

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC152213

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FCC Radio Test Report FCC ID: 2ALTC-V07

Original Grant

Report No. TB-FCC152213

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

Equipment Under Test (EUT)

EUT Name SPORT BP Heart Rate Monitor

Model No. V07

Serial No. V07S

Brand Name

Receipt Date 2017-03-28

Test Date 2017-03-29 to 2017-04-12

Issue Date 2017-04-13

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

IVAN SU fay tai.

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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TOBY

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1. General Information about EUT

1.1 Client Information

Applicant: SHENZHEN WO-SMART TECHNOLOGIES CO., LTD

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

Futian District, Shenzhen, China

Manufacturer: SHENZHEN WO-SMART TECHNOLOGIES CO., LTD

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

Futian District, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	SPORT BP Heart Rate I	Monitor		
Models No.	-	V07, V07S			
Model Difference	8	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.			
		Operation Frequency:	Bluetooth 4.0(BLE): 2402MHz~2480MHz		
		Number of Channel: Bluetooth 4.0(BLE): 40 channels se			
Product		RF Output Power: -10.08 dBm Conducted Power			
Description		Antenna Gain: 2.12 dBi Ceramic Antenna			
		Modulation Type:	GFSK		
		Bit Rate of Transmitter:	1Mbps(GFSK)		
Power Supply	:	DC Voltage Supplied by DC Supply by the Batter	DC Voltage Supplied by the Host System. DC Supply by the Battery.		
Power Rating					
Connecting I/O Port(S)		Please refer to the User's Manual			

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:

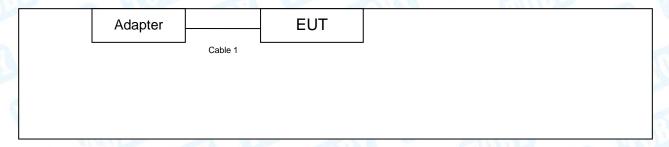


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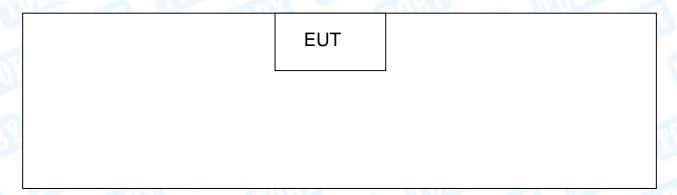
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	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

USB Charging Mode



TX Mode





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1.4 Description of Support Units

	E	quipment Informat	tion	
Name	Model	FCC ID/VOC	Manufacturer	Used "√"
AC/DC Adapter	TEKA012	VOC	TEKA	1
AC/DC Adapter:	Input:100~240V, 50/60	OHz, 0.2A. Output: 5V	′, 1A	WOD
		Cable Information		
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	NO	NO	0.4M	3 110

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	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	Nrfgo studio		
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 Effilssion	9kHz to 30 MHz	±4.00 ub
Radiated Emission	Level Accuracy:	±4.40 dB
Radiated Effilssion	30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy:	±4,20 dB
Radiated Effilssion	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	Third area and	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, 201
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 25, 2017	Mar. 24, 201
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 25, 2017	Mar. 24, 201
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 25, 2017	Mar. 24, 201
Loop Antenna	Laplace instrument	RF300	0701	Mar. 25, 2017	Mar. 24, 201
Pre-amplifier	Sonoma	310N	185903	Mar. 24, 2017	Mar. 23, 201
Pre-amplifier	HP	8449B	3008A00849	Mar. 29, 2017	Mar. 28, 201
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 29, 2017	Mar. 28, 201
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna (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

