

FCC Part 15C Measurement and Test Report

For

Acrox Technologies Co., Ltd.

4F., No.89, Minshan St., Neihu Dist., Taipei City 114, Taiwan, R.O.C

FCC ID: PRDMU49

FCC Rule(s): FCC Part 15.249

Product Description: Wireless Mouse

Tested Model: G3Z

Report No.: STR17038056I

Tested Date: 2017-03-06 to 2017-03-09

Issued Date: 2017-03-10

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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.

TABLE OF CONTENTS

1. GENERAL INFORMATION.....	3
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	3
1.2 TEST STANDARDS.....	4
1.3 TEST METHODOLOGY	4
1.4 TEST FACILITY	4
1.5 EUT SETUP AND TEST MODE	5
1.6 MEASUREMENT UNCERTAINTY	5
1.7 TEST EQUIPMENT LIST AND DETAILS	6
2. SUMMARY OF TEST RESULTS	7
3. ANTENNA REQUIREMENTS.....	8
3.1 STANDARD APPLICABLE.....	8
3.2 TEST RESULT.....	8
4. RADIATED EMISSIONS.....	9
4.1 STANDARD APPLICABLE.....	9
4.2 TEST PROCEDURE.....	9
4.3 CORRECTED AMPLITUDE & MARGIN CALCULATION.....	11
4.4 ENVIRONMENTAL CONDITIONS	11
4.5 SUMMARY OF TEST RESULTS/PLOTS	11
5. OUT OF BAND EMISSIONS.....	20
5.1 STANDARD APPLICABLE.....	20
5.2 TEST PROCEDURE.....	20
5.3 ENVIRONMENTAL CONDITIONS	20
5.4 SUMMARY OF TEST RESULTS/PLOTS	20
6. EMISSION BANDWIDTH.....	23
6.1 STANDARD APPLICABLE.....	23
6.2 TEST PROCEDURE.....	23
6.3 ENVIRONMENTAL CONDITIONS	23
6.4 SUMMARY OF TEST RESULTS/PLOTS	23

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Acrox Technologies Co., Ltd.
Address of applicant: 4F., No.89, Minshan St., Neihu Dist., Taipei City 114,
Taiwan, R.O.C

Manufacturer: Acrox Technologies Co., Ltd
Address of manufacturer: Hsinmin Industria, Changan Town, Dongguan City,
Guangdong, China

General Description of EUT	
Product Name:	Wireless Mouse
Trade Name:	
Model No.:	G3Z
Adding Model(s):	/
Rated Voltage:	DC 1.5V
Power Adapter Model:	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	2408-2474MHz
Max. Field Strength:	90.74dBuV/m (3m)
Data Rate:	/
Modulation:	FSK
Antenna Type:	PCB Antenna
Antenna Gain:	-5dBi
Lowest Internal Frequency of EUT:	12MHz

1.2 Test Standards

The following report is prepared on behalf of the Acrox Technologies 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	2408MHz
TM2	Middle Channel	2440MHz
TM3	High Channel	2474MHz

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	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	Schwarzbeck	BBHA 9170	BBHA9170582	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	N/A
§ 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

N/A: not applicable

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 PCB 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.

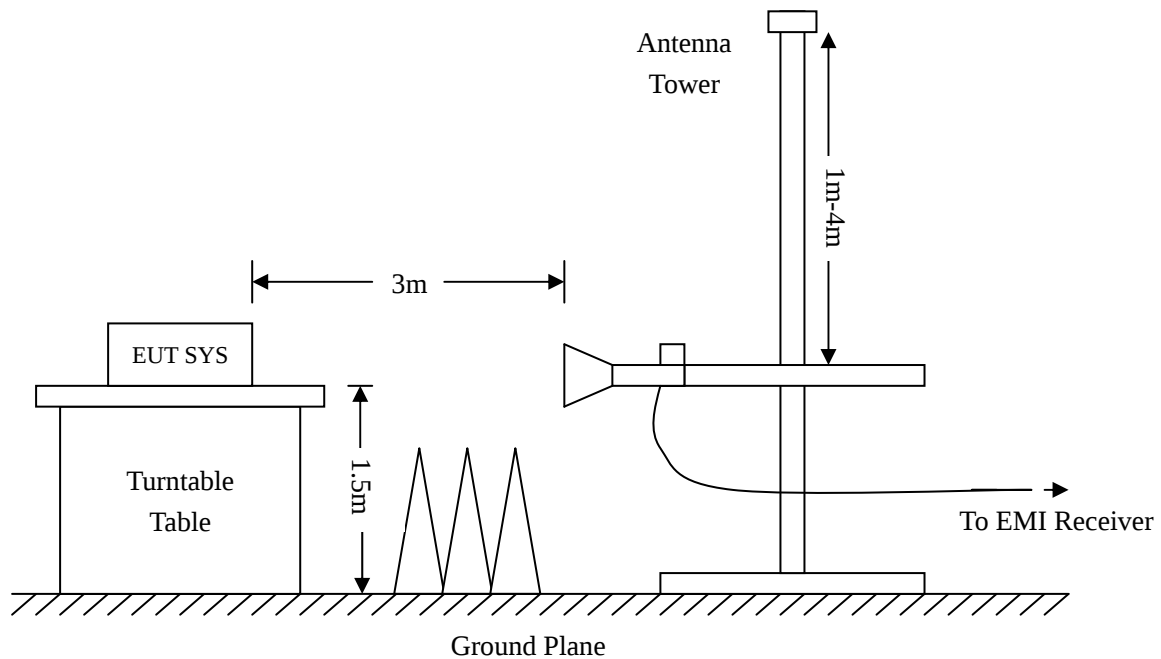
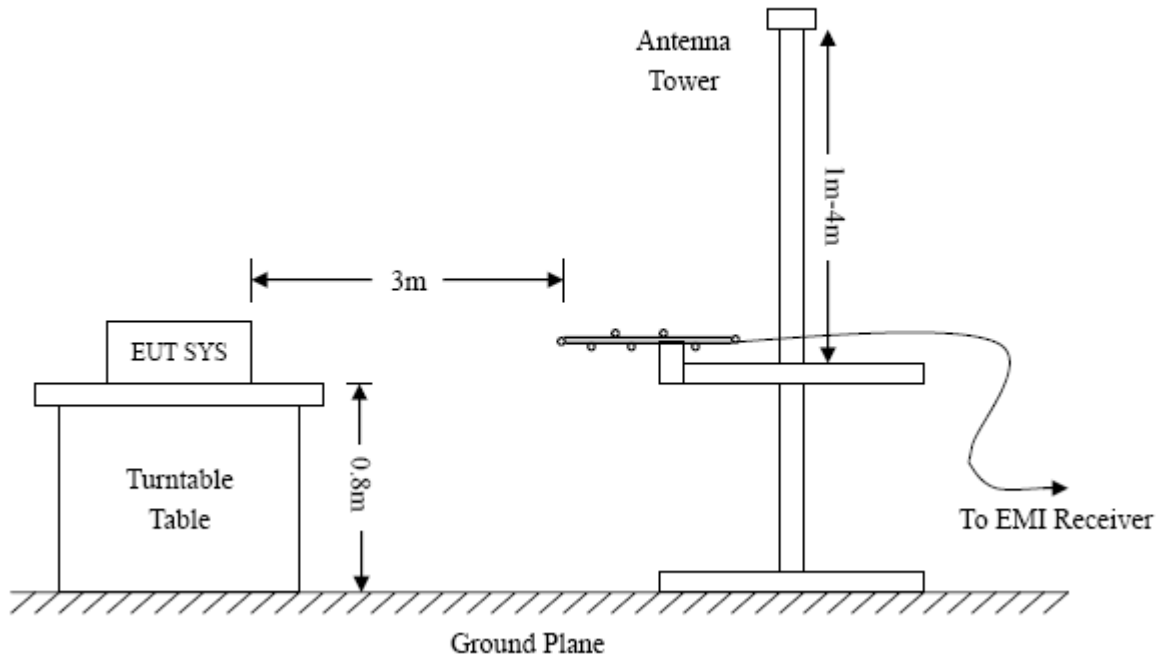
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

