

# FCC Part 15C


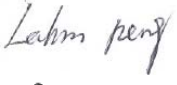

## Measurement and Test Report

For

**Acrox Technologies Co., Ltd.**

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

**FCC ID: PRDMU28**

<b>FCC Rule(s):</b>	<u>FCC Part 15.249</u>
<b>Product Description:</b>	<u>2.4 G wireless mouse</u>
<b>Tested Model:</b>	<u>GOI</u>
<b>Report No.:</b>	<u>STR14098241I</u>
<b>Tested Date:</b>	<u>2014-09-29 to 2014-10-13</u>
<b>Issued Date:</b>	<u>2014-10-13</u>
<b>Tested By:</b>	<u>Jason Su / Engineer</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.

**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

**2. SUMMARY OF TEST RESULTS .....6**

**3. ANTENNA REQUIREMENTS.....7**  
3.1 STANDARD APPLICABLE.....7  
3.2 TEST RESULT.....7

**4. RADIATED EMISSIONS.....8**  
4.1 MEASUREMENT UNCERTAINTY .....8  
4.2 STANDARD APPLICABLE.....8  
4.3 TEST EQUIPMENT LIST AND DETAILS .....8  
4.4 TEST PROCEDURE.....9  
4.5 CORRECTED AMPLITUDE & MARGIN CALCULATION.....9  
4.6 ENVIRONMENTAL CONDITIONS .....10  
4.7 SUMMARY OF TEST RESULTS/PLOTS .....10

**5. OUT OF BAND EMISSIONS.....19**  
5.1 STANDARD APPLICABLE.....19  
5.2 TEST EQUIPMENT LIST AND DETAILS .....19  
5.3 TEST PROCEDURE.....19  
5.4 ENVIRONMENTAL CONDITIONS .....19  
5.5 SUMMARY OF TEST RESULTS/PLOTS .....19

**6. EMISSION BANDWIDTH.....22**  
6.1 STANDARD APPLICABLE.....22  
6.2 TEST EQUIPMENT LIST AND DETAILS .....22  
6.3 TEST PROCEDURE.....22  
6.4 ENVIRONMENTAL CONDITIONS .....22  
6.5 SUMMARY OF TEST RESULTS/PLOTS .....22

## 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:	2.4 G wireless mouse
Trade Name:	ACROX
Model No.:	GOI
Adding Model(s):	/
Rated Voltage:	Battery:DC1.5V
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:	91.53dBuV/m
Data Rate:	/
Modulation:	FSK
Quantity of Channels:	34
Channel Separation:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	-5dBi
Lowest Internal Frequency of EUT:	12MHz
Device Category:	Portable device

## 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 C63.4-2003, 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 2<sup>nd</sup> 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:

<b>Test Mode List</b>		
Test Mode	Description	Remark
TM1	Low Channel	2408MHz
TM2	Middle Channel	2440MHz
TM3	High Channel	2474MHz

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

<b>Auxiliary Equipment List and Details</b>			
Description	Manufacturer	Model	Serial Number
/	/	/	/

## 2. SUMMARY OF TEST RESULTS

<b>FCC Rules</b>	<b>Description of Test Item</b>	<b>Result</b>
§ 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**

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#### **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 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is  $\pm 5.10$  dB.

### 4.2 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.

### 4.3 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2014-05-28	2015-05-27
EMI Test Receiver	R&S	ESVB	825471/005	2014-05-28	2015-05-27
Pre-amplifier	Agilent	8447F	3113A06717	2014-05-28	2015-05-27
Pre-amplifier	Compliance Direction	PAP-0118	24002	2014-05-28	2015-05-27
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2014-05-24	2015-05-23
Horn Antenna	ETS	3117	00086197	2014-05-24	2015-05-23
Loop Antenna	SCHWARZECK	HFRA 5165	9365	2014-05-24	2015-05-23

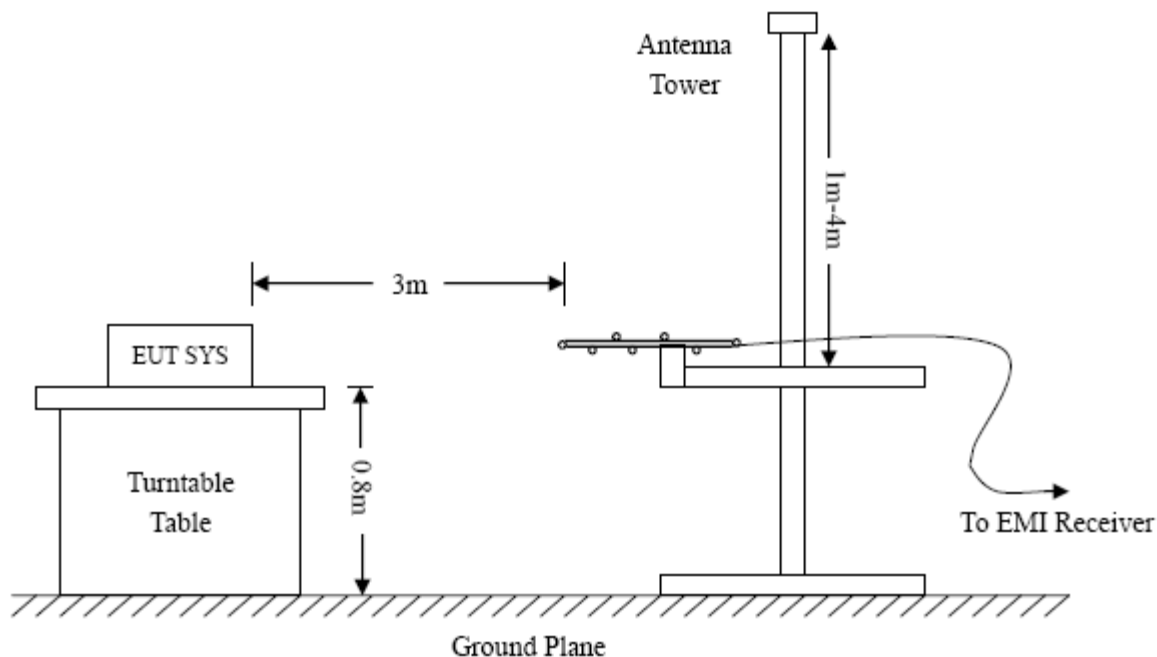


### 4.4 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 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

### 4.5 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 -6dBµV means the emission is 6dBµV below the maximum limit. The equation for margin calculation is as follows:

