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TEST REPORT

Product : Digital Blood Pressure Monitor

Trade mark : microlife

Model/Type reference : BP3MV1-3B, BP3MV1-3BHM

Serial Number : N/A

Report Number : EED32M00176801

FCC ID : U7I-BP3MV1-3B

Date of Issue : Jul. 29, 2020

Test Standards : 47 CFR Part 15 Subpart C

Test result : PASS

Prepared for:

Microlife Corporation 9F, 431, RuiGuang Road, NeiHu, Taipei 11492, Taiwan

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

Compiled by:

Sunlight Sun

an (lucy

Reviewed by:

Date:

Jok Yang

Sunlight Sun

Jul. 29, 2020

Sam Chuang

Check No.: 3970311015















2 Version

Version No.	Date	Description
00	Jul. 29, 2020	Original













































































3 Test Summary

Test Item	Toot Boquiroment	Test method	Result
restitem	Test Requirement	rest method	Result
Antenna Requirement	47 CFR Part 15Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15Subpart C Section 15.207	ANSI C63.10-2013	PASS
Conducted Peak Output Power	47 CFR Part 15Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013	PASS
Power Spectral Density	47 CFR Part 15Subpart C Section 15.247 (e)	ANSI C63.10-2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
Radiated Spurious Emissions	47 CFR Part 15Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS

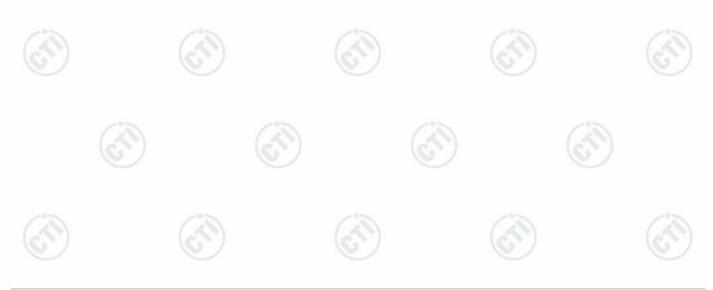
Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

The tested sample(s) and the sample information are provided by the client.

Model No.: BP3MV1-3B, BP3MV1-3BHM

Only the model BP3MV1-3B was tested, their electrical circuit design, layout, components used, internal wiring, software and outer decoration are identical. Only the model numbers are different. The tested product has two model numbers, BP3MV1-3BHM is the market model number, BP3MV1-38 is the factory internal Model number.







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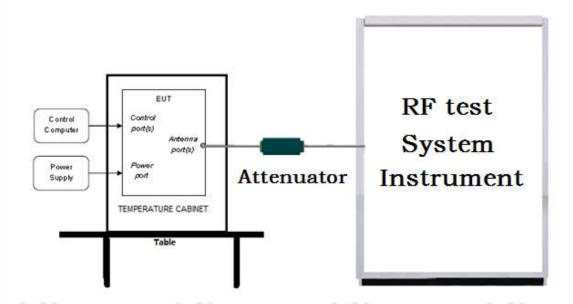


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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

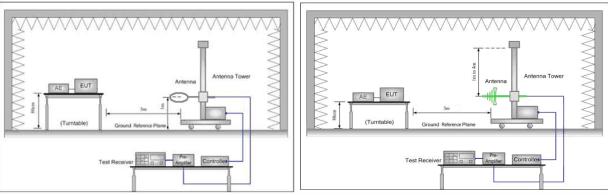


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

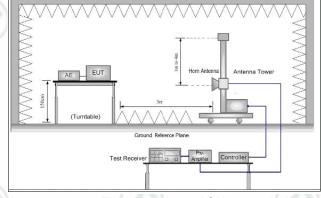
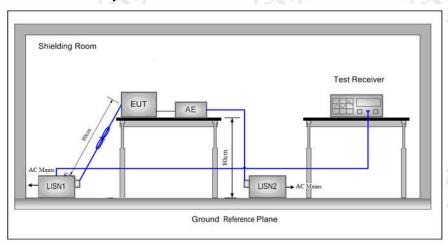


Figure 3. Above 1GHz





5.1.3 For Conducted Emissions test setup Conducted Emissions setup



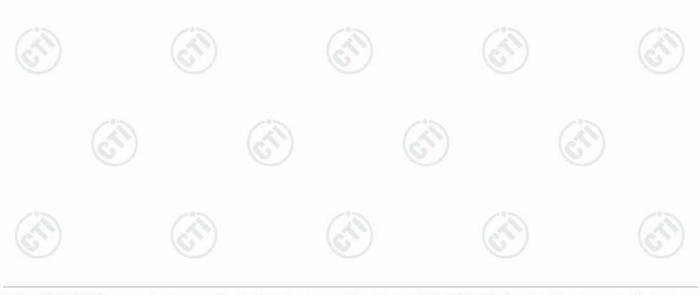
5.2 Test Environment

Operating Environment:			6
Temperature:	23.0 °C		
Humidity:	54 % RH	1-2	
Atmospheric Pressure:	1010mbar		\

5.3 Test Condition

Test channel:

Test Mode	Tx/Rx	RF Channel			
Test Mode	TX/KX	Low(L)	Middle(M)	High(H)	
05014	0.4001411 0.400.1411	Channel 0	Channel 19	Channel 39	
GFSK	2402MHz ~2480 MHz	2402MHz	2440MHz	2480MHz	
Transmitting mode:	Keep the EUT in transmitting mod rate.	e with all kind of m	odulation and a	all kind of data	





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6 General Information

6.1 Client Information

Applicant:	Microlife Corporation
Address of Applicant:	9F, 431, RuiGuang Road, NeiHu, Taipei 11492, Taiwan
Manufacturer:	ONBO Electronic (Shenzhen) Co., Ltd.
Address of Manufacturer:	No. 138, Huasheng Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China
Factory:	ONBO Electronic (Shenzhen) Co., Ltd.
Address of Factory:	No. 138, Huasheng Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China

6.2 General Description of EUT

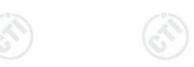
Product Name:	Digital Blo	ood Pressure Monitor		
Model No.(EUT):	BP3MV1-	-3B, BP3MV1-3BHM		
Test Model No:	BP3MV1-	-3B		13
Trade mark:	micr	olife		(6)
EUT Supports Radios application:	4.0 BT Si	ngle mode, 2402MHz to 2480MHz		
Power Supply:	Adapter	MODEL :D5A-6E-05 US INPUT:100-240V~50/60Hz 0.3A OUTPUT:+6V0.6A	61	
	Battery	AA 1.5V*3		
Sample Received Date:	Jun. 18, 2	2020		- 10
Sample tested Date:	Jun. 18, 2	2020 to Jul. 06, 2020		

6.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz				
Bluetooth Version:	4.0	13		130	
Modulation Technique:	DSSS	(62)		(63)	
Modulation Type:	GFSK				
Number of Channel:	40				
Test Power Grade:	Default		100		~**
Test Software of EUT:	Default		(83)		(85)
Antenna Type and Gain:	Type: Integral antenna				
	Gain:-2.39 dBi				
Test Voltage:	AC120V/60Hz	- 175			
Test Power Grade: Test Software of EUT: Antenna Type and Gain:	Default Default Type: Integral antenna Gain:-2.39 dBi				(E









Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz





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6.4 Description of Support Units

The EUT has been tested with associated equipment below. support equipment

Associated equipment name		Manufacture	model	S/N serial number	Supplied by	Certification
D	Notebook	DELL	DELL 3490	D245DX2	DELL	CE&FCC

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions

None.

6.8 Other Information Requested by the Customer

None.

