

FCC Part 15C Measurement and Test Report

For

DewertOkin GmbH

Weststr. 1, 32278 Kirchlingern, Germany

FCC ID: O3YHE150

FCC Rule(s): FCC Part 15.249

Product Description: HE150

Tested Model: HE150

Report No.: STR18078297I-2

Sample Receipt Date: 2018-07-26

Tested Date: 2018-07-27 to 2018-08-14

Issued Date: 2018-08-15

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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: DewertOkin GmbH
Address of applicant: Weststr. 1, 32278 Kirchlegern, Germany

Manufacturer: DewertOkin GmbH
Address of manufacturer: Weststr. 1, 32278 Kirchlegern, Germany

General Description of EUT	
Product Name:	HE150
Trade Name:	/
Model No.:	HE150
Adding Model(s):	/
Rated Voltage:	Power Port: DC24-29V
Power Adapter Model:	Model No.:W52RA76-290018 Input:AC100-240V 50/60Hz 1.5A Output:DC29V,1.8A
Note: The test data is gathered from a production sample, provided by the manufacturer.	

Technical Characteristics of EUT	
Frequency Range:	2403MHz-2480MHz
Max. Field Strength:	92.86 dBuV/m
Modulation:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Lowest Internal Frequency of EUT:	16MHz

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

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

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.

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	2440MHz
TM3	High Channel	2480MHz

Test Conditions	
Temperature:	22~25 °C
Relative humidity	50~56 %.
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
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	±0.42dB
Occupied Bandwidth	Conducted	±1.5%
Conducted Spurious Emission	Conducted	±2.17dB
Conducted Emissions	Conducted	9-150kHz ±3.74dB
		0.15-30MHz ±3.34dB
Transmitter Spurious Emissions	Radiated	30-200MHz ±4.52dB
		0.2-1GHz ±5.56dB
		1-6GHz ±3.84dB
		6-18GHz ±3.92dB

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2018-05-22	2019-05-21
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2018-05-22	2019-05-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2018-05-22	2019-05-21
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2018-05-22	2019-05-21
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2018-05-22	2019-05-21
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2020-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2020-06-07
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-08	2020-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2020-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2018-05-22	2019-05-21
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2018-05-22	2019-05-21
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2018-05-22	2019-05-21
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2018-05-22	2019-05-21
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2018-05-22	2019-05-21
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2018-05-22	2019-05-21
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2018-03-19	2021-03-18
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2018-05-22	2019-05-21
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2018-05-22	2019-05-21
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2018-05-22	2019-05-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2018-03-19	2019-03-18
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2018-03-19	2019-03-18
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2018-03-19	2019-03-18
SEMT-C004	Cable	Zheng DI	2M0RFC	/	2018-03-19	2019-03-18
SEMT-C005	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18

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 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.

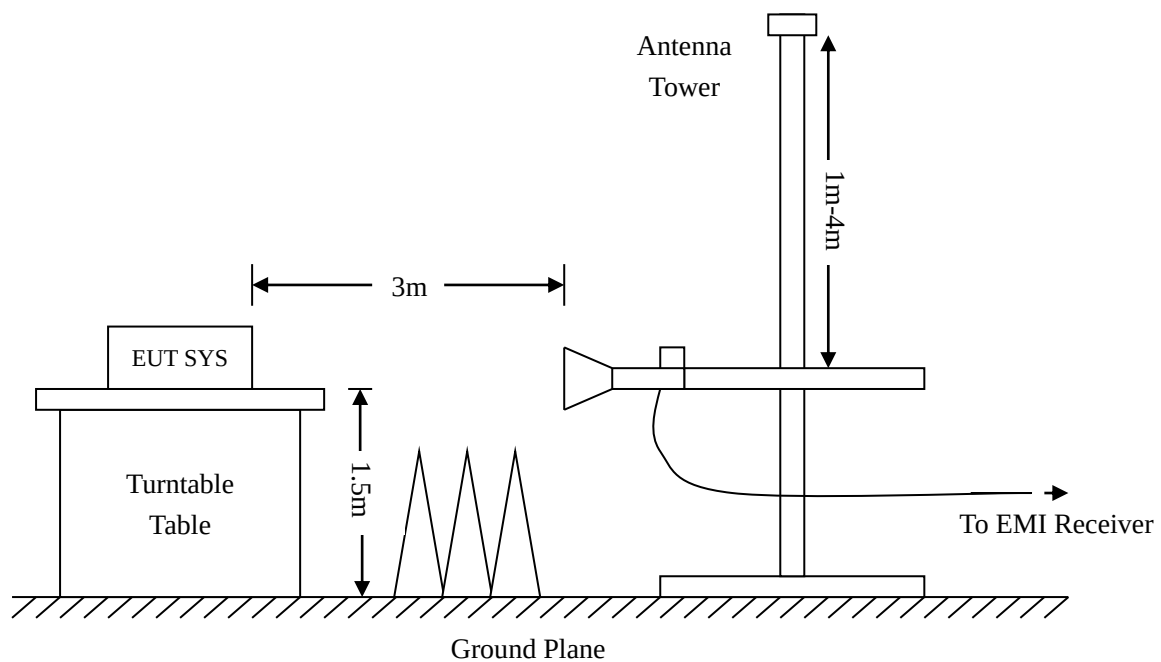
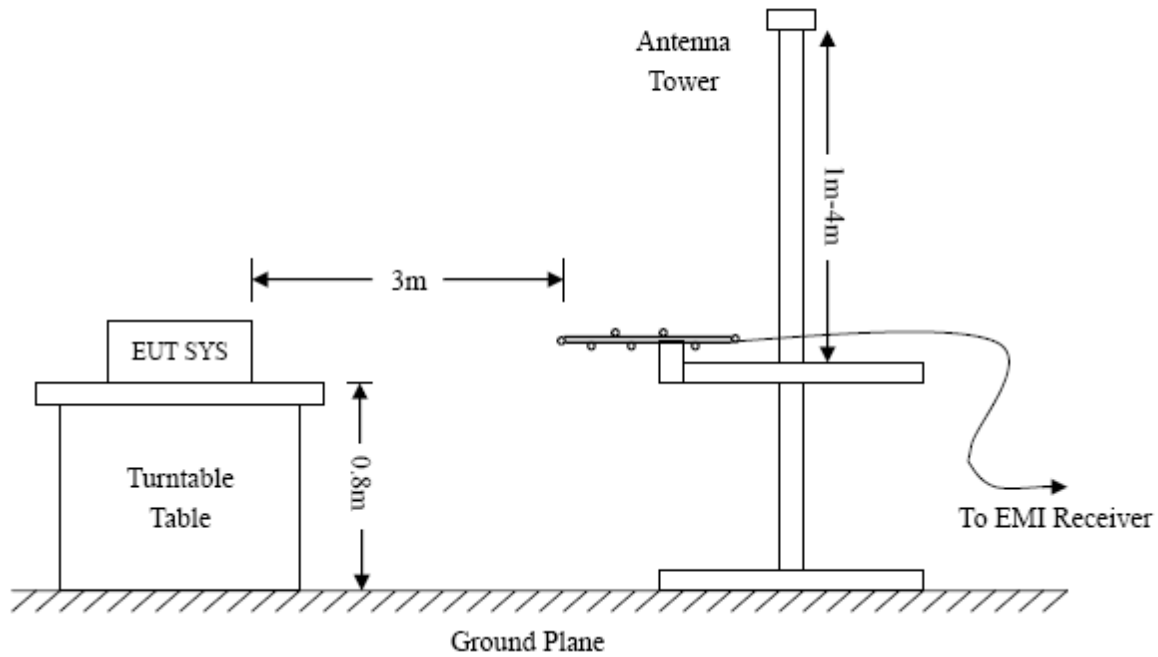
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