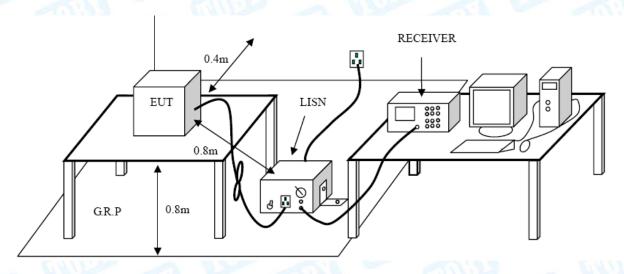
Conducted Emission Test Limit

Eronio nos	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:	SPORT	FBP Heart I	Rate Monito	r Mode	el:		V07		
Temperature:	25℃		10	Relat	idity:	55%			
Test Voltage:	AC 120)V/60 Hz	1000	1	6.1	1133			
Terminal:	Line		A HOL						
Test Mode:	Chargii	ng with TX (GFSK Mode	2402 MHz		a \	MA		
Remark:	Only w	orse case is	reported	-		33			
90.0 dBuV									
						QP: AVG:			
40 / / /	X X	MANA MANA	wayan kanamanin	de the market the new					
VWJV)/ W/\ _\ \\	Luch Albania	.Alm. a	March In	W				
1 A 1 A 1	1/6/	NAVA anon	months where	anti-tree -	Madhermanikahara	المراجعة	pea		
h m n n	AM AA	A MANAGER	A Charles Co	demand participation of the language	horacon morning	Mary James	AV0		
	0.5		(MU-)				20,000		
0.150	0.5		(MHz)	5			30.000		
0.150		Reading	Correct	Measure-	Limit	Over	30.000		
0.150 No. Mk.	Freq.	Level	Correct Factor	Measure- ment	Limit	Over			
0.150 No. Mk.	Freq.	Level dBuV	Correct Factor	Measure- ment	dBu∀	dB	Detector		
0.150 No. Mk.	Freq. MHz 2900	dBuV 30.11	Correct Factor dB	Measure- ment dBuV 40.20	dBu√ 60.52	dB -20.32	Detector QP		
0.150 No. Mk. 1 0. 2 0.	Freq. MHz 2900 2900	dBuV 30.11 18.91	Correct Factor dB 10.09	Measure- ment dBuV 40.20 29.00	dBuV 60.52 50.52	dB -20.32 -21.52	Detector QP AVG		
0.150 No. Mk. 1 0. 2 0. 3 0.	Freq. MHz 2900 2900 4140	dBuV 30.11 18.91 25.46	Correct Factor dB 10.09 10.09	Measure- ment dBuV 40.20 29.00 35.51	dBuV 60.52 50.52 57.57	dB -20.32 -21.52 -22.06	Detector QP AVG QP		
0.150 No. Mk. 1 0. 2 0. 3 0. 4 0.	Freq. MHz 2900 2900 4140 4140	dBuV 30.11 18.91 25.46 12.60	Correct Factor dB 10.09 10.09 10.05	Measure- ment dBuV 40.20 29.00 35.51 22.65	dBuV 60.52 50.52 57.57 47.57	dB -20.32 -21.52 -22.06 -24.92	Detector QP AVG QP AVG		
0.150 No. Mk. 1 0. 2 0. 3 0. 4 0. 5 * 0.	Freq. MHz 2900 2900 4140 4140 4860	dBuV 30.11 18.91 25.46 12.60 38.81	Correct Factor dB 10.09 10.09 10.05 10.05	Measure- ment dBuV 40.20 29.00 35.51 22.65 48.83	dBuV 60.52 50.52 57.57 47.57 56.24	dB -20.32 -21.52 -22.06 -24.92 -7.41	Detector QP AVG QP AVG		
No. Mk. 1 0. 2 0. 3 0. 4 0. 5 * 0.	Freq. MHz 2900 2900 4140 4140	dBuV 30.11 18.91 25.46 12.60	Correct Factor dB 10.09 10.09 10.05	Measure- ment dBuV 40.20 29.00 35.51 22.65	dBuV 60.52 50.52 57.57 47.57 56.24	dB -20.32 -21.52 -22.06 -24.92	Detector QP AVG QP AVG		
0.150 No. Mk. 1 0. 2 0. 3 0. 4 0. 5 * 0. 6 0.	Freq. MHz 2900 2900 4140 4140 4860	dBuV 30.11 18.91 25.46 12.60 38.81	Correct Factor dB 10.09 10.09 10.05 10.05	Measure- ment dBuV 40.20 29.00 35.51 22.65 48.83	dBuV 60.52 50.52 57.57 47.57 56.24 46.24	dB -20.32 -21.52 -22.06 -24.92 -7.41	Detector QP AVG QP AVG		
0.150 No. Mk. 1 0. 2 0. 3 0. 4 0. 5 * 0. 6 0. 7 0.	Freq. MHz 2900 2900 4140 4140 4860 4860	dBuV 30.11 18.91 25.46 12.60 38.81 25.46	Correct Factor dB 10.09 10.09 10.05 10.05 10.02	Measure- ment dBuV 40.20 29.00 35.51 22.65 48.83 35.48	dBuV 60.52 50.52 57.57 47.57 56.24 46.24 56.00	dB -20.32 -21.52 -22.06 -24.92 -7.41 -10.76	Detector QP AVG QP AVG QP AVG		
0.150 No. Mk. 1 0. 2 0. 3 0. 4 0. 5 * 0. 6 0. 7 0. 8 0.	Freq. MHz 2900 2900 4140 4140 4860 4860 6260	dBuV 30.11 18.91 25.46 12.60 38.81 25.46 27.63	Correct Factor dB 10.09 10.09 10.05 10.05 10.02 10.02	Measure- ment dBuV 40.20 29.00 35.51 22.65 48.83 35.48 37.65	dBuV 60.52 50.52 57.57 47.57 56.24 46.24 56.00 46.00	dB -20.32 -21.52 -22.06 -24.92 -7.41 -10.76 -18.35	Detector QP AVG QP AVG QP AVG QP		
0.150 No. Mk. 1 0. 2 0. 3 0. 4 0. 5 * 0. 6 0. 7 0. 8 0. 9 0.	Freq. MHz 2900 2900 4140 4140 4860 4860 6260	dBuV 30.11 18.91 25.46 12.60 38.81 25.46 27.63 13.62	Correct Factor dB 10.09 10.05 10.05 10.02 10.02 10.02	Measure- ment dBuV 40.20 29.00 35.51 22.65 48.83 35.48 37.65 23.64	dBuV 60.52 50.52 57.57 47.57 56.24 46.24 56.00 46.00	dB -20.32 -21.52 -22.06 -24.92 -7.41 -10.76 -18.35 -22.36	Detector QP AVG QP AVG QP AVG AVG		
0.150 No. Mk. 1	Freq. MHz 2900 2900 4140 4140 4860 4860 6260 6260 7940	Level dBuV 30.11 18.91 25.46 12.60 38.81 25.46 27.63 13.62 24.55	Correct Factor dB 10.09 10.05 10.05 10.02 10.02 10.02 10.02 10.06	Measure-ment dBuV 40.20 29.00 35.51 22.65 48.83 35.48 37.65 23.64 34.61	dBuV 60.52 50.52 57.57 47.57 56.24 46.24 56.00 46.00	dB -20.32 -21.52 -22.06 -24.92 -7.41 -10.76 -18.35 -22.36 -21.39 -24.03	Detector QP AVG QP AVG QP AVG QP AVG QP AVG		



