

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

FCC ID: 2ACN7-RC900

FCC Rule(s):	<u>FCC Part 15.249</u>
Product Description:	<u>Sports Data Wireless Hub</u>
Tested Model:	<u>RC900</u>
Report No.:	<u>STR16088223I-1</u>
Tested Date:	<u>2016-08-22 to 2016-09-21</u>
Issued Date:	<u>2016-09-21</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,
Honglang North 2nd Road, Bao'an, Shenzhen

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

General Description of EUT	
Product Name:	Sports Data Wireless Hub
Trade Name:	/
Model No.:	RC900
Adding Model(s):	RC900A
Rated Voltage:	DC 3.7V battery, USB 5V charging purpose only
<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 RC900, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT(ANT+)	
Frequency Range:	2403MHz-2480MHz
Max. Field Strength:	81.53dBuV/m
Data Rate:	1Mbps
Modulation:	GFSK
Quantity of Channels:	78
Antenna Type:	Chip Antenna
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.: 934118

Shenzhen SEM.Test Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 934118.

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.

CNAS Registration No.: L4062

Shenzhen SEM.Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101).

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
USB cable	0.95	Unshielded	Without Core

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Adapter	XHY	XHY050200UECH	/

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	2016-06-04	2017-06-03
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2016-06-04	2017-06-03
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2016-06-04	2017-06-03
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2016-06-04	2017-06-03
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2016-06-04	2017-06-03
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2016-06-04	2017-06-03
SEMT-1042	Horn Antenna	ETS	3117	00086197	2016-06-04	2017-06-03
SEMT-1121	Horn Antenna	ETS	3116B	00088203	2016-06-04	2017-06-03
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2016-06-04	2017-06-03
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2016-06-04	2017-06-03
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2016-06-04	2017-06-03
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2016-06-04	2017-06-03

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 a chip 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

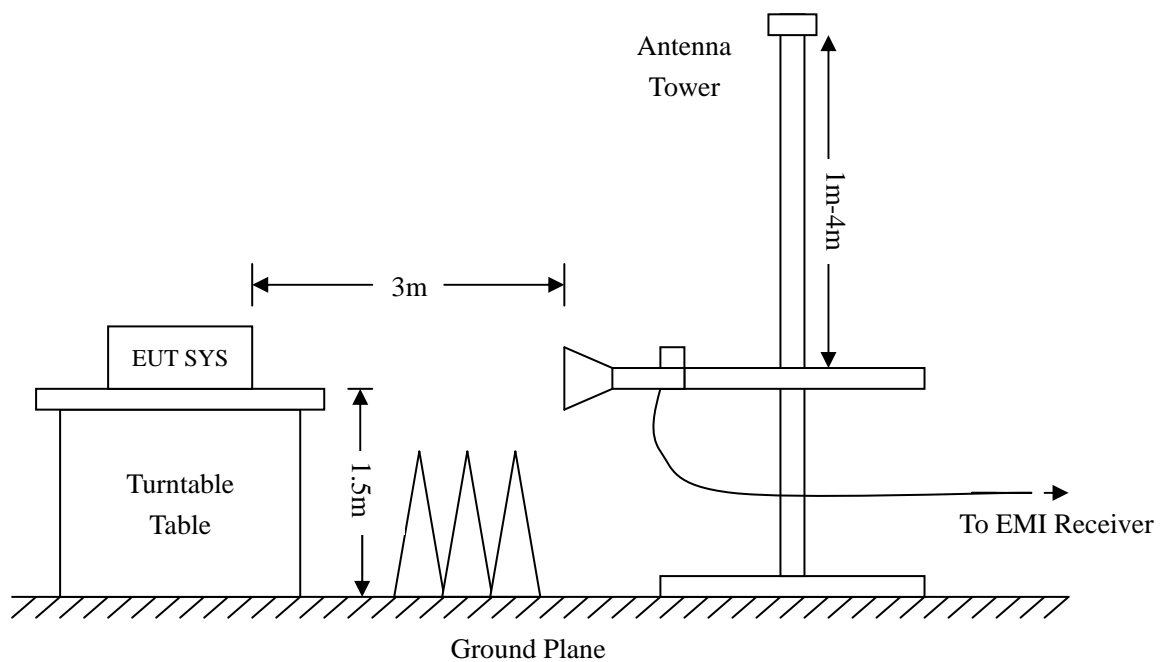
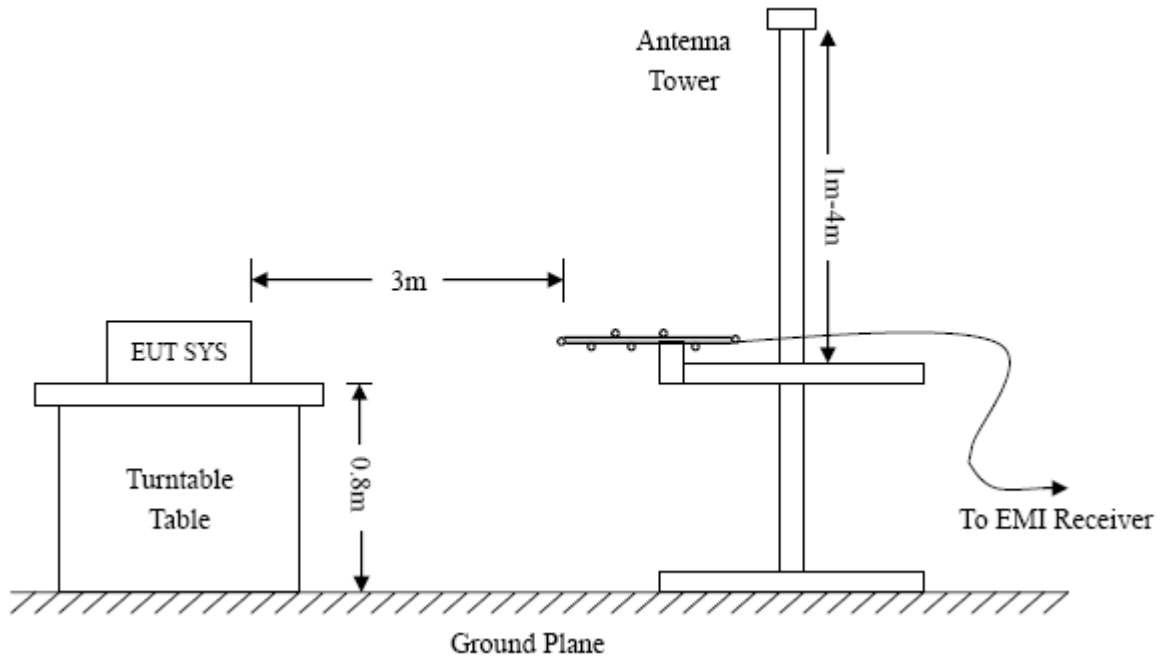
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