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

#### 4.6 Environmental Conditions

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

#### 4.7 Summary of Test Results/Plots

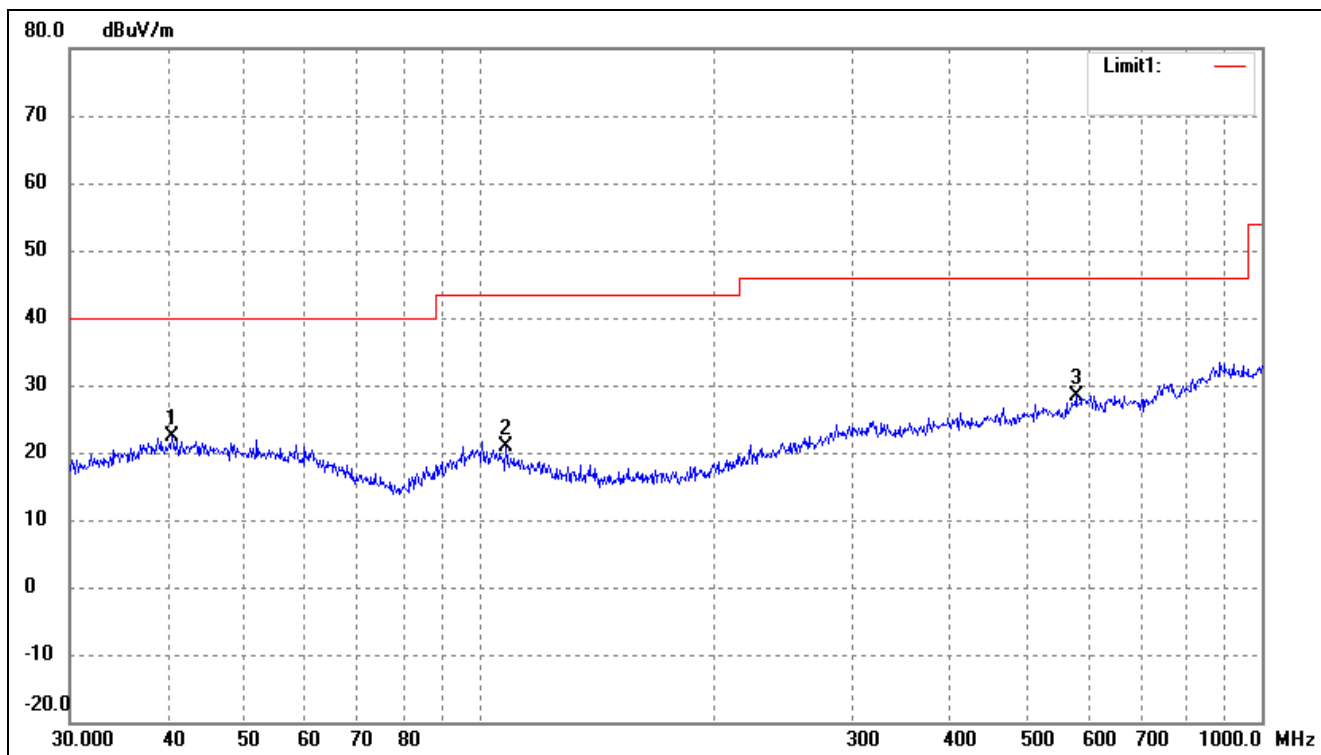
According to the data below, the FCC Part 15.205, 15.209 and 15.249 standards, and had the worst margin of:

**-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.*

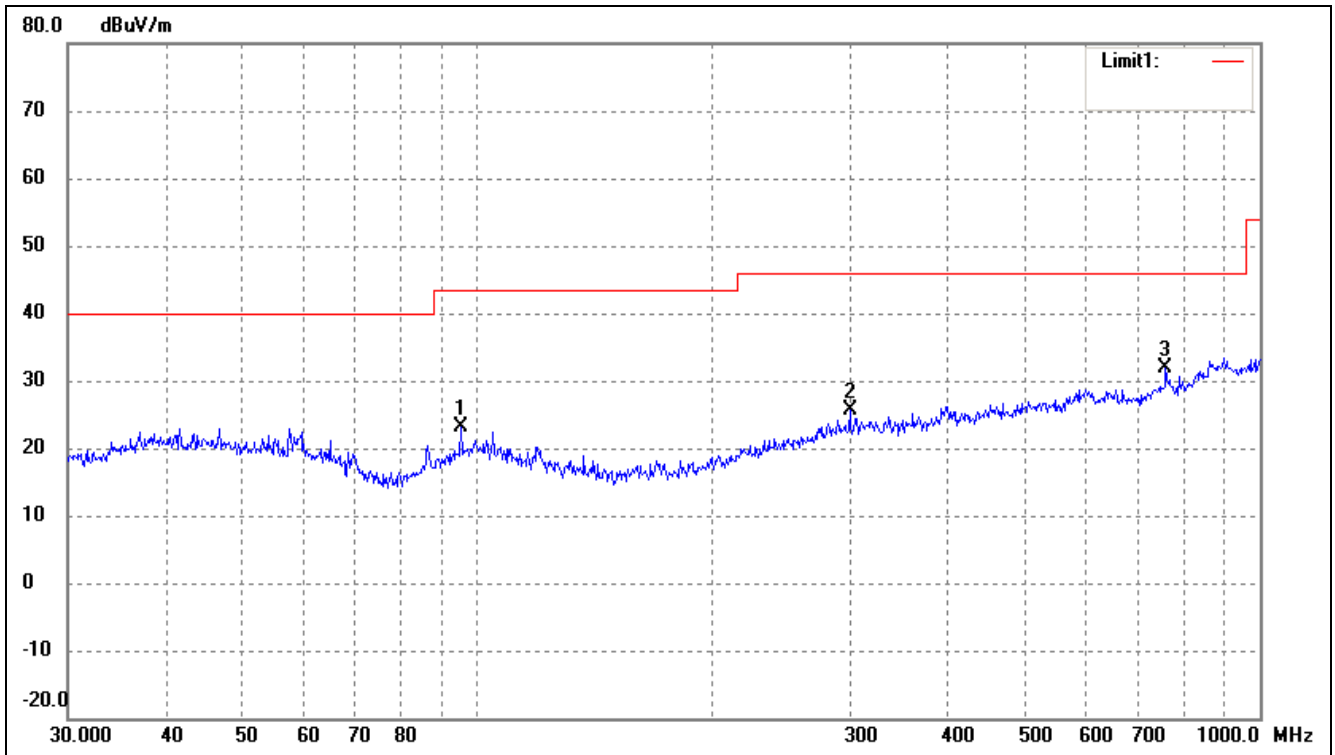
**Plot of Radiated Emissions Test Data (30MHz to 1GHz)**