6.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	DE marilla a madricata d	0.46dB (30MHz-1GHz)
	RF power, conducted	0.55dB (1GHz-18GHz)
2	Dadiated Spurious emission test	4.3dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.5dB (1GHz-12.75GHz)
4	Conduction aminaism	3.5dB (9kHz to 150kHz)
4	Conduction emission	3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%





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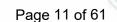
7 Equipment List

		RF test s	system		
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	02-17-2020	02-16-2021
Signal Generator	Keysight	N5182B	MY53051549	02-17-2020	02-16-2021
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	07-26-2019	07-25-2020
High-pass filter	Sinoscite	FL3CX03WG18N M12-0398-002	(0.)	(ــ ا
High-pass filter	MICRO- TRONICS	SPA-F-63029-4			
DC Power	Keysight	E3642A	MY56376072	02-17-2020	02-16-2021
PC-1	Lenovo	R4960d		0 7	(6)
BT&WI-FI Automatic control	R&S	OSP120	101374	02-17-2020	02-16-2021
RF control unit	JS Tonscend	JS0806-2	158060006	02-17-2020	02-16-2021
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	(6)		5)

and the second second		- C -		and SE Trans.	C 10 100		
	Conducted disturbance Test						
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
Receiver	R&S	ESCI 100435		04-28-2020	04-27-2021		
Temperature/ Humidity Indicator	Defu	TH128		/	(B)		
LISN	R&S	ENV216	100098	03-05-2020	03-04-2021		
Barometer	changchun	DYM3	1188				







1.43	1.2		1 43		[43]
	3M	Semi/full-anecho	ic Chamber		
Equipment	Equipment Manufacturer Model No. Serial Number		Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3		05-24-2019	05-23-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	07-26-2019	07-25-2020
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B- 076	04-25-2018	04-24-2021
Receiver	R&S	ESCI7	100938- 003	10-21-2019	10-20-2020
Multi device Controller	maturo	NCD/070/107 11112	(F)		(E)
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	07-26-2019	07-25-2020
Cable line	Fulai(7M)	SF106	5219/6A		
Cable line	Fulai(6M)	SF106	5220/6A		
Cable line	Fulai(3M)	SF106	5216/6A	/ -	
Cable line	Fulai(3M)	SF106	5217/6A	(44.7	





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1 4 2		(-63)	(400)		1.43
		3M full-anechoic	c Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166		
Receiver	Keysight	N9038A	MY57290136	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-05-2020	03-04-2021
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018	04-24-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-25-2018	04-24-2021
Horn Antenna	ETS- LINDGREN	3117	00057407	07-10-2018	07-09-2021
Preamplifier	EMCI	EMC184055SE	980596	05-20-2020	05-19-2021
Preamplifier	EMCI	EMC001330	980563	04-22-2020	04-21-2021
Preamplifier	JS Tonscend	980380	EMC051845 SE	01-09-2020	01-08-2021
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-27-2020	04-26-2021
Fully Anechoic Chamber	TDK	FAC-3		01-17-2018	01-16-2021
Filter bank	JS Tonscend	JS0806-F	188060094	04-10-2018	04-09-2021
Cable line	Times	SFT205-NMSM- 2.50M	394812-0001		6.7
Cable line	Times	SFT205-NMSM- 2.50M	394812-0002		
Cable line	Times	SFT205-NMSM- 2.50M	394812-0003	750	
Cable line	Times	SFT205-NMSM- 2.50M	393495-0001		(
Cable line	Times	EMC104-NMNM- 1000	SN160710		
Cable line	Times	SFT205-NMSM- 3.00M	394813-0001		215
Cable line	Times	SFT205-NMNM- 1.50M	381964-0001		(C)
Cable line	Times	SFT205-NMSM- 7.00M	394815-0001		
Cable line	Times	HF160-KMKM- 3.00M	393493-0001		















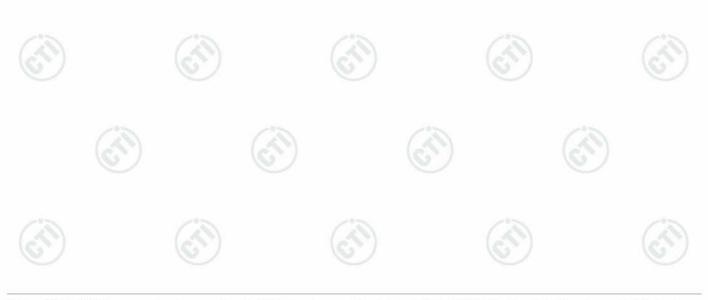
8 Radio Technical Requirements Specification

Reference documents for testing:

	No.	Identity	Document Title
	1	FCC Part15C	Subpart C-Intentional Radiators
ì	2	ANSI C63.10-2013	American National Standard for Testing Unlicesed Wireless Devices

Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (a)(2)	ANSI C63.10	6dB Occupied Bandwidth	PASS	Appendix A)
Part15C Section 15.247 (b)(3)	ANSI C63.10	Conducted Peak Output Power	PASS	Appendix B)
Part15C Section 15.247(d)	ANSI C63.10	Band-edge for RF Conducted Emissions	PASS	Appendix C)
Part15C Section 15.247(d)	ANSI C63.10	RF Conducted Spurious Emissions	PASS	Appendix D)
Part15C Section 15.247 (e)	ANSI C63.10	Power Spectral Density	PASS	Appendix E)
Part15C Section 15.203/15.247 (c)	ANSI C63.10	Antenna Requirement	PASS	Appendix F)
Part15C Section 15.207	ANSI C63.10	AC Power Line Conducted Emission	PASS	Appendix G)
Part15C Section 15.205/15.209	ANSI C63.10	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix H)
Part15C Section 15.205/15.209	ANSI C63.10	Radiated Spurious Emissions	PASS	Appendix I)

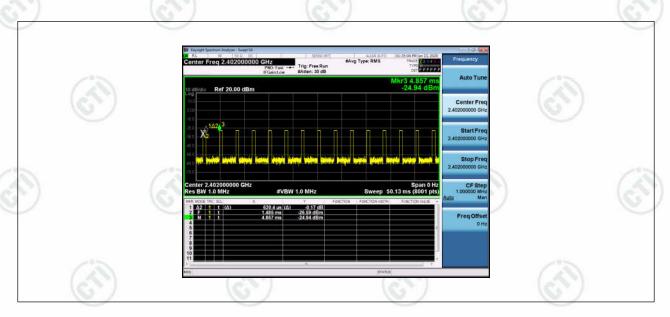




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EUT DUTY CYCLE

	Duty Cycle				
	Configuration	TX ON(ms)	TX ALL(ms)	Duty Cycle(%)	
10	BLE	0.6204	3.372	18.40%	







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Appendix A): 6dB Occupied Bandwidth

Test Limit

According to §15.247(a)(2) and RSS-247 section 5.2(a)

6 dB Bandwidth:

4	Limit	Shall be at least 500kHz	

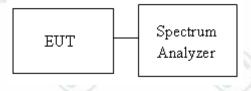
Occupied Bandwidth(99%): For reporting purposes only.

Test Procedure

Test method Refer as KDB 558074 D01, section 8.1 and ANSI 63.10:2013 clause 6.9.2 & 6.9.3.

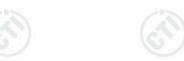
- 1. The EUT RF output connected to the spectrum analyzer by RF cable.
- 2. Setting maximum power transmit of EUT
- 3. SA set RBW = 100kHz, VBW = 300kHz and Detector = Peak, to measurement 6 dB Bandwidth .
- 4. SA set RBW = 30kHz, VBW = 100kHz and Detector = Peak, to measurement 99% Bandwidth.
- 5. Measure and record the result of 6 dB Bandwidth and 99% Bandwidth. in the test report.