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 -6dB μ V means the emission is 6dB μ 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

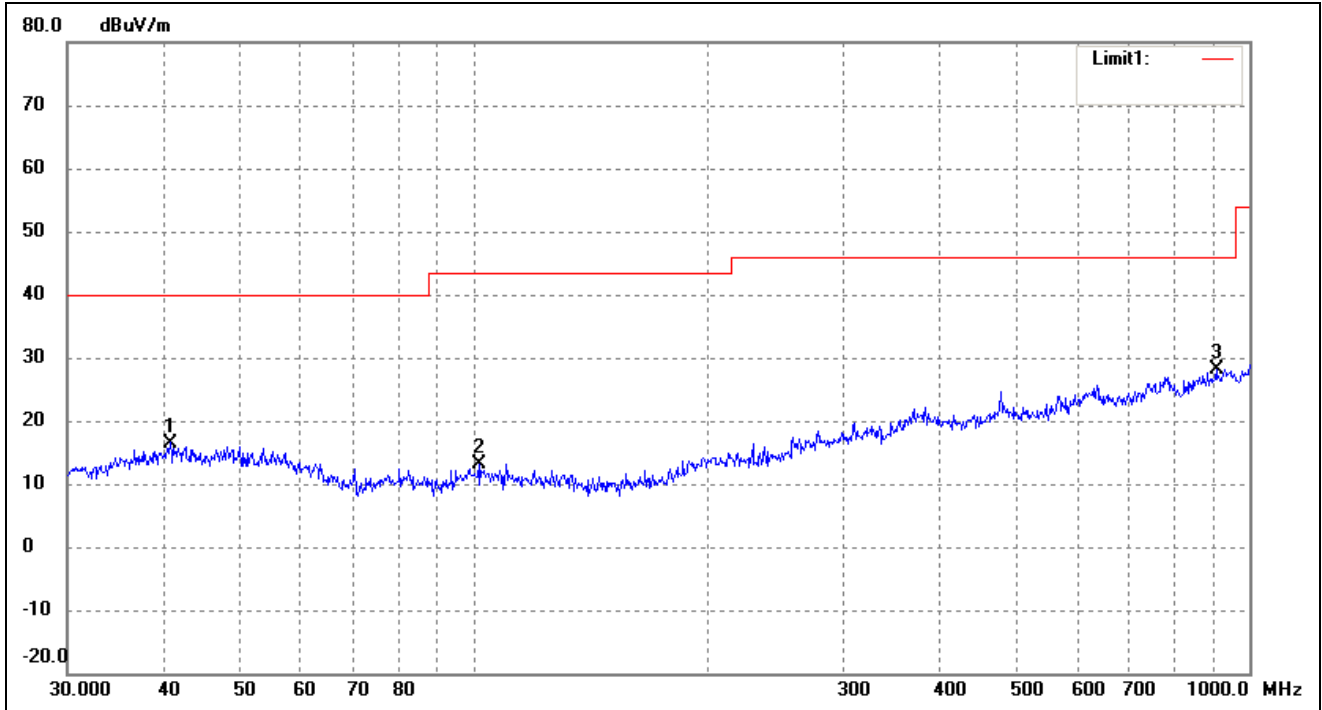
4.5 Summary of Test Results/Plots

According to the data below, the [FCC Part 15.205](#), [15.209](#) and [15.249](#) standards, and had the worst margin of:

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

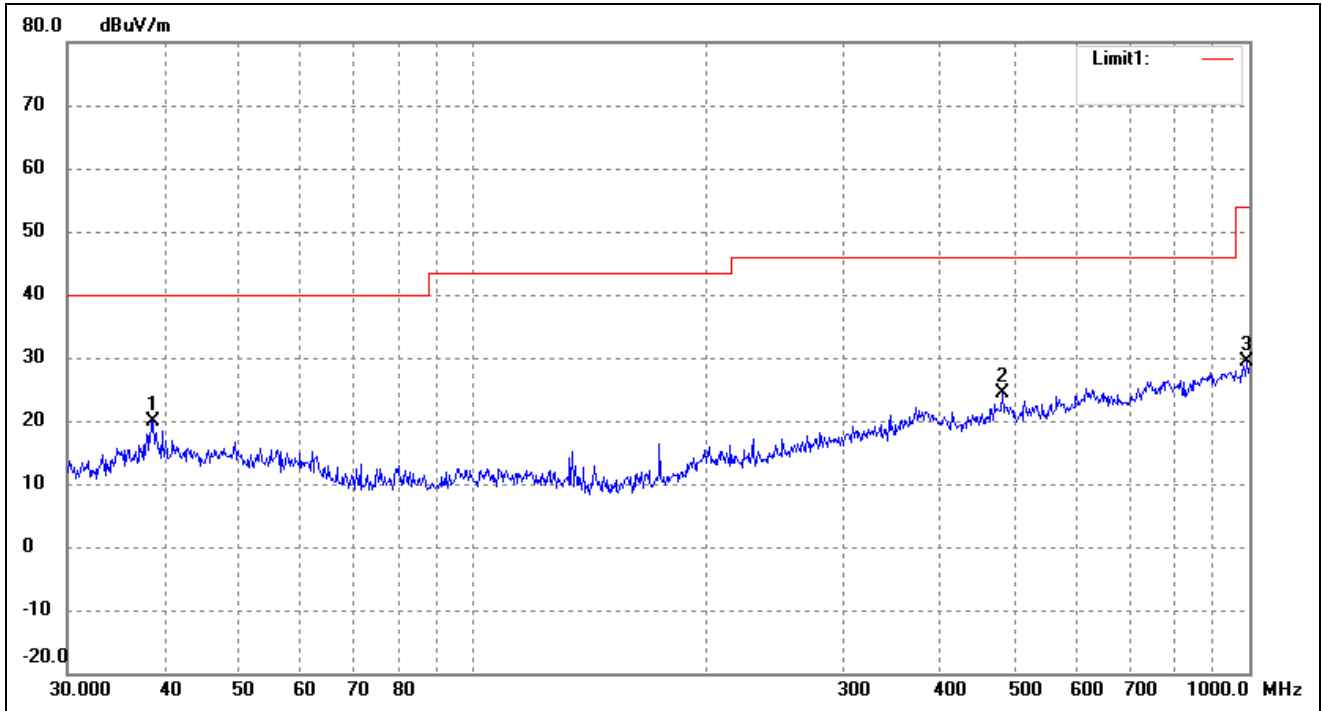
Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: Sports Data Wireless Hub
 Tested Model: RC900
 Operating Condition: Transmitting Low Channel (2403MHz)
 Comment: DC 3.7V battery
 Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	40.7016	24.21	-7.71	16.50	40.00	-23.50	0	100	peak
2	101.6443	24.05	-10.94	13.11	43.50	-30.39	0	100	peak
3	906.4824	24.84	3.31	28.15	46.00	-17.85	0	100	peak

