

FCC Part 15C Measurement and Test Report

For

Shenzhen Fitcare Electronics Co., Ltd

6th Floor(south), Building A, Dingxin Science Park Honglang

North 2nd Road, Bao'an, Shenzhen, China

FCC ID: 2ACN7HW702A

FCC Rule(s):	<u>FCC Part 15.249</u>
Product Description:	<u>Fitness Wristband</u>
Tested Model:	<u>HW702A</u>
Report No.:	<u>STR17098079I-2</u>
Sample Receipt Date:	<u>2017-09-07</u>
Tested Date:	<u>2017-09-08 to 2017-11-10</u>
Issued Date:	<u>2017-11-10</u>
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Shenzhen Fitcare Electronics Co., Ltd
Address of applicant: 6th Floor(south), Building A, Dingxin Science Park,
67 District, Bao'an, Shenzhen, China

Manufacturer: Shenzhen Fitcare Electronics Co., Ltd
Address of manufacturer: 6th Floor(south), Building A, Dingxin Science Park Honglang
North 2nd Road, Bao'an, Shenzhen, China

General Description of EUT	
Product Name:	Fitness Wristband
Brand Name:	/
Model No.:	HW702A
Adding Model(s):	HW702, HW703, HW704, HW705
Rated Voltage:	DC 3.7V Battery
Battery Capacity:	90mAh
Software Version:	/
Hardware Version:	/
<i>Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model HW702A, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	2403-2480MHz
Max. Field Strength:	91.66dBuV/m (3m)
Data Rate:	1Mbps
Modulation:	GFSK
Antenna Type:	Integral
Antenna Gain:	1.75dBi
Lowest Internal Frequency of EUT:	32.768kHz

1.2 Test Standards

The following report is prepared on behalf of the Shenzhen Fitcare Electronics Co., Ltd in accordance with FCC Part 15, Subpart B, Subpart C, and section 15.107, 15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.107,15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.4 Test Facility

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	Low Channel	2403MHz
TM2	Middle Channel	2442MHz
TM3	High Channel	2480MHz

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	$\pm 2.88\text{dB}$
Transmitter Spurious Emissions	Radiated	$\pm 5.1\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2017-06-12	2018-06-11
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2017-06-12	2018-06-11
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2017-06-12	2018-06-11
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2017-06-12	2018-06-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2017-06-12	2018-06-11
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2018-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2018-06-07
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-08	2018-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2018-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2017-06-12	2018-06-11
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2017-06-12	2018-06-11
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2017-06-12	2018-06-11
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2017-08-15	2018-08-14
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2017-08-15	2018-08-14
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2017-06-12	2018-06-11
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2017-03-09	2018-03-08

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 15.203	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.209(a)(f)	Radiated Spurious Emissions	Compliant
§15.249(a)	Field Strength of Emissions	Compliant
§15.249(d)	Out of Band Emission	Compliant
§15.215 (c)	Emission Bandwidth	Compliant

3. Antenna Requirements

3.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Test Result

This product has an integral antenna, fulfill the requirement of this section.

4. Radiated Emissions

4.1 Standard Applicable

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of Harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

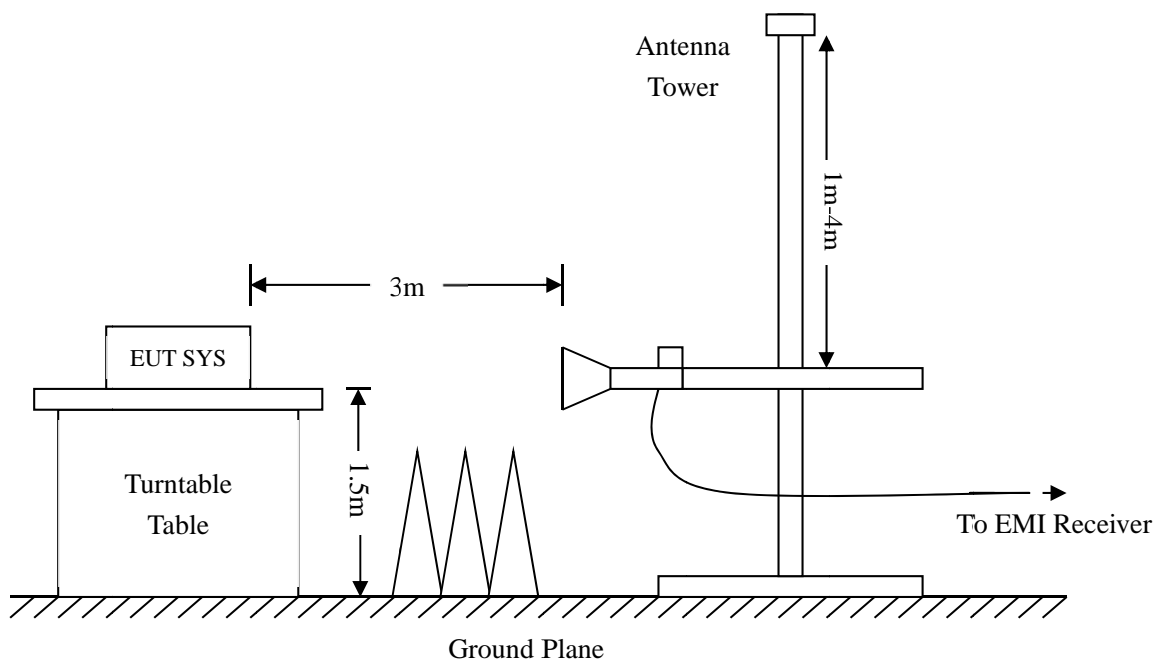
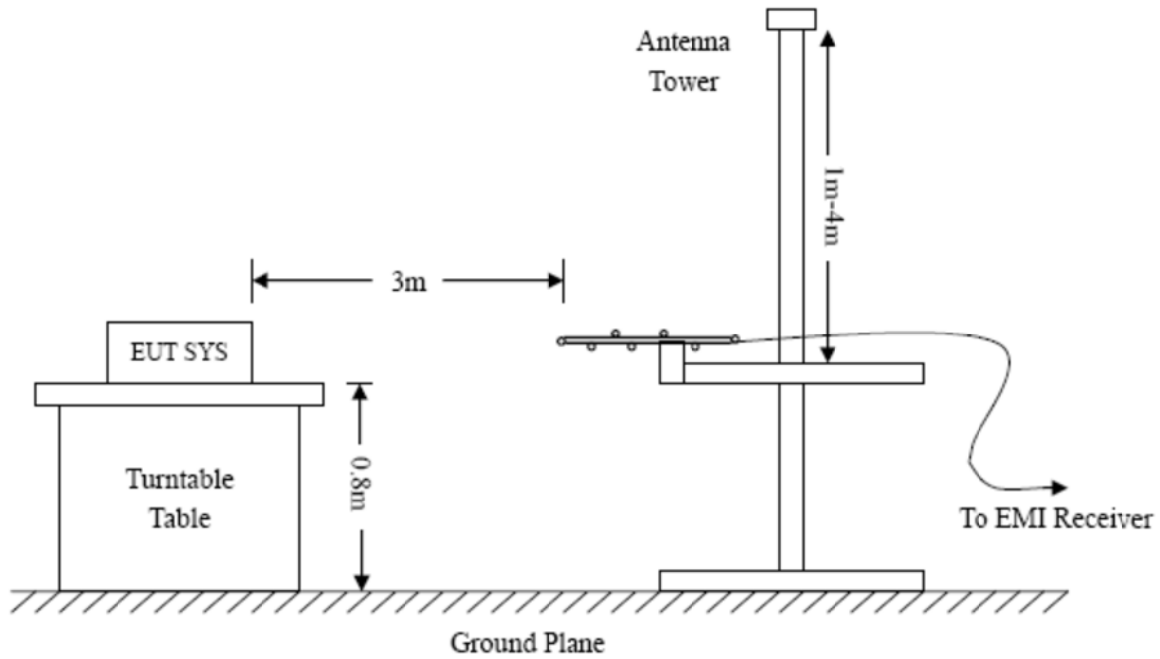
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

4.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.249(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.



