

TEST REPORT

Reference No..... : WTX21X02013015W-1
FCC ID : Z2G-PERIPRO-706M
Applicant : Perixx Computer GmbH
Address : Heerdter Landstrasse 189e 40549 Düsseldorf, Germany
Product Name : Wireless Trackball Mouse
Test Model. : PERIPRO-706
Standards : FCC Part 15.249
Date of Receipt sample : Feb. 24, 2021
Date of Test..... : Feb. 24, 2021 to Jun. 10, 2021
Date of Issue : Jun. 10, 2021
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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TABLE OF CONTENTS

1. GENERAL INFORMATION	4
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	4
1.2 TEST STANDARDS.....	5
1.3 TEST METHODOLOGY.....	5
1.4 TEST FACILITY.....	5
1.5 EUT SETUP AND TEST MODE.....	6
1.6 MEASUREMENT UNCERTAINTY.....	7
1.7 TEST EQUIPMENT LIST AND DETAILS.....	8
2. SUMMARY OF TEST RESULTS	11
3. ANTENNA REQUIREMENTS	12
3.1 STANDARD APPLICABLE.....	12
3.2 TEST RESULT.....	12
4. RADIATED EMISSIONS	13
4.1 STANDARD APPLICABLE.....	13
4.2 TEST PROCEDURE.....	13
4.3 CORRECTED AMPLITUDE & MARGIN CALCULATION.....	16
4.4 SUMMARY OF TEST RESULTS/PLOTS.....	16
5. OUT OF BAND EMISSIONS	20
5.1 STANDARD APPLICABLE.....	20
5.2 TEST PROCEDURE.....	20
5.3 SUMMARY OF TEST RESULTS/PLOTS.....	20
6. EMISSION BANDWIDTH	25
6.1 STANDARD APPLICABLE.....	25
6.2 TEST PROCEDURE.....	25
6.3 SUMMARY OF TEST RESULTS/PLOTS.....	25
7. CONDUCTED EMISSIONS	27
7.1 TEST PROCEDURE.....	27
7.2 BASIC TEST SETUP BLOCK DIAGRAM.....	27
7.3 TEST RECEIVER SETUP.....	27
7.4 SUMMARY OF TEST RESULTS/PLOTS.....	27
APPENDIX PHOTOGRAPHS	28

Report version

Version No.	Date of issue	Description
Rev.00	Jun. 10, 2021	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Perixx Computer GmbH
 Address of applicant: Heerdter Landstrasse 189e 40549 Düsseldorf, Germany

Manufacturer: Perixx Computer GmbH
 Address of manufacturer: Heerdter Landstrasse 189e 40549 Düsseldorf, Germany

General Description of EUT	
Product Name:	Wireless Trackball Mouse
Trade Name:	Perixx
Model No.:	PERIPRO-706
Adding Model(s):	/
Rated Voltage:	DC 3V
Battery Capacity	/
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:	2408MHz-2474MHz
Max. Field Strength:	90.59dBuV/m
Modulation:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	-5.25dBi

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.249: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

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, The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) 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. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) 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	2408MHz
TM2	Middle Channel	2440MHz
TM3	High Channel	2474MHz

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	50~55 %.
ATM Pressure:	1019 mbar

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

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

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Notebook	Lenovo	E445	EB12648265
Wireless Trackball Receiver	Perixx	PERIPRO-706	/

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	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-26GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde & Schwarz	CMW500	148650	2021-03-27	2022-03-26
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2021-03-27	2022-03-26
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2021-03-27	2022-03-26
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2021-03-27	2022-03-26
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2021-03-27	2022-03-26
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2021-03-27	2022-03-26
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2021-03-27	2022-03-26
SEMT-1082	Power Divider	RF-Lambda	RFLT4W5M18G	14110400027	2021-03-27	2022-03-26
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2021-03-27	2022-03-26
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2021-03-27	2022-03-26
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2021-04-12	2022-04-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2021-04-12	2022-04-11
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-19	2023-03-18
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2021-03-19	2023-03-18
SEMT-1042	Horn Antenna	ETS	3117	00086197	2021-03-19	2023-03-18
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2021-04-27	2023-04-26
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2021-04-27	2022-04-26
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2021-03-27	2022-03-26
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2021-03-27	2022-03-26
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2021-03-19	2023-03-18
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	/	/
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	/	/
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	/	/
SEMT-C004	Cable	Zheng DI	2M0RFC	/	/	/
SEMT-C005	Cable	Zheng DI	1M0RFC	/	/	/
SEMT-C006	Cable	Zheng DI	1M0RFC	/	/	/

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde & Schwarz	CMW500	148650	2020-04-28	2021-04-27
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2020-04-28	2021-04-27
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2020-04-28	2021-04-27
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2020-04-28	2021-04-27
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2020-04-28	2021-04-27
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2020-04-28	2021-04-27
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2020-04-28	2021-04-27
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SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2020-04-28	2021-04-27
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SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2019-05-05	2021-05-04
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2019-05-05	2021-05-04
SEMT-1042	Horn Antenna	ETS	3117	00086197	2019-05-05	2021-05-04
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2019-05-05	2021-05-04
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SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2020-04-28	2021-04-27
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2020-04-28	2021-04-27

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

*Remark: indicates software version used in the compliance certification testing

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.