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:

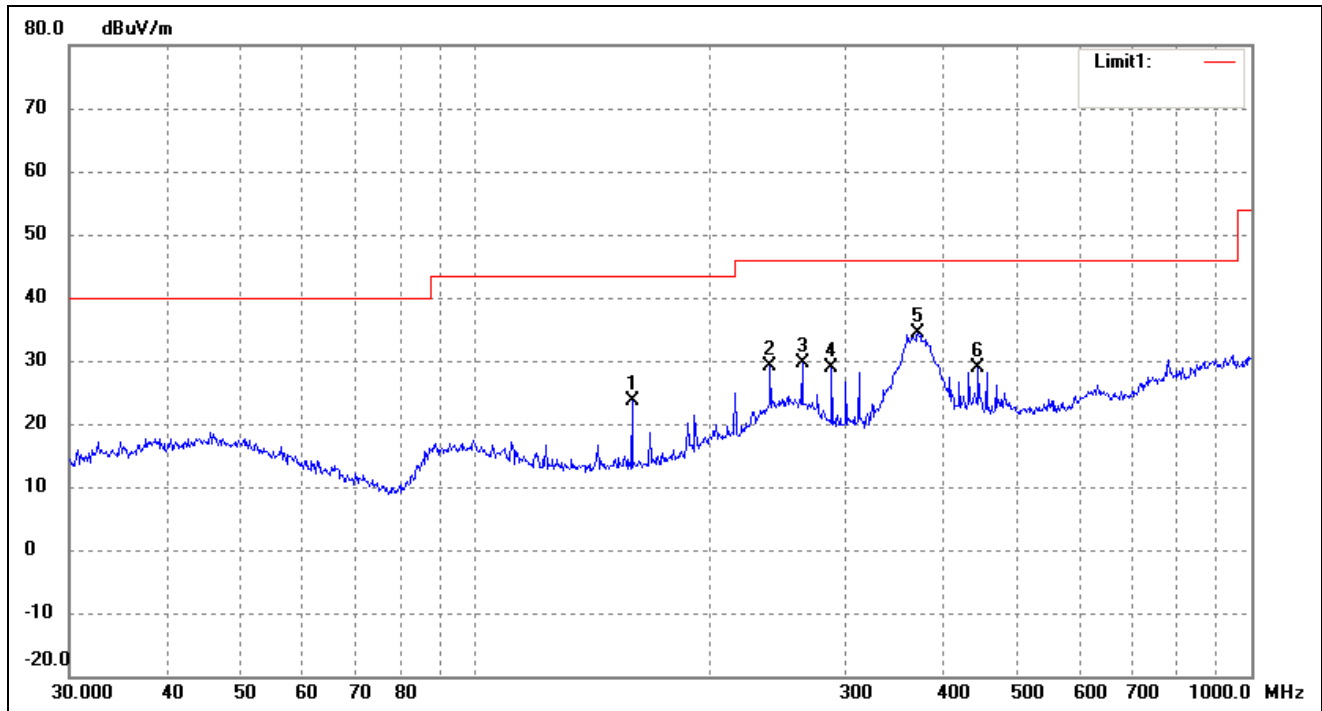
-0.22 dB at 4816 MHz in the Horizontal polarization, Low Channel, 9 kHz to 25 GHz, 3Meters

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)