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EUT:	SPORT BP Heart	Rate Monitor	Model	:	V07				
Temperature:	25℃		Relativ	Relative Humidity:					
Test Voltage:	AC 120V/60 Hz		GHI		N. San				
Terminal:	Neutral			WHO !					
Test Mode:	Charging with TX	GFSK Mode	2402 MHz						
Remark:	Only worse case	is reported	THE	-	ALL DESCRIPTION OF THE PROPERTY OF THE PROPERT				
90.0 dBuV				QF	.				
				A\					
	×								
a A MA	M. u & h. Lib. annex	and the second second							
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	M	1.11		Martin my may make the	peak				
	1 1 Ardania Marketis	man of water by popular and of the man of the	meritare proportion of the state of the stat	a manufacture manu	AVG				
-10 0.150	0.5	(MHz)	5		30.000				
	Pooding	Correct	Measure-						
No. Mk. F	Reading req. Level	Factor	ment	Limit Ov	er				
N	ИНz dBuV	dB	dBuV	dBuV dE	B Detector				
1 0.2	2420 32.78	10.11	42.89	62.02 -19.1	13 QP				
2 0.2	2420 20.19	10.11	30.30	52.02 -21.7	72 AVG				
3 0.3	3020 33.88	10.09	43.97	60.19 -16.2					
	8020 20.10	10.09	30.19	50.19 -20.0					
	3580 30.55	10.07	40.62	58.77 -18.					
	3580 30.35 3580 16.35	10.07	26.42	48.77 -22.3					
	860 38.88	10.02	48.90	56.24 -7.3					
	860 23.16	10.02	33.18	46.24 -13.0					
	8860 27.41	10.02	37.43	56.00 -18.					
10 0.6	860 11.01	10.02	21.03	46.00 -24.9	97 AVG				
11 1.2	2140 26.95	10.14	37.09	56.00 -18.9	91 QP				
12 1.2	2140 11.75	10.14	21.89	46.00 -24.	11 AVG				
Emission Level=	Read Level+ Corr	ect Factor							



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	DIT
	KY.
U	n T
	0

	SPOR	SPORT BP Heart Rate Monitor Model:								
emperature:	25℃	•								
est Voltage:	AC 24	0V/60 Hz	1000		1100	133				
Terminal:	Line		MAG		63		M			
est Mode:	Chargi	ng with TX C	FSK Mode 2	2402 MHz		2 M	All leave			
Remark:	Only w	orse case is	reported							
90.0 dBuV										
						QP: AVG:				
40		X X X X X X X X X X X X X X X X X X X	Afrikana kalakana	TYP/MPWWww.	L					
M. M. M. M.	W. III	MAN AND AND AND AND AND AND AND AND AND A	of reflechmental prosect properties	Make Marie a market recorder	Marie and a series and a series and a	and the second second	pea			
10										
0.150	0.5		(MHz)	5			30.000			
No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over				
	MHz	dBuV	dB	dBuV	dBu∀	dB	Detecto			
1	0.3020	28.72	10.09	38.81	60.19	-21.38	QP			
2	0.3020	15.45	10.09	25.54	50.19	-24.65	AVC			
2 3 *	0.3020 0.4740	15.45 37.63	10.09 10.03	25.54 47.66		-24.65 -8.78	AV0 QP			
						-8.78	QP			
3 *	0.4740	37.63	10.03	47.66	56.44	-8.78 -13.63	QP			
3 *	0.4740 0.4740	37.63 22.78	10.03 10.03	47.66 32.81	56.44 46.44	-8.78 -13.63 -15.56	QP AV0 QP			
3 * 4 5	0.4740 0.4740 0.6180	37.63 22.78 30.42	10.03 10.03 10.02	47.66 32.81 40.44	56.44 46.44 56.00	-8.78 -13.63 -15.56 -18.21	AVC			
3 * 4 5	0.4740 0.4740 0.6180 0.6180	37.63 22.78 30.42 17.77	10.03 10.03 10.02 10.02	47.66 32.81 40.44 27.79	56.44 46.44 56.00 46.00	-8.78 -13.63 -15.56 -18.21 -15.43	QP AVO QP			
3 * 4 5 6 7	0.4740 0.4740 0.6180 0.6180 0.9220	37.63 22.78 30.42 17.77 30.45	10.03 10.03 10.02 10.02 10.12	47.66 32.81 40.44 27.79 40.57	56.44 46.44 - 56.00 - 46.00 - 56.00 -	-8.78 -13.63 -15.56 -18.21 -15.43 -19.49	QP AVC QP AVC			
3 * 4 5 6 7 8	0.4740 0.4740 0.6180 0.6180 0.9220 0.9220	37.63 22.78 30.42 17.77 30.45 16.39	10.03 10.03 10.02 10.02 10.12 10.12	47.66 32.81 40.44 27.79 40.57 26.51	56.44 46.44 - 56.00 - 46.00 - 46.00 -	-8.78 -13.63 -15.56 -18.21 -15.43 -19.49 -20.28	QP AVC QP AVC QP			
3 * 4 5 6 7 8 9	0.4740 0.4740 0.6180 0.6180 0.9220 0.9220 1.5660	37.63 22.78 30.42 17.77 30.45 16.39 25.62	10.03 10.03 10.02 10.02 10.12 10.12 10.10	47.66 32.81 40.44 27.79 40.57 26.51 35.72	56.44 46.44 - 56.00 - 46.00 - 56.00 - 46.00 -	-8.78 -13.63 -15.56 -18.21 -15.43 -19.49 -20.28	QP AVC QP AVC QP			



16 of 45 Page:

EUT:	SPOR	RT BP Heart	Rate	Madalı		1/07	V07		
EUI:	Monito	or	13	Model:		V07	MATTER		
Temperature:	25℃	Agree	-50	Relative	Humidity:	55%	ò		
Test Voltage:	AC 24	10V/60 Hz	Mile		I FR		ATTEN A		
Terminal:	Neutra	al		d man		1	Millian		
Test Mode:			GFSK Mod	e 2402 MHz	1		1		
Remark:	Only v	worse case	is reported	1	13:00				
90.0 dBuV						QP:			
						AVG:			
	*								
X X A	~ * - / */								
40 14	LAMA, Aliki		MANIMA ALLENA	Mhighboulapppaan	\h.				
A. 71. A M	Mark Mark	·			Maria La care				
N/W MM M	diameter what	person property to the second	house the say of property	war and the state of the same of the state o	a mondiment	wakilinin dan barkarik	peak		
					a second manufactures and or the	hall-are-server	AVG		
-10									
0.150	0.5		(MHz)	5			30.000		
		Reading	Correct	Measure-					
No. Mk.	Freq.	Level	Factor	ment	Limit	Over			
	MHz	dBuV	dB	dBu∀	dBuV	dB	Detector		
1 0	.2340	31.78	10.11	41.89	62.30 -	20.41	QP		
2 0	.2340	16.74	10.11	26.85	52.30 -	25.45	AVG		
3 0	.2940	32.93	10.09	43.02	60.41 -	17.39	QP		
4 0	.2940	16.96	10.09	27.05	50.41 -	23.36	AVG		
5 0	.4100	32.87	10.05	42.92	57.65 -	14.73	QP		
6 0	.4100	18.93	10.05	28.98	47.65 -	18.67	AVG		
7 * 0	.4820	37.94	10.03	47.97	56.30	-8.33	QP		
8 0	.4820	20.75	10.03	30.78	46.30 -	15.52	AVG		
9 0	.8059	31.61	10.07	41.68	56.00 -	14.32	QP		
10 0	.8059	15.35	10.07	25.42	46.00 -	20.58	AVG		
-	.1500	27.79	10.14	37.93	56.00 -	18.07	QP		
	.1500	9.95	10.14	20.09	46.00 -		AVG		
Emission Level	= Read L	.evel+ Corr	ect Factor						



