

FCC Test Report

Client Name : Shenzhen Lindo Technology Co.,Ltd

Client Address : Room 203, Building 1,1970 Science and Technology Park, Minzhi Community, Minzhi Street, Longhua District, Shenzhen, 518000, China

Product Name : Dual-Cam Video doorbell

Report Date : Sept. 21, 2022

Shenzhen Anbotech Compliance Laboratory Limited



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TEST REPORT

Applicant : Shenzhen Lindo Technology Co.,Ltd
Manufacturer : Shenzhen Cmaeraking Technology Co.,LTD
Product Name : Dual-Cam Video doorbell
Model No. : LVD01
Trade Mark : N.A.
Rating(s) : Input1: 8-24V~0.05A (from Doorbell Wires)
Input2: 5V= 1.3A (from USB-C Charger)
Battery capacity: DC 3.69V, 4700mAh

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

Aug. 15, 2022

Date of Test

Aug. 15 ~ Sept. 09, 2022

Prepared by

Nian Xiu Chen

(Nianxiu Chen)

Approved & Authorized Signer

Kingkong Jin

(Kingkong Jin)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Sept. 21, 2022



1. General Information

1.1. Client Information

Applicant	:	Shenzhen Lindo Technology Co.,Ltd
Address	:	Room 203, Building 1,1970 Science and Technology Park, Minzhi Community, Minzhi Street, Longhua District, Shenzhen, 518000, China
Manufacturer	:	Shenzhen Cmaeraking Technology Co.,LTD
Address	:	RM602, Ogilvy Building, No. 1, Gaoxin South 7th Road, Nanshan, Shenzhen, China
Factory	:	Shenzhen Cmaeraking Technology Co.,LTD
Address	:	CMK Electronics, Baotunl Industrial Zone, Houjie, Dongguan, Guangdong, China

1.2. Description of Device (EUT)

Product Name	:	Dual-Cam Video doorbell
Model No.	:	LVD01
Trade Mark	:	N.A.
Test Power Supply	:	AC 120V, 60Hz for adapter/ DC 3.69V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A

RF Specification

Operation Frequency	:	5730~5870MHz
Number of Channel	:	15 Channels
Modulation Type	:	GFSK
Antenna Type	:	FPC Antenna
Antenna Gain(Peak)	:	2.83 dBi

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	M/N: A2023 Input: AC 100-240V, 0.7A, 50-60Hz USB1 Output: DC 5V, 2.4A USB2 Output: DC 5V, 2.4A

1.4. Description of Test Configuration

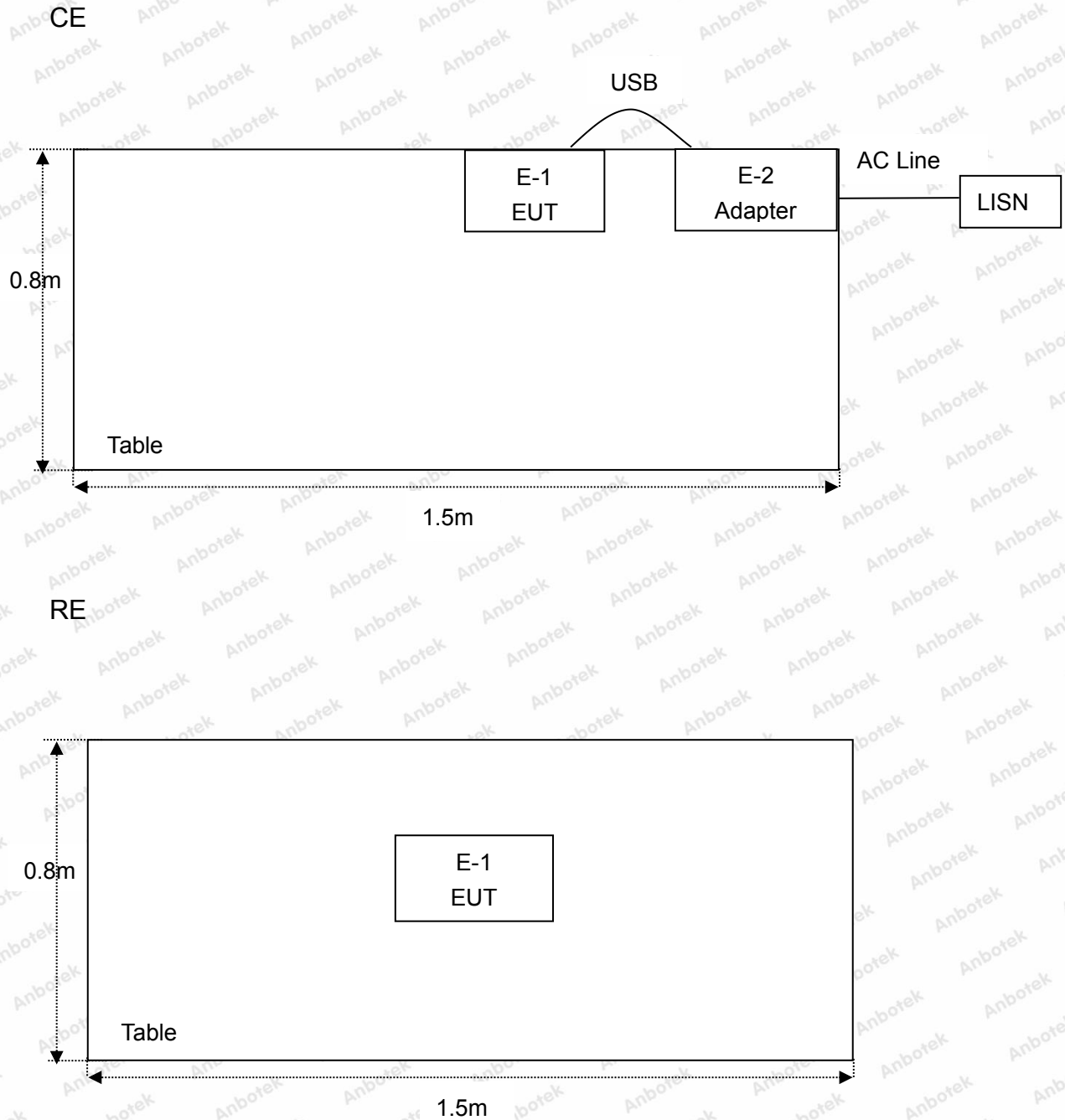
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
01	5730	06	5780	11	5830
02	5740	07	5790	12	5840
03	5750	08	5800	13	5850
04	5760	09	5810	14	5860
05	5770	10	5820	15	5870