EUT: 2.4 G wireless mouse  
 Tested Model: GOI  
 Operating Condition: Transmitting Low Channel (2408MHz)  
 Comment: Transmitter  
  
 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	40.5591	15.08	7.19	22.27	40.00	-17.73	154	100	peak
2	108.2667	15.55	5.26	20.81	43.50	-22.69	98	200	peak
3	578.6699	15.95	12.50	28.45	46.00	-17.55	120	100	peak

Test Specification: Vertical

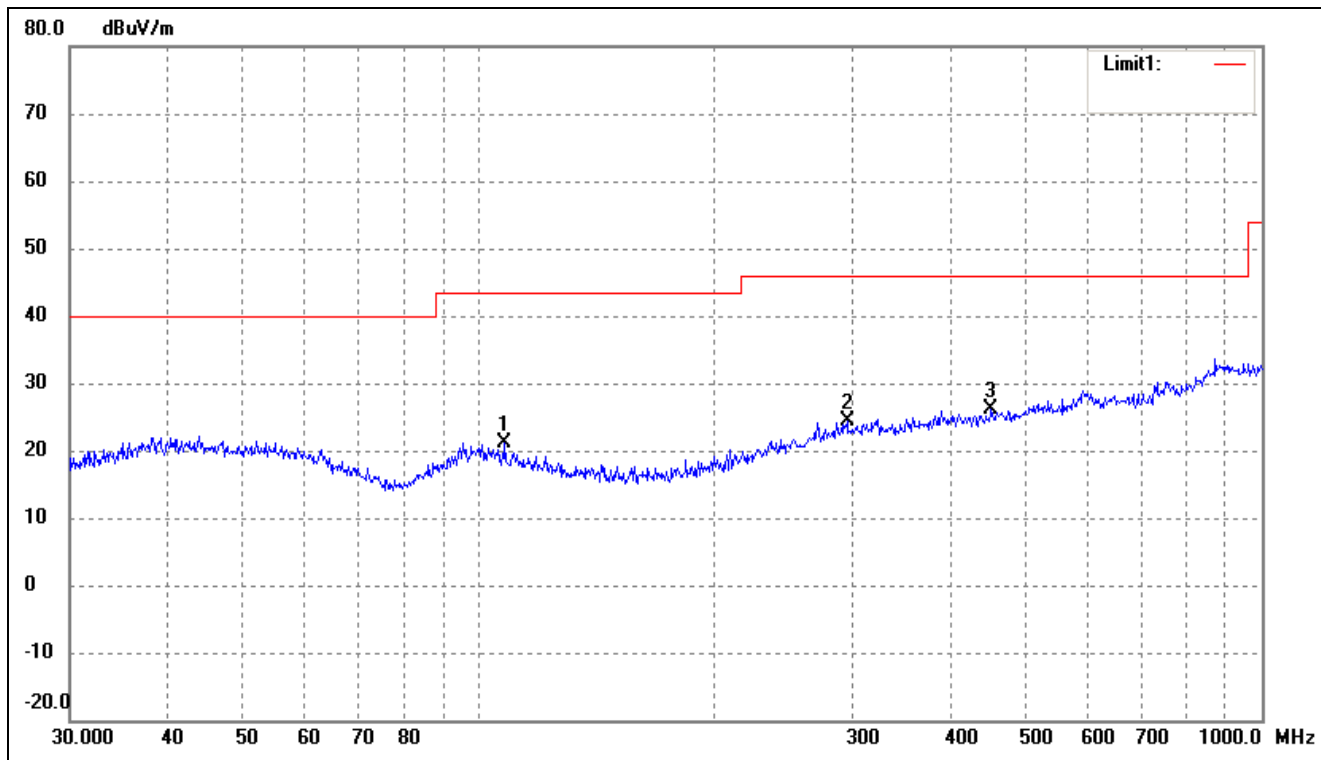


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	95.4270	18.04	4.98	23.02	43.50	-20.48	128	100	peak
2	299.3158	16.47	9.15	25.62	46.00	-20.38	98	100	peak
3	758.0408	17.06	14.74	31.80	46.00	-14.20	235	100	peak

Operating Condition: Transmitting Middle Channel (2440MHz)