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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					

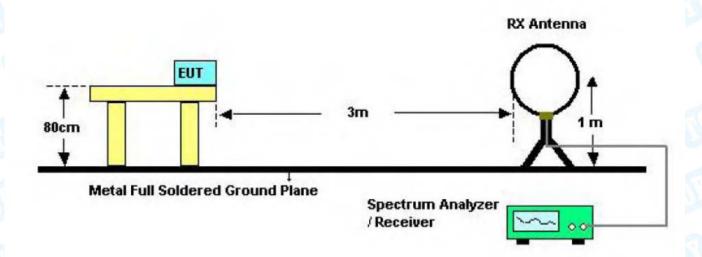
Note:

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

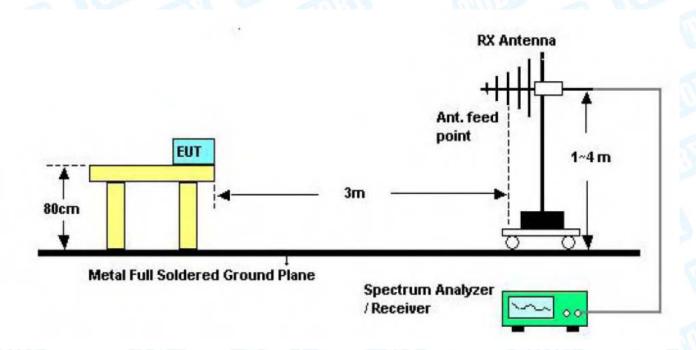


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5.2 Test Setup



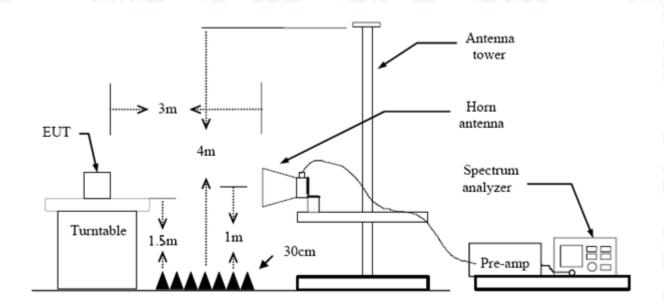
Below 30MHz Test Setup



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.



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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

		SPORT BP Heart Rate Monitor Model:								V07		
Γemperatι	ıre:	25℃		3		F	Relative	Humid	ity:	55%		
Test Volta	ge:	DC 3	3.7V		Charles .		1	1			N	
Ant. Pol.		Horiz	zonta	al		111	1999		1	Min in		
Test Mode):	BLE	TX 2	2402 M	ode	18.30			9			
Remark:		Only	wors	se case	e is reported	1	1	The same			1	
80.0 dBuV/i	m											
30	~Makhaniya	1	nahenad	2 ALLANDA MARINE		5	6 X	(RF)FC		4 Radiation	G dB	
-20 30.000	40 50	0 60	70 80	D	(MHz)		300	400	500	600 700	1000.00	
			R	eading	g Correct	Mea	asure-					
No. M	k. F	req.		leadin Level	g Correct Factor		asure- ent	Limit	С	ver		
No. M		req.			•	m		Limit dBuV/n		over dB	Detecto	
No. M	1			Level	Factor	m dB	ent		n		Detecto	
	60.	MHz	;	Level dBu∀	Factor dB/m	m dB	ent uV/m	dBuV/n	n) -3	dB		
1	60. 106	MHz 0691	7	dBuV 33.78	Factor dB/m -24.60	m dB 9	ent uV/m	dBuV/n	n) -3) -3	dB 30.82	peak	
1 2	60. 106 129	MHz 0691 .7587	7	dBuV 33.78 29.62	Factor dB/m -24.60 -21.85	m dB 9 7	ent uV/m .18	dBuV/n 40.00 43.50) -3) -3) -2	dB 30.82 35.73	peak	
1 2 3	60. 106 129 144	MHz 0691 5.7587	7 2	dBuV 33.78 29.62 41.07	Factor dB/m -24.60 -21.85 -22.12 -21.47	m dB 9 7 18	ent uV/m .18 7.77 3.95	dBuV/n 40.00 43.50 43.50	n -3) -3) -2) -1	dB 30.82 35.73 24.55	peak peak peak	



