. Hz 779 779 100 100	Level dBuV 11.87 -1.51 11.44 2.21 7.85	9.59 9.59 9.59 9.59 9.60	mer dBuV 21.46 8.08 21.03 11.80 17.43	t Limit / dBuV 6 60.88 50.88 3 56.00 46.00 5 56.00 9 46.00	dB -39.42 -42.80 -34.97 -34.20 -38.55	QP AVO QP AVO	
M 1 0.2 2 0.2 3 0.7 4 * 0.7 5 1.3 6 1.3 7 2.9	req. Hz 779 779 100 100 420	Level dBuV 11.87 -1.51 11.44 2.21 7.85 -3.21	9.59 9.59 9.59 9.59 9.60	mer dBuV 21.46 8.08 21.03 11.86 17.45 6.39	t Limit dBuV 6 60.88 50.88 56.00 0 46.00 5 56.00 7 56.00	dB -39.42 -42.80 -34.97 -34.20 -38.55 -39.61	QP AVC QP AVC QP AVC	
1 0.2 2 0.2 3 0.7 4 * 0.7 5 1.3 6 1.3 7 2.9 8 2.9	req. Hz 779 779 100 100 420 420 860	Level dBuV 11.87 -1.51 11.44 2.21 7.85 -3.21 6.61	9.59 9.59 9.59 9.60 9.60 9.66	mer dBuV 21.46 8.08 21.03 11.86 17.45 6.39 16.27	t Limit dBuV 6 60.88 8 50.88 3 56.00 0 46.00 5 56.00 7 56.00 2 46.00	dB -39.42 -42.80 -34.97 -34.20 -38.55 -39.61 -39.73	QP AVG QP AVG	
1 0.2 2 0.2 3 0.7 4 * 0.7 5 1.3 6 1.3 7 2.9 8 2.9 9 6.8	req. Hz 779 779 100 100 420 420 860	Level dBuV 11.87 -1.51 11.44 2.21 7.85 -3.21 6.61 -3.24	9.59 9.59 9.59 9.60 9.60 9.66	mer dBuV 21.46 8.08 21.03 11.80 17.49 6.39 16.27	t Limit dBuV 6 60.88 8 50.88 3 56.00 0 46.00 5 56.00 7 56.00 2 46.00 5 60.00	dB -39.42 -42.80 -34.97 -34.20 -38.55 -39.61 -39.73 -39.58	QP AVC QP AVC QP AVC	
1 0.2 2 0.2 3 0.7 4 * 0.7 5 1.3 6 1.3 7 2.9 8 2.9 9 6.8	req. Hz 779 779 100 100 420 420 860 460	Level dBuV 11.87 -1.51 11.44 2.21 7.85 -3.21 6.61 -3.24 6.09	9.59 9.59 9.59 9.60 9.66 9.66 10.26	mer dBuV 21.46 8.08 21.03 11.80 17.45 6.39 16.23 16.35	t Limit dBuV 6 60.88 8 50.88 3 56.00 0 46.00 5 56.00 7 56.00 2 46.00 5 60.00 9 50.00	dB -39.42 -42.80 -34.97 -34.20 -38.55 -39.61 -39.73 -39.58 -43.65	QP AVG	



COBY		Report No.: Page:	TB-FCC155 16 of 45
MORY		Entry.	3 1100
EUT:	Fitness band with call function(V08)	Model:	V08
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 240V/60 Hz		
Terminal:	Neutral		
Test Mode:	TX GFSK Mode 2402 MHz	TO A	
Remark:	Only worse case is reported	(A:17)	
80.0 dBuV			
		QP: AVG:	

													QP: AVG:	
	-													
		-	J											
	r XI VANDANI	h, MM		MA	A CONTRACTOR OF THE PROPERTY O		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ሳ ሥ ነ ዛላ	_ነ ነለች	ሳሌ/ሴ/	MANAPINAYA	whitalyhad	<i>*</i>
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2580	18.80	9.59	28.39	61.49	-33.10	QP
2		0.2580	9.51	9.59	19.10	51.49	-32.39	AVG
3		0.7340	19.24	9.61	28.85	56.00	-27.15	QP
4	*	0.7340	9.73	9.61	19.34	46.00	-26.66	AVG
5		1.2620	18.20	9.60	27.80	56.00	-28.20	QP
6		1.2620	9.42	9.60	19.02	46.00	-26.98	AVG
7		4.4020	16.10	9.70	25.80	56.00	-30.20	QP
8		4.4020	6.86	9.70	16.56	46.00	-29.44	AVG
9		21.7420	14.92	10.57	25.49	60.00	-34.51	QP
10		21.7420	1.23	10.57	11.80	50.00	-38.20	AVG
11		7.6260	15.76	9.90	25.66	60.00	-34.34	QP
12		7.6260	6.55	9.90	16.45	50.00	-33.55	AVG