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:

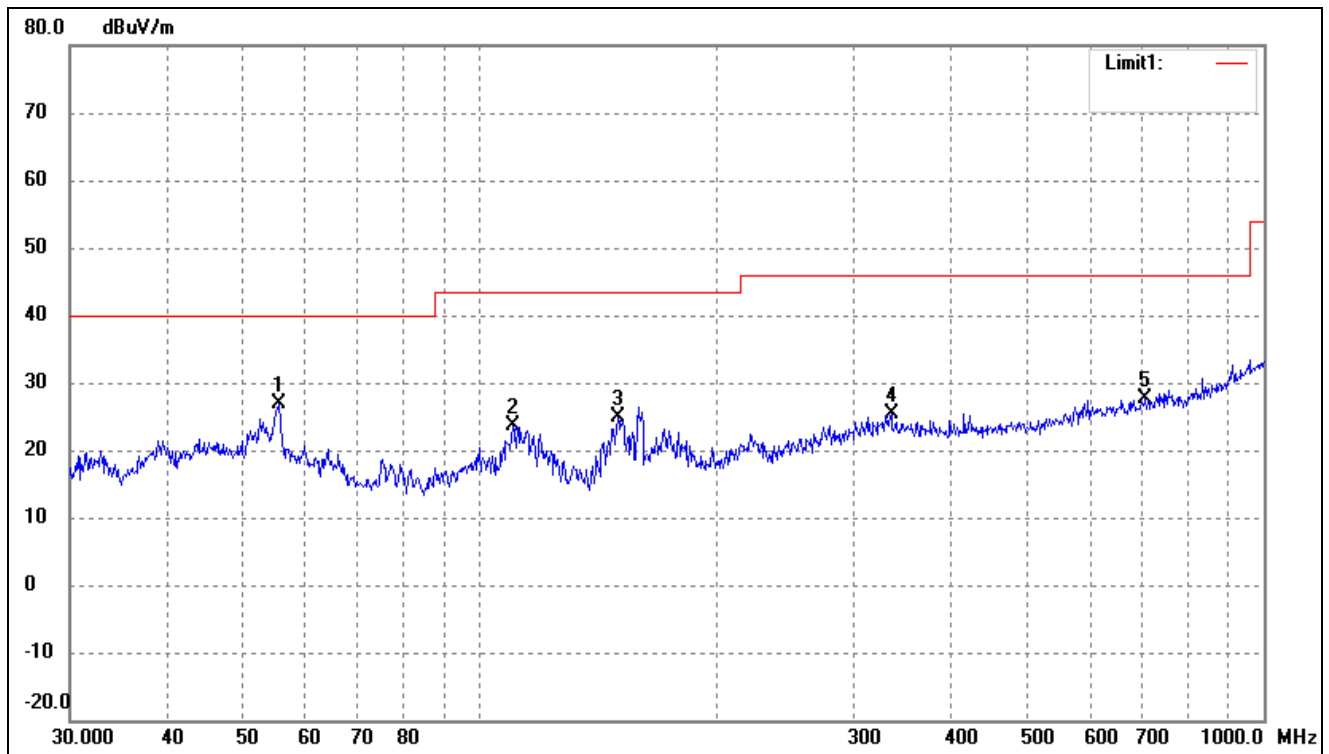
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15C Limit}$$