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 01, 08 and 15.



1.5. Description of Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul 05, 2022	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 22, 2021	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 22, 2021	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2021	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 22, 2021	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Oct. 22, 2021	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Oct. 22, 2021	2 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 22, 2021	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 22, 2021	2 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Oct. 22, 2021	2 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 22, 2021	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Oct. 22, 2021	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Oct. 22, 2021	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Oct. 22, 2021	1 Year
16.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 22, 2021	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 22, 2021	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 22, 2021	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2021	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 22, 2021	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 Anbotech 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 Anbotech 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 Anbotech 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.		



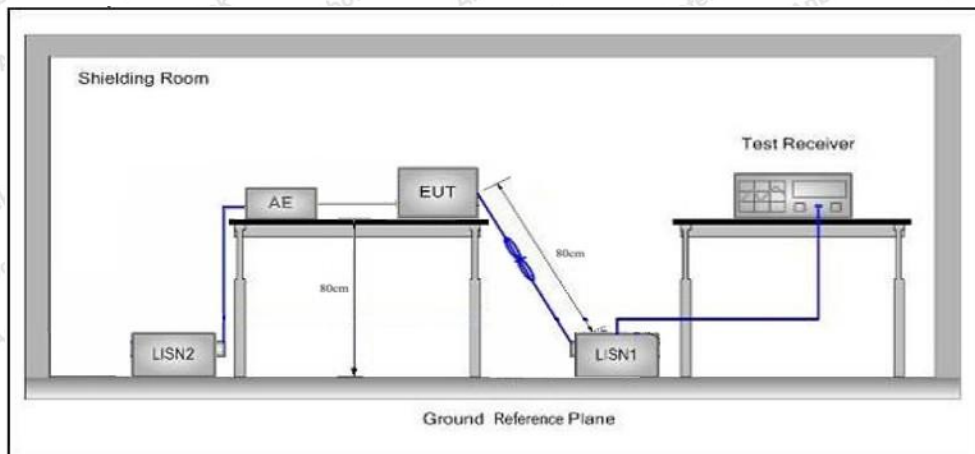
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	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, and found the High CH (5870MHz) which is the worst case, only the worst case is recorded in the report.

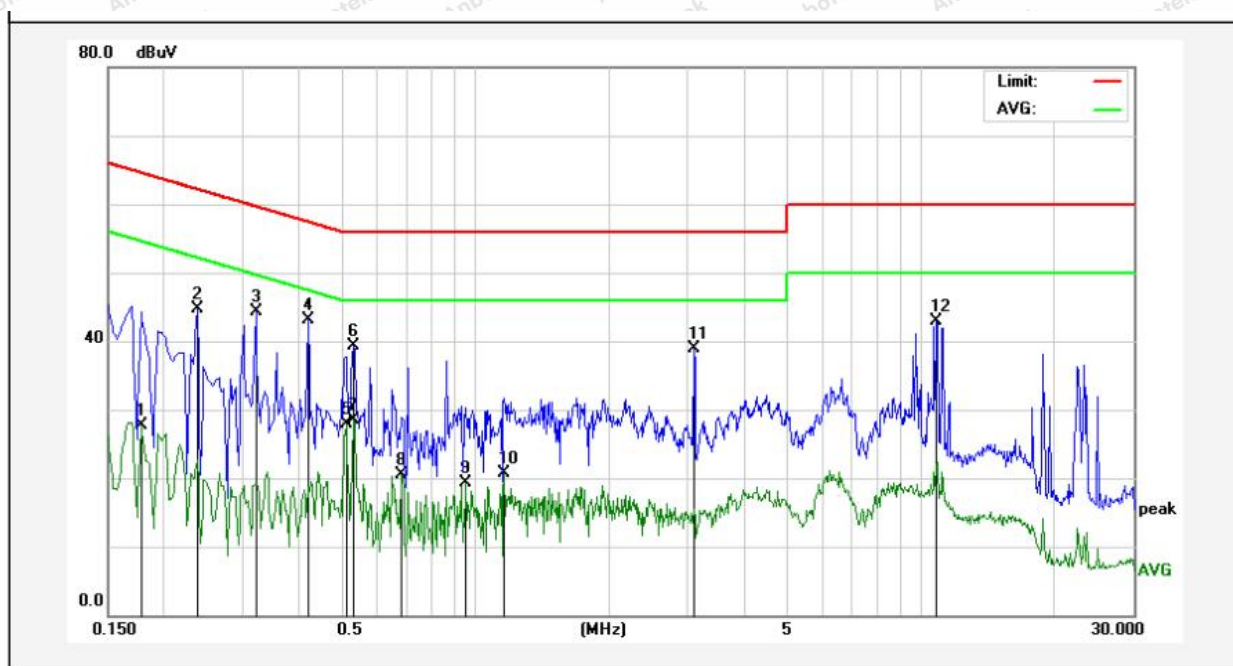
AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.