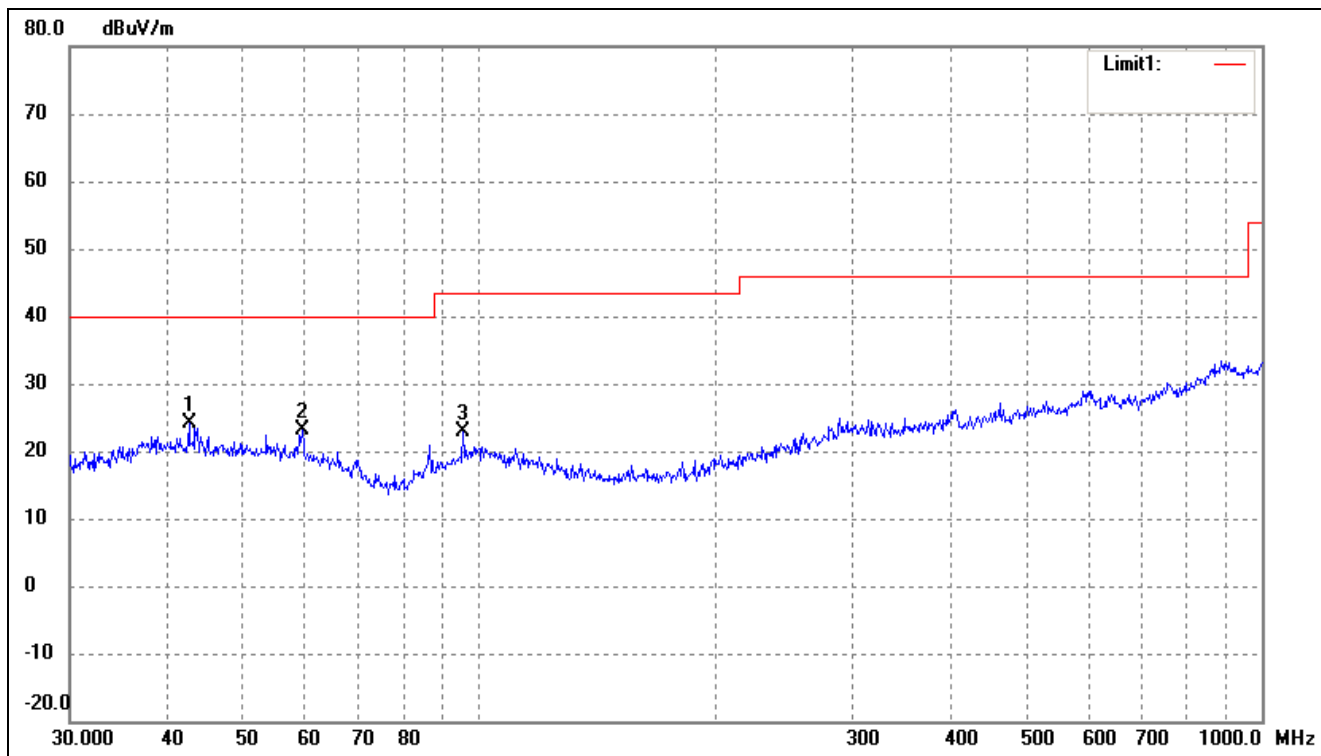
Comment: Transmitter

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	107.8877	15.93	5.30	21.23	43.50	-22.27	162	100	peak
2	295.1469	15.27	8.99	24.26	46.00	-21.74	154	100	peak
3	451.1350	15.73	10.32	26.05	46.00	-19.95	321	100	peak

