

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: PRDMU31

FCC Rule(s):	<u>FCC Part 15.249</u>
Product Description:	<u>Wireless Mouse</u>
Tested Model:	<u>G5G</u>
Report No.:	<u>STR14128235I</u>
Tested Date:	<u>2014-12-25 to 2015-01-04</u>
Issued Date:	<u>2015-01-04</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: 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:	ACROX / ONN
Model No.:	G5G
Adding Model(s):	ONA15HO101 ; ONA15HO107 ; ONA15HO108; ONA15HO115
Rated Voltage:	Battery:DC3V
Power Adapter Model:	/
<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 G5G, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	2408-2474MHz
Max. Field Strength:	80.67dBuV/m (3m)
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 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
/	/	/	/

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 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 ± 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

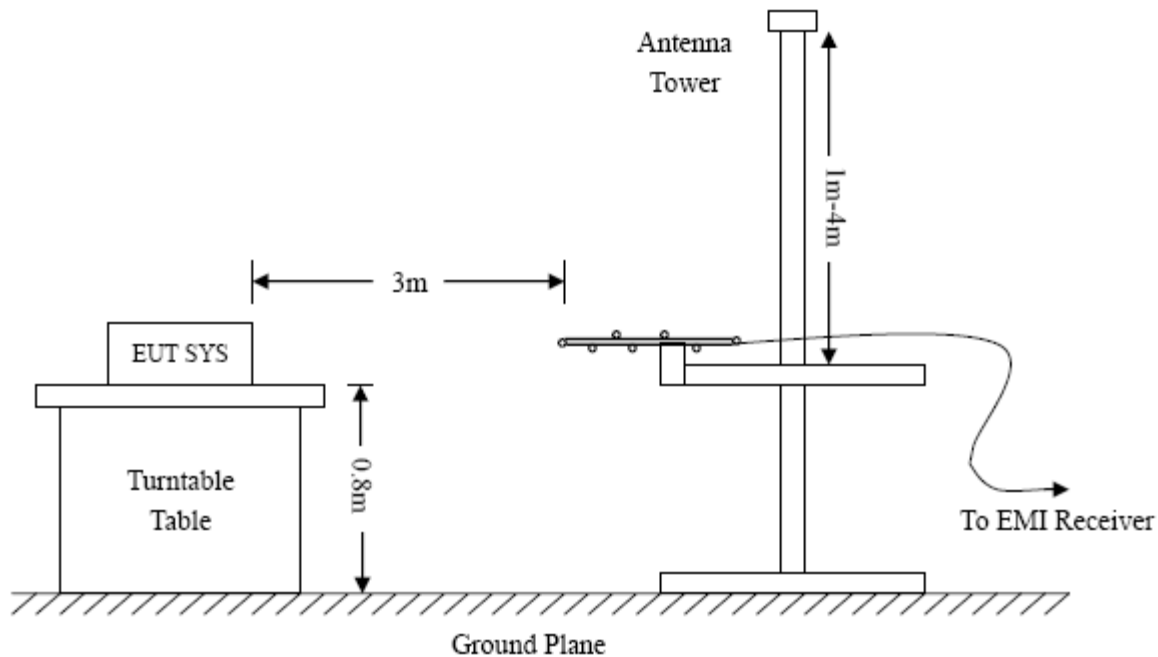
Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2014-05-28	2015-05-27
EMI Test Receiver	R&S	ESVB	825471/005	2014-05-28	2015-05-27
Pre-amplifier	Agilent	8447F	3113A06717	2014-05-28	2015-05-27
Pre-amplifier	Compliance Direction	PAP-0118	24002	2014-05-28	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
Horn Antenna	ETS	3116B	00088203	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 -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

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

4.6 Environmental Conditions

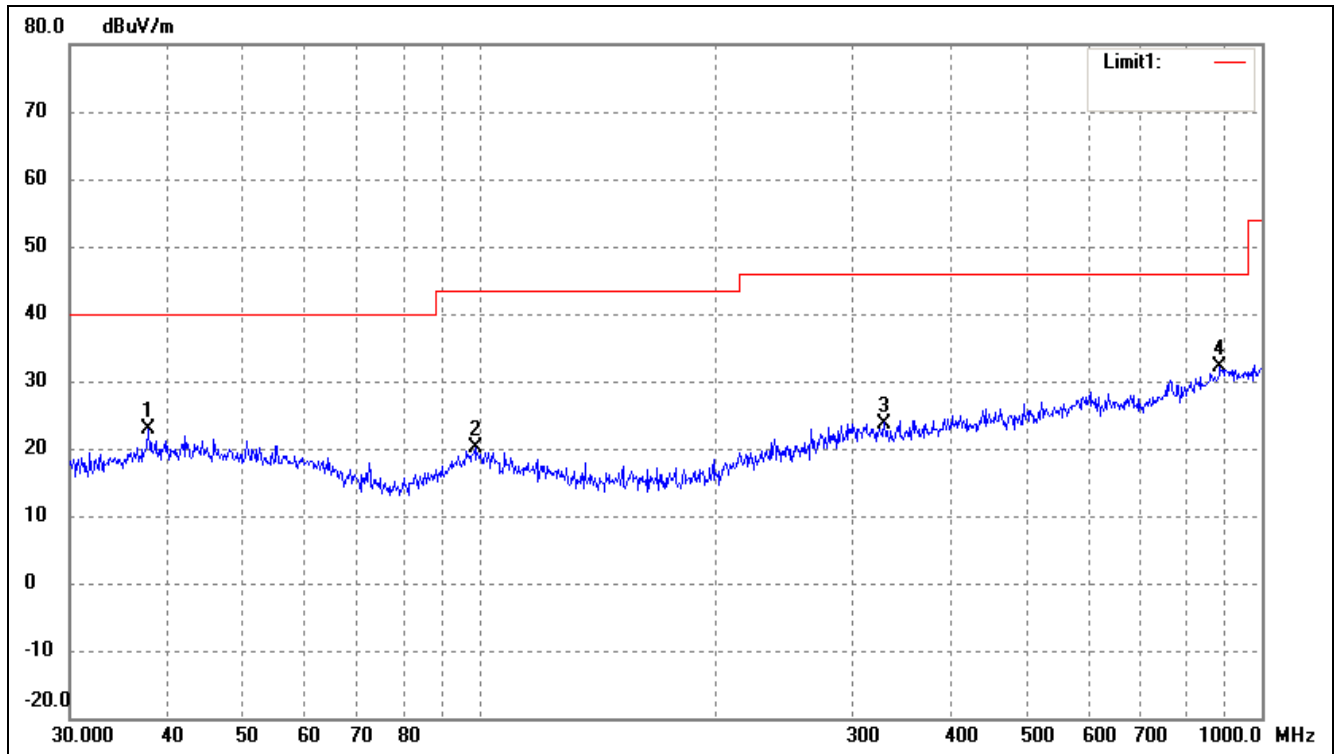
Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