Test Specification: Vertical

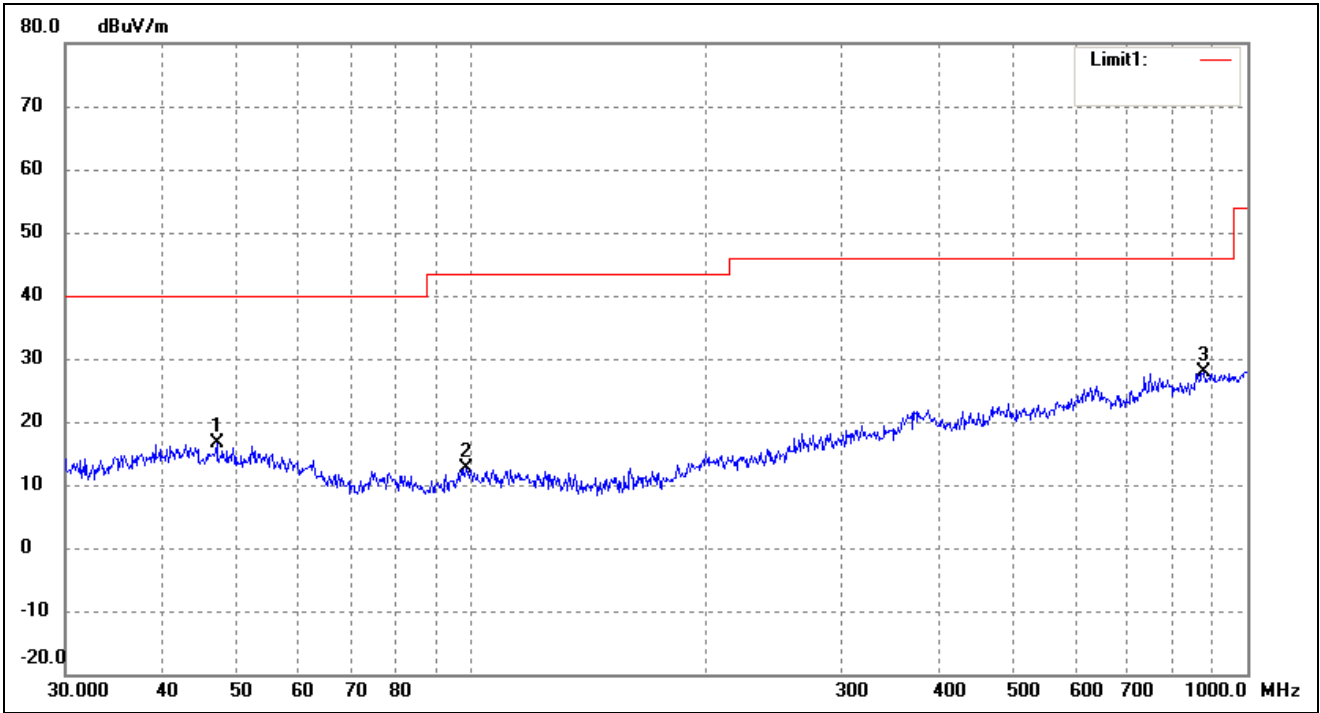


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.7518	27.99	-8.01	19.98	40.00	-20.02	0	100	peak
2	480.5276	25.52	-1.08	24.44	46.00	-21.56	0	100	peak
3	993.0114	24.84	4.49	29.33	54.00	-24.67	0	100	peak

Operating Condition: Transmitting Middle Channel (2442MHz)

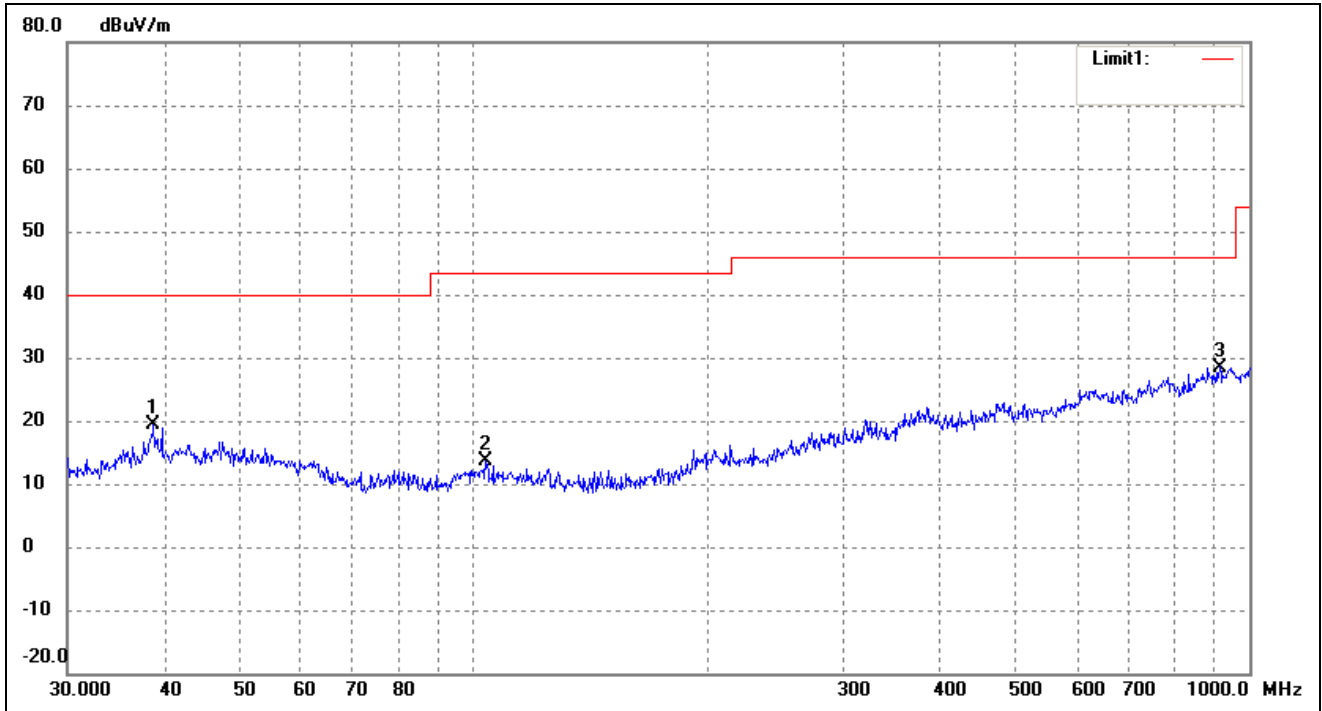
Comment: DC 3.7V battery

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	46.9948	24.85	-8.13	16.72	40.00	-23.28	0	100	peak
2	98.4866	23.87	-11.21	12.66	43.50	-30.84	0	100	peak
3	878.3214	24.79	3.12	27.91	46.00	-18.09	0	100	peak

