

FCC Test Report

Report No. : 1818C50187912501

Applicant : SHENZHEN XINGBIAO ELECTRONIC
TECHNOLOGY CO LTD

Address : Floor1-4, Factory Building no.13, Antoshan
High-tech Industrial Park, Shaer Community,
Sha jing Street, Baoan District, Shenzhen,
Guangdong 518108 China

Product Name : Floral Mood Wall Light

Report Date : 2025-12-11



Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : SHENZHEN XINGBIAO ELECTRONIC TECHNOLOGY CO LTD
Manufacturer : SHENZHEN XINGBIAO ELECTRONIC TECHNOLOGY CO LTD
Product Name : Floral Mood Wall Light
Model No. : XBJHT-FMWL001

Trade Mark : 

Rating(s) : Input: AC 100~240V 50/60Hz
White LED: 13.5W 3000K, RGB LED: 18W
Finish: Matte white

Test Standard(s) : 47 CFR Part 15 Subpart C 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 47 CFR Part 15.249 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 2025-10-14

Date of Test 2025-10-14 to 2025-12-03

Prepared by



(Lene Chen)

Approved & Authorized Signer



(Hugo Chen)

Revision History

Report Version	Description	Issued Date
R00	Original Issue.	2025-12-11

1. General Information

1.1. Client Information

Applicant	:	SHENZHEN XINGBIAO ELECTRONIC TECHNOLOGY CO LTD
Address	:	Floor1-4, Factory Building no.13, Antoshan High-tech Industrial Park, Shaer Community, Sha jing Street, Baoan District, Shenzhen, Guangdong 518108 China
Manufacturer	:	SHENZHEN XINGBIAO ELECTRONIC TECHNOLOGY CO LTD
Address	:	Floor1-4, Factory Building no.13, Antoshan High-tech Industrial Park, Shaer Community, Sha jing Street, Baoan District, Shenzhen, Guangdong 518108 China
Factory	:	SHENZHEN XINGBIAO ELECTRONIC TECHNOLOGY CO LTD
Address	:	Floor1-4, Factory Building no.13, Antoshan High-tech Industrial Park, Shaer Community, Sha jing Street, Baoan District, Shenzhen, Guangdong 518108 China

1.2. Description of Device (EUT)

Product Name	:	Floral Mood Wall Light
Model No.	:	XBJHT-FMWL001
Trade Mark	:	
Test Power Supply	:	AC 120V, 60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Manufacturer: I.T.E.POWER SUPPLY Model: HJ-2402000 Input: 100-240V~50/60Hz, 1.2A Output: 24.0V=2.0A 48.0W
RF Specification		
Operation Frequency	:	2404~2480MHz
Number of Channel	:	40 Channels
Modulation Type	:	GFSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	-3.74dBi
Remark: 1) All of the RF specification are provided by customer. 2) 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

Title	Manufacturer	Model No.	Serial No.
/	/	/	/

1.4. Description of Test Configuration

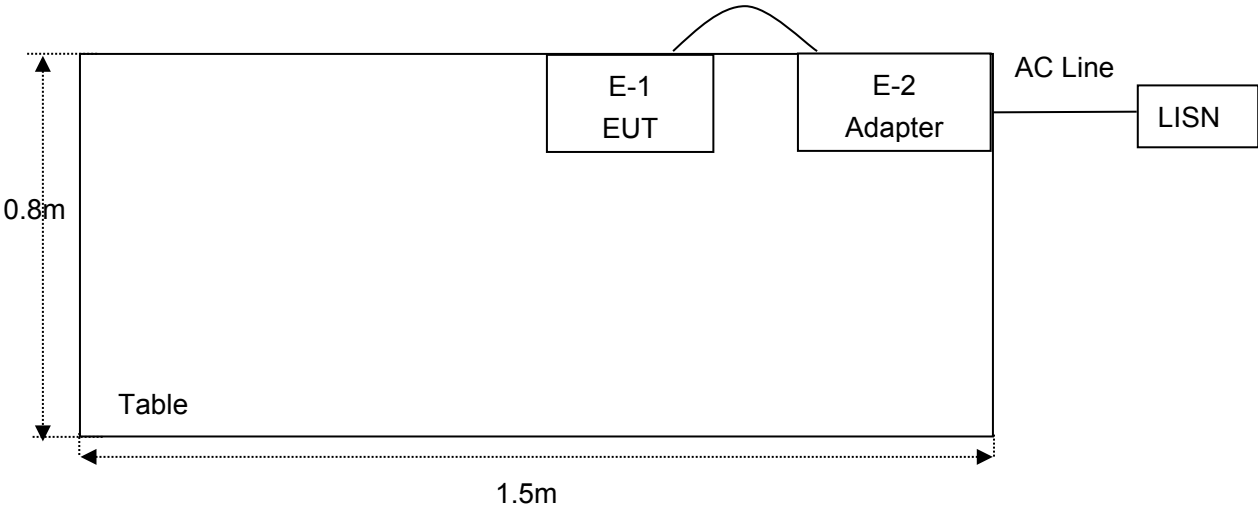
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Note:

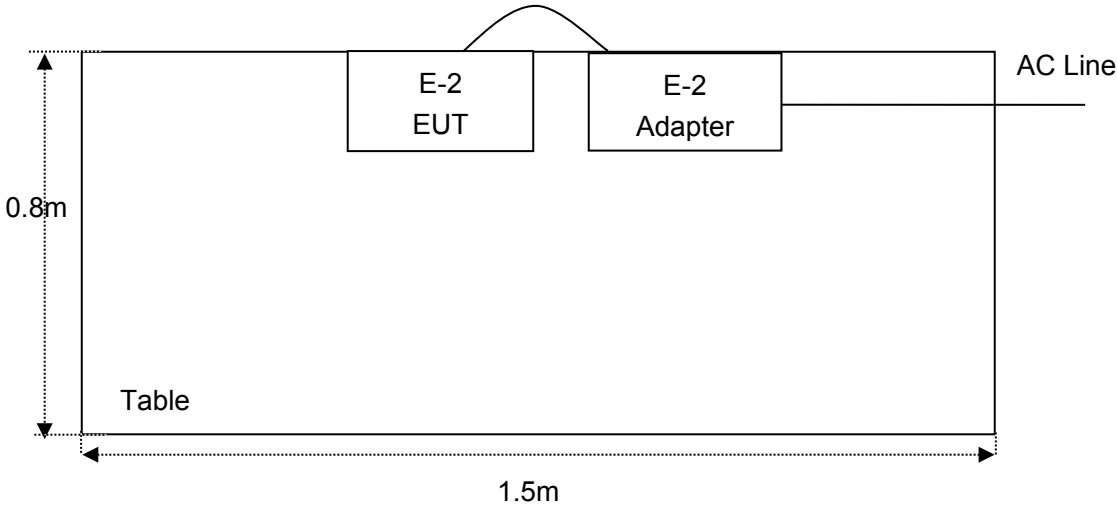
1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. EUT was tested with Channel 0, 19 and 39.

1.5. Description of Test Setup

CE



RE



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	2025-09-05	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00 1	2025-01-13	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2025-01-13	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2025-01-14	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	2025-09-05	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	2025-01-13	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2025-09-05	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2025-09-05	3 Year
9.	Loop Antenna(9K-30M)	Schwarzbeck	FMZB1519B	00053	2025-09-05	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	2024-01-22	3 Year
11.	Pre-amplifier	SONOMA	310N	186860	2025-01-14	1 Year
12.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	2025-09-05	1 Year
13.	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420647	2025-01-14	1 Year
14.	Signal Generator	Agilent	E4421B	MY41000743	2025-02-21	1 Year
15.	DC Power Supply	IVYTECH	IV3605	1804D360510	2025-09-05	1 Year
16.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	2025-10-10	1 Year
17.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2025-04-25	1 Year
18.	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	N/A	N/A
19.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
20.	RF Test software	Toscend	JS1120-3	N/A	N/A	N/A

1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.2dB
Occupied Bandwidth	925Hz
Radiated spurious emissions (Below 30MHz)	3.26dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.64dB 6G-18GHz: 4.82dB 18G-40GHz: 5.62dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.8. Description of Test Facility

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

FCC-Registration No.: 279531

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. 279531.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. Summary of Test Results

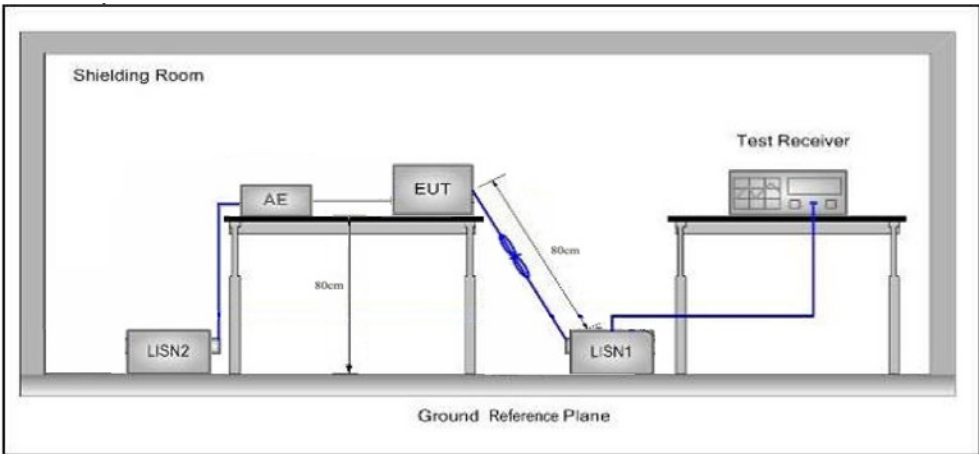
Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209/15.249	Radiated Emission	PASS
15.249(d)	Band Edge	PASS
15.215(c)	20dB Bandwidth	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		

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.