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:

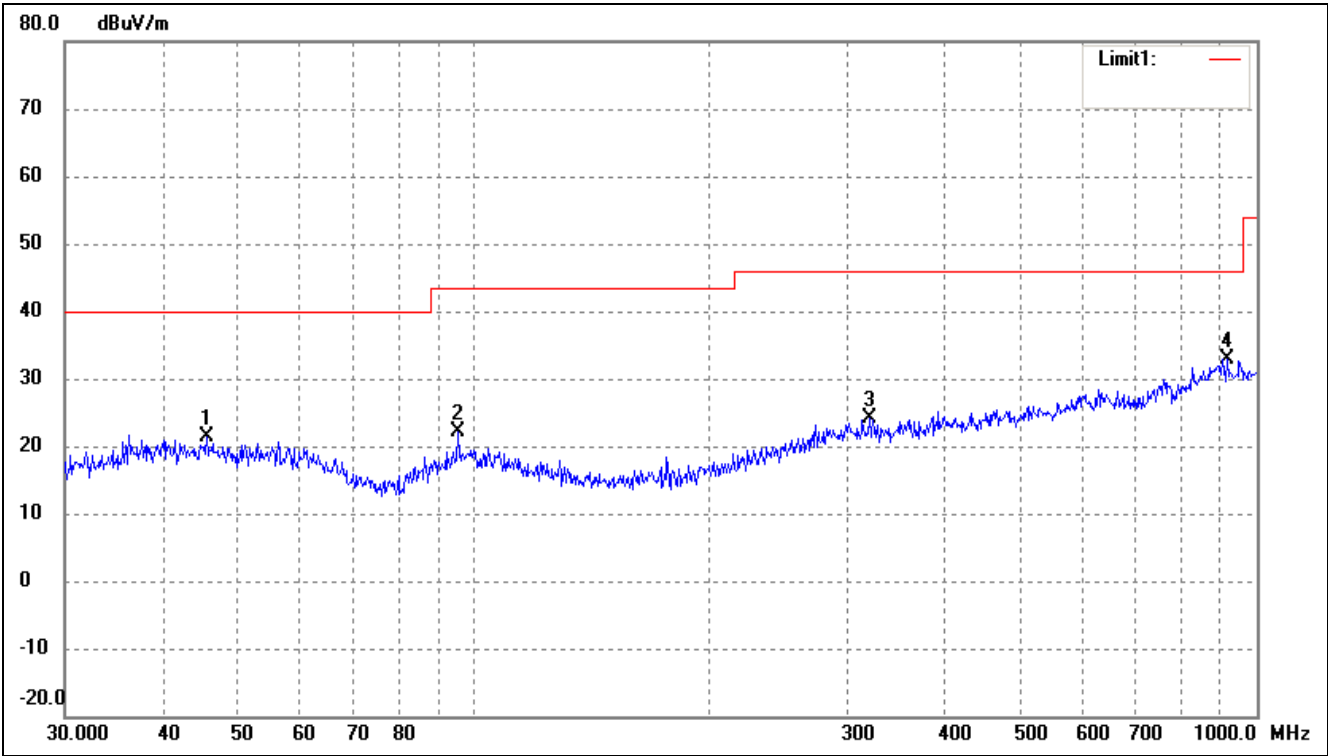
-12.54 dB at 916.0687MHz in the *Vertical* polarization, Middle Channel, 9 kHz to 25 GHz, 3Meters

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: G5G**Operating Condition: Transmitting Low Channel (2408MHz)**Comment: Transmitter**Test Specification: Horizontal*

No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	37.8121	16.16	6.66	22.82	40.00	-17.18	26	100	peak
2	98.8326	14.23	5.84	20.07	43.50	-23.43	53	200	peak
3	329.0390	14.72	9.03	23.75	46.00	-22.25	227	100	peak
4	884.5029	15.35	16.83	32.18	46.00	-13.82	113	200	peak

