



MEASUREMENT REPORT

FCC PART 15.247 Bluetooth-LE

Report No.: S20251017188501

Issue Date: 2025-12-26

Applicant: The Outliers Partnership Limited

Address: Unit 2A, 17 F, Glenealy Tower, NO.1 Glenealy, Central,
Hong Kong

FCC ID: 2BTLTSFKTK01

Product: Phone Style Walkie Talkie

Model No.: SFKTK01WB

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15 Subpart C (15.247)

Test Procedure(s): ANSI C63.10-2020, KDB 558074 D01v05r02

Result: Pass

Item Receipt Date: Nov. 07, 2025

Test Date: Nov. 12, ~ Dec. 10, 2025



扫一扫验真

Compiled By

Stone Zhang(Stone Zhang)
Senior Test Engineer

Approved By

Line Chen(Line Chen)
Engineer Manager

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2020. Test results reported herein relate only to the item(s). The test report shall not be reproduced except in full without the written approval of Fangguang Inspection & Testing Co., Ltd. Wuxi Branch.

The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

Revision History

Report No.	Version	Description	Issue Date
S20251017188501	Rev. 01	/	2025-12-26

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§2.1033 General Information

Applicant:	The Outliers Partnership Limited
Applicant Address:	Unit 2A, 17 F, Glenealy Tower, NO.1 Glenealy, Central, Hong Kong
Manufacturer:	The Outliers Partnership Limited
Manufacturer Address:	Unit 2A, 17 F, Glenealy Tower, NO.1 Glenealy, Central, Hong Kong
Factory:	Shenzhen Huashengtai Electronics Co., Ltd
Factory Address:	Room 303, Building A, No. 6 Huanping Road, Gaoqiao Community, Pingdi Street, Longgang District, Shenzhen
Test Site:	Fanguang Inspection & Testing Co., Ltd.
LAB ID:	CN5037
LAB registration number:	600222-0
Test Site Address:	No.8 Ningyun Rd.,Xinwu District Wuxi,Jiangsu 214000 China
FCC Rule Part(s):	Part 15 Subpart C (15.247)
FCC ID:	2BTLTSFKTK01
Test Device Serial No.:	S/N: / ☐ Production ☒ Pre-Production ☐ Engineering
FCC Classification:	Digital Transmission System (DTS)

1. Introduction

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of Phone Style Walkie Talkie frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2. Fangguang Test Location

These measurement tests were performed at the Fangguang Inspection and testing Co.,LTD located at No.8 Ningyun Rd.,Xinwu District Wuxi,Jiangsu 214000 China. The detailed description of the measurement facility was found to be in compliance with the requirements of ANSI C63.10-2020.

2. Product Information

2.1. Equipment Description

Product Name:	Phone Style Walkie Talkie
Main Test Model:	SFKTK01WB
Trade Mark:	SciFikids
Input Voltage Range:	DC 3.7V from battery
Bluetooth Version:	5.3
Software Version:	WT20251028V1.6
Hardware Version:	20251018_V1
EUT sample number:	S202510171885-1-1 (Conducted) S202510171885-1-2 (Radiated)

Note: This information is provided by the Customer and its authenticity is the responsibility of the Customer.

2.2. Product Specification Subjective to this Report

Bluetooth Frequency	BLE_1M: 2402~2480MHz BLE_2M: 2402~2480MHz
Number of Channels	BLE: 40
Channel Spacing	2MHz
Type of modulation	GFSK
Data Rate	1Mbps
Antenna Type:	PCB antenna
Antenna Gain:	0dBi

Note: The maximum Antenna Gain was declared by the manufacturer.

2.3. Operation Frequency / Channel List

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

EUT was tested with Channel 0, 19 and 39.

2.4. Device Capabilities

This device contains the following capabilities: Bluetooth (5.3)

Note: The maximum achievable duty cycle was determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 8MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode	Antenna	Frequency (MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor
BLE_1M	Ant1	2402	2.10	2.50	0.8400	84.00	0.76
		2440	2.10	2.50	0.8400	84.00	0.76
		2480	2.10	2.50	0.8400	84.00	0.76
BLE_2M	Ant1	2402	1.06	2.50	0.4240	42.40	3.73
		2440	1.06	2.50	0.4240	42.40	3.73
		2480	1.07	2.50	0.4280	42.80	3.69

Test Graphs



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



2.5. Description of Test Software

The test utility software used during testing was “FCC_assist1.0.4.exe”, Power Parameter Value:

Software Version	Test Mode	Software Power Setting
FCC_assist1.0.4.exe	BLE_1M	Default
	BLE_2M	

2.6. Test Mode

Test Mode	Mode 1: Transmit by BLE_1M
	Mode 2: Transmit by BLE_2M

2.7. Test Configuration

The EUT was tested per the guidance of KDB 558074 D01 v05r02. ANSI C63.10-2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.8. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.9. EUT Photo

The EUT external photo, internal photo and test setup photo, please refer to the plots in the S202510171885-A1/A2/A3.

2.10. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

2.11. Calculation with all conversion and correction factors used

For AC Line Conducted Emissions Test:

Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

For Radiated Emissions Below 1GHz Test:

Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

For Radiated Emissions Above 1GHz Test:

Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

3. Description of Test

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2020), and the guidance provided in KDB 558074 D01 v05r02 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2020.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. The turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-25GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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.”

- Use a unique coupling to the intentional radiator.

5. Test Equipment Calibration Date

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	FWXGJC-2016-181	1 year	2026/07/08
Two-Line V-Network	R&S	ENV 216	FWXGJC-2016-182	1 year	2026/07/09
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2026/08/24

Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Loop Antenna	Schwarzbeck	FMZB 1519B	FWXGJC-2018-015	3 year	2026/06/21
Bi-Log Antenna	R&S	HL562E	FWXGJC-2016-267-06	1 year	2026/01/17
Broadband Antenna	Horn R&S	HF907	FWXGJC-2016-267-07	1 year	2026/06/21
Broadband Antenna	Horn Schwarzbeck	BBHA9170	FWXGJC-2018-016	3 year	2026/06/21
EMI Receiver	R&S	ESCI3	FGZZ-2024-033	1 year	2026/07/17
EXA Signal Analyzer	Keysight	N9020A	FWXGJC-2025-006	1 year	2026-07-16
Pre-Amplifier	R&S	SCU-18D	FWXGJC-2016-267-05	1 year	2026/01/13
Pre-Amplifier	R&S	EMC184055SE	FWXGJC-2018-018	3 year	2026/06/21
Hygrothermograph	Mittel	HTC-1	FWXDA-2016-386	1 year	2026/08/24
Anechoic Chamber	SAEMC	EMCCT-3	FWXGJC-2016-270	3 year	2026/04/05

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Keysight	N9010B	FWXGJC-2018-010	1 year	2026/07/16
RF Control Unit	Toncend	JS0806-2	FWXGJC-2018-013	1 year	2026/07/16
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2026/08/24

Auxiliary Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
Filter	Toncend	ZBSF6	07247867	2026/07/16
Filter	Toncend	ZHPF6	07233297	2026/07/16
Attenuator	Toncend	10dB	/	2026/07/16
RF Cable	Toncend	T-1	/	2026/07/16
Automated filter bank	Toncend	JS0806-F	FWXGJC-2018-019	2026/07/16

Test Software

Test Software	Manufacturer	Version	Asset No.	Function
JS32	Tonscend	V5.0.0	FWXWA-2019-004	RE
EMI Test Software	R&S	9.26.00	/	Conducted Emission
RF Test Software	Tonscend	3.3.10	/	/

6. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 2.68dB
Radiated Emission Measurement (9kHz - 30MHz)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 3.06dB
Radiated Emission Measurement (30MHz -1GHz)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 4.01dB
Radiated Emission Measurement (1-18GHz)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 4.97dB
Radiated Emission Measurement (18-40GHz)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 5.32dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 30MHz-1GHz: 1.00 dB 1GHz-12.75GHz: 1.30 dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.60dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.80dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.20MHz
Frequency Stability
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.1×10^{-6} MHz

7. Test Result

7.1. Summary

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	$\geq 500\text{kHz}$	Conducted	Pass	Section 7.2
15.247(b)(3)	Output Power	$\leq 30\text{dBm}$		Pass	Section 7.3
15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$		Pass	Section 7.4
15.247(d)	Band Edge	$\geq 20\text{dBc}$		Pass	Section 7.5
15.247(d)	Out-of-Band Emissions	$\geq 20\text{dBc}$		Pass	Section 7.5
15.205	Restricted Bands	Emissions in restricted bands must meet the radiated limits detailed in 15.205	Radiated	Pass	Section 7.7
15.209	General Field Strength Limits (Radiated Emission Limits)	Radiated Emission must meet the radiated limits detailed in 15.209 (RSS GEN [8.9])		Pass	Section 7.6
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits (RSS GEN [8.8])	Line Conducted	Pass	Section 7.8

Notes:

- 1) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

7.2. 6dB Bandwidth Measurement

7.2.1. Test Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.2.2. Test Procedure used

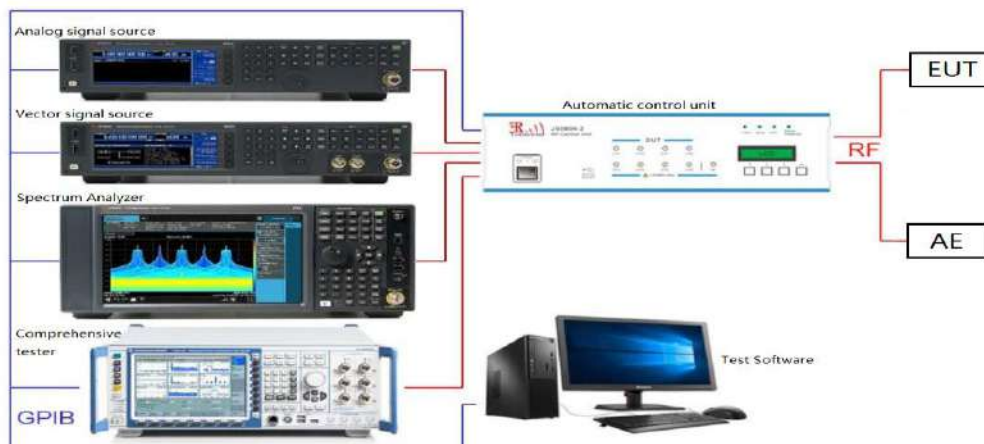
ANSI C63.10-2020 Section 11.8.1 Option 1

KDB 558074 D01 v05r02 – Section 8.2

7.2.3. Test Setting

1. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz
2. Set the VBW $\geq [3 \times \text{RBW}]$
3. Detector = peak
4. Trace mode = max hold
5. Sweep = No faster than coupled (auto) time
6. Allow the trace to stabilize
7. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.2.4. Test Setup



7.2.5. Test Result

Temperature:	23.4 °C
Relative Humidity:	32 %
ATM Pressure:	102.5 kPa
Test Date:	2025-12-03
Test Engineer:	Stone Zhang

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.672	2402.332	0.5	PASS
		2440	0.676	2439.664	2440.340	0.5	PASS
		2480	0.672	2479.660	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.156	2401.436	2402.592	0.5	PASS
		2440	1.152	2439.412	2440.564	0.5	PASS
		2480	1.156	2479.420	2480.576	0.5	PASS

Test Graphs of 6dB Bandwidth



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





7.3. Output Power Measurement

7.3.1. Test Limit

The maximum permissible conducted output power is 1 Watt (30dBm).

