FCC Part 15C
Measurement and Test Report

For

Hong Kong RFID Ltd.

Unit 11, 9/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fotan, Shatin,

Hong Kong

FCC ID: XNOHKRAT-RT03

FCC Rule(s):	FCC Part 15.249
Product Description:	2.4GHz WIRELESS ACTIVE RFID TAG
Tested Model:	HKRAT-RT03
Report No.:	WTX19X01003726W-1
Sample Receipt Date:	2019-01-16
Tested Date:	2019-01-16 to 2019-03-15
Issued Date:	2019-04-23
Tested By:	Jason Su / Engineer
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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	Hong Kong RFID Ltd.
Address of applicant:	Unit 11, 9/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fotan, Shatin, Hong Kong
Manufacturer:	Hong Kong RFID Ltd.
Address of manufacturer:	Unit 11, 9/F, Wah Wai Centre, 38-40 Au Pui Wan Street, Fotan, Shatin, Hong Kong

General Description of EUT	
Product Name:	2.4GHz WIRELESS ACTIVE RFID TAG
Trade Name:	/
Model No.:	HKRAT-RT03
Adding Model(s):	HKRAT-RT03-***** (*=0, H, I, M, R, T, Z)
Rated Voltage:	DC3V
Power Adapter Model:	/
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 HKRAT-RT03, but the circuit and the electronic construction do not change, declared by the manufacturer.	

Technical Characteristics of EUT	
Frequency Range:	2402MHz-2480MHz
Max. Field Strength:	100.22dBuV/m
Modulation:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Lowest Internal Frequency of EUT:	32.768kHz

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	2402MHz
TM2	Middle Channel	2441MHz
TM3	High Channel	2480MHz

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
/	/	/	/

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	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

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 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:

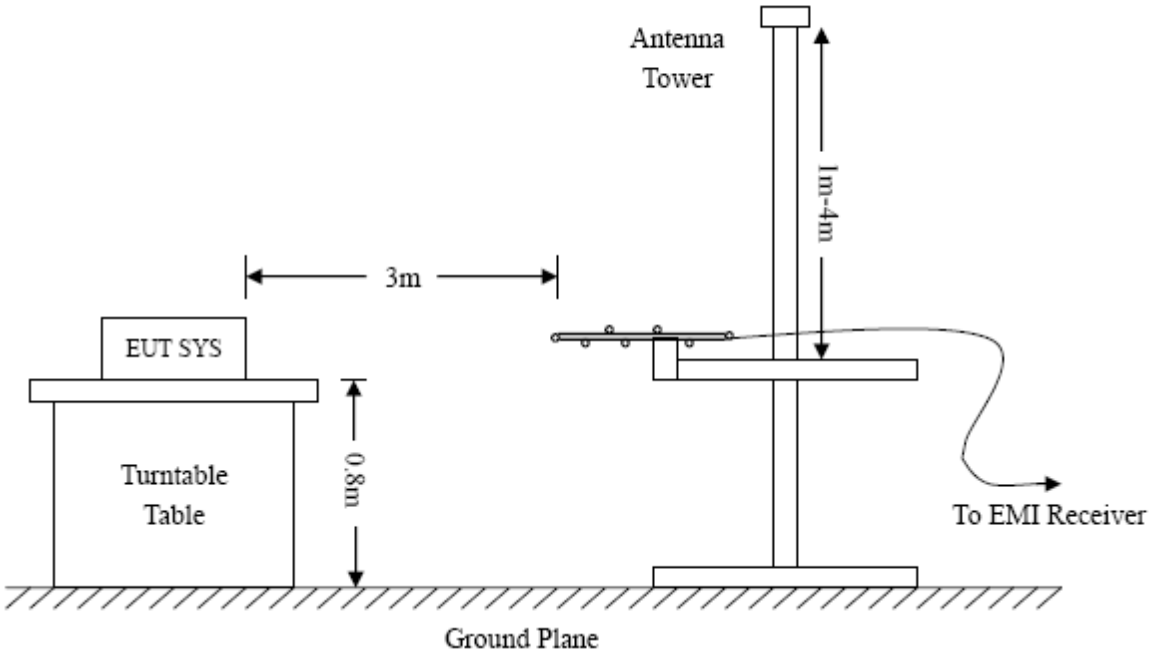
Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of Harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

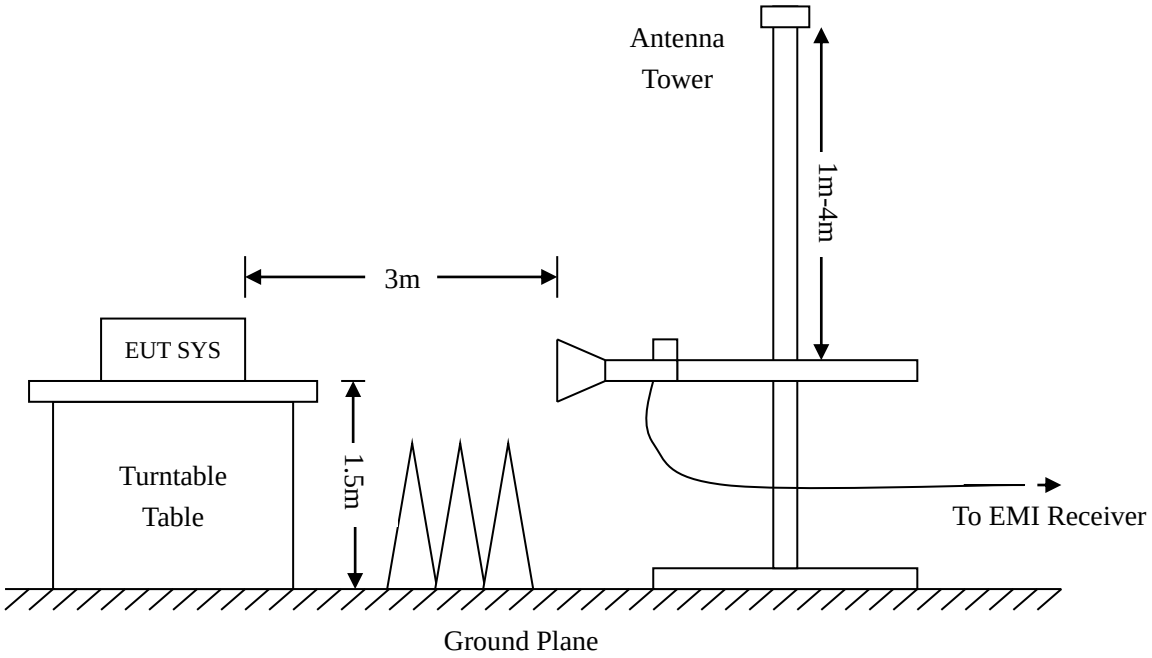
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