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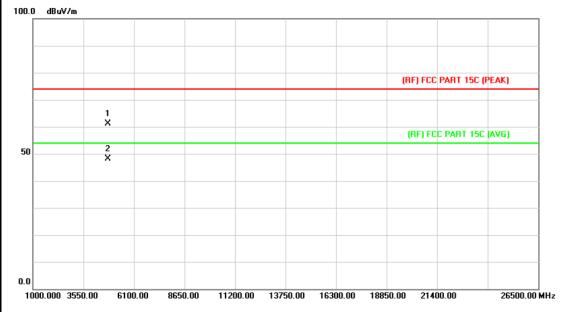
EUT	:		SI								r M	Model:					V07			
Tem	peratu	ıre:	25	5℃		C			3		R	Relative Humidity:				55%				
Test	t Volta	ge:	D	C 3	.7V	1				1	18	100			Call .	W				
۹nt.	Pol.		Ve	ertic	cal				1111									4		
Test	t Mode):	ВІ	LE	TX :	240	2 Mc	ode												
Ren	nark:		0	nly	IOW	se	case	is	reporte	ed	, V			đ						V
80.0	dBuV/π	1																		_
														O	RF)FCC	15C 3			1 1 6	
							+										Mar	gin -6	dB	H
-						_[\perp				_				3					4
30						_			2						×		-		4 56 X XX	
				1 X					, <u>X</u>							سارا	No. of Participations	(Ann./H	X.,,,PX.	,44
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																				1
-						+	+										+			+
-20 -30.	.000 4	10	50 6	i 00	70 8	0			(MH:	2]		:	300	4	00	500	600	700	1000	_ 0.00
N	lo. Mł	,	Fred			Rea Lev	ding	J	Corre		Mea	isure ent	9-	Lir	nit	(Ove	r		
	IO. IVII	۱.)I		uV/m							Data	-4-
			MHz			dB			dB/m						uV/n		dB		Dete	
1		60	0.917	/6		44.	.58		-24.52	2	20	0.06		40	0.00	-	19.	94	pe	ak
2		14	2.82	43		44.	.99		-21.6°	1	23	3.38		43	3.50	-	20.	12	pe	ak
3	*	46	2.34	55		43.	.85		-11.54	4	32	2.31		46	5.00	-	13.	69	pe	ak
4		79	8.97	97		30.	.91		-5.30		25	5.61		46	5.00	-	20.	39	pe	ak
5		89	6.99	65		30	.83		-3.72		27	7.11		46	3.00	_	18.	89	pe	
6							.02										19.			
		93	2.27	10		JU.	.02		-3.28	•	20	5.74		40	6.00	_	13.	20	pe	aĸ
		. ,																		
^:IVla	aximum d	iata	x:Ove	rıım	ιτ !	:over	r margi	ın												



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Above 1GHz

SPORT BP Heart Rate Monitor Model: V07									
25℃ Relative Humidity: 55%									
DC 3.7V									
Horizontal		CONTRACTOR OF THE PARTY OF THE							
BLE Mode TX 2402 MHz									
No report for the emission which	more than 10 dB below	w the							
prescribed limit.									
	25℃ DC 3.7V Horizontal BLE Mode TX 2402 MHz No report for the emission which	25°C Relative Humidity: DC 3.7V Horizontal BLE Mode TX 2402 MHz No report for the emission which more than 10 dB below							

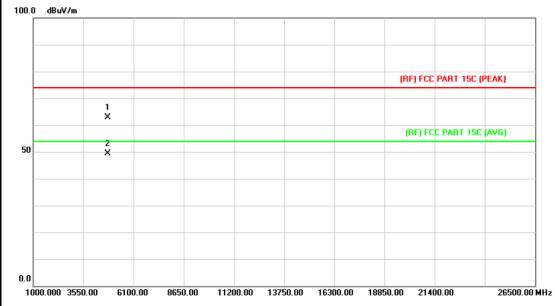


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4803.400	47.80	13.44	61.24	74.00	-12.76	peak
2	*	4805.206	34.78	13.45	48.23	54.00	-5.77	AVG



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EUT:	SPORT BP Heart Rate Monitor	Model:	V07			
Temperature:	25℃ Relative Humidity: 55%					
Test Voltage:	DC 3.7V	DC 3.7V				
Ant. Pol.	Vertical					
Test Mode:	BLE Mode TX 2402 MHz		Allen			
Remark:	No report for the emission which	No report for the emission which more than 10 dB below the				
	prescribed limit.					



No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4805.041	49.31	13.45	62.76	74.00	-11.24	peak
2	*	4805.071	35.83	13.45	49.28	54.00	-4.72	AVG



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EUT:	SPORT BP Heart Rate Monitor	Model:	V07			
Temperature:	25°C Relative Humidity: 55°					
Test Voltage:	DC 3.7V	DC 3.7V				
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	BLE Mode TX 2442 MHz		Miller			
Remark:		No report for the emission which more than 10 dB below the				
	prescribed limit.					

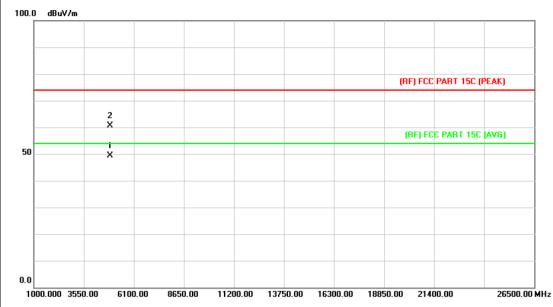


No	. Mk	. Freq.			Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4884.267	46.37	13.92	60.29	74.00	-13.71	peak
2	*	4884.755	35.83	13.92	49.75	54.00	-4.25	AVG



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EUT:	SPORT BP Heart Rate Monitor	Model:	V07			
Temperature:	25℃	25℃ Relative Humidity: 55%				
Test Voltage:	DC 3.7V	DC 3.7V				
Ant. Pol.	Vertical					
Test Mode:	BLE Mode TX 2442 MHz		HALL			
Remark:	No report for the emission which prescribed limit.	No report for the emission which more than 10 dB below the prescribed limit.				

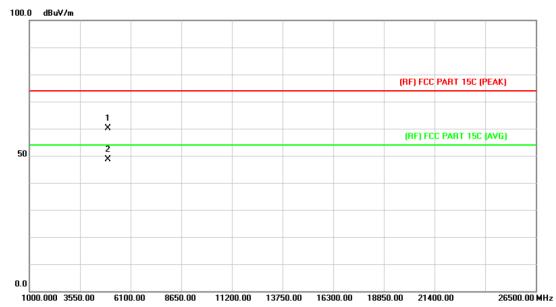


N	lo.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4883.275	35.37	13.91	49.28	54.00	-4.72	AVG
2			4884.297	46.65	13.92	60.57	74.00	-13.43	peak



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EUT:	SPORT BP Heart Rate Monitor	Model:	V07				
Temperature:	25℃ Relative Humidity: 55%						
Test Voltage:	DC 3.7V	DC 3.7V					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	BLE Mode TX 2480 MHz		HISTORY.				
Remark:	No report for the emission which	No report for the emission which more than 10 dB below the					
	prescribed limit.	prescribed limit.					