Test Specification: Vertical

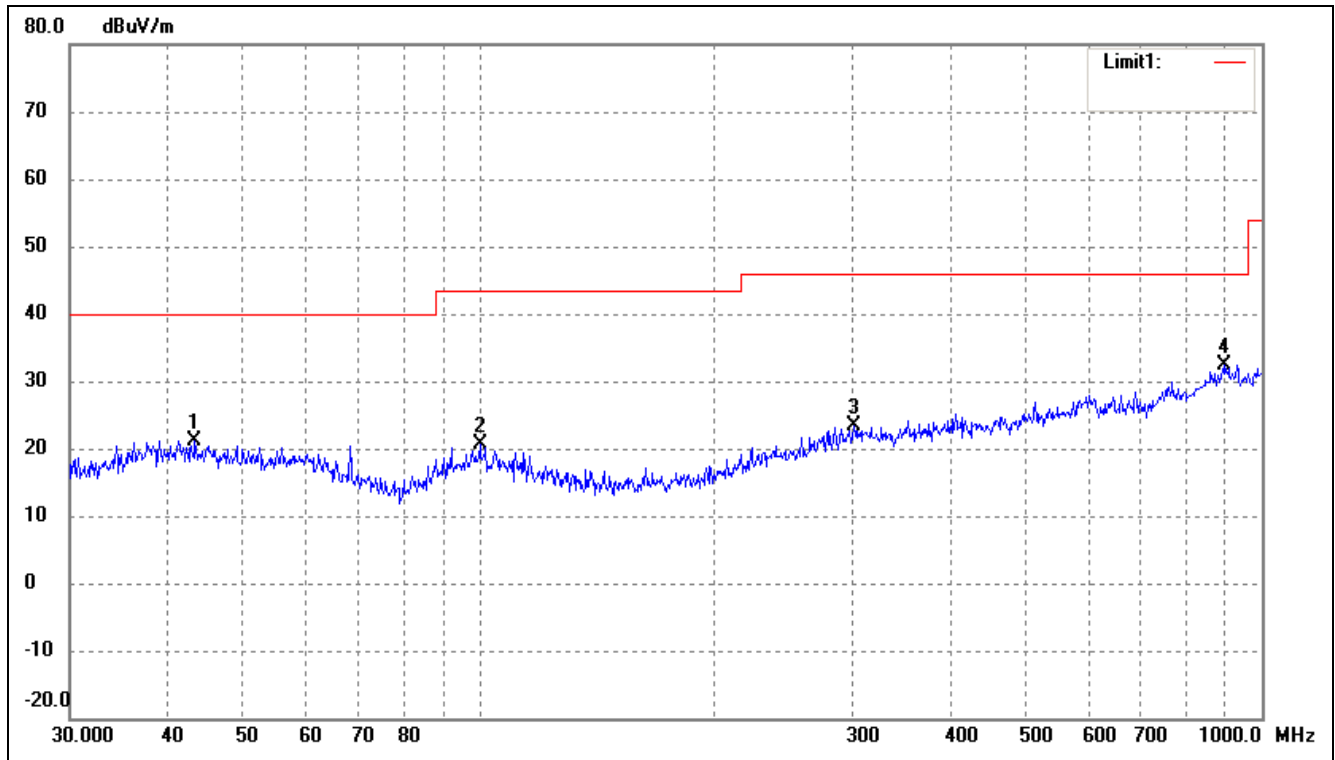


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	45.5348	13.83	7.60	21.43	40.00	-18.57	31	100	peak
2	95.4270	17.04	4.98	22.02	43.50	-21.48	128	100	peak
3	319.9370	14.85	9.29	24.14	46.00	-21.86	194	100	peak
4	916.0687	16.38	16.56	32.94	46.00	-13.06	26	100	peak

Operating Condition: Transmitting Middle Channel (2440MHz)