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	Frequency :30MHz-1GHz	Frequency :Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	Trace = max hold
Detector function = peak	Detector function = peak, QP	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:

Corr. Ampl. = Indicated Reading + Ant. Factor + Cable Loss – 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:

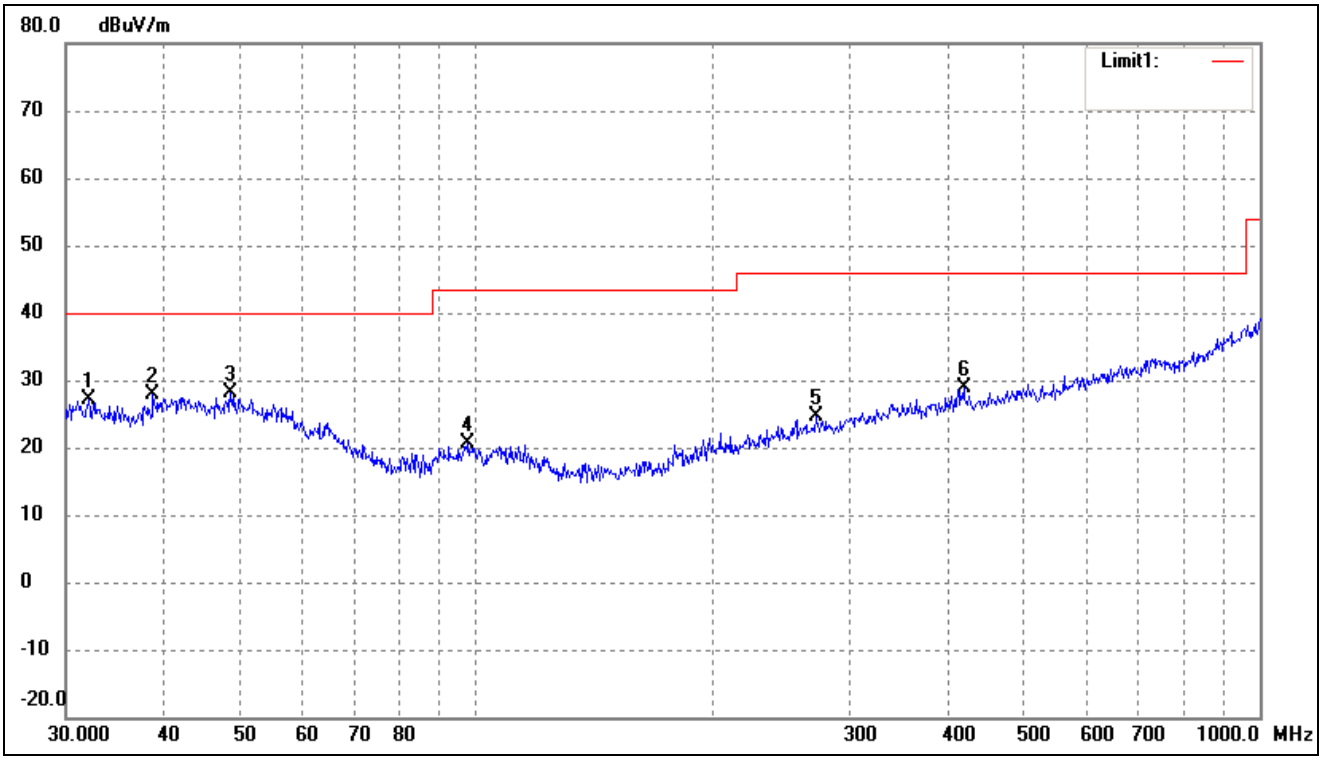
Margin = Corr. Ampl. – FCC Part 15C Limit