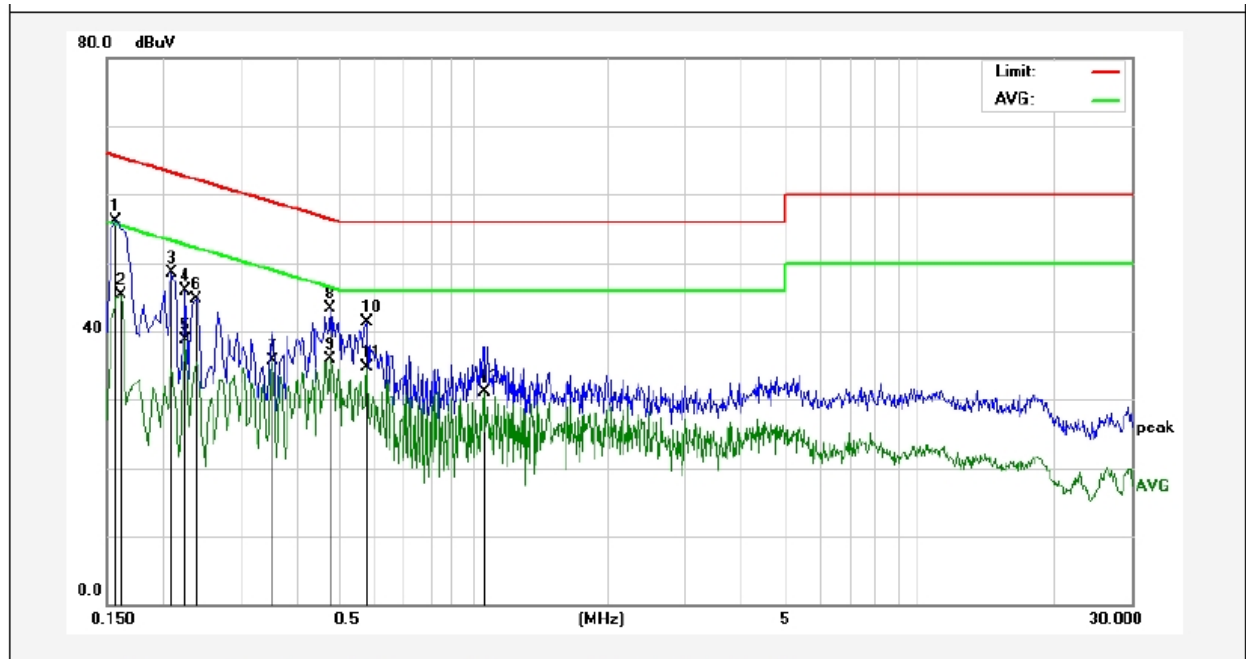
3.4. Test Data

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

Please to see the following pages.

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: Mid CH (2440MHz)
Test Specification: AC 120V, 60Hz for Adapter
Comment: Live Line
Temp.(°C)/Hum.(%RH): 24.2°C/49%RH