Test Specification: Vertical

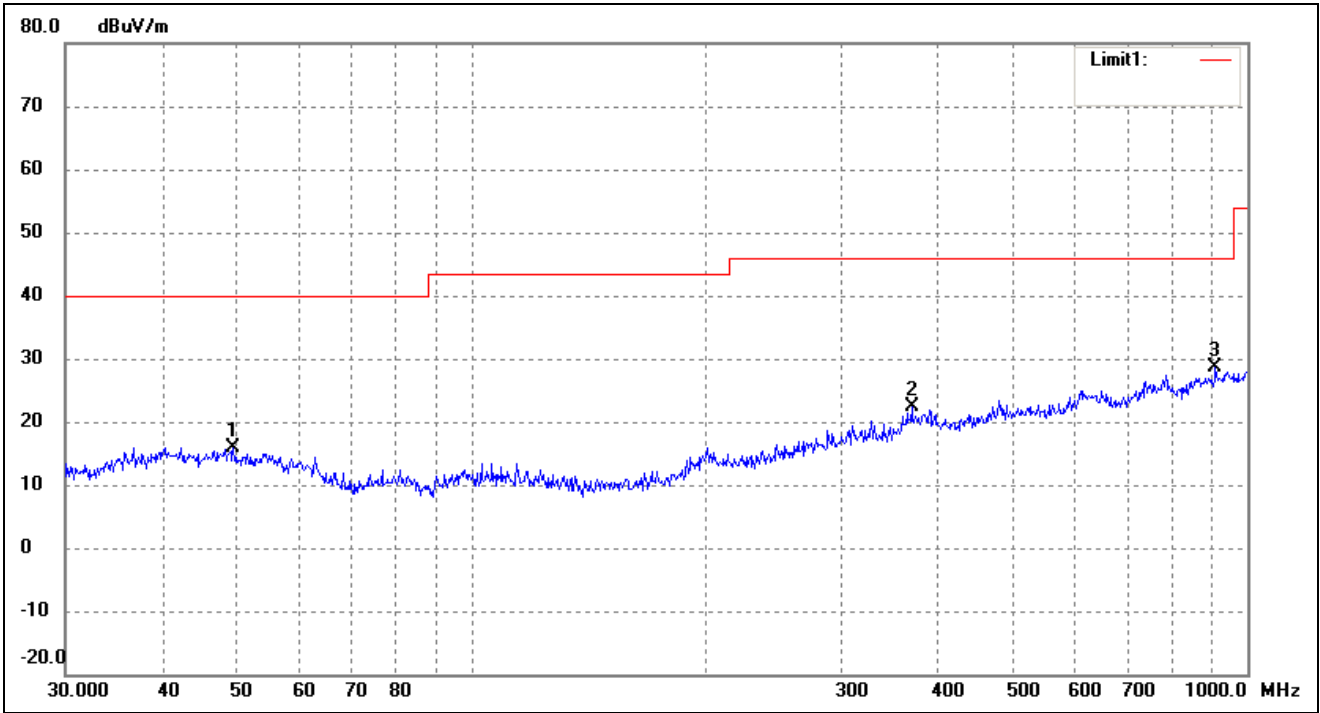


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.7518	27.40	-8.01	19.39	40.00	-20.61	0	100	peak
2	103.8055	24.69	-11.00	13.69	43.50	-29.81	0	100	peak
3	916.0687	24.94	3.56	28.50	46.00	-17.50	0	100	peak

Operating Condition: Transmitting High Channel (2480MHz)