4.4 Summary of Test Results/Plots

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

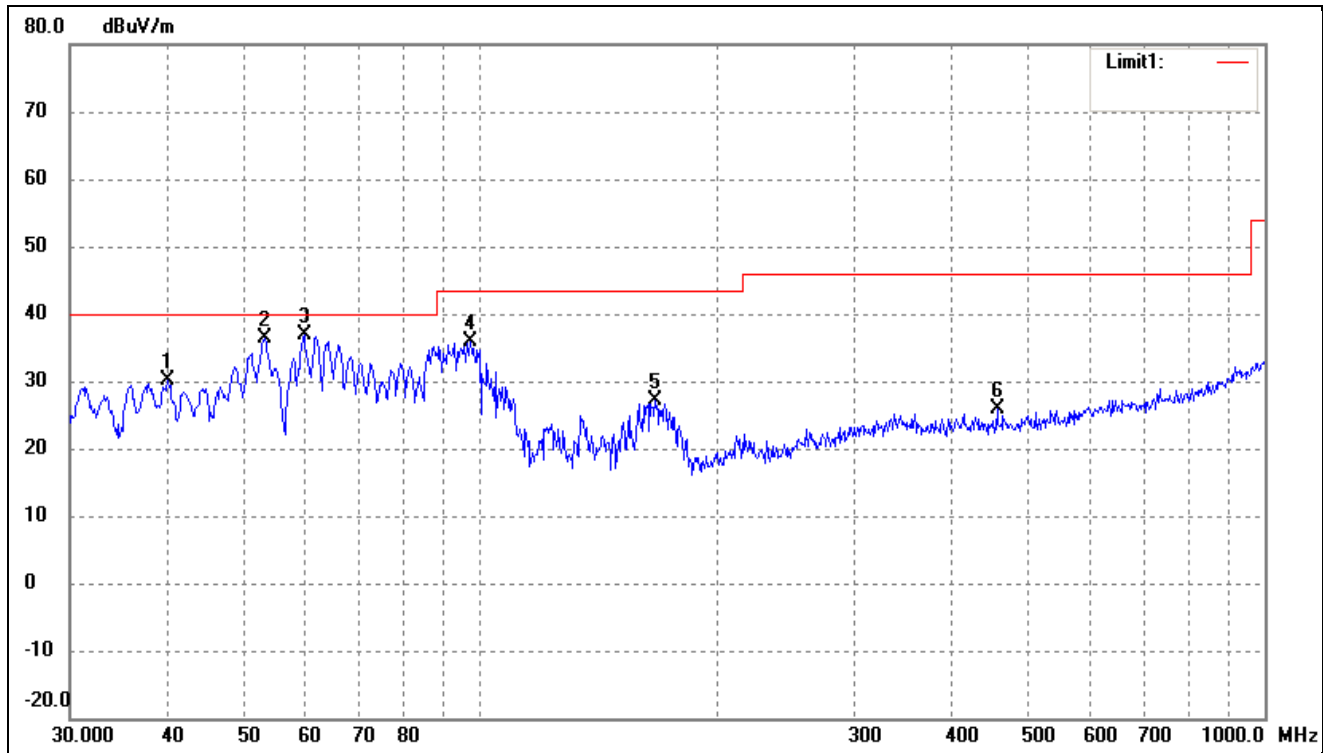
➤ Spurious Emissions Below 1GHz

Test Channel	Low	Polarity:	Horizontal
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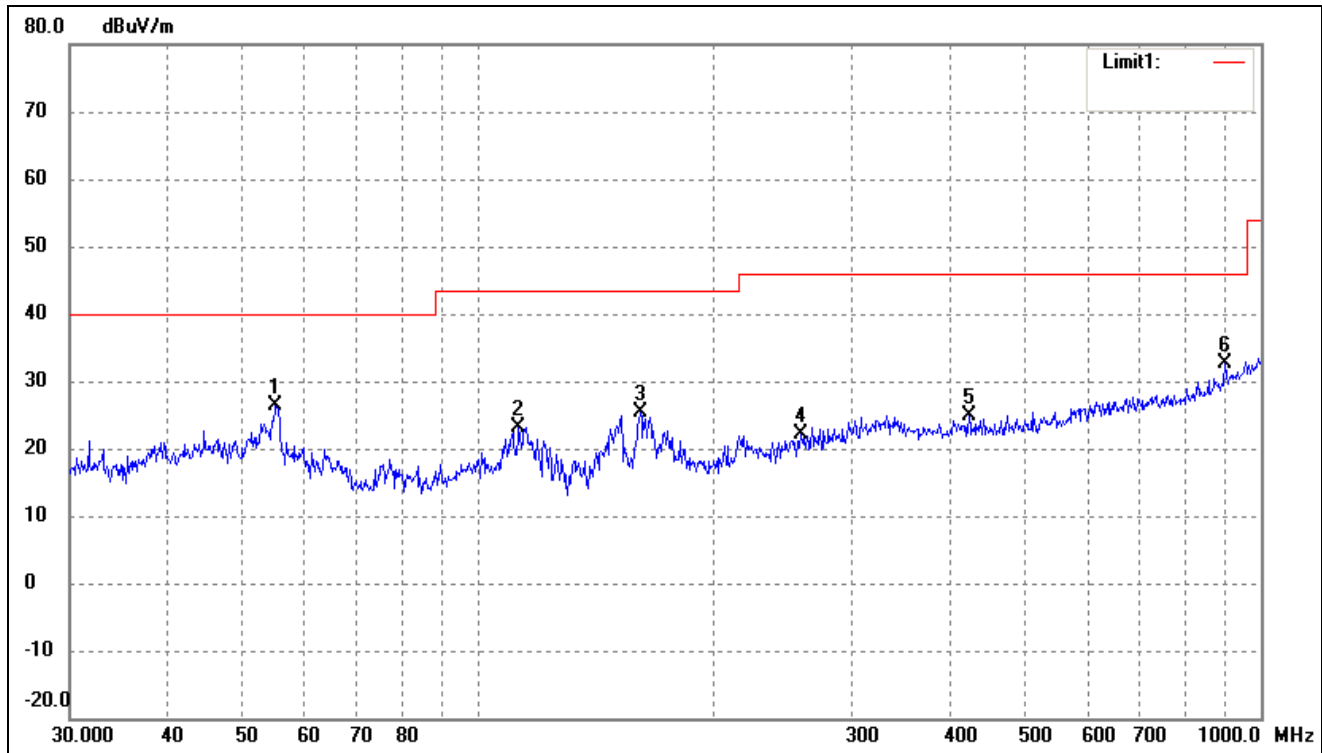
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	55.4147	40.07	-13.31	26.76	40.00	-13.24	60	100	peak
2	110.1816	37.47	-13.94	23.53	43.50	-19.97	148	100	peak
3	150.0108	41.71	-16.76	24.95	43.50	-18.55	60	100	peak
4	334.8589	32.14	-6.66	25.48	46.00	-20.52	209	100	peak
5	706.6999	30.19	-2.51	27.68	46.00	-18.32	241	100	peak