Frequency :9kHz-30MHz
 RBW=10KHz,
 VBW =30KHz
 Sweep time= Auto
 Trace = max hold
 Detector function = peak

Frequency :30MHz-1GHz
 RBW=120KHz,
 VBW=300KHz
 Sweep time= Auto
 Trace = max hold
 Detector function = peak, QP

Frequency :Above 1GHz
 RBW=1MHz,
 VBW=3MHz(Peak), 10Hz(AV)
 Sweep time= Auto
 Trace = max hold
 Detector function = peak, AV

4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6\text{dB}\mu\text{V}$ means the emission is $6\text{dB}\mu\text{V}$ below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15C Limit}$$

4.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

4.5 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.249 standards, and had the worst margin of:

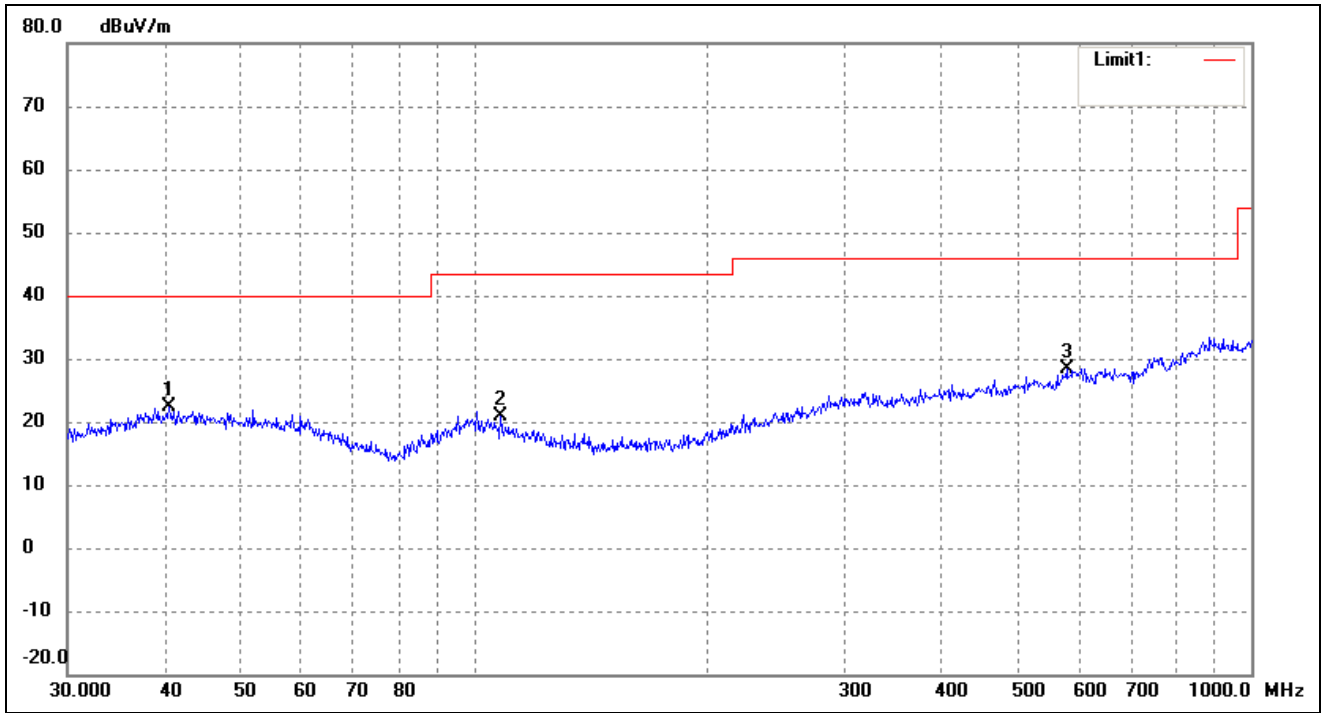
-14.20 dB at 758.0408 MHz in the Vertical polarization, Low Channel, 9 kHz to 25 GHz, 3Meters

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Plot of Radiated Emissions Test Data (30MHz to 1GHz)

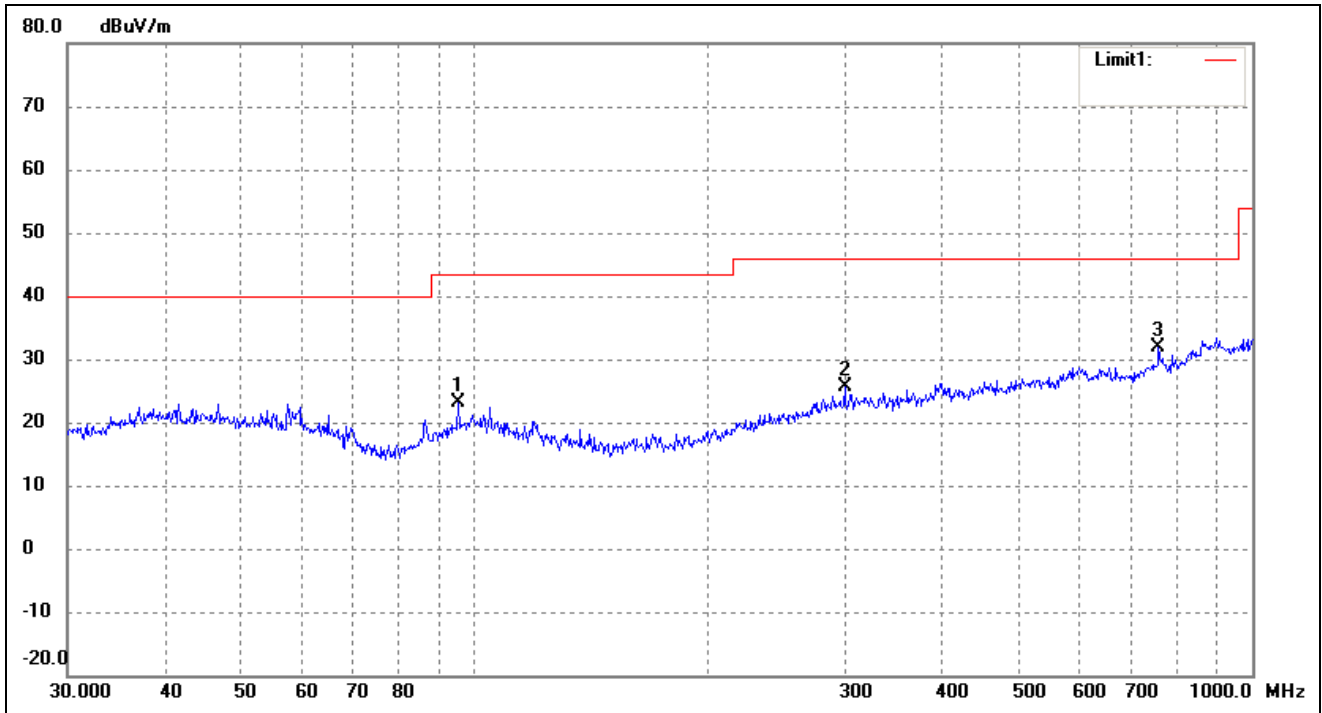
EUT: *Fitness Wristband*
 Tested Model: *HW702A*
 Operating Condition: *Transmitting Low Channel (2403MHz)*
 Comment: *DC 3.7V*