Please to see the following pages.



Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: High CH (5870MHz)
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Temp.(°C)/Hum.(%RH): 22.8°C/48%RH

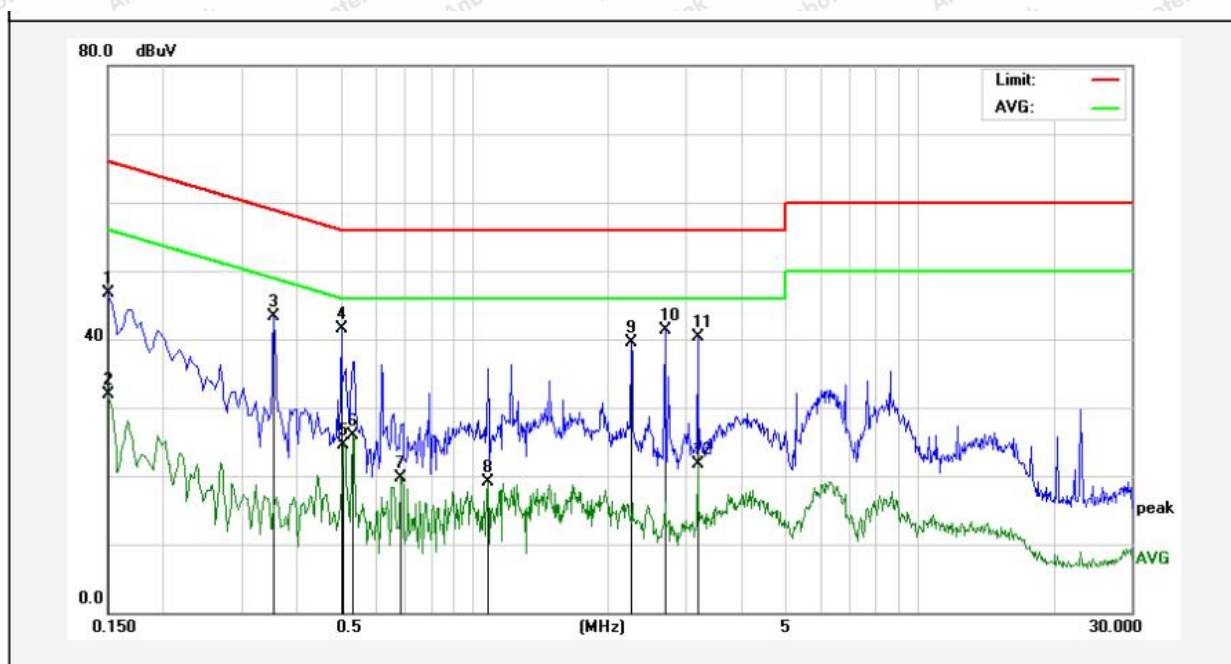


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1780	18.00	9.71	27.71	54.57	-26.86	AVG	
2	0.2380	34.99	9.71	44.70	62.16	-17.46	QP	
3	0.3220	34.57	9.73	44.30	59.65	-15.35	QP	
4	0.4220	33.48	9.72	43.20	57.41	-14.21	QP	
5	0.5140	18.12	9.76	27.88	46.00	-18.12	AVG	
6	0.5340	29.59	9.76	39.35	56.00	-16.65	QP	
7	0.5340	18.70	9.76	28.46	46.00	-17.54	AVG	
8	0.6860	10.75	9.75	20.50	46.00	-25.50	AVG	
9	0.9540	9.56	9.74	19.30	46.00	-26.70	AVG	
10	1.1620	10.87	9.74	20.61	46.00	-25.39	AVG	
11	3.1020	29.15	9.73	38.88	56.00	-17.12	QP	
12	10.8460	33.01	9.86	42.87	60.00	-17.13	QP	



Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: High CH (5870MHz)
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Temp.(°C)/Hum.(%RH): 22.8°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	37.00	9.69	46.69	65.99	-19.30	QP	
2	0.1500	22.31	9.69	32.00	55.99	-23.99	AVG	
3	0.3540	33.55	9.72	43.27	58.87	-15.60	QP	
4	0.5020	31.66	9.76	41.42	56.00	-14.58	QP	
5	0.5100	14.69	9.76	24.45	46.00	-21.55	AVG	
6	0.5340	16.08	9.76	25.84	46.00	-20.16	AVG	
7	0.6860	9.93	9.75	19.68	46.00	-26.32	AVG	
8	1.0740	9.30	9.74	19.04	46.00	-26.96	AVG	
9	2.2580	29.78	9.72	39.50	56.00	-16.50	QP	
10	2.6900	31.50	9.73	41.23	56.00	-14.77	QP	
11	3.1820	30.53	9.73	40.26	56.00	-15.74	QP	
12	3.1820	12.00	9.73	21.73	46.00	-24.27	AVG	



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.