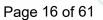
Test Setup











Test Result

6dB OBW

Mode	Channel	6dB Bandwidth [MHz]	Verdict
BLE	LCH	0.6518	PASS
BLE	МСН	0.6717	PASS
BLE	НСН	0.6704	PASS

99%OBW

00700		/ 4 %	
Mode	Channel	99% OBW[MHz]	Verdict
BLE	LCH	1.0948	PASS
BLE	MCH	1.0840	PASS
BLE	НСН	1.1061	PASS































































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6dB OBW

Test Graphs















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99%OBW

Test Graphs















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Appendix B): Conducted Peak Output Power

Test Limit

According to §15.247(b) and RSS-247 section 5.4(d)

Peak output power:

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

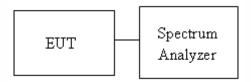
	N A 1 10 ID: 00 ID	(25)
Limit	☐ Antenna with DG greater than 6 dBi [Limit = 30 – (DG – 6)]	
	Point-to-point operation	

Test Procedure

Test method Refer as KDB 558074 D01, section 9.1.2.

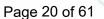
- 1. The EUT RF output connected to spectrum analyzer by RF cable.
- 2. Setting maximum power transmit of EUT.
- 3. Spectrum analyzer settings are as follows:
 - a) Set the RBW ≥ DTS bandwidth.
 - b) Set VBW ≥ [3×RBW].
 - c) Set span ≥[3×RBW].
 - d) Sweep time = auto couple.
 - e) Detector = peak.
 - f) Trace mode = max hold.
 - g) Allow trace to fully stabilize.
 - h) Use peak marker function to determine the peak amplitude level
- 4. Measure and record the result in the test report.

Test Setup









Test Result

Mode	Channel	Conduct Peak Power[dBm]	Verdict
BLE	LCH	-2.985	PASS
BLE	MCH	-3.824	PASS
BLE	HCH	-5.032	PASS











































































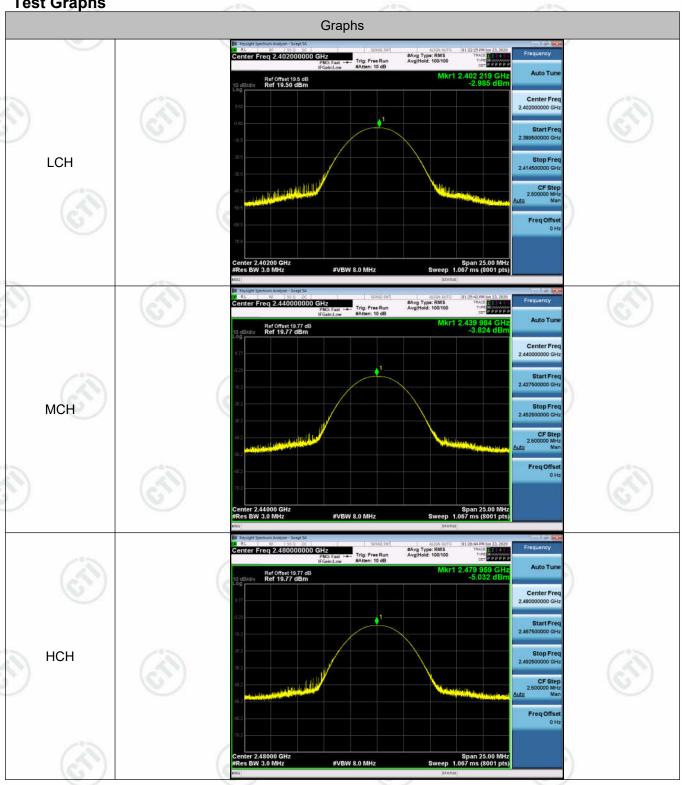






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Test Graphs















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Appendix C): Band-edge for RF Conducted Emissions

Test Limit

According to §15.247(d) and RSS-247 section 5.5

In any 100 kHz bandwidth outside the authorized frequency band,

Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Test Procedure

Test method Refer as KDB 558074 D01, Section 11.

- 1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
- 2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
- 3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Setup





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Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	LCH	-3.191	-60.777	-23.19	PASS
BLE	HCH	-5.068	-53.893	-25.07	PASS

Test Graphs







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Appendix D): RF Conducted Spurious Emissions <u>Test Limit</u>

According to §15.247(d) and RSS-247 section 5.5

In any 100 kHz bandwidth outside the authorized frequency band,

Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Test Procedure

Test method Refer as KDB 558074 D01, Section 11.

- 1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
- 2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
- 3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Setup



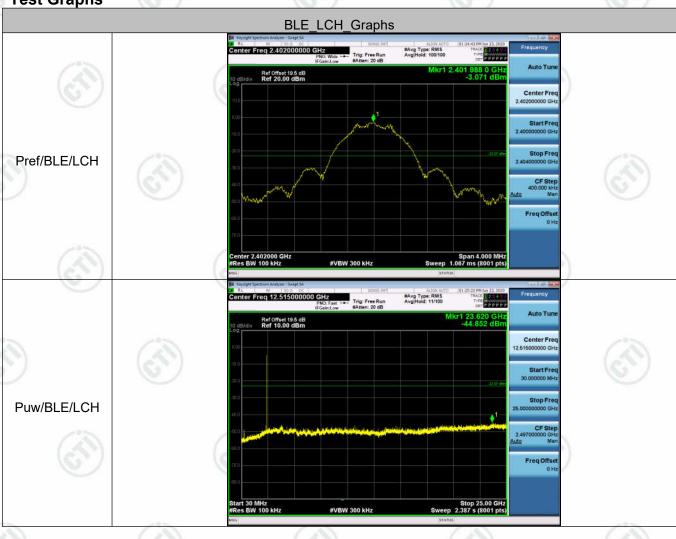


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Result Table

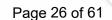
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
BLE	LCH	-3.071	<limit< td=""><td>PASS</td></limit<>	PASS
BLE	MCH	-3.925	<limit< td=""><td>PASS</td></limit<>	PASS
BLE	НСН	-5.158	<limit< td=""><td>PASS</td></limit<>	PASS