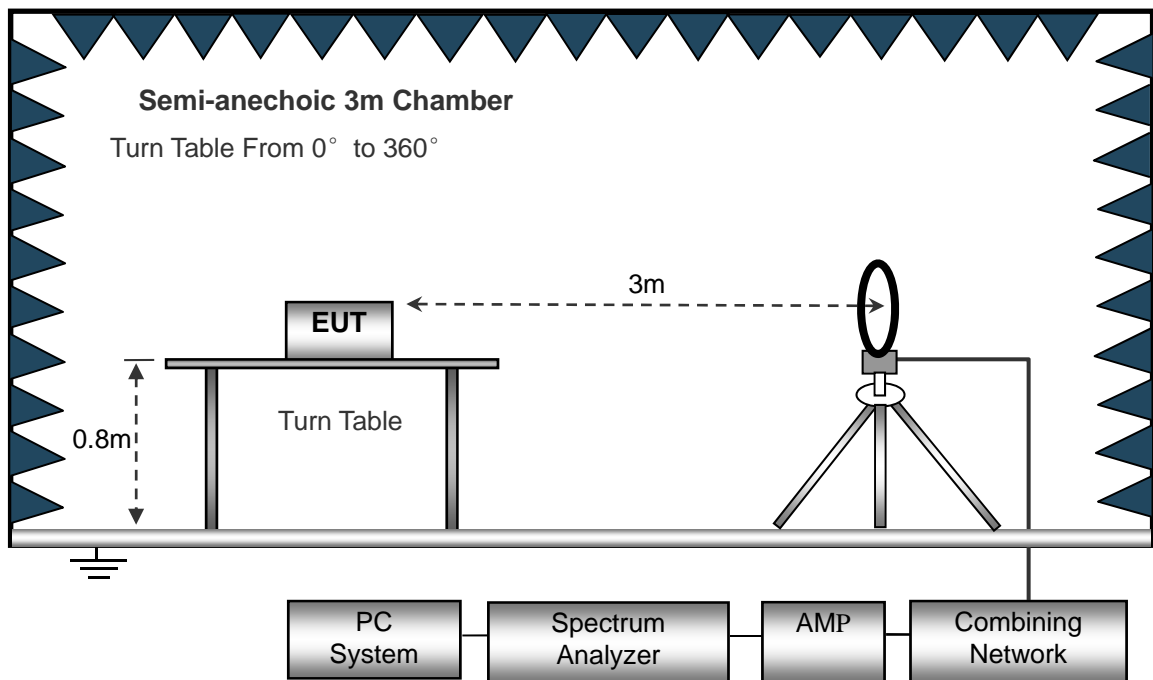
4.2 Test Procedure

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.

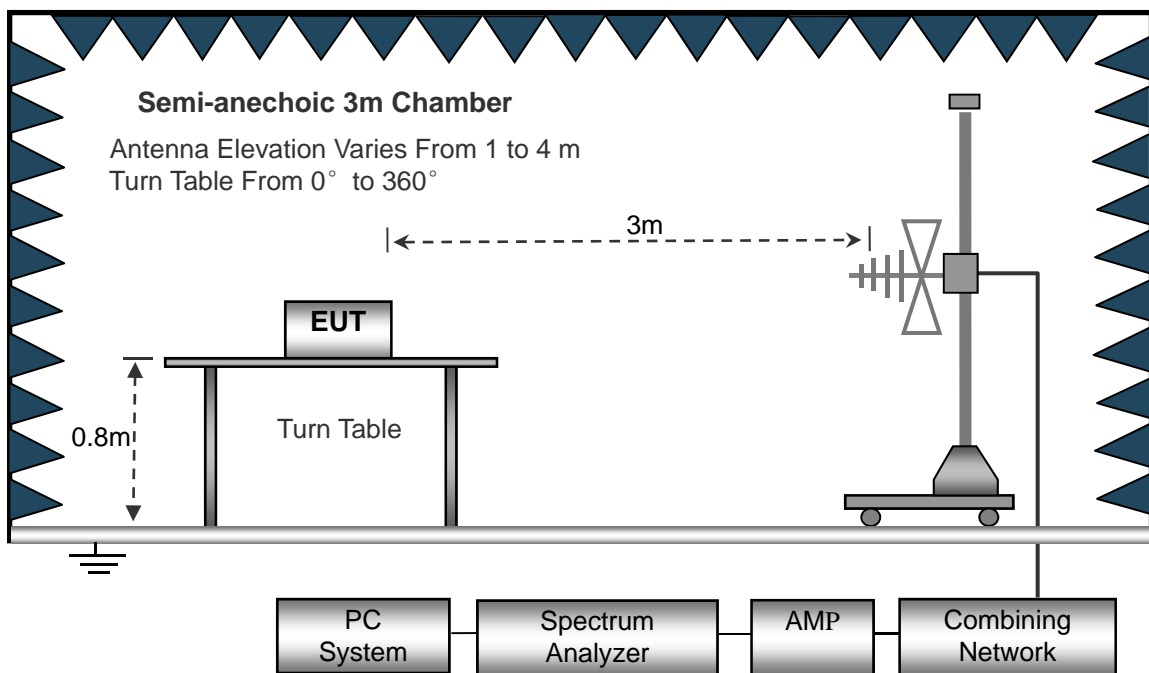
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

