

MRT Technology (Suzhou) Co., Ltd Phone: +86-512-66308358 Web: www.mrt-cert.com

Report Version:

Report No.: 1905WSU015-U1

11-12-2019

Issue Date:

MEASUREMENT REPORT

FCC PART 15 Subpart C Bluetooth-LE

FCC ID: 2AQVU0005

APPLICANT: JOYTECH HEALTHCARE CO., LTD.

Certification **Application Type:**

Product: Arm-type Fully Automatic Digital Blood Pressure Monitor

Model No.: DBP-1307b, DBP-1305b, DBP-1319b, DBP-1318b,

DBP-1332b, DBP-1333b, DBP-1257b, DBP-1358b,

DBP-1359b

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part15 Subpart C (Section 15.247)

Test Procedure(s): ANSI C63.10-2013, KDB 558074 D01v05r02

Test Date: May 27 ~ November 05, 2019

Reviewed By:

Approved By:

(Robin Wu)

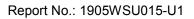


The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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Revision History

Report No.	Version	Description	Issue Date	Note	
1905WSU015-U1	Rev. 01	Initial Report	11-12-2019	Valid	

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§2.1033 General Information

Applicant:	JOYTECH HEALTHCARE CO., LTD.					
Applicant Address:	No. 365, Wuzhou Road, Yuhang Economic Development Zone,					
	Hangzhou City, 311100 Zhejiang, China					
Manufacturer:	JOYTECH HEALTHCARE CO., LTD.					
Manufacturer Address:	No. 365, Wuzhou Road, Yuhang Economic Development Zone,					
	Hangzhou City, 311100 Zhejiang, China					
Test Site:	MRT Technology (Suzhou) Co., Ltd					
Test Site Address:	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic					
	Development Zone, Suzhou, China					
Test Device Serial No.:	N/A ☐ Production ☐ Pre-Production ☐ Engineering					

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 893164) test facility with the site description report on file and has met all the requirements specified in ANSI C63.4-2014.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-20025, G-20034, C-20020, T-20020) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications, Radio and SAR testing.



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1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The measurement facility compliant with the test site requirements specified in ANSI C63.4-2014.



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2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name:	Arm-type Fully Automatic Digital Blood Pressure Monitor				
Model No.:	DBP-1307b, DBP-1305b, DBP-1319b, DBP-1318b, DBP-1332b,				
woder No	DBP-1333b, DBP-1257b, DBP-1358b, DBP-1359b				
Bluetooth Specification:	v5.0				
Accessory					
	Model: MPSUL0801000				
Adapter:	INPUT: 100-240V~ 50/60Hz 0.25A				
	OUTPUT: 5V/1000mA				

2.2. Modes Differences

The same parts as follows between these models:

Electronics & electrical designs, including software & firmware & PCB Layout

The only differences between these models are the follows for marketing purpose:

Model Name & Color & Construction & Design & Physical Design & Enclosure

- The appearances are different due to different shape shells used. It verified that the materials of Construction Design for all models are the same.
- 2. The display sizes in each model are different, and the model with largest display considered as the main model.

Basing on the differences above, the model with largest size display DBP-1307b was selected as main model, and full tests for conducted signal performed on it. In case of radiated emission, we tested three typical models that have largest size (DBP-1307b), middle size(DBP-1359b) and smallest size display (DBP-1257b) respectively, only worst-case results reported.

2.3. Product Specification Subjective to this Report

Bluetooth Frequency:	2402~2480MHz
Type of modulation:	GFSK
Data Rate:	1Mbps, 2Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	0.5dBi

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2.4. Working Frequencies for this Report

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

2.5. Test Mode

Test Mode	Mode 1: Transmit by Bluetooth v5.0 (1Mbps)
	Mode 2: Transmit by Bluetooth v5.0 (2Mbps)

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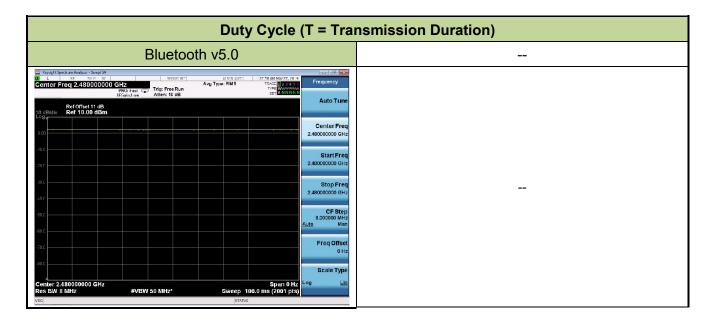
2.6. Device Capabilities

This device contains the following capabilities:

Bluetooth v5.0

Note: The maximum achievable duty cycles was determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode		Duty Cycle		
	Bluetooth v5.0	100%		



2.7. Test Configuration

The device was tested per the guidance of ANSI C63.10-2013. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

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2.8. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.9. Description of Test Software

The test utility software used during testing was "PhyPlusKit".

2.10. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

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3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance was used in the measurement of the device.

Deviation from measurement procedure......None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, $50\Omega/50$ uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions were used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

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3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the Antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable. For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive Antenna height using a broadband Antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn Antennas were used. For frequencies below 30MHz, a calibrated loop Antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband Antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive Antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn Antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive Antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive Antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn Antenna, the horn Antenna should be always directed to the EUT when rising height.

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4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the device is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

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5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2020/04/15
Two-Line V-Network	R&S	ENV 216	MRTSUE06002	1 year	2020/06/13
Two-Line V-Network	R&S	ENV 216	MRTSUE06003	1 year	2020/06/13
Thermohygrometer	Testo	608-H1	MRTSUE06404	1 year	2020/08/08
Shielding Room	MIX-BEP	Chamber-SR2	MRTSUE06215	N/A	N/A

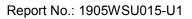
Radiated Emissions - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2020/08/01
PXA Signal Analyzer	Keysight	9030B	MRTSUE06395	1 year	2020/09/03
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2019/11/09
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2020/03/31
Broad Band Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2020/10/13
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2019/12/17
Microwave System Amplifier	Agilent	83017A	MRTSUE06076	1 year	2019/11/16
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2020/06/11
Thermohygrometer	Testo	608-H1	MRTSUE06403	1 year	2020/08/08
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06212	1 year	2020/04/30

Radiated Emission - AC2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
		7.			
Spectrum Analyzer	Keysight	N9038A	MRTSUE06125	1 year	2020/08/01
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2019/11/09
Bilog Period Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2020/10/13
Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06171	1 year	2019/11/09
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2019/12/17
Broadband Coaxial					
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2019/11/16
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2020/06/11
Temperature/Humidity Meter	Minggao	ETH529	MRTSUE06170	1 year	2019/12/13
Anechoic Chamber	RIKEN	Chamber-AC2	MRTSUE06213	1 year	2020/04/30

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Conducted Test Equipment - TR3

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2020/04/15
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06452	1 year	2020/07/11
Signal Analyzer	R&S	FSV40	MRTSUE06218	1 year	2020/04/15
Power Meter	Agilent	U2021XA	MRTSUE06030	1 year	2019/11/16
USB wideband power sensor	Keysight	U2021XA	MRTSUE06446	1 year	2020/06/30
USB wideband power sensor	Keysight	U2021XA	MRTSUE06447	1 year	2020/06/30
Bluetooth Test Set	Anritsu	MT8852B-042	MRTSUE06389	1 year	2020/06/13
Audio Analyzer	Agilent	U8903B	MRTSUE06143	1 year	2020/06/13
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	1 year	2019/11/16
DC Power Supply	GWINSTEK	DPS-3303C	MRTSUE06064	N/A	N/A
Temperature & Humidity Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2019/11/16
Thermohygrometer	testo	608-H1	MRTSUE06401	1 year	2020/08/08

Software	Version	Function
EMI Software	V3	EMI Test Software

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6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

AC Conducted Emission Measurement - SR2

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

9kHz~150kHz: 3.84dB 150kHz~30MHz: 3.46dB

Radiated Emission Measurement- AC1

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

Horizontal: 30MHz~300MHz: 4.07dB

300MHz~1GHz: 3.63dB 1GHz~18GHz: 4.16dB

Vertical: 30MHz~300MHz: 4.18dB

300MHz~1GHz: 3.60dB 1GHz~18GHz: 4.76dB

Radiated Emission Measurement- AC2

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

Horizontal: 30MHz~300MHz: 3.75dB

300MHz~1GHz: 3.53dB 1GHz~18GHz: 4.28dB

Vertical: 30MHz~300MHz: 3.86dB

300MHz~1GHz: 3.53dB 1GHz~18GHz: 4.33dB

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7. TEST RESULT

7.1. Summary

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	≥ 500kHz		Pass	Section 7.2
15.247(b)(3)	Output Power	ıtput Power ≤ 1Watt	Pass	Section 7.3	
15.247(e)	Power Spectral Density	≤ 8dBm / 3kHz	Conducted	Pass	Section 7.4
15.247(d)	Band Edge / Out-of-Band Emissions	≥ 20dBc(Peak)		Pass	Section 7.5
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass	Section 7.6 & 7.7
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.8

Notes:

- 1) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 2) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.