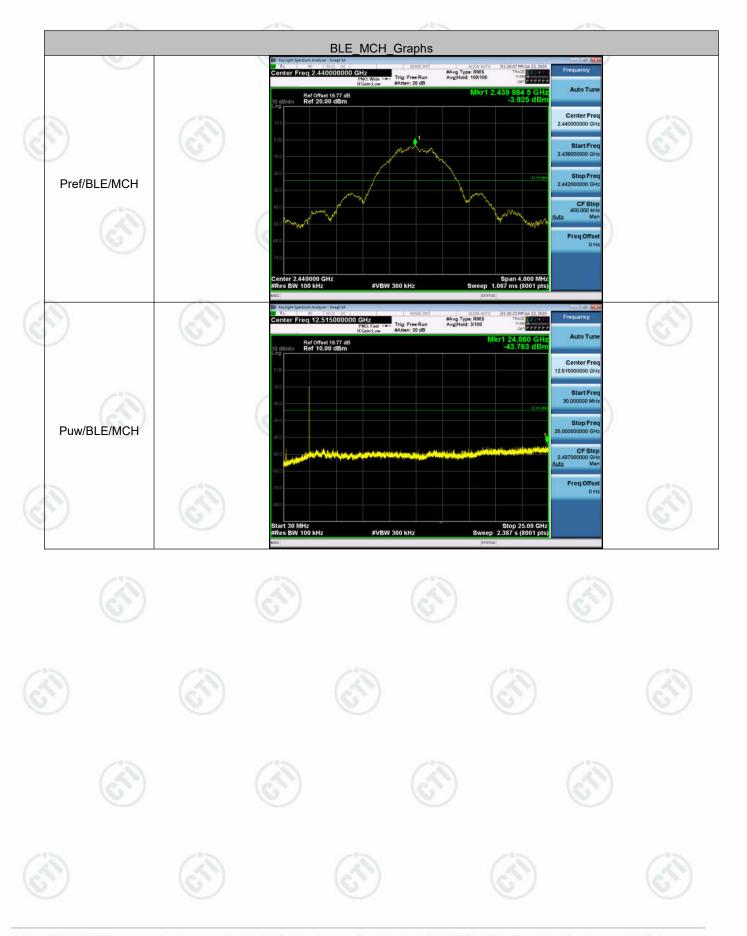
Test Graphs





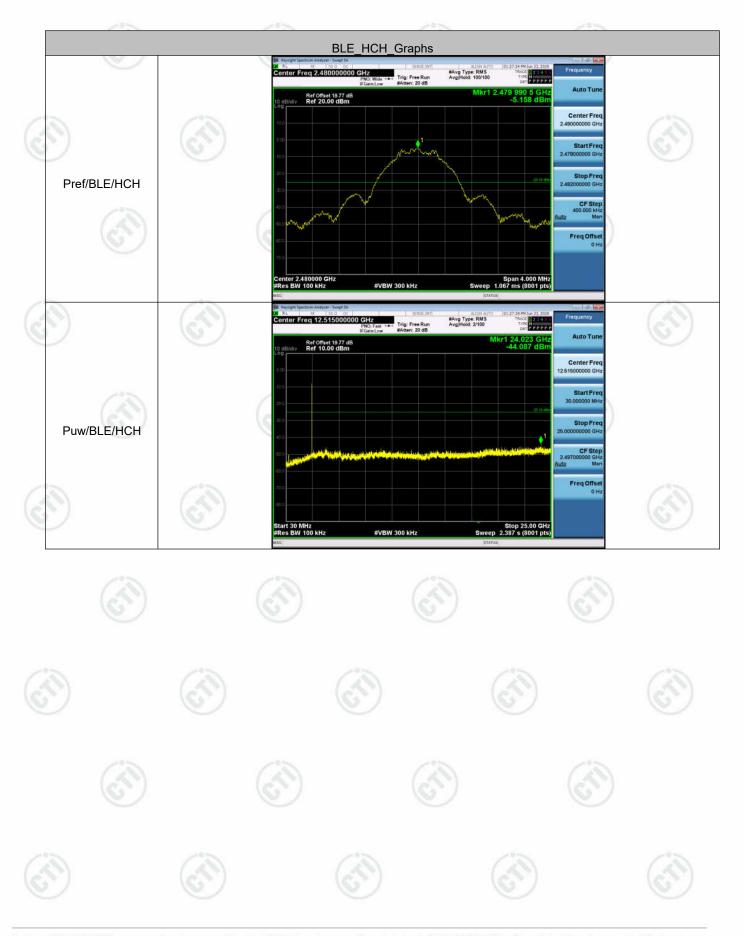














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Appendix E): Power Spectral Density

Test Limit

According to §15.247(e) and RSS-247 section 5.2(b)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Limit 6	 ✓ Antenna not exceed 6 dBi : 8dBm ☐ Antenna with DG greater than 6 dBi [Limit = 8 - (DG - 6)] ☐ Point-to-point operation :
	i diffe to point operation .

Test Procedure

Test method Refer as KDB 558074 D01, Section 10.2

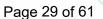
- The EUT RF output connected to the spectrum analyzer by RF cable.
- 2. Setting maximum power transmit of EUT
- 3. SA set RBW = 3kHz, VBW = 10kHz, Span = 1.5 times DTS Bandwidth (6 dB BW), Detector = Peak, Sweep Time = Auto and Trace = Max hold.
- 4. The path loss and Duty Factor were compensated to the results for each measurement by SA.
- Mark the maximum level.Measure and record the result of power spectral density. in the test report.

Test Setup









Result Table

Mode	Channel PSD [dBm]		Verdict
BLE	LCH	-15.646	PASS
BLE	MCH	-16.521	PASS
BLE	НСН	-17.047	PASS





































































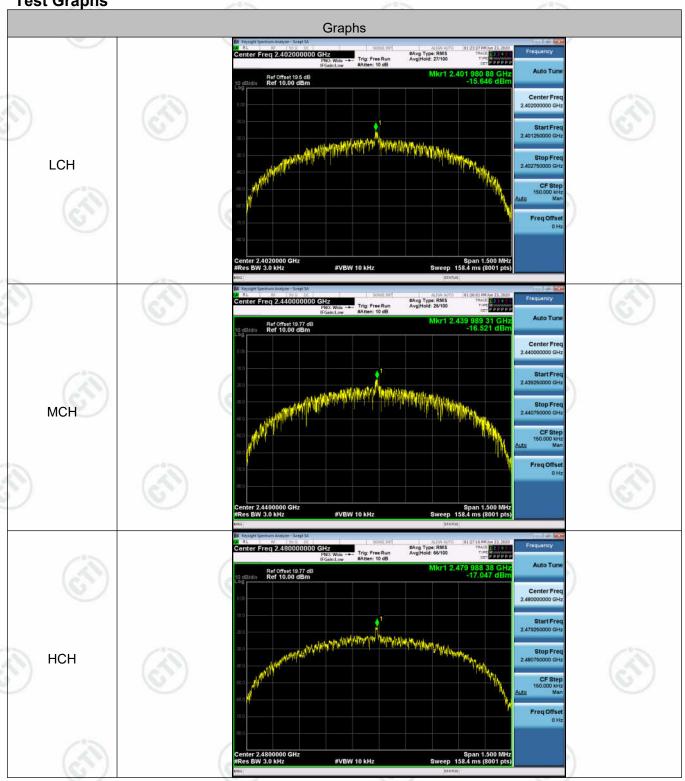






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Test Graphs















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Appendix F): Antenna Requirement

15.203 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, 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -2.39 dBi.

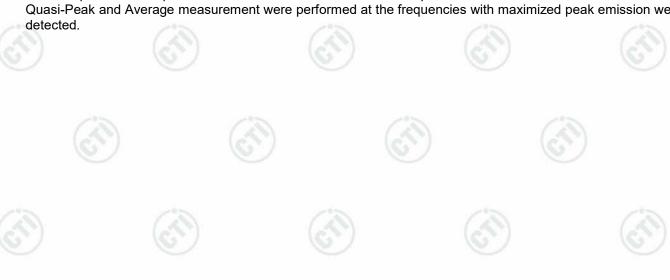




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Appendix G): AC Power Line Conducted Emission