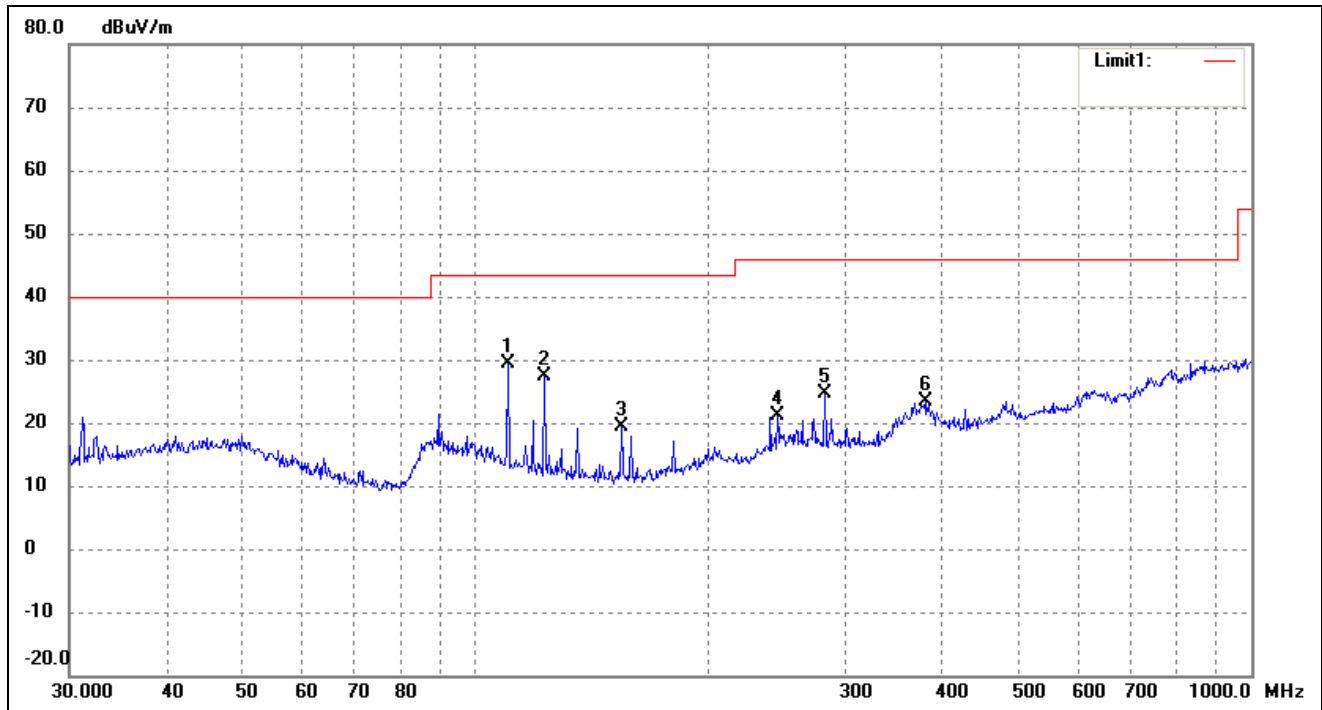
EUT: Wireless Mouse
Tested Model: G3Z
Operating Condition: Transmitting Low Channel (2408MHz)
Comment: DC 1.5V

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	159.2251	38.65	-15.03	23.62	43.50	-19.88	75	100	peak
2	239.9874	40.17	-10.96	29.21	46.00	-16.79	90	100	peak
3	263.8190	39.51	-9.96	29.55	46.00	-16.45	98	100	peak
4	287.9904	38.53	-9.60	28.93	46.00	-17.07	95	100	peak
5	372.0045	41.67	-7.36	34.31	46.00	-11.69	242	100	peak
6	444.8514	36.04	-7.27	28.77	46.00	-17.23	239	100	peak