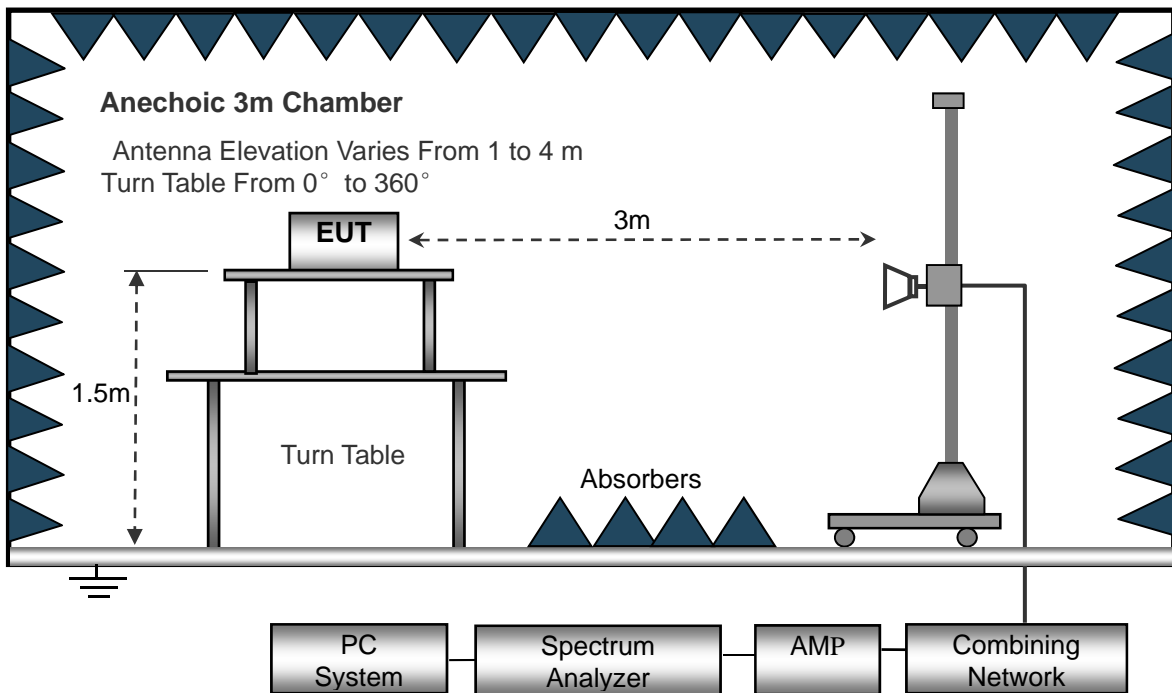
The test setup for emission measurement below 30MHz..



The test setup for emission measurement from 30 MHz to 1 GHz..



The test setup for emission measurement above 1 GHz..



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:

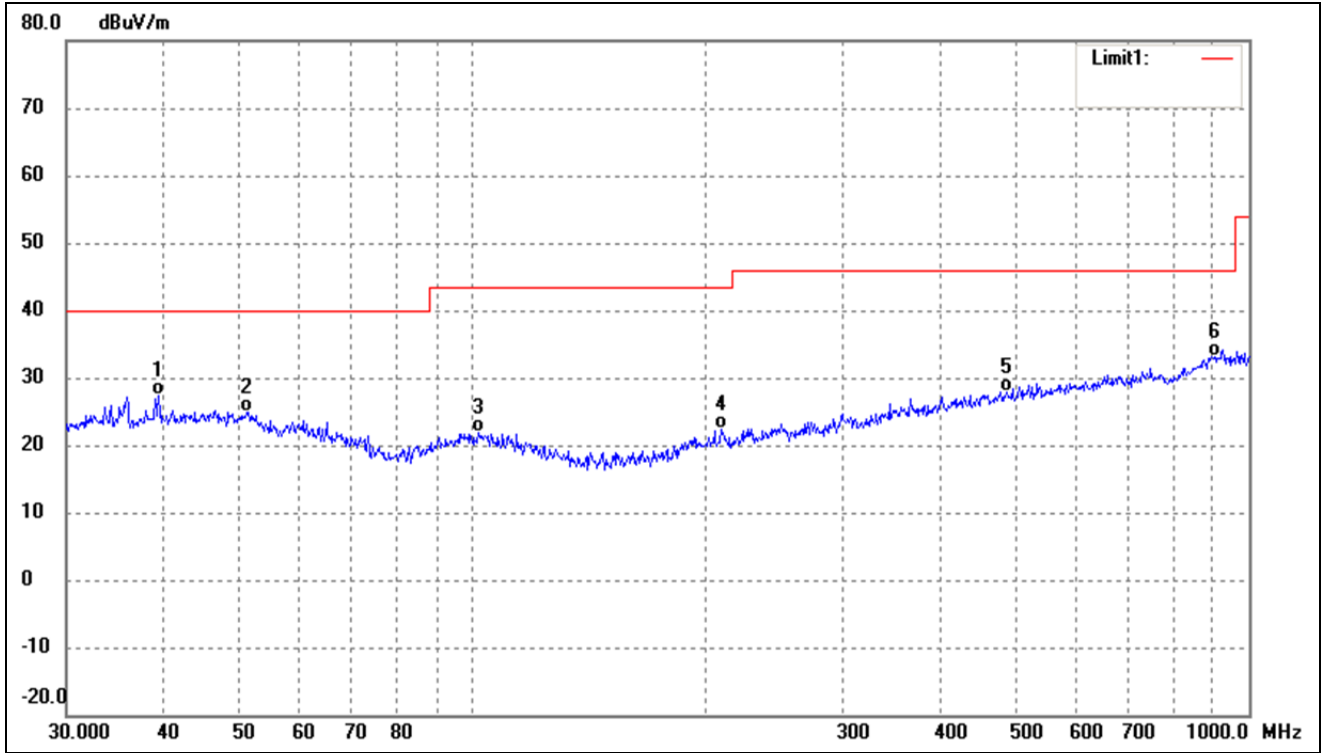
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15C Limit}$$