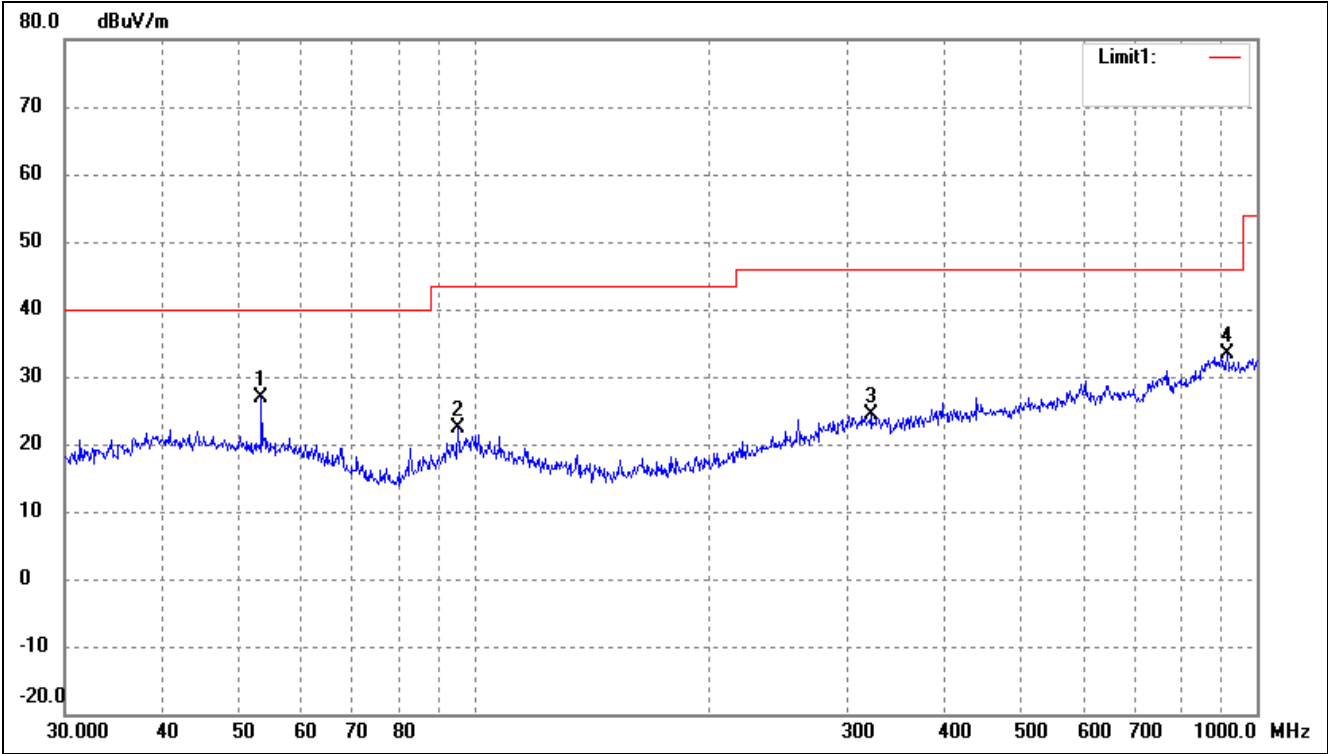
Comment: Transmitter

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	43.3534	14.18	6.91	21.09	40.00	-18.91	165	100	peak
2	100.2286	14.58	6.10	20.68	43.50	-22.82	221	100	peak
3	301.4224	14.12	9.18	23.30	46.00	-22.70	69	100	peak
4	896.9965	15.50	16.85	32.35	46.00	-13.65	129	100	peak

Test Specification: Vertical

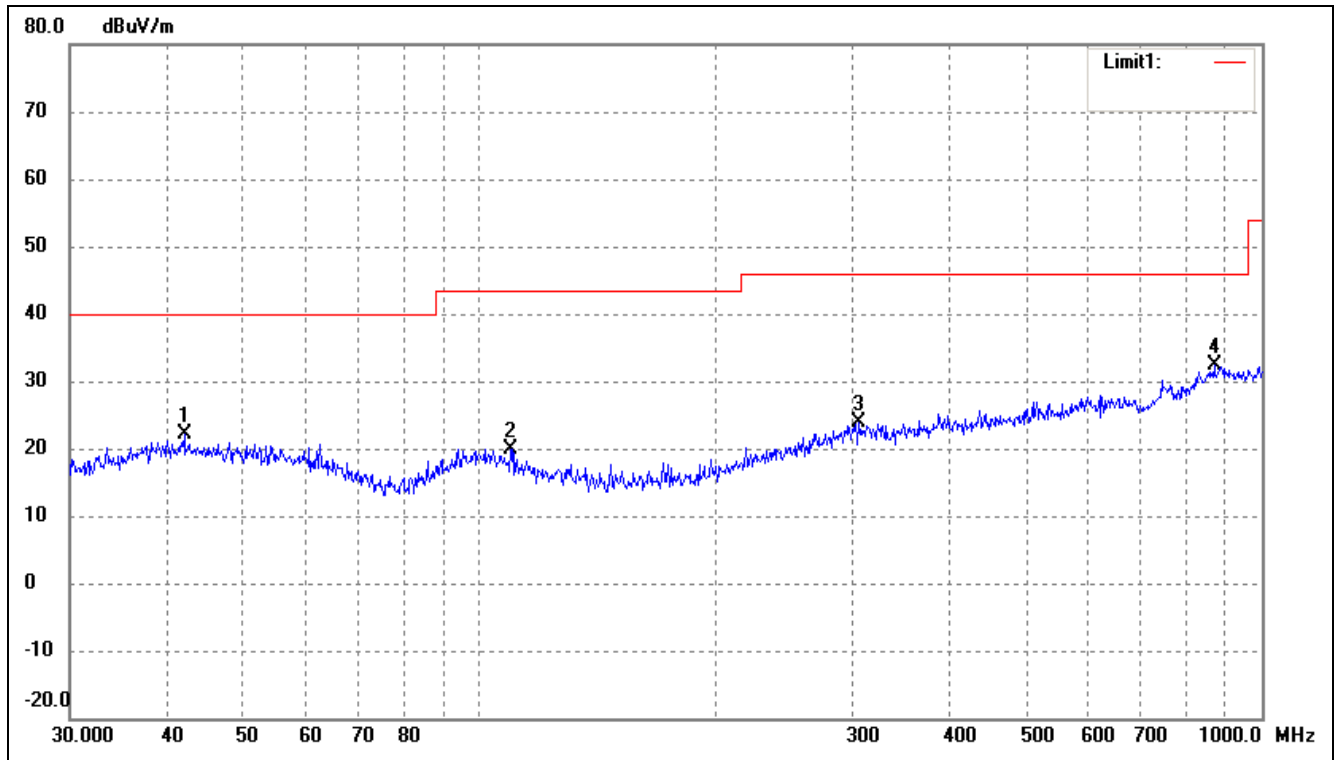


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	53.5052	20.85	5.95	26.80	40.00	-13.20	251	100	peak
2	95.4270	17.46	4.98	22.44	43.50	-21.06	132	100	peak
3	321.0608	15.09	9.26	24.35	46.00	-21.65	212	100	peak
4	916.0687	16.90	16.56	33.46	46.00	-12.54	211	100	peak