4.4 Summary of Test Results/Plots

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

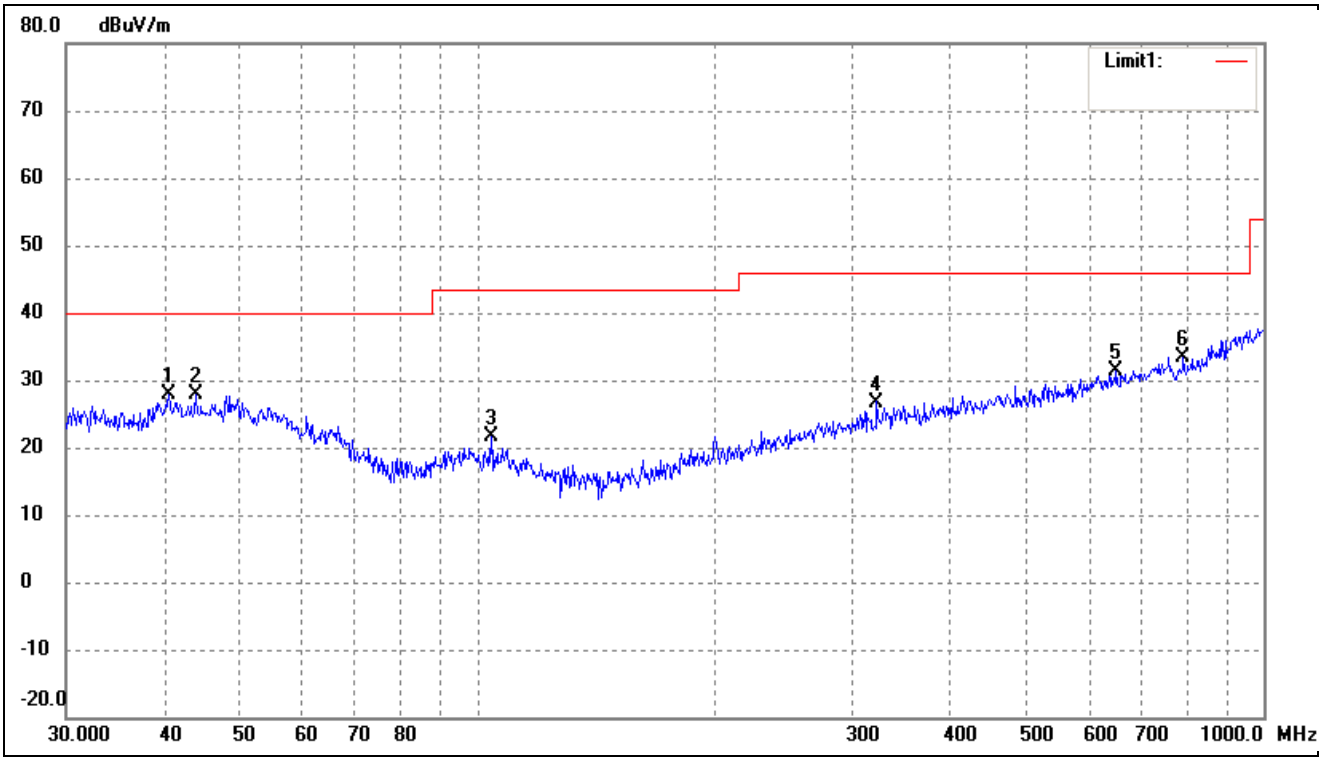
➢ Spurious Emissions Below 1GHz

➢ Test Channel	Low	Polarity:	Horizontal



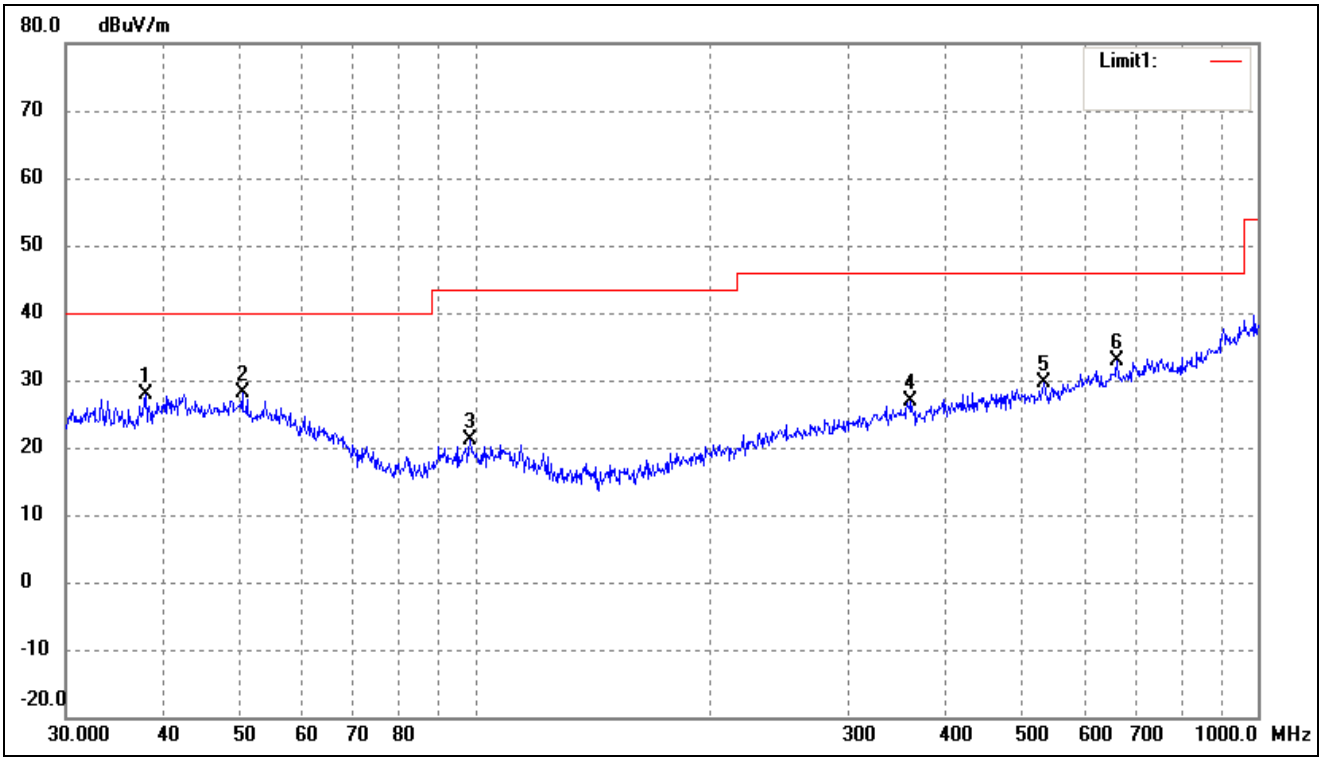
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	32.0668	36.80	-9.73	27.07	40.00	-12.93	208	100	peak
2	38.7518	36.51	-8.69	27.82	40.00	-12.18	99	100	peak
3	48.6719	36.54	-8.29	28.25	40.00	-11.75	158	100	peak
4	97.7983	35.56	-15.00	20.56	43.50	-22.94	95	100	peak
5	271.3246	35.12	-10.40	24.72	46.00	-21.28	158	100	peak
6	419.1081	35.86	-6.92	28.94	46.00	-17.06	248	100	peak