4.4 Summary of Test Results/Plots

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

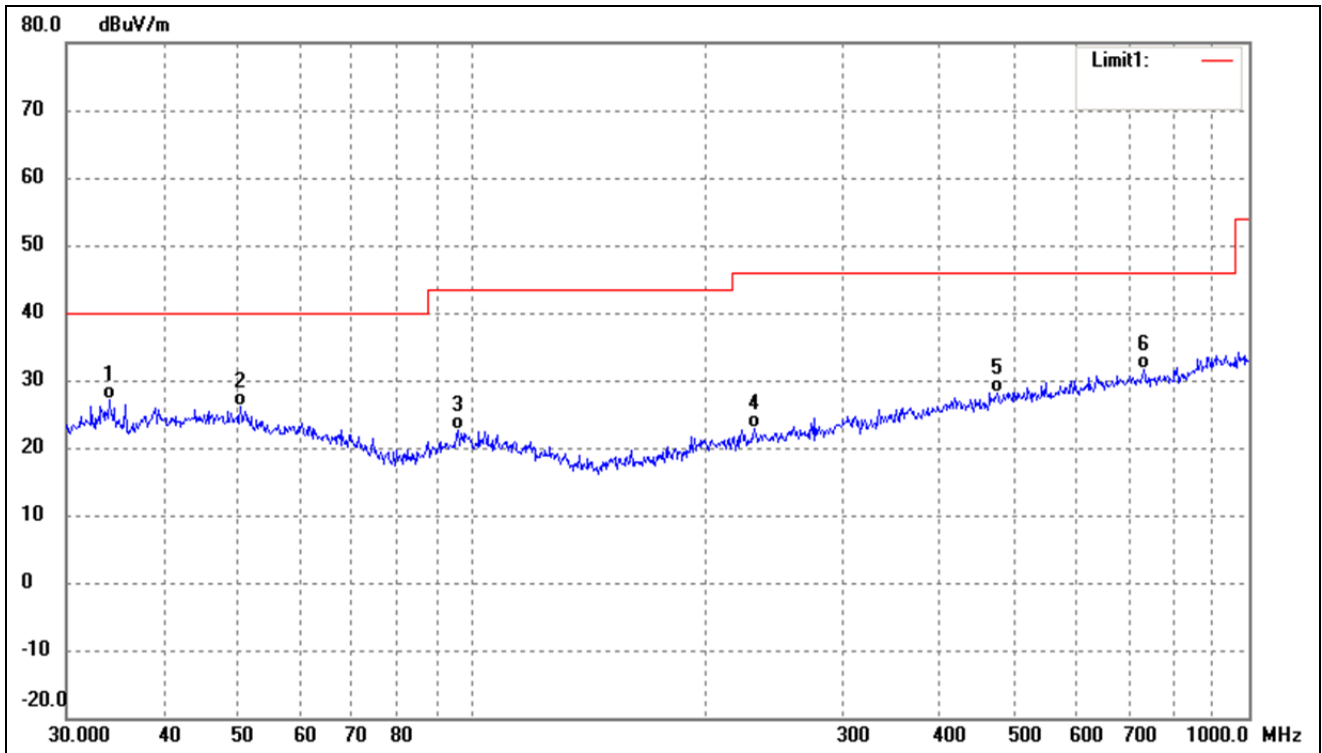
➤ Spurious Emissions Below 1GHz

Test Channel	Low(worst case)	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	39.4371	39.49	-12.19	27.30	40.00	-12.70	-	-	QP
2	51.3004	36.77	-11.90	24.87	40.00	-15.13	-	-	QP
3	101.6443	35.21	-13.32	21.89	43.50	-21.61	-	-	QP
4	209.3129	34.77	-12.31	22.46	43.50	-21.04	-	-	QP
5	487.3150	32.33	-4.44	27.89	46.00	-18.11	-	-	QP
6	903.3093	31.53	1.60	33.13	46.00	-12.87	-	-	QP

Test Channel	Low(worst case)	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	34.0365	41.10	-13.93	27.17	40.00	-12.83	-	-	QP
2	50.2324	37.71	-11.60	26.11	40.00	-13.89	-	-	QP
3	95.7622	36.77	-14.03	22.74	43.50	-20.76	-	-	QP
4	230.9068	34.72	-11.86	22.86	46.00	-23.14	-	-	QP
5	473.8347	33.09	-4.85	28.24	46.00	-17.76	-	-	QP
6	731.9203	32.64	-1.07	31.57	46.00	-14.43	-	-	QP