Test Specification: Vertical

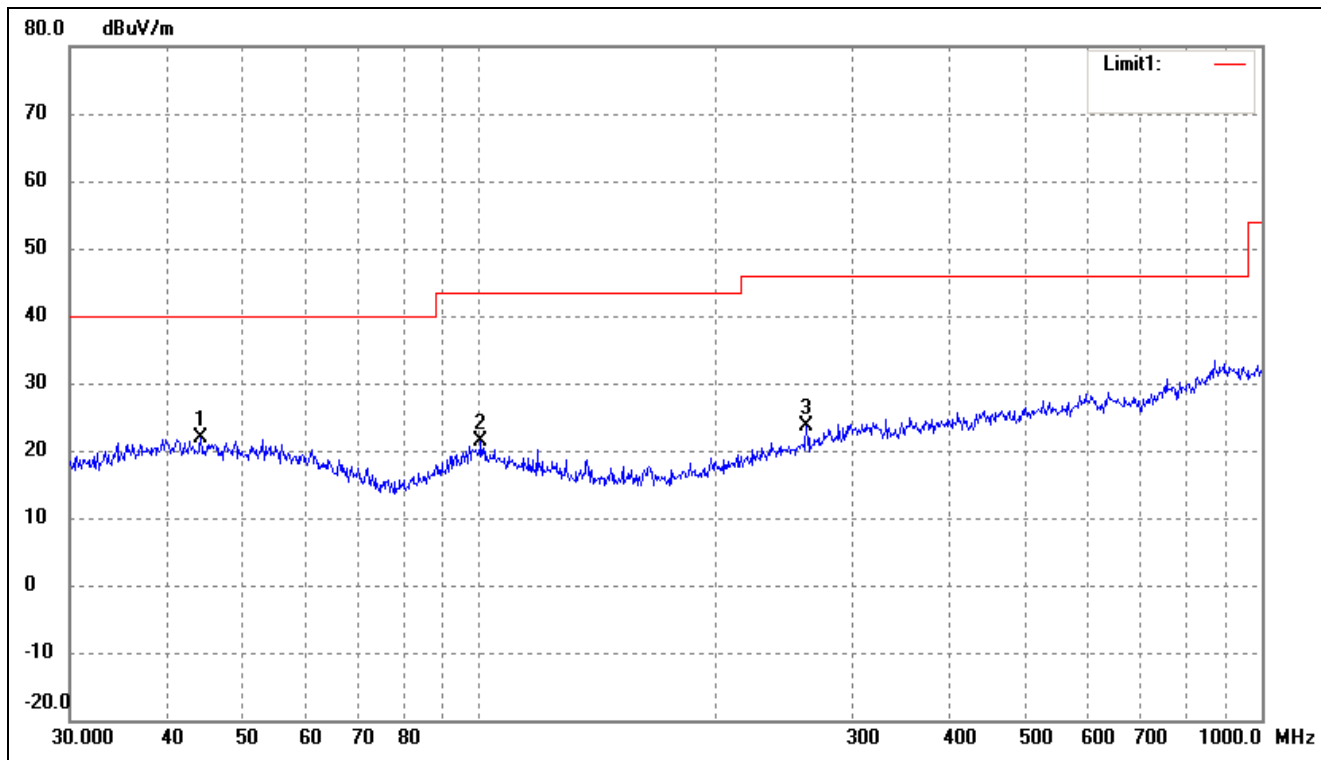


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	42.6000	15.69	8.47	24.16	40.00	-15.84	141	100	peak
2	59.4405	17.75	5.43	23.18	40.00	-16.82	241	200	peak
3	95.4270	17.98	4.98	22.96	43.50	-20.54	324	100	peak

Operating Condition: Transmitting High Channel (2474MHz)