Test Channel	Low	Polarity:	Vertical
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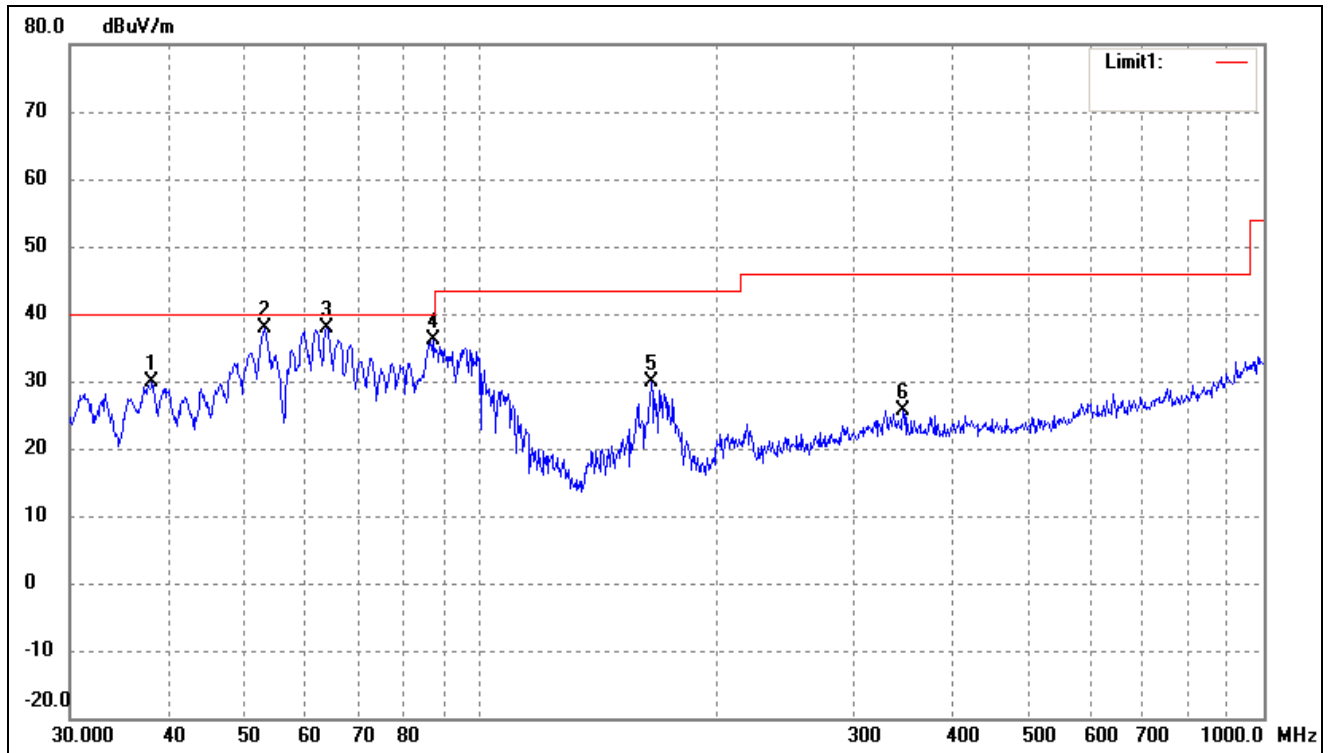
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	39.9942	44.27	-14.03	30.24	40.00	-9.76	180	100	peak
2	53.1313	49.25	-12.90	36.35	40.00	-3.65	254	100	peak
3	59.6493	51.31	-14.53	36.78	40.00	-3.22	77	100	peak
4	97.1148	50.71	-14.90	35.81	43.50	-7.69	222	100	peak
5	167.2368	42.57	-15.51	27.06	43.50	-16.44	69	100	peak
6	455.9058	32.13	-6.37	25.76	46.00	-20.24	296	100	peak

Test Channel	High	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	55.0274	39.63	-13.22	26.41	40.00	-13.59	59	100	peak
2	112.5244	37.57	-14.35	23.22	43.50	-20.28	99	100	peak
3	160.9089	41.35	-16.01	25.34	43.50	-18.16	51	100	peak
4	258.3264	31.44	-9.40	22.04	46.00	-23.96	125	100	peak
5	423.5403	31.19	-6.19	25.00	46.00	-21.00	101	100	peak
6	900.1474	31.12	1.39	32.51	46.00	-13.49	253	100	peak

Test Channel	High	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	38.2120	44.33	-14.42	29.91	40.00	-10.09	227	100	peak
2	53.1313	50.70	-12.90	37.80	40.00	-2.20	140	100	peak
3	63.7588	52.88	-15.07	37.81	40.00	-2.19	79	100	peak
4	87.1117	53.72	-17.49	36.23	40.00	-3.77	326	100	peak
5	165.4867	45.55	-15.62	29.93	43.50	-13.57	279	100	peak
6	346.8092	32.18	-6.49	25.69	46.00	-20.31	188	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	100.26	-7.40	92.86	114	-21.14	H	PK
2403	98.04	-7.40	90.64	94	-3.36	H	AV
4806	49.70	-6.48	43.22	74	-30.78	H	PK
4806	50.02	-6.48	43.54	54	-10.46	H	AV
7209	53.88	-8.91	44.97	74	-29.03	H	PK
7209	52.71	-8.91	43.80	54	-10.20	H	AV
2403	98.53	-7.40	91.13	114	-22.87	V	PK
2403	97.14	-7.40	89.74	94	-4.26	V	AV
4806	52.01	-6.48	45.53	74	-28.47	V	PK
4806	51.46	-6.48	44.98	54	-9.02	V	AV
7209	52.70	-8.91	43.79	74	-30.21	V	PK
7209	50.66	-8.91	41.75	54	-12.25	V	AV
Middle Channel-2440MHz							
2440	95.45	-7.36	88.09	114	-25.91	H	PK
2440	93.93	-7.36	86.57	94	-7.43	H	AV
4880	51.17	-6.02	45.15	74	-28.85	H	PK
4880	51.47	-6.02	45.45	54	-8.55	H	AV
7320	52.03	-6.88	45.15	74	-28.85	H	PK
7320	52.52	-6.88	45.64	54	-8.36	H	AV
2440	95.08	-7.36	87.72	114	-26.28	V	PK
2440	90.68	-7.36	83.32	94	-10.68	V	AV
4880	52.53	-6.02	46.51	74	-27.49	V	PK
4880	48.71	-6.02	42.69	54	-11.31	V	AV
7320	55.07	-6.88	48.19	74	-25.81	V	PK
7320	52.74	-6.88	45.86	54	-8.14	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2480MHz							
2480	98.30	-7.28	91.02	114	-22.98	H	PK
2480	95.71	-7.28	88.43	94	-5.57	H	AV
4960	51.77	-7.03	44.74	74	-29.26	H	PK
4960	48.99	-7.03	41.96	54	-12.04	H	AV
7440	56.27	-9.47	46.80	74	-27.20	H	PK
7440	53.28	-9.47	43.81	54	-10.19	H	AV
2480	96.55	-7.28	89.27	114	-24.73	V	PK
2480	92.44	-7.28	85.16	94	-8.84	V	AV
4960	50.34	-7.03	43.31	74	-30.69	V	PK
4960	49.72	-7.03	42.69	54	-11.31	V	AV
7440	54.21	-9.47	44.74	74	-29.26	V	PK
7440	52.43	-9.47	42.96	54	-11.04	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3th 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.