Operating Condition: Transmitting High Channel (2474MHz)

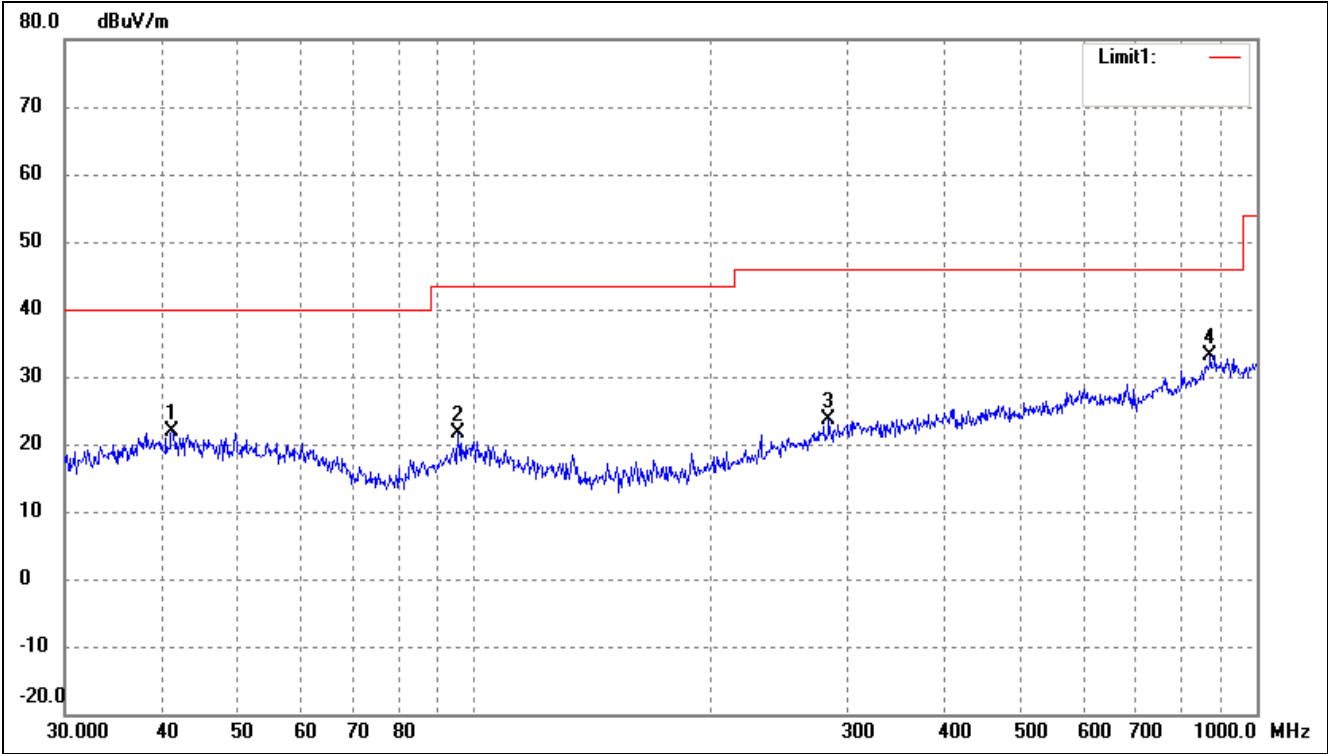
Comment: Transmitter

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	42.0066	15.17	7.05	22.22	40.00	-17.78	96	100	peak
2	109.7960	14.86	5.09	19.95	43.50	-23.55	210	100	peak
3	305.6800	14.75	9.21	23.96	46.00	-22.04	125	100	peak
4	869.1302	15.89	16.54	32.43	46.00	-13.57	65	100	peak

Test Specification: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	41.1320	12.92	8.91	21.83	40.00	-18.17	231	100	peak
2	95.4270	16.65	4.98	21.63	43.50	-21.87	15	100	peak
3	283.9792	15.01	8.55	23.56	46.00	-22.44	291	100	peak
4	872.1832	16.60	16.61	33.21	46.00	-12.79	23	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	84.02	-3.49	80.53	114.00	-33.47	H	PK
2408	75.07	-3.49	71.58	94.00	-22.42	H	AV
4816	60.84	0.57	61.41	74.00	-12.59	H	PK
4816	46.77	0.57	47.34	54.00	-6.66	H	AV
7224	40.84	7.18	48.02	74.00	-25.98	H	PK
7224	28.80	7.18	35.98	54.00	-18.02	H	AV
2408	83.22	-3.49	79.73	114.00	-34.27	V	PK
2408	78.24	-3.49	74.75	94.00	-19.25	V	AV
4816	48.39	0.57	48.96	74.00	-25.04	V	PK
4816	35.12	0.57	35.69	54.00	-18.31	V	AV
7224	40.12	5.89	46.01	74.00	-27.99	V	PK
7224	28.10	6.15	34.25	54.00	-19.75	V	AV
Middle Channel-2440MHz							
2440	84.03	-3.43	80.60	114.00	-33.40	H	PK
2440	73.22	-3.43	69.79	94.00	-24.21	H	AV
4880	57.47	0.66	58.13	74.00	-15.87	H	PK
4880	42.89	0.66	43.55	54.00	-10.45	H	AV
7320	41.08	3.11	44.19	74.00	-29.81	H	PK
7320	28.93	3.33	32.26	54.00	-21.74	H	AV
2440	82.48	-3.43	79.05	114.00	-34.95	V	PK
2440	75.13	-3.43	71.70	94.00	-22.30	V	AV
4880	49.01	0.66	49.67	74.00	-24.33	V	PK
4880	36.08	0.66	36.74	54.00	-17.26	V	AV
7320	41.03	7.18	48.21	74.00	-25.79	V	PK
7320	28.83	7.18	36.01	54.00	-17.99	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	84.00	-3.33	80.67	114.00	-33.33	H	PK
2474	75.10	-3.33	71.77	94.00	-22.23	H	AV
4948	53.18	0.75	53.93	74.00	-20.07	H	PK
4948	39.56	0.75	40.31	54.00	-13.69	H	AV
7422	40.49	7.11	47.60	74.00	-26.40	H	PK
7422	28.70	7.18	35.88	54.00	-18.12	H	AV
2474	82.30	-3.33	78.97	114.00	-35.03	V	PK
2474	76.15	-3.33	72.82	94.00	-21.18	V	AV
4948	46.52	0.75	47.27	74.00	-26.73	V	PK
4948	33.70	0.75	34.45	54.00	-19.55	V	AV
7422	41.30	7.23	48.53	74.00	-25.47	V	PK
7422	28.76	7.18	35.94	54.00	-18.06	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 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

