

FCC Test Report

Client Name : Shenzhen Hismith Technology Co., Ltd

605, 6th Floor, NO.8, Hetanguang-xinhe Street,

Client Address : Maantang Community, Bantian Street, Longgang
District, Shenzhen, Guangdong, CN

Product Name : Wildolo dildo with APP

Report Date : Dec. 19, 2022

Shenzhen Anbotek Compliance Laboratory Limited



Contents

1. General Information	5
1.1. Client Information	5
1.2. Description of Device (EUT)	5
1.3. Auxiliary Equipment Used During Test	6
1.4. Description of Test Configuration	6
1.5. Description of Test Setup	7
1.6. Test Equipment List	8
1.7. Measurement Uncertainty	9
1.8. Description of Test Facility	9
2. Summary of Test Results	10
3. Conducted Emission Test	11
3.1. Test Standard and Limit	11
3.2. Test Setup	11
3.3. Test Procedure	11
3.4. Test Data	11
4. Radiated Emission and Band Edge	14
4.1. Test Standard and Limit	14
4.2. Test Setup	15
4.3. Test Procedure	16
4.4. Test Data	17
5. 20dB Bandwidth Test	22
5.1. Test Standard and Limit	22
5.2. Test Setup	22
5.3. Test Procedure	22
5.4. Test Data	22
6. Antenna Requirement	25
6.1. Test Standard and Requirement	25
6.2. Antenna Connecteds Construction	25
APPENDIX I -- TEST SETUP PHOTOGRAPH	26
APPENDIX II -- EXTERNAL PHOTOGRAPH	26
APPENDIX III -- INTERNAL PHOTOGRAPH	26



TEST REPORT

Applicant : Shenzhen Hismith Technology Co., Ltd
Manufacturer : Shenzhen Hismith Technology Co., Ltd
Product Name : Wildolo dildo with APP
Model No. : HS08-APP
Trade Mark : HISMITH
Rating(s) : Input: 24V, 4A(via adapter input: 100-240V~50/60Hz, (2A Max)
Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.249
Test Method(s) : ANSI C63.10: 2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Dec 19, 2022

Date of Test

Dec. 14~Dec 19, 2022

Prepared by



(Ella Liang)

Approved & Authorized Signer



(Kingkong Jin)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Oct. xx, 2022



1. General Information

1.1. Client Information

Applicant	:	Shenzhen Hismith Technology Co., Ltd
Address	:	605, 6th Floor, NO.8, Hetanguang-xinhe Street, Maantang Community, Bantian Street, Longgang District, Shenzhen, Guangdong, CN
Manufacturer	:	Shenzhen Hismith Technology Co., Ltd
Address	:	605, 6th Floor, NO.8, Hetanguang-xinhe Street, Maantang Community, Bantian Street, Longgang District, Shenzhen, Guangdong, CN
Factory	:	Shenzhen Hismith Technology Co., Ltd
Address	:	605, 6th Floor, NO.8, Hetanguang-xinhe Street, Maantang Community, Bantian Street, Longgang District, Shenzhen, Guangdong, CN

1.2. Description of Device (EUT)

Product Name	:	Wildolo dildo with APP
Model No.	:	HS08-APP
Trade Mark	:	HISMITH
Test Power Supply	:	AC 120V, 60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	MODEL:YHY-24004000 P/N:DS240096C14-W INPUT:100-240V~50-60Hz, 2A OUTPUT:24==4A

RF Specification

Operation Frequency	:	2402~2480MHz
Number of Channel	:	40 Channels
Modulation Type	:	GFSK
Antenna Type	:	PCB antenna
Antenna Gain(Peak)	:	0 dBi (Provided by customer)

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
Adapter	MODEL:YHY-24004000 P/N:DS240096C14-W INPUT:100-240V~50-60Hz, 2A OUTPUT:24V=4A