Test Channel	Low	Polarity:	Vertical



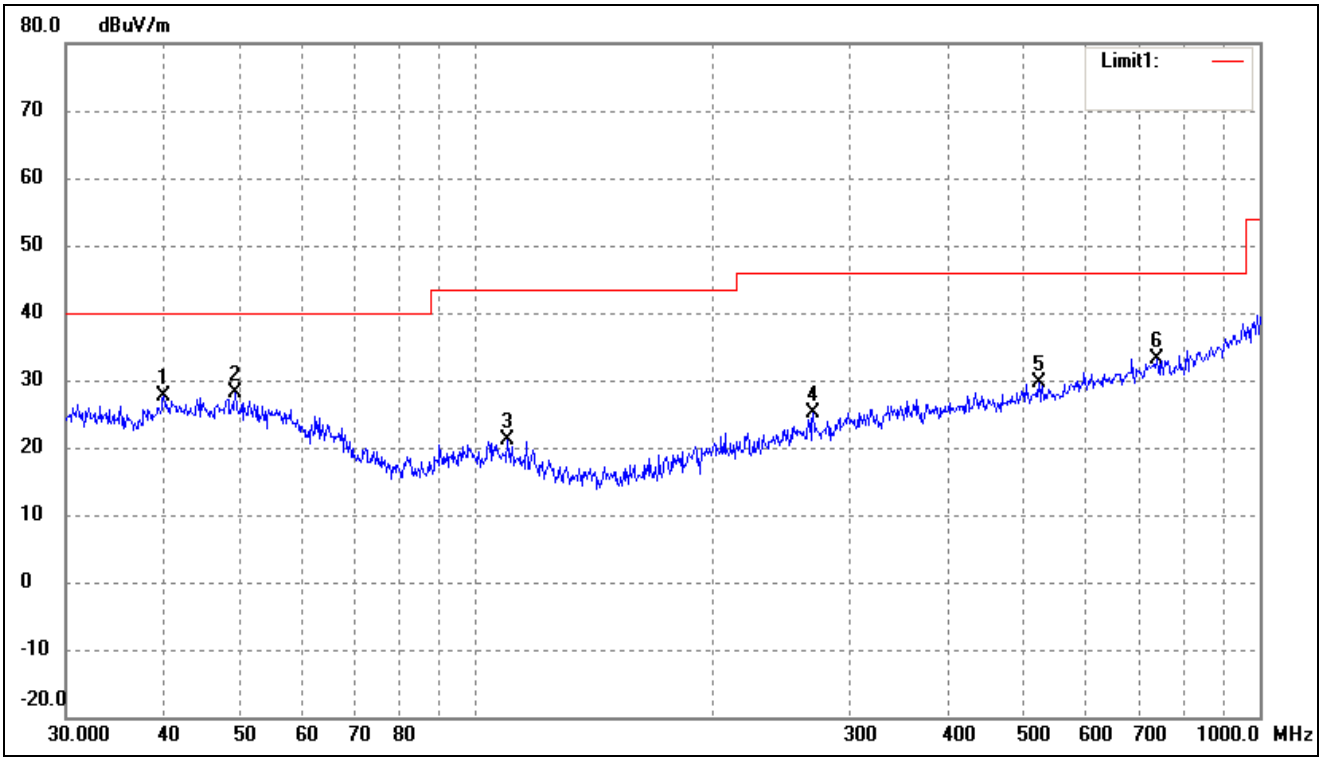
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	40.5591	36.20	-8.40	27.80	40.00	-12.20	343	100	peak
2	43.8119	35.80	-8.01	27.79	40.00	-12.21	94	100	peak
3	104.1701	36.20	-14.59	21.61	43.50	-21.89	117	100	peak
4	322.1886	35.56	-8.81	26.75	46.00	-19.25	121	100	peak
5	649.6597	34.80	-3.44	31.36	46.00	-14.64	94	100	peak
6	790.6188	35.08	-1.72	33.36	46.00	-12.64	213	100	peak