Test Procedure:	Test frequency range :150KHz-	-30MHz		
	1)The mains terminal disturban		onducted in a shie	lded room.
	2) The EUT was connected to	•		
	Stabilization Network) which			
	power cables of all other u			
')	which was bonded to the gr for the unit being measured			
	multiple power cables to a sexceeded.			
	3)The tabletop EUT was place	ed upon a non-metalli	c table 0.8m abov	ve the around
	reference plane. And for floo horizontal ground reference	or-standing arrangem		
	4) The test was performed wit			
	EUT shall be 0.4 m from the	ū	•	•
	reference plane was bonde 1 was placed 0.8 m from t			
(3)	ground reference plane fo			
/	plane. This distance was be			
	All other units of the EUT a	nd accordated equipm		10 m fram tha
		nu associateu equipii	ieni was ai ieasi u	7.0 III IIOIII IIIE
	LISN 2.			
	LISN 2. 5) In order to find the maximum	n emission, the relativ	e positions of equi	pment and all
(cit)	LISN 2.	n emission, the relativ	e positions of equi	pment and all
Limit:	LISN 2. 5) In order to find the maximum of the interface cables in	n emission, the relativ	e positions of equi ccording to ANS	pment and all
Limit:	LISN 2. 5) In order to find the maximum of the interface cables no conducted measurement.	n emission, the relativ	e positions of equi ccording to ANS	pment and all
Limit:	LISN 2. 5) In order to find the maximum of the interface cables in	n emission, the relativ	e positions of equi ccording to ANS	pment and all
Limit:	LISN 2. 5) In order to find the maximum of the interface cables no conducted measurement.	n emission, the relativ nust be changed a Limit (c	e positions of equi ccording to ANS	pment and all
Limit:	LISN 2. 5) In order to find the maximum of the interface cables in conducted measurement. Frequency range (MHz)	n emission, the relativ nust be changed a Limit (c	e positions of equi ccording to ANS IBµV) Average	pment and all
Limit:	LISN 2. 5) In order to find the maximum of the interface cables in conducted measurement. Frequency range (MHz) 0.15-0.5	n emission, the relative nust be changed a Limit (conduction Quasi-peak 66 to 56*	e positions of equi ccording to ANS IBµV) Average 56 to 46*	pment and all
Limit:	LISN 2. 5) In order to find the maximum of the interface cables in conducted measurement. Frequency range (MHz) 0.15-0.5 0.5-5 5-30 * The limit decreases linearly was assumed to the interface cables in a conducted measurement.	Limit (condition) Quasi-peak 66 to 56* 56 60	e positions of equicording to ANS IBµV) Average 56 to 46* 46 50	pment and all I C63.10 on
Limit:	LISN 2. 5) In order to find the maximum of the interface cables in conducted measurement. Frequency range (MHz) 0.15-0.5 0.5-5 5-30 * The limit decreases linearly with MHz to 0.50 MHz.	Limit (concept) Quasi-peak 66 to 56* 56 60 with the logarithm of	e positions of equicording to ANS BµV) Average 56 to 46* 46 50 the frequency in the	pment and all I C63.10 on
Limit:	LISN 2. 5) In order to find the maximum of the interface cables in conducted measurement. Frequency range (MHz) 0.15-0.5 0.5-5 5-30 * The limit decreases linearly was assumed to the interface cables in a conducted measurement.	Limit (concept) Quasi-peak 66 to 56* 56 60 with the logarithm of	e positions of equicording to ANS BµV) Average 56 to 46* 46 50 the frequency in the	pment and all I C63.10 on
Measurement Data	LISN 2. 5) In order to find the maximum of the interface cables in conducted measurement. Frequency range (MHz) 0.15-0.5 0.5-5 5-30 * The limit decreases linearly with MHz to 0.50 MHz. NOTE: The lower limit is applice.	Limit (concept) Quasi-peak 66 to 56* 56 60 With the logarithm of coable at the transition	e positions of equicording to ANS BµV) Average 56 to 46* 46 50 the frequency in the frequency	pment and all I C63.10 on
Measurement Data An initial pre-scan wa	LISN 2. 5) In order to find the maximum of the interface cables in conducted measurement. Frequency range (MHz) 0.15-0.5 0.5-5 5-30 * The limit decreases linearly with MHz to 0.50 MHz. NOTE: The lower limit is applied a performed on the live and neutral limits.	Limit (concept) Quasi-peak 66 to 56* 56 60 With the logarithm of coable at the transition companies with peak detections.	e positions of equicording to ANS BµV) Average 56 to 46* 46 50 the frequency in the frequency or.	pment and all I C63.10 on
Measurement Data An initial pre-scan wa	LISN 2. 5) In order to find the maximum of the interface cables in conducted measurement. Frequency range (MHz) 0.15-0.5 0.5-5 5-30 * The limit decreases linearly with MHz to 0.50 MHz. NOTE: The lower limit is applice.	Limit (concept) Quasi-peak 66 to 56* 56 60 With the logarithm of coable at the transition companies with peak detections.	e positions of equicording to ANS BµV) Average 56 to 46* 46 50 the frequency in the frequency or.	pment and all I C63.10 on
Measurement Data An initial pre-scan wa Quasi-Peak and Aver	LISN 2. 5) In order to find the maximum of the interface cables in conducted measurement. Frequency range (MHz) 0.15-0.5 0.5-5 5-30 * The limit decreases linearly with MHz to 0.50 MHz. NOTE: The lower limit is applied a performed on the live and neutral limits.	Limit (concept) Quasi-peak 66 to 56* 56 60 With the logarithm of coable at the transition companies with peak detections.	e positions of equicording to ANS BµV) Average 56 to 46* 46 50 the frequency in the frequency or.	pment and all I C63.10 on

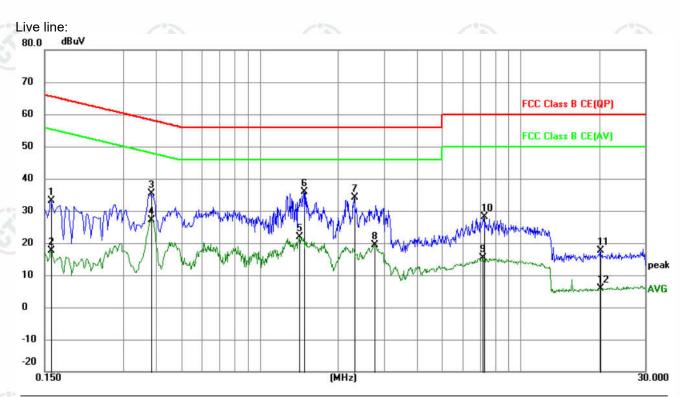




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Product : Digital Blood Pressure Monitor Model/Type reference : BP3MV1-3B

Temperature : 24° **Humidity** : 52%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1590	22.99	10.20	33.19	65.52	-32.33	QP	
2		0.1590	7.31	10.20	17.51	55.52	-38.01	AVG	
3		0.3840	25.14	10.12	35.26	58.19	-22.93	QP	
4		0.3840	17.04	10.12	27.16	48.19	-21.03	AVG	
5		1.4235	12.07	9.89	21.96	46.00	-24.04	AVG	
6	*	1.4775	25.93	9.89	35.82	56.00	-20.18	QP	
7		2.3055	24.34	9.88	34.22	56.00	-21.78	QP	
8		2.7510	9.54	9.88	19.42	46.00	-26.58	AVG	
9		7.1475	5.39	9.92	15.31	50.00	-34.69	AVG	
10		7.2240	18.13	9.92	28.05	60.00	-31.95	QP	
11		20.2515	7.42	10.22	17.64	60.00	-42.36	QP	
12		20.2515	-4.24	10.22	5.98	50.00	-44.02	AVG	







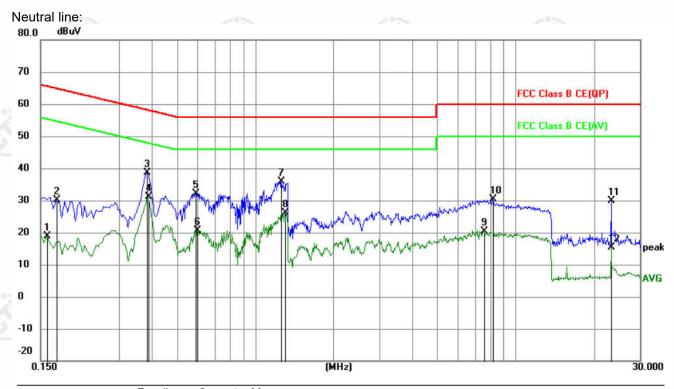












No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1590	8.71	10.20	18.91	55.52	-36.61	AVG	
2		0.1725	19.84	10.18	30.02	64.84	-34.82	QP	
3		0.3840	28.54	10.12	38.66	58.19	-19.53	QP	
4	*	0.3885	20.95	10.12	31.07	48.10	-17.03	AVG	
5		0.5910	22.11	10.07	32.18	56.00	-23.82	QP	
6		0.6000	10.62	10.06	20.68	46.00	-25.32	AVG	
7		1.2615	25.98	9.89	35.87	56.00	-20.13	QP	
8		1.3020	16.17	9.89	26.06	46.00	-19.94	AVG	
9		7.5570	10.52	9.93	20.45	50.00	-29.55	AVG	
10		8.1825	20.36	9.94	30.30	60.00	-29.70	QP	
11		23.2979	19.61	10.28	29.89	60.00	-30.11	QP	
12		23.2979	5.16	10.28	15.44	50.00	-34.56	AVG	

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.