Test Specification: Vertical

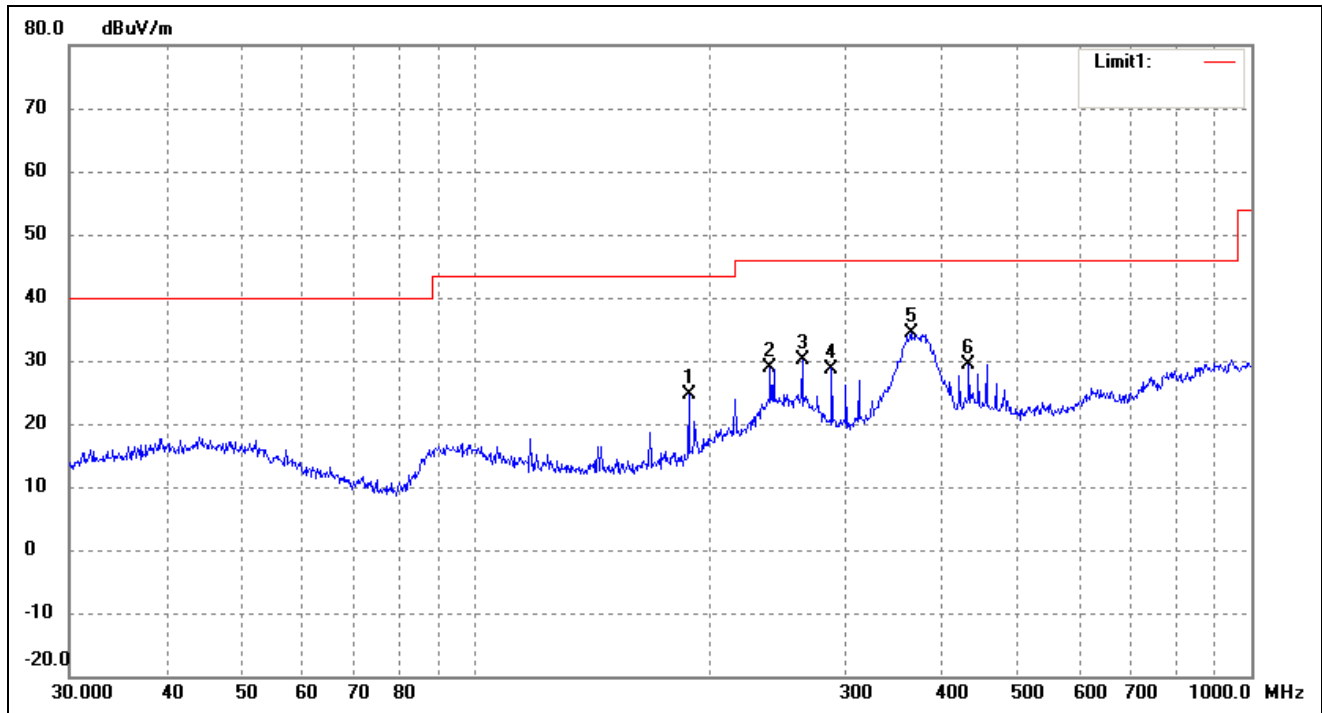


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	110.1816	41.83	-12.57	29.26	43.50	-14.24	169	100	peak
2	122.8340	41.32	-13.85	27.47	43.50	-16.03	135	100	peak
3	154.2786	34.31	-14.99	19.32	43.50	-24.18	118	100	peak
4	245.0900	31.94	-10.73	21.21	46.00	-24.79	104	100	peak
5	281.9946	34.22	-9.54	24.68	46.00	-21.32	324	100	peak
6	379.9141	30.49	-7.00	23.49	46.00	-22.51	299	100	peak

Operating Condition: Transmitting Middle Channel (2440MHz)

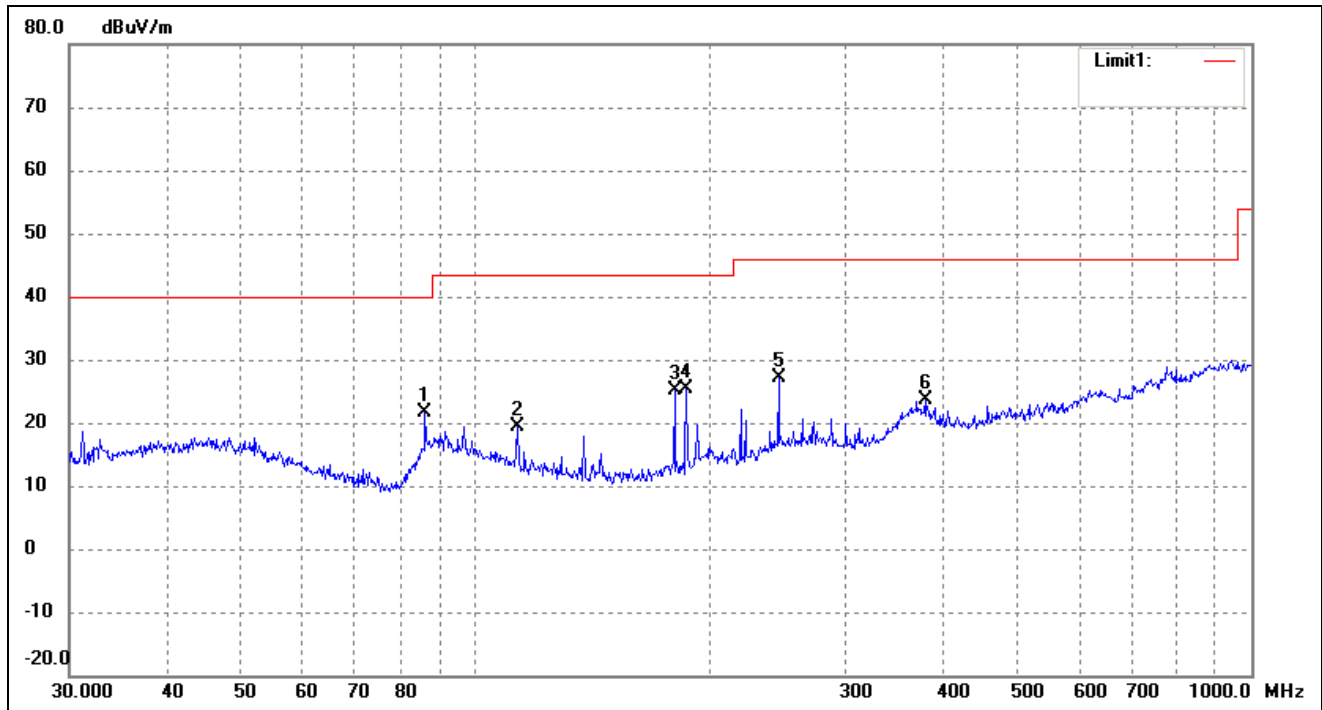
Comment: DC 1.5V

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	188.4125	37.72	-13.12	24.60	43.50	-18.90	105	100	peak
2	239.9874	39.90	-10.96	28.94	46.00	-17.06	347	100	peak
3	263.8190	40.09	-9.96	30.13	46.00	-15.87	97	100	peak
4	287.9904	38.35	-9.60	28.75	46.00	-17.25	325	100	peak
5	364.2595	42.08	-7.71	34.37	46.00	-11.63	112	100	peak
6	432.5457	37.06	-7.62	29.44	46.00	-16.56	290	100	peak