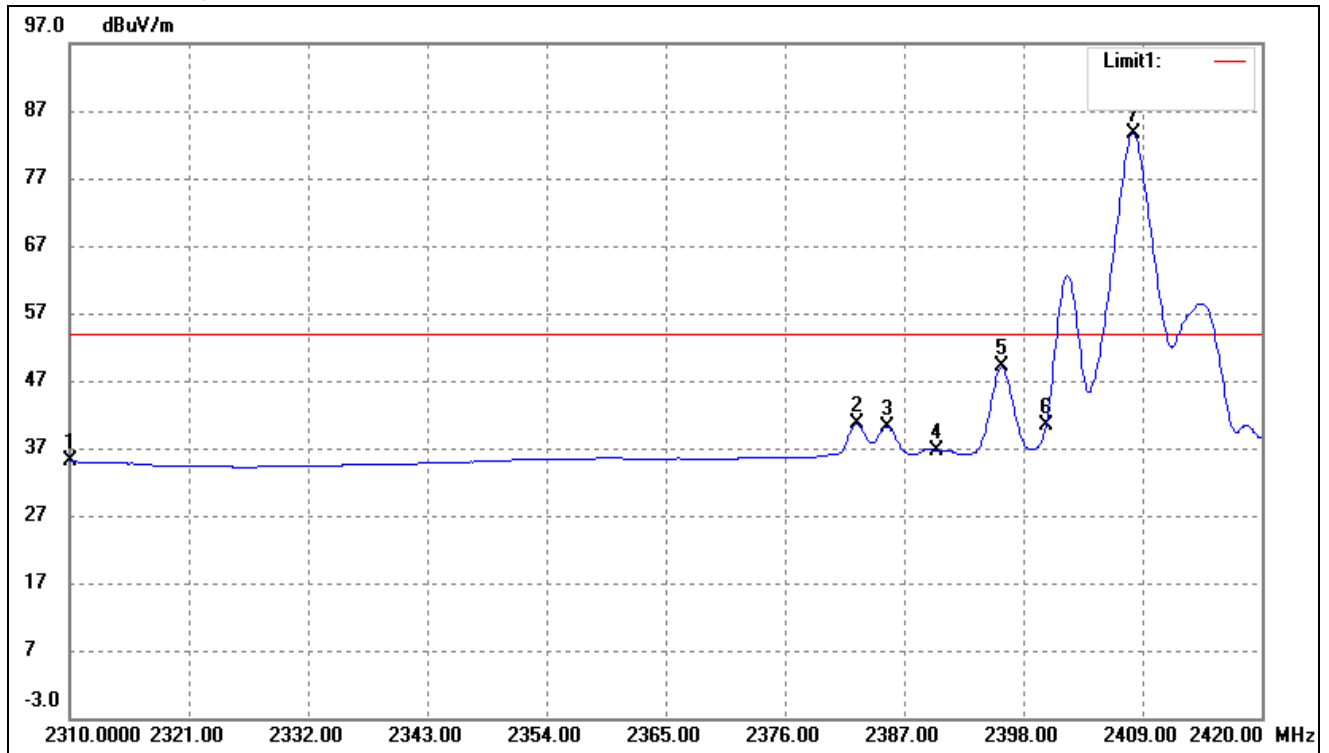
Test mode	Frequency	Limit	Result
	MHz	dBuV / dBc	
Lowest	2310.00	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
	2400.00	<54 dBuV	Pass
Highest	2483.50	<54 dBuV	Pass
	2500.00	<54 dBuV	Pass

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.