Test Standard	FCC Part15 C Section 15.249					
Test Limit	Frequency (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	5725~5875	50	-	114.0	Peak	3
	5725~5875	50	-	94.0	Average	3
	5725~5875	-	500	74.0	Peak	3
	5725~5875	-	500	54.0	Average	3

Remark:

(1) 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

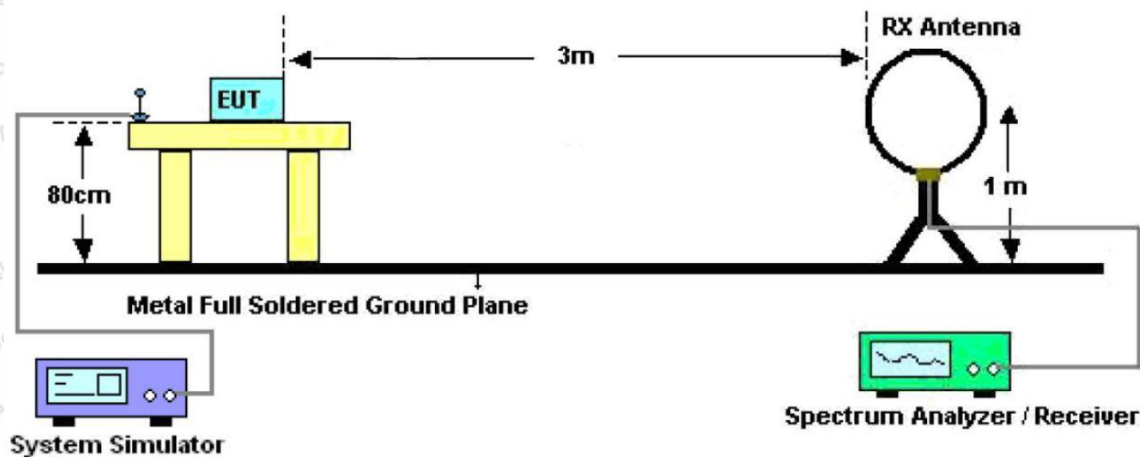


Figure 1. Below 30MHz

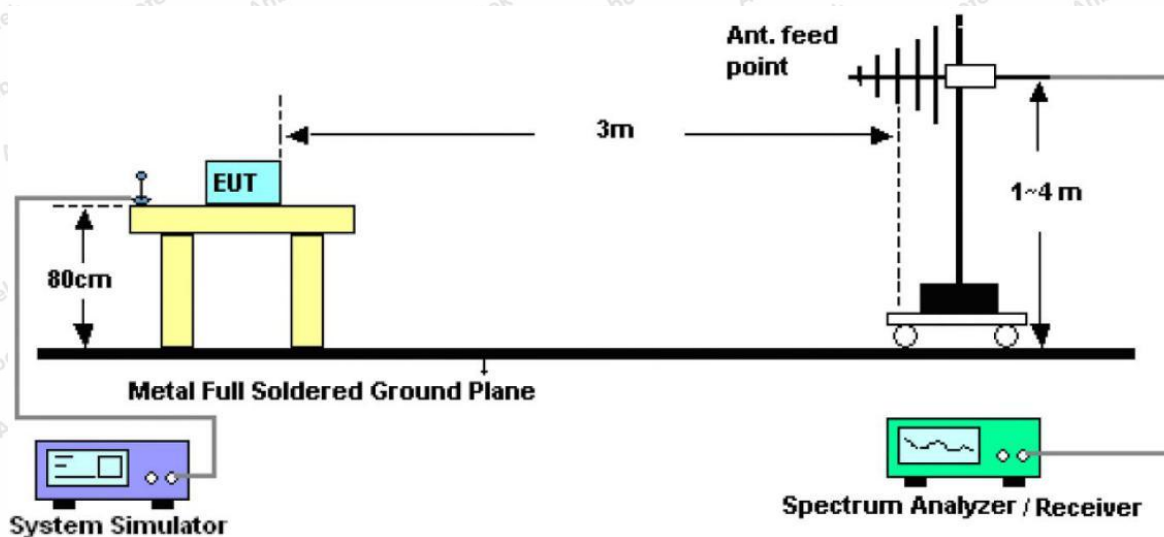


Figure 2. 30MHz to 1GHz



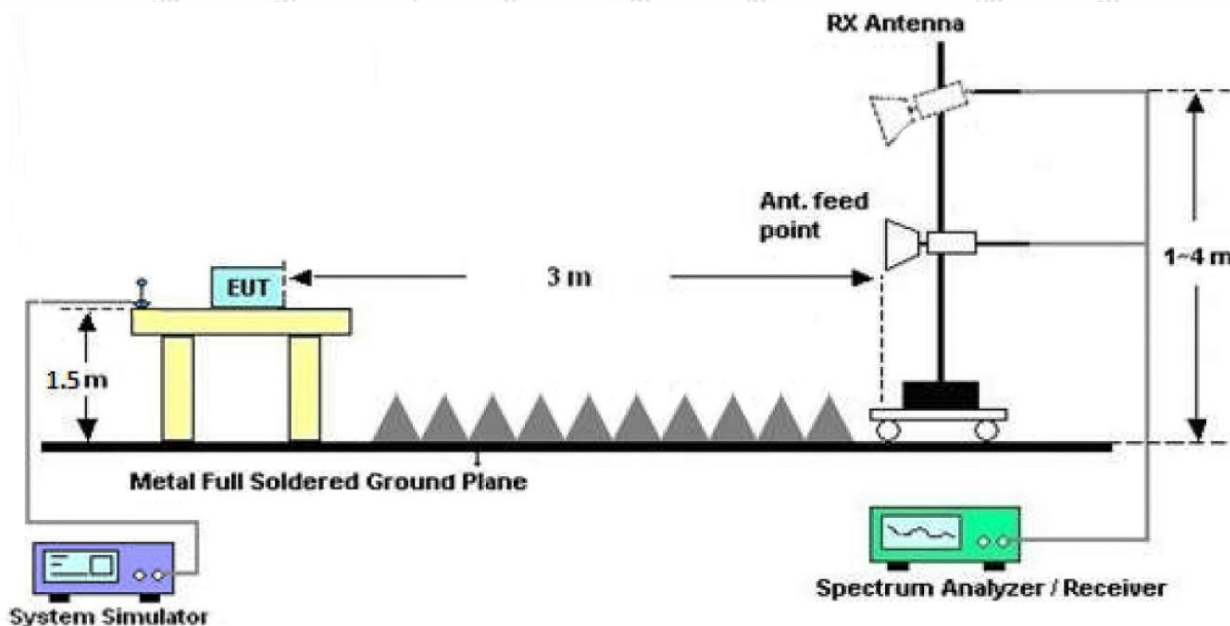