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7.2. 6dB Bandwidth Measurement

7.2.1.Test Limit

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

7.2.2.Test Procedure used

ANSI C63.10-2013 Section 11.8

7.2.3.Test Setting

- The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. Set RBW = 100 kHz
- 3. VBW ≥ 3 × RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. Allow the trace was allowed to stabilize

7.2.4.Test Setup

Spectrum Analyzer attenuator EUT

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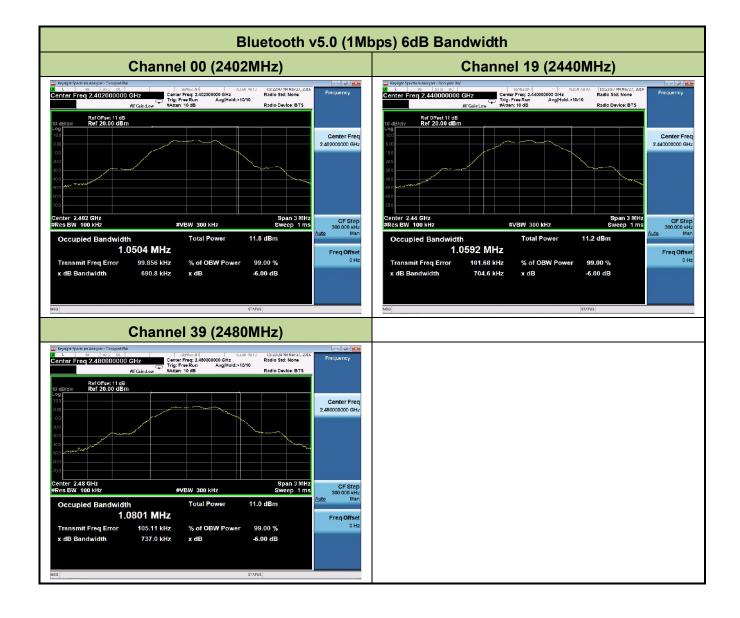
7.2.5.Test Result

Product	Arm-type Fully Automatic Digital Blood Pressure Monitor	Temperature	25°C
Test Engineer	Ternence Wang	Relative Humidity	56%
Test Site	TR3	Test Date	2019/05/27

Test Mode	Data Rate	Channel No.	Frequency	6dB Bandwidth	Limit	Result
	(Mbps)		(MHz)	(MHz)	(MHz)	
	1	00	2402	0.69	≥ 0.5	Pass
	1	19	2440	0.70	≥ 0.5	Pass
Bluetooth	1	39	2480	0.74	≥ 0.5	Pass
v5.0	2	00	2402	1.17	≥ 0.5	Pass
	2	19	2440	1.18	≥ 0.5	Pass
	2	39	2480	1.18	≥ 0.5	Pass

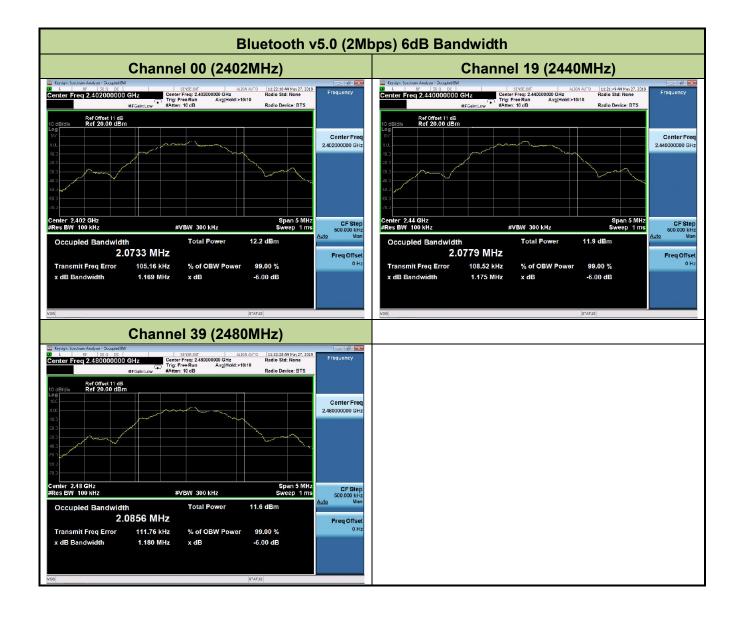
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7.3. Output Power Measurement

7.3.1.Test Limit

The maximum out power shall be less 1 Watt (30dBm).

7.3.2.Test Procedure Used

ANSI C63.10 Section 11.9.1.3

ANSI C63.10 Section 11.9.2.3

7.3.3.Test Setting

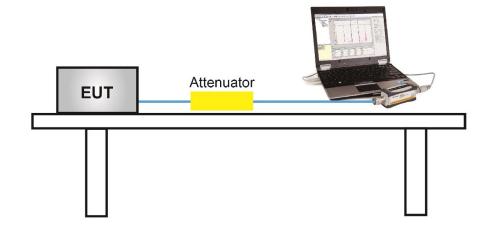
Method PKPM1 (Peak Power Measurement)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

Method AVGPM-G (Measurement using a gated RF average-reading power meter)

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since this measurement is made only during the ON time of the transmitter, no duty cycle correction is required.

7.3.4.Test Setup



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7.3.5.Test Result

Product	Arm-type Fully Automatic Digital Blood Pressure Monitor	Temperature	25°C
Test Engineer	Ternence Wang	Relative Humidity	56%
Test Site	TR3	Test Date	2019/05/27

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency	Peak Power	Limit	Result
	(Mbps)		(MHz)	(dBm)	(dBm)	
	1	00	2402	3.28	≤ 30.00	Pass
	1	19	2440	3.03	≤ 30.00	Pass
Bluetooth	1	39	2480	2.61	≤ 30.00	Pass
v5.0	2	00	2402	3.30	≤ 30.00	Pass
	2	19	2440	3.05	≤ 30.00	Pass
-	2	39	2480	2.61	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency	Average	Limit	Result
	(Mbps)		(MHz)	Power (dBm)	(dBm)	
	1	00	2402	3.01	≤ 30.00	Pass
	1	19	2440	2.74	≤ 30.00	Pass
Bluetooth	1	39	2480	2.30	≤ 30.00	Pass
v5.0	2	00	2402	3.02	≤ 30.00	Pass
	2	19	2440	2.75	≤ 30.00	Pass
	2	39	2480	2.30	≤ 30.00	Pass

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7.4. Power Spectral Density Measurement

7.4.1.Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

7.4.2.Test Procedure Used

ANSI C63.10 Section 11.10.6

7.4.3.Test Setting

- 1. Analyzer was set to the center frequency of the DTS channel under investigation
- 2. Span = 1.5 times the DTS channel bandwidth
- 3. RBW = 3kHz
- 4. VBW = 10kHz
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Trace was allowed to stabilize