1.4. Description of Test Configuration

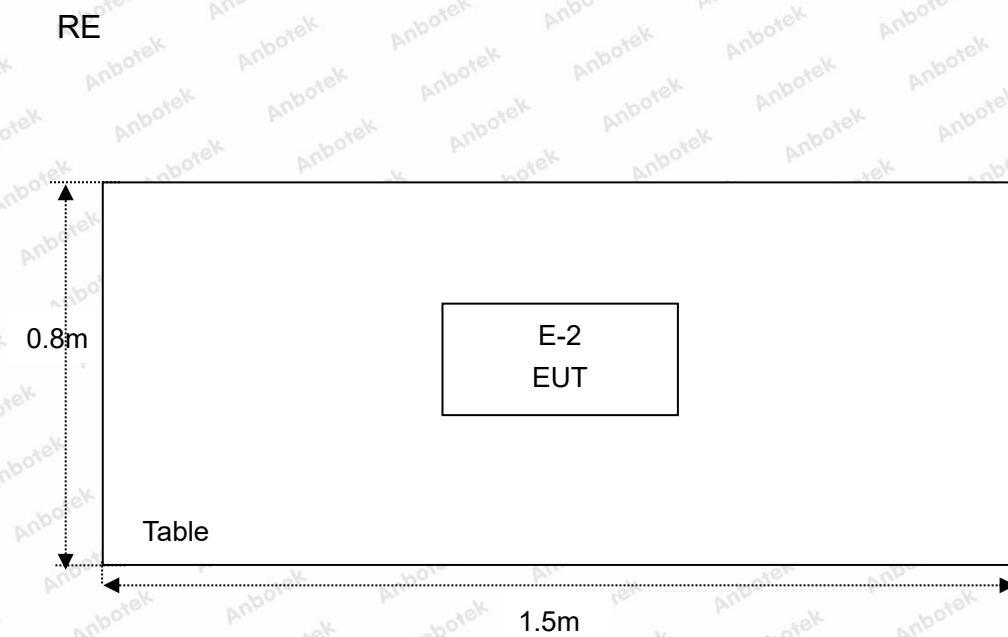
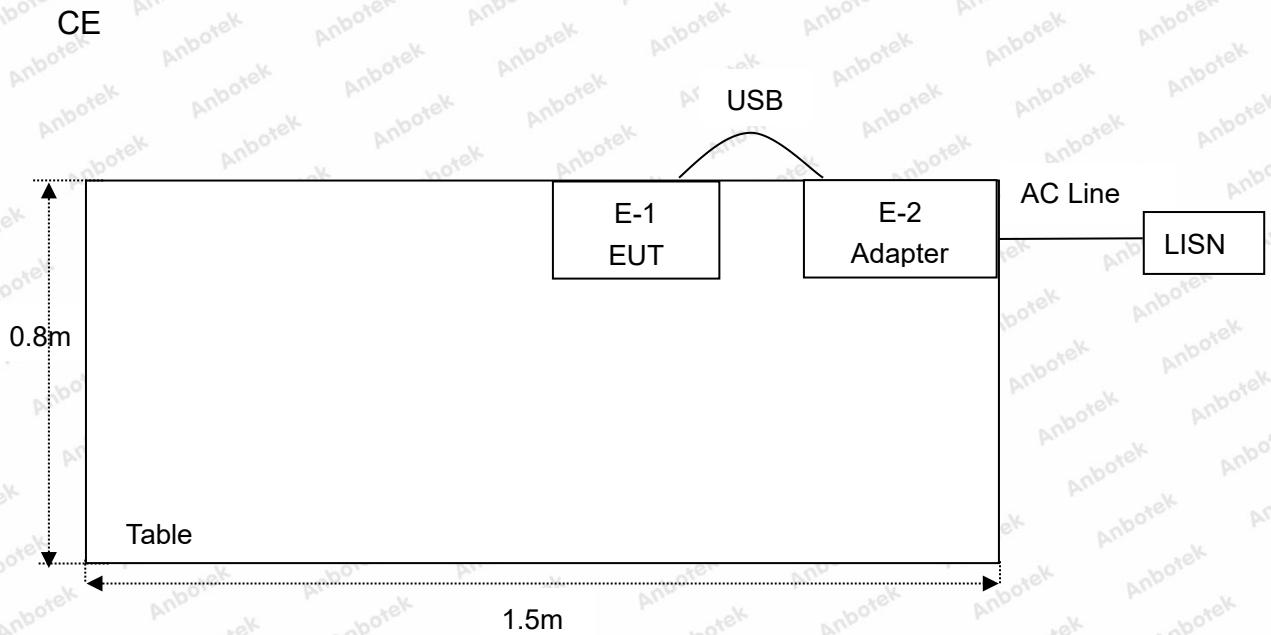
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
00	2402	09	2420	18	2438	27	2456	36	2474
01	2404	10	2422	19	2440	28	2458	37	2476
02	2406	11	2424	20	2442	29	2460	38	2478
03	2408	12	2426	21	2444	30	2462	39	2480
04	2410	13	2428	22	2446	31	2464		
05	2412	14	2430	23	2448	32	2466		
06	2414	15	2432	24	2450	33	2468		
07	2416	16	2434	25	2452	34	2470		
08	2418	17	2436	26	2454	35	2472		

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. EUT was tested with Channel 00, 19 and 39.



1.5. Description of Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 23, 2022	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2022	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 13, 2022	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 23, 2022	1 Year
5.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2022	1 Year
6.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 13, 2022	1 Year
7.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	Oct. 13, 2022	1 Year
8.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 23, 2022	1 Year
10.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 23, 2022	1 Year
11.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Oct. 23, 2022	1 Year
12.	Pre-amplifier	SONOMA	310N	186860	Oct. 23, 2022	1 Year
13.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
14.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 13, 2022	1 Year
15.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 13, 2022	1 Year
16.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 13, 2022	1 Year
17.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2022	1 Year
18.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Nov. 01, 2022	1 Year



1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
	:	Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, 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. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



2. Summary of Test Results

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209/15.249	Radiated Emission	PASS
15.249(d)	Band Edge	PASS
15.215(c)	20dB Bandwidth	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		



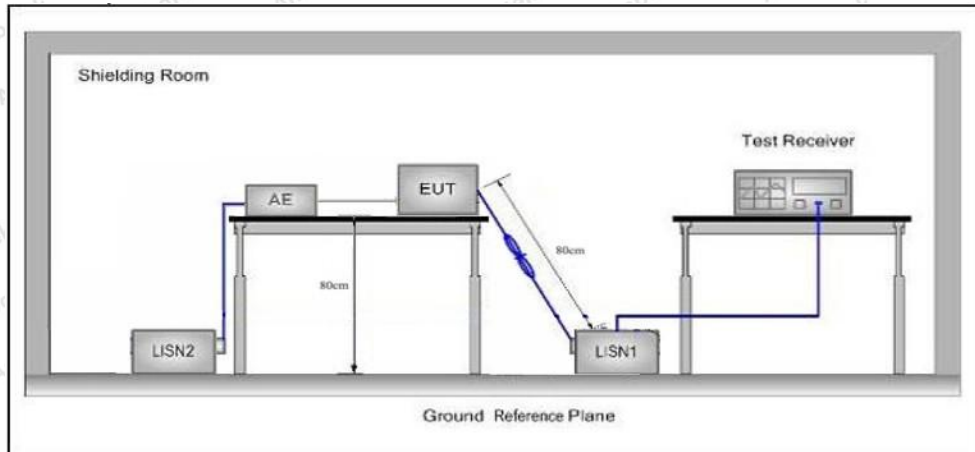
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

Remark: (1) *Decreasing linearly with logarithm of the frequency.
 (2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

During the test, pre-scan all modes, only the worst case is recorded in the report.