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# 5. Radiated Emission Test

## 5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.247(d)

5.1.2 Test Limit

### Radiated Emission Limits (9kHz~1000MHz)

Frequency (MHz	Field Strength (microvolt/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

## Radiated Emission Limit (Above 1000MHz)

Frequency	Distance Meters(at 3m)					
(MHz)	Peak (dBuV/m)	Average (dBuV/m)				
Above 1000	74	54				

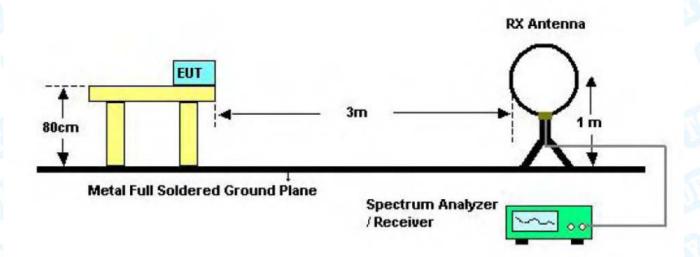
#### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m)

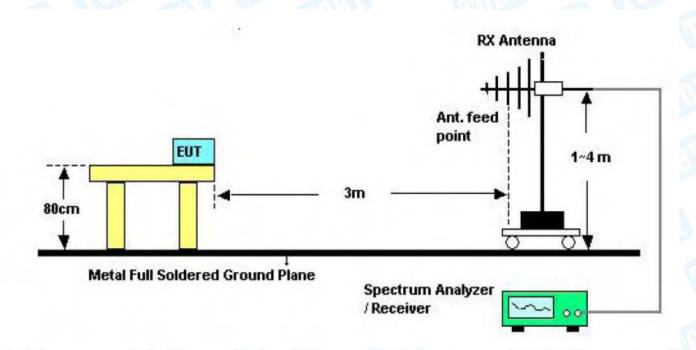


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# 5.2 Test Setup



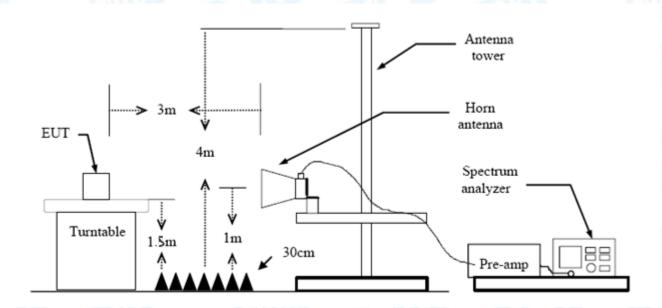
Below 30MHz Test Setup



Below 1000MHz Test Setup



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Above 1GHz Test Setup

#### 5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.



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# 5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

# 5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.



Page: 21 of 45

## 9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB

below the permissible value has no need to be reported.

## 30MHz~1GHz

Test V Ant. F Test N Rema	Mode:					Relative Hum	idity:	55%
Ant. Frest M Rema	Pol. Mode: irk:	Horiz BLE	ontal TX 2402 Mo					
Rema	Mode: rk:	BLE	TX 2402 Mo			TORI		To the second
80.0	rk:							
80.0		Only	worse case	is reported				
	dBuV/m							
30								
30								
30								
30						(RF)FCC 15C	3M Radiation Margin -6	
30								
30								6 *
						5 Share was a state of the same was a state of the same of the sam		استالاالمالينان
-	1			3	4	when a serve they will would	water water property and the second	
WV	Markey Markey	2 X,		Mary Mary Mary	and the same of th	May Miran		
	"Noon"	W. W	Mitter de la Martin de la Company	PANIA PINA				
-20								
30.00	0 40 !	50 60 7	0 80	(MHz)	30	0 400 500	600 700	1000.000
			Reading	Correct	Measure		_	
No.	Mk.	req.	Level	Factor	ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detecto
1	39	.1616	35.20	-19.47	15.73	40.00	-24.27	QP
2	61	.9951	32.76	-24.24	8.52	40.00	-31.48	QP
3	134	1.0882	33.95	-22.14	11.81	43.50	-31.69	QP
4	230	0.0985	32.53	-18.92	13.61	46.00	-32.39	QP
5	443	3.2943	34.88	-12.41	22.47	46.00	-23.53	QP
6	* 875	5.2470	39.19	-5.46	33.73	46.00	-12.27	QP
*:Maxi	mum data	x:Over limi	t !:over margir	 1				