7.4.4.Test Setup

Spectrum Analyzer attenuator EUT

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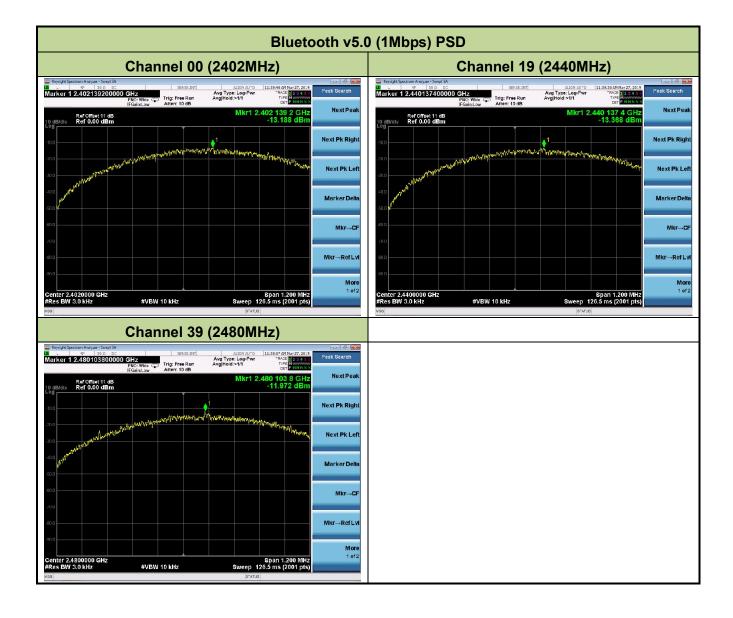
7.4.5.Test Result

Product	Arm-type Fully Automatic Digital Blood Pressure Monitor	Temperature	25°C
Test Engineer	Ternence Wang	Relative Humidity	56%
Test Site	TR3	Test Date	2019/05/27

Test Mode	Data Rate	Channel No.	Frequency	PSD Result	Limit	Result
	(Mbps)		(MHz)	(dBm / 3kHz)	(dBm / 3kHz)	
	1	00	2402	-13.19	≤ 8.00	Pass
	1	19	2440	-13.37	≤ 8.00	Pass
Bluetooth	1	39	2480	-11.97	≤ 8.00	Pass
v5.0	2	00	2402	-17.29	≤ 8.00	Pass
	2	19	2440	-18.34	≤ 8.00	Pass
	2	39	2480	-17.89	≤ 8.00	Pass

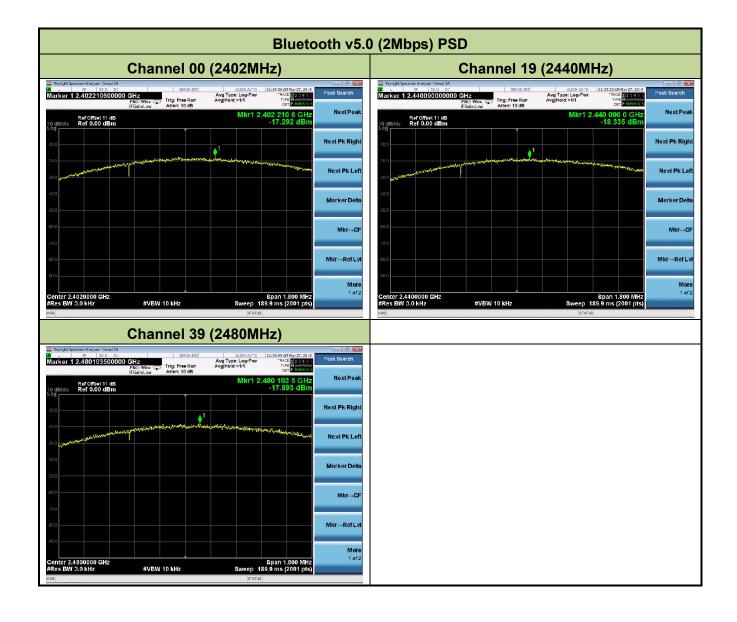
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7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1.Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100KHz bandwidth per the PSD procedure.

7.5.2.Test Procedure Used

ANSI C63.10 Section 11.11

7.5.3.Test Settitng

Reference level measurement

- 1. Set instrument center frequency to DTS channel center frequency
- 2. Set the span to ≥ 1.5 times the DTS bandwidth
- 3. Set the RBW = 100 kHz
- 4. Set the VBW ≥ 3 x RBW
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Allow trace to fully stabilize

Emission level measurement

- 1. Set the center frequency and span to encompass frequency range to be measured
- 2. RBW = 1.3MHz
- 3. VBW = 4MHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

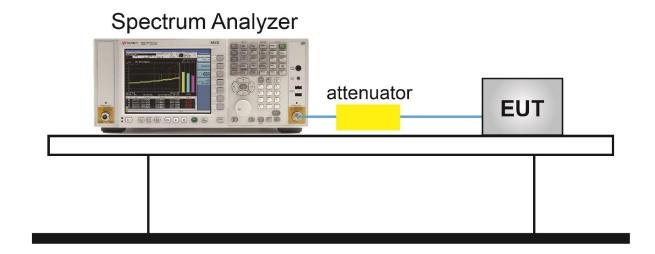
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Test Notes

- 1. RBW was set to 1.3MHz rather than 100 kHz in order to increase the measurement speed.
- 2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100 kHz bandwidth. However, since the traces in the following plots are measured with a 1.3MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1.3MHz bandwidth.
- For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.

7.5.4.Test Setup



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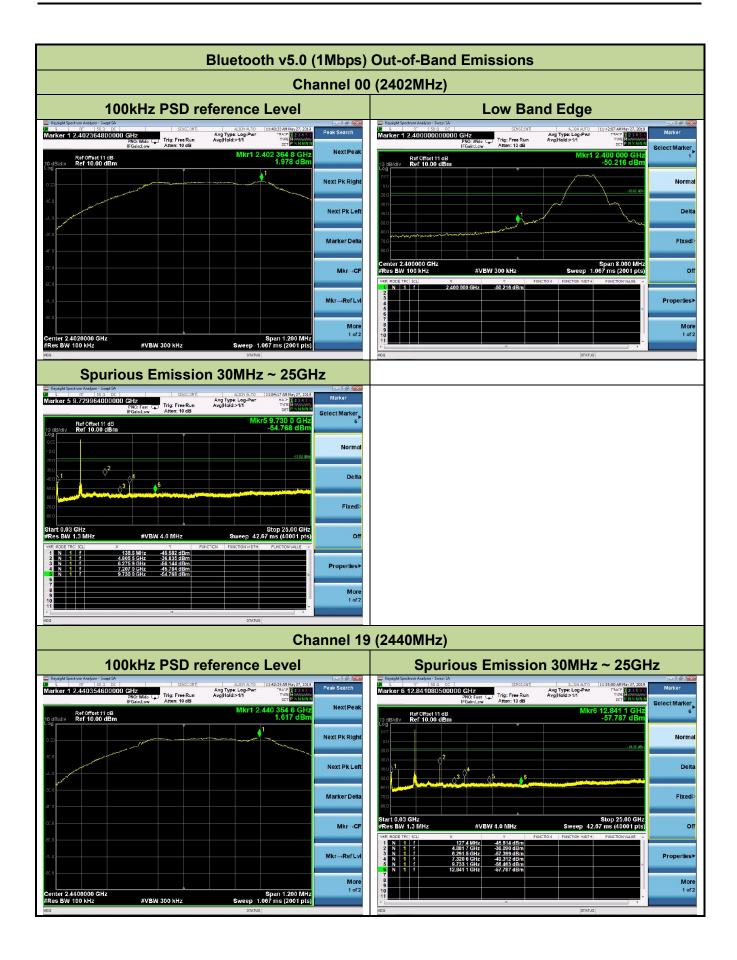
7.5.5.Test Result

Product	Arm-type Fully Automatic Digital Blood Pressure Monitor	Temperature	25°C
Test Engineer	Ternence Wang	Relative Humidity	56%
Test Site	SR2	Test Date	2019/05/27

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Limit	Result
	1	00	2402	20dBc	Pass
	1	19	2440	20dBc	Pass
Divista atta v. 5. O	1	39	2480	20dBc	Pass
Bluetooth v5.0	2	00	2402	20dBc	Pass
	2	19	2440	20dBc	Pass
	2	39	2480	20dBc	Pass