Test Channel	Middle	Polarity:	Horizontal



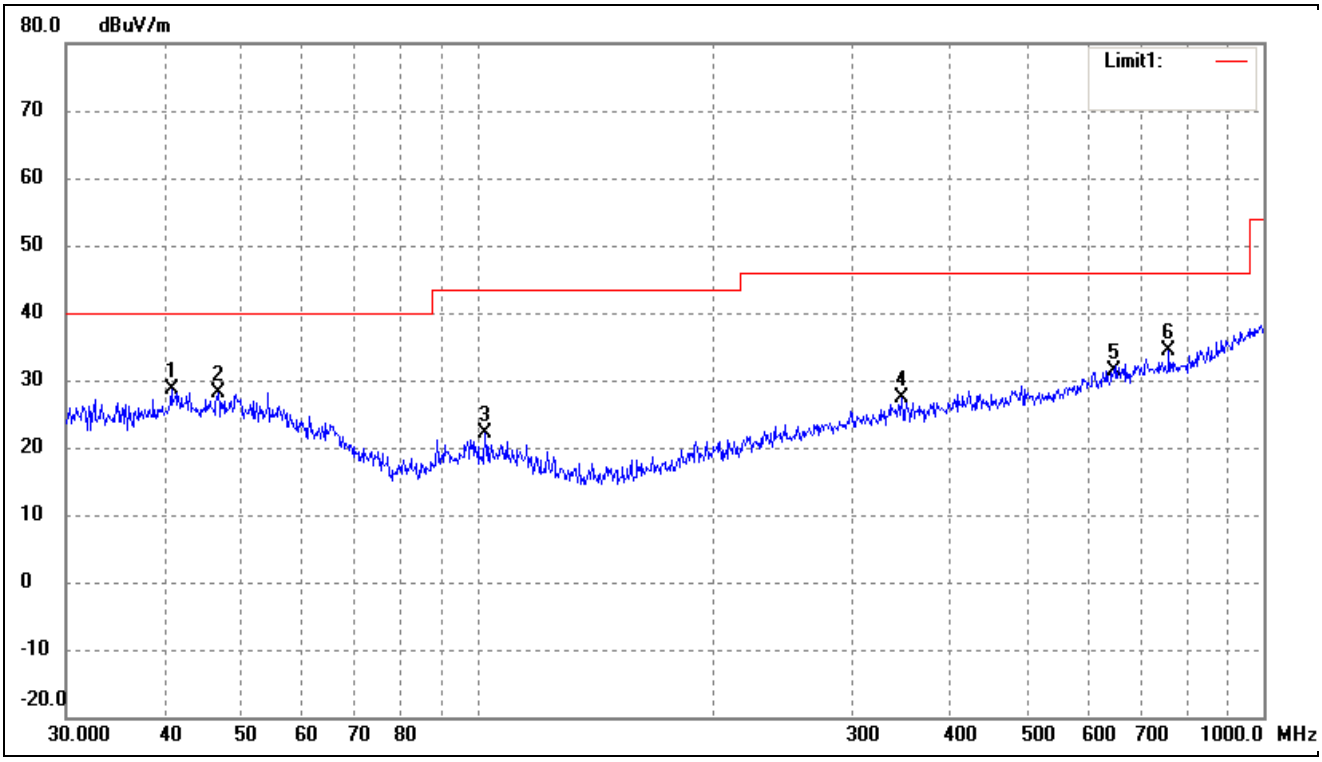
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	37.9450	36.73	-8.78	27.95	40.00	-12.05	334	100	peak
2	50.4089	36.71	-8.55	28.16	40.00	-11.84	133	100	peak
3	98.4866	36.15	-14.97	21.18	43.50	-22.32	58	100	peak
4	360.4477	35.16	-8.18	26.98	46.00	-19.02	153	100	peak
5	533.8321	35.09	-5.49	29.60	46.00	-16.40	246	100	peak
6	661.1505	36.06	-3.23	32.83	46.00	-13.17	90	100	peak

Test Channel	Middle	Polarity:	Vertical



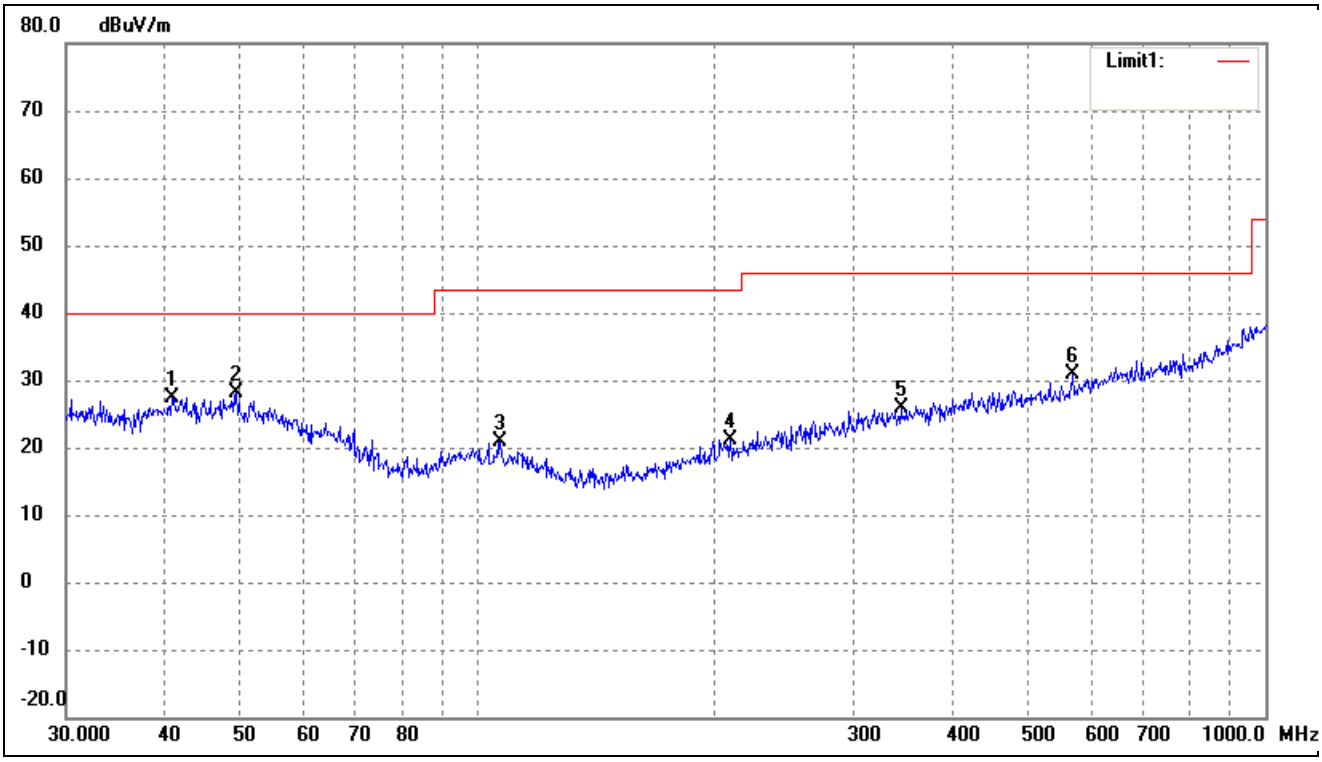
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	39.9942	36.19	-8.55	27.64	40.00	-12.36	65	100	peak
2	49.3594	36.63	-8.42	28.21	40.00	-11.79	239	100	peak
3	109.7960	35.52	-14.42	21.10	43.50	-22.40	93	100	peak
4	269.4284	35.65	-10.48	25.17	46.00	-20.83	286	100	peak
5	522.7180	35.32	-5.74	29.58	46.00	-16.42	93	100	peak
6	739.6605	35.00	-1.84	33.16	46.00	-12.84	224	100	peak