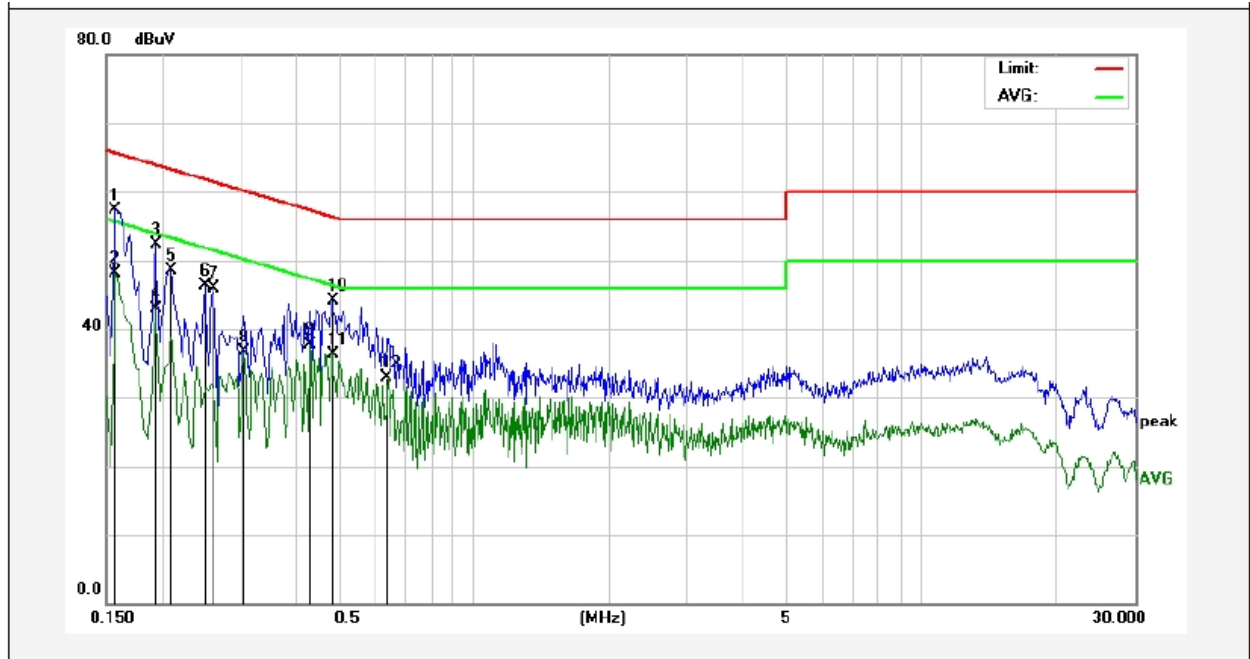


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	38.12	18.08	56.20	65.56	-9.36	QP	
2	0.1620	27.29	18.08	45.37	55.36	-9.99	AVG	
3	0.2100	30.40	18.08	48.48	63.20	-14.72	QP	
4	0.2260	27.83	18.09	45.92	62.59	-16.67	QP	
5	0.2260	20.64	18.09	38.73	52.59	-13.86	AVG	
6	0.2380	26.53	18.09	44.62	62.16	-17.54	QP	
7	0.3540	17.56	18.09	35.65	48.87	-13.22	AVG	
8	0.4780	25.27	18.11	43.38	56.37	-12.99	QP	
9	0.4780	17.71	18.11	35.82	46.37	-10.55	AVG	
10	0.5780	23.16	18.11	41.27	56.00	-14.73	QP	
11	0.5780	16.66	18.11	34.77	46.00	-11.23	AVG	
12	1.0580	13.00	18.11	31.11	46.00	-14.89	AVG	

Remark: Result=Reading+Factor Over Limit=Result-Limit

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: Mid CH (2440MHz)
Test Specification: AC 120V, 60Hz for Adapter
Comment: Neutral Line
Temp.(°C)/Hum.(%RH): 24.2°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	39.25	18.08	57.33	65.56	-8.23	QP	
2	0.1580	30.09	18.08	48.17	55.56	-7.39	AVG	
3	0.1940	34.30	18.08	52.38	63.86	-11.48	QP	
4	0.1940	24.73	18.08	42.81	53.86	-11.05	AVG	
5	0.2100	30.44	18.08	48.52	63.20	-14.68	QP	
6	0.2500	28.22	18.09	46.31	61.75	-15.44	QP	
7	0.2620	27.85	18.10	45.95	61.36	-15.41	QP	
8	0.3060	18.55	18.10	36.65	50.08	-13.43	AVG	
9	0.4300	19.63	18.09	37.72	47.25	-9.53	AVG	
10	0.4820	25.94	18.11	44.05	56.30	-12.25	QP	
11	0.4820	18.26	18.11	36.37	46.30	-9.93	AVG	
12	0.6419	14.80	18.11	32.91	46.00	-13.09	AVG	

Remark: Result=Reading+Factor Over Limit=Result-Limit

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)
	2400~2483.5	50	-	114.0	Peak	3
	2400~2483.5	50	-	94.0	Average	3
	2400~2483.5	-	500	74.0	Peak	3
	2400~2483.5	-	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