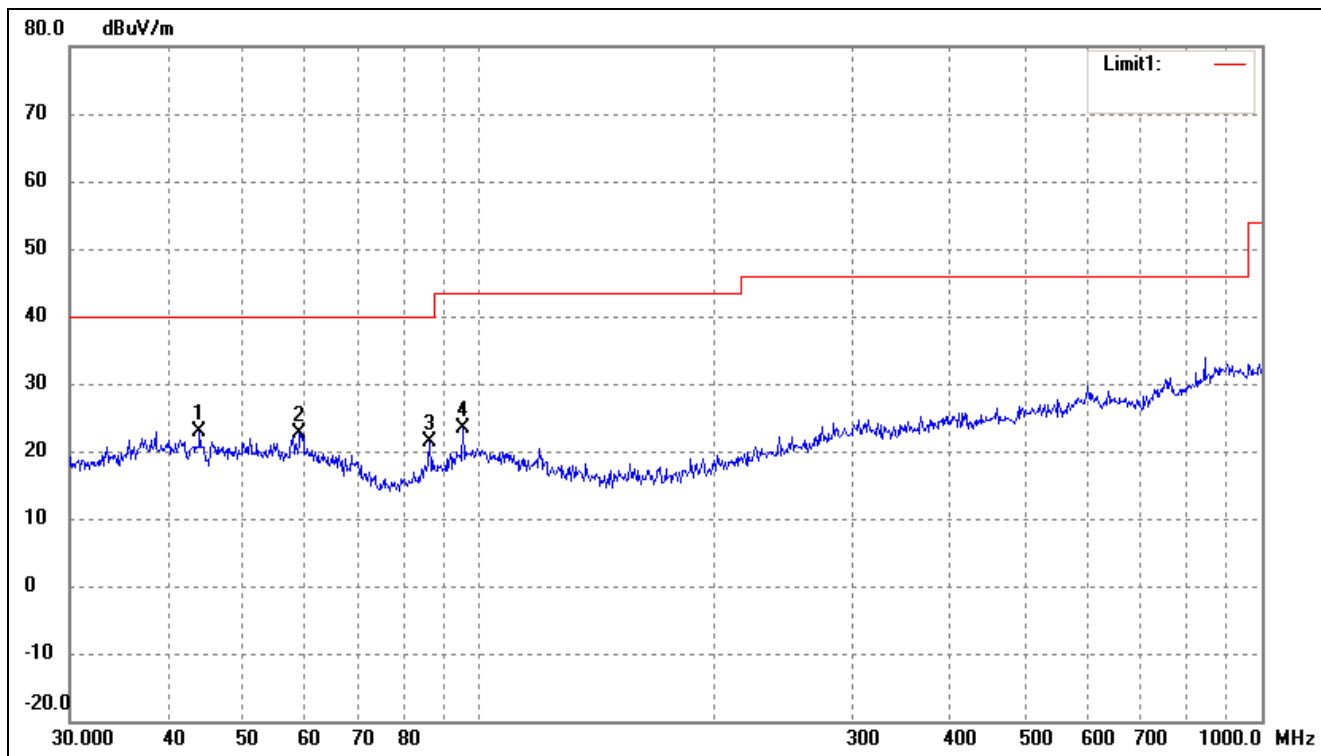
Comment: Transmitter

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	44.1202	14.97	6.85	21.82	40.00	-18.18	32	100	peak
2	100.5806	15.33	6.07	21.40	43.50	-22.10	100	100	peak
3	261.9753	16.46	7.17	23.63	46.00	-22.37	98	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	43.9658	14.74	8.07	22.81	40.00	-17.19	145	100	peak
2	59.0251	17.16	5.47	22.63	40.00	-17.37	120	100	peak
3	86.5029	18.76	2.70	21.46	40.00	-18.54	35	100	peak
4	95.4270	18.45	4.98	23.43	43.50	-20.07	241	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	91.84	-3.51	88.33	114.00	-25.67	H	PK
2408	75.64	-3.51	72.13	94.00	-21.87	H	AV
4816	47.08	0.55	47.63	74.00	-26.37	H	PK
4816	33.83	0.55	34.38	54.00	-19.62	H	AV
7224	35.13	3.68	38.81	74.00	-35.19	H	PK
7224	23.29	3.68	26.97	54.00	-27.03	H	AV
2408	92.51	-3.51	89.00	114.00	-25.00	V	PK
2408	76.32	-3.51	72.81	94.00	-21.19	V	AV
4816	47.94	0.55	48.49	74.00	-25.51	V	PK
4816	34.82	0.55	35.37	54.00	-18.63	V	AV
7224	33.78	3.68	37.46	74.00	-36.54	V	PK
7224	24.90	3.68	28.58	54.00	-25.42	V	AV
Middle Channel-2440MHz							
2440	88.73	-3.43	85.30	114.00	-28.70	H	PK
2440	72.87	-3.43	69.44	94.00	-24.56	H	AV
4880	47.59	0.64	48.23	74.00	-25.77	H	PK
4880	34.11	0.64	34.75	54.00	-19.25	H	AV
7320	39.27	3.75	43.02	74.00	-30.98	H	PK
7320	27.93	3.75	31.68	54.00	-22.32	H	AV
2440	93.03	-3.43	89.60	114.00	-24.40	V	PK
2440	77.14	-3.43	73.71	94.00	-20.29	V	AV
4880	48.29	0.64	48.93	74.00	-25.07	V	PK
4880	34.67	0.64	35.31	54.00	-18.69	V	AV
7320	40.03	3.75	43.78	74.00	-30.22	V	PK
7320	27.38	3.76	31.14	54.00	-22.86	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	86.74	-3.34	83.40	114.00	-30.60	H	PK
2474	71.21	-3.34	67.87	94.00	-26.13	H	AV
4948	33.32	0.75	34.07	54.00	-19.93	H	PK
4948	44.61	0.79	45.40	74.00	-28.60	H	AV
7422	42.93	3.84	46.77	74.00	-27.23	H	PK
7422	28.22	3.84	32.06	54.00	-21.94	H	AV
2474	94.87	-3.34	91.53	114.00	-22.47	V	PK
2474	79.26	-3.34	75.92	94.00	-18.08	V	AV
4948	49.58	0.75	50.33	74.00	-23.67	V	PK
4948	35.54	0.75	36.29	54.00	-17.71	V	AV
7422	40.11	3.84	43.95	74.00	-30.05	V	PK
7422	28.93	3.84	32.77	54.00	-21.23	V	AV

*Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 5<sup>th</sup> 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 Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2014-05-28	2015-05-27
EMI Test Receiver	R&S	ESVB	825471/005	2014-05-28	2015-05-27
Pre-amplifier	Agilent	8447F	3113A06717	2014-05-28	2015-05-27
Pre-amplifier	Compliance Direction	PAP-0118	24002	2014-05-28	2015-05-27
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2014-05-24	2015-05-23
Horn Antenna	ETS	3117	00086197	2014-05-24	2015-05-23

### 5.3 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.

### 5.4 Environmental Conditions

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

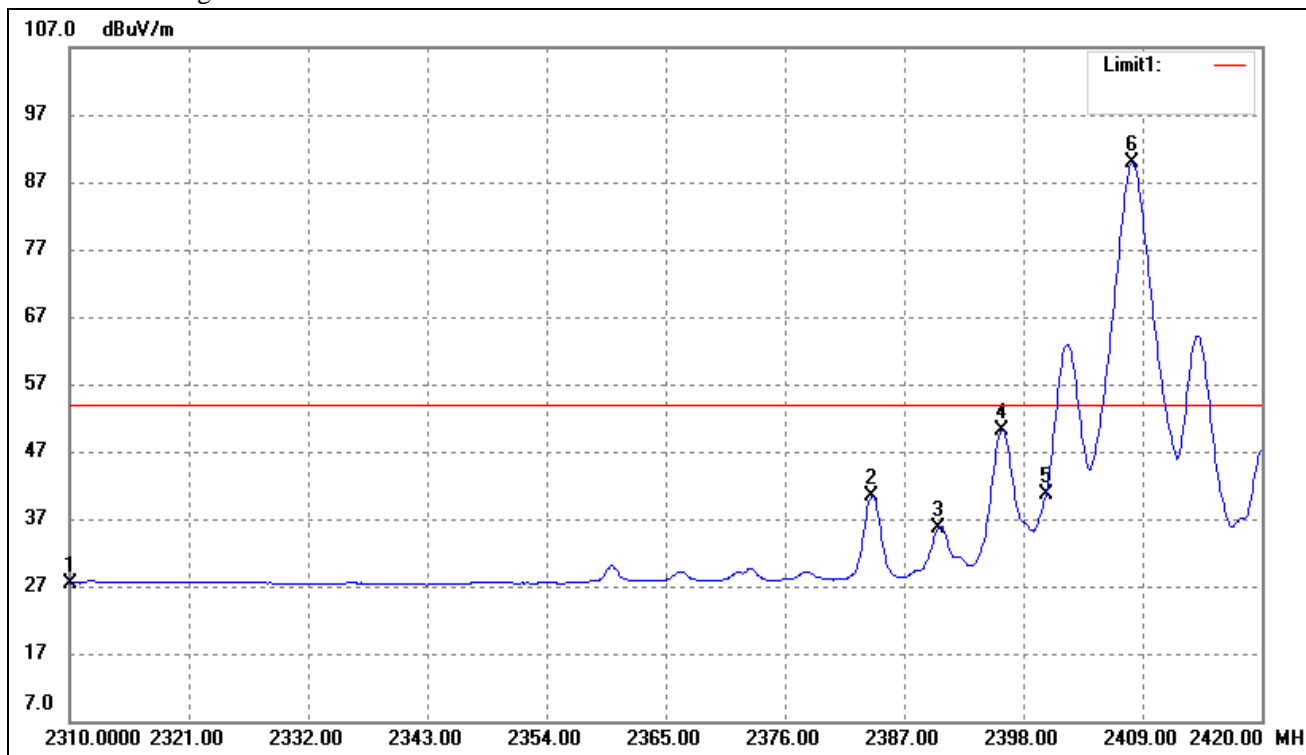
### 5.5 Summary of Test Results/Plots

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.