Test Channel	High	Polarity:	Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	40.8446	36.92	-8.33	28.59	40.00	-11.41	120	100	peak
2	46.8303	36.27	-8.11	28.16	40.00	-11.84	173	100	peak
3	102.3597	36.85	-14.73	22.12	43.50	-21.38	125	100	peak
4	346.8092	35.35	-7.99	27.36	46.00	-18.64	112	100	peak
5	645.1195	34.89	-3.49	31.40	46.00	-14.60	86	100	peak
6	758.0408	35.92	-1.61	34.31	46.00	-11.69	210	100	peak

Test Channel	High	Polarity:	Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	40.8446	35.81	-8.33	27.48	40.00	-12.52	69	100	peak
2	49.3594	36.51	-8.42	28.09	40.00	-11.91	158	100	peak
3	106.7587	35.40	-14.48	20.92	43.50	-22.58	126	100	peak
4	209.3129	34.21	-13.20	21.01	43.50	-22.49	135	100	peak
5	344.3855	33.82	-8.03	25.79	46.00	-20.21	243	100	peak
6	568.6127	35.55	-4.75	30.80	46.00	-15.20	313	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-2402MHz							
2402	107.47	-7.25	100.22	114	-13.78	H	PK
2402	96.61	-7.25	89.36	94	-4.64	H	AV
4804	58.28	-3.59	54.69	74	-19.31	H	PK
4804	39.74	-3.59	36.15	54	-17.85	H	AV
7206	59.96	-0.52	59.44	74	-14.56	H	PK
7206	41.38	-0.52	40.86	54	-13.14	H	AV
2402	99.38	-7.25	92.13	114	-21.87	V	PK
2402	86.82	-7.25	79.57	94	-14.43	V	AV
4804	59.58	-3.59	55.99	74	-18.01	V	PK
4804	40.85	-3.59	37.26	54	-16.74	V	AV
7206	58.89	-0.52	58.37	74	-15.63	V	PK
7206	38.8	-0.52	38.28	54	-15.72	V	AV
Middle Channel-2441MHz							
2441	106.17	-7.01	99.16	114	-14.84	H	PK
2441	95.27	-7.01	88.26	94	-5.74	H	AV
4882	61.08	-3.49	57.59	74	-16.41	H	PK
4882	40.2	-3.49	36.71	54	-17.29	H	AV
7323	59.33	-0.47	58.86	74	-15.14	H	PK
7323	41.6	-0.47	41.13	54	-12.87	H	AV
2441	102.59	-7.01	95.58	114	-18.42	V	PK
2441	91.73	-7.01	84.72	94	-9.28	V	AV
4882	59.75	-3.49	56.26	74	-17.74	V	PK
4882	40.23	-3.49	36.74	54	-17.26	V	AV
7323	58.95	-0.47	58.48	74	-15.52	V	PK
7323	38.91	-0.47	38.44	54	-15.56	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
High Channel-2480MHz							
2480	105.50	-6.79	98.71	114	-15.29	H	PK
2480	94.53	-6.79	87.74	94	-6.26	H	AV
4960	59.86	-3.41	56.45	74	-17.55	H	PK
4960	38.54	-3.41	35.13	54	-18.87	H	AV
7440	61.46	-0.42	61.04	74	-12.96	H	PK
7440	38.87	-0.42	38.45	54	-15.55	H	AV
2480	103.95	-6.79	97.16	114	-16.84	V	PK
2480	93.11	-6.79	86.32	94	-7.68	V	AV
4960	59.7	-3.41	56.29	74	-17.71	V	PK
4960	40.82	-3.41	37.41	54	-16.59	V	AV
7440	60.1	-0.42	59.68	74	-14.32	V	PK
7440	40.96	-0.42	40.54	54	-13.46	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.