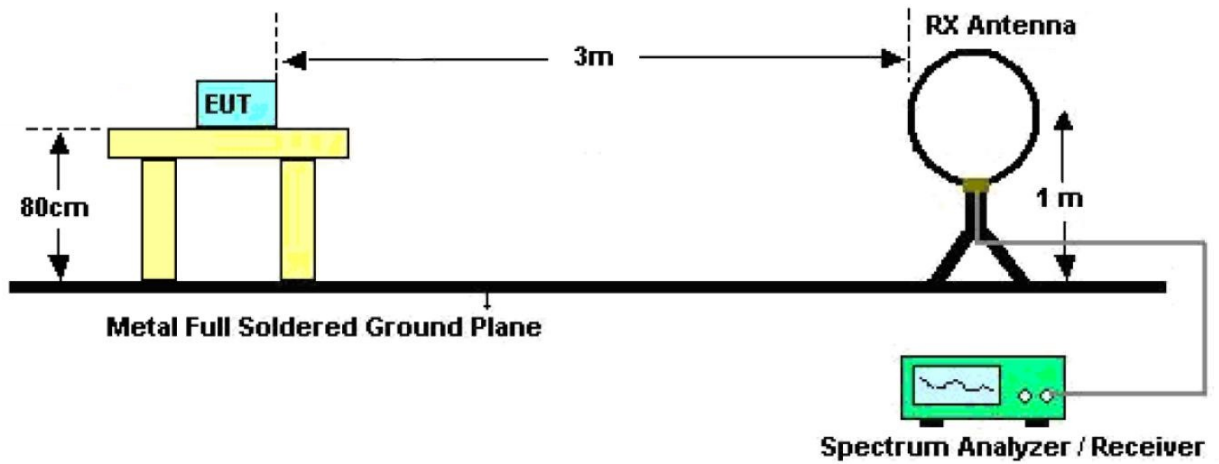


Figure 1. Below 30MHz

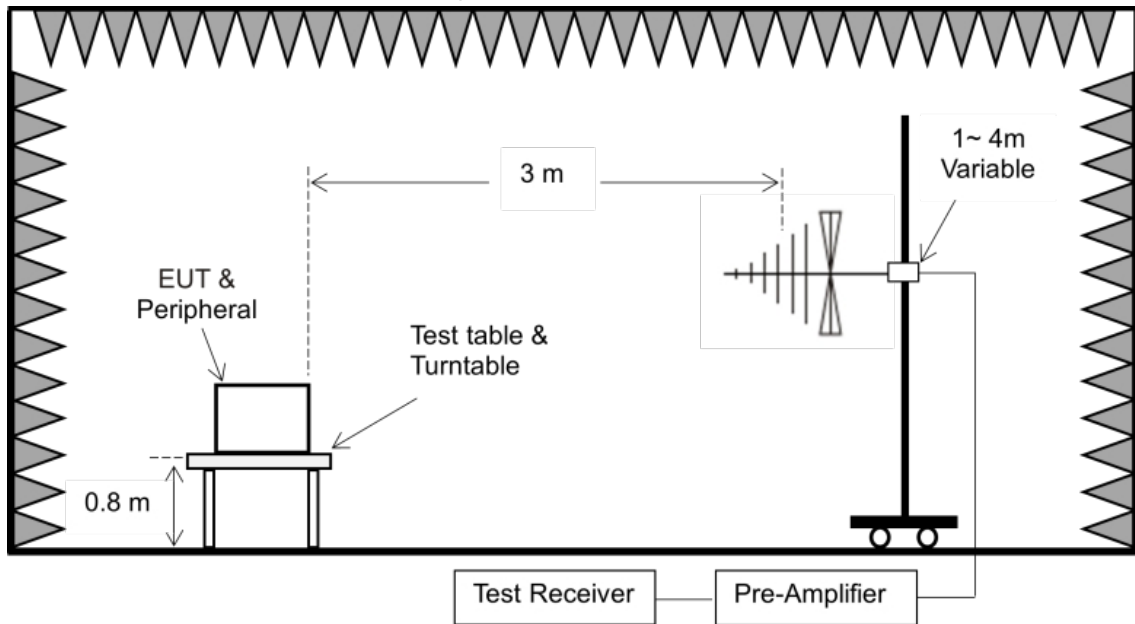


Figure 2. 30MHz to 1GHz

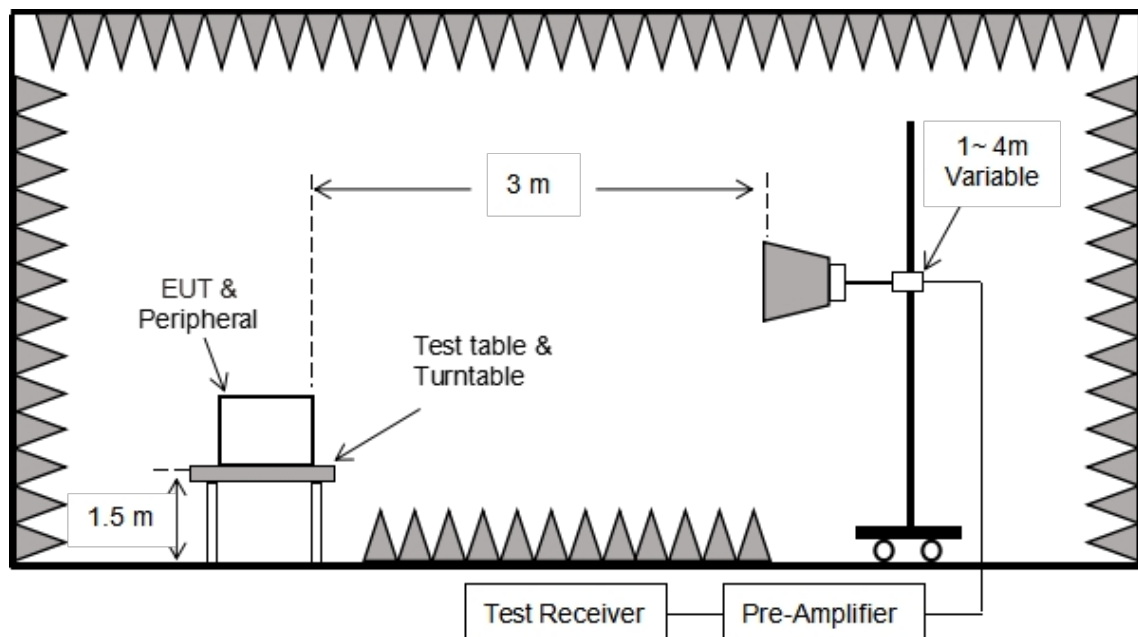


Figure 3. Above 1 GHz

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

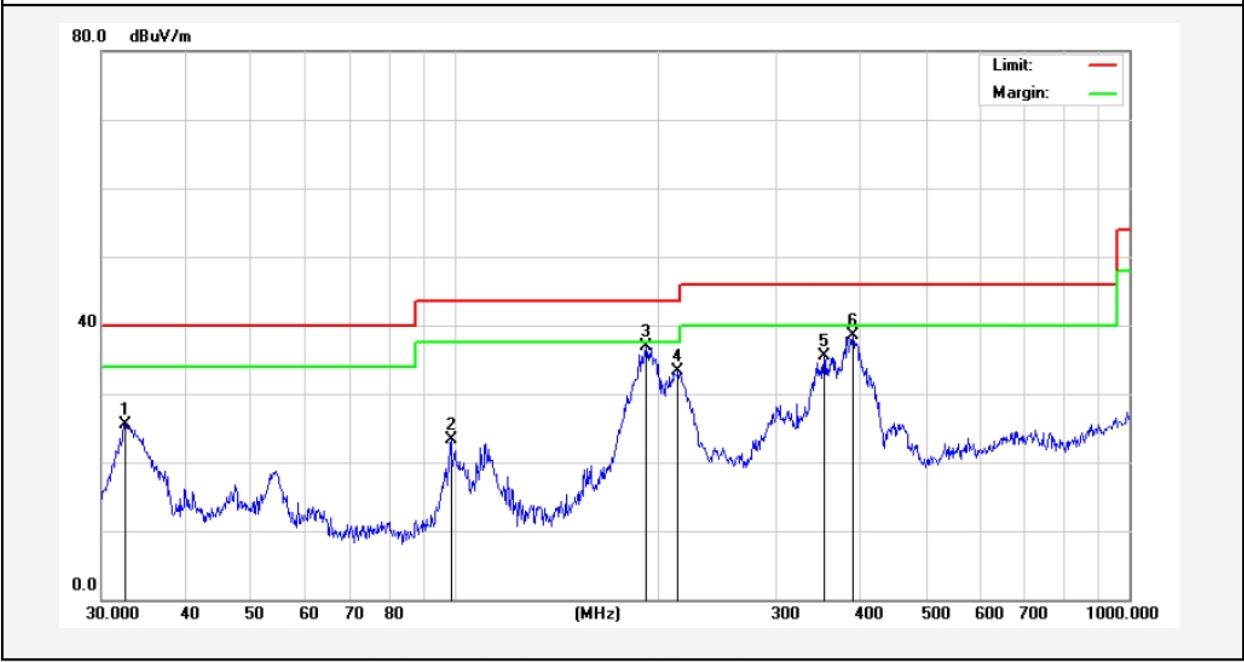
During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

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, only the worst case is recorded in the report.

Test Results (30~1000MHz)

Test Mode: Mid CH (2440MHz)
Power Source: AC 120V, 60Hz for Adapter
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 23.9°C/52%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	32.5198	44.71	-19.23	25.48	40.00	-14.52	QP	
2	98.8326	41.95	-18.72	23.23	43.50	-20.27	QP	
3	192.4186	57.55	-20.56	36.99	43.50	-6.51	QP	
4	214.5143	52.88	-19.61	33.27	43.50	-10.23	QP	
5	352.9433	50.85	-15.32	35.53	46.00	-10.47	QP	
6	389.3549	52.57	-14.08	38.49	46.00	-7.51	QP	

Remark: Result=Reading+Factor Over Limit=Result-Limit

Test Results (30~1000MHz)

Test Mode: Mid CH (2440MHz)
Power Source: AC 120V, 60Hz for Adapter
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 23.9°C/52%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	34.6385	50.25	-18.50	31.75	40.00	-8.25	QP	
2	52.2079	43.23	-17.48	25.75	40.00	-14.25	QP	
3	110.9571	51.04	-19.30	31.74	43.50	-11.76	QP	
4	191.0738	51.65	-20.47	31.18	43.50	-12.32	QP	
5	368.1116	43.42	-14.16	29.26	46.00	-16.74	QP	
6	390.7226	42.46	-13.83	28.63	46.00	-17.37	QP	