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Appendix H): Restricted bands around fundamental frequency (Radiated)

Receiver Setup:	193 7	130.7				
Neceiver Setup.	Frequency	Detector	RBW	VBW	Remark	
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak	
	AL 40U-	Peak	1MHz	3MHz	Peak	
	Above 1GHz	Peak	1MHz	10Hz	Average	
est Procedure:	Below 1GHz test procedu	re as below:	(0)		1	6
	Test method Refer as KDB	558074 D01 , S	Section 12.	1		
	 a. The EUT was placed or at a 3 meter semi-anecl determine the position of the EUT was set 3 met was mounted on the top c. The antenna height is videtermine the maximum polarizations of the antended. For each suspected emithe antenna was tuned was turned from 0 degree. The test-receiver system 	noic camber. The first highest rates away from the from one of a variable-haried from one of value of the first heights from the EUT to heights from the ees to 360 degrees	ne table wandiation. the interferencight anter meter to foeld strength make the notes arran 1 meter to find	ence-receinna tower. our meters n. Both hor neasurement ged to its 4 meters the maxin	wing antennal above the grain and vent. worst case are and the rotate and the rotate and meading.	to , whice ound to ertica and the
	Bandwidth with Maximu f. Place a marker at the e frequency to show com bands. Save the spectro for lowest and highest of	nd of the restric pliance. Also m um analyzer plo	easure any	emission	s in the restri	
	Bandwidth with Maximu f. Place a marker at the e frequency to show com bands. Save the spectre for lowest and highest of	nd of the restric pliance. Also m um analyzer plo hannel	easure any	emission	s in the restri	
	Bandwidth with Maximu f. Place a marker at the e frequency to show com bands. Save the spectro	nd of the restrict pliance. Also mum analyzer plothannel re as below: e is the test site our change form meter and table west channel, inents are perfound the X axis.	easure any ot. Repeat f e, change fi n table 0.8 le is 1.5 me the Highest rmed in X, kis positioni	remissions for each por from Semi- meter to 1 ter). t channel Y, Z axis p ing which i	s in the restriction of the control	dulation nambe ove
imit:	Bandwidth with Maximum f. Place a marker at the endergroup for show compands. Save the spectron for lowest and highest of the spectron for lowest and highest of the spectron for lowest and highest of lowest and highest of fully Anechoic Chamber 18GHz the distance is 18 h. Test the EUT in the lowest interest in the radiation measurem that the spectron for the spectron for the spectrum for the spectron for the sp	nd of the restrict pliance. Also mum analyzer plothannel re as below: e is the test site our change form meter and table west channel, inents are perfound the X axis.	easure any ot. Repeat for the highest red in X, kis positioni uencies me	remissions for each por form Semi- meter to 1 ter). t channel Y, Z axis p ing which i	s in the restriction of the control	dulation nambe ove
imit:	Bandwidth with Maximum f. Place a marker at the endergroup for show combands. Save the spectron for lowest and highest of the standard for the following for the first spectron for lowest and highest of the spectron for lowest and highest of the first spectron for lowest for lowest formula for the first spectron for lowest for lowest formula for lowest formula for lowest formula for lowest for lowest formula for lowest for lowest formula for lowest formula for lowest formula for lowest for lowest formula for lowest for lowest formula for lowest for lowe	nd of the restrict pliance. Also mum analyzer place hannel re as below: e is the test site of the change form meter and table west channel, ments are perfound the X axes until all frequents.	easure any ot. Repeat for table 0.8 le is 1.5 met the Highest rmed in X, kis positioni uencies med/m @3m)	rom Semi- meter to 1 ter). t channel Y, Z axis p ing which i	Anechoic Ch .5 meter(Abo positioning for t is worse cas as complete.	dulation nambe ove
imit:	Bandwidth with Maximu f. Place a marker at the e frequency to show com bands. Save the spectre for lowest and highest of Above 1GHz test procedu g. Different between above to fully Anechoic Chamle 18GHz the distance is 1 h. Test the EUT in the low i. The radiation measuren Transmitting mode, and j. Repeat above procedur Frequency	nd of the restrict pliance. Also mum analyzer plothannel re as below: e is the test site per change form meter and table west channel, ments are performents are performents and the X axes until all frequents (dBµV).	easure any ot. Repeat for table 0.8 le is 1.5 met the Highest rmed in X, kis positioni uencies med/m @3m)	rom Semi- meter to 1 ter). t channel Y, Z axis p ing which i easured wa	Anechoic Ch.5 meter(Abe	dulation nambe ove
imit:	Bandwidth with Maximum f. Place a marker at the endergroup for show compands. Save the spectron for lowest and highest of the spectron for lowest and highest of the spectron for lowest and highest of lowest and highest of fully Anechoic Chamber 18GHz the distance is 18 h. Test the EUT in the lower in the radiation measurem that the spectron for	nd of the restrict pliance. Also mum analyzer plothannel re as below: e is the test site oper change form meter and table west channel, ments are performents are performent all frequential frequential (dBµV).	easure any ot. Repeat for table 0.8 le is 1.5 met the Highest rmed in X, kis positioni uencies med/m @3m)	rom Semi- meter to 1 ter). t channel Y, Z axis p ing which i easured wa Rei Quasi-pe	Anechoic Ch.5 meter(Aboositioning for tis worse cases complete.	dulation nambe ove
imit:	Bandwidth with Maximum f. Place a marker at the endergroup frequency to show combands. Save the spectrospec	nd of the restrict pliance. Also mum analyzer plothannel re as below: the ist the test site per change form meter and table west channel, ments are performents are performent all frequential frequential (dBµV).	easure any ot. Repeat for table 0.8 le is 1.5 met the Highest rmed in X, kis positioni uencies med/m @3m)	rom Semi- meter to 1 ter). t channel Y, Z axis p ing which i easured wa Rei Quasi-pe Quasi-pe	Anechoic Ch .5 meter(Abo cositioning for t is worse cas as complete. mark eak Value	dulation nambe ove
imit:	Bandwidth with Maximum f. Place a marker at the endergroup frequency to show compliants. Save the spectrospectrospectrospectre for lowest and highest of lowest and highest of lowest and highest of lowest and highest of fully Anechoic Chamber 18GHz the distance is 18 h. Test the EUT in the lowed in the radiation measured Transmitting mode, and j. Repeat above procedur Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz	nd of the restrict pliance. Also mum analyzer plot channel re as below: e is the test site per change form meter and table west channel, ments are perfound the X axes until all frequency Limit (dBµV 40.0 43.5 46.0 54.0	easure any ot. Repeat for table 0.8 le is 1.5 met the Highest rmed in X, kis positioni uencies med	remissions for each por for eac	Anechoic Ch.5 meter(Aboositioning for tis worse cases complete. mark eak Value eak Value eak Value	dulation nambe ove
imit:	Bandwidth with Maximum f. Place a marker at the endergroup for show compounds. Save the spectration for lowest and highest of the following for lowest and highest of the following for lowest and highest of the following for fo	nd of the restrict pliance. Also mum analyzer plothannel re as below: e is the test site our change form meter and table west channel, ments are performents are performent all frequential frequenti	easure any ot. Repeat for table 0.8 le is 1.5 met the Highest rmed in X, kis positioni uencies med	remissions for each por for eac	Anechoic Ch. 5 meter (Above Stioning for tis worse cases complete. mark eak Value eak Value	dulation nambe ove