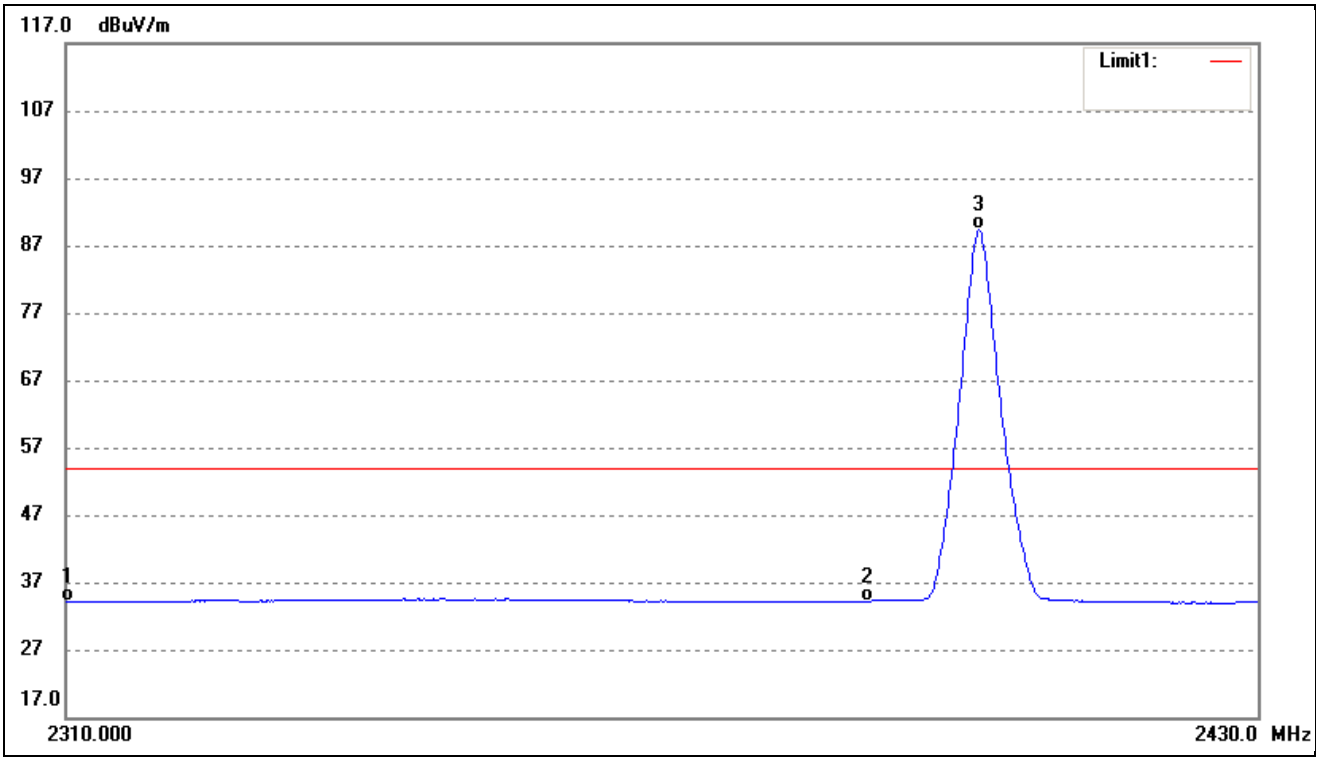
5.3 Summary of Test Results/Plots

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.

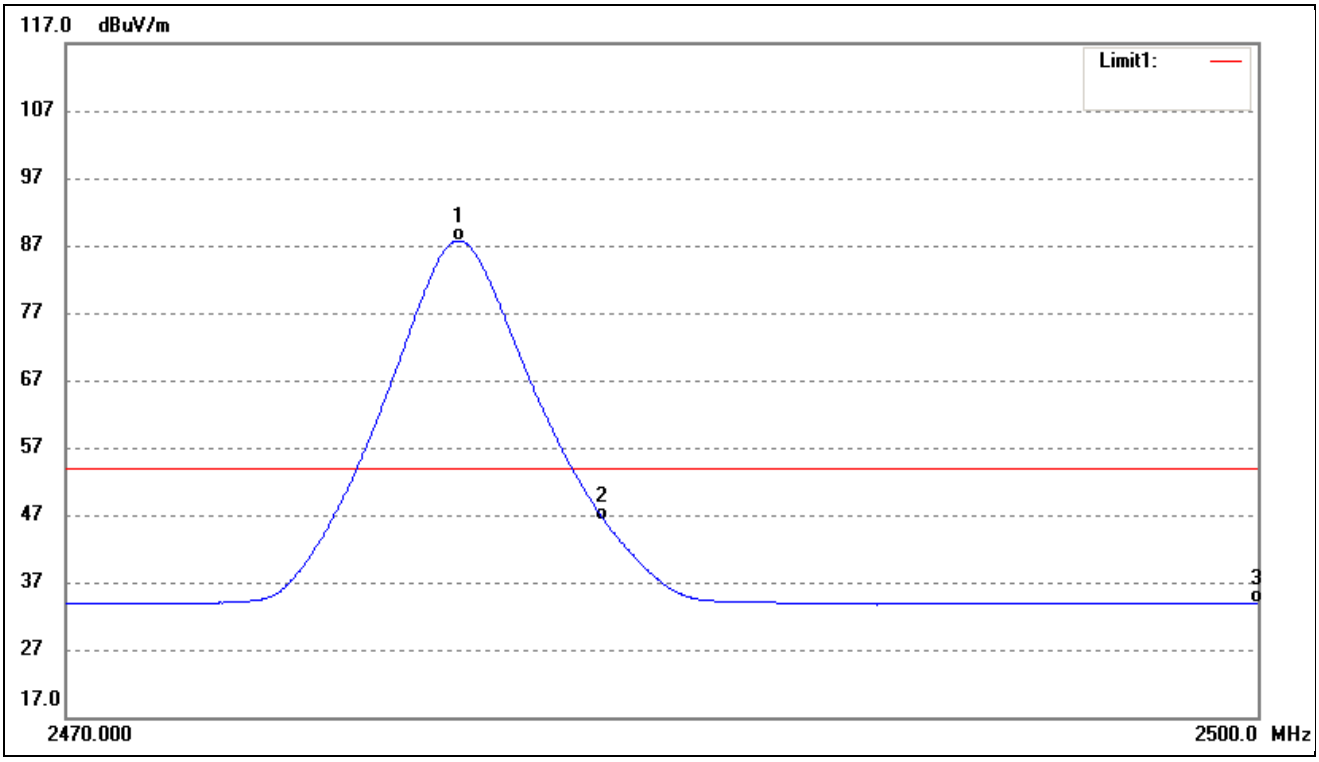
Please refer to the test plots as below.