Test Specification: *Horizontal*



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Detector
1	40.5591	15.08	7.19	22.27	40.00	-17.73	246	100	peak
2	108.2667	15.55	5.26	20.81	43.50	-22.69	95	100	peak
3*	578.6699	15.95	12.50	28.45	46.00	-17.55	88	100	peak

Test Specification: Vertical

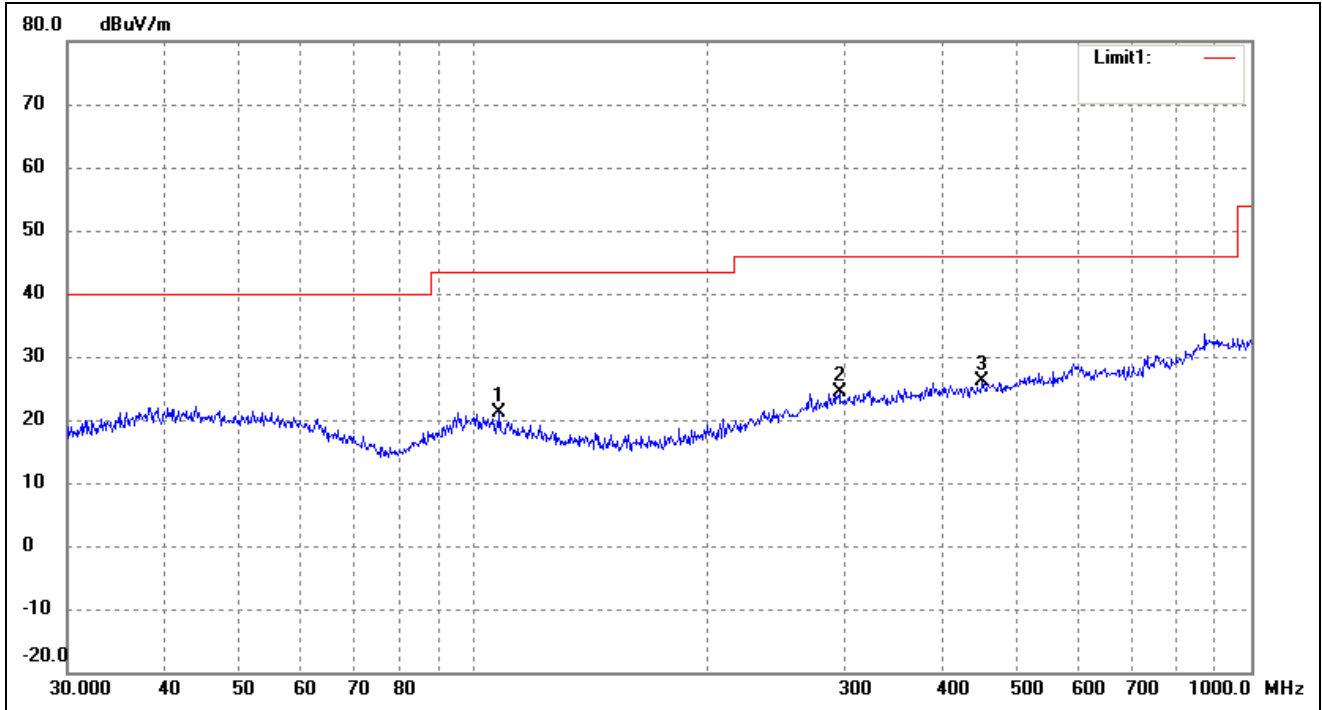


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Detector
1	95.4270	18.04	4.98	23.02	43.50	-20.48	315	100	peak
2	299.3158	16.47	9.15	25.62	46.00	-20.38	99	100	peak
3*	758.0408	17.06	14.74	31.80	46.00	-14.20	126	100	peak

Operating Condition: Transmitting Middle Channel (2442MHz)

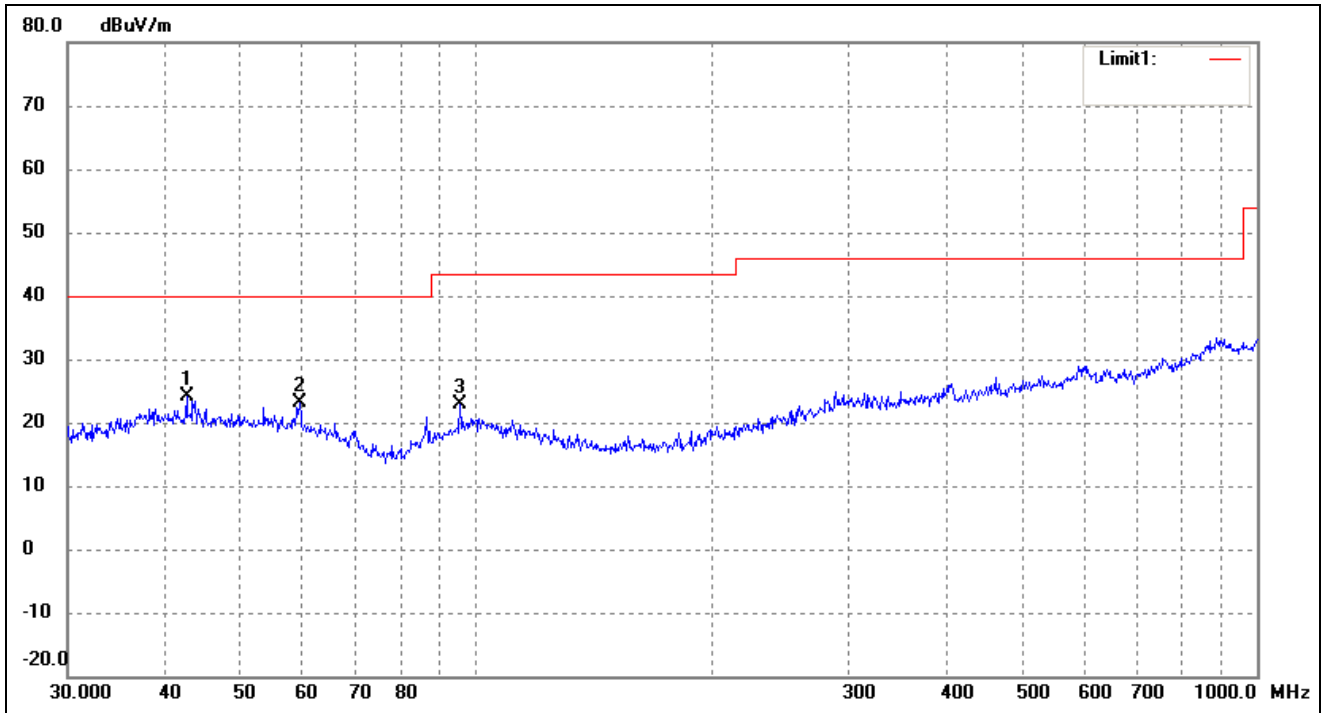
Comment: DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Detector
1	107.8877	15.93	5.30	21.23	43.50	-22.27	167	100	peak
2	295.1469	15.27	8.99	24.26	46.00	-21.74	164	100	peak
3*	451.1350	15.73	10.32	26.05	46.00	-19.95	73	100	peak