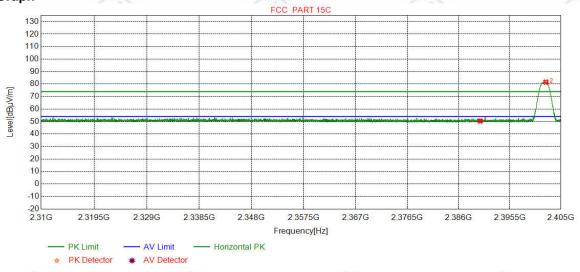


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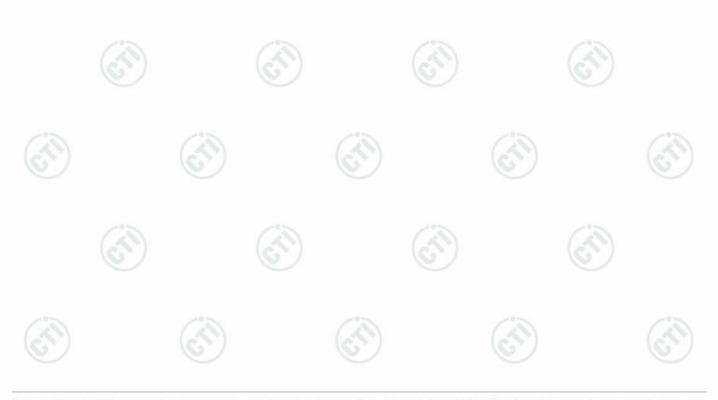
Test plot as follows:

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	PK		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	47.87	50.37	74.00	23.63	Pass	Horizontal
2	2402.2131	32.26	13.31	-43.12	79.10	81.55	74.00	-7.55	Pass	Horizontal

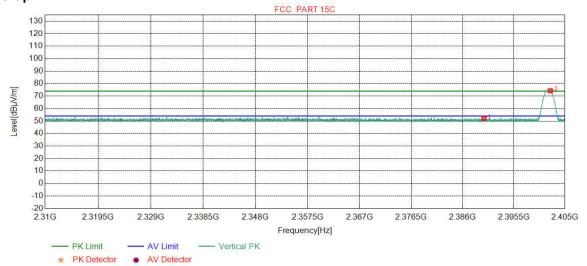






Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	PK		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.57	52.07	74.00	21.93	Pass	Vertical
2	2402.2892	32.26	13.31	-43.12	71.82	74.27	74.00	-0.27	Pass	Vertical

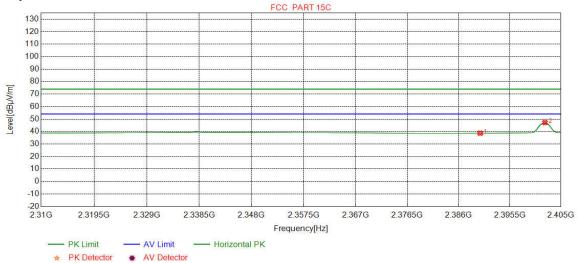




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Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	AV		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	36.16	38.66	54.00	15.34	Pass	Horizontal
2	2402.0358	32.26	13.31	-43.12	44.69	47.14	54.00	6.86	Pass	Horizontal

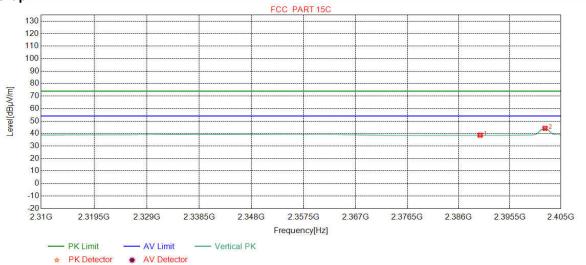




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Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	AV		

Test Graph



N	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	36.20	38.70	54.00	15.30	Pass	Vertical
2	2402.0485	32.26	13.31	-43.12	41.69	44.14	54.00	9.86	Pass	Vertical

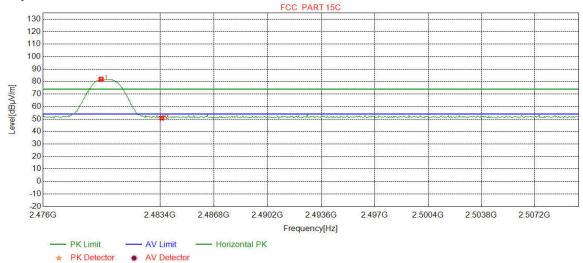




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Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	PK		

Test Graph



N	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2479.6596	32.37	13.39	-43.10	79.20	81.86	74.00	-7.86	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	48.16	50.81	74.00	23.19	Pass	Horizontal

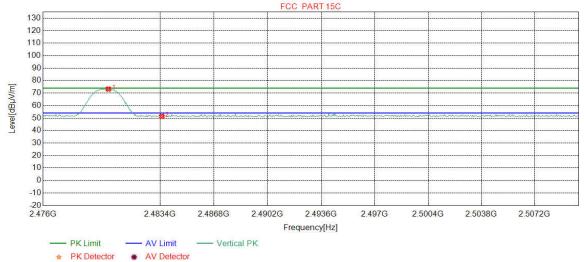




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Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	PK		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2480.1277	32.37	13.39	-43.10	70.54	73.20	74.00	0.80	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	48.70	51.35	74.00	22.65	Pass	Vertical

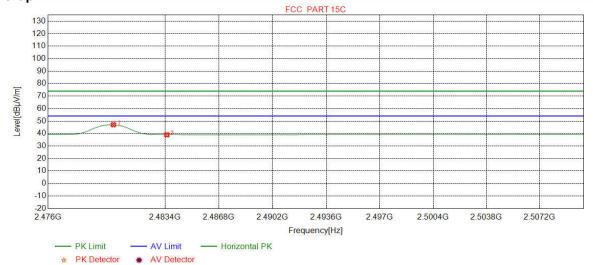




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Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	AV		

Test Graph



	NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
	1	2480.1277	32.37	13.39	-43.10	44.41	47.07	54.00	6.93	Pass	Horizontal
Ī	2	2483.5000	32.38	13.38	-43.11	36.31	38.96	54.00	15.04	Pass	Horizontal

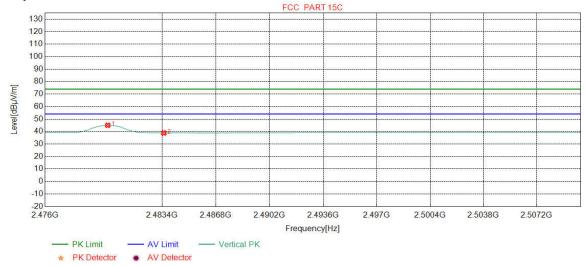




Page	43	of	61	
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Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	AV		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2479.9574	32.37	13.39	-43.10	42.33	44.99	54.00	9.01	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	36.20	38.85	54.00	15.15	Pass	Vertical

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading -Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor





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Appendix I) Radiated Spurious Emissions

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark	
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak	
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average	
A	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak	100
)	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak	(6)
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average	
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak	
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak	
(C.L.I.)	Above 4011-	Peak	1MHz	3MHz	Peak	
	Above 1GHz	Peak	1MHz	10Hz	Average	

Test Procedure:

Below 1GHz test procedure as below:

Test method Refer as KDB 558074 D01, Section 12.1

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- . Repeat above procedures until all frequencies measured was complete.