Test Specification: Vertical

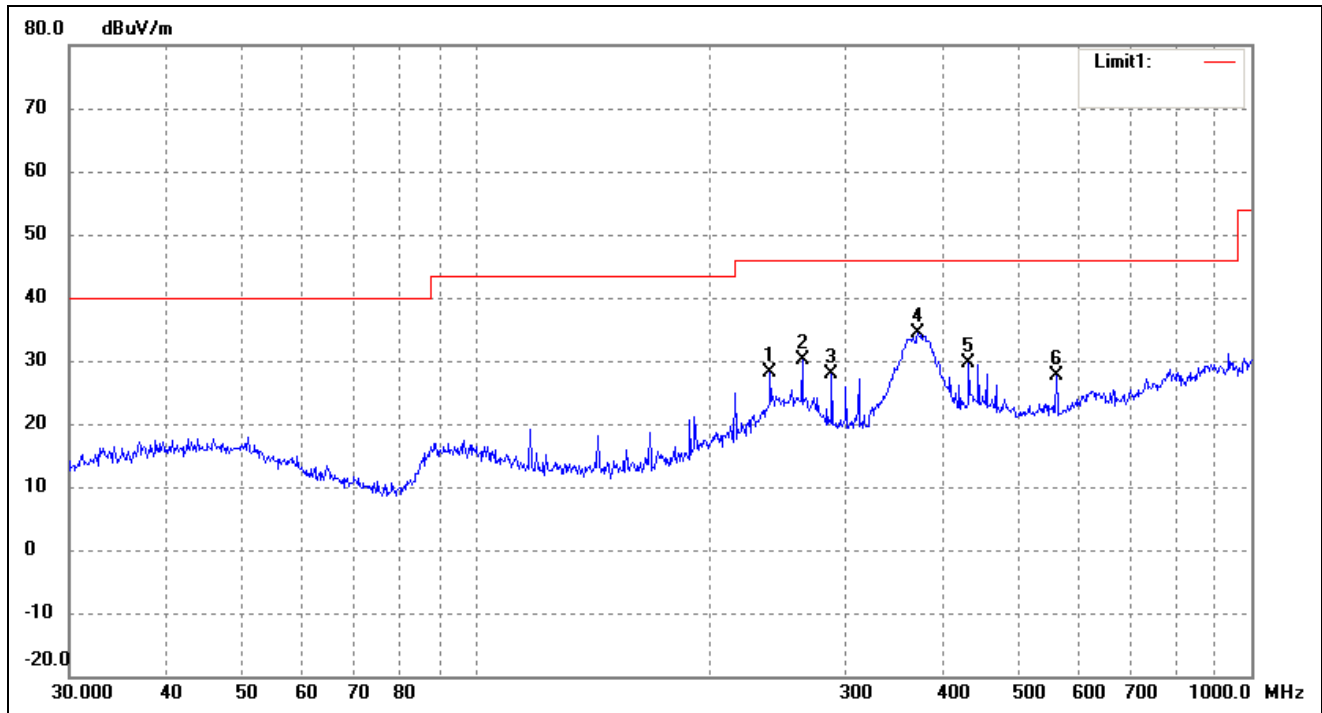


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	86.2001	37.01	-15.34	21.67	40.00	-18.33	94	100	peak
2	113.3163	32.22	-12.93	19.29	43.50	-24.21	289	100	peak
3	180.6488	39.24	-14.14	25.10	43.50	-18.40	82	100	peak
4	187.0958	38.66	-13.29	25.37	43.50	-18.13	145	100	peak
5	245.9509	37.85	-10.69	27.16	46.00	-18.84	275	100	peak
6	379.9141	30.56	-7.00	23.56	46.00	-22.44	269	100	peak

Operating Condition: Transmitting High Channel (2474MHz)