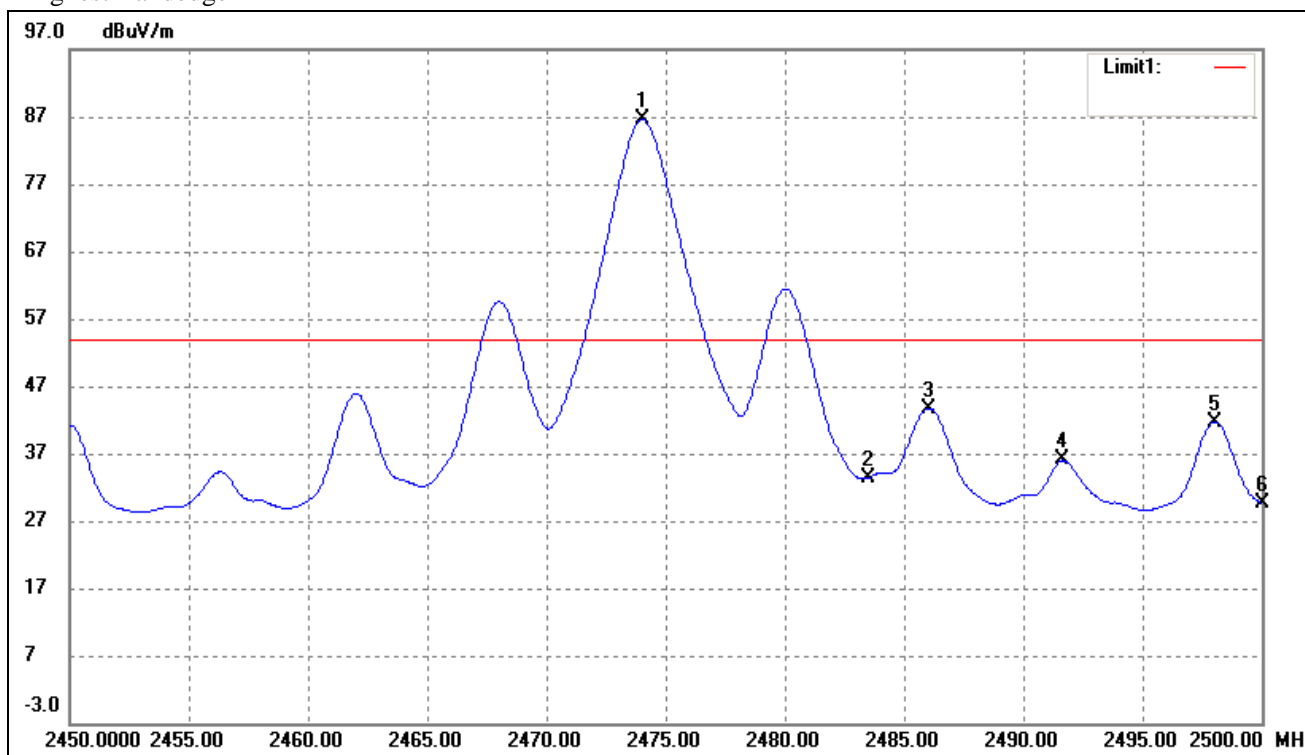
Please refer to the test plots as below.

Lowest Bandedge



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	31.18	-3.71	27.47	54.00	-26.53	Ave Detector
	2310.000	45.42	-3.71	41.71	74.00	-32.29	Peak Detector
2	2384.030	43.87	-3.55	40.32	54.00	-13.68	Ave Detector
	2384.030	56.61	-3.55	53.06	74.00	-20.94	Peak Detector
3	2390.000	39.09	-3.54	35.55	54.00	-18.45	Ave Detector
	2390.000	51.14	-3.54	47.60	74.00	-26.40	Peak Detector
4	2396.020	53.69	-3.52	50.17	54.00	-3.83	Ave Detector
	2396.020	66.10	-3.52	62.58	74.00	-11.42	Peak Detector
5	2400.000	44.15	-3.51	40.64	54.00	-13.36	Ave Detector
6	2408.010	93.32	-3.49	89.83	/	/	Ave Detector

Highest Bandedge



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2474.000	89.92	-3.34	86.58	/	/	Ave Detector
	2474.000	90.51	-3.34	87.17	/	/	Peak Detector
2	2483.500	36.78	-3.33	33.45	54.00	-20.55	Ave Detector
	2483.500	50.49	-3.33	47.16	74.00	-26.84	Peak Detector
3	2486.050	47.04	-3.31	43.73	54.00	-10.27	Ave Detector
	2486.050	57.20	-3.31	53.89	74.00	-20.11	Peak Detector
4	2491.650	39.31	-3.30	36.01	54.00	-17.99	Ave Detector
	2491.650	50.06	-3.30	46.76	74.00	-27.24	Peak Detector
5	2498.050	45.02	-3.28	41.74	54.00	-12.26	Ave Detector
	2498.050	54.26	-3.28	50.98	74.00	-23.02	Peak Detector
6	2500.000	35.18	-7.08	28.10	54.00	-25.90	Ave Detector
	2500.000	45.62	-3.28	42.34	74.00	-31.66	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 Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2014-05-28	2015-05-27
Attenuator	ATTEN	ATS100-4-20	/	2014-05-28	2015-05-27

### 6.3 Test Procedure

According to the ANSI 63.4-2003, 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.