Remark: Result=Reading+Factor Over Limit=Result-Limit

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
2402.00	82.21	9.75	91.96	114.00	-22.04	Vertical
4804.00	28.89	15.27	44.16	74.00	-29.84	Vertical
7206.00	28.88	18.09	46.97	74.00	-27.03	Vertical
9608.00	29.87	23.76	53.63	74.00	-20.37	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
2402.00	83.17	9.75	92.92	114.00	-21.08	Horizontal
4804.00	28.52	15.27	43.79	74.00	-30.21	Horizontal
7206.00	29.56	18.09	47.65	74.00	-26.35	Horizontal
9608.00	28.30	23.76	52.06	74.00	-21.94	Horizontal
12010.00	*			74.00		Horizontal
14412.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
2402.00	72.14	9.75	81.89	94.00	-12.11	Vertical
4804.00	17.16	15.27	32.43	54.00	-21.57	Vertical
7206.00	17.93	18.09	36.02	54.00	-17.98	Vertical
9608.00	19.34	23.76	43.10	54.00	-10.90	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
2402.00	73.40	9.75	83.15	94.00	-10.85	Horizontal
4804.00	16.85	15.27	32.12	54.00	-21.88	Horizontal
7206.00	18.59	18.09	36.68	54.00	-17.32	Horizontal
9608.00	17.81	23.76	41.57	54.00	-12.43	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			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
2440.00	85.72	9.75	95.47	114.00	-18.53	Vertical
4880.00	27.50	15.27	42.77	74.00	-31.23	Vertical
7320.00	32.95	18.09	51.04	74.00	-22.96	Vertical
9760.00	29.72	23.76	53.48	74.00	-20.52	Vertical
12200.00	*			74.00		Vertical
14640.00	*			74.00		Vertical
2440.00	81.23	9.75	90.98	114.00	-23.02	Horizontal
4880.00	27.02	15.27	42.29	74.00	-31.71	Horizontal
7320.00	33.47	18.09	51.56	74.00	-22.44	Horizontal
9760.00	31.86	23.76	55.62	74.00	-18.38	Horizontal
12200.00	*			74.00		Horizontal
14640.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
2440.00	73.40	9.75	83.15	94.00	-10.85	Vertical
4880.00	18.66	15.27	33.93	54.00	-20.07	Vertical
7320.00	16.72	18.09	34.81	54.00	-19.19	Vertical
9760.00	18.29	23.76	42.05	54.00	-11.95	Vertical
12200.00	*			54.00		Vertical
14640.00	*			54.00		Vertical
2440.00	70.12	9.75	79.87	94.00	-14.13	Horizontal
4880.00	14.54	15.27	29.81	54.00	-24.19	Horizontal
7320.00	17.84	18.09	35.93	54.00	-18.07	Horizontal
9760.00	18.16	23.76	41.92	54.00	-12.08	Horizontal
12200.00	*			54.00		Horizontal
14640.00	*			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
2480.00	83.45	9.75	93.20	114.00	-20.80	Vertical
4960.00	31.48	15.27	46.75	74.00	-27.25	Vertical
7440.00	28.74	18.09	46.83	74.00	-27.17	Vertical
9920.00	32.83	23.76	56.59	74.00	-17.41	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
2480.00	84.15	9.75	93.90	114.00	-20.10	Horizontal
4960.00	27.47	15.27	42.74	74.00	-31.26	Horizontal
7440.00	32.82	18.09	50.91	74.00	-23.09	Horizontal
9920.00	28.35	23.76	52.11	74.00	-21.89	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
2480.00	75.01	9.75	84.76	94.00	-9.24	Vertical
4960.00	15.91	15.27	31.18	54.00	-22.82	Vertical
7440.00	19.18	18.09	37.27	54.00	-16.73	Vertical
9920.00	17.04	23.76	40.80	54.00	-13.20	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
2480.00	72.52	9.75	82.27	94.00	-11.73	Horizontal
4960.00	14.90	15.27	30.17	54.00	-23.83	Horizontal
7440.00	22.14	18.09	40.23	54.00	-13.77	Horizontal
9920.00	19.85	23.76	43.61	54.00	-10.39	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			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:

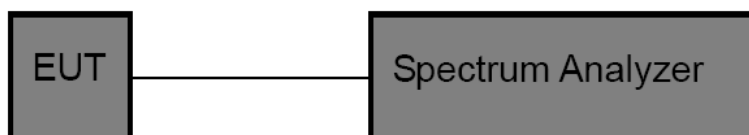
TM1 / CH: L						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
2390.000	34.55	9.73	44.28	74.00	-29.72	Vertical
2353.683	39.08	9.73	48.81	74.00	-25.19	Vertical
2390.000	36.17	9.73	45.90	74.00	-28.10	Horizontal
2350.269	42.62	9.73	52.35	74.00	-21.65	Horizontal
TM1 / CH: H						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
2483.500	32.61	9.91	42.52	74.00	-31.48	Vertical
2512.291	38.78	9.91	48.69	74.00	-25.31	Vertical
2483.500	30.99	9.91	40.90	74.00	-33.10	Horizontal
2498.198	35.63	9.91	45.54	74.00	-28.46	Horizontal
Note: Result=Reading+Factor, Over Limit=Result-Limit						

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.