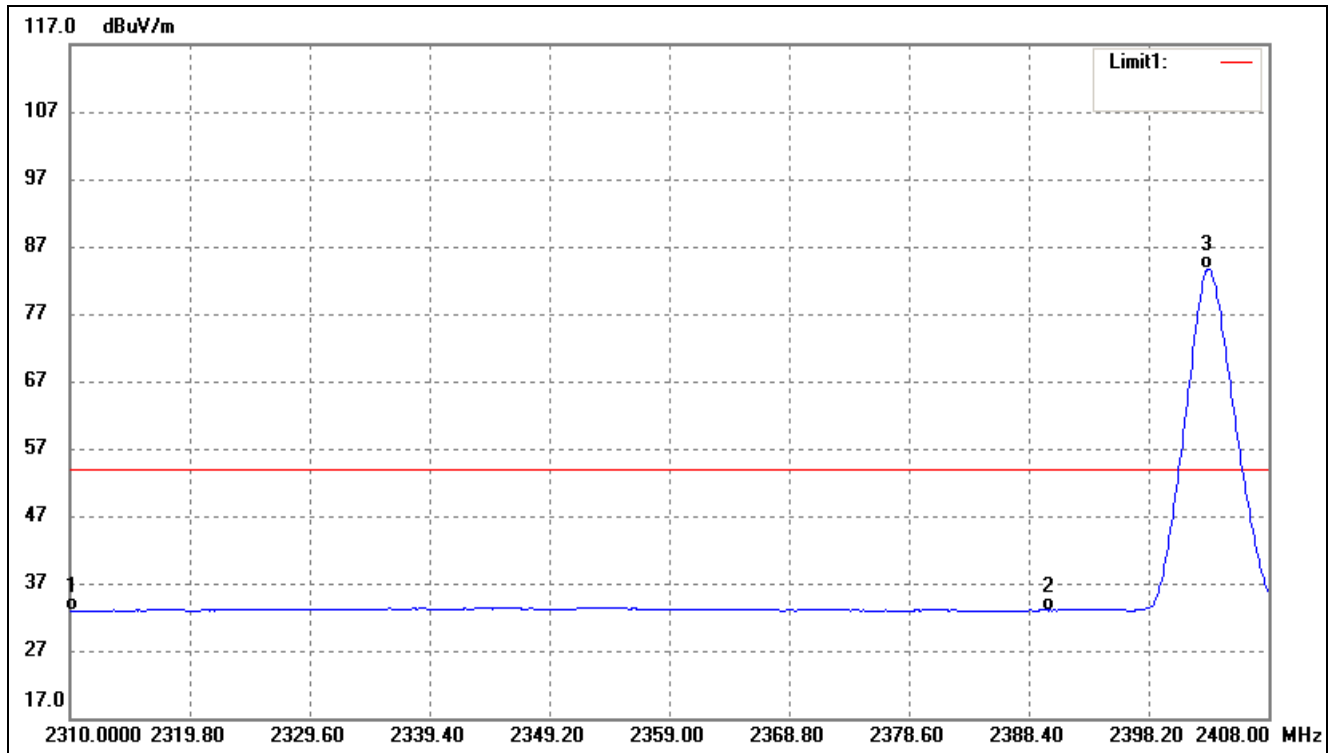
5.3 Summary of Test Results/Plots

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.

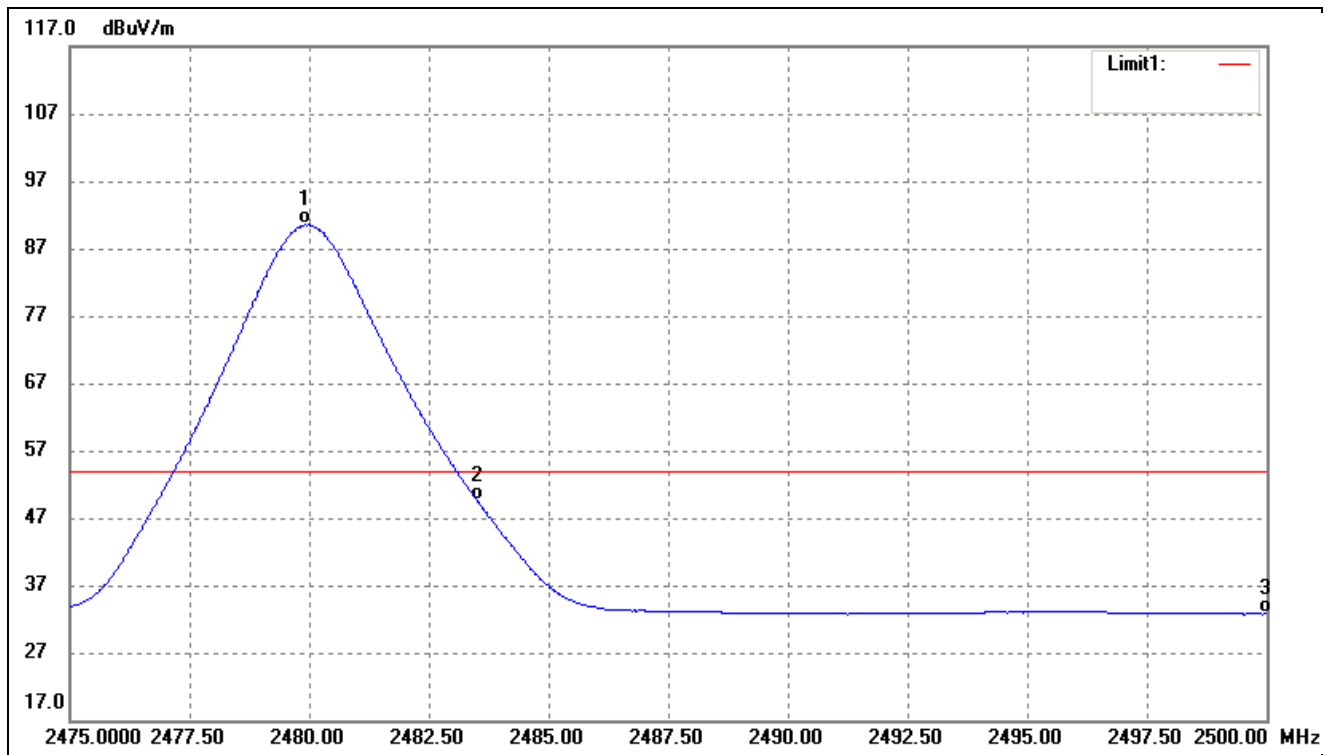
Please refer to the test plots as below.