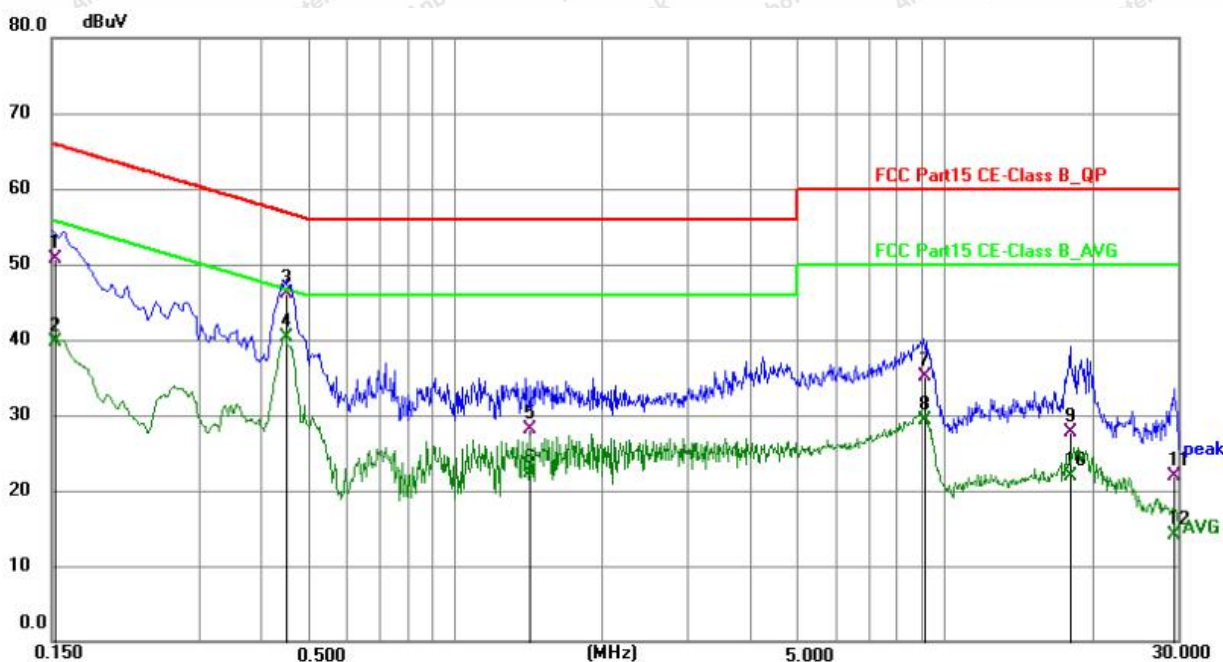
AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.

Please to see the following pages.



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: Low CH (2402MHz)
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Temp.(°C)/Hum.(%RH): 26°C/54%RH



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1520	40.46	10.26	50.72	65.89	-15.17	QP	P
2	0.1520	29.51	10.26	39.77	55.89	-16.12	AVG	P
3	0.4520	35.73	10.30	46.03	56.84	-10.81	QP	P
4 *	0.4520	30.08	10.30	40.38	46.84	-6.46	AVG	P
5	1.4190	17.73	10.42	28.15	56.00	-27.85	QP	P
6	1.4190	11.91	10.42	22.33	46.00	-23.67	AVG	P
7	9.0780	24.55	10.52	35.07	60.00	-24.93	QP	P
8	9.0780	18.88	10.52	29.40	50.00	-20.60	AVG	P
9	18.1010	16.81	10.83	27.64	60.00	-32.36	QP	P
10	18.1010	11.07	10.83	21.90	50.00	-28.10	AVG	P
11	29.6270	10.71	11.10	21.81	60.00	-38.19	QP	P
12	29.6270	3.03	11.10	14.13	50.00	-35.87	AVG	P