Figure 3. Above 1 GHz

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.

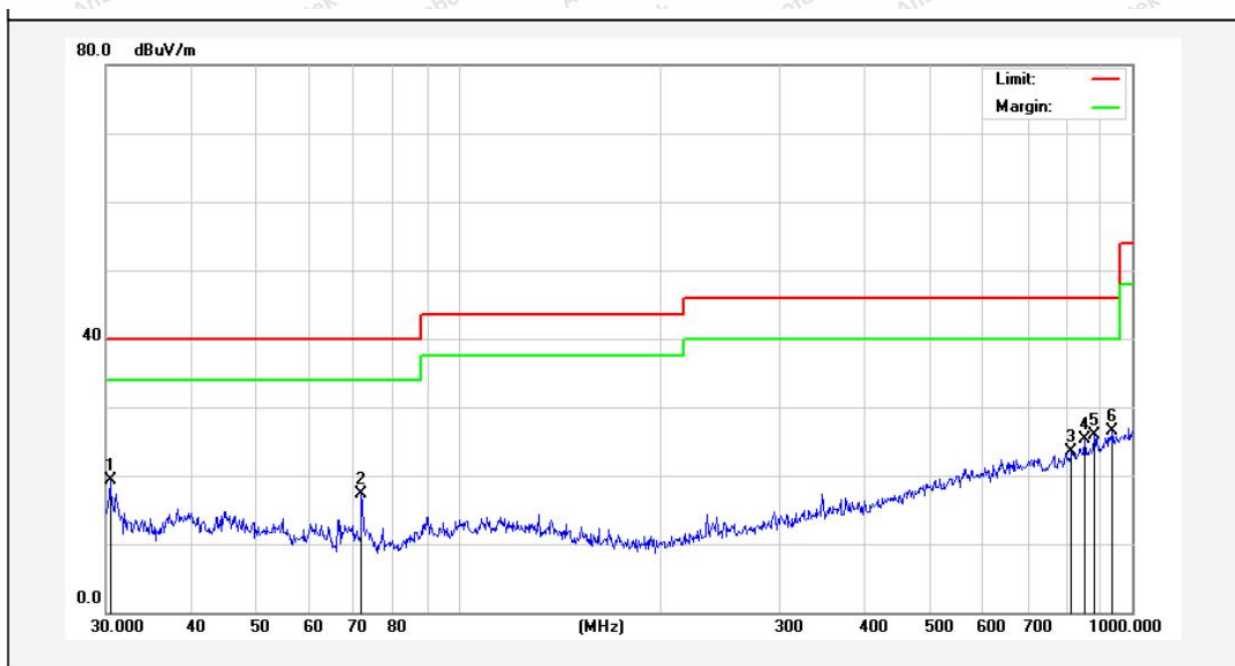
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all the modes, and found the High CH (5870MHz) which is the worst case, only the worst case is recorded in the report.



Test Results (30~1000MHz)

Test Mode: High CH (5870MHz)
Power Source: DC 3.69V battery inside
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 24.2°C/50%RH