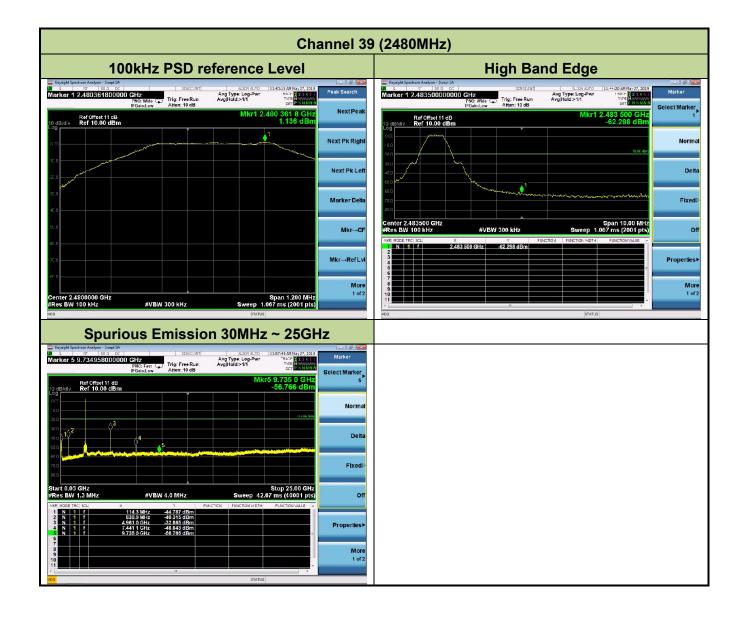
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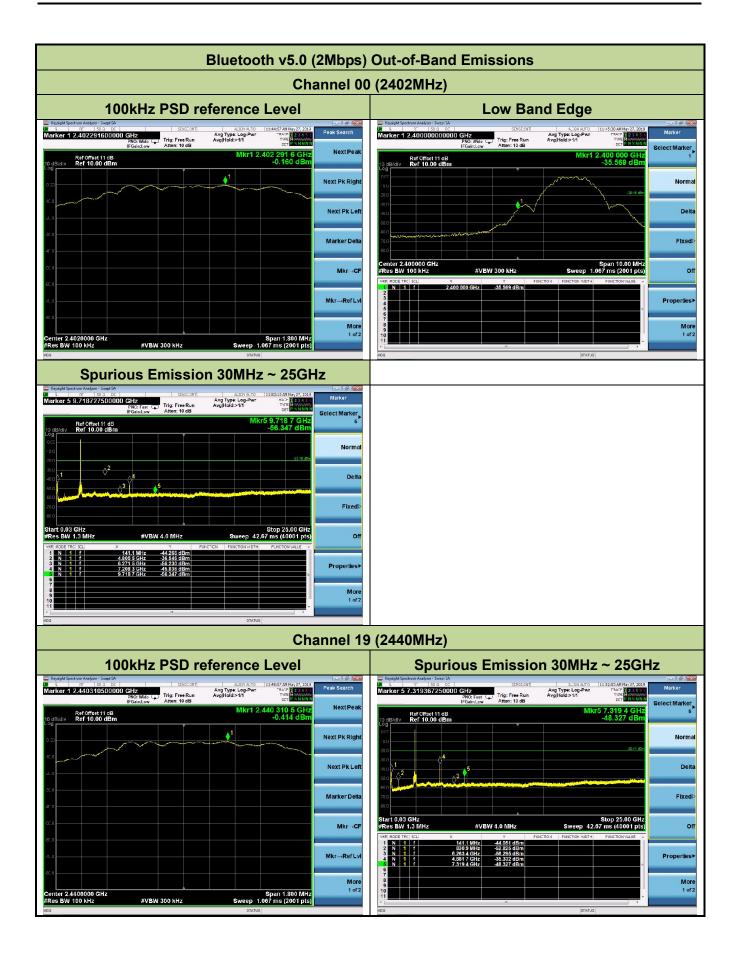
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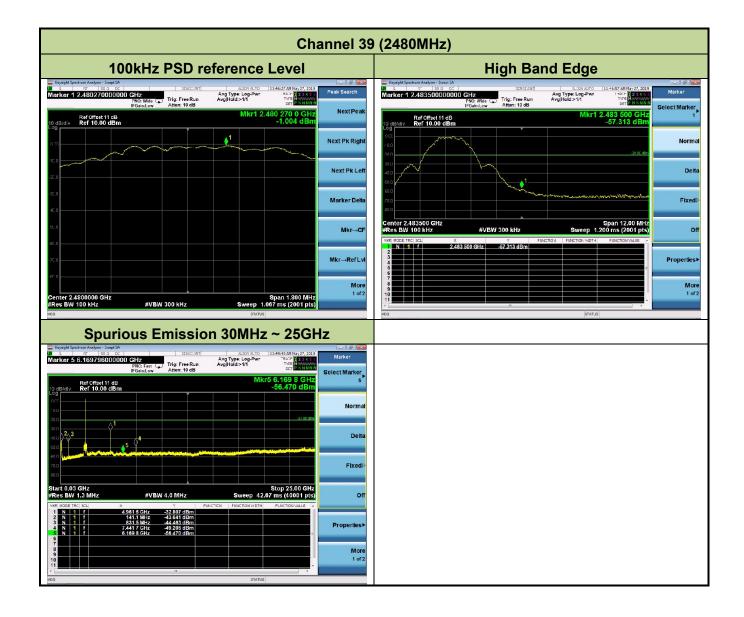
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7.6. Radiated Spurious Emission Measurement

7.6.1.Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency	Field Strength	Measured Distance
[MHz]	[uV/m]	[Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.6.3.Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

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Quasi-Peak Measurements below 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = as specified in Table 1
- 4. Detector = CISPR quasi-peak or average
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

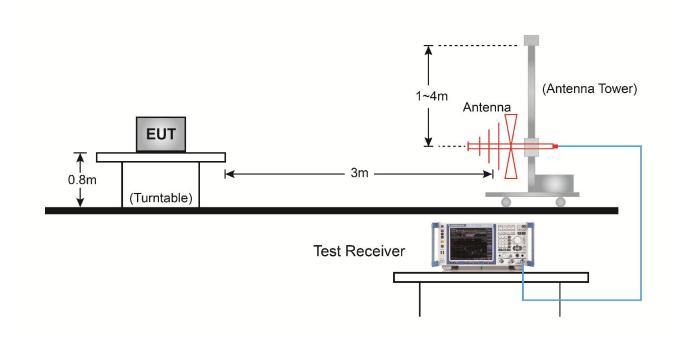
- 4. Detector = Peak
- 5. Sweep time = auto
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

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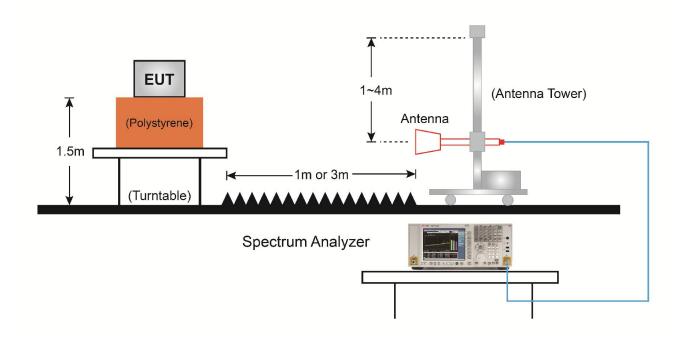


7.6.4.Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



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7.6.5.Test Result

Product	Arm-type Fully Automatic Digital Blood Pressure Monitor	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/06/01
Test Mode:	Bluetooth v5.0 (1Mbps)	Test Channel:	00
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		Ç