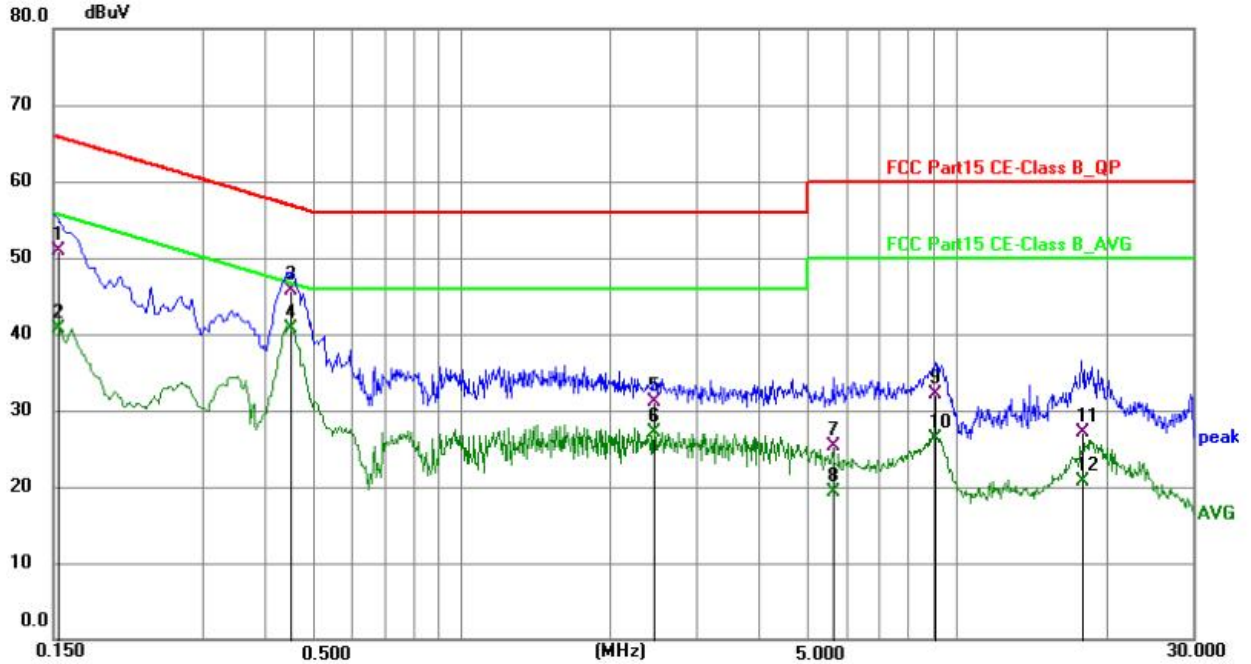
Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: Low CH (2402MHz)
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Temp.(°C)/Hum.(%RH): 26°C/54%RH



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1539	40.64	10.22	50.86	65.79	-14.93	QP	P
2	0.1539	30.44	10.22	40.66	55.79	-15.13	AVG	P
3	0.4520	35.45	10.31	45.76	56.84	-11.08	QP	P
4 *	0.4520	30.33	10.31	40.64	46.84	-6.20	AVG	P
5	2.4530	20.73	10.45	31.18	56.00	-24.82	QP	P
6	2.4530	16.71	10.45	27.16	46.00	-18.84	AVG	P
7	5.6359	14.83	10.48	25.31	60.00	-34.69	QP	P
8	5.6359	8.79	10.48	19.27	50.00	-30.73	AVG	P
9	9.0629	21.51	10.58	32.09	60.00	-27.91	QP	P
10	9.0629	15.71	10.58	26.29	50.00	-23.71	AVG	P
11	17.9500	16.22	10.79	27.01	60.00	-32.99	QP	P
12	17.9500	9.95	10.79	20.74	50.00	-29.26	AVG	P

Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor



4. Radiated Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.



4.2. Test Setup

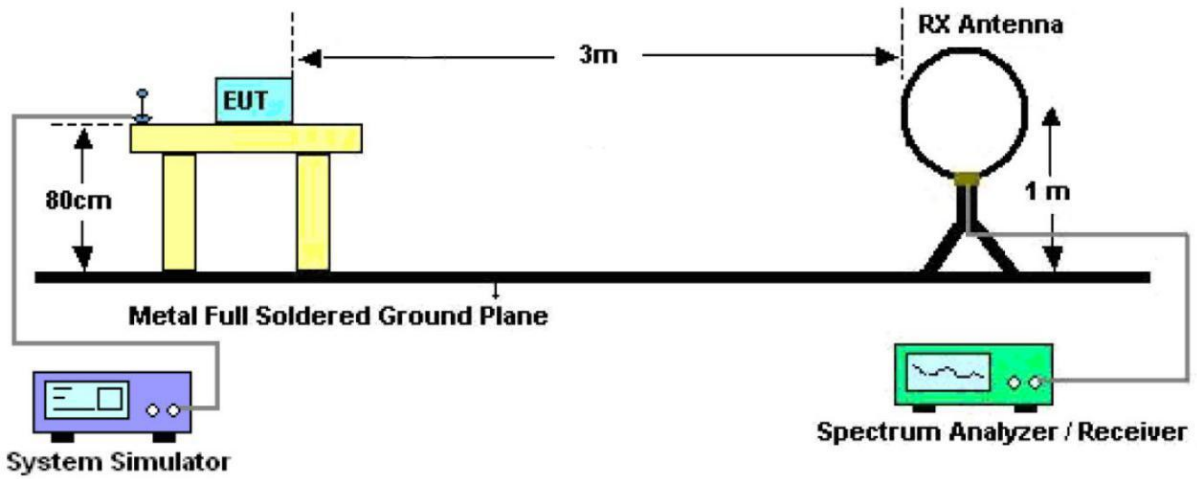


Figure 1. Below 30MHz

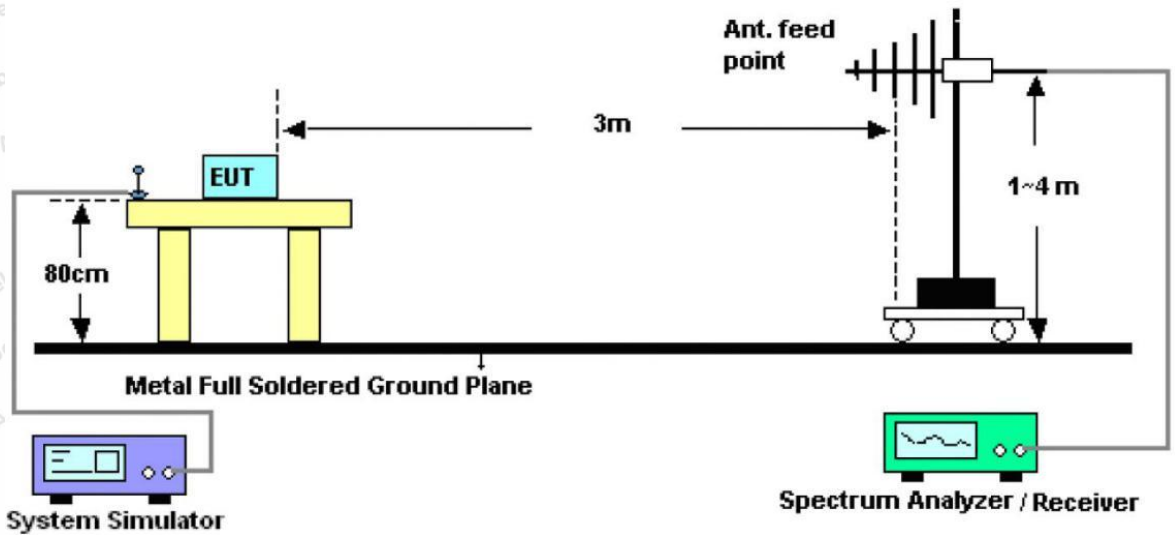


Figure 2. 30MHz to 1GHz



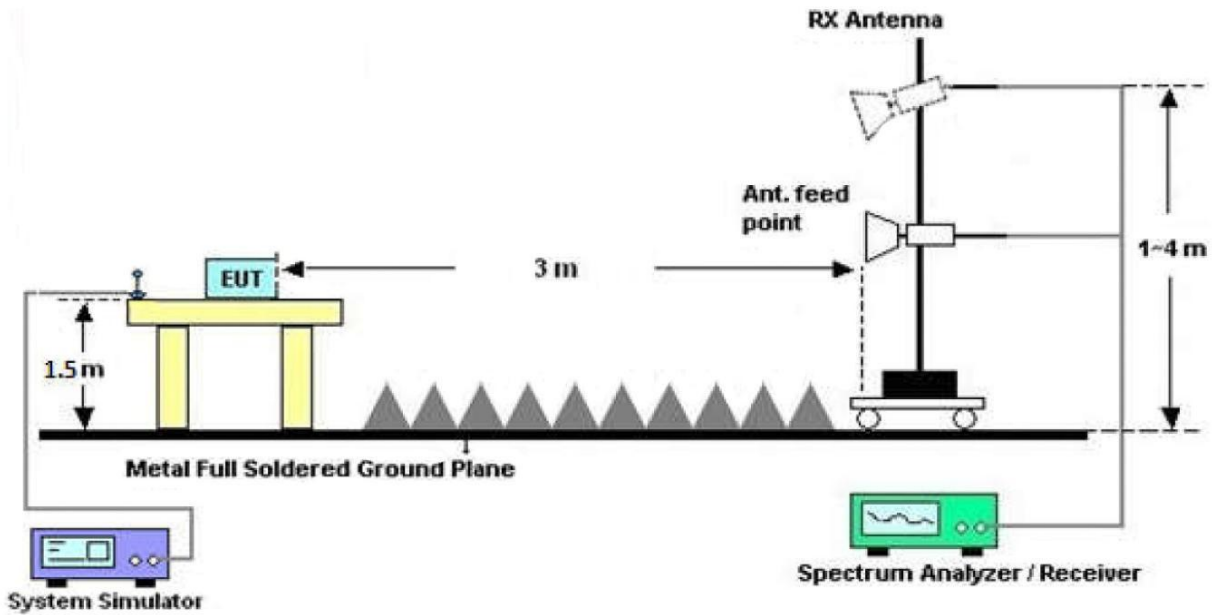


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.



For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector = Quasi-Peak, Trace mode = Max hold, Sweep = auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector = Peak, Trace mode = Max hold, Sweep = auto couple.

RBW = 1MHz, VBW = 10Hz, Detector = Average, Trace mode = Max hold, Sweep = auto couple.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