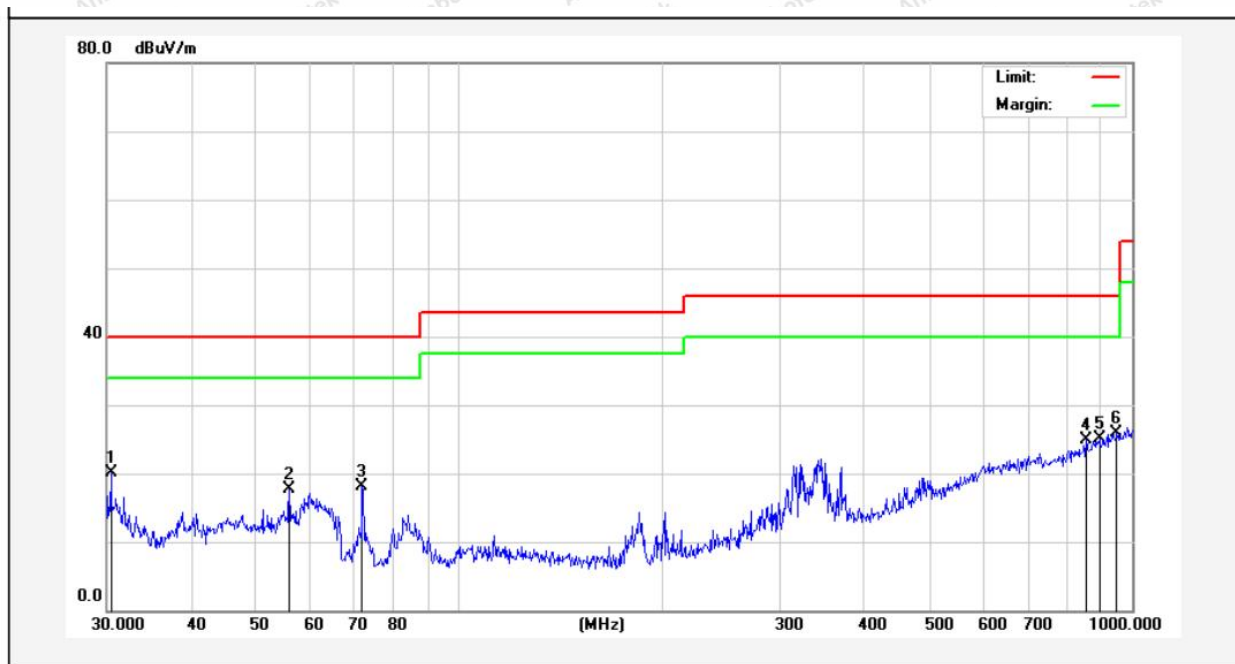


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.4238	39.33	-20.10	19.23	40.00	-20.77	QP			
2	71.8320	39.44	-22.16	17.28	40.00	-22.72	QP			
3	813.1115	31.65	-8.06	23.59	46.00	-22.41	QP			
4	851.0353	32.77	-7.46	25.31	46.00	-20.69	QP			
5	878.3214	32.59	-6.77	25.82	46.00	-20.18	QP			
6	935.5463	32.24	-5.81	26.43	46.00	-19.57	QP			



Test Results (30~1000MHz)

Test Mode: High CH (5870MHz)
Power Source: DC 3.69V battery inside
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 24.2°C/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.4238	37.92	-17.89	20.03	40.00	-19.97	QP			
2	56.0007	35.24	-17.60	17.64	40.00	-22.36	QP			
3	71.8320	38.04	-19.94	18.10	40.00	-21.90	QP			
4	854.0247	32.30	-7.39	24.91	46.00	-21.09	QP			
5	893.8567	31.56	-6.37	25.19	46.00	-20.81	QP			
6	948.7610	31.56	-5.65	25.91	46.00	-20.09	QP			



Test Results (1GHz-25GHz)

Test channel: Lowest

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5730.00	85.02	9.75	94.77	114.00	-19.23	Vertical
11460.00	29.36	15.27	44.63	74.00	-29.37	Vertical
17190.00	27.59	18.09	45.68	74.00	-28.32	Vertical
22920.00	28.71	23.76	52.47	74.00	-21.53	Vertical
28650.00	*			74.00		Vertical
34380.00	*			74.00		Vertical
5730.00	83.91	9.75	93.66	114.00	-20.34	Horizontal
11460.00	25.66	15.27	40.93	74.00	-33.07	Horizontal
17190.00	27.01	18.09	45.10	74.00	-28.90	Horizontal
22920.00	32.03	23.76	55.79	74.00	-18.21	Horizontal
28650.00	*			74.00		Horizontal
34380.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
5730.00	76.57	9.75	86.32	94.00	-7.68	Vertical
11460.00	15.55	15.27	30.82	54.00	-23.18	Vertical
17190.00	17.13	18.09	35.22	54.00	-18.78	Vertical
22920.00	22.80	23.76	46.56	54.00	-7.44	Vertical
28650.00	*			54.00		Vertical
34380.00	*			54.00		Vertical
5730.00	71.29	9.75	81.04	94.00	-12.96	Horizontal
11460.00	18.36	15.27	33.63	54.00	-20.37	Horizontal
17190.00	19.33	18.09	37.42	54.00	-16.58	Horizontal
22920.00	17.71	23.76	41.47	54.00	-12.53	Horizontal
28650.00	*			54.00		Horizontal
34380.00	*			54.00		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.



Test Results (1GHz-25GHz)

Test channel: Middle						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5800.00	82.93	9.75	92.68	114.00	-21.32	Vertical
11600.00	30.66	15.27	45.93	74.00	-28.07	Vertical
17400.00	33.13	18.09	51.22	74.00	-22.78	Vertical
23200.00	31.81	23.76	55.57	74.00	-18.43	Vertical
29000.00	*			74.00		Vertical
34800.00	*			74.00		Vertical
5800.00	79.46	9.75	89.21	114.00	-24.79	Horizontal
11600.00	24.40	15.27	39.67	74.00	-34.33	Horizontal
17400.00	30.18	18.09	48.27	74.00	-25.73	Horizontal
23200.00	30.74	23.76	54.50	74.00	-19.50	Horizontal
29000.00	*			74.00		Horizontal
34800.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
5800.00	71.12	9.75	80.87	94.00	-13.13	Vertical
11600.00	18.30	15.27	33.57	54.00	-20.43	Vertical
17400.00	15.18	18.09	33.27	54.00	-20.73	Vertical
23200.00	16.31	23.76	40.07	54.00	-13.93	Vertical
29000.00	*			54.00		Vertical
34800.00	*			54.00		Vertical
5800.00	73.70	9.75	83.45	94.00	-10.55	Horizontal
11600.00	16.90	15.27	32.17	54.00	-21.83	Horizontal
17400.00	15.20	18.09	33.29	54.00	-20.71	Horizontal
23200.00	17.10	23.76	40.86	54.00	-13.14	Horizontal
29000.00	*			54.00		Horizontal
34800.00	*			54.00		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.