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4315.0	37.3	3.6	40.9	74.0	-33.1	Peak	Horizontal
	4808.0	42.2	5.6	47.8	74.0	-26.2	Peak	Horizontal
*	6499.5	36.3	9.4	45.7	74.0	-28.3	Peak	Horizontal
*	7205.0	47.6	11.6	59.2	74.0	-14.8	Peak	Horizontal
	4026.0	38.6	2.6	41.2	74.0	-32.8	Peak	Vertical
	4808.0	42.7	5.6	48.3	74.0	-25.7	Peak	Vertical
*	6151.0	34.5	7.9	42.4	74.0	-31.6	Peak	Vertical
*	7205.0	45.2	11.6	56.8	74.0	-17.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (93.2dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Product	Arm-type Fully Automatic Digital Blood Pressure Monitor	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/06/01
Test Mode:	Bluetooth v5.0 (1Mbps)	Test Channel: 19	
Remark:	 Average measurement was no limit. So the margin was calcul within the restricted bands. Other frequency was 20dB bel in the report. 	ated using the avera	age limit for emissions fall

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
*	6270.0	35.6	8.4	44.0	74.0	-30.0	Peak	Horizontal
	7320.3	44.9	11.7	56.6	74.0	-17.4	Peak	Horizontal
	7320.3	38.0	11.7	49.7	54.0	-4.3	Average	Horizontal
*	8539.5	35.1	12.8	47.9	74.0	-26.1	Peak	Horizontal
	9466.0	34.0	15.0	49.0	74.0	-25.0	Peak	Horizontal
	7320.3	44.0	11.7	55.7	74.0	-18.3	Peak	Vertical
	7320.3	38.6	11.7	50.3	54.0	-3.7	Average	Vertical
*	8828.5	34.7	13.4	48.1	74.0	-25.9	Peak	Vertical
*	10035.5	33.5	16.1	49.6	74.0	-24.4	Peak	Vertical
	11327.5	34.3	17.6	51.9	74.0	-22.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (92.3dBµV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Product	Arm-type Fully Automatic Digital Blood Pressure Monitor	Temperature	25°C	
Test Engineer	Bacon Dong	Relative Humidity	54%	
Test Site	AC1	Test Date	2019/06/01	
Test Mode:	Bluetooth v5.0 (1Mbps)	Test Channel: 39		
Remark:	 Average measurement was no limit. So the margin was calcul within the restricted bands. Other frequency was 20dB bel in the report. 	ated using the avera	age limit for emissions fall	

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4961.0	43.7	5.9	49.6	74.0	-24.4	Peak	Horizontal
	7440.3	44.4	11.9	56.3	74.0	-17.7	Peak	Horizontal
	7440.3	36.7	11.9	48.6	54.0	-5.4	Average	Horizontal
*	8896.5	34.1	13.3	47.4	74.0	-26.6	Peak	Horizontal
*	10316.0	33.1	16.6	49.7	74.0	-24.3	Peak	Horizontal
	5437.0	35.8	6.6	42.4	74.0	-31.6	Peak	Horizontal
	7440.5	44.8	11.9	56.7	74.0	-17.3	Peak	Vertical
	7440.5	38.8	11.9	50.7	54.0	-3.3	Average	Horizontal
*	8539.5	35.0	12.8	47.8	74.0	-26.2	Peak	Vertical
*	9899.5	34.2	16.1	50.3	74.0	-23.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (91.8dBµV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Product	Arm-type Fully Automatic Digital Blood Pressure Monitor	Temperature	25°C				
Test Engineer	Bacon Dong	Relative Humidity	54%				
Test Site	AC1	Test Date	2019/06/01				
Test Mode:	Bluetooth v5.0 (2Mbps)	Test Channel:	00				
Remark:	Average measurement was no	t performed if peak l	evel lower than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4808.0	41.0	5.6	46.6	74.0	-27.4	Peak	Horizontal
	5947.0	34.9	7.5	42.4	74.0	-31.6	Peak	Horizontal
*	8930.5	34.2	13.4	47.6	74.0	-26.4	Peak	Horizontal
*	11404.0	34.2	17.7	51.9	74.0	-22.1	Peak	Horizontal
	4799.5	43.3	5.5	48.8	74.0	-25.2	Peak	Vertical
	6049.0	35.0	7.4	42.4	74.0	-31.6	Peak	Vertical
*	7205.0	44.6	11.6	56.2	74.0	-17.8	Peak	Vertical
*	8318.5	34.7	12.3	47.0	74.0	-27.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (93.0dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Product	Arm-type Fully Automatic Digital Blood Pressure Monitor	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/06/01
Test Mode:	Bluetooth v5.0 (2Mbps)	Test Channel:	19
Remark:	Average measurement was no limit.	t performed if peak	level lower than average
	Other frequency was 20dB bell in the report.	ow limit line within 1	-18GHz, there is not show

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
*	6584.5	35.2	9.7	44.9	74.0	-29.1	Peak	Horizontal
*	7052.0	33.7	11.0	44.7	74.0	-29.3	Peak	Horizontal
	7319.2	43.4	11.7	55.1	74.0	-18.9	Peak	Horizontal
	7319.2	34.3	11.7	46.0	54.0	-8.0	Average	Horizontal
	8318.5	34.7	12.3	47.0	74.0	-27.0	Peak	Horizontal
	4876.0	43.9	5.7	49.6	74.0	-24.4	Peak	Vertical
*	7052.0	33.7	11.0	44.7	74.0	-29.3	Peak	Vertical
	7319.1	43.3	11.7	55.0	74.0	-19.0	Peak	Vertical
	7319.1	34.5	11.7	46.2	54.0	-7.8	Average	Vertical
*	8735.0	34.5	13.2	47.7	74.0	-26.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (91.6dB μ V/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Product	Arm-type Fully Automatic Digital Blood Pressure Monitor	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/06/01
Test Mode:	Bluetooth v5.0 (2Mbps)	Test Channel:	39
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		Ç

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4961.0	43.9	5.9	49.8	74.0	-24.2	Peak	Horizontal
	7439.2	43.4	11.9	55.3	74.0	-18.7	Peak	Horizontal
	7439.2	33.6	11.9	45.5	54.0	-8.5	Average	Horizontal
*	8548.0	34.8	12.8	47.6	74.0	-26.4	Peak	Horizontal
*	9508.5	33.0	15.3	48.3	74.0	-25.7	Peak	Horizontal
	4961.0	43.2	5.9	49.1	74.0	-24.9	Peak	Horizontal
	7439.2	44.0	11.9	55.9	74.0	-18.1	Peak	Vertical
	7439.2	35.3	11.9	47.2	54.0	-6.8	Average	Horizontal
*	8981.5	33.6	13.4	47.0	74.0	-27.0	Peak	Vertical
*	9508.5	33.0	15.3	48.3	74.0	-25.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (90.8dB μ V/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

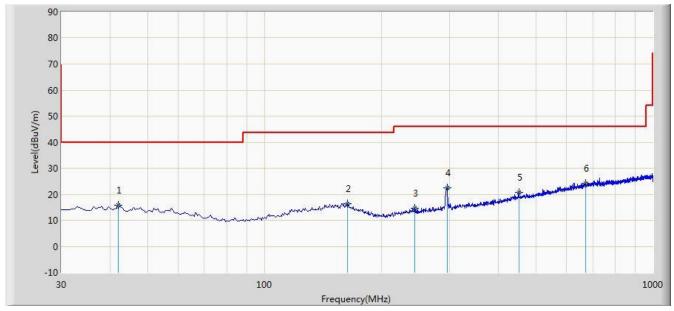
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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The Worst Case of Radiated Emission below 1GHz:

Site: AC1	Time: 2019/06/04 - 15:45				
Limit: FCC_Part15.209_RSE(3m)	Engineer: Michael Peng				
Probe: VULB 9168 _20-2000MHz	Polarity: Horizontal				
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB				
Monitor					
Test Mode: There is the worst case within frequency range 30MHz~1GHz					



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			42.125	15.896	1.347	-24.104	40.000	14.549	QP
2			163.860	16.310	1.251	-27.190	43.500	15.059	QP
3			243.400	14.744	1.682	-31.256	46.000	13.062	QP
4			295.295	22.524	8.120	-23.476	46.000	14.404	QP
5			451.465	20.766	2.668	-25.234	46.000	18.098	QP
6		*	671.655	24.325	2.239	-21.675	46.000	22.086	QP

Note 1: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

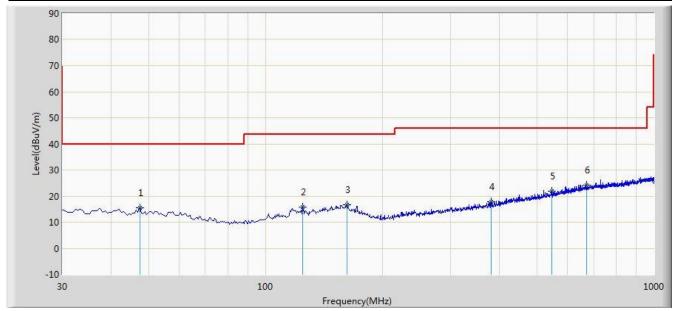
Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

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Time: 2019/06/04 - 15:47
Engineer: Michael Peng
Polarity: Vertical
Power: By USB

Test Mode: There is the worst case within frequency range 30MHz~1GHz.