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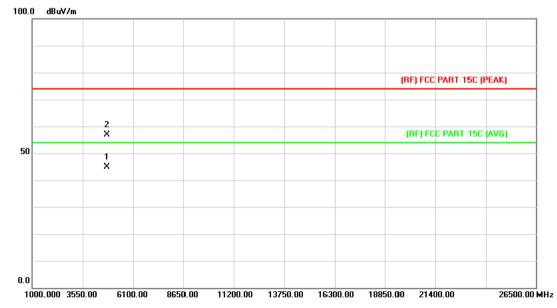
EU'	T:			Fitne	ess band	with call function	n(V08)	Mod	VC	V08		
Ten	npe	ratu	re:	25℃	6	TO THE		Rela	tive Hur	nidity:	55	5%
Tes	t V	oltaç	ge:	DC 3	3.7V				GU	1177		
Ant	t. P	ol.		Verti	cal	2 AMO			1 6			
Tes	t M	ode	:	BLE	TX 2402	Mode			2	a 1	MARK	
Rei	mar	k:		Only	worse ca	se is reported				13		
80.0	) dl	3uV/m										_
									(RF)FCC	15C 3M Rad		٦
										Marg	jin -6 dB	H
												ᅫ
30												_
									المعادية الم	Maria Maria	morning photos	-14.
	mm.	LA			2 3 X X	4 ×	5 ¥		المهجري أفك الإحالي المالي	M and the same		
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				0.045								_
-20												
30	0.000	40	) 50	60	70 80	(MHz)		300	400	500 600	700 10	000.C
					Readi	ng Correct	Measu	ıre-				
N	lo.	Mk.	. F	req.	Leve	l Factor	men	ıt	Limit	Ove	r	
			N	ИHz	dBuV	dB/m	dBuV	/m	dBuV/m	dB	Det	tect
			49.	5328	40.1	7 -24.02	16.1	5	40.00	-23.8	35 (	QΡ
1			68.	8721	38.5	7 -23.65	14.9	92	40.00	-25.0	08 (	QΡ
1						6 -23.09	15.5	7	40.00	-24.4	13 (	QΡ
1 2 3			83.	2298	38.6	0 -23.09	10.0					20
				2298 .4866			13.3	37	43.50	-30.	13 (	QΡ
3			165		34.2	5 -20.88			43.50 46.00			QP
3		*	165 230	.4866	34.2 34.0	5 -20.88 5 -18.92	13.3	3		-30.8	37 (	



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## **Above 1GHz**

EUT:	Fitness band with call function(V08)	Model:	V08						
Temperature:	25℃	Relative Humidity:	55%						
Test Voltage:	DC 3.7V								
Ant. Pol.	Horizontal								
Test Mode:	BLE Mode TX 2402 MHz								
Remark:	No report for the emission which more than 10 dB below the								
	prescribed limit.								
	No report for the emission which mor	e than 10 dB below the							



No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4803.529	31.55	13.44	44.99	54.00	-9.01	AVG
2		4803.880	43.47	13.44	56.91	74.00	-17.09	peak



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EUT:	Fitness band with call function(V08)	Model:	V08
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		TO D
Test Mode:	BLE Mode TX 2402 MHz		VI.
Remark:	No report for the emission which mor prescribed limit.	e than 10 dB below the	
400 0 ID 144	procenice min.		



No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4803.136	31.41	13.44	44.85	74.00	-29.15	peak
2	*	4804.543	43.48	13.44	56.92	74.00	-17.08	peak



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EUT:	Fitness band with call function(V08)	Model:	V08
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	BLE Mode TX 2442 MHz	N P	
Remark:	No report for the emission which mor	e than 10 dB below the	9 1
	prescribed limit.	a William	TO N
· <del></del>			