And for antenna gain greater than 6dBi the limit shall reduce by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.3.2. Test Procedure Used

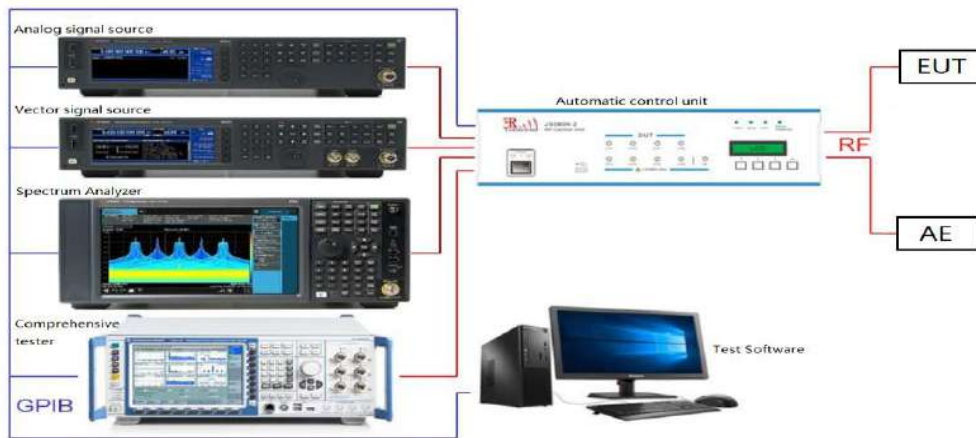
ANSI C63.10-2020 – Section 11.9.1.1

KDB 558074 D01 v05r02 – Section 8.3.1.2

7.3.3. Test Setting

- 1.Set the RBW $\geq$ DTS bandwidth.
- 2.Set the VBW $\geq$ $[3 \times \text{RBW}]$.
- 3.Set the span $\geq$ $[3 \times \text{RBW}]$.
- 4.Detector = peak.
- 5.Sweep time = No faster than coupled (auto) time.
- 6.Trace mode = max hold.
- 7.Allow trace to fully stabilize.
8. Use peak marker function to determine the peak amplitude level.

7.3.4. Test Setup



7.3.5. Test Result

Temperature:	23.4 °C
Relative Humidity:	32 %
ATM Pressure:	102.5 kPa
Test Date:	2025-12-03
Test Engineer:	Stone Zhang

Test Mode	Antenna	Channel	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-5.94	≤30	PASS
		2440	-5.30	≤30	PASS
		2480	-4.56	≤30	PASS
BLE_2M	Ant1	2402	-5.92	≤30	PASS
		2440	-5.18	≤30	PASS
		2480	-4.50	≤30	PASS

Test Graphs



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





7.4. Power Spectral Density Measurement

7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band. And for antenna gain greater than 6dBi the limit shall reduce by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.4.2. Test Procedure Used

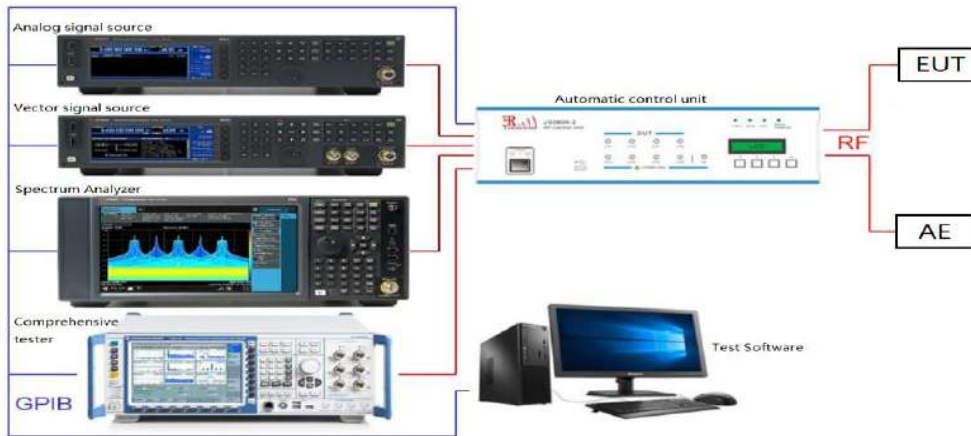
KDB 558074 D01 v05r02 - Section 8.4

ANSI C63.10 – Section 11.10.2

7.4.3. Test Setting

1. Set analyzer center frequency to DTS channel center frequency.
2. Set span to > 1.5 times the DTS bandwidth.
3. Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Sweep time = No faster than coupled (auto) time.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

7.4.4. Test Setup



7.4.5. Test Result

Temperature:	23.4 °C
Relative Humidity:	32 %
ATM Pressure:	102.5 kPa
Test Date:	2025-12-03
Test Engineer:	Stone Zhang

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-21.80	≤8.00	PASS
		2440	-21.06	≤8.00	PASS
		2480	-20.50	≤8.00	PASS
BLE_2M	Ant1	2402	-23.93	≤8.00	PASS
		2440	-23.36	≤8.00	PASS
		2480	-22.65	≤8.00	PASS

Test Graphs



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

7.5.2. Test Procedure Used

KDB 558074 D01 v05r02 - Section 8.5 & Section 8.6

ANSI C63.10 – Section 11.11&11.12

7.5.3. Test Setting

Reference level measurement:

Establish a reference level by using the following procedure:

- (a) Set instrument center frequency to DTS channel center frequency.
- (b) Set the span to ≥ 1.5 times the DTS bandwidth.
- (c) Set the RBW = 100 kHz.
- (d) Set the VBW $\geq [3 \times \text{RBW}]$.
- (e) Detector = peak.
- (f) Sweep time = No faster than coupled (auto) time.
- (g) Trace mode = max-hold.
- (h) Allow trace to fully stabilize.
- (i) Use the peak marker function to determine the maximum PSD level.

Emission level measurement:

Establish an emission level by using the following procedure:

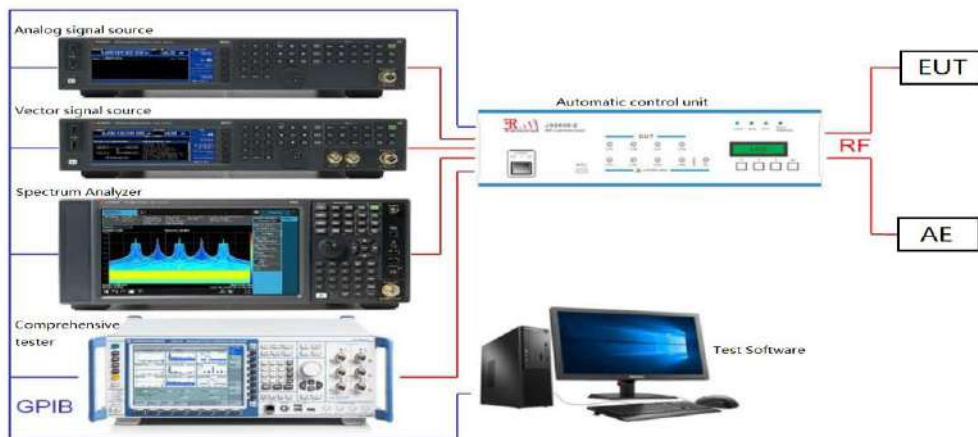
- (a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

- (b) Set the RBW = 100 kHz.
- (c) Set the VBW $\geq [3 \times \text{RBW}]$.
- (d) Detector = peak.
- (e) Sweep time = No faster than coupled (auto) time.
- (f) Trace mode = max-hold.
- (g) Allow trace to fully stabilize.
- (h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

7.5.4. Test Setup



7.5.5. Test Result

Temperature:	23.4 °C
Relative Humidity:	32 %
ATM Pressure:	102.5 kPa
Test Date:	2025-12-03
Test Engineer:	Stone Zhang

The Conducted Band Edge test data:

Test Mode	Antenna	ChName	Frequency (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-6.24	-48.03	≤-26.24	PASS
		High	2480	-4.90	-48.45	≤-24.9	PASS
BLE_2M	Ant1	Low	2402	-8.38	-38.28	≤-28.38	PASS
		High	2480	-5.86	-36.91	≤-25.86	PASS

The Out-of-Band Emissions test data:

Test Mode	Antenna	Channel	Frequency Range [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-6.33	-6.33	---	PASS
			30~1000	-6.33	-50.60	≤-26.33	PASS
			1000~26500	-6.33	-42.65	≤-26.33	PASS
		2440	Reference	-5.63	-5.63	---	PASS
			30~1000	-5.63	-50.87	≤-25.63	PASS
			1000~26500	-5.63	-42.71	≤-25.63	PASS
		2480	Reference	-5.06	-5.06	---	PASS
			30~1000	-5.06	-50.55	≤-25.06	PASS
			1000~26500	-5.06	-42.72	≤-25.06	PASS
BLE_2M	Ant1	2402	Reference	-6.86	-6.86	---	PASS
			30~1000	-6.86	-49.82	≤-26.86	PASS
			1000~26500	-6.86	-40.06	≤-26.86	PASS
		2440	Reference	-6.05	-6.05	---	PASS
			30~1000	-6.05	-50.77	≤-26.05	PASS
			1000~26500	-6.05	-42.15	≤-26.05	PASS
		2480	Reference	-5.43	-5.43	---	PASS

			30~1000	-5.43	-50.9	≤ -25.43	PASS
			1000~26500	-5.43	-42.43	≤ -25.43	PASS

Test Graphs of Conducted Band Edge

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402



BLE_2M_Ant1_High_2480



Test Graphs of Out-of-Band Emissions

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000



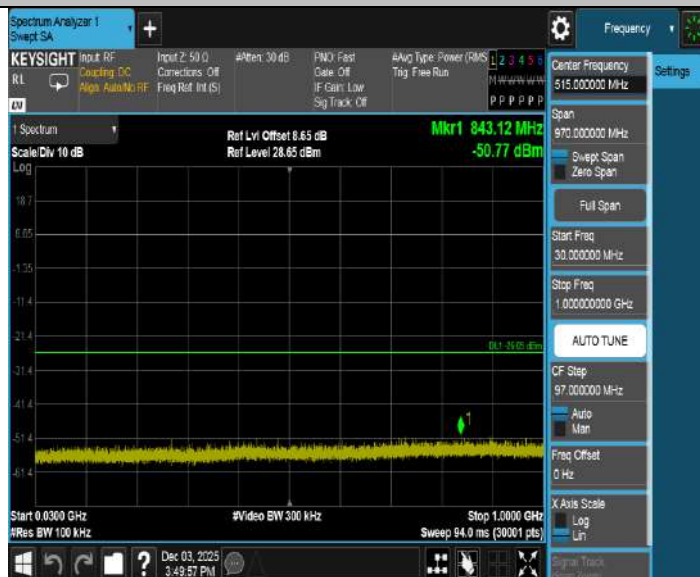
BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference



BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500



BLE_2M_Ant1_Low_2402



BLE_2M_Ant1_High_2480



7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

ANSI C63.10-2020 – Section 6.6.4.3

7.6.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

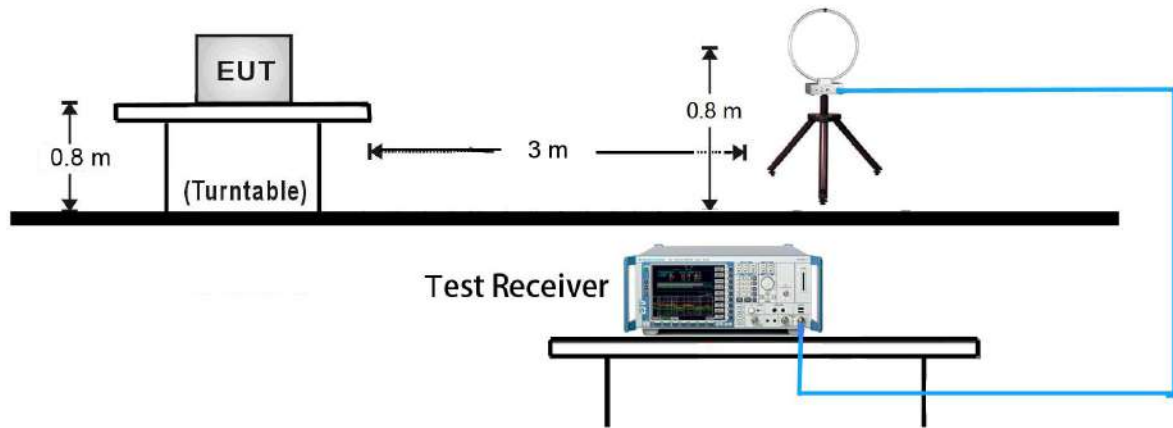
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

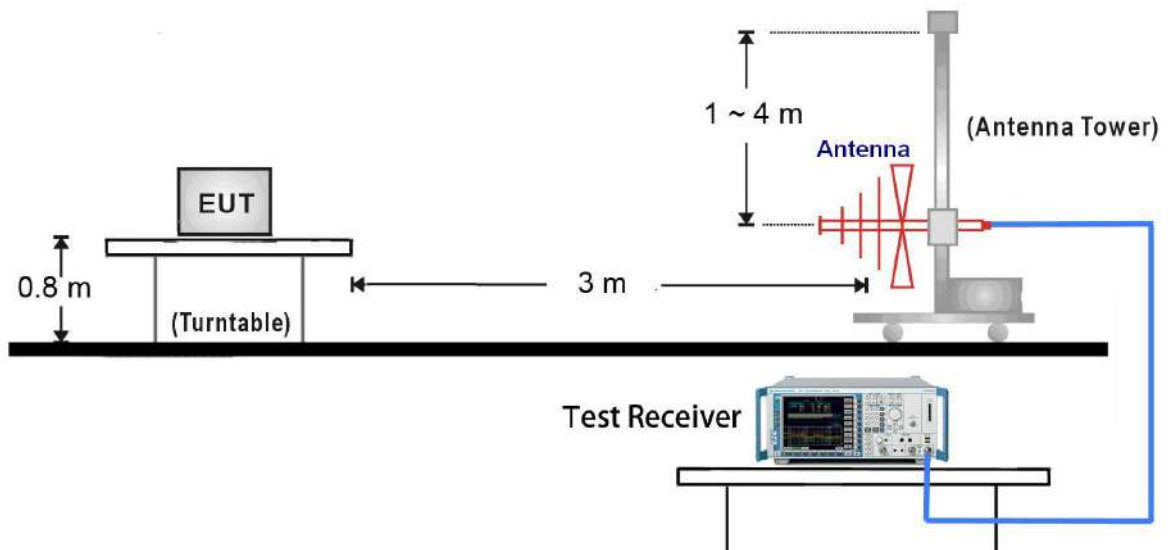
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

7.6.4. Test Setup

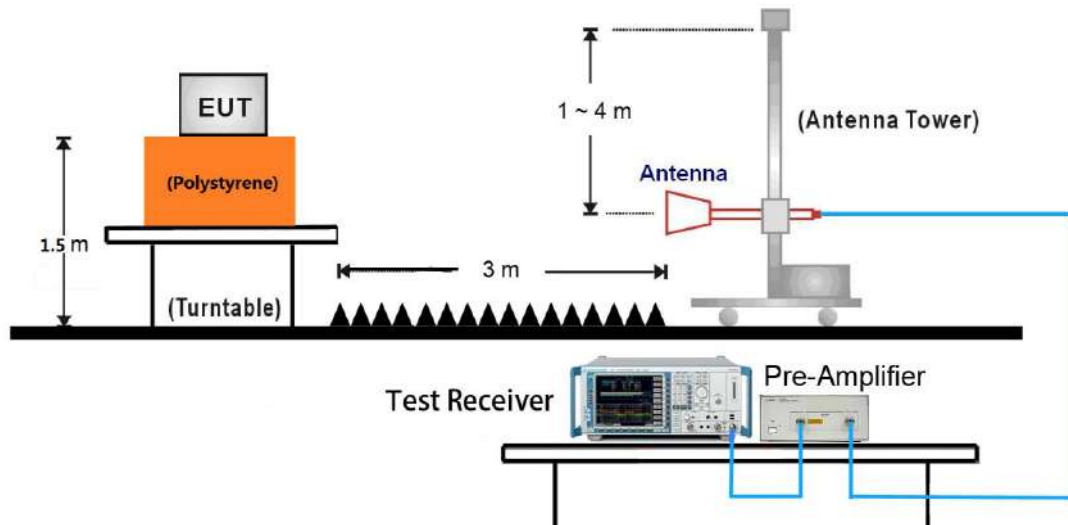
9kHz ~ 30MHz Test Setup:



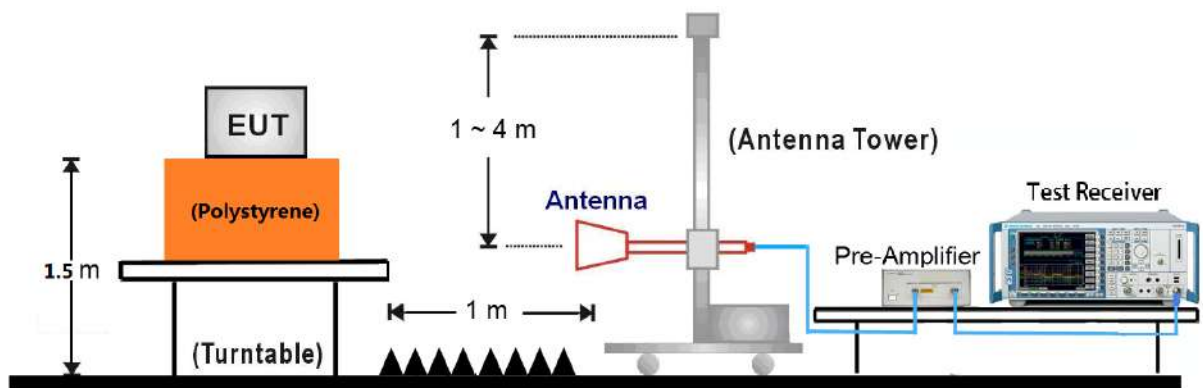
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~ 25GHz Test Setup:



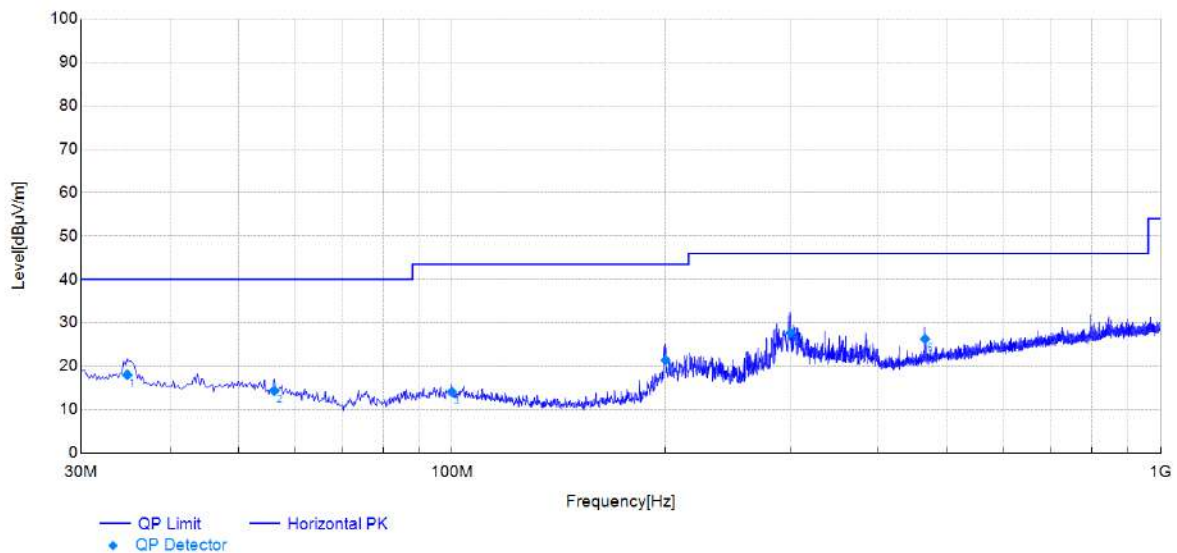
7.6.5. Test Result

The worst case of Radiated Emission below 1GHz:

30MHz – 1GHz Test Data

EUT:	Phone Style Walkie Talkie	Polarity:	Horizontal
Model:	SFKTK01WB	Test Engineer:	Stone Zhang
Mode:	Transmit at BLE_1M Channel 00	Voltage:	DC 3.7V
Environment:	Temp: 23.2~31.4°C; Humi: 30~62%	Test Date:	2025-11-12 ~ 2025-12-10

Test Graph



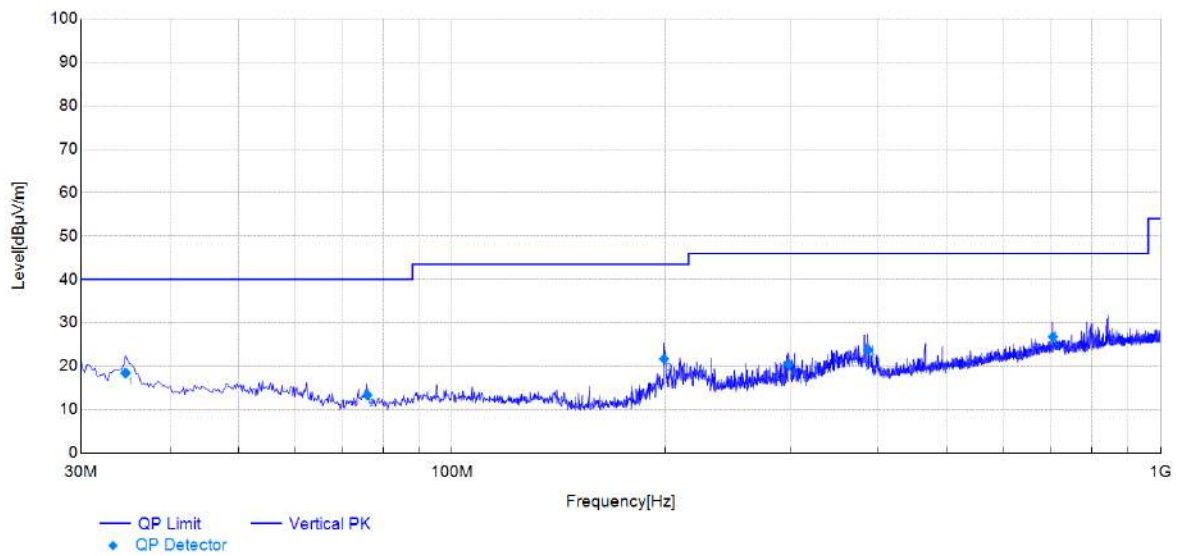
Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	34.8500	15.94	2.1	18.04	40.00	21.96	100	64	Horizontal	PASS
2	56.1900	13.84	0.52	14.36	40.00	25.64	150	316	Horizontal	PASS
3	100.0340	13.17	0.94	14.11	43.50	29.39	150	86	Horizontal	PASS
4	200.1380	12.67	8.72	21.39	43.50	22.11	150	153	Horizontal	PASS
5	300.4360	15.45	12.33	27.78	46.00	18.22	100	157	Horizontal	PASS
6	464.9480	19.46	6.83	26.29	46.00	19.71	150	143	Horizontal	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	Phone Style Walkie Talkie	Polarity:	Vertical
Model:	SFKTK01WB	Test Engineer:	Stone Zhang
Mode:	Transmit at BLE_1M Channel 00	Voltage:	DC 3.7V
Environment:	Temp: 23.2~31.4°C; Humi: 30~62%	Test Date:	2025-11-12 ~ 2025-12-10

Test Graph



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	34.6560	16.20	2.25	18.45	40.00	21.55	100	112	Vertical	PASS
2	75.9780	10.27	3.08	13.35	40.00	26.65	100	117	Vertical	PASS
3	199.1680	12.12	9.59	21.71	43.50	21.79	150	114	Vertical	PASS
4	298.6900	14.31	6.16	20.47	46.00	25.53	150	160	Vertical	PASS
5	387.1540	16.11	7.62	23.73	46.00	22.27	100	107	Vertical	PASS
6	704.3440	21.39	5.41	26.80	46.00	19.20	100	289	Vertical	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

The worst case of Radiated Emission 1-18GHz:

EUT:	Phone Style Walkie Talkie	Polarity:	Vertical
Model:	SFKTK01WB	Test Engineer:	Stone Zhang
Mode:	Transmit at BLE_1M Channel 00	Voltage:	DC 3.7V
Environment:	Temp: 23.2~31.4°C; Humi: 30~62%	Test Date:	2025-11-12 ~ 2025-12-10

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1502.5025	37.88	32.75	-5.13	54.00	21.25	160	43	AV	Horizontal	PASS
2	1518.5185	42.17	37.17	-5.00	74.00	36.83	160	81	PK	Horizontal	PASS
3	2013.0130	42.33	41.55	-0.78	74.00	32.45	160	246	PK	Horizontal	PASS
4	2035.0350	37.52	36.79	-0.73	54.00	17.21	160	9	AV	Horizontal	PASS
5	2973.9740	35.34	38.20	2.86	54.00	15.80	160	280	AV	Horizontal	PASS
6	3090.0450	40.71	44.21	3.50	74.00	29.79	160	288	PK	Horizontal	PASS
7	3727.8639	39.81	45.34	5.53	74.00	28.66	160	204	PK	Horizontal	PASS
8	4005.5028	30.26	37.22	6.96	54.00	16.78	160	210	AV	Horizontal	PASS
9	4943.4717	29.54	39.40	9.86	54.00	14.60	160	8	AV	Horizontal	PASS
10	5243.6218	39.34	49.61	10.27	74.00	24.39	160	351	PK	Horizontal	PASS
11	6204.1021	28.84	40.13	11.29	54.00	13.87	160	108	AV	Horizontal	PASS
12	6879.4397	37.28	49.49	12.21	74.00	24.51	160	58	PK	Horizontal	PASS

Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1418.4184	42.25	37.28	-4.97	74.00	36.72	160	120	PK	Vertical	PASS
2	1428.4284	38.48	33.59	-4.89	54.00	20.41	160	3	AV	Vertical	PASS
3	1766.7668	42.34	39.94	-2.40	54.00	14.06	160	202	AV	Vertical	PASS
4	1766.7668	48.06	45.66	-2.40	74.00	28.34	160	202	PK	Vertical	PASS
5	2759.7598	36.49	38.65	2.16	54.00	15.35	160	302	AV	Vertical	PASS
6	2861.8619	42.35	44.97	2.62	74.00	29.03	160	47	PK	Vertical	PASS
7	3472.7364	40.37	45.80	5.43	74.00	28.20	160	145	PK	Vertical	PASS
8	3720.3602	31.25	37.44	6.19	54.00	16.56	160	145	AV	Vertical	PASS
9	3967.9840	30.55	37.55	7.00	54.00	16.45	160	145	AV	Vertical	PASS
10	3997.9990	39.32	46.47	7.15	74.00	27.53	160	356	PK	Vertical	PASS
11	5131.0655	29.60	39.40	9.80	54.00	14.60	160	213	AV	Vertical	PASS
12	5363.6818	38.90	49.28	10.38	74.00	24.72	160	105	PK	Vertical	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	Phone Style Walkie Talkie	Polarity:	Vertical
Model:	SFKTK01WB	Test Engineer:	Stone Zhang
Mode:	Transmit at BLE_1M Channel 19	Voltage:	DC 3.7V
Environment:	Temp: 23.2~31.4°C; Humi: 30~62%	Test Date:	2025-11-12 ~ 2025-12-10

Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1434.4344	37.62	31.96	-5.66	54.00	22.04	160	306	AV	Horizontal	PASS
2	1440.4404	42.78	37.16	-5.62	74.00	36.84	160	142	PK	Horizontal	PASS
3	2113.1131	36.99	36.48	-0.51	54.00	17.52	160	263	PK	Horizontal	PASS
4	2149.1491	42.36	42.01	-0.35	74.00	31.99	160	157	AV	Horizontal	PASS
5	2737.7377	36.45	38.38	1.93	54.00	15.62	160	186	AV	Horizontal	PASS
6	2827.8278	41.50	43.78	2.28	74.00	30.22	160	219	PK	Horizontal	PASS
7	4553.2766	30.61	38.79	8.18	54.00	15.21	160	167	PK	Horizontal	PASS
8	4560.7804	39.91	48.11	8.20	74.00	25.89	160	70	AV	Horizontal	PASS
9	6106.5533	28.95	39.97	11.02	54.00	14.03	160	191	AV	Horizontal	PASS
10	6369.1846	37.99	49.61	11.62	74.00	24.39	160	65	PK	Horizontal	PASS
11	8305.1526	26.56	41.18	14.62	54.00	12.82	160	142	AV	Horizontal	PASS
12	8695.3477	34.81	50.12	15.31	74.00	23.88	160	249	PK	Horizontal	PASS

Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1240.2402	42.83	36.56	-6.27	74.00	37.44	160	356	PK	Vertical	PASS
2	1256.2563	38.33	32.19	-6.14	54.00	21.81	160	194	AV	Vertical	PASS
3	1766.7668	41.67	39.27	-2.40	54.00	14.73	160	96	AV	Vertical	PASS
4	1766.7668	48.33	45.93	-2.40	74.00	28.07	160	96	PK	Vertical	PASS
5	3442.7214	41.02	46.27	5.25	74.00	27.73	160	268	AV	Vertical	PASS
6	3442.7214	32.40	37.65	5.25	54.00	16.35	160	274	PK	Vertical	PASS
7	4538.2691	30.74	38.66	7.92	54.00	15.34	160	210	PK	Vertical	PASS
8	4553.2766	41.01	48.95	7.94	74.00	25.05	160	210	AV	Vertical	PASS
9	5363.6818	38.55	48.93	10.38	74.00	25.07	160	115	AV	Vertical	PASS
10	5386.1931	29.30	39.76	10.46	54.00	14.24	160	162	PK	Vertical	PASS
11	6204.1021	28.68	40.01	11.33	54.00	13.99	160	346	AV	Vertical	PASS
12	6256.6283	38.15	49.50	11.35	74.00	24.50	160	274	PK	Vertical	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	Phone Style Walkie Talkie	Polarity:	Vertical
Model:	SFKTK01WB	Test Engineer:	Stone Zhang
Mode:	Transmit at BLE_1M Channel 39	Voltage:	DC 3.7V
Environment:	Temp: 23.2~31.4°C; Humi: 30~62%	Test Date:	2025-11-12 ~ 2025-12-10

Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1352.3524	43.04	36.76	-6.28	74.00	37.24	160	177	AV	Horizontal	PASS
2	1418.4184	38.84	33.05	-5.79	54.00	20.95	160	325	PK	Horizontal	PASS
3	1740.7407	42.32	39.37	-2.95	74.00	34.63	160	221	PK	Horizontal	PASS
4	1898.8989	37.54	35.84	-1.70	54.00	18.16	160	134	AV	Horizontal	PASS
5	2739.7397	36.38	38.32	1.94	54.00	15.68	160	230	AV	Horizontal	PASS
6	2793.7938	41.63	43.75	2.12	74.00	30.25	160	76	PK	Horizontal	PASS
7	3900.4502	30.89	37.16	6.27	54.00	16.84	160	128	PK	Horizontal	PASS
8	3900.4502	40.43	46.70	6.27	74.00	27.30	160	128	AV	Horizontal	PASS
9	4553.2766	30.74	38.92	8.18	54.00	15.08	160	357	AV	Horizontal	PASS
10	4568.2841	40.54	48.75	8.21	74.00	25.25	160	192	PK	Horizontal	PASS
11	6204.1021	28.75	40.04	11.29	54.00	13.96	160	0	AV	Horizontal	PASS
12	6211.6058	37.74	49.05	11.31	74.00	24.95	160	231	PK	Horizontal	PASS

Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1166.1662	44.08	37.27	-6.81	74.00	36.73	160	107	PK	Vertical	PASS
2	1260.2603	37.67	31.56	-6.11	54.00	22.44	160	198	AV	Vertical	PASS
3	1626.6266	38.89	35.47	-3.42	54.00	18.53	160	164	AV	Vertical	PASS
4	1628.6286	43.06	39.65	-3.41	74.00	34.35	160	86	PK	Vertical	PASS
5	2095.0951	38.34	37.70	-0.64	54.00	16.30	160	149	AV	Vertical	PASS
6	2095.0951	43.57	42.93	-0.64	74.00	31.07	160	149	PK	Vertical	PASS
7	3450.2251	40.95	46.25	5.30	74.00	27.75	160	98	PK	Vertical	PASS
8	3465.2326	31.25	36.63	5.38	54.00	17.37	160	134	AV	Vertical	PASS
9	4965.9830	38.67	48.09	9.42	74.00	25.91	160	356	AV	Vertical	PASS
10	5131.0655	29.69	39.49	9.80	54.00	14.51	160	157	PK	Vertical	PASS
11	6114.0570	38.03	49.18	11.15	74.00	24.82	160	318	AV	Vertical	PASS
12	6316.6583	28.90	40.30	11.40	54.00	13.70	160	313	PK	Vertical	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

7.7. Restricted Band Edge Measurement

7.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.7.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.7.3. Test Setting

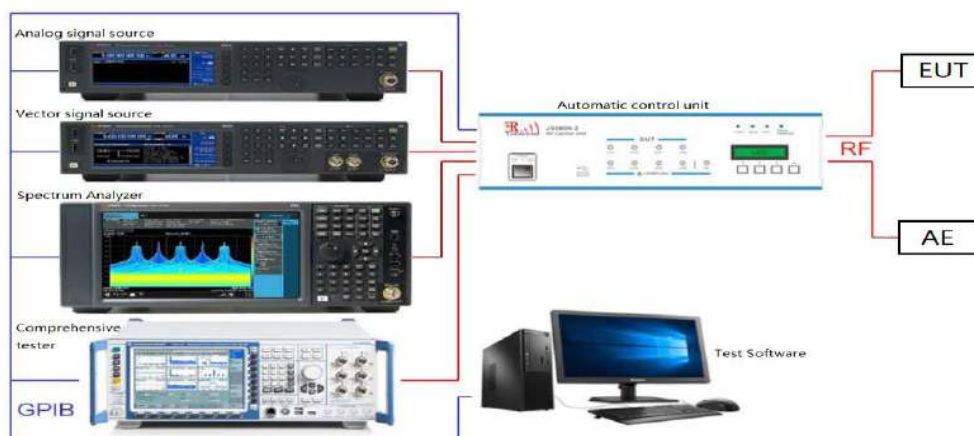
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

7.7.4. Test Setup

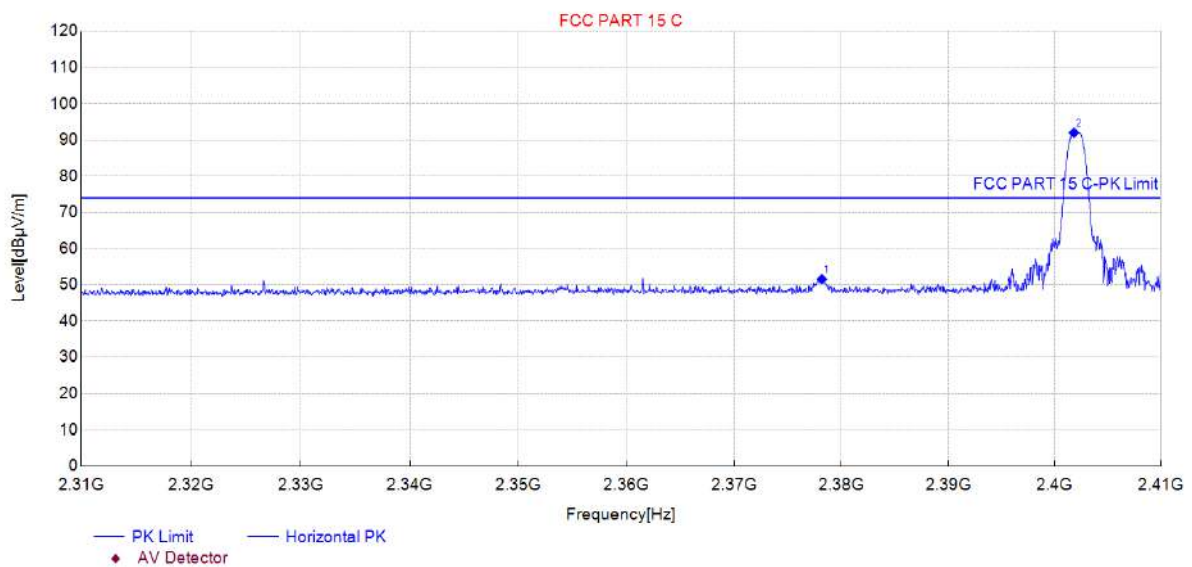


7.7.5. Test Result

BLE_1M

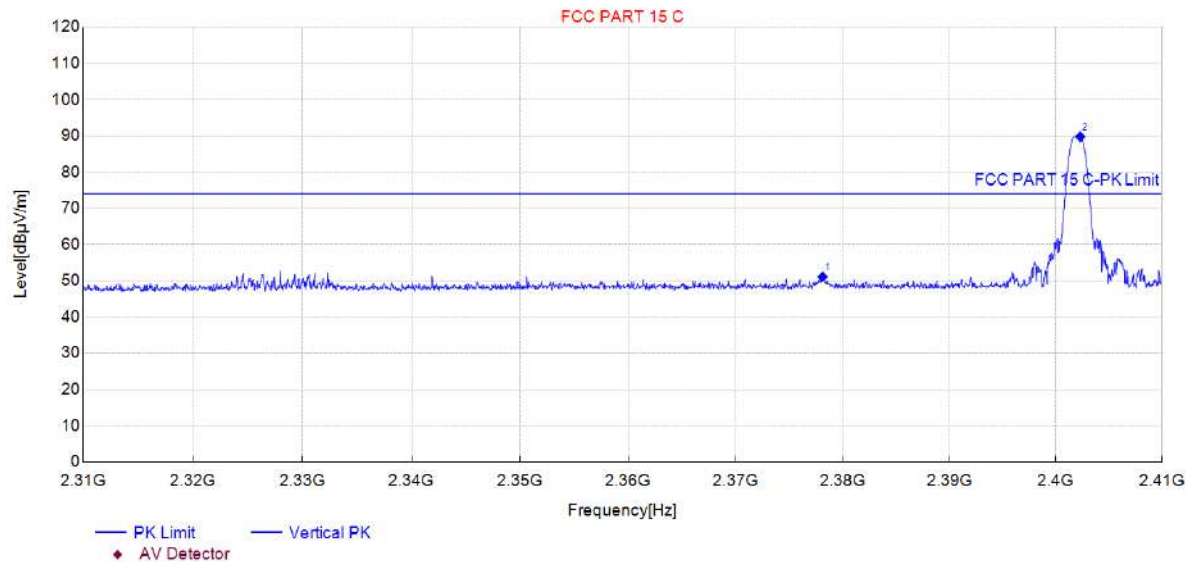
Test Mode:	BLE_1M	Test Date:	2025-11-12 ~ 2025-12-10
Test Channel:	2402	Test Engineer:	Stone Zhang
Remark:	/		

Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2378.1500	16.36	51.51	35.15	74.00	22.49	160	147	PK	Horizontal	PASS
2	2401.8000	56.73	91.94	35.21	/	/	160	142	PK	Horizontal	PASS

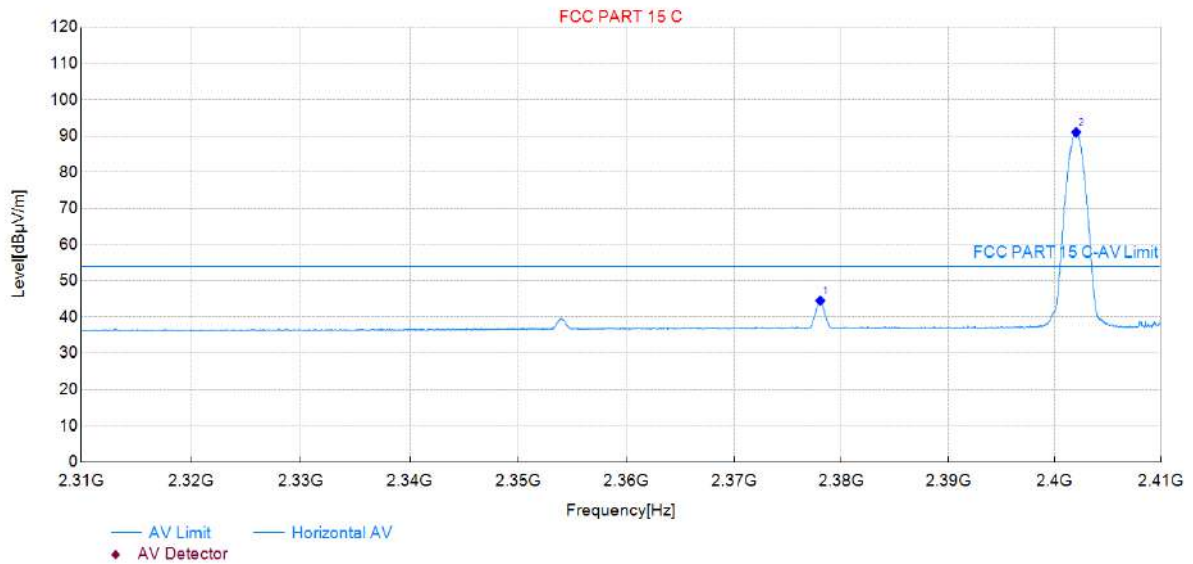


Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2378.1000	15.92	51.12	35.20	74.00	22.88	160	108	PK	Vertical	PASS
2	2402.3000	54.50	89.77	35.27	/	/	160	269	PK	Vertical	PASS

Test Mode:	BLE_1M	Test Date:	2025-11-12 ~ 2025-12-10
Test Channel:	2402	Test Engineer:	Stone Zhang
Remark:	/		

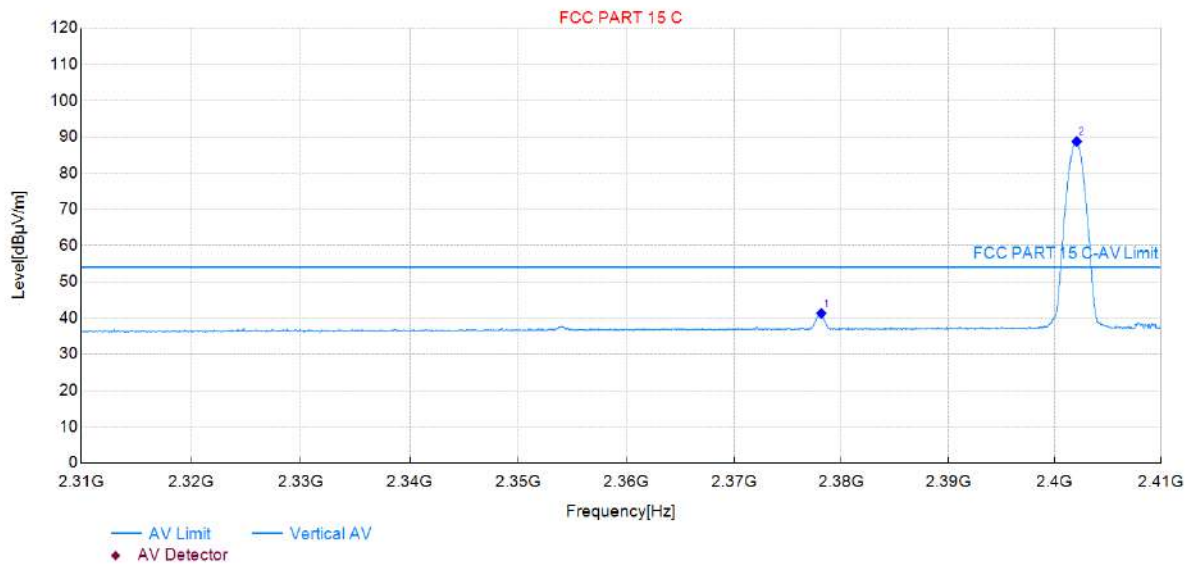
Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2378.0000	9.31	44.46	35.15	54.00	9.54	160	147	AV	Horizontal	PASS
2	2402.0000	55.76	90.97	35.21	/	/	160	142	AV	Horizontal	PASS

Test Graph

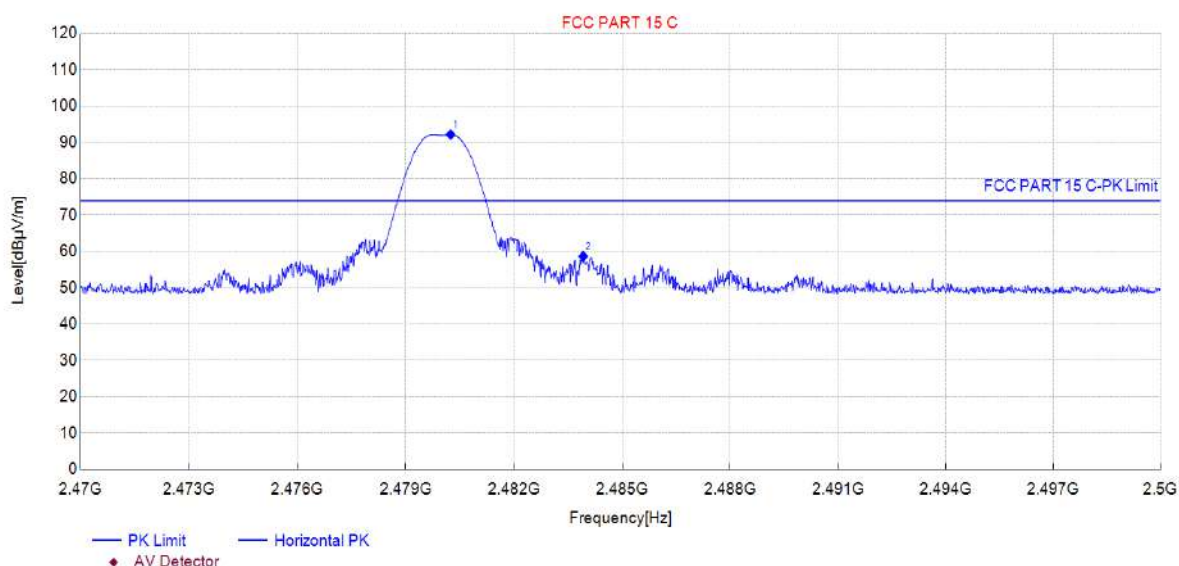


Suspected Data List

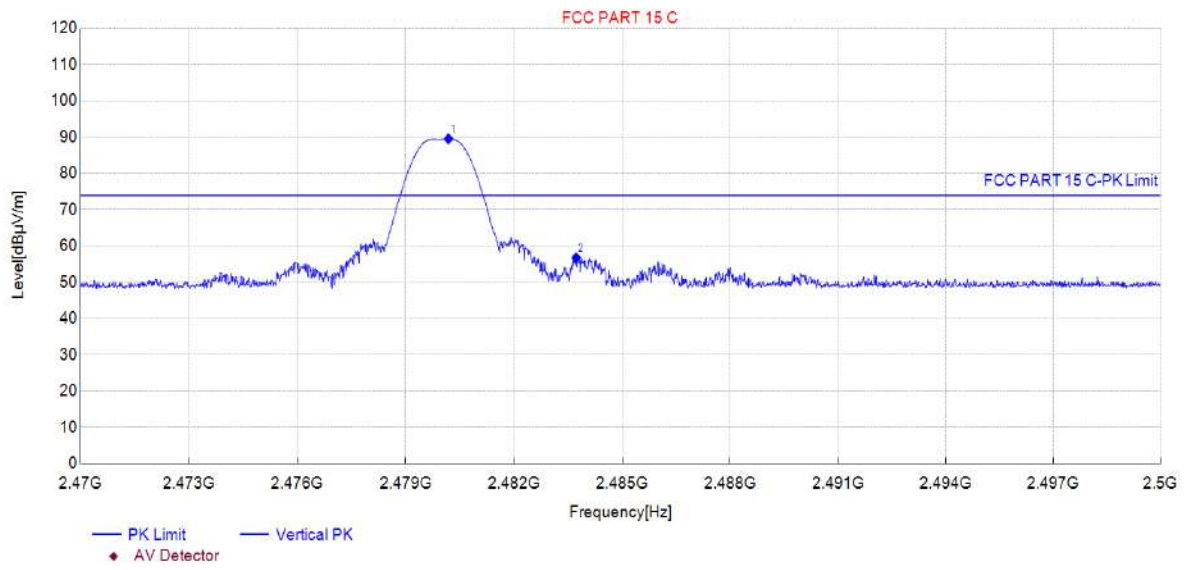
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2378.1000	6.05	41.25	35.20	54.00	12.75	160	274	AV	Vertical	PASS
2	2402.0500	53.46	88.73	35.27	/	/	160	270	AV	Vertical	PASS

Test Mode:	BLE_1M	Test Date:	2025-11-12 ~ 2025-12-10
Test Channel:	2480	Test Engineer:	Stone Zhang
Remark:	/		

Test Graph



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2480.2450	56.74	92.13	35.39	/	/	160	142	PK	Horizontal	PASS
2	2483.9200	23.27	58.68	35.41	74.00	15.32	160	147	PK	Horizontal	PASS

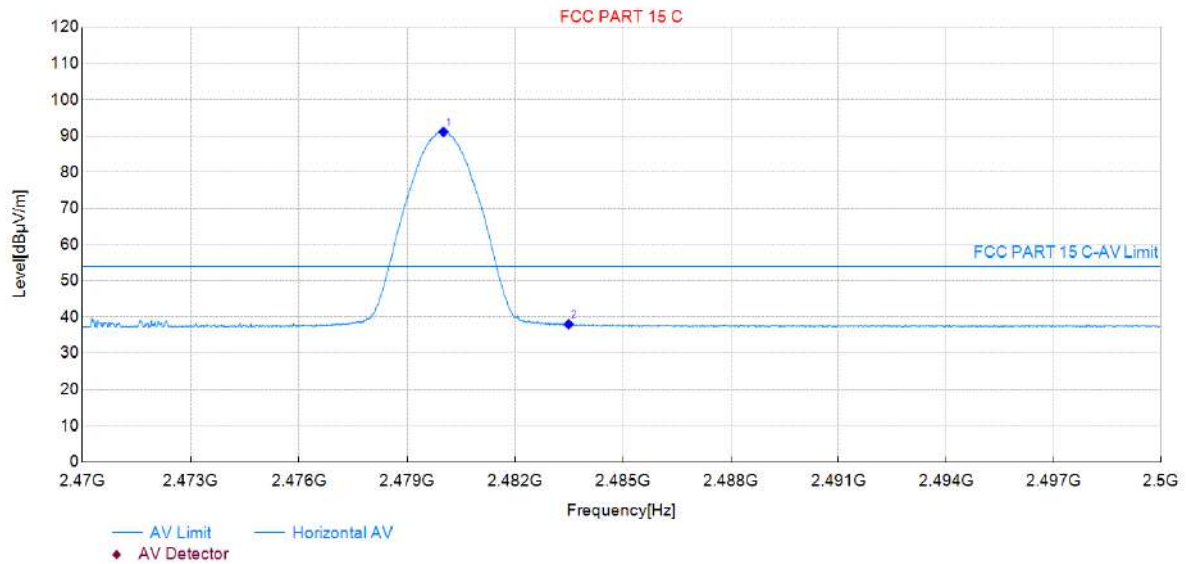


Suspected Data List

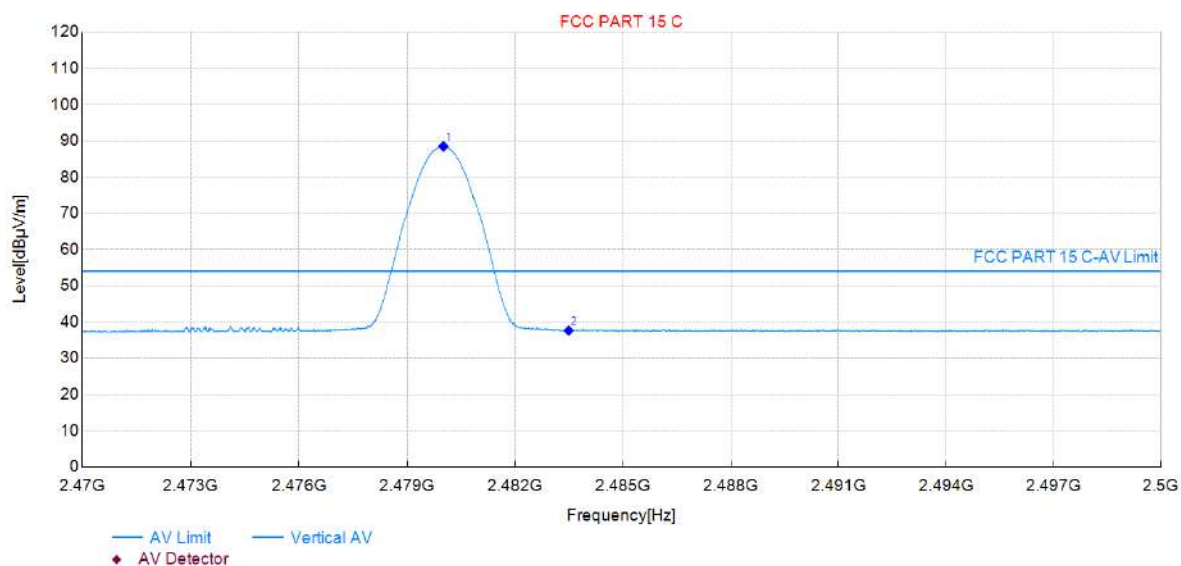
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2480.1850	54.07	89.55	35.48	/	/	160	282	PK	Vertical	PASS
2	2483.7250	21.25	56.75	35.50	74.00	17.25	160	272	PK	Vertical	PASS

Test Mode:	BLE_1M	Test Date:	2025-11-12 ~ 2025-12-10
Test Channel:	2480	Test Engineer:	Stone Zhang
Remark:	/		

Test Graph



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2480.0050	55.70	91.09	35.39	/	/	160	141	AV	Horizontal	PASS
2	2483.4850	2.55	37.96	35.41	54.00	16.04	160	141	AV	Horizontal	PASS

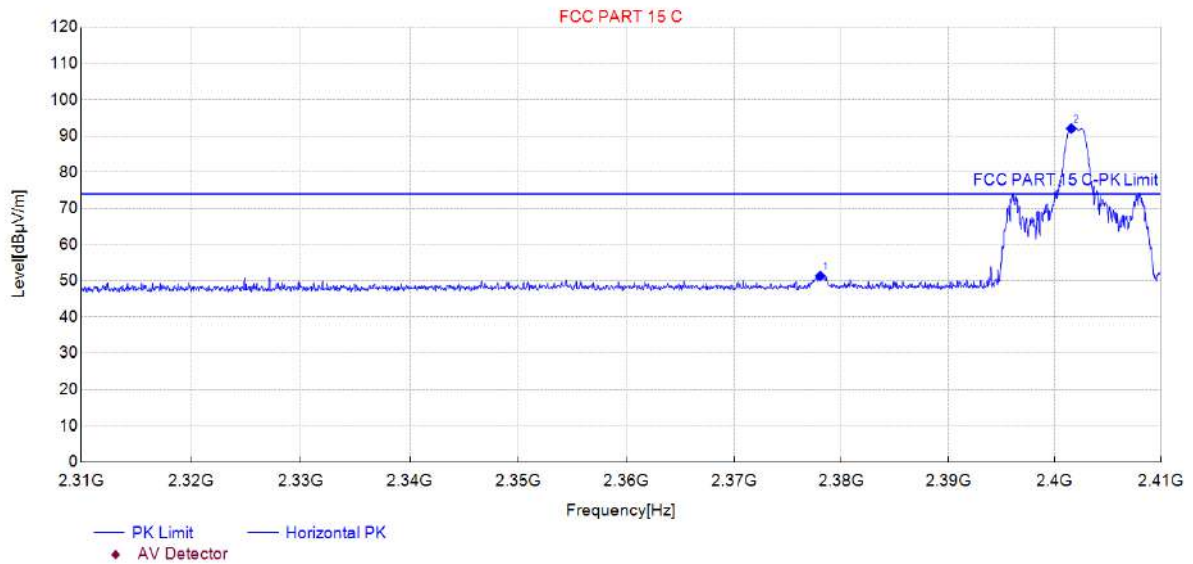


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2480.0050	52.98	88.46	35.48	/	/	160	283	AV	Vertical	PASS
2	2483.4850	2.11	37.61	35.50	54.00	16.39	160	125	AV	Vertical	PASS

BLE_2M

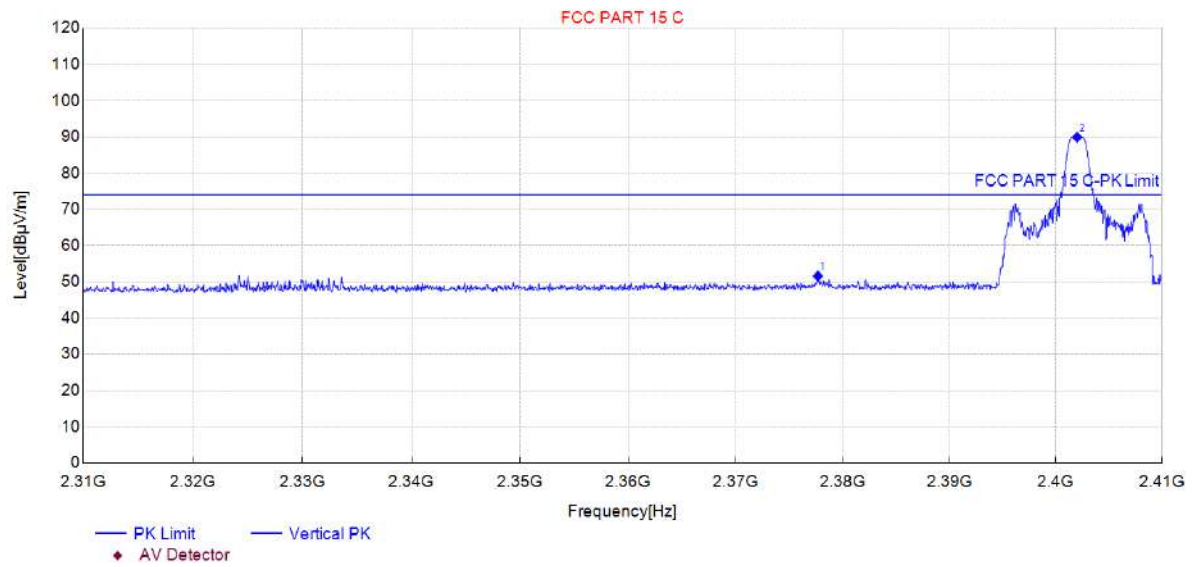
Test Mode:	BLE_2M	Test Date:	2025-11-12 ~ 2025-12-10
Test Channel:	2402	Test Engineer:	Stone Zhang
Remark:	/		

Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2378.0000	16.18	51.33	35.15	74.00	22.67	160	141	PK	Horizontal	PASS
2	2401.5500	56.79	92.00	35.21	/	/	160	141	PK	Horizontal	PASS

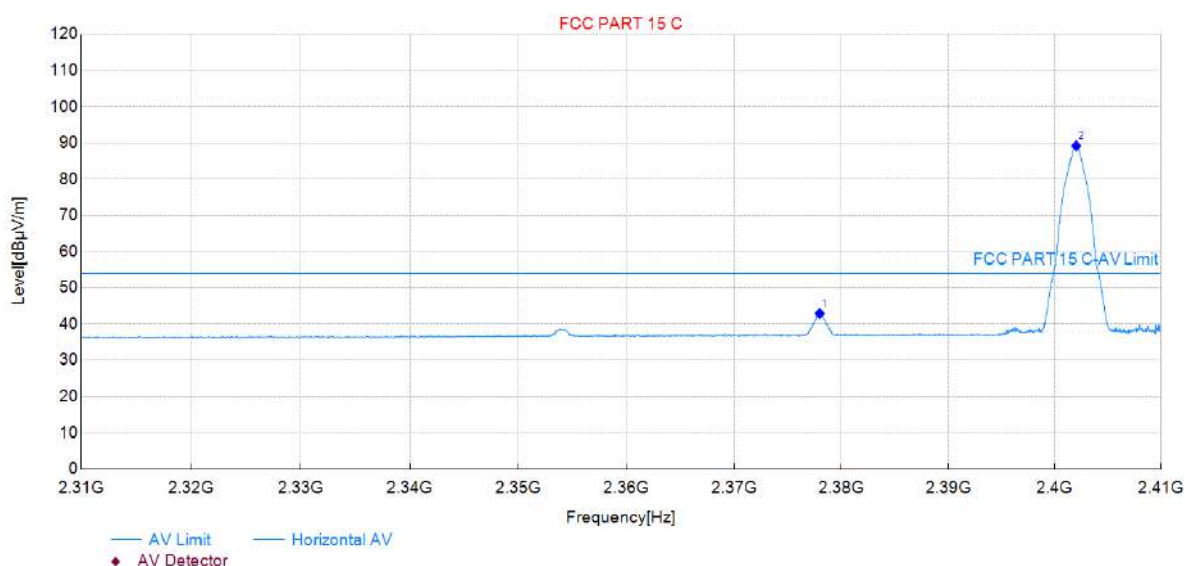


Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2377.6500	16.40	51.60	35.20	74.00	22.40	160	270	PK	Vertical	PASS
2	2402.0000	54.64	89.91	35.27	/	/	160	270	PK	Vertical	PASS

Test Mode:	BLE_2M	Test Date:	2025-11-12 ~ 2025-12-10
Test Channel:	2402	Test Engineer:	Stone Zhang
Remark:	/		

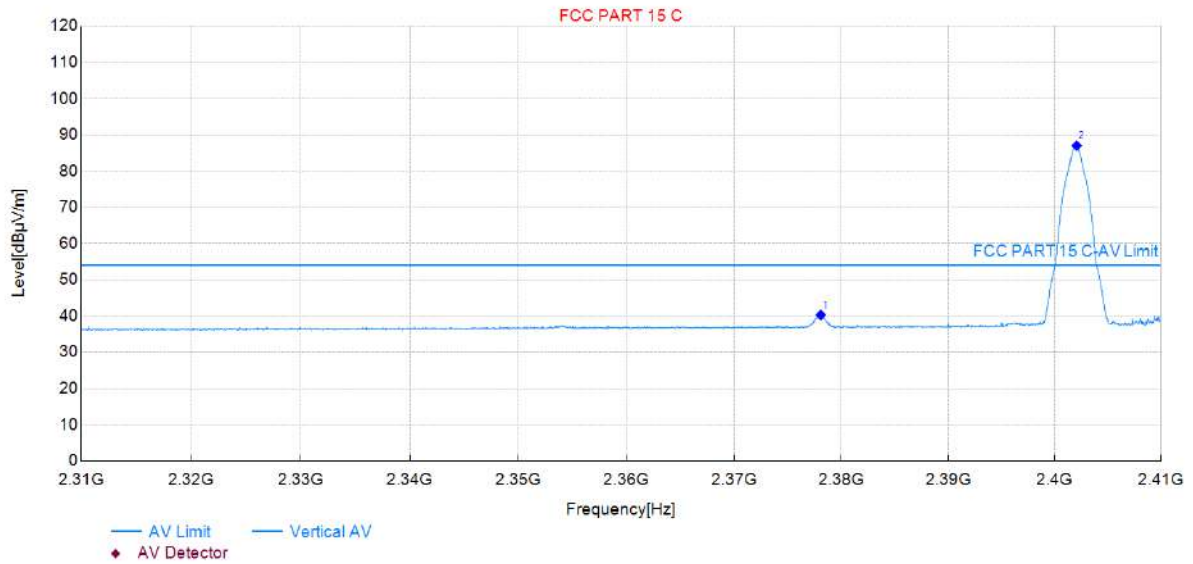
Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2377.9500	7.73	42.88	35.15	54.00	11.12	160	147	AV	Horizontal	PASS
2	2402.0000	54.01	89.22	35.21	/	/	160	137	AV	Horizontal	PASS

Test Graph

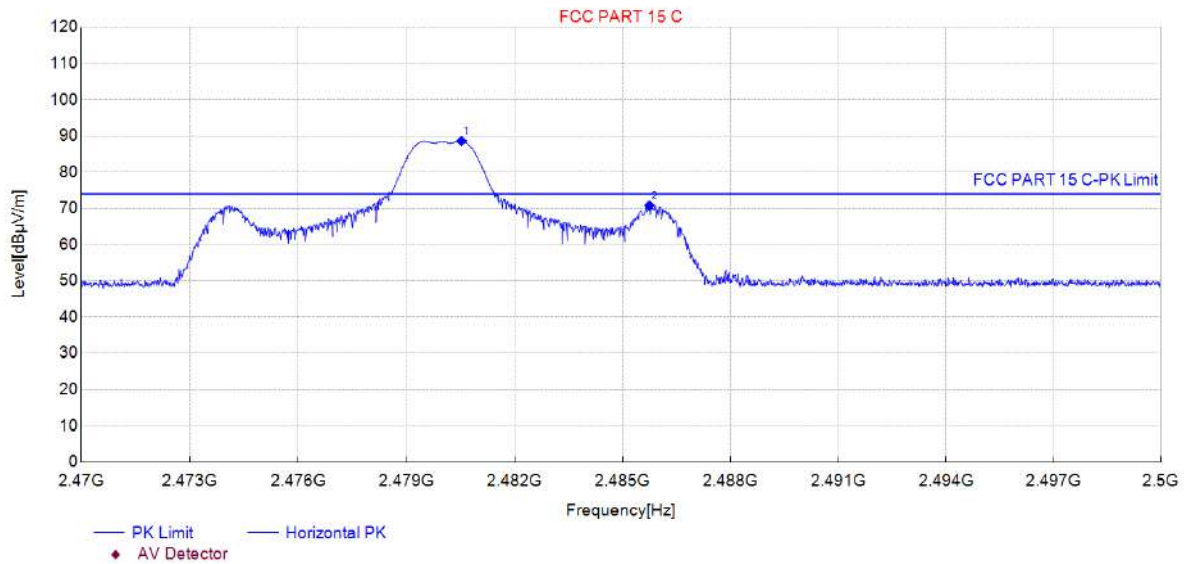


Suspected Data List

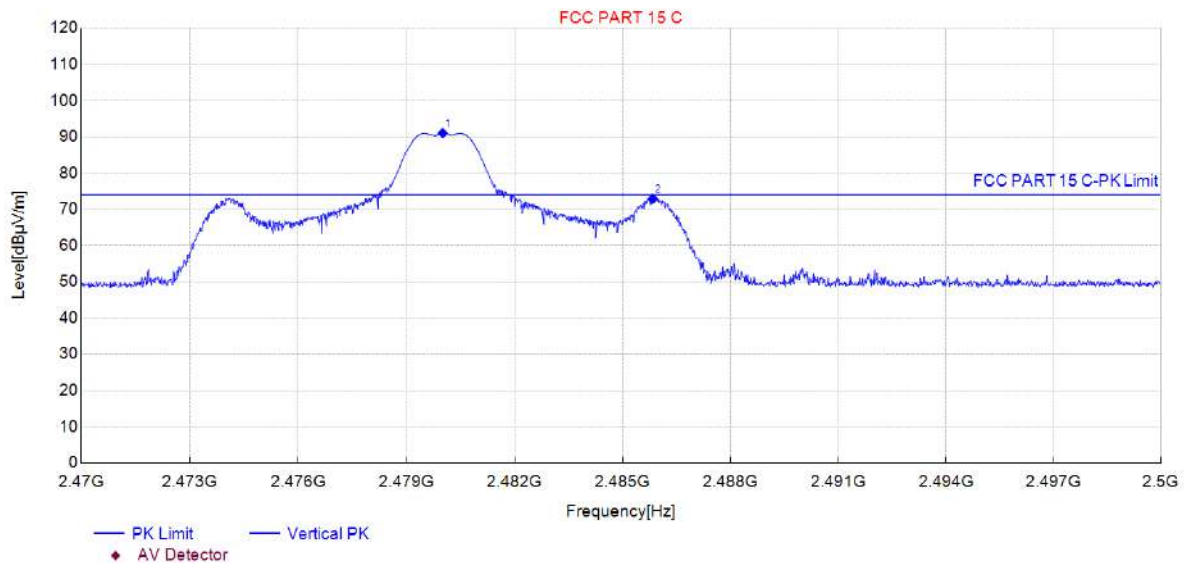
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2378.0500	5.08	40.28	35.20	54.00	13.72	160	278	AV	Vertical	PASS
2	2402.0500	51.79	87.06	35.27	/	/	160	274	AV	Vertical	PASS

Test Mode:	BLE_2M	Test Date:	2025-11-12 ~ 2025-12-10
Test Channel:	2480	Test Engineer:	Stone Zhang
Remark:	/		

Test Graph



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2480.5300	53.23	88.62	35.39	/	/	160	135	PK	Horizontal	PASS
2	2485.7500	35.35	70.76	35.41	74.00	3.24	160	135	PK	Horizontal	PASS