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			47.460	15.552	1.271	-24.448	40.000	14.281	QP
2			124.575	15.856	2.241	-27.644	43.500	13.615	QP
3			162.405	16.746	1.556	-26.754	43.500	15.191	QP
4			381.140	17.695	1.343	-28.305	46.000	16.352	QP
5			546.525	21.948	2.129	-24.052	46.000	19.819	QP
6		*	671.655	24.325	2.239	-21.675	46.000	22.086	QP

Note 1: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: $9kHz \sim 30MHz$, $18GHz \sim 25GHz$), therefore no data appear in the report.

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7.7. Radiated Restricted Band Edge Measurement

7.7.1.Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency	Frequency	Frequency	Frequency	
(MHz)	(MHz)	(MHz)	(GHz)	
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15	
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46	
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75	
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5	
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2	
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5	
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7	
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4	
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5	
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2	
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4	
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12	
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0	
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8	
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5	
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)	
13.36 - 13.41				

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All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209							
Frequency	Field Strength	Measured Distance					
[MHz]	[uV/m]	[Meters]					
0.009 - 0.490	2400/F (kHz)	300					
0.490 - 1.705	24000/F (kHz)	30					
1.705 - 30	30	30					
30 - 88	100	3					
88 - 216	150	3					
216 - 960	200	3					
Above 960	500	3					

7.7.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.7.3.Test Setting

Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

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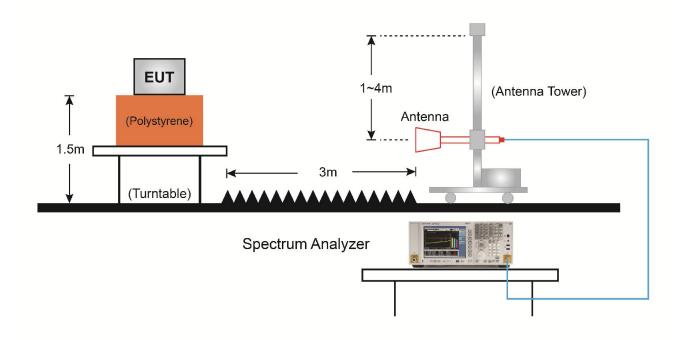
Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

If the EUT duty cycle is < 98%, set VBW $\ge 1/T$. T is the minimum transmission duration.

- 4. Detector = Peak
- 5. Sweep time = auto
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

7.7.4.Test Setup

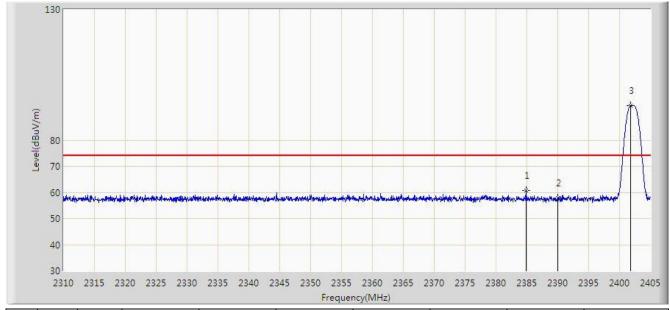


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7.7.5.Test Result

Site: AC1	Time: 2019/06/01 - 06:56			
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB			
Monitor				
Note: Transmit by BT 5.0 (1Mbps) at Channel 2402MHz				



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2384.860	60.607	28.185	-13.393	74.000	32.422	PK
2			2390.000	57.785	25.372	-16.215	74.000	32.413	PK
3		*	2401.817	93.223	60.827	N/A	N/A	32.396	PK

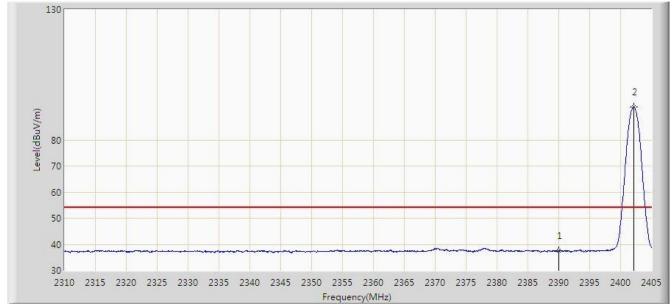
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC1	Time: 2019/06/01 - 07:02			
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB			
Monitor				
Note: Transmit by BT 5.0 (1Mbps) at Channel 2402MHz				



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	37.560	5.147	-16.440	54.000	32.413	AV
2		*	2402.150	92.482	60.086	N/A	N/A	32.396	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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50

40 30

Site: AC1	Time: 2019/06/01 - 07:04				
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong				
Probe: BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB				
Monitor					
Note: Transmit by BT 5.0 (1Mbps) at Channel 2402MHz					

130 (W/)80 70 70 60

No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2377.687	59.307	26.872	-14.693	74.000	32.436	PK
2			2390.000	57.969	25.556	-16.031	74.000	32.413	PK
3		*	2401.722	91.768	59.372	N/A	N/A	32.396	PK

2310 2315 2320 2325 2330 2335 2340 2345 2350 2355 2360 2365 2370 2375 2380 2385 2390 2395 2400 2405 Frequency(MHz)

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC1	Time: 2019/06/01 - 07:08
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB
Monitor	
Note: Transmit by BT 5.0 (1Mbps) at Channel 2402MH	7

130



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	37.508	5.095	-16.492	54.000	32.413	AV
2		*	2402.150	91.189	58.793	N/A	N/A	32.396	AV

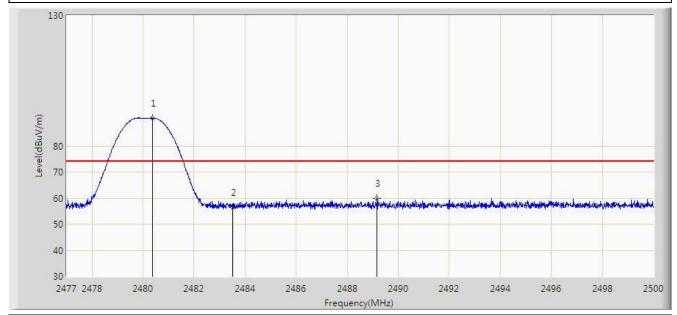
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC1	Time: 2019/06/01 - 07:09
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB
Monitor	
Note: Transmit by BT 5.0 (1Mbps) at Channel 2480MH	7



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.381	90.714	58.305	N/A	N/A	32.409	PK
2			2483.500	56.507	24.092	-17.493	74.000	32.416	PK
3			2489.167	59.899	27.472	-14.101	74.000	32.427	PK

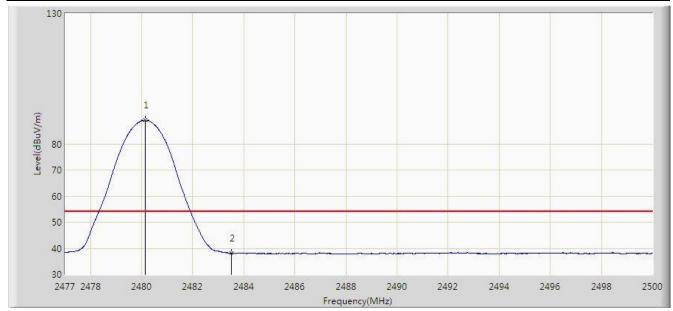
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