Test Channel	Low	Polarity:	Vertical(worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	40.71	-7.78	32.93	54.00	-21.07	Average Detector
	2310.000	54.30	-7.78	46.52	74.00	-27.48	Peak Detector
2	2390.000	40.32	-7.32	33.00	54.00	-21.00	Average Detector
	2390.000	51.98	-7.32	44.66	74.00	-29.34	Peak Detector
3	2402.904	90.89	-7.25	83.64	/	/	Average Detector
	2402.806	94.72	-7.25	87.47	/	/	Peak Detector

Test Channel	High	Polarity:	Vertical(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	2479.925	97.38	-6.79	90.59	/	/	Average Detector
	2479.775	99.54	-6.79	92.75	/	/	Peak Detector
2	2483.500	56.52	-6.77	49.75	54.00	-4.25	Average Detector
	2483.500	66.54	-6.77	59.77	74.00	-14.23	Peak Detector
3	2500.000	39.47	-6.67	32.80	54.00	-21.20	Average Detector
	2494.325	67.00	-6.71	60.29	74.00	-13.71	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

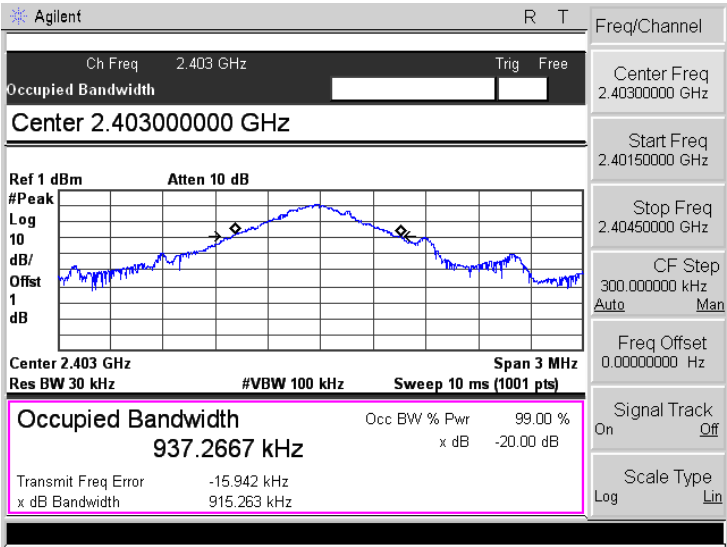
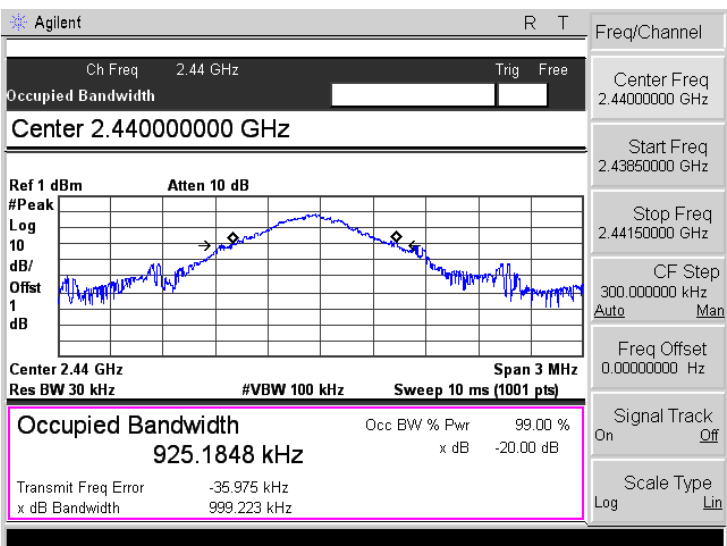
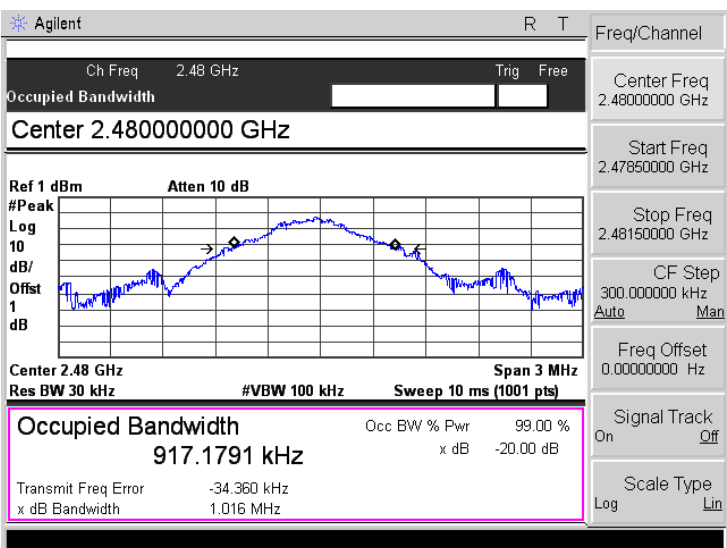
Trace = max hold