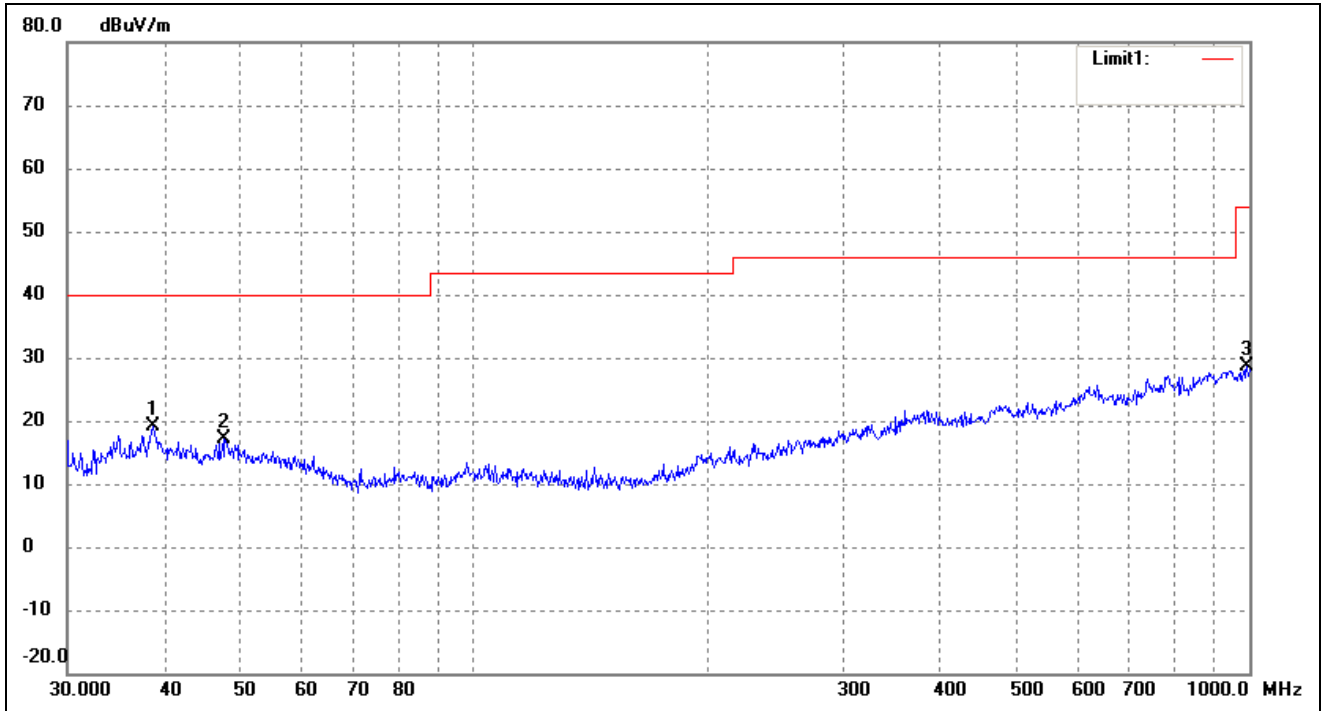
Comment: DC 3.7V battery

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.3594	24.26	-8.28	15.98	40.00	-24.02	0	100	peak
2	369.4047	25.09	-2.71	22.38	46.00	-23.62	0	100	peak
3	909.6667	25.25	3.39	28.64	46.00	-17.36	0	100	peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.6160	27.07	-8.05	19.02	40.00	-20.98	0	100	peak
2	47.8260	25.30	-8.18	17.12	40.00	-22.88	0	100	peak
3	993.0114	24.24	4.49	28.73	54.00	-25.27	0	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	85.12	-3.59	81.53	114	-32.47	H	PK
2403	81.57	-3.59	77.98	94	-16.02	H	AV
4806	55.45	-3.59	51.86	74	-22.14	H	PK
4806	43.64	-3.59	40.05	54	-13.95	H	AV
7209	54.55	-0.52	54.03	74	-19.97	H	PK
7209	49.09	-0.52	48.57	54	-5.43	H	AV
2403	82.41	-3.59	78.82	114	-35.18	V	PK
2403	79.63	-3.59	76.04	94	-17.96	V	AV
4806	55.45	-3.59	51.86	74	-22.14	V	PK
4806	41.82	-3.59	38.23	54	-15.77	V	AV
7209	57.27	-0.52	56.75	74	-17.25	V	PK
7209	49.09	-0.52	48.57	54	-5.43	V	AV
Middle Channel-2442MHz							
2442	81.49	-3.59	77.9	114	-36.1	H	PK
2442	78.57	-3.59	74.98	94	-19.02	H	AV
4884	52.73	-3.49	49.24	74	-24.76	H	PK
4884	40.00	-3.49	36.51	54	-17.49	H	AV
7326	53.64	-0.47	53.17	74	-20.83	H	PK
7326	40.91	-0.47	40.44	54	-13.56	H	AV
2442	79.26	-3.59	75.67	114	-38.33	V	PK
2442	76.41	-3.59	72.82	94	-21.18	V	AV
4884	56.36	-3.49	52.87	74	-21.13	V	PK
4884	45.45	-3.49	41.96	54	-12.04	V	AV
7326	58.18	-0.47	57.71	74	-16.29	V	PK
7326	48.18	-0.47	47.71	54	-6.29	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
High Channel-2480MHz							
2480	80.87	-3.59	77.28	114	-36.72	H	PK
2480	76.17	-3.59	72.58	94	-21.42	H	AV
4960	54.55	-3.41	51.14	74	-22.86	H	PK
4960	40.00	-3.41	36.59	54	-17.41	H	AV
7440	57.27	-0.42	56.85	74	-17.15	H	PK
7440	48.18	-0.42	47.76	54	-6.24	H	AV
2480	78.53	-3.59	74.94	114	-39.06	V	PK
2480	75.19	-3.59	71.6	94	-22.4	V	AV
4960	53.64	-3.41	50.23	74	-23.77	V	PK
4960	50.00	-3.41	46.59	54	-7.41	V	AV
7440	53.64	-0.42	53.22	74	-20.78	V	PK
7440	40.91	-0.42	40.49	54	-13.51	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 5th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

The measurements greater than 20dB below the limit from 9kHz to 30MHz.

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

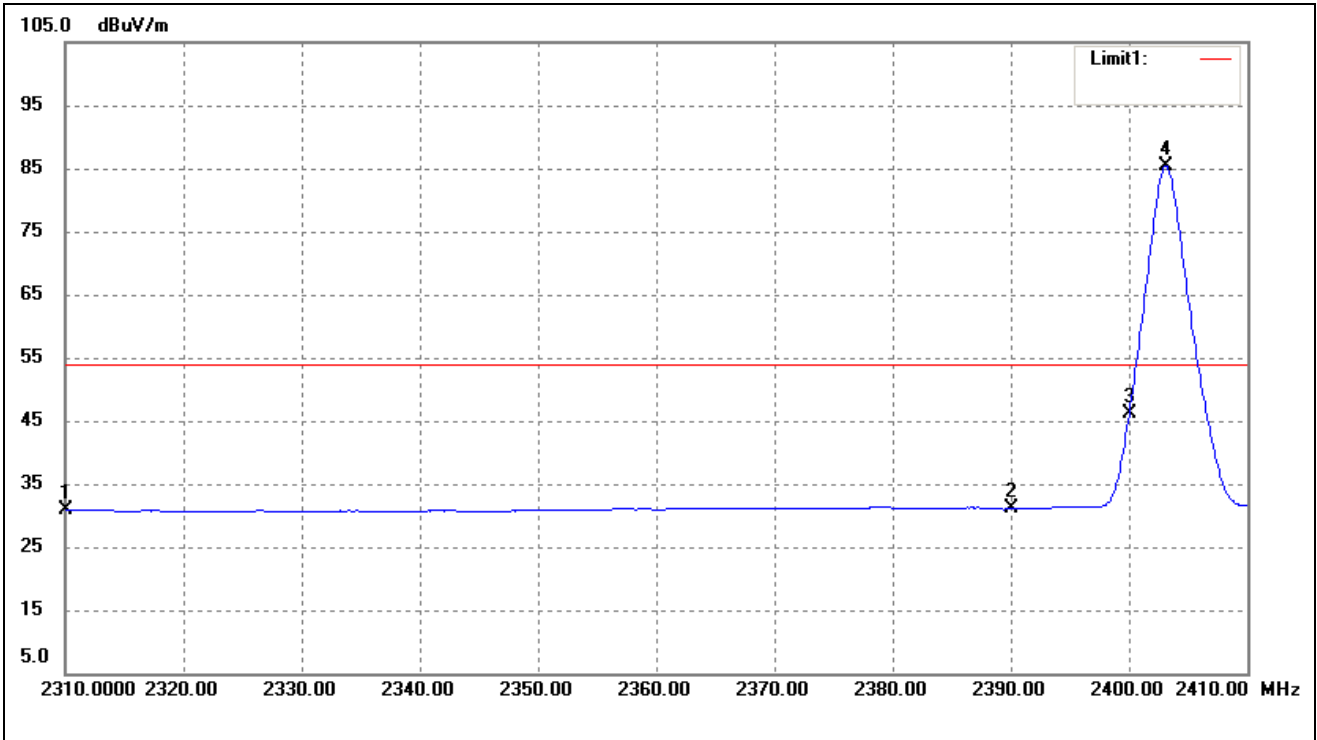
5.4 Summary of Test Results/Plots

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.