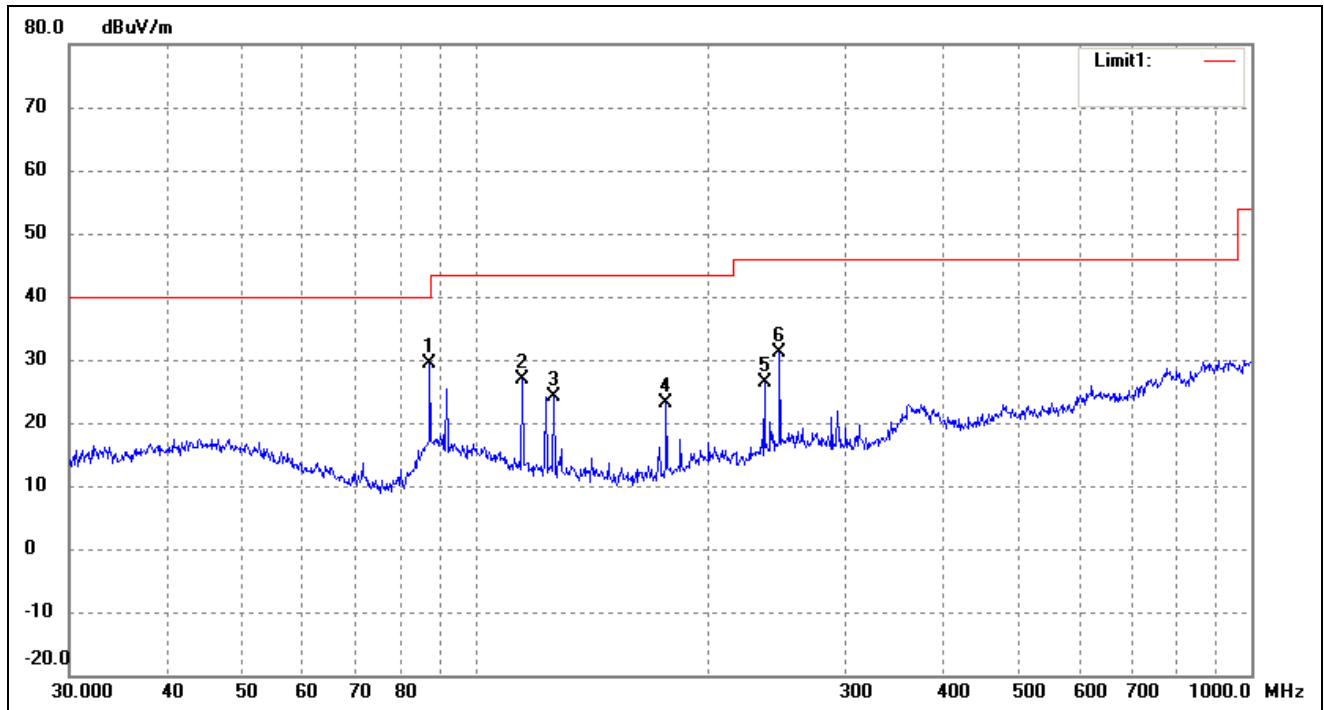
Comment: DC 1.5V

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	239.9874	39.19	-10.96	28.23	46.00	-17.77	280	100	peak
2	263.8190	40.09	-9.96	30.13	46.00	-15.87	100	100	peak
3	287.9904	37.50	-9.60	27.90	46.00	-18.10	186	100	peak
4	372.0045	41.66	-7.36	34.30	46.00	-11.70	99	100	peak
5	432.5457	37.31	-7.62	29.69	46.00	-16.31	190	100	peak
6	560.6928	33.40	-5.74	27.66	46.00	-18.34	125	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	87.4177	44.13	-14.79	29.34	40.00	-10.66	281	100	peak
2	114.9169	40.02	-13.11	26.91	43.50	-16.59	94	100	peak
3	126.3286	38.29	-14.05	24.24	43.50	-19.26	307	100	peak
4	176.2686	37.47	-14.37	23.10	43.50	-20.40	109	100	peak
5	235.8164	37.61	-11.28	26.33	46.00	-19.67	60	100	peak
6	246.8149	41.85	-10.65	31.20	46.00	-14.80	105	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-2408MHz							
2408.000	83.99	-4.45	79.54	114	-34.46	H	PK
2408.000	76.37	-4.44	71.93	94	-22.07	H	AV
4816.000	66.70	-0.96	65.74	74.00	-8.26	H	PK
4816.000	54.74	-0.96	53.78	54.00	-0.22	H	AV
7224.000	42.99	1.34	44.33	54.00	-9.67	H	PK
7224.000	57.58	1.35	58.93	74.00	-15.07	H	AV
2408.000	94.45	-4.45	90.00	114	-24.00	V	PK
2408.000	76.95	-4.44	72.51	94	-21.49	V	AV
4816.000	67.52	-0.96	66.56	74.00	-7.44	V	PK
4816.000	53.48	-0.96	52.52	54.00	-1.48	V	AV
7224.000	55.28	1.35	56.63	74.00	-17.37	V	PK
7224.000	40.79	1.35	42.14	54.00	-11.86	V	AV
Middle Channel-2440MHz							
2440.000	83.95	-4.42	79.53	114	-34.47	H	PK
2440.000	79.92	-4.42	75.50	94	-18.50	H	AV
4880.000	67.67	-0.78	66.89	74.00	-7.11	H	PK
4880.000	52.75	-0.78	51.97	54.00	-2.03	H	AV
7320.000	54.69	1.39	56.08	74.00	-17.92	H	PK
7320.000	42.93	1.39	44.32	54.00	-9.68	H	AV
2440.000	95.16	-4.42	90.74	114	-23.26	V	PK
2440.000	76.54	-4.42	72.12	94	-21.88	V	AV
4880.000	67.61	-0.78	66.83	74.00	-7.17	V	PK
4880.000	54.30	-0.78	53.52	54.00	-0.48	V	AV
7320.000	58.65	1.39	60.04	74.00	-13.96	V	PK
7320.000	47.12	1.39	48.51	54.00	-5.49	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2474MHz							
2474.000	83.94	-4.37	79.57	114	-34.43	H	PK
2474.000	76.40	-4.37	72.03	94	-21.97	H	AV
4948.000	65.61	-0.62	64.99	74.00	-9.01	H	PK
4948.000	53.53	-0.62	52.91	54.00	-1.09	H	AV
7422.000	41.35	1.44	42.79	54.00	-11.21	H	PK
7422.000	54.84	1.45	56.29	74.00	-17.71	H	AV
2474.000	91.77	-4.37	87.40	114	-26.60	V	PK
2474.000	73.97	-4.37	69.60	94	-24.40	V	AV
4948.000	63.29	-0.62	62.67	74.00	-11.33	V	PK
4948.000	51.80	-0.62	51.18	54.00	-2.82	V	AV
7422.000	42.72	1.44	44.16	54.00	-9.84	V	PK
7422.000	57.30	1.45	58.75	74.00	-15.25	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