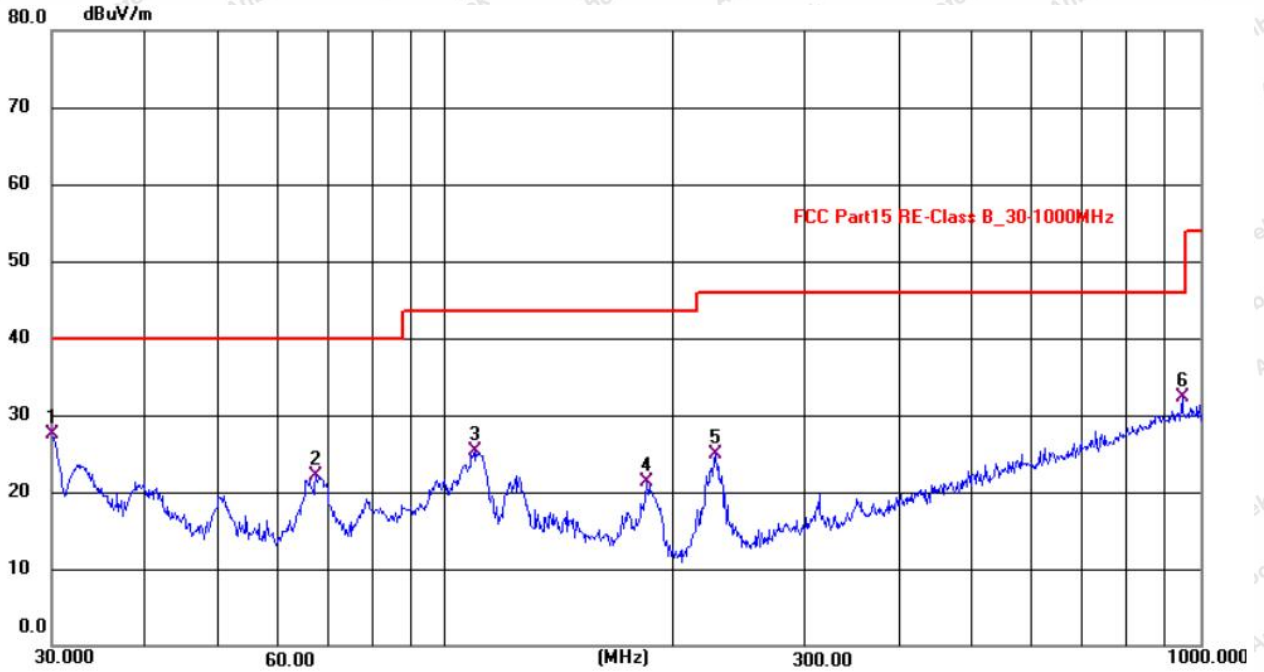
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all the modes, only the worst case is recorded in the report.



Test Results (30~1000MHz)

Test Mode: Low CH (2402MHz)
 Power Source: AC 120V, 60Hz for adapter
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 22°C/50%RH



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	30.0526	43.94	-16.43	27.51	40.00	-12.49	QP
2	67.3437	39.24	-17.09	22.15	40.00	-17.85	QP
3	109.4500	43.04	-17.67	25.37	43.50	-18.13	QP
4	185.0405	39.08	-17.82	21.26	43.50	-22.24	QP
5	227.7306	41.82	-16.98	24.84	46.00	-21.16	QP
6	948.4284	34.17	-1.83	32.34	46.00	-13.66	QP

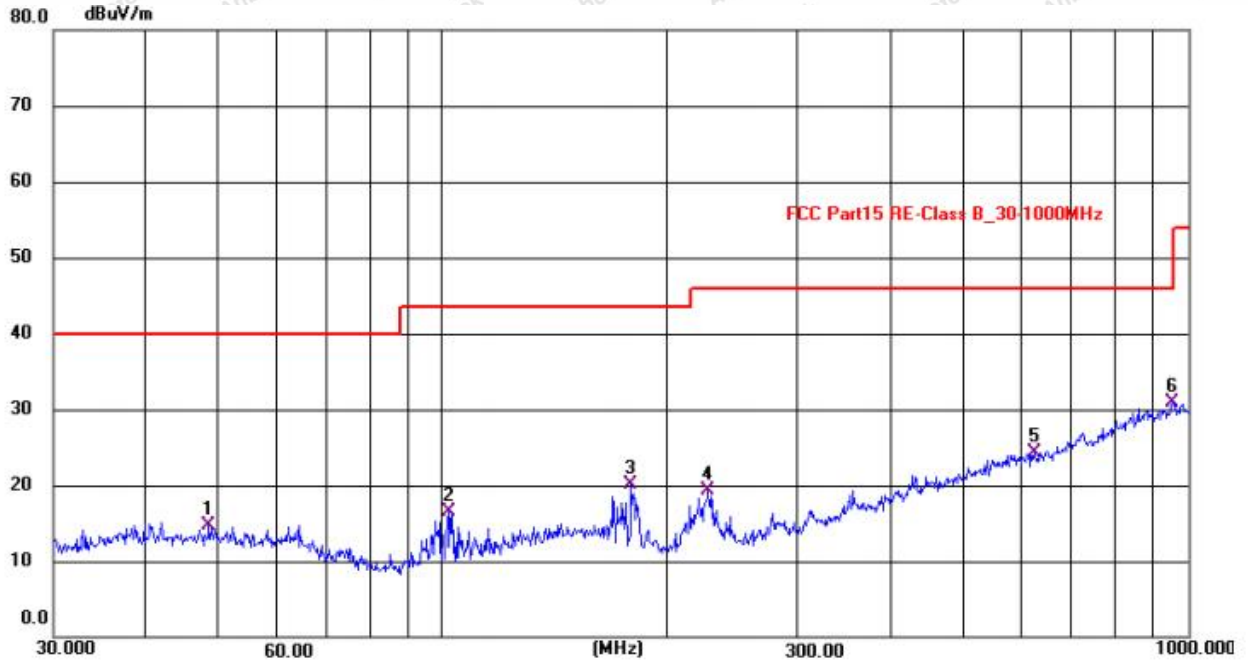
Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor



Test Results (30~1000MHz)

Test Mode: Low CH (2402MHz)
 Power Source: AC 120V, 60Hz for adapter
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 22°C/50%RH