FCC ID: 2AQVU0005 Page Number: 53 of 70



Site: AC1	Time: 2019/06/01 - 07:11
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB
Monitor	
Note: Transmit by BT 5.0 (1Mbps) at Channel 2480MH	7



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.139	88.987	56.578	N/A	N/A	32.409	AV
2			2483.500	38.130	5.715	-15.870	54.000	32.416	AV

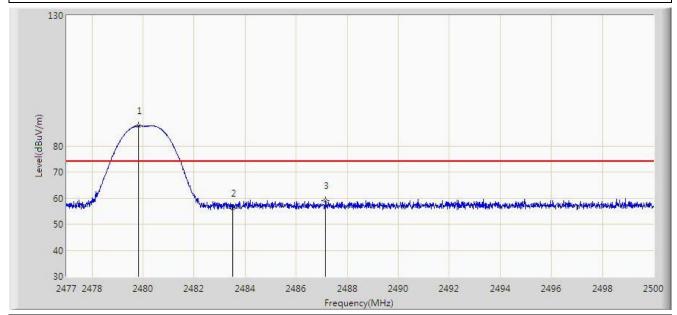
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC1	Time: 2019/06/01 - 07:12
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB
Monitor	
Note: Transmit by RT 5.0 (1Mbns) at Channel 2/80MH	7



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.829	87.647	55.239	N/A	N/A	32.408	PK
2			2483.500	55.949	23.534	-18.051	74.000	32.416	PK
3			2487.155	59.047	26.624	-14.953	74.000	32.422	PK

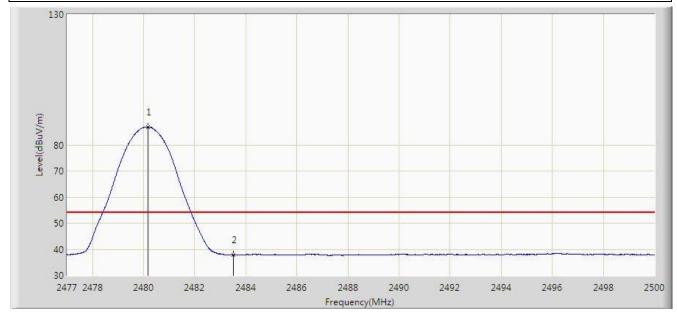
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC1	Time: 2019/06/01 - 07:14
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB
Monitor	
Note: Transmit by BT 5.0 (1Mbps) at Channel 2480MH	7



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.174	86.855	54.446	N/A	N/A	32.409	AV
2			2483.500	37.881	5.466	-16.119	54.000	32.416	AV

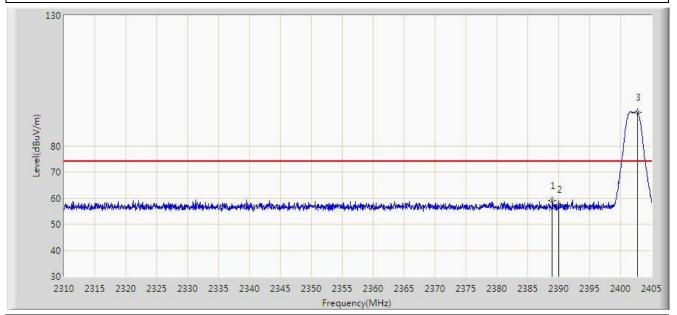
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC1	Time: 2019/06/01 - 07:15
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB
Monitor	
Note: Transmit by BT 5.0 (2Mbps) at Channel 2402MH	7



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2388.945	59.060	26.645	-14.940	74.000	32.415	PK
2			2390.000	57.548	25.135	-16.452	74.000	32.413	PK
3		*	2402.720	93.013	60.618	N/A	N/A	32.395	PK

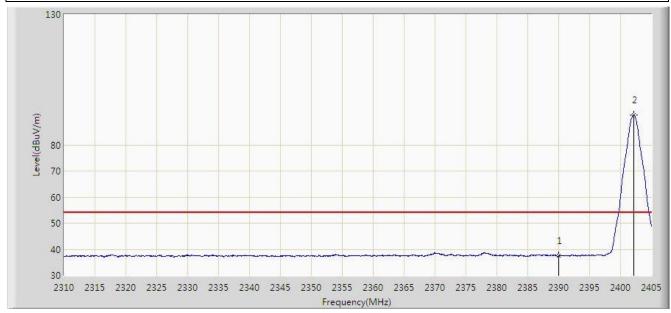
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC1	Time: 2019/06/01 - 07:17
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB
Monitor	
Note: Transmit by BT 5.0 (2Mbps) at Channel 2402MH	7



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	37.413	5.000	-16.587	54.000	32.413	AV
2		*	2402.150	91.312	58.916	N/A	N/A	32.396	AV

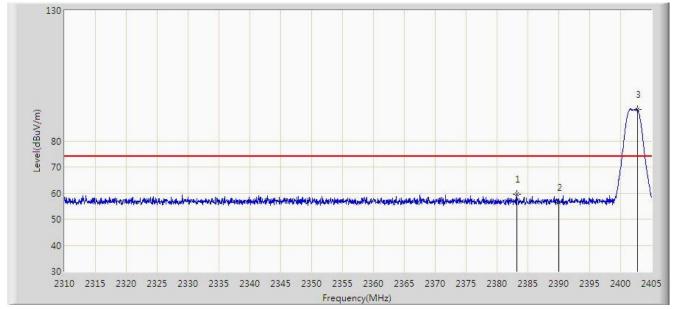
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC1	Time: 2019/06/01 - 07:18				
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong				
Probe: BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB				
Monitor					
Note: Transmit by BT 5.0 (2Mbps) at Channel 2402MHz					



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2383.198	59.637	27.212	-14.363	74.000	32.425	PK
2			2390.000	56.394	23.981	-17.606	74.000	32.413	PK
3		*	2402.720	92.060	59.665	N/A	N/A	32.395	PK

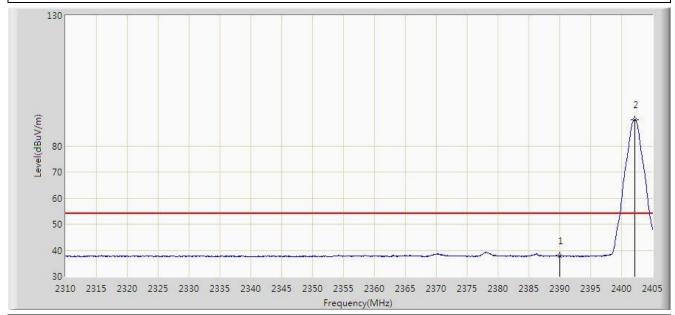
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC1	Time: 2019/06/01 - 07:20					
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong					
Probe: BBHA9120D_1-18GHz	Polarity: Vertical					
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB					
Monitor						
Note: Transmit by BT 5.0 (2Mbps) at Channel 2402MHz						



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	37.824	5.411	-16.176	54.000	32.413	AV
2		*	2402.150	90.104	N/A	N/A	54.000	32.396	AV

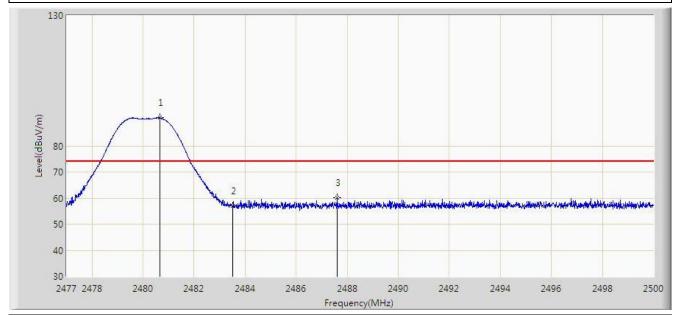
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC1	Time: 2019/06/01 - 07:22
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB
Monitor	
Note: Transmit by RT 5.0 (2Mbns) at Channel 2480MH	7