Remark: '-' Means' the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

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							
2408.634	100.06	-9.47	90.59	114	-23.41	H	PK
2408.124	69.33	-9.47	59.86	94	-34.14	H	AV
4816.000	52.16	-4.50	47.66	74.00	-26.34	H	PK
7224.000	50.34	-2.20	48.14	74.00	-25.86	H	PK
2408.312	93.24	-9.47	83.77	114	-30.23	V	PK
2408.094	62.11	-9.47	52.64	94	-41.36	V	AV
4816.000	53.31	-4.50	48.81	74.00	-25.19	V	PK
7224.000	50.15	-2.20	47.95	74.00	-26.05	V	PK
Middle Channel-2440MHz							
2440.53	92.46	-9.41	83.05	114	-30.95	H	PK
2439.77	68.79	-9.41	59.38	94	-34.62	H	AV
4880.000	53.38	-4.47	48.91	74.00	-25.09	H	PK
7320.000	49.01	-2.17	46.84	74.00	-27.16	H	PK
2440.15	88.79	-9.41	79.38	114	-34.62	V	PK
2440.15	60.18	-9.41	50.77	94	-43.23	V	AV
4880.000	52.48	-4.47	48.01	74.00	-25.99	V	PK
7320.000	48.79	-2.17	46.62	74.00	-27.38	V	PK
High Channel-2474MHz							
2473.03	96.99	-9.34	87.65	114	-26.35	H	PK
2474.08	71.69	-9.34	62.35	94	-31.65	H	AV
4948.000	50.10	-4.42	45.68	74.00	-28.32	H	PK
7422.000	49.77	-2.13	47.64	74.00	-26.36	H	PK
2473.012	89.48	-9.34	80.14	114	-33.86	V	PK
2474.13	66.49	-9.34	57.15	94	-36.85	V	AV
4948.000	51.10	-4.42	46.68	74.00	-27.32	V	PK
7422.000	50.25	-2.13	48.12	74.00	-25.88	V	PK

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.

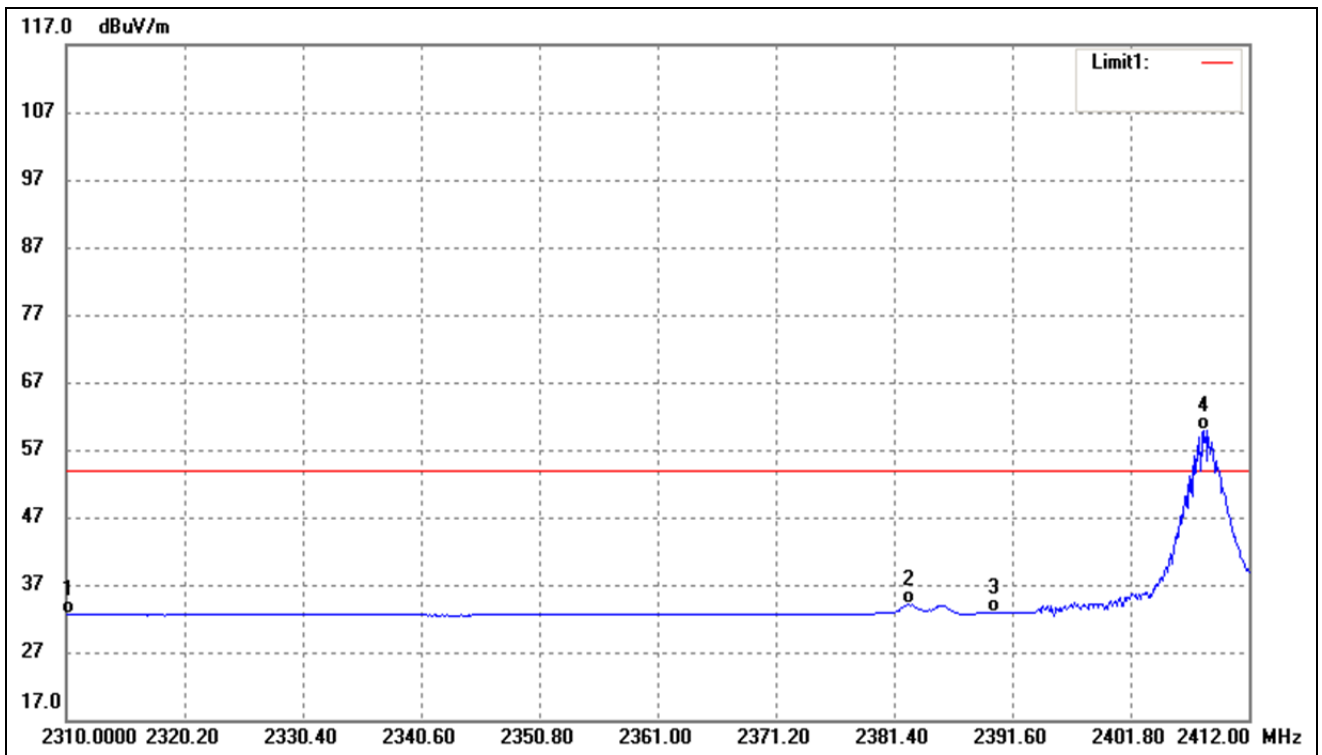
5.3 Summary of Test Results/Plots

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.