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	48.5611	29.52	-14.84	14.68	40.00	-25.32	QP
2	101.8226	34.68	-18.26	16.42	43.50	-27.08	QP
3	178.9464	37.72	-17.52	20.20	43.50	-23.30	QP
4	227.2917	36.41	-17.02	19.39	46.00	-26.61	QP
5	621.0362	31.41	-7.14	24.27	46.00	-21.73	QP
6 *	953.4300	32.72	-1.79	30.93	46.00	-15.07	QP

Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor



Test Results (1GHz-25GHz)

2402MHz									
2402	97.48	26.36	2.76	51.45	75.15	94.00	-18.85	Average	Vertical
2402	117.29	26.36	2.76	51.45	94.96	114.00	-19.04	peak	Vertical
4804	65.47	27.41	3.08	52.16	43.80	54.00	-10.20	Average	Vertical
4804	79.35	27.41	3.08	52.16	57.68	74.00	-16.32	peak	Vertical
7206	62.59	31.25	4.33	51.74	46.43	54.00	-7.57	Average	Vertical
7206	79.35	31.25	4.33	51.74	63.19	74.00	-10.81	peak	Vertical
2402	107.27	26.67	2.76	51.45	85.25	94.00	-8.75	Average	Horizontal
2402	125.44	26.67	2.76	51.45	103.42	114.00	-10.58	peak	Horizontal
4804	59.47	27.41	3.08	52.16	37.80	54.00	-16.20	Average	Horizontal
4804	74.18	27.41	3.08	52.16	52.51	74.00	-21.49	peak	Horizontal
7206	60.35	31.25	4.33	51.74	44.19	54.00	-9.81	Average	Horizontal
7206	78.23	31.25	4.33	51.74	62.07	74.00	-11.93	peak	Horizontal
2440MHz									
2440	97.77	26.76	2.79	51.67	75.65	94.00	-18.35	Average	Vertical
2440	126.88	26.76	2.79	51.67	104.76	114.00	-9.24	peak	Vertical
4880	66.88	27.47	3.12	52.11	45.36	54.00	-8.64	Average	Vertical
4880	75.29	27.47	3.12	52.11	53.77	74.00	-20.23	peak	Vertical
7320	60.25	31.34	4.37	51.77	44.19	54.00	-9.81	Average	Vertical
7320	75.99	31.34	4.37	51.77	59.93	74.00	-14.07	peak	Vertical
2440	102.25	26.23	2.56	51.34	79.70	94.00	-14.30	Average	Horizontal
2440	122.58	26.23	2.56	51.34	100.03	114.00	-13.97	peak	Horizontal
4880	64.82	32.11	3.12	52.11	47.94	54.00	-6.06	Average	Horizontal
4880	75.29	32.11	3.12	52.11	58.41	74.00	-15.59	peak	Horizontal
7320	69.19	24.33	4.37	51.77	46.12	54.00	-7.88	Average	Horizontal
7320	76.53	24.33	4.37	51.77	53.46	74.00	-20.54	peak	Horizontal
2480MHz									
2480	106.36	26.95	2.83	51.98	84.16	94.00	-9.84	Average	Vertical
2480	116.66	26.95	2.83	51.98	94.46	114.00	-19.54	peak	Vertical
4960	61.88	27.44	3.34	52.23	40.43	54.00	-13.57	Average	Vertical
4960	71.64	27.44	3.34	52.23	50.19	74.00	-23.81	peak	Vertical
7440	65.27	31.39	4.57	51.69	49.54	54.00	-4.46	Average	Vertical
7440	72.36	31.39	4.57	51.69	56.63	74.00	-17.37	peak	Vertical
2480	95.41	26.95	2.83	51.98	73.21	94.00	-20.79	Average	Horizontal
2480	121.22	26.95	2.83	51.98	99.02	114.00	-14.98	peak	Horizontal
4960	62.33	27.44	3.34	52.23	40.88	54.00	-13.12	Average	Horizontal
4960	74.18	27.44	3.34	52.23	52.73	74.00	-21.27	peak	Horizontal
7440	62.19	31.39	4.57	51.69	46.46	54.00	-7.54	Average	Horizontal
7440	77.21	31.39	4.57	51.69	61.48	74.00	-12.52	peak	Horizontal

Remark:

1.Result =Reading + Factor

2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Radiated Band Edge:

Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Antenna Pol.	Detector
2390	36.58	7.38	43.96	54	-10.04	H	Peak
2400	34.19	7.41	41.6	54	-12.4	V	Peak
2390	58.64	7.38	66.02	74	-7.98	H	AVG
2400	56.66	7.41	64.07	74	-9.93	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Antenna Pol.	Detector
2483.5	35.18	7.44	42.62	54	-11.38	H	Peak
2500	36.67	7.49	44.16	54	-9.84	V	Peak
2483.5	54.18	7.44	61.62	74	-12.38	H	AVG
2500	53.27	7.49	60.76	74	-13.24	V	AVG

Remark:

1. Level = Reading + Factor

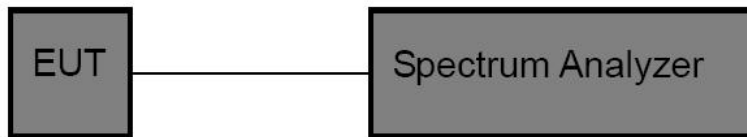


5. 20dB Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.215(c)
Test Limit	N/A