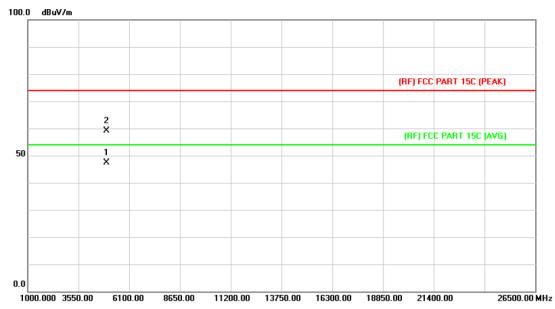


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4959.889	45.65	14.36	60.01	74.00	-13.99	peak
2	*	4959.904	34.27	14.36	48.63	54.00	-5.37	AVG



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B 1 41 11 1114 5504				
Relative Humidity: 55%				
DC 3.7V				
Vertical				
0 MHz				
No report for the emission which more than 10 dB below the prescribed limit.				



	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4960.027	33.06	14.36	47.42	54.00	-6.58	AVG
2	2		4960.075	44.76	14.36	59.12	74.00	-14.88	peak



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6. Restricted Bands Requirement

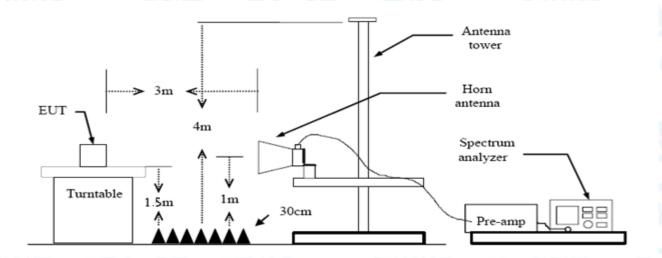
6.1 Test Standard and Limit

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

6.1.2 Test Limit

Restricted Frequency	Distance Me	eters(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.

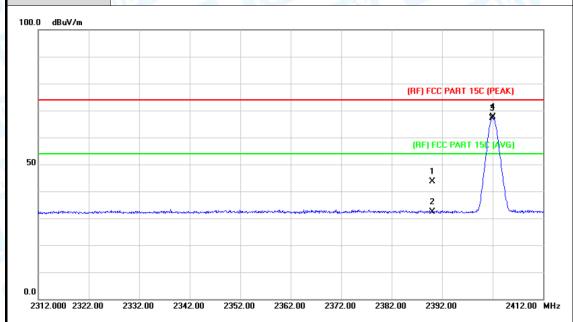
Test data please refer the following pages.



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(1) Radiation Test

EUT:	SPORT BP Heart Rate Monitor	Model:	V07		
Temperature:	25℃	Relative Humidity:	55%		
Test Voltage:	DC 3.7V				
Ant. Pol.	Horizontal		RELEASE		
Test Mode:	BLE Mode TX 2402 MHz				
Remark:	N/A	7	1		

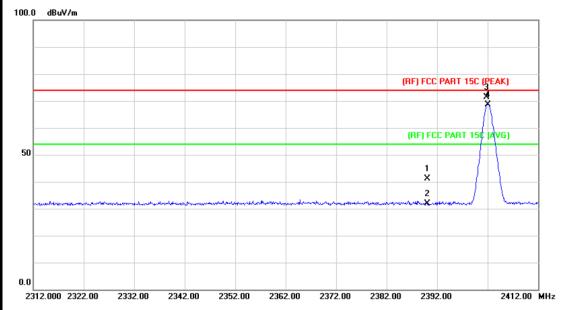


No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	42.91	0.77	43.68	74.00	-30.32	peak
2		2390.000	31.62	0.77	32.39	54.00	-21.61	AVG
3	*	2401.900	66.41	0.82	67.23	- Fundamental	Frequency	AVG
4		2402.000	66.92	0.82	67.74	Fundamental	Frequency	peak



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EUT:	SPORT BP Heart Rate Monitor Model: V07					
Temperature:	25℃ Relative Humidity: 55%					
Test Voltage:	DC 3.7V					
Ant. Pol.	Vertical					
Test Mode:	BLE Mode TX 2402 MHz	BLE Mode TX 2402 MHz				
Remark:	N/A					

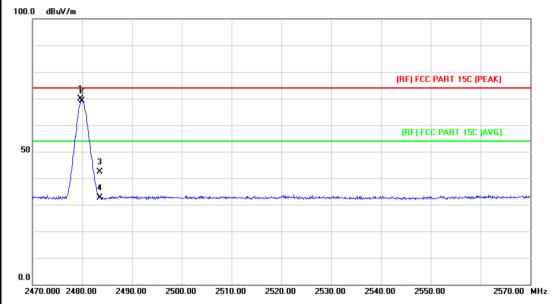


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	40.36	0.77	41.13	74.00	-32.87	peak
2		2390.000	31.07	0.77	31.84	54.00	-22.16	AVG
3		2401.800	70.46	0.82	71.28	Fundamental	Frequency	peak
4	*	2402.100	67.88	0.82	68.70	Fundamental	Frequency	AVG



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EUT:	SPORT BP Heart Rate Monitor Model: V07				
Temperature:	25℃ Relative Humidity: 55%				
Test Voltage:	DC 3.7V				
Ant. Pol.	Horizontal				
Test Mode:	BLE Mode TX 2480 MHz				
Remark:	N/A				



No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2479.700	68.70	1.15	69.85	Fundamental	Frequency	peak
2	*	2479.900	67.95	1.15	69.10	Fundamental	Frequency	AVG
3		2483.500	41.11	1.17	42.28	74.00	-31.72	peak
4		2483.500	31.52	1.17	32.69	54.00	-21.31	AVG