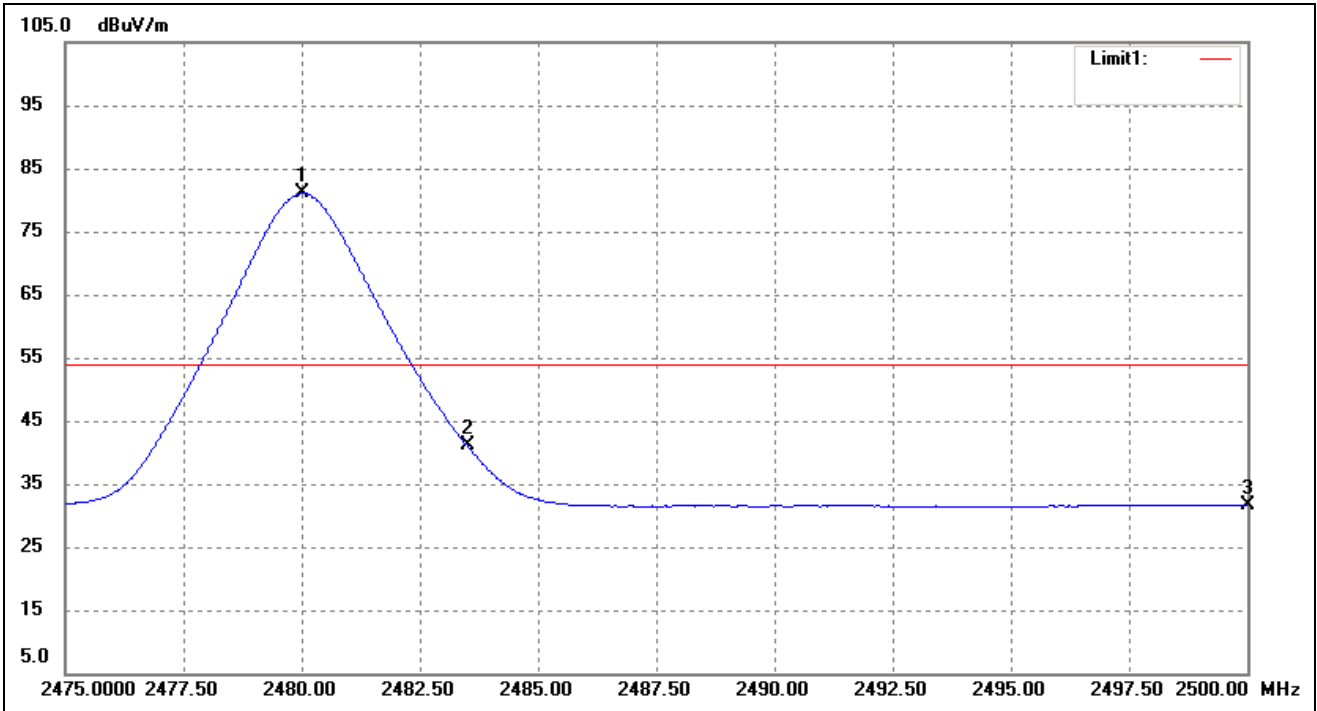
Please refer to the test plots as below.

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	35.26	-4.42	30.84	54.00	-23.16	Ave Detector
	2310.000	47.12	-4.42	42.70	74.00	-31.30	Peak Detector
2	2390.000	34.77	-3.72	31.05	54.00	-22.95	Ave Detector
	2390.000	48.34	-3.72	44.62	74.00	-29.38	Peak Detector
3	2400.000	49.77	-3.64	46.13	54.00	-7.87	Ave Detector
	2400.000	59.94	-3.64	56.30	74.00	-17.70	Peak Detector
4	2403.120	89.15	-3.62	85.53	/	/	Ave Detector
	2402.970	91.50	-3.62	87.88	/	/	Peak Detector

Highest Bandedge
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.000	84.18	-3.04	81.14	/	/	Ave Detector
	2480.000	86.27	-3.04	83.23	/	/	Peak Detector
2	2483.500	44.14	-3.01	41.13	54.00	-12.87	Ave Detector
	2483.500	56.53	-3.01	53.52	74.00	-20.48	Peak Detector
3	2500.000	34.53	-2.89	31.64	54.00	-22.36	Ave Detector
	2500.000	51.82	-2.88	48.94	74.00	-25.06	Peak Detector

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

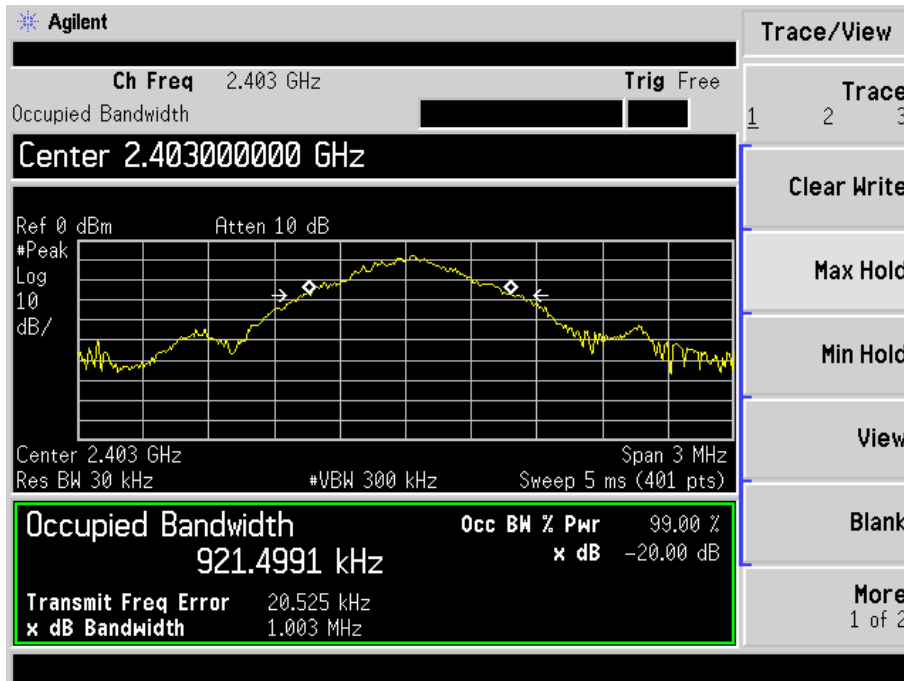
Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.4 Summary of Test Results/Plots