5.2. Test Setup



5.3. Test Procedure

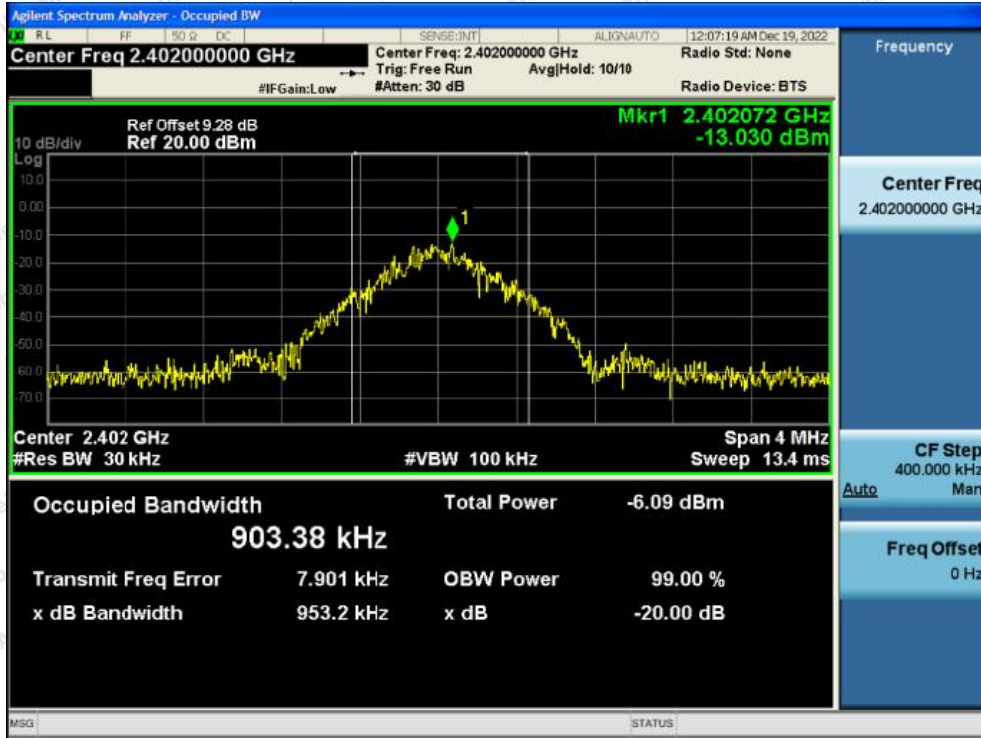
1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
 - RBW = 30kHz, VBW \geq 3*RBW =100kHz,
 - Detector= Average
 - Trace mode= Max hold.
 - Sweep- auto couple.
4. Mark the peak frequency and -20dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

5.4. Test Data

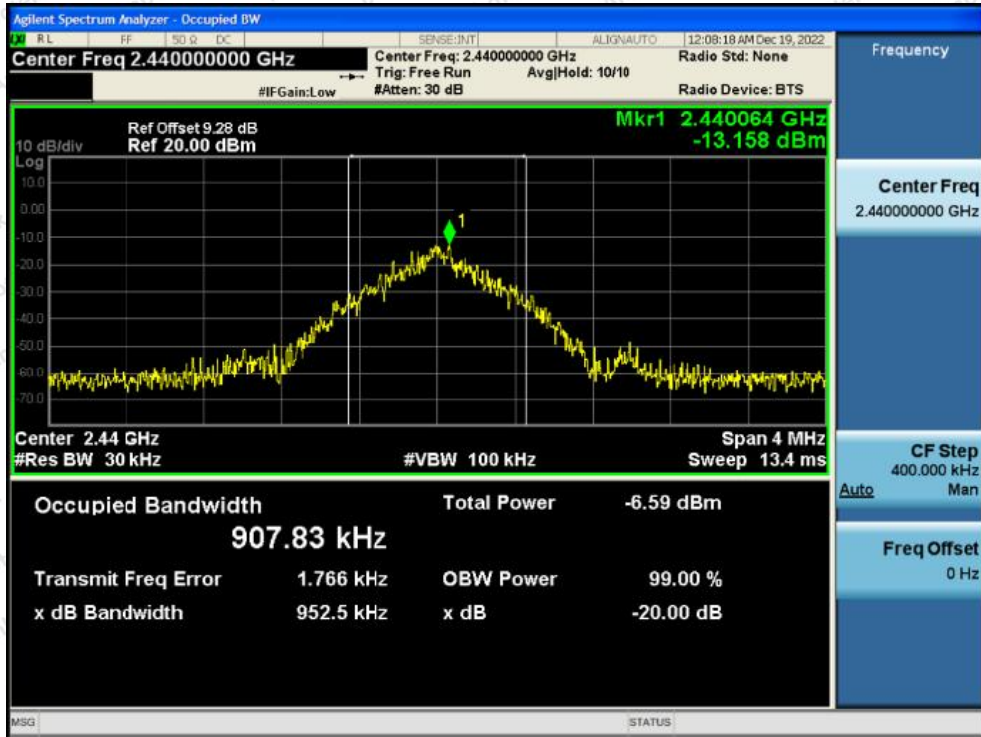
Test Item	: 20dB Bandwidth	Test Mode	: Mode 1
Test Voltage	: AC 120V, 60Hz for adapter	Temperature	: 22.4℃
Test Result	: PASS	Humidity	: 55%RH

Channel	Bandwidth (MHz)	Result
Low	0.953	PASS
Middle	0.952	PASS
High	0.964	PASS





Low Channel



Mid Channel





High Channel



6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	1) 15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.2. Antenna Connecteds Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