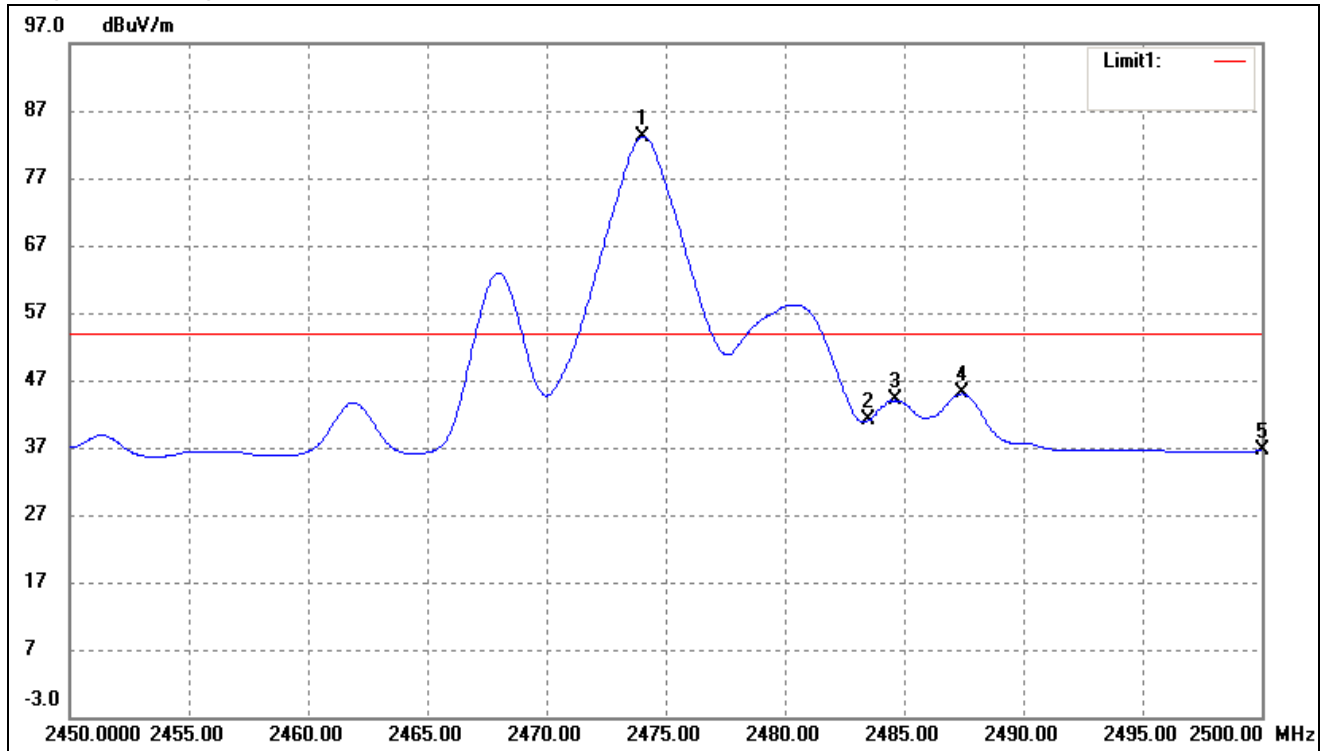
Horizontal (Worst case)

Lowest Bandedge



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	18.76	16.34	35.10	54.00	-18.90	Ave Detector
	2310.000	30.62	16.34	46.96	74.00	-27.04	Peak Detector
2	2382.600	23.62	16.96	40.58	54.00	-13.42	Ave Detector
	2382.600	34.67	16.96	51.63	74.00	-22.37	Peak Detector
3	2385.460	23.24	16.98	40.22	54.00	-13.78	Ave Detector
	2385.460	33.60	16.98	50.58	74.00	-23.42	Peak Detector
4	2390.000	19.53	17.03	36.56	54.00	-17.44	Ave Detector
	2390.000	32.73	17.03	49.76	74.00	-24.24	Peak Detector
5	2396.020	31.93	17.08	49.01	54.00	-4.99	Ave Detector
	2396.020	39.74	17.08	56.82	74.00	-17.18	Peak Detector
6	2400.000	23.17	17.11	40.28	54.00	-13.72	Ave Detector
	2400.000	34.63	17.11	51.74	74.00	-22.26	Peak Detector
7	2408.120	66.50	17.16	83.66	/	/	Ave Detector

Highest Bandedge



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2474.050	65.52	17.67	83.19	/	/	Ave Detector
	2473.500	67.66	17.66	85.32	/	/	Peak Detector
2	2483.500	Delta=39.17dBc		41.02	54.00	-12.98	Ave Detector
	2483.500			46.15	74.00	-27.85	Peak Detector
3	2484.650	26.31	17.74	44.05	54.00	-9.95	Ave Detector
	2484.650	37.95	17.74	55.69	74.00	-18.31	Peak Detector
4	2487.450	27.28	17.75	45.03	54.00	-8.97	Ave Detector
	2487.450	37.90	17.75	55.65	74.00	-18.35	Peak Detector
5	2500.000	18.74	17.86	36.60	54.00	-17.40	Ave Detector
	2500.000	29.83	17.86	47.69	74.00	-26.31	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

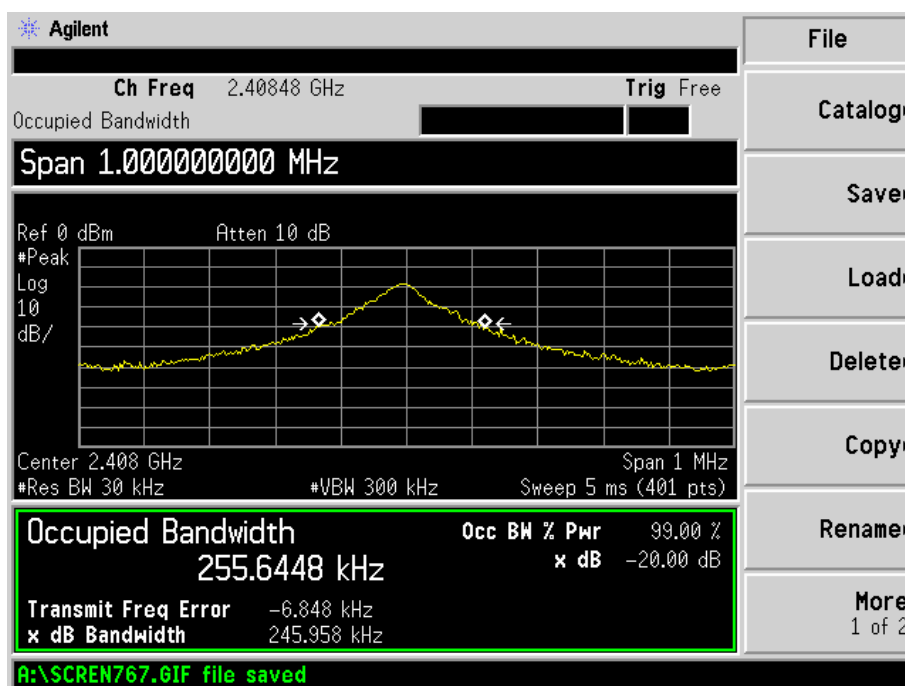
Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.5 Summary of Test Results/Plots