Test Channel	Low	Polarity:	Vertical(worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	41.88	-7.78	34.10	54.00	-19.90	Ave Detector
	2310.000	54.28	-7.78	46.50	74.00	-27.50	Peak Detector
2	2390.000	41.54	-7.32	34.22	54.00	-19.78	Ave Detector
	2390.000	53.80	-7.32	46.48	74.00	-27.52	Peak Detector
3	2401.373	96.61	-7.25	89.36	/	/	Ave Detector
	2401.616	107.47	-7.25	100.22	/	/	Peak Detector

Test Channel	High	Polarity:	Vertical(worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2479.860	94.53	-6.79	87.74	/	/	Ave Detector
	2479.800	105.50	-6.79	98.71	/	/	Peak Detector
2	2483.500	52.94	-6.77	46.17	54.00	-7.83	Ave Detector
	2483.500	65.36	-6.77	58.59	74.00	-15.41	Peak Detector
3	2500.000	40.50	-6.67	33.83	54.00	-20.17	Ave Detector
	2500.000	52.91	-6.67	46.24	74.00	-27.76	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

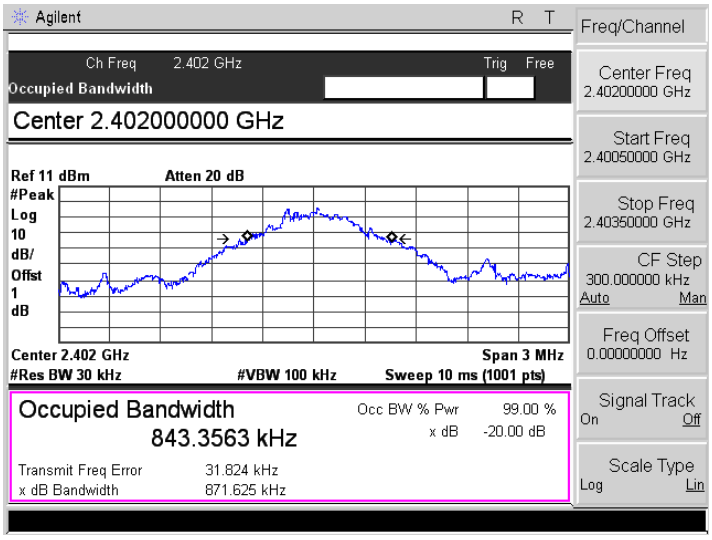
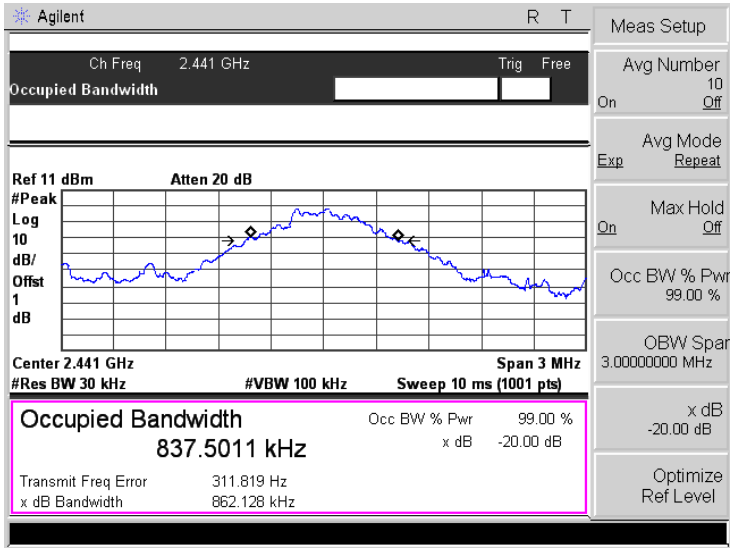
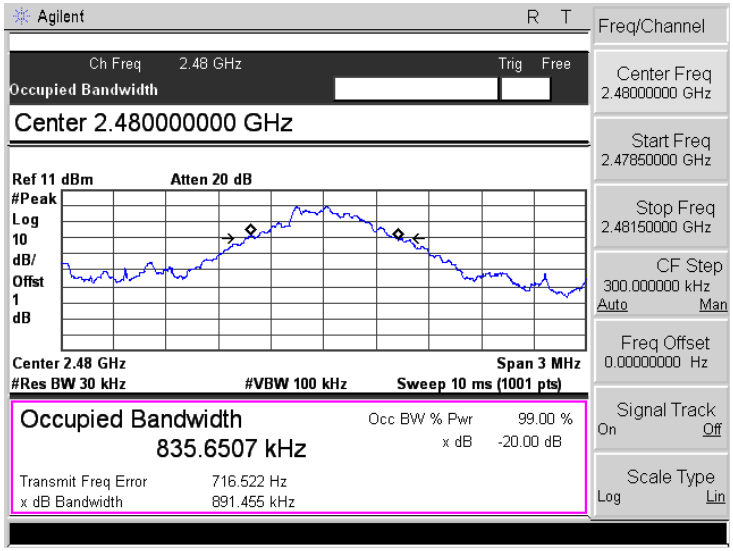
According to the ANSI 63.10-2013, the emission bandwidth test method as follows.

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 ≥1% 20dB Bandwidth, VBW ≥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	871.625
Middle Channel	862.128
High Channel	891.455

Please refer to the following test plots

Low Channel	
Middle Channel	
High Channel	

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