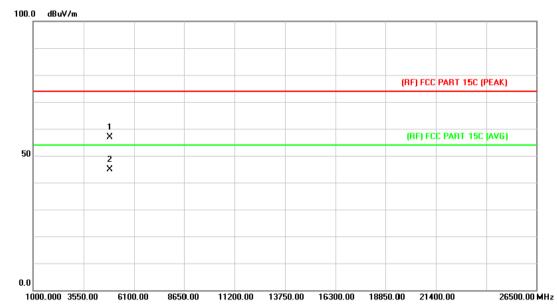


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4883.811	31.98	13.92	45.90	74.00	-28.10	peak
2	*	4884.615	43.27	13.92	57.19	54.00	3.19	AVG



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EUT:	Fitness band with call function(V08)	Model:	V08
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	BLE Mode TX 2442 MHz		
Remark:	No report for the emission which mor	e than 10 dB below the	e
	prescribed limit.	a 130	
i			

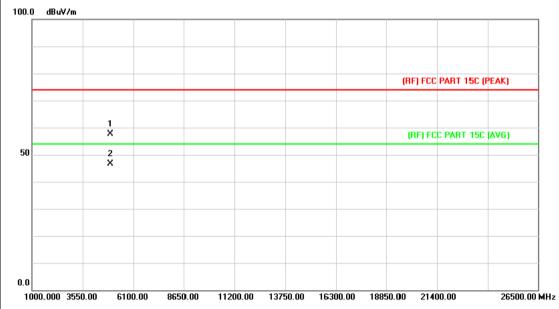


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4883.862	43.05	13.92	56.97	74.00	-17.03	peak
2	*	4883.913	30.93	13.92	44.85	54.00	-9.15	AVG



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EUT:	Fitness band with call function(V08)	Model:	V08
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	BLE Mode TX 2480 MHz	N Co	
Remark:	No report for the emission which mor	e than 10 dB below the	• 1
	prescribed limit.	a 13	A DE



No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4959.805	43.39	14.36	57.75	74.00	-16.25	peak
2	*	4961.165	32.25	14.38	46.63	54.00	-7.37	AVG



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EUT:	Fitness band with call function(V08)	Model:	V08
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	BLE Mode TX 2480 MHz		
Remark:	No report for the emission which mor prescribed limit.	e than 10 dB below the	



No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4960.141	31.92	14.36	46.28	54.00	-7.72	AVG
2		4960.288	44.26	14.36	58.62	74.00	-15.38	peak



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# 6. Restricted Bands Requirement

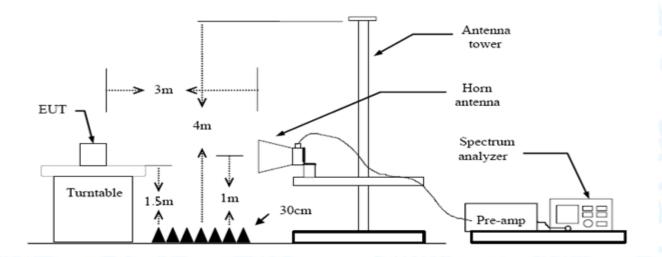
#### 6.1 Test Standard and Limit

6.1.1 Test Standard FCC Part 15.247(d) FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Distance Meters(at 3m)				
Band (MHz)	Peak (dBuV/m)	Average (dBuV/m)			
2310 ~2390	74	54			
2483.5 ~2500	74	54			

## 6.2 Test Setup



#### 6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector



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mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

### 6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

#### 6.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

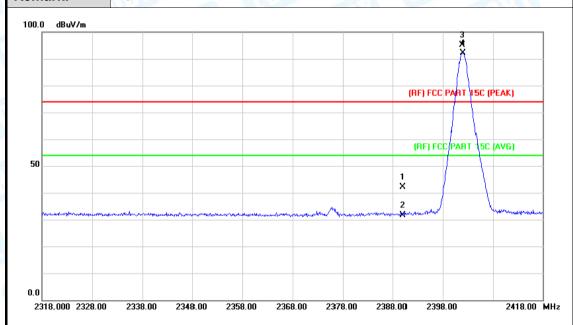
Test data please refer the following pages.