Test Specification: Vertical

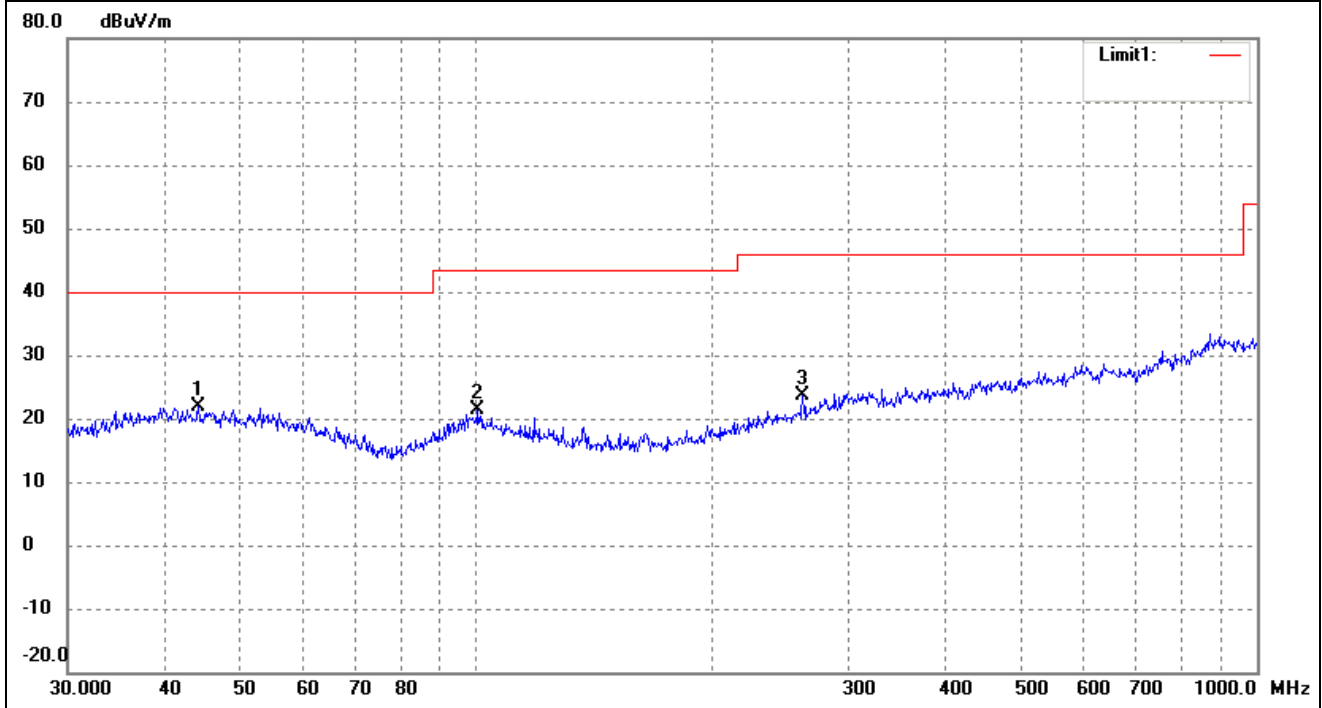


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Detector
1*	42.6000	15.69	8.47	24.16	40.00	-15.84	53	100	peak
2	59.4405	17.75	5.43	23.18	40.00	-16.82	117	100	peak
3	95.4270	17.98	4.98	22.96	43.50	-20.54	71	100	peak

Operating Condition: Transmitting High Channel (2480MHz)

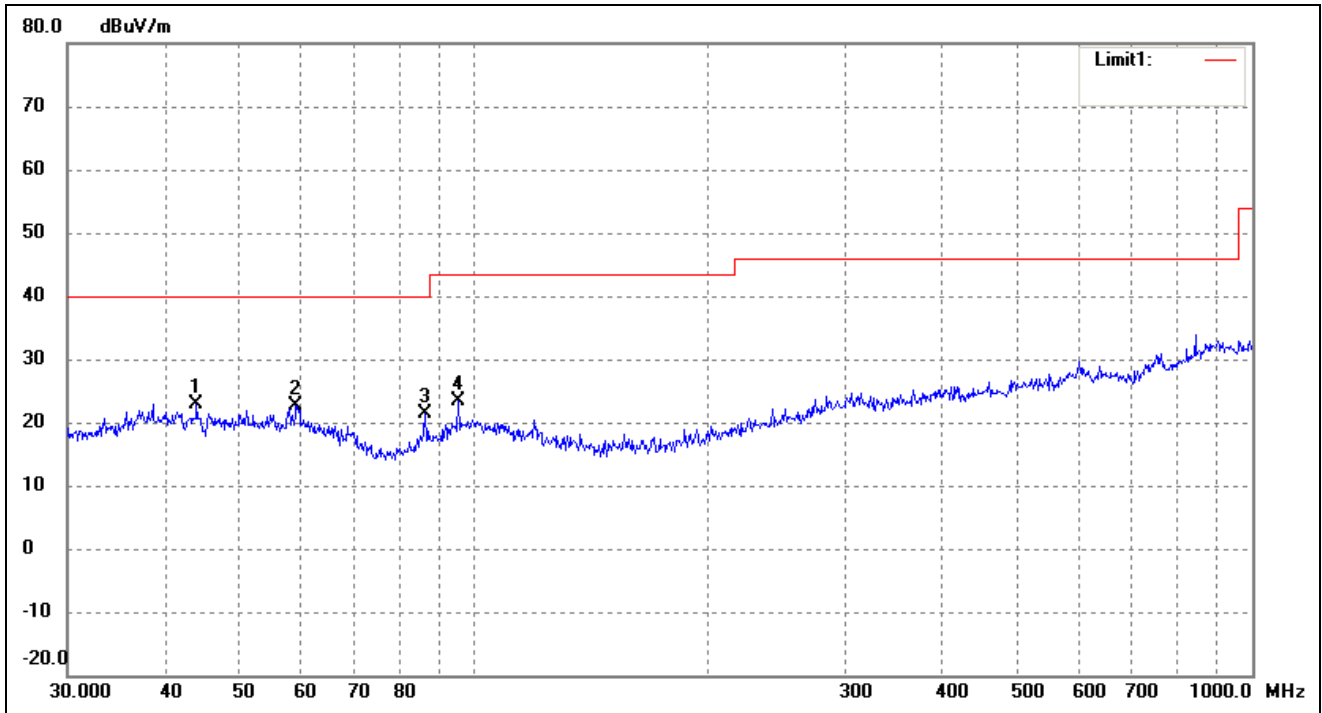
Comment: DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Detector
1*	44.1202	14.97	6.85	21.82	40.00	-18.18	122	100	peak
2	100.5806	15.33	6.07	21.40	43.50	-22.10	96	100	peak
3	261.9753	16.46	7.17	23.63	46.00	-22.37	109	100	peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Detector
1*	43.9658	14.74	8.07	22.81	40.00	-17.19	91	100	peak
2	59.0251	17.16	5.47	22.63	40.00	-17.37	143	100	peak
3	86.5029	18.76	2.70	21.46	40.00	-18.54	51	100	peak
4	95.4270	18.45	4.98	23.43	43.50	-20.07	150	100	peak