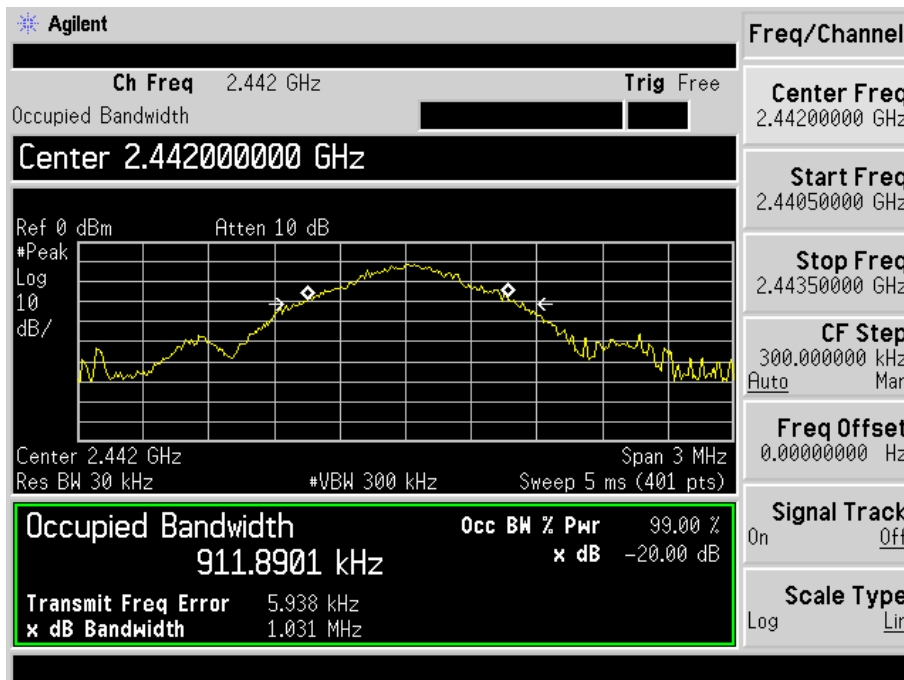
Channel	Frequency MHz	20dB Bandwidth kHz	99% Bandwidth kHz
Low Channel	2403	1003	921.4991
Middle Channel	2442	1031	911.8901
High Channel	2480	1015	917.5894

Please refer to the following test plots

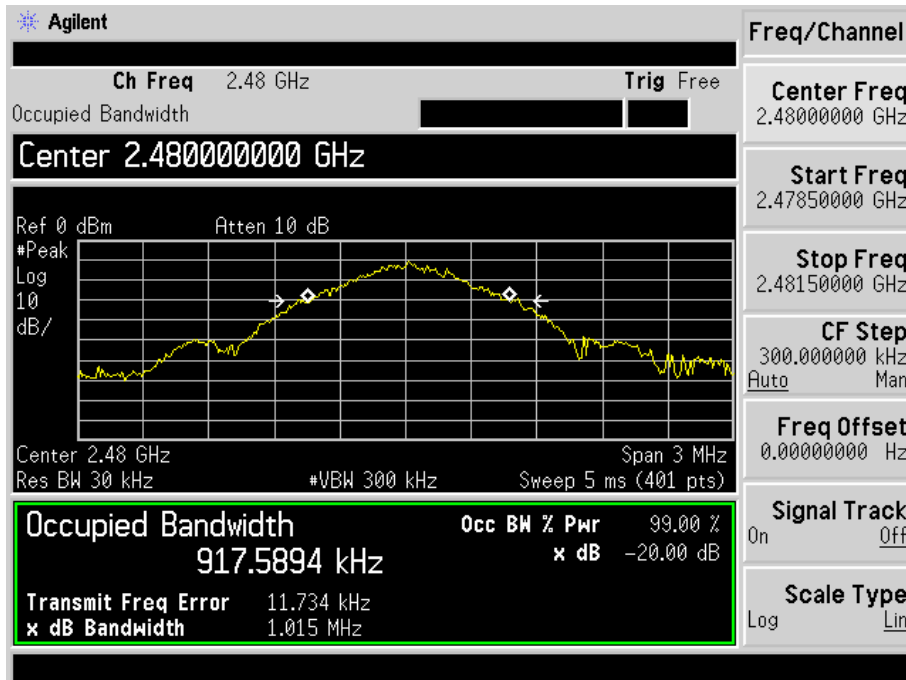
Low Channel:



Middle Channel:



High Channel:



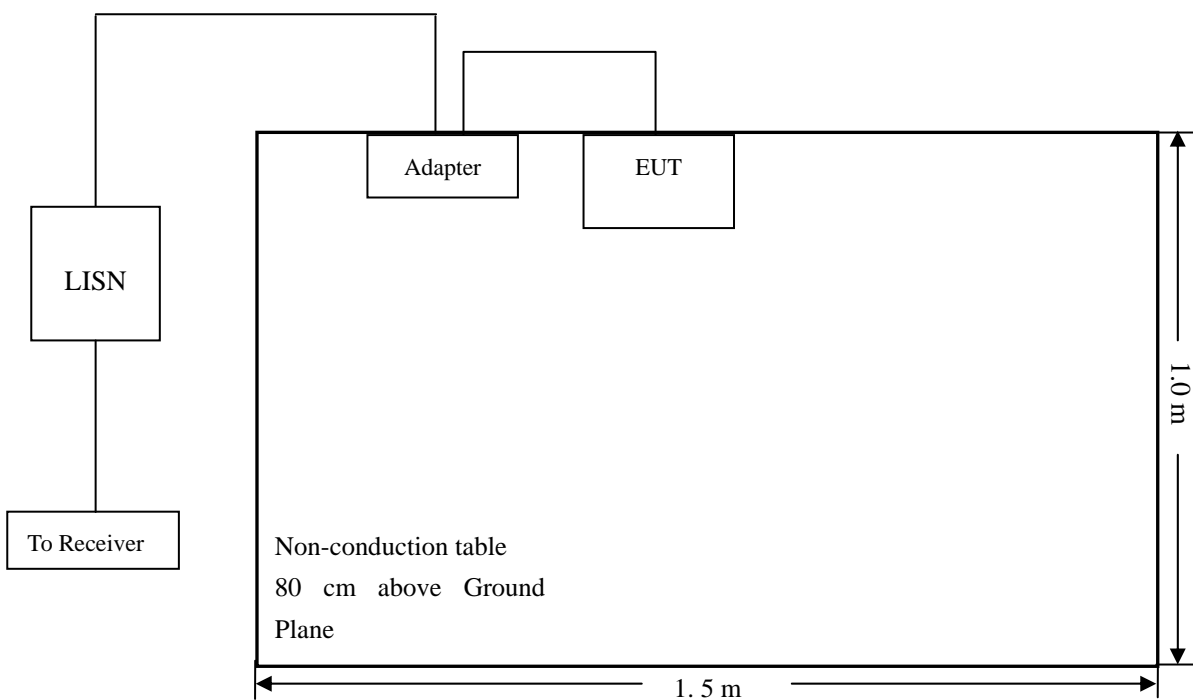
7. Conducted Emissions

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

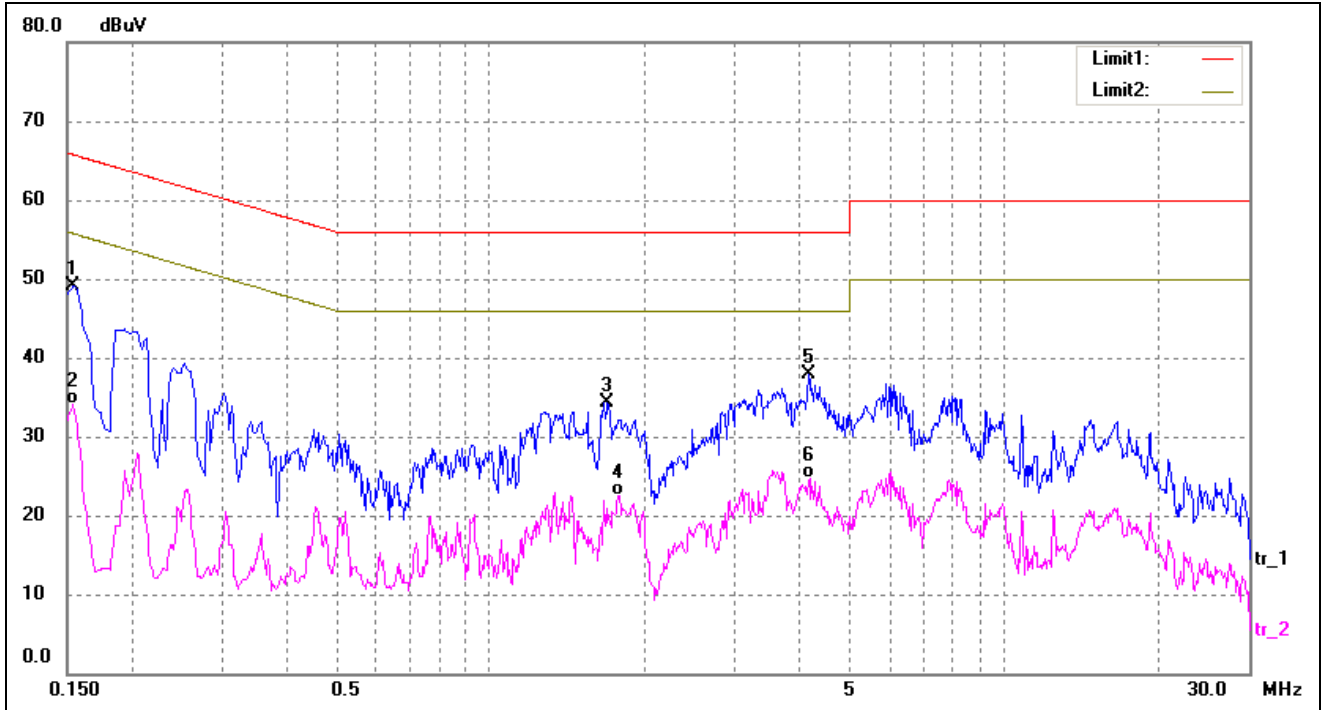
According to the data in section 7.6, the EUT complied with the FCC Part 15.207 Conducted margin for this device, with the *worst* margin reading of:

-16.63 dB at 0.1540 MHz in the Neutral mode, peak detector, 0.15-30MHz

7.6 Conducted Emissions Test Data

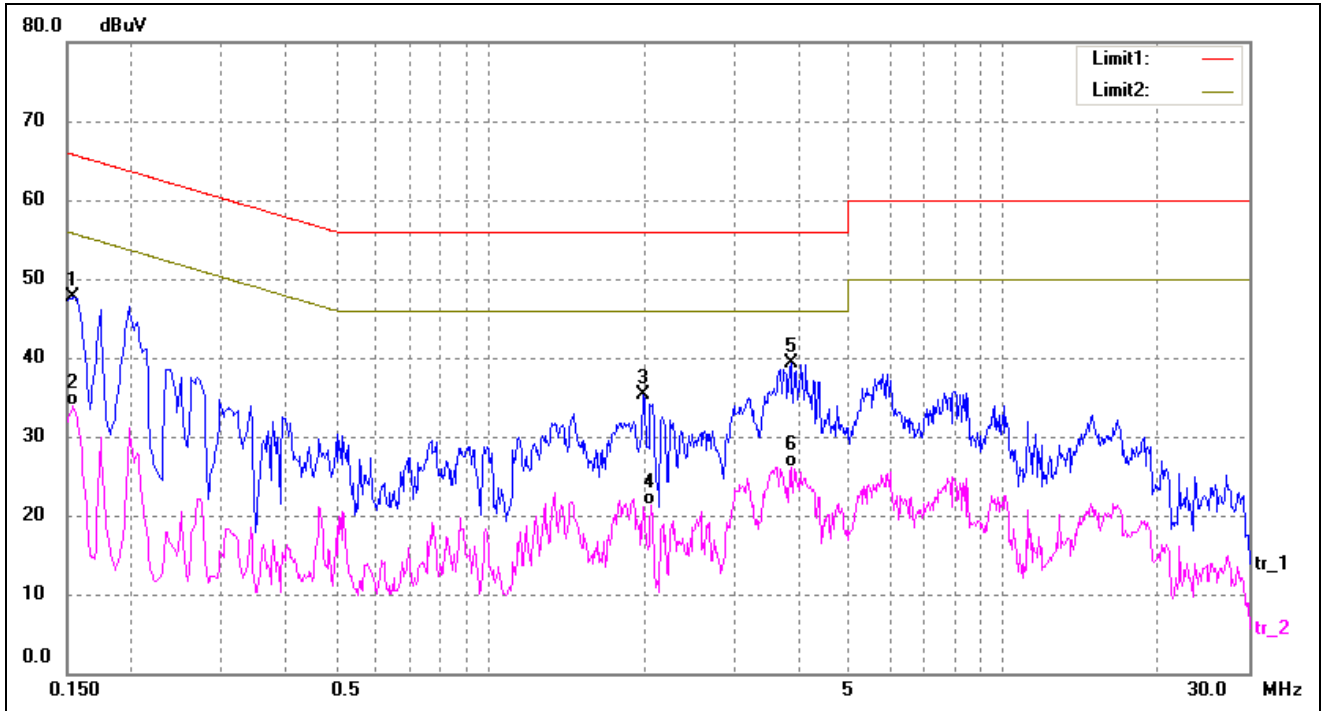
Plot of Conducted Emissions Test Data

EUT: Sports Data Wireless Hub
 Tested Model: RC900
 Operating Condition: Transmitting
 Comment: AC 120V/60Hz; Adapter DC 5V
 Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1540	43.30	5.85	49.15	65.78	-16.63	peak
2	0.1540	28.27	5.85	34.12	55.78	-21.66	AVG
3	1.6900	28.58	5.74	34.32	56.00	-21.68	peak
4	1.7780	16.73	5.74	22.47	46.00	-23.53	AVG
5	4.1700	32.17	5.68	37.85	56.00	-18.15	peak
6	4.1940	19.03	5.68	24.71	46.00	-21.29	AVG

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	41.82	5.85	47.67	65.78	-18.11	peak
2	0.1540	28.08	5.85	33.93	55.78	-21.85	AVG
3	1.9860	29.57	5.74	35.31	56.00	-20.69	peak
4	2.0580	15.62	5.73	21.35	46.00	-24.65	AVG
5*	3.8540	33.53	5.69	39.22	56.00	-16.78	peak
6	3.8540	20.51	5.69	26.20	46.00	-19.80	AVG

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