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	915.263
Middle Channel	999.223
High Channel	1016.000

Please refer to the following test plots

Low Channel	 Agilent R T Ch Freq 2.403 GHz Trig Free Occupied Bandwidth Center 2.40300000 GHz Ref 1 dBm Atten 10 dB #Peak Log 10 dB/Offset 1 dB Center 2.403 GHz Span 3 MHz Res BW 30 kHz #VBW 100 kHz Sweep 10 ms (1001 pts) Occupied Bandwidth 937.2667 kHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -15.942 kHz x dB Bandwidth 915.263 kHz Freq/Channel Center Freq 2.40300000 GHz Start Freq 2.40150000 GHz Stop Freq 2.40450000 GHz CF Step 300.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
Middle Channel	 Agilent R T Ch Freq 2.44 GHz Trig Free Occupied Bandwidth Center 2.44000000 GHz Ref 1 dBm Atten 10 dB #Peak Log 10 dB/Offset 1 dB Center 2.44 GHz Span 3 MHz Res BW 30 kHz #VBW 100 kHz Sweep 10 ms (1001 pts) Occupied Bandwidth 925.1848 kHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -35.975 kHz x dB Bandwidth 999.223 kHz Freq/Channel Center Freq 2.44000000 GHz Start Freq 2.43850000 GHz Stop Freq 2.44150000 GHz CF Step 300.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
High Channel	 Agilent R T Ch Freq 2.48 GHz Trig Free Occupied Bandwidth Center 2.48000000 GHz Ref 1 dBm Atten 10 dB #Peak Log 10 dB/Offset 1 dB Center 2.48 GHz Span 3 MHz Res BW 30 kHz #VBW 100 kHz Sweep 10 ms (1001 pts) Occupied Bandwidth 917.1791 kHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -34.360 kHz x dB Bandwidth 1.016 MHz Freq/Channel Center Freq 2.48000000 GHz Start Freq 2.47850000 GHz Stop Freq 2.48150000 GHz CF Step 300.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin

7. Conducted Emissions

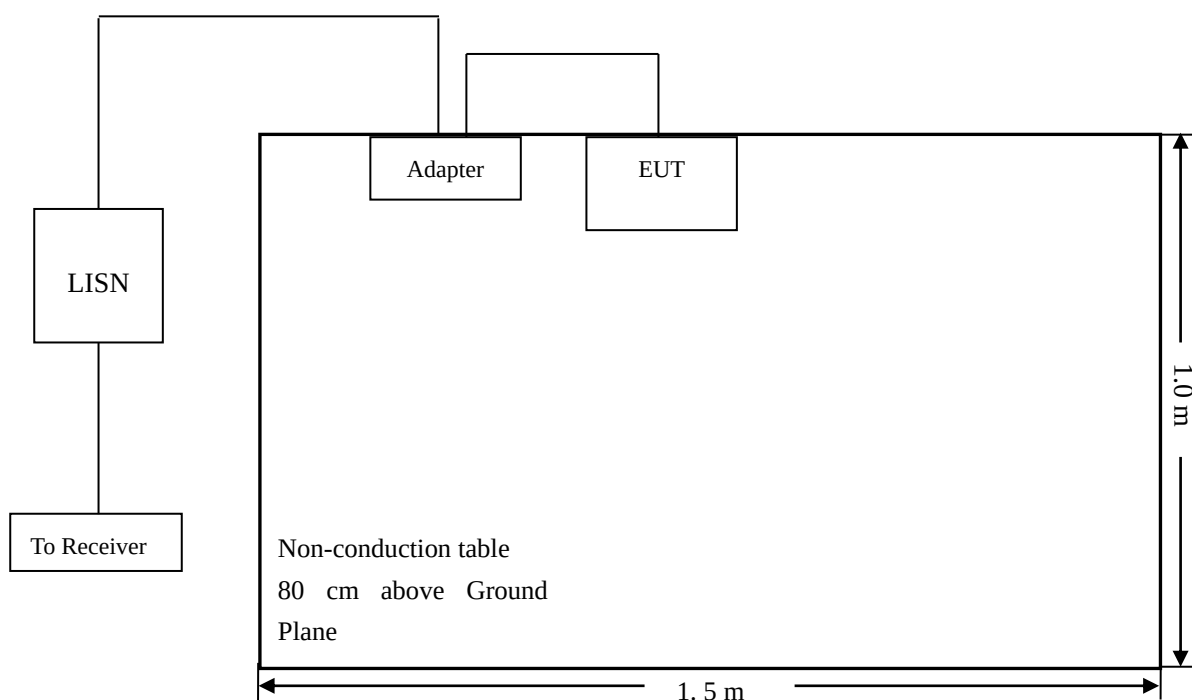
7.1 Test Procedure

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



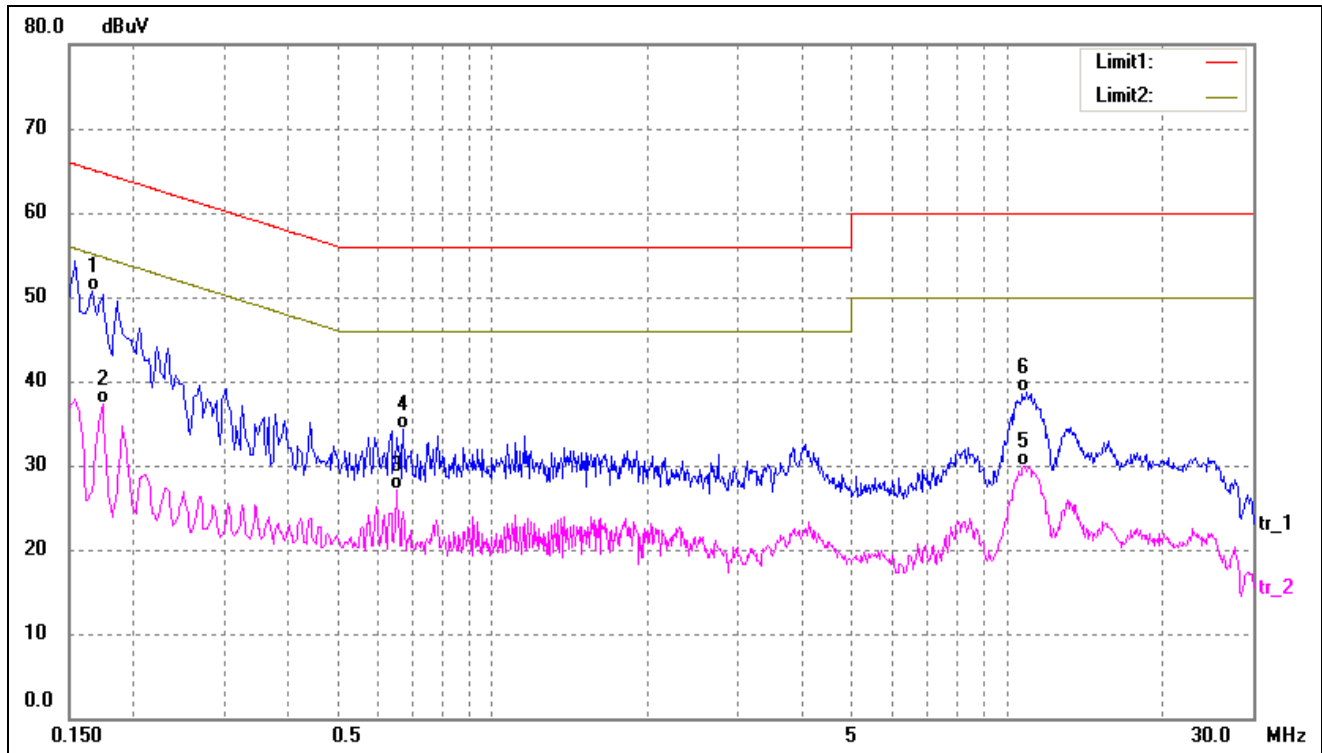
7.3 Test Receiver Setup

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

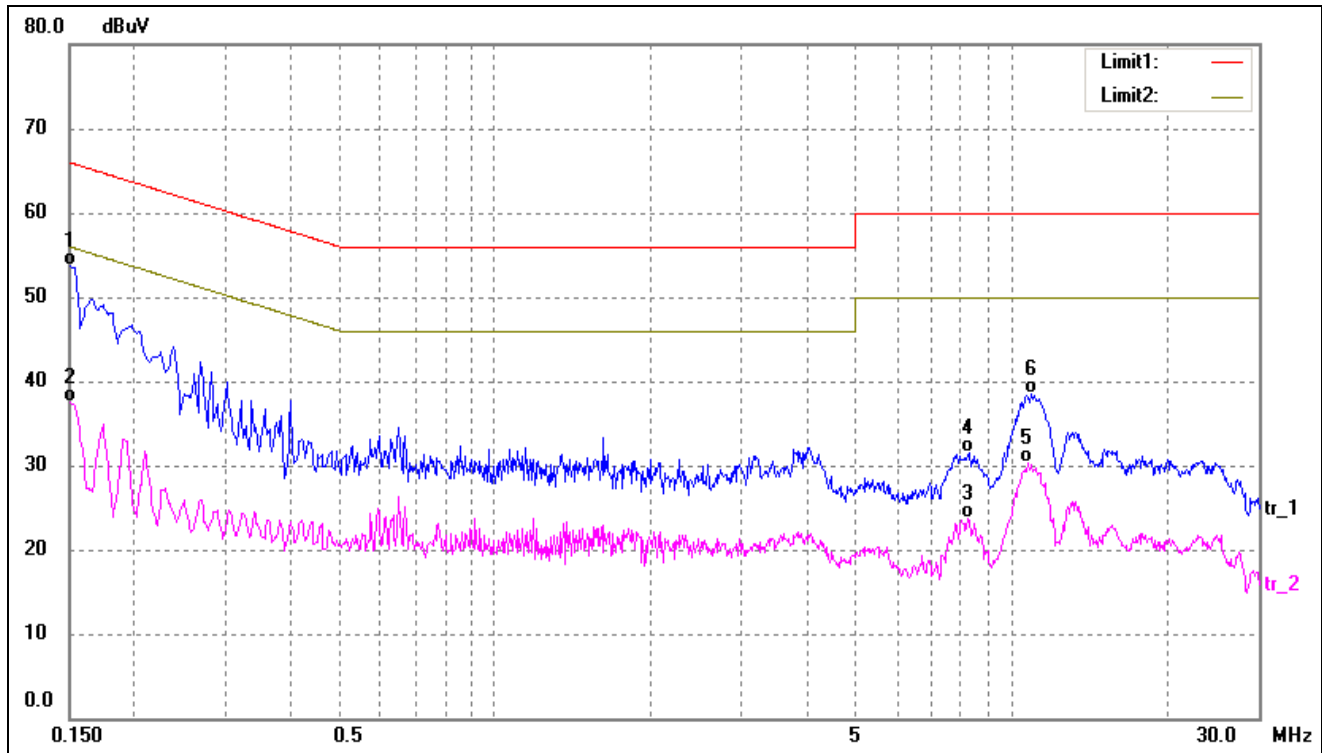
7.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1660	40.52	10.11	50.63	65.16	-14.53	QP
2	0.1740	27.10	10.11	37.21	54.77	-17.56	AVG
3	0.6500	16.71	10.36	27.07	46.00	-18.93	AVG
4	0.6700	23.88	10.38	34.26	56.00	-21.74	QP
5	10.7940	19.02	10.96	29.98	50.00	-20.02	AVG
6	10.9220	27.74	10.96	38.70	60.00	-21.30	QP

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1500	43.59	10.10	53.69	66.00	-12.31	QP
2	0.1500	27.45	10.10	37.55	56.00	-18.45	AVG
3	8.2140	12.74	10.89	23.63	50.00	-26.37	AVG
4	8.2860	20.59	10.89	31.48	60.00	-28.52	QP
5	10.7820	19.29	10.96	30.25	50.00	-19.75	AVG
6	10.9100	27.62	10.96	38.58	60.00	-21.42	QP

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