Spurious Emissions Above 1GHz

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2403MHz							
2403	94.53	-7.4	87.13	114	-26.87	H	PK
2403	92.89	-7.4	85.49	94	-8.51	H	AV
4806	58.36	-3.59	54.77	74	-19.23	H	PK
4806	45.62	-3.59	42.03	54	-11.97	H	AV
7209	42.68	-0.52	42.16	74	-31.84	H	PK
7209	38.96	-0.52	38.44	54	-15.56	H	AV
2403	92.67	-7.4	85.27	114	-28.73	V	PK
2403	89.92	-7.4	82.52	94	-11.48	V	AV
4806	58.63	-3.59	55.04	74	-18.96	V	PK
4806	45.97	-3.59	42.38	54	-11.62	V	AV
7209	46.22	-0.52	45.7	74	-28.3	V	PK
7209	37.95	-0.52	37.43	54	-16.57	V	AV
Middle Channel-2442MHz							
2442	95.68	-7.35	88.33	114	-25.67	H	PK
2442	93.02	-7.35	85.67	94	-8.33	H	AV
4884	57.62	-3.49	54.13	74	-19.87	H	PK
4884	46.33	-3.49	42.84	54	-11.16	H	AV
7326	43.57	-0.47	43.1	74	-30.9	H	PK
7326	39.26	-0.47	38.79	54	-15.21	H	AV
2442	94.58	-7.35	87.23	114	-26.77	V	PK
2442	91.07	-7.35	83.72	94	-10.28	V	AV
4884	58.12	-3.49	54.63	74	-19.37	V	PK
4884	45.31	-3.49	41.82	54	-12.18	V	AV
7326	46.28	-0.47	45.81	74	-28.19	V	PK
7326	38.69	-0.47	38.22	54	-15.78	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2480MHz							
2480	98.94	-7.28	91.66	114	-22.34	H	PK
2480	97.01	-7.28	89.73	94	-4.27	H	AV
4960	60.22	-3.41	56.81	74	-17.19	H	PK
4960	46.89	-3.41	43.48	54	-10.52	H	AV
7440	45.69	-0.42	45.27	74	-28.73	H	PK
7440	40.23	-0.42	39.81	54	-14.19	H	AV
2480	96.48	-7.28	89.2	114	-24.8	V	PK
2480	94.89	-7.28	87.61	94	-6.39	V	AV
4960	59.62	-3.41	56.21	74	-17.79	V	PK
4960	46.22	-3.41	42.81	54	-11.19	V	AV
7440	45.96	-0.42	45.54	74	-28.46	V	PK
7440	39.63	-0.42	39.21	54	-14.79	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

5. Out of Band Emissions

5.1 Standard Applicable

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 Test Procedure

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2483.5MHz, than mark the higher-level emission for comparing with the FCC rules.

5.3 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

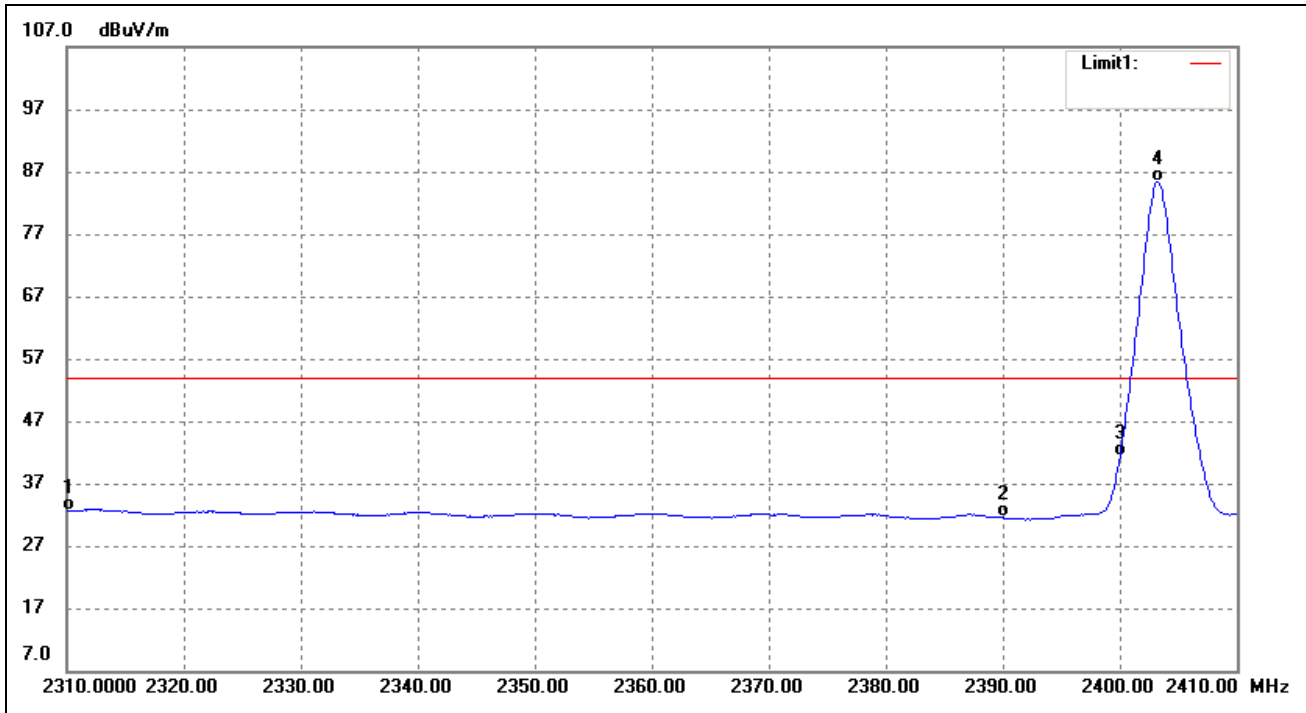
5.4 Summary of Test Results/Plots

Test mode	Frequency	Limit	Result
	MHz	dBuV / dBc	
Lowest	2310.00	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
	2400.00	<54 dBuV	Pass
Highest	2483.50	<54 dBuV	Pass
	2500.00	<54 dBuV	Pass

The edge emissions are below the FCC 15.209 Limits or complies with the 15.249 requirements.