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.668	90.757	58.347	N/A	N/A	32.409	PK
2			2483.500	57.064	24.649	-16.936	74.000	32.416	PK
3			2487.615	60.013	27.589	-13.987	74.000	32.424	PK

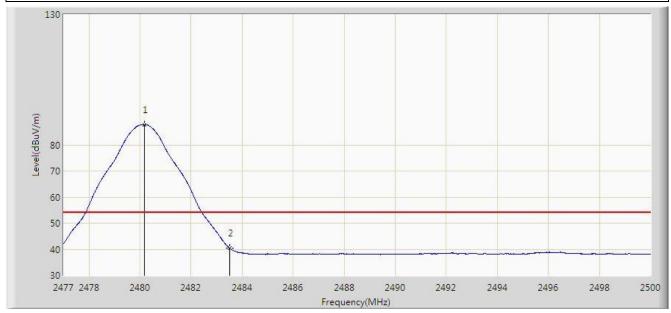
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC1	Time: 2019/06/01 - 07:24
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB
Monitor	
Note: Transmit by BT 5.0 (2Mbps) at Channel 2480MH	7



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.174	87.794	55.385	N/A	N/A	32.409	AV
2			2483.500	40.330	7.915	-13.670	54.000	32.416	AV

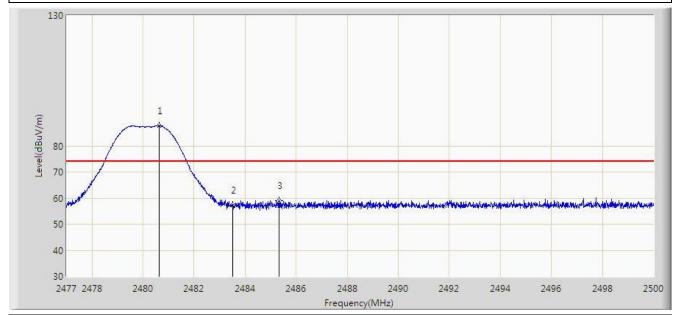
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC1	Time: 2019/06/01 - 07:25
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB
Monitor	
Note: Transmit by BT 5.0 (2Mbps) at Channel 2480MH	7



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.634	87.646	55.236	N/A	N/A	32.409	PK
2			2483.500	57.204	24.789	-16.796	74.000	32.416	PK
3			2485.326	59.100	26.681	-14.900	74.000	32.419	PK

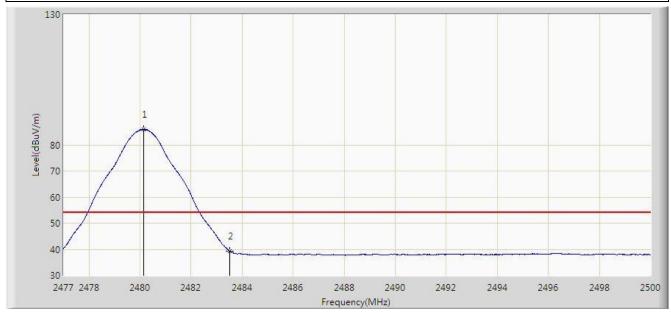
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC1	Time: 2019/06/01 - 07:27					
Limit: FCC_Part15_RE(3m)	Engineer: Bacon Dong					
Probe: BBHA9120D_1-18GHz	Polarity: Vertical					
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: By USB					
Monitor						
Note: Transmit by RT 5.0 (2Mbps) at Channel 2480MHz						



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.139	85.852	53.443	N/A	N/A	32.409	AV
2			2483.500	39.363	6.948	-14.637	54.000	32.416	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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7.8. AC Conducted Emissions Measurement

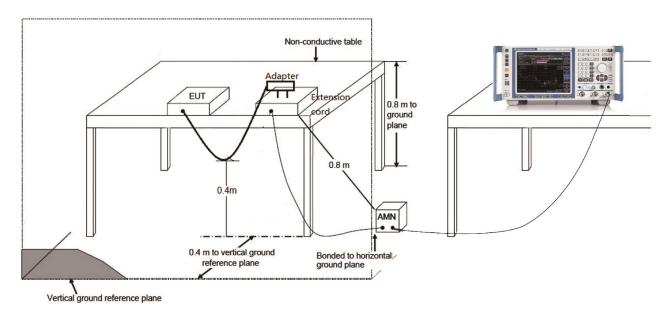
7.8.1.Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits						
Frequency (MHz)	QP (dBuV)	AV (dBuV)				
0.15 - 0.50	66 - 56	56 - 46				
0.50 - 5.0	56	46				
5.0 - 30	60	50				

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2.Test Setup

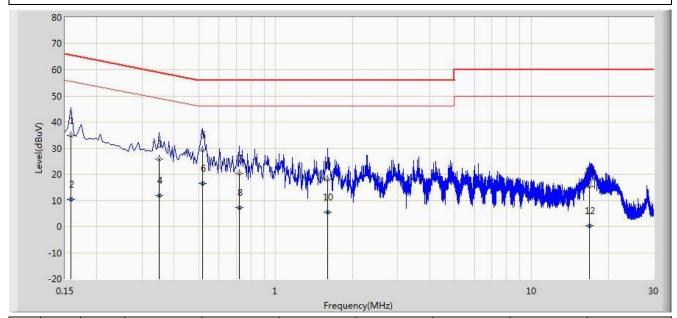


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7.8.3.Test Result

Site: SR2	Time: 2019/10/09 - 13:43		
Limit: FCC_Part15.207_CE_AC Power	Engineer: Liz Yuan		
Probe: ENV216_101683_Filter On	Polarity: Line		
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: AC 120V/60Hz		
Monitor			
Test Mode: Worst case Mode			



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1			0.158	34.884	24.573	-30.684	65.568	10.311	QP
2			0.158	10.475	0.164	-45.093	55.568	10.311	AV
3			0.350	25.896	15.851	-33.067	58.962	10.044	QP
4			0.350	11.840	1.795	-37.123	48.962	10.044	AV
5		*	0.518	29.295	19.139	-26.705	56.000	10.156	QP
6			0.518	16.444	6.288	-29.556	46.000	10.156	AV
7			0.722	20.323	10.272	-35.677	56.000	10.052	QP
8			0.722	7.129	-2.922	-38.871	46.000	10.052	AV
9			1.598	18.050	8.164	-37.950	56.000	9.886	QP
10			1.598	5.461	-4.425	-40.539	46.000	9.886	AV
11			16.890	15.364	5.296	-44.636	60.000	10.068	QP
12			16.890	0.261	-9.807	-49.739	50.000	10.068	AV

Note: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

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-20 0.15

Site: SR2	Time: 2019/10/09 - 13:56		
Limit: FCC_Part15.207_CE_AC Power	Engineer: Liz Yuan		
Probe: ENV216_101683_Filter On	Polarity: Neutral		
EUT: Arm-type Fully Automatic Digital Blood Pressure	Power: AC 120V/60Hz		
Monitor			
Test Mode: Worst case Mode			

80 70 60 50 10 10 10

Frequency(MHz)

No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1			0.154	36.416	25.700	-29.366	65.781	10.716	QP
2			0.154	12.916	2.200	-42.866	55.781	10.716	AV
3			0.166	31.560	21.489	-33.598	65.158	10.071	QP
4			0.166	10.964	0.893	-44.194	55.158	10.071	AV
5			0.342	29.963	19.894	-29.192	59.155	10.069	QP
6			0.342	14.891	4.822	-34.264	49.155	10.069	AV
7		*	0.522	35.226	25.052	-20.774	56.000	10.174	QP
8			0.522	19.945	9.771	-26.055	46.000	10.174	AV
9			0.926	26.461	16.511	-29.539	56.000	9.950	QP
10			0.926	10.448	0.498	-35.552	46.000	9.950	AV
11			17.002	14.987	4.871	-45.013	60.000	10.116	QP
12			17.002	2.798	-7.318	-47.202	50.000	10.116	AV

Note: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

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8. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15C of the FCC rules.

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— The End



Appendix A - Test Setup Photograph

Refer to "1905WSU015-UT" file.

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Appendix B - EUT Photograph

Refer to "1905WSU015-UE" file.

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