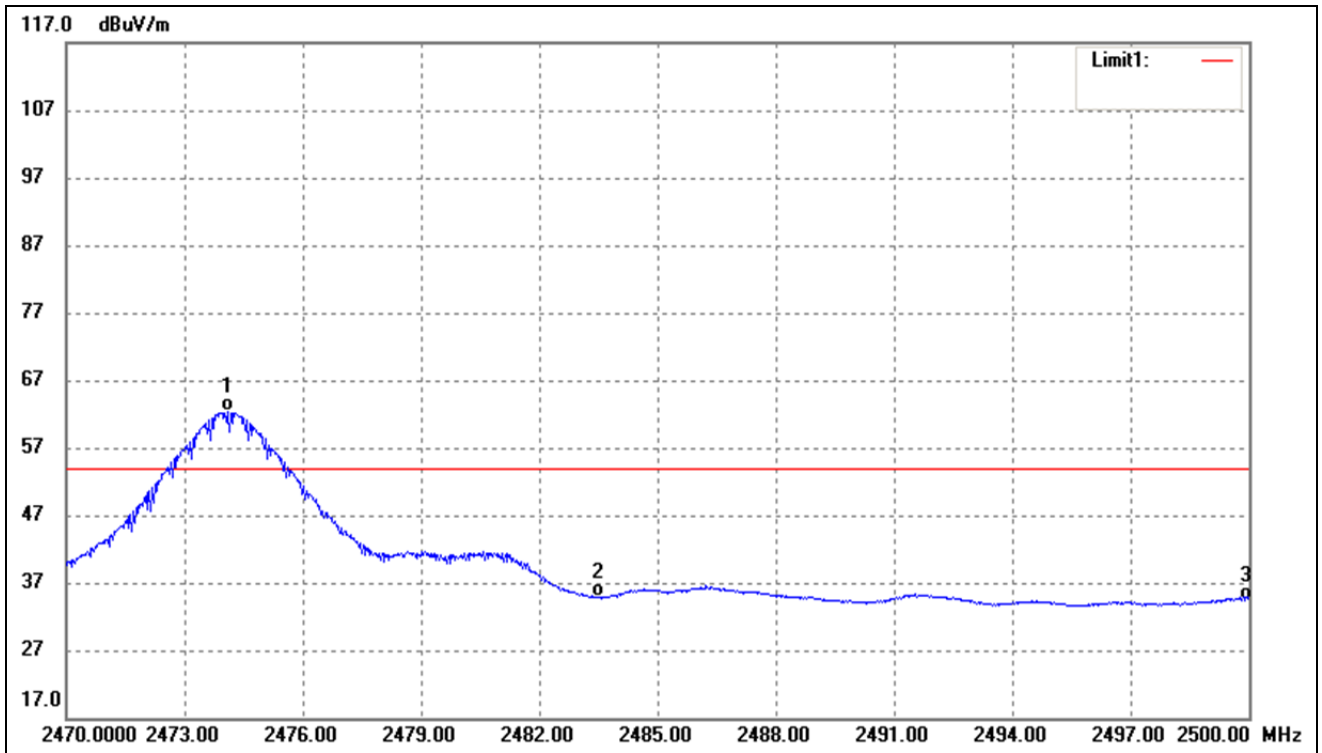
Please refer to the test plots as below.

Test Channel	Low	Polarity:	Horizontal (worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	42.24	-9.66	32.58	54.00	-21.42	Ave Detector
	2310.000	65.05	-9.66	55.39	74.00	-18.61	Peak Detector
2	2382.726	43.63	-9.52	34.11	54.00	-19.89	Ave Detector
	2387.622	71.60	-9.50	62.10	74.00	-11.90	Peak Detector
3	2390.000	42.38	-9.50	32.88	54.00	-21.12	Ave Detector
	2390.000	65.14	-9.50	55.64	74.00	-18.36	Peak Detector
4	2408.124	69.33	-9.47	59.86	/	/	Ave Detector
	2404.000	104.76	-9.48	95.28	/	/	Peak Detector