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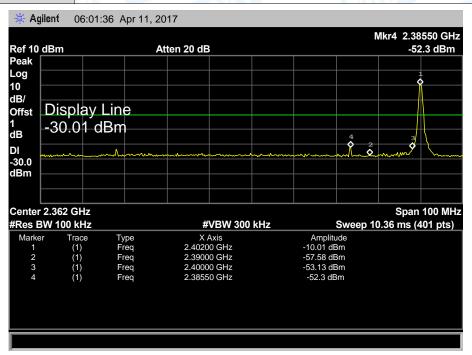
			SPOF	RT BP H	leart l	Rate Mo	nitor	Mod	el:			V07	1	
[em	perature	e: 2	25℃	P. Commercial Commerci		13		Rela	tive	Humi	dity:	55%	ó	
est	Voltage	: I	DC 3.7V					133						
۸nt.	Pol.	,	Vertical						150					
est	Mode:	ı	3LE N	Mode T	X 248	0 MHz		COM!	W	9		N N	MAR	
Rem	ark:	ı	N/A	AR	la comme		31	60		60	M			
100.0	dBuV/m													
														7
			-											1
-	12		_							(BF) F	CC PAR	IT 15C (PE/	AKI	-
	Å									(,			,	-
										(RF)	FCC PA	RT 15C (A)	VG)	-
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No	o. Mk.	Fre		Read Lev	el	Corre-Facto		/leasu ment	t	Limi dBu\		Over	Det	ecto
No 1			lz	Lev	el V	Facto		ment	m	dBu\	//m		Det	
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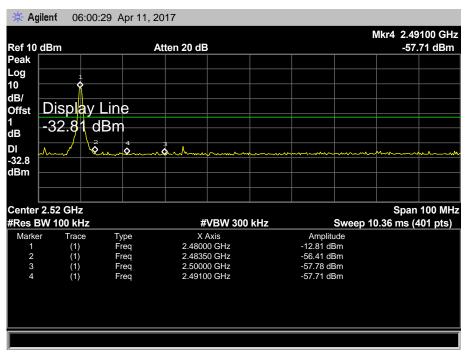


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(2) Conducted Test

EUT:	SPORT BP Heart Rate Monitor	Model:	V07				
Temperature:	25℃	Relative Humidity: 55%					
Test Voltage:	DC 3.7V	DC 3.7V					
Test Mode:	BLE Mode TX 2402MHz / BLE Mode TX 2480MHz						
Remark:	The EUT is programed in continuously transmitting mode						







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7. Bandwidth Test

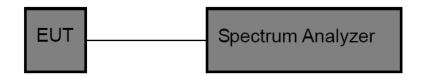
7.1 Test Standard and Limit

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

7.1.2 Test Limit

FCC	FCC Part 15 Subpart C(15.247)/RSS-247							
Test Item	Test Item Limit Frequency Range(MHz)							
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.



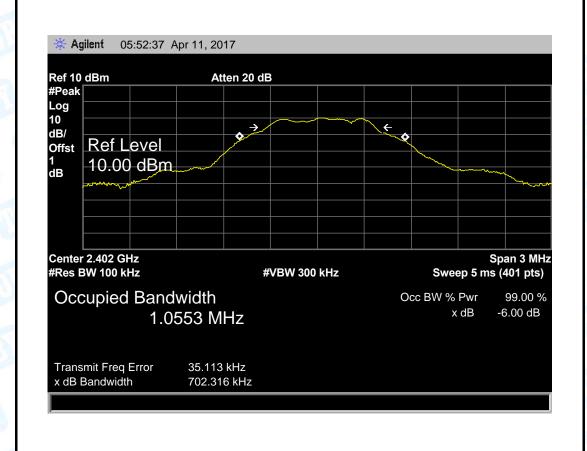
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7.5 Test Data

EUT:	SPO	RT BP Heart Rate Monitor	Model:	V07
Temperature:	25℃		Relative Humidity:	55%
Test Voltage:	DC 3	.7V	William I	A Brown
Test Mode: BLE TX Mode			WILL STATE OF THE PARTY OF THE	0
Channel freque	ncy	6dB Bandwidth	99% Bandwidth	Limit
(MHz)		(kHz)	(kHz)	(kHz)
2402		702.316	1055.30	
2442		710.246	1051.60	>=500
2480		713.307	1205.00	
		PLE Mode		•

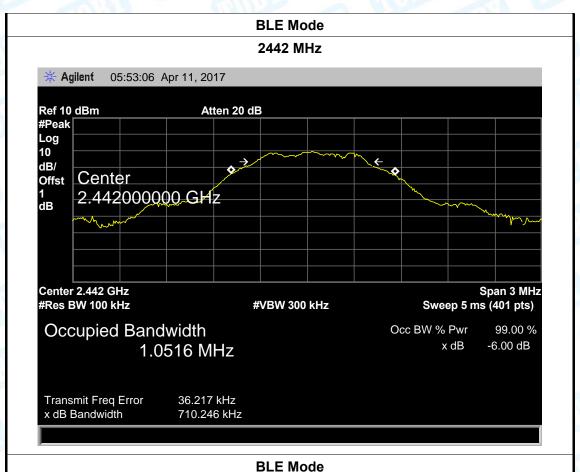
BLE Mode

2402 MHz





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2480 MHz 🔆 Agilent 05:53:46 Apr 11, 2017 Ref 10 dBm Atten 20 dB #Peak Log 10 dB/ Center Offst 1 dB 2.480000000 GHz Center 2.48 GHz Span 3 MHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 5 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB 1.2050 MHz x dB Transmit Freq Error 38.105 kHz x dB Bandwidth 713.307 kHz



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8. Peak Output Power Test

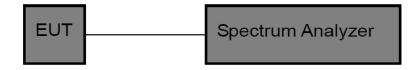
8.1 Test Standard and Limit

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 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.