Test Results (1GHz-25GHz)

Test channel: Highest						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
5870.00	81.05	9.75	90.80	114.00	-23.20	Vertical
11740.00	28.56	15.27	43.83	74.00	-30.17	Vertical
17610.00	26.82	18.09	44.91	74.00	-29.09	Vertical
23480.00	33.13	23.76	56.89	74.00	-17.11	Vertical
29350.00	*			74.00		Vertical
35220.00	*			74.00		Vertical
5870.00	80.82	9.75	90.57	114.00	-23.43	Horizontal
11740.00	28.91	15.27	44.18	74.00	-29.82	Horizontal
17610.00	30.84	18.09	48.93	74.00	-25.07	Horizontal
23480.00	26.12	23.76	49.88	74.00	-24.12	Horizontal
29350.00	*			74.00		Horizontal
35220.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
5870.00	75.16	9.75	84.91	94.00	-9.09	Vertical
11740.00	14.47	15.27	29.74	54.00	-24.26	Vertical
17610.00	17.68	18.09	35.77	54.00	-18.23	Vertical
23480.00	14.69	23.76	38.45	54.00	-15.55	Vertical
29350.00	*			54.00		Vertical
35220.00	*			54.00		Vertical
5870.00	75.43	9.75	85.18	94.00	-8.82	Horizontal
11740.00	17.41	15.27	32.68	54.00	-21.32	Horizontal
17610.00	24.93	18.09	43.02	54.00	-10.98	Horizontal
23480.00	18.12	23.76	41.88	54.00	-12.12	Horizontal
29350.00	*			54.00		Horizontal
35220.00	*			54.00		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
5725.00	47.15	17.05	64.20	74.00	-9.80	H	Peak
5725.00	47.40	17.05	64.45	74.00	-9.55	V	Peak
5725.00	34.51	17.05	51.56	54.00	-2.44	H	AVG
5725.00	34.80	17.05	51.85	54.00	-2.15	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over Limit (dB)	Antenna Pol.	Detector
5875.00	46.91	17.21	64.12	74.00	-9.88	H	Peak
5875.00	48.26	17.21	65.47	74.00	-8.53	V	Peak
5875.00	34.82	17.21	52.03	54.00	-1.97	H	AVG
5875.00	33.20	17.21	50.41	54.00	-3.59	V	AVG

Remark:

1. Level = Reading + Factor

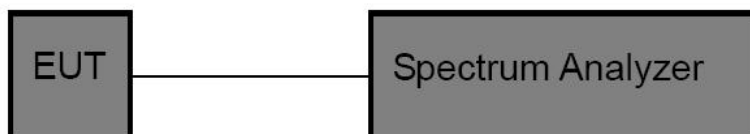


5. 20dB Bandwidth Test

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

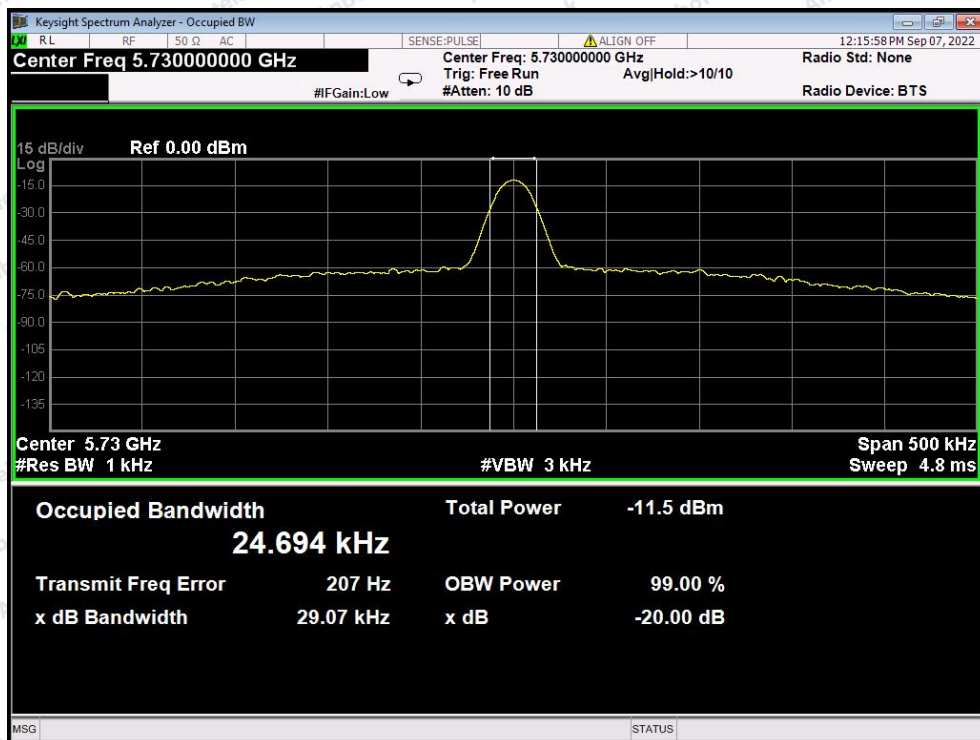
1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
RBW = 30kHz, VBW $\geq$ 3*RBW =100kHz,
Detector= Average
Trace mode= Max hold.
Sweep- 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