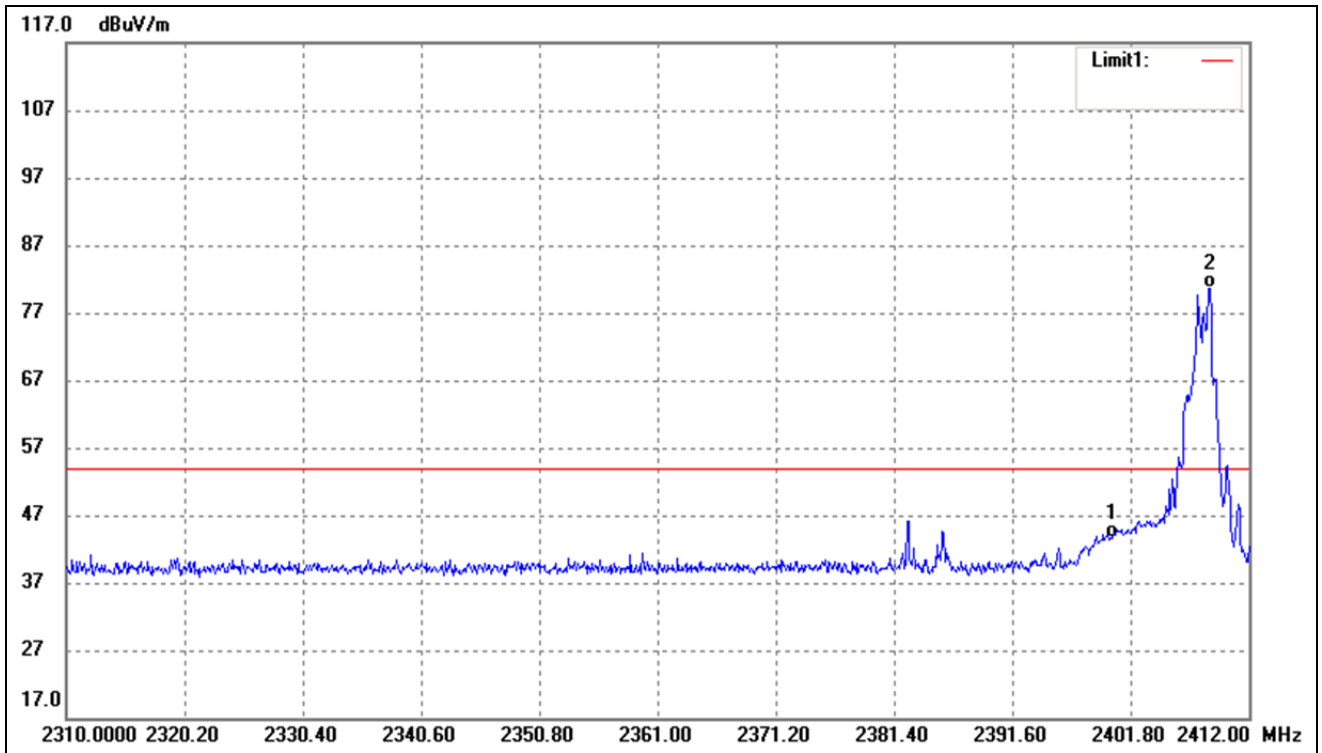
Test Channel	High	Polarity:	Horizontal (worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2474.080	71.69	-9.34	62.35	/	/	Ave Detector
	2473.030	96.99	-9.34	87.65	/	/	Peak Detector
2	2483.500	44.07	-9.31	34.76	54.00	-19.24	Ave Detector
	2483.500	64.80	-9.31	55.49	74.00	-18.51	Peak Detector
3	2500.000	43.78	-9.28	34.50	54.00	-19.50	Ave Detector
	2500.000	59.55	-9.28	50.27	74.00	-23.73	Peak Detector

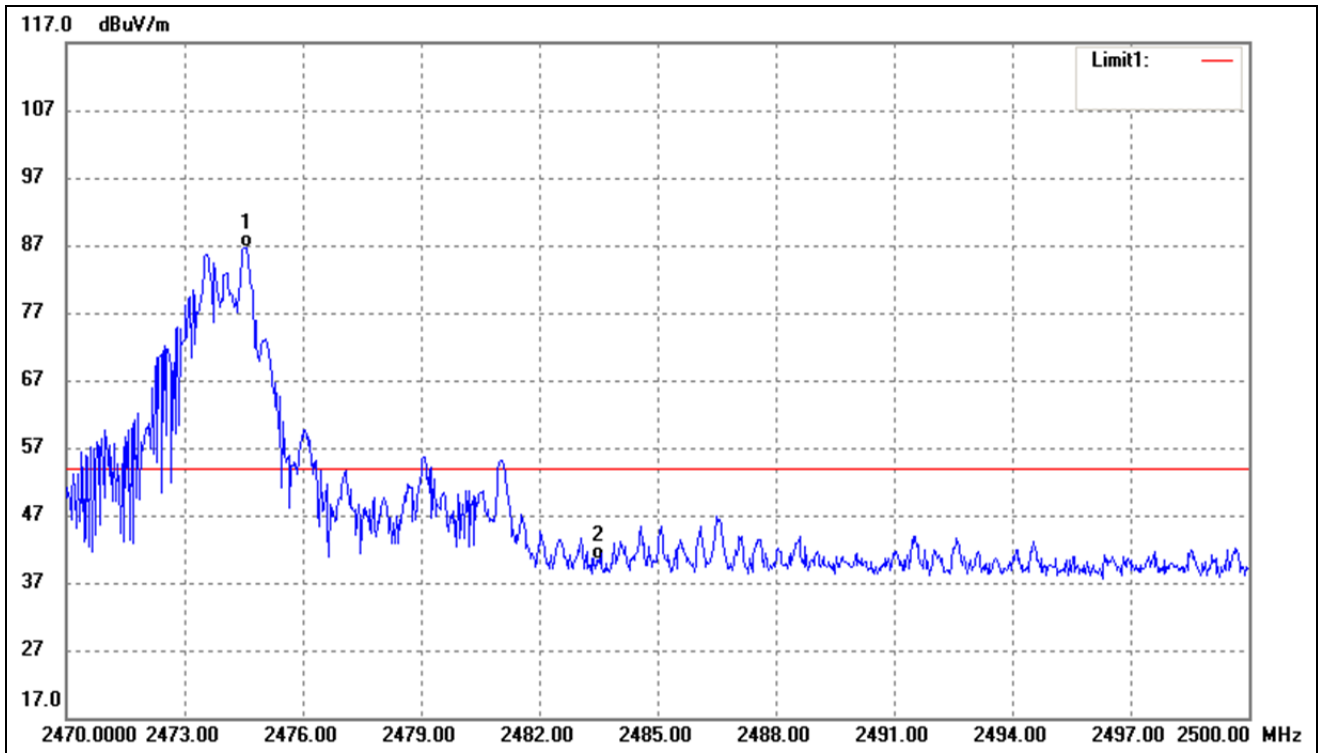
Band edge

Test Channel	Low	Polarity:	Horizontal (worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2400.000	53.19	-9.48	43.71	54.00	-10.29	Ave Detector
	2400.000	55.02	-9.48	45.54	74.00	-28.46	Peak Detector
2	2408.634	90.02	-9.47	80.55	/	/	Ave Detector
	2408.634	90.50	-9.47	81.03	/	/	Peak Detector