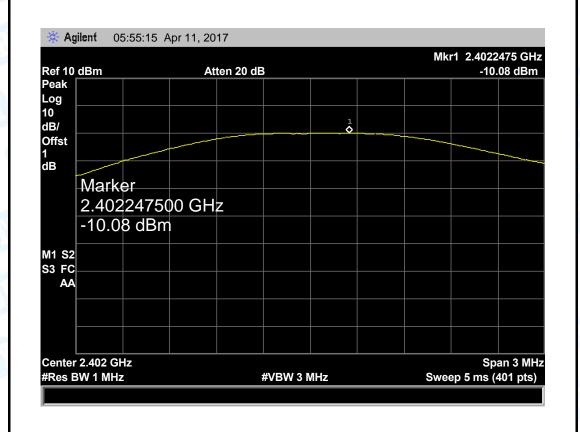


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8.5 Test Data

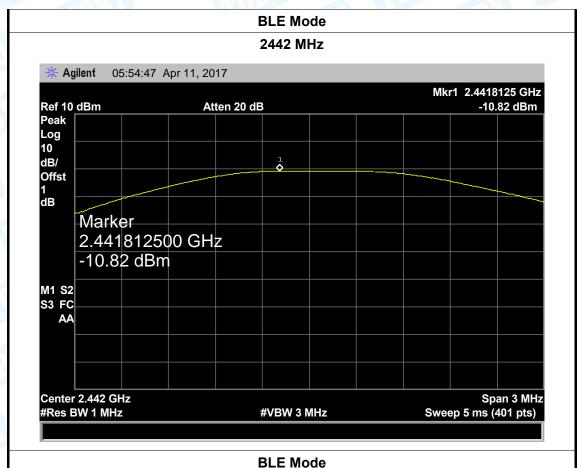
and the second s					
EUT:	SPORT B	P Heart Rate Monitor	Mode	l:	V07
Temperature:	25℃	7 100	Relat	ive Humidity:	55%
Test Voltage:	DC 3.7V				A Branch
Test Mode:	BLE TX M	lode		CIN S	- B
Channel frequen	cy (MHz)	Test Result (dBm)	Limit (d	dBm)
2402		-10.08			
2442		-10.82		30	
2480		-12.96			
		BLE Mode			

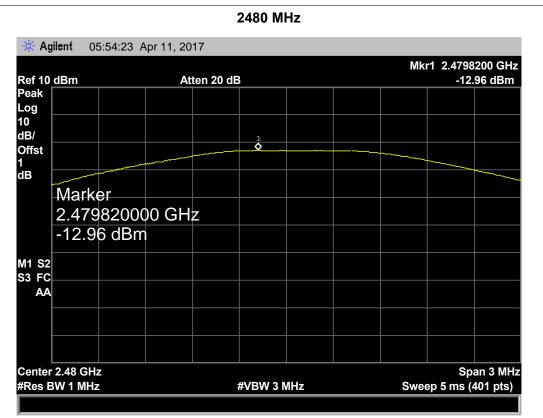
2402 MHz





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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.



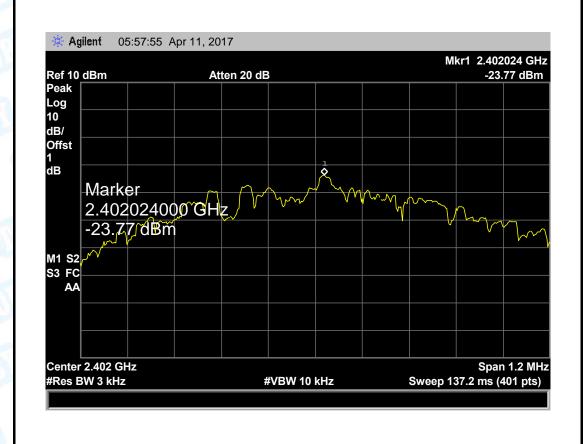
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9.5 Test Data

EUT:	SPORT BP Heart Rate Monitor		Model:	V07
Temperature:	25℃		Relative Humidity:	55%
Test Voltage:	DC 3.7V			
Test Mode:	BLE TX Mode			
Channel Frequency		Power Density	Limit	Result
(MHz)		(dBm)	(dBm)	Result
2402		-23.77		
2442		-22.95	8	PASS
2480		-26.24		
		DI E Mada	•	•

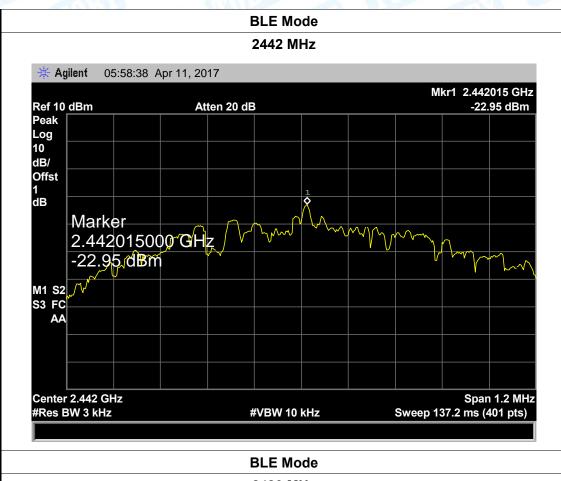
BLE Mode

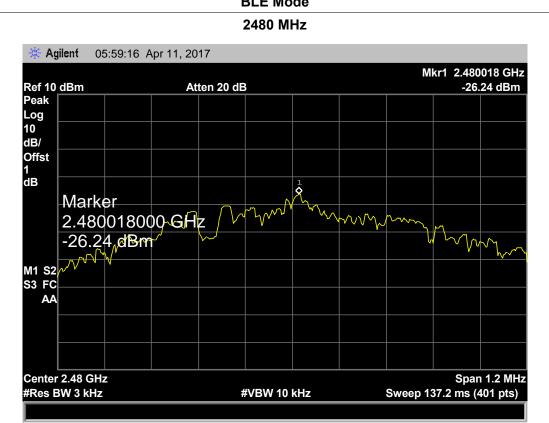
2402 MHz





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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 2.12dBi, 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
W.	□ Unique connector antenna
	☐ Professional installation antenna

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