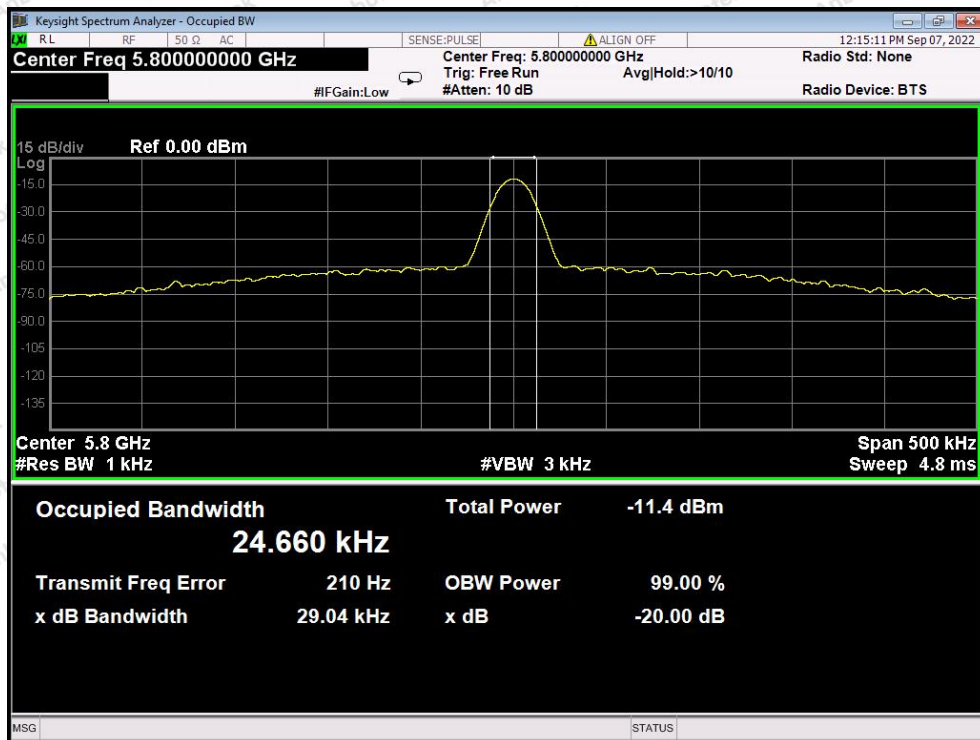
Test Item	: 20dB Bandwidth	Test Mode	: Mode 1
Test Voltage	: AC 120V, 60Hz for adapter	Temperature	: 22.4℃
Test Result	: PASS	Humidity	: 55%RH

Channel	Bandwidth (kHz)	Result
Low	24.694	PASS
Middle	24.660	PASS
High	24.750	PASS



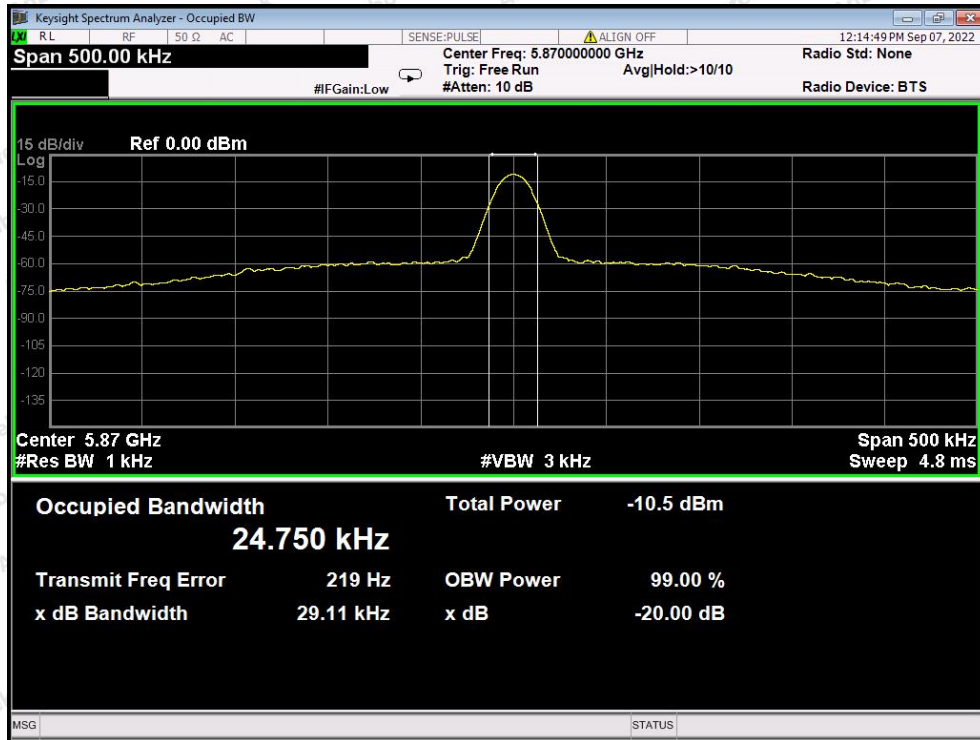


Low Channel



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 FPC Antenna which permanently attached, and the best case gain of the antenna is 2.83 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 -----