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# (1) Radiation Test

EUT:	Fitness band with call function(V08)	V08				
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Ant. Pol.	Horizontal	William I	HILL			
Test Mode:	BLE Mode TX 2402 MHz	-Mills				
Remark:	N/A	A VIII				



No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	41.40	0.77	42.17	74.00	-31.83	peak
2		2390.000	30.88	0.77	31.65	54.00	-22.35	AVG
3	Χ	2401.900	94.33	0.82	95.15	Fundamenta	I Frequency	peak
4	*	2402.100	91.34	0.82	92.16	Fundamental	I Frequency	AVG



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EUT: Temperature:			Fitness band with call function(V08) 25°C			n(V08)	Model:		V08
							Relative Hun	55%	
Test Voltage: DC 3.7V						an san sa			
			Vertic	Vertical					
			BLE	Mode TX 2	2402 MHz	(m)	1000	a 1	MAG
Ren	nark:		N/A	Alle		1 60	CITE OF	33	
100.0	) dBuV/n	1							
								3 34	
								χ̈́	
							(RF) FCC	PART 15C	(PEAK)
								1	
							(DE) EC	C PART 150	(AVC)
50							(HF) FC	L PART USC	, [AVG]
							1 X	/	
	.414.10						2	\	
			3111						
0.0									
	318.000 23	20.00	2338.00	2348.00	2358.00 2368.00		2388.00 2398		2418.00 MH
NL	o. Mk.	Fre	ea.	Reading Level	Correct Factor	Measur ment	e- Limit	Ove	г
INC				LOVOI	i dotoi	mont			
INC		MH	łz	dBuV	dB/m	dBuV/n	n dBuV/m	dB	Detector
		MH 2390.		dBuV 41.92	dB/m 0.77	dBuV/n 42.69		-31.3	
1			000				74.00		31 peak
1 2 3	X	2390.	000	41.92	0.77	42.69	74.00 7 54.00	-31.3 -22.2	23 AVG



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EUT: Fit			Fitne	ess band w	ith call functi	ion(V08)	Model:	V08	
Temp	perat	ure:	25℃		130		Relative Humidity:	55%	
Test	Volta	ge:	DC	DC 3.7V					
Ant.	Pol.		Hori	zontal	A PARTY				
Test	Mode	<b>9</b> :	BLE	Mode TX 2	2480 MHz	11111		N. L.	
Rem	ark:		N/A	A STATE		A Real			
100.0	dBuV/	m							
50		**************************************		when the second section and the section and the second section and the second section and the section and the second section and the section and	many discount from the second from the	and the standard and an analysis and an analys	(RF) FCC PART 15C (PE		
0.0 2 <b>4</b> 63	3.000 2	473.00 2	2483.00	2493.00 25	503.00 2513.00	2523.00	2533.00 2543.00	2563.00 MHz	
No	. Mk	. Fre	eq.	Reading Level	Correct Factor	Measur	e- Limit Over		
			_						
		MH	z	dBuV	dB/m	dBuV/m	n dBuV/m dB	Detector	
1	X	MH 2479.		dBuV 94.58	dB/m 1.15	dBuV/m 95.73			
	X *		700				Fundamental Frequenc	y peak	
1 2 3		2479.	700 900	94.58	1.15	95.73	Fundamental Frequenc	y peak y AVG	



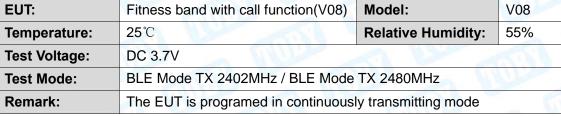
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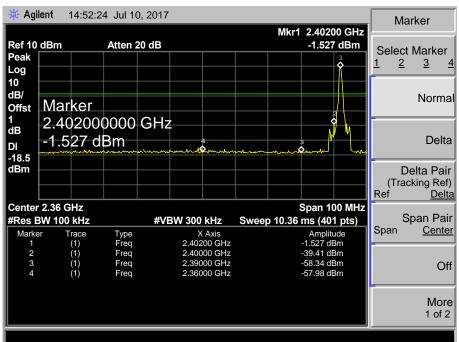
EUT	UT: Fitness band w			ss band with	n call function	n(V08)	inction(V08) Model:	
Tem	peratu	ıre:	25℃	610		_ (	Relative Humidity:	55%
Test	Volta	ge:	DC 3.	7V		CIMIS .		
Ant.	Pol.		Vertic	TEN.				
Test	Mode	):	BLE N	Mode TX 24	80 MHz	611		THE PARTY OF
Rem	ark:		N/A	MARINE		180	10133	
100.0	) dBuV/	m						
50	And a second development of		3			Monoral plant of the same of t	(RF) FCC PART 15C	
0.0								
24	63.000 2	473.00	2483.00		503.00 2513.00	2523.00	2533.00 2543.00	2563.00 MHz
				Reading	COMPCI	Measiii		
No	. Mk.	Fr	eq.	Reading Level	Correct Factor	Measur ment	1 : :	er
No	. Mk.		eq.	_			Limit Ove	Per Detector
No 1	X Mk.		Hz	Level	Factor	ment	Limit Ove	Detector
		M	Hz .800	Level	Factor dB/m	ment dBuV/r	Limit Ove	Detector ncy peak
1	X	M 2479	Hz .800 .900	Level dBuV 84.40	Factor dB/m 1.15	ment dBuV/r 85.55	Limit Ove  m dBuV/m dB  Fundamental Frequer  Fundamental Frequer	Detector ney peak ney AVG