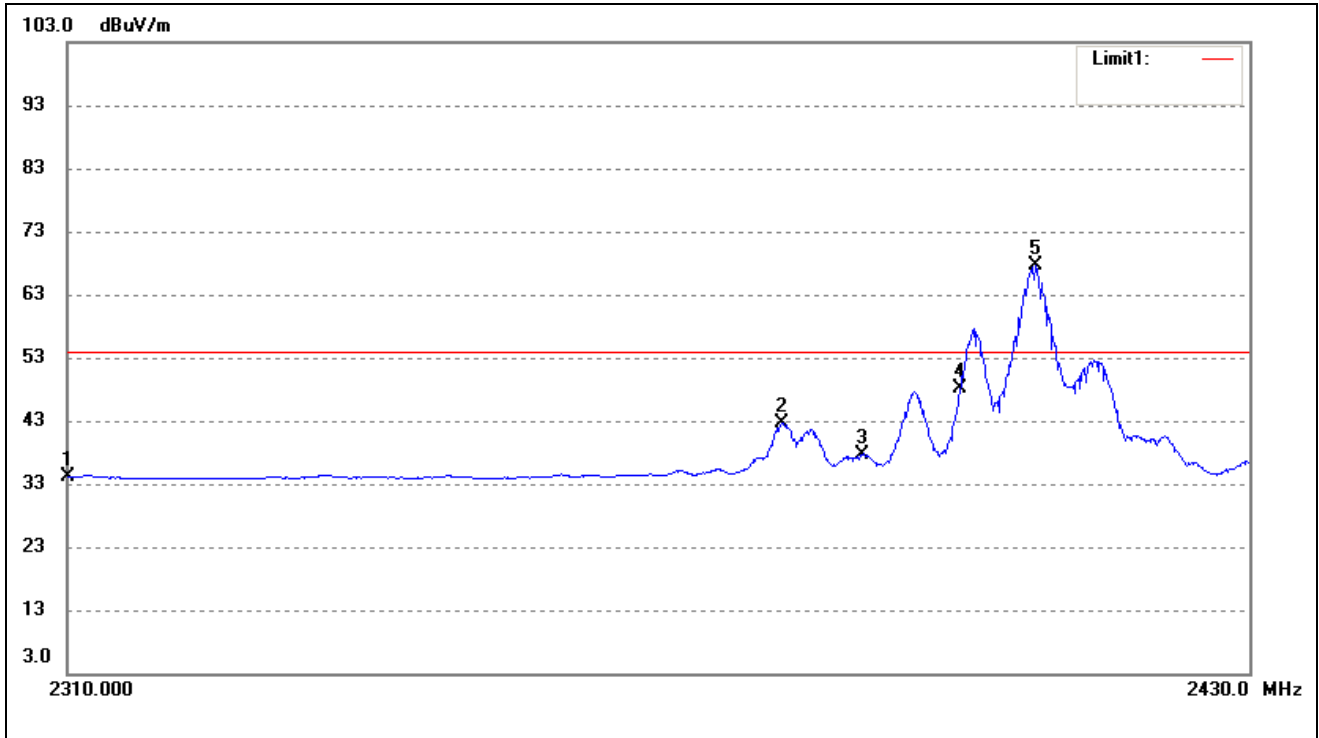
5.4 Summary of Test Results/Plots

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.

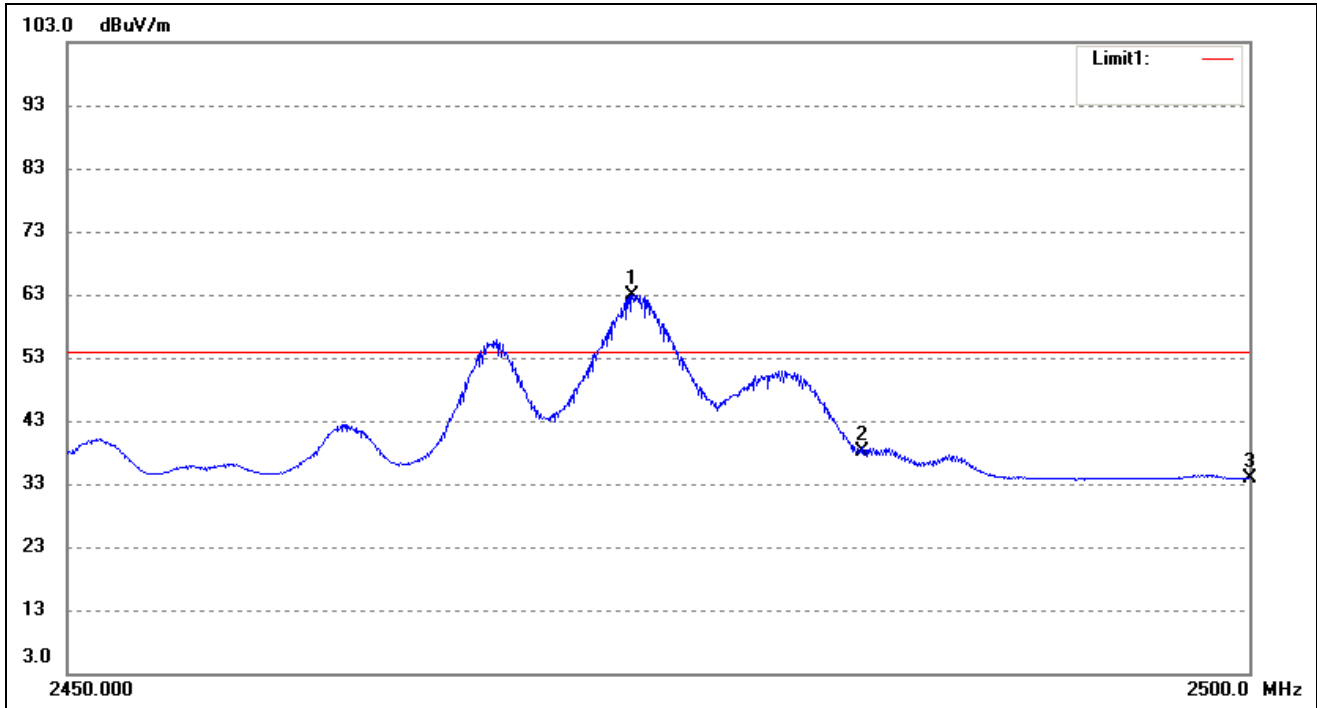
Please refer to the test plots as below.

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	35.19	-1.00	34.19	54.00	-19.81	Ave Detector
	2310.000	48.01	-1.00	47.01	74.00	-26.99	Peak Detector
2	2381.752	43.51	-0.89	42.62	54.00	-11.38	Ave Detector
	2381.752	60.76	-0.89	59.87	74.00	-14.13	Peak Detector
3	2390.000	38.53	-0.88	37.65	54.00	-16.35	Ave Detector
	2390.000	59.74	-0.88	58.86	74.00	-15.14	Peak Detector
4	2400.000	48.91	-0.86	48.05	54.00	-5.95	Ave Detector
	2400.000	63.95	-0.86	63.09	74.00	-10.91	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	2473.774	63.64	-0.74	62.90	/	/	Ave Detector
	2473.524	90.84	-0.74	90.10	/	/	Peak Detector
2	2483.500	38.84	-0.73	38.11	54.00	-15.89	Ave Detector
	2483.500	58.22	-0.73	57.49	74.00	-16.51	Peak Detector
3	2500.000	34.48	-0.70	33.78	54.00	-20.22	Ave Detector
	2500.000	46.67	-0.70	45.97	74.00	-28.03	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