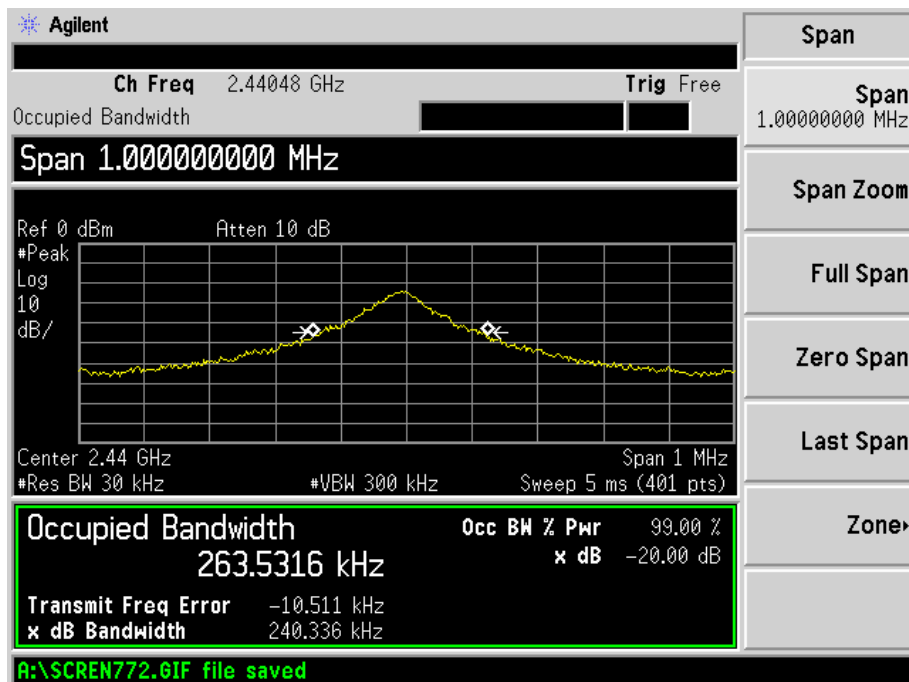
Channel	Frequency MHz	20dB Bandwidth kHz	99% Bandwidth kHz
Low Channel	2408	245.958	255.6448
Middle Channel	2440	240.336	263.5316
High Channel	2474	206.856	230.5225

Please refer to the following test plots

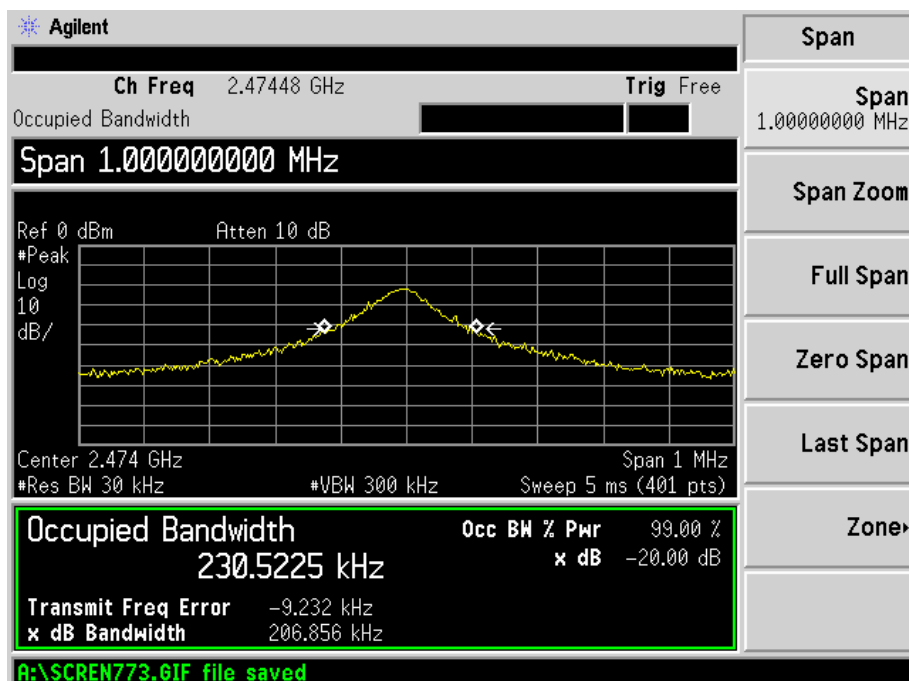
Low Channel:



Middle Channel:



High Channel:



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