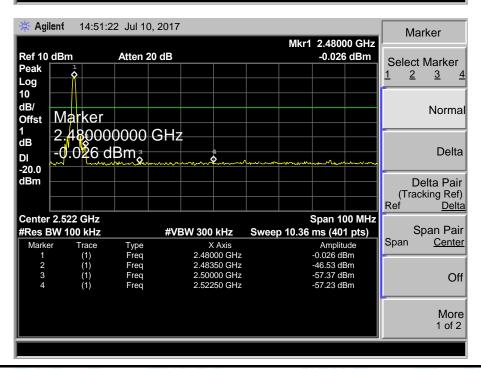


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### (2) Conducted Test









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# 7. Bandwidth Test

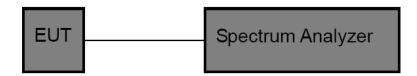
#### 7.1 Test Standard and Limit

7.1.1 Test Standard FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC P	FCC Part 15 Subpart C(15.247)/RSS-247						
Test Item	Test Item Limit Frequency Rang						
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5					

# 7.2 Test Setup



#### 7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

# 7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.



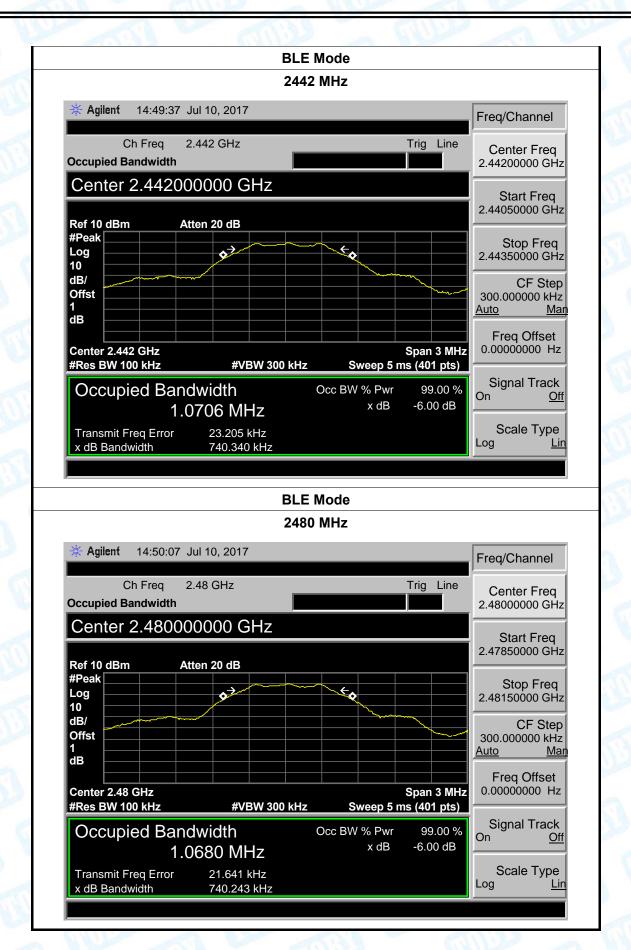
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# 7.5 Test Data