Test Channel	High	Polarity:	Horizontal (worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2474.560	95.93	-9.34	86.59	/	/	Ave Detector
	2474.500	96.03	-9.34	86.69	/	/	Peak Detector
2	2483.500	49.76	-9.31	40.45	54.00	-13.55	Ave Detector
	2483.500	48.68	-9.31	39.37	74.00	-34.63	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 Summary of Test Results/Plots

Test Channel	20dB Bandwidth(kHz)
Low Channel	2126
Middle Channel	2118
High Channel	2118

Please refer to the following test plots

<p>Low Channel</p>	<p>Agilent R T</p> <p>Ch Freq 2.408 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.40800000 GHz</p> <p>Ref 15 dBm Atten 25 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 2.408 GHz Span 10 MHz</p> <p>#Res BW 30 kHz #VBW 100 kHz Sweep 11.44 ms (401 pts)</p> <p>Occupied Bandwidth 2.0895 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB</p> <p>Transmit Freq Error 35.910 kHz x dB Bandwidth 2.126 MHz</p> <p>Freq/Channel</p> <p>Center Freq 2.40800000 GHz</p> <p>Start Freq 2.40300000 GHz</p> <p>Stop Freq 2.41300000 GHz</p> <p>CF Step 1.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>
<p>Middle Channel</p>	<p>Agilent R T</p> <p>Ch Freq 2.44 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.44000000 GHz</p> <p>Ref 15 dBm Atten 25 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 2.44 GHz Span 10 MHz</p> <p>#Res BW 30 kHz #VBW 100 kHz Sweep 11.44 ms (401 pts)</p> <p>Occupied Bandwidth 2.0896 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB</p> <p>Transmit Freq Error 37.676 kHz x dB Bandwidth 2.118 MHz</p> <p>Freq/Channel</p> <p>Center Freq 2.44000000 GHz</p> <p>Start Freq 2.43500000 GHz</p> <p>Stop Freq 2.44500000 GHz</p> <p>CF Step 1.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>
<p>High Channel</p>	<p>Agilent R T</p> <p>Ch Freq 2.474 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.47400000 GHz</p> <p>Ref 15 dBm Atten 25 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 2.474 GHz Span 10 MHz</p> <p>#Res BW 30 kHz #VBW 100 kHz Sweep 11.44 ms (401 pts)</p> <p>Occupied Bandwidth 2.0885 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB</p> <p>Transmit Freq Error 38.621 kHz x dB Bandwidth 2.118 MHz</p> <p>Freq/Channel</p> <p>Center Freq 2.47400000 GHz</p> <p>Start Freq 2.46900000 GHz</p> <p>Stop Freq 2.47900000 GHz</p> <p>CF Step 1.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>

7. Conducted Emissions

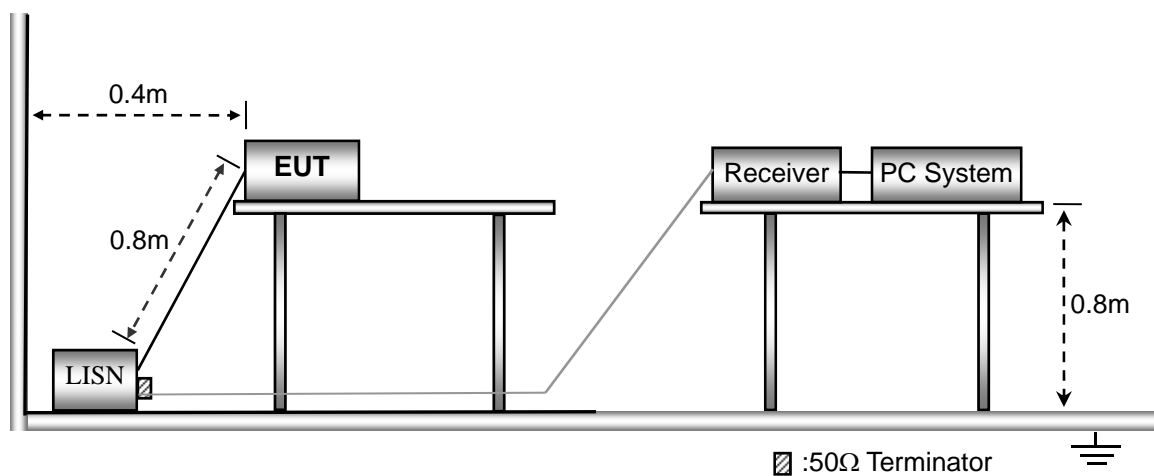
7.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 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 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

7.4 Summary of Test Results/Plots

Not Application .

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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