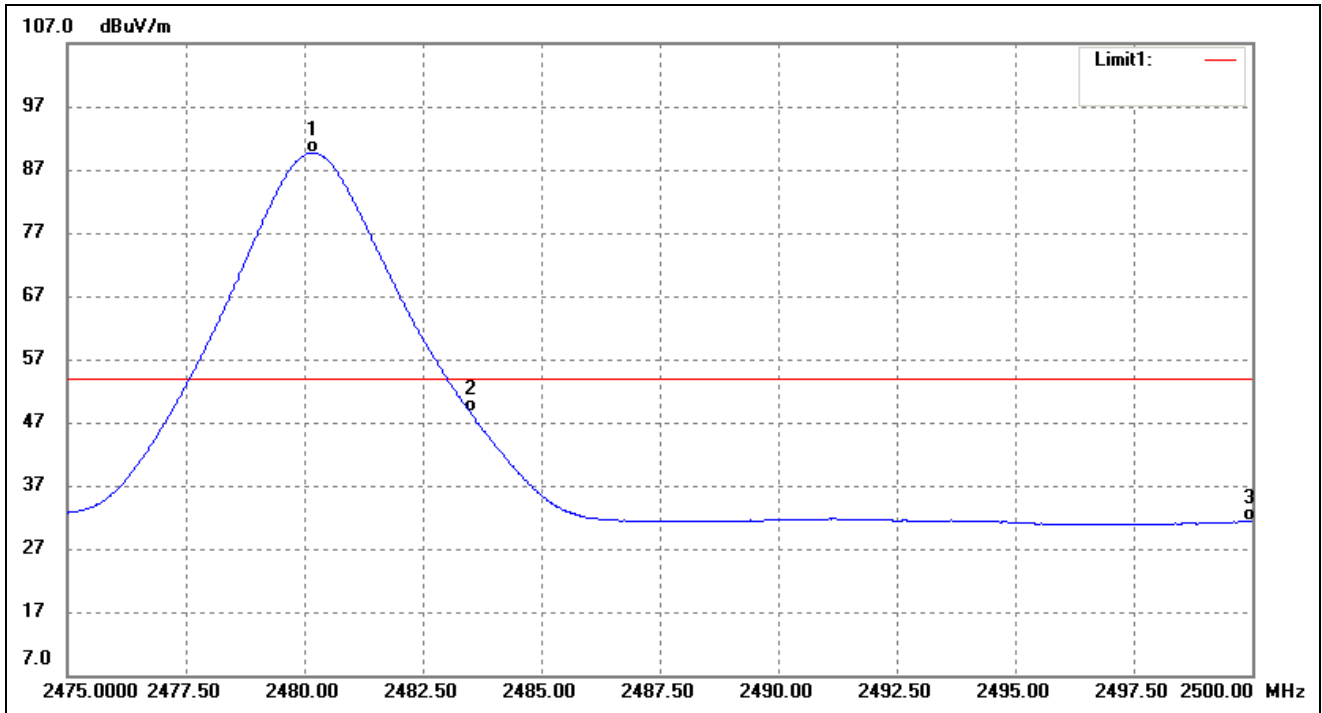
Please refer to the test plots as below.

Lowest Bandedge
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	38.90	-6.38	32.52	54.00	-21.48	AVG
	2310.000	51.52	-6.38	45.14	74.00	-28.86	peak
2	2390.000	38.77	-7.26	31.51	54.00	-22.49	AVG
	2390.000	54.64	-7.26	47.38	74.00	-26.62	peak
3	2400.000	48.79	-7.37	41.42	54.00	-12.58	AVG
	2400.000	60.99	-7.37	53.62	74.00	-20.38	peak
4	2403.200	92.89	-7.40	85.49	/	/	AVG
	2403.400	94.53	-7.40	87.13	/	/	peak

Highest Bandedge
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.175	97.01	-7.28	89.73	/	/	AVG
	2480.325	98.94	-7.28	91.66	/	/	peak
2	2483.500	55.84	-7.28	48.56	54.00	-5.44	AVG
	2483.500	64.08	-7.28	56.80	74.00	-17.20	peak
3	2500.000	38.54	-7.25	31.29	54.00	-22.71	AVG
	2500.000	51.20	-7.25	43.95	74.00	-30.05	peak

6. Emission Bandwidth

6.1 Standard Applicable

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

6.2 Test Procedure

According to the ANSI 63.10-2013, the emission bandwidth test method as follows.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Set span = 1MHz, centered on a transmitting channel

RBW \geq 1% 20dB Bandwidth, VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.

6.3 Environmental Conditions

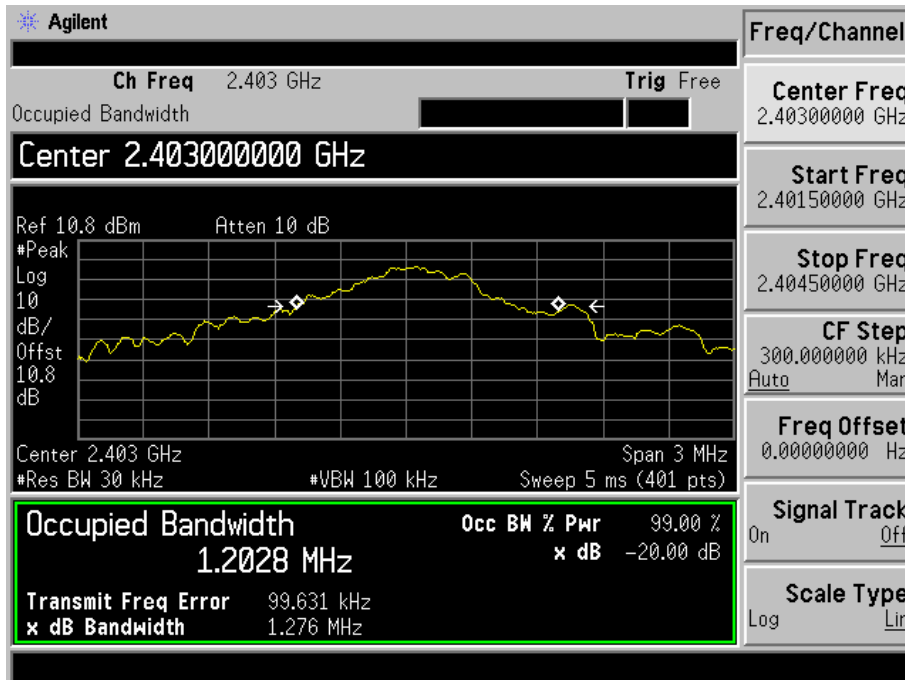
Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.4 Summary of Test Results/Plots