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Frequency	Field strength (microvolt/meter)	Limit (dBµV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	(49)	300
0.490MHz-1.705MHz	24000/F(kHz)	-	(0.)	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.



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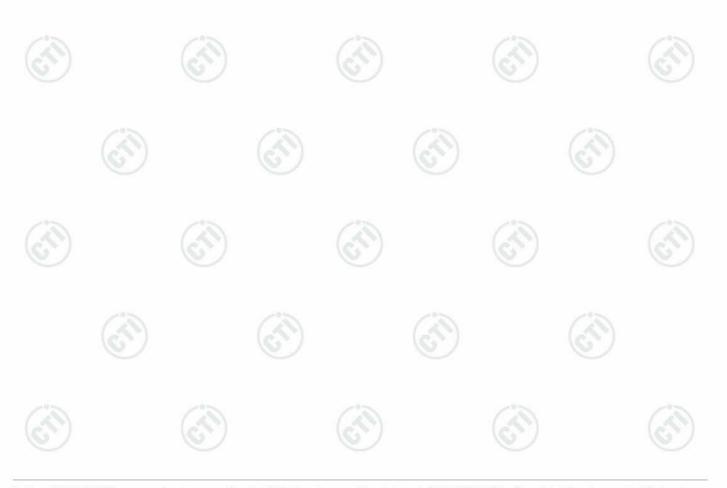
Radiated Spurious Emissions test Data:

Product : Digital Blood Pressure Monitor Model/Type reference : BP3MV1-3B

Temperature : 24° Humidity : 52%

Radiated Emission below 1GHz

Mode	e:		BLE G	SK Trans	smitting		Channel:		2440		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	36.5967	11.21	0.67	-31.38	45.09	25.59	40.00	14.41	Pass	Н	PK
2	150.0010	7.55	1.45	-32.01	41.29	18.28	43.50	25.22	Pass	Н	PK
3	195.0135	10.43	1.64	-31.94	44.40	24.53	43.50	18.97	Pass	Н	PK
4	303.9554	13.29	2.07	-31.60	47.33	31.09	46.00	14.91	Pass	Н	PK
5	399.9950	15.40	2.38	-31.70	43.00	29.08	46.00	16.92	Pass	Н	PK
6	649.9890	19.40	3.10	-32.07	40.52	30.95	46.00	15.05	Pass	Н	PK
7	36.5967	11.21	0.67	-31.38	45.23	25.73	40.00	14.27	Pass	V	PK
8	53.1853	12.69	0.83	-32.02	39.37	20.87	40.00	19.13	Pass	V	PK
9	195.0135	10.43	1.64	-31.94	46.95	27.08	43.50	16.42	Pass	V	PK
10	433.2693	15.93	2.46	-31.84	41.97	28.52	46.00	17.48	Pass	V	PK
11	649.9890	19.40	3.10	-32.07	41.34	31.77	46.00	14.23	Pass	V	PK
12	891.3491	22.00	3.58	-31.59	35.55	29.54	46.00	16.46	Pass	V	PK





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Transmitter Emission above 1GHz

Mode	:		BLE GF	SK Transn	nitting		Channel:		2402		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1799.2799	30.38	3.32	-42.72	51.71	42.69	74.00	31.31	Pass	Н	PK
2	3004.0003	33.20	4.92	-43.10	50.08	45.10	74.00	28.90	Pass	Н	PK
3	4804.0000	34.50	4.55	-42.80	51.34	47.59	74.00	26.41	Pass	Н	PK
4	7206.0000	36.31	5.81	-42.16	46.69	46.65	74.00	27.35	Pass	Н	PK
5	9608.0000	37.64	6.63	-42.10	46.30	48.47	74.00	25.53	Pass	Н	PK
6	12010.000	39.31	7.60	-41.90	46.42	51.43	74.00	22.57	Pass	Н	PK
7	1651.2651	29.40	3.14	-42.78	51.99	41.75	74.00	32.25	Pass	V	PK
8	3940.0627	33.75	4.34	-43.01	50.78	45.86	74.00	28.14	Pass	V	PK
9	4804.0000	34.50	4.55	-42.80	52.05	48.30	74.00	25.70	Pass	V	PK
10	7206.0000	36.31	5.81	-42.16	46.89	46.85	74.00	27.15	Pass	V	PK
11	9608.0000	37.64	6.63	-42.10	46.42	48.59	74.00	25.41	Pass	V	PK
12	12010.000	39.31	7.60	-41.90	47.43	52.44	74.00	21.56	Pass	V	PK

Mode	:		BLE GF	SK Transm	nitting			Channel:		2440	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1772.4772	30.20	3.27	-42.70	50.52	41.29	74.00	32.71	Pass	Н	PK
2	2167.5168	31.93	3.65	-43.16	55.24	47.66	74.00	26.34	Pass	Н	PK
3	4880.0000	34.50	4.80	-42.80	47.38	43.88	74.00	30.12	Pass	Н	PK
4	7320.0000	36.42	5.85	-42.14	46.42	46.55	74.00	27.45	Pass	Н	PK
5	9760.0000	37.70	6.73	-42.10	46.98	49.31	74.00	24.69	Pass	Н	PK
6	12200.000	39.42	7.67	-41.90	45.79	50.98	74.00	23.02	Pass	Н	PK
7	1910.0910	31.11	3.42	-42.98	51.10	42.65	74.00	31.35	Pass	V	PK
8	3932.0621	33.75	4.34	-43.02	50.01	45.08	74.00	28.92	Pass	V	PK
9	4880.0000	34.50	4.80	-42.80	48.17	44.67	74.00	29.33	Pass	V	PK
10	7320.0000	36.42	5.85	-42.14	46.85	46.98	74.00	27.02	Pass	V	PK
11	9760.0000	37.70	6.73	-42.10	46.11	48.44	74.00	25.56	Pass	V	PK
12	12200.000	39.42	7.67	-41.90	45.93	51.12	74.00	22.88	Pass	V	PK







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Mode:			BLE GFSK Transmitting					Channel:		2480	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2192.3192	31.97	3.65	-43.16	55.70	48.16	74.00	25.84	Pass	Н	PK
2	3900.0600	33.72	4.34	-43.02	50.91	45.95	74.00	28.05	Pass	Н	PK
3	4960.0000	34.50	4.82	-42.80	47.84	44.36	74.00	29.64	Pass	Н	PK
4	7440.0000	36.54	5.85	-42.11	46.69	46.97	74.00	27.03	Pass	Н	PK
5	9920.0000	37.77	6.79	-42.10	46.50	48.96	74.00	25.04	Pass	Н	PK
6	12400.000	39.54	7.86	-41.90	47.58	53.08	74.00	20.92	Pass	Н	PK
7	2116.3116	31.86	3.60	-43.17	51.31	43.60	74.00	30.40	Pass	V	PK
8	4153.0769	34.01	4.51	-42.94	50.06	45.64	74.00	28.36	Pass	V	PK
9	4960.0000	34.50	4.82	-42.80	48.01	44.53	74.00	29.47	Pass	V	PK
10	7440.0000	36.54	5.85	-42.11	47.21	47.49	74.00	26.51	Pass	V	PK
11	9920.0000	37.77	6.79	-42.10	46.20	48.66	74.00	25.34	Pass	V	PK
12	12400.000	39.54	7.86	-41.90	47.47	52.97	74.00	21.03	Pass	V	PK

Note:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading -Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