UT:	Fitne	ss band with call functi	on(V08)	Model:		V08
emperature:	25℃	25℃ Re			nidity:	55%
est Voltage:	: Voltage: DC 3.7V					
est Mode:	BLE	TX Mode	10	an'	35	
Channel freque (MHz)	ency	6dB Bandwidt (kHz)	h	99% Band ^o (kHz)		Limit (kHz)
2402		732.011		1057.4	4	, ,
2442		740.340		1070.6	<u> </u>	>=500
2480		740.243		1068.0	)	
		BLE M	ode	I		1
						annel
Occupied Band	dwidth	2.402 GHz 00000 GHz		Trig Line	Cente 2.402000	er Freq 000 GHz
Center 2.  Ref 10 dBm #Peak Log 10	dwidth		€0	Trig Line	Cente 2.402000 Star 2.400500	r Freq 2000 GHz t Freq 2000 GHz
Center 2.  Ref 10 dBm #Peak Log	dwidth	00000 GHz	<b>E</b>	Trig Line	Cente 2.402000 Star 2.400500 Sto 2.403500  300.000 Auto	er Freq 2000 GHz et Freq 2000 GHz p Freq 2000 GHz CF Step 2000 kHz 2000 kHz 2000 kHz
Center 2.  Ref 10 dBm #Peak Log 10 dB/ Offst 1	4020	00000 GHz		Trig Line Span 3 MHz 5 ms (401 pts)	Cente 2.402000  Star 2.400500  Sto 2.403500  C 300.000  Auto  Freq 0.00000	t Freq 2000 GHz t Freq 2000 GHz p Freq 2000 GHz CF Step 2000 kHz 2000 kHz 2000 kHz 2000 kHz 2000 Hz
Center 2.  Ref 10 dBm #Peak Log 10 dB/ Offst 1 dB  Center 2.402 G	40200 A SHz kHz d Ban 1.	00000 GHz Atten 20 dB #VBW 300 kHz		Span 3 MHz 5 5 ms (401 pts)	Cente 2.402000  Star 2.400500  Sto 2.403500  Gao.0000  Auto  Freq 0.000000  Signa On	r Freq 2000 GHz  t Freq 2000 GHz  p Freq 2000 GHz  CF Step 2000 kHz



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# 8. Peak Output Power Test

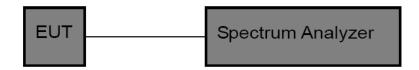
### 8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)(3)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-247							
Test Item	Test Item Limit Frequency Range(MHz)						
Peak Output Power	1 Watt or 30 dBm	2400~2483.5					

# 8.2 Test Setup



#### 8.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to section 9.1.1 of KDB 558074 D01 DTS Meas Guidance v04.

- (1) Set the RBW≥DTS Bandwidth
- (2) Set VBW≥3*RBW
- (3) Set Span≥3*RBW
- (4) Sweep time=auto
- (5) Detector= peak
- (6) Trace mode= maxhold.
- (7) Allow trace to fully stabilize, and then use peak marker function to determine the peak amplitude level.

# 8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.



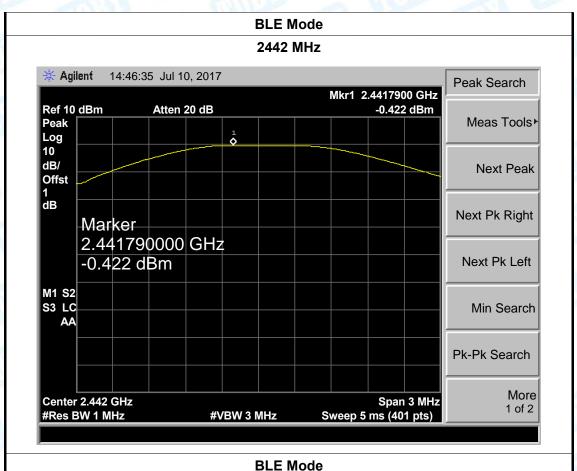
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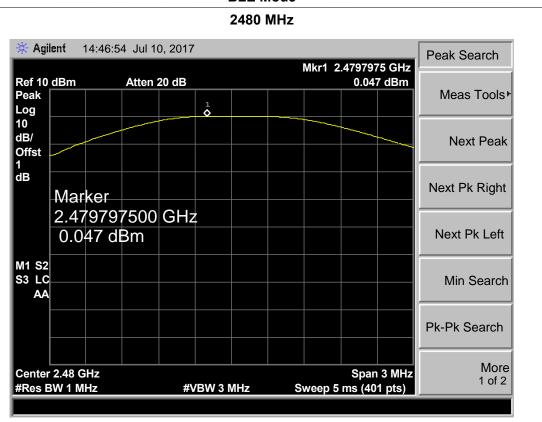
# 8.5 Test Data