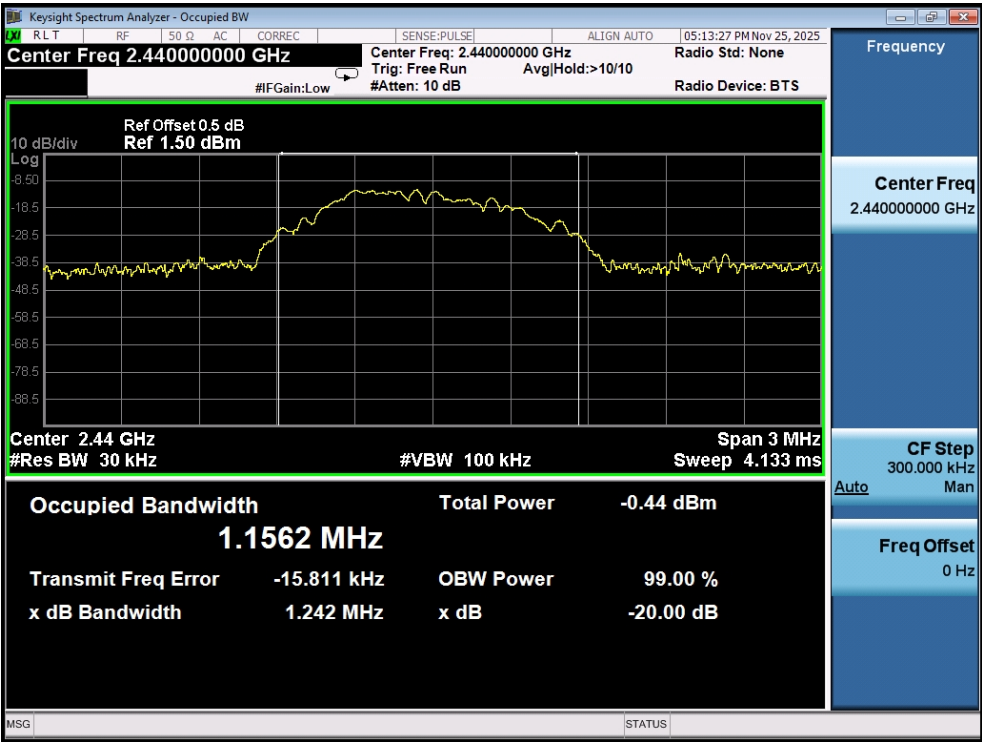
5.4. 5.4. Test Data

Temperature:	23 °C	Humidity:	43 %	Atmospheric Pressure:	101 kPa
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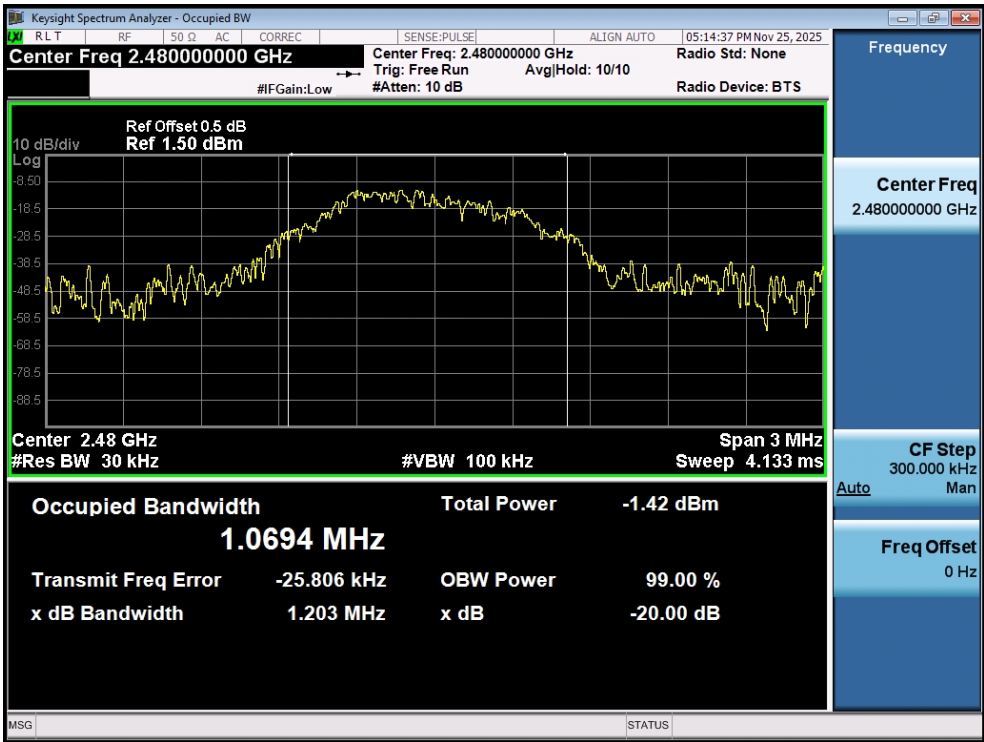
Channel	Bandwidth (kHz)	Result
Low	1222	PASS
Middle	1242	PASS
High	1203	PASS



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 Connected Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is -3.74dBi. It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

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

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 -----