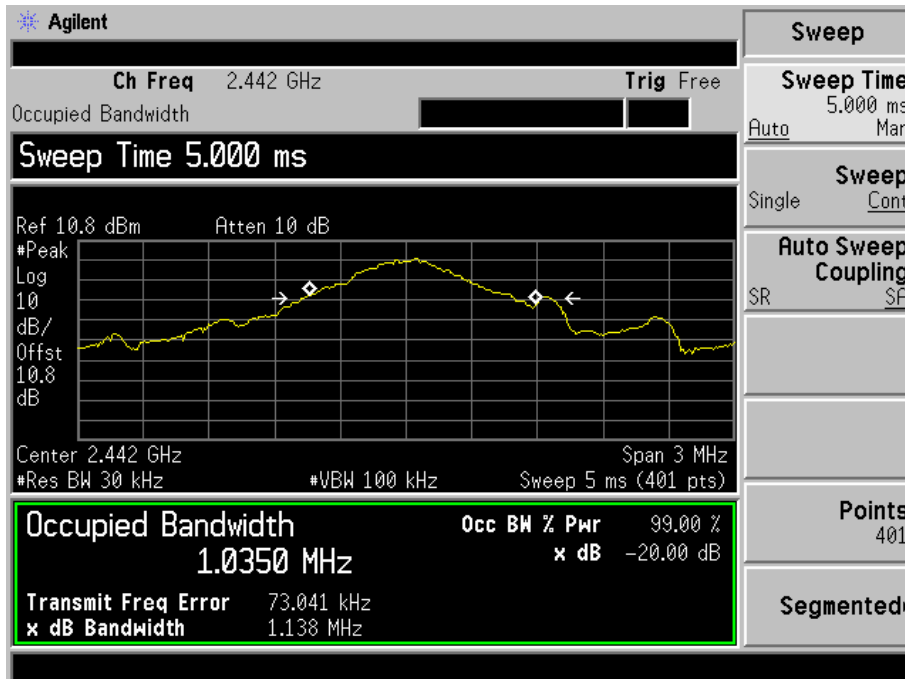
Channel	Frequency MHz	20dB Bandwidth kHz	99% Bandwidth kHz
Low Channel	2403	1276	1202.8
Middle Channel	2442	1138	1035.0
High Channel	2480	1108	963.2

Please refer to the following test plots

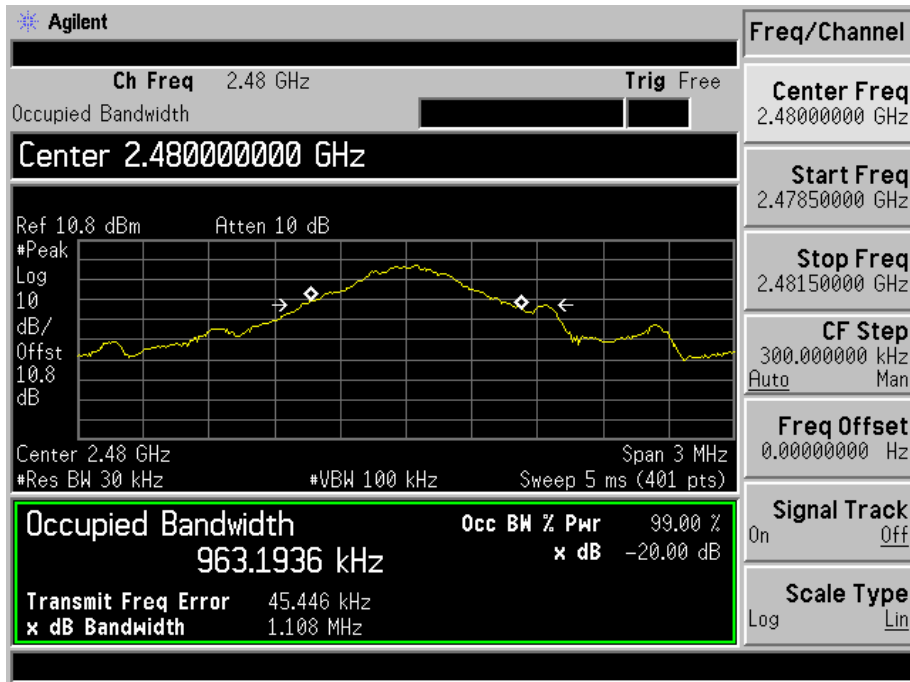
Low Channel:



Middle Channel:



High Channel:



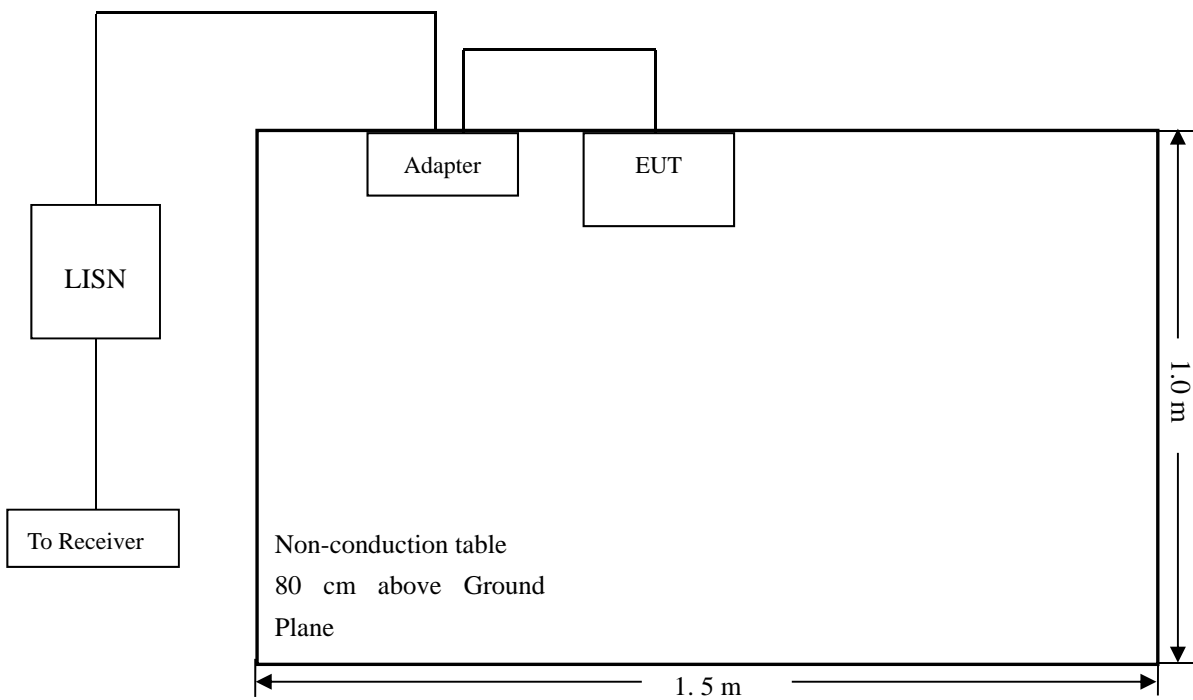
7. Conducted Emissions

7.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

7.2 Basic Test Setup Block Diagram



7.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

7.4 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency 150 kHz
Stop Frequency 30 MHz
Sweep Speed Auto
IF Bandwidth..... 10 kHz
Quasi-Peak Adapter Bandwidth 9 kHz
Quasi-Peak Adapter Mode Normal

7.5 Summary of Test Results/Plots

According to the data in section 7.7, the EUT complied with the FCC Part 15.207 Conducted margin for this device, with the *worst* margin reading of:

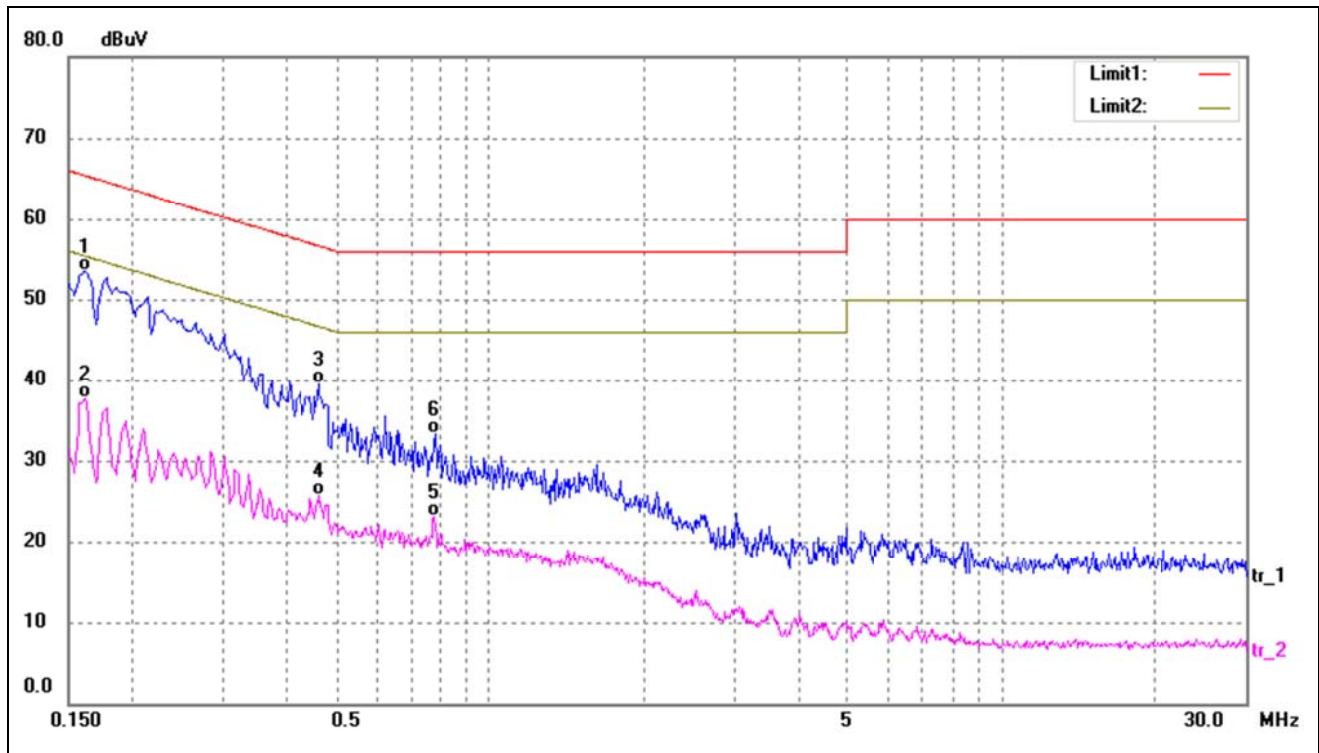
-11.26 dB at 0.1619 MHz in the Line mode, QP detector, 0.15-30MHz

7.6 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

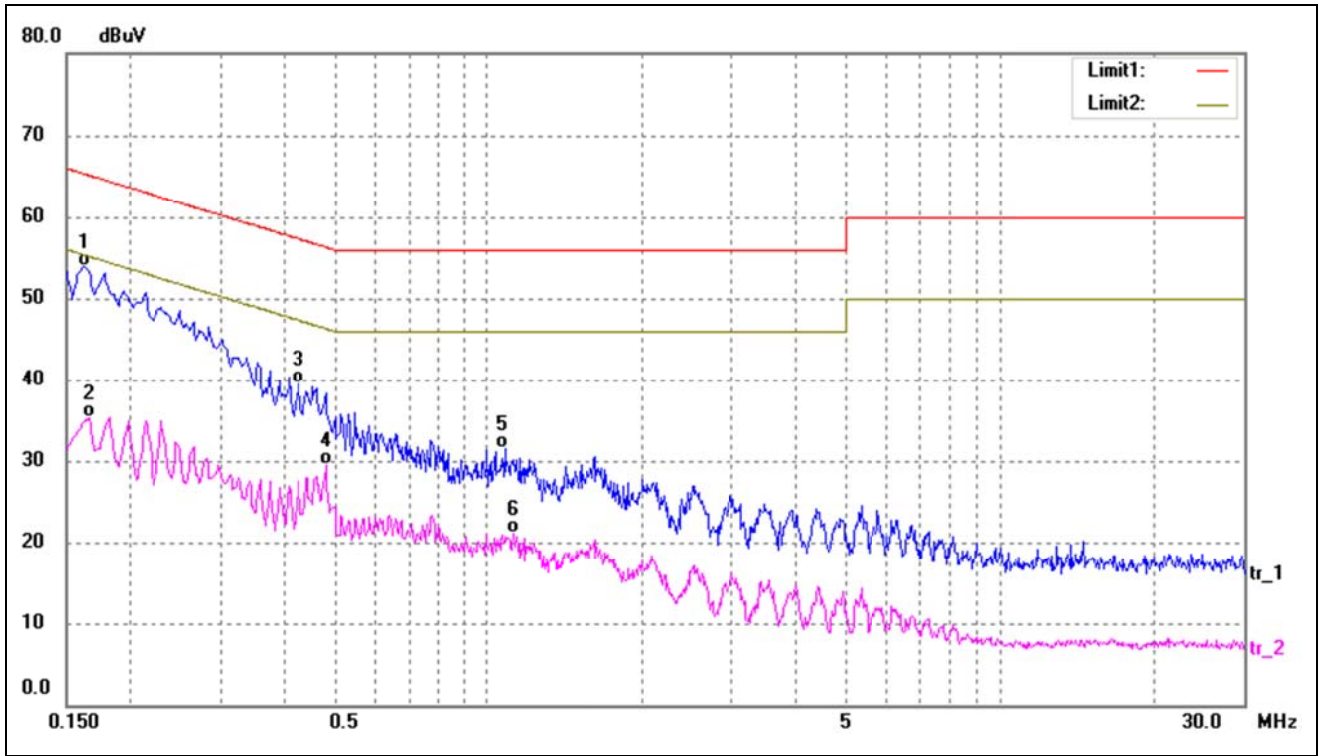
EUT: *Fitness Wristband*
 Tested Model: *HW702A*
 Operating Condition: *Transmitting(ANT+)*
 Comment: *AC 120V/60Hz*

Test Specification: *Neutral*



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1593	43.63	9.84	53.47	65.36	-11.89	QP
2	0.1593	27.77	9.84	37.61	55.36	-17.75	AVG
3	0.4613	29.65	9.80	39.45	56.66	-17.21	QP
4	0.4617	15.87	9.80	25.67	46.66	-20.99	AVG
5	0.7773	13.34	9.78	23.12	46.00	-22.88	AVG
6	0.7811	23.45	9.78	33.23	56.00	-22.77	QP

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1619	44.26	9.84	54.10	65.36	-11.26	QP
2	0.1659	25.49	9.83	35.32	55.16	-19.84	AVG
3	0.4258	29.59	9.80	39.39	57.33	-17.94	QP
4	0.4817	19.61	9.80	29.41	46.30	-16.89	AVG
5	0.4817	21.73	9.76	31.49	56.00	-24.51	QP
6	1.1224	11.17	9.76	20.93	46.00	-25.07	AVG

***** END OF REPORT *****