### 6.4 Environmental Conditions

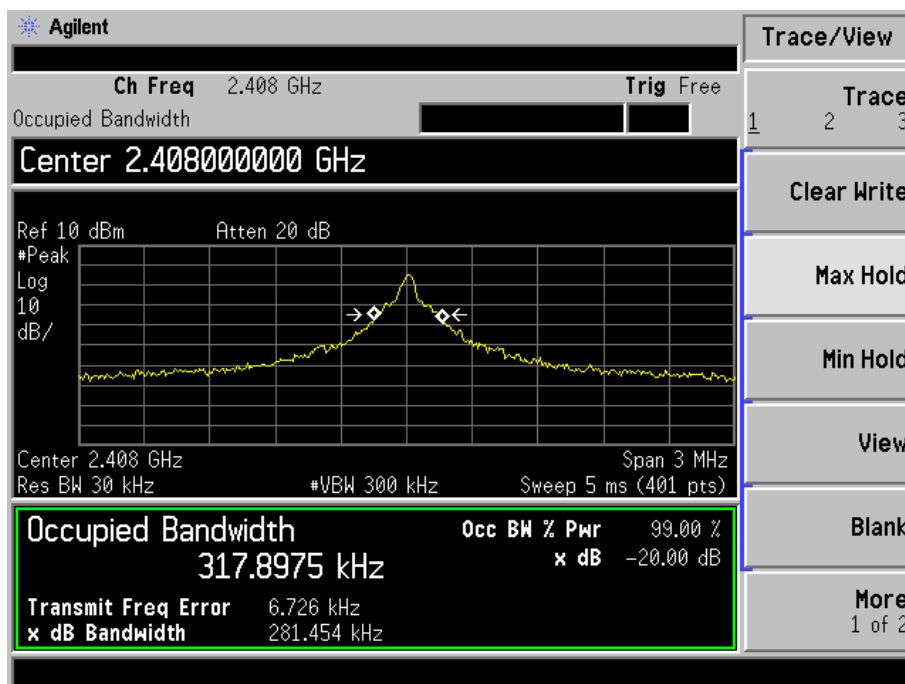
Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

### 6.5 Summary of Test Results/Plots

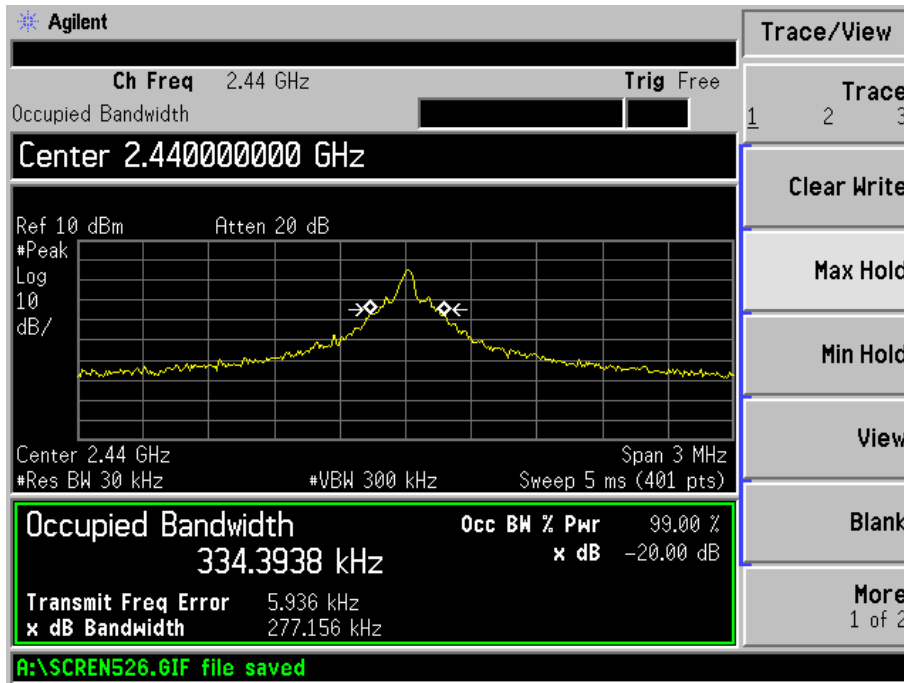
Channel	Frequency MHz	20dB Bandwidth kHz	99% Bandwidth kHz
Low Channel	2403	281.454	317.8975
Middle Channel	2440	277.156	334.3938
High Channel	2474	232.880	316.6948

Please refer to the following test plots

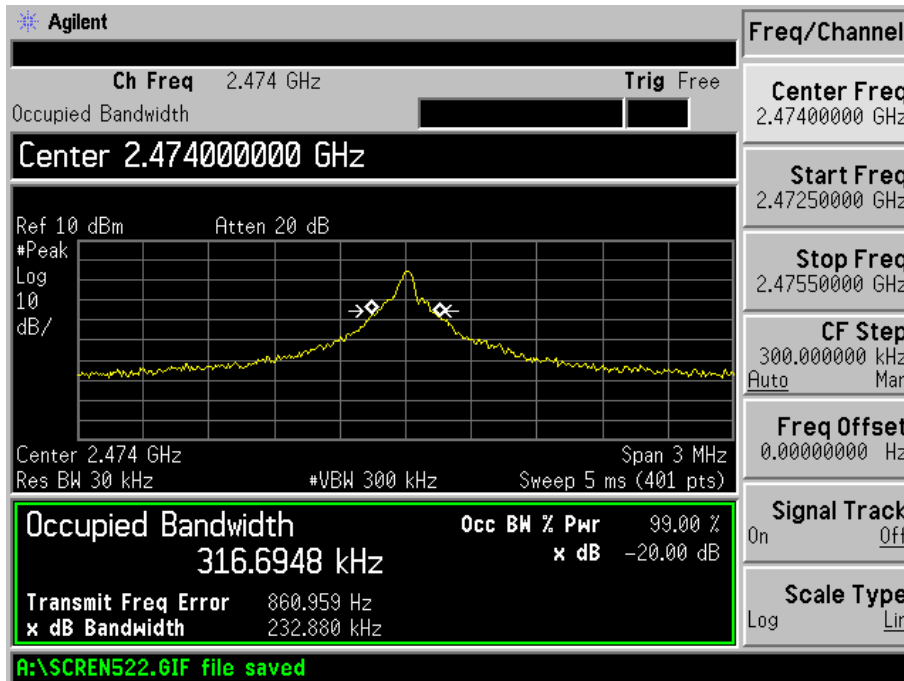
Low Channel:



Middle Channel:



High Channel:



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