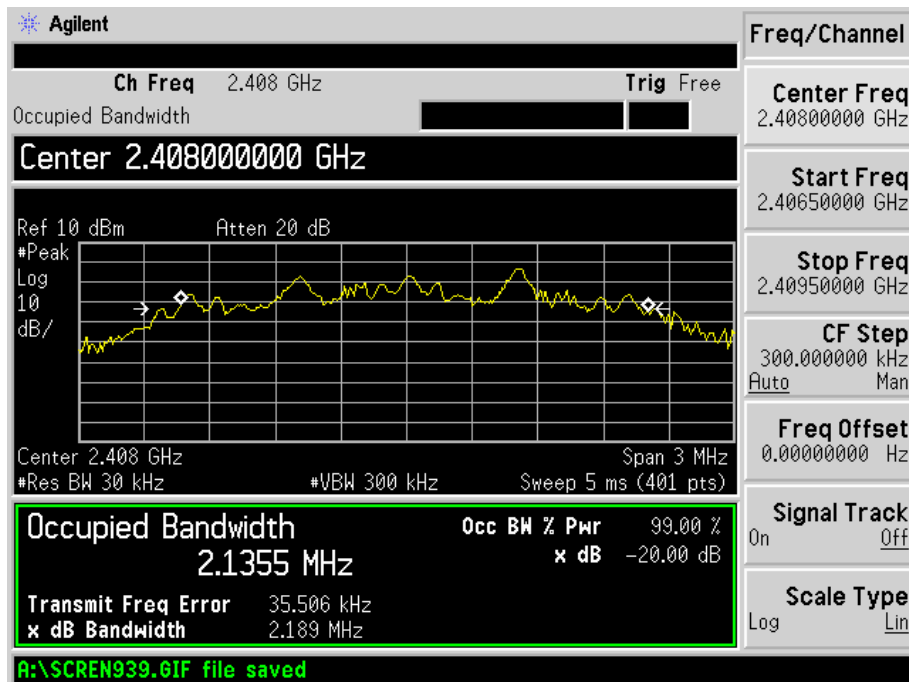
Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.4 Summary of Test Results/Plots

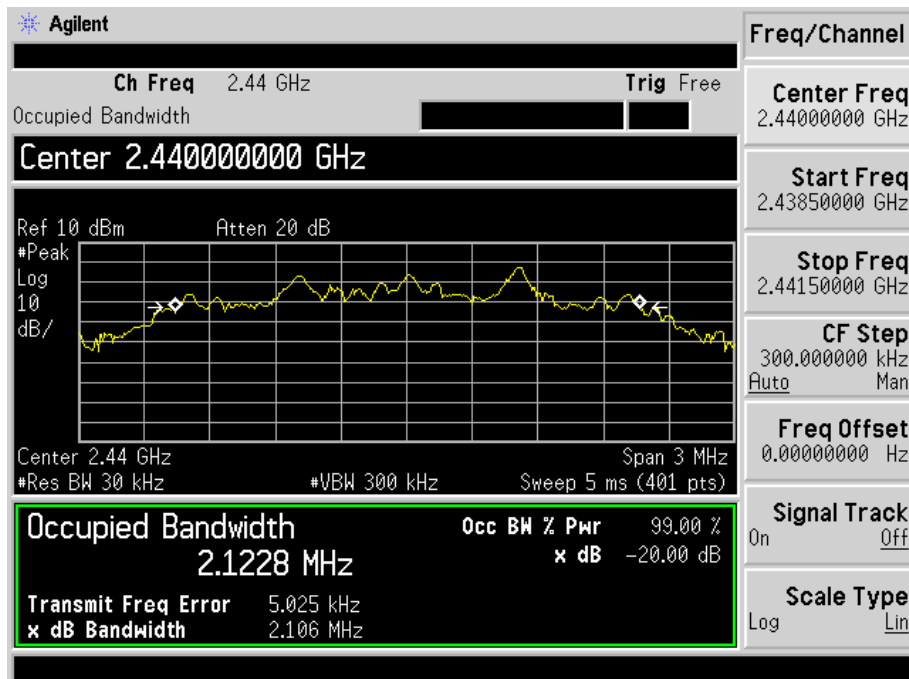
Channel	Frequency MHz	20dB Bandwidth kHz	99% Bandwidth kHz
Low Channel	2408	2189	2135.5
Middle Channel	2440	2106	2122.8
High Channel	2474	2099	2067.3

Please refer to the following test plots

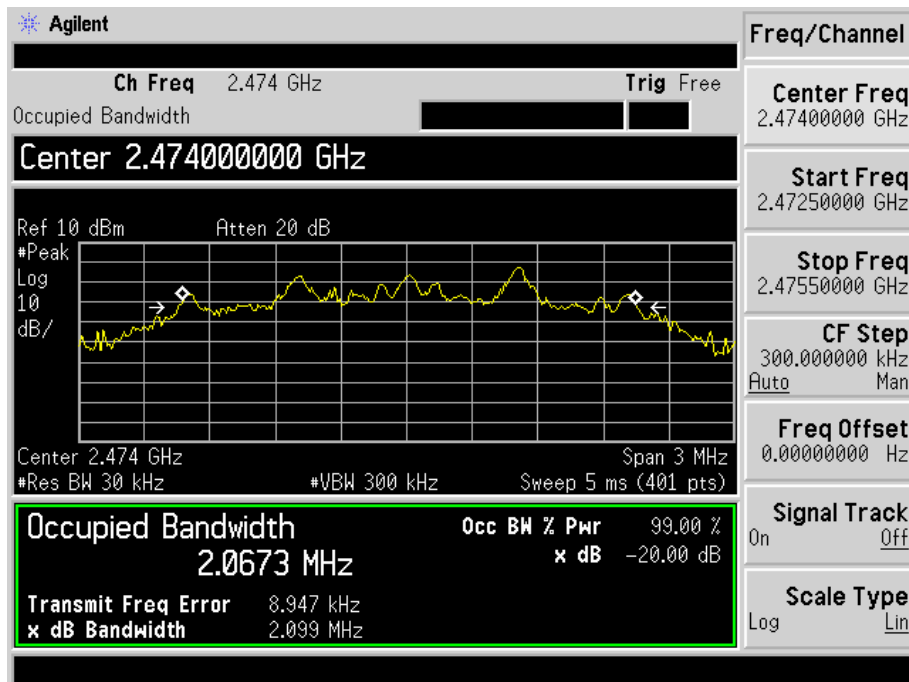
Low Channel:



Middle Channel:



High Channel:



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