IT:	Fitness ba	and with call	I function(V08)	Model:		V08	
mperature:	25℃	25℃		Relative H	lumidity:	55%	
st Voltage:	DC 3.7V	DC 3.7V					
st Mode:	BLE TX M	lode			130		
nannel freq	uency (MHz)	Test F	Result (dBm)		Limit (dBm)		
240	)2		-1.446				
24	12		-0.422		30		
248	30		0.047				
		ВІ	LE Mode	1			
		24	402 MHz				
Ref 10 dBm Peak Log 10 dB/ Offst	Atten 20		1	-1.446 dBm		Tools* Peak	
1 dB	arker				Next Pk	Right	
	02315000	5HZ				( Left	
2.4	446 dBm				Next Pl	Leit	
2.4	446 dBm					Search	
2.4 -1. M1 S2 S3 LC	446 dBm					Search	



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# 9. Power Spectral Density Test

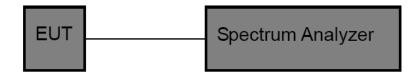
#### 9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)						
Test Item Limit Frequency Range(MHz)						
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5				

## 9.2 Test Setup



#### 9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v04.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequenyc.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz(5) Set the VBW to: 10 kHz
- (6) Detector: peak(7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

# 9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Midle and high channel for the test.



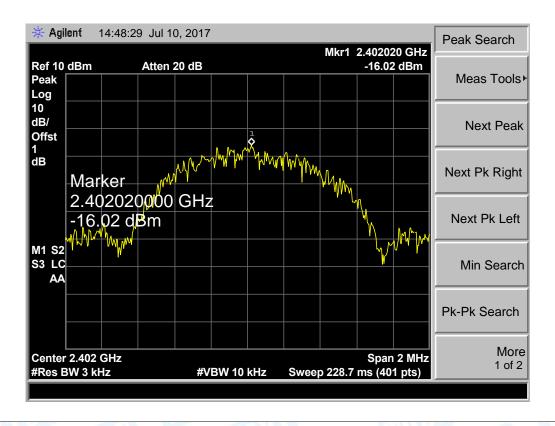
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### 9.5 Test Data

	EUT:	Fitness ba	and with call function(V08)	Model:	V08
	Temperature:	25℃		Relative Humidity:	55%
	Test Voltage:	DC 3.7V	ari Tra	U.M	
	Test Mode:	BLE TX M	1ode		
	Channel Frequ	uency	Power Density	Limit	Result
	(MHz)		(dBm)	(dBm)	Result
	2402 2442		-16.02		
			-15.05	-15.05	
	2480		-14.48		
				•	•

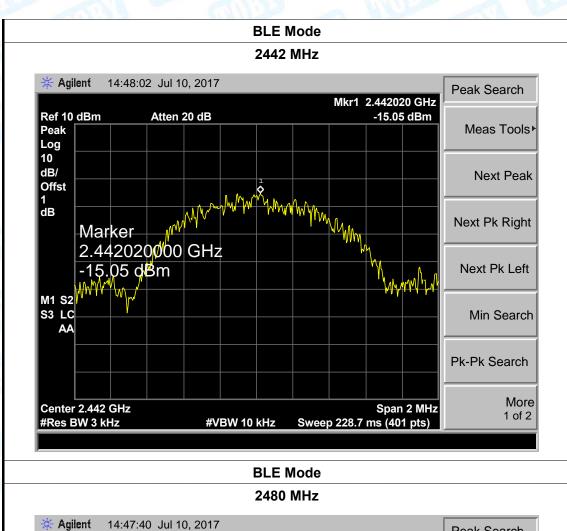
#### **BLE Mode**

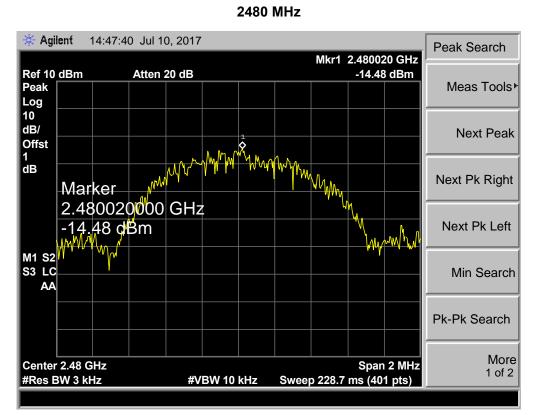
#### 2402 MHz





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# 10. Antenna Requirement

# 10.1 Standard Requirement

10.1.1 Standard FCC Part 15.203

#### 10.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 2dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

#### 10.3 Result

The EUT antenna is a Ceramic Antenna. It complies with the standard requirement.

Antenna Type						
⊠Permanent attached antenna						
Unique connector antenna	The same					
☐Professional installation antenna	O THE					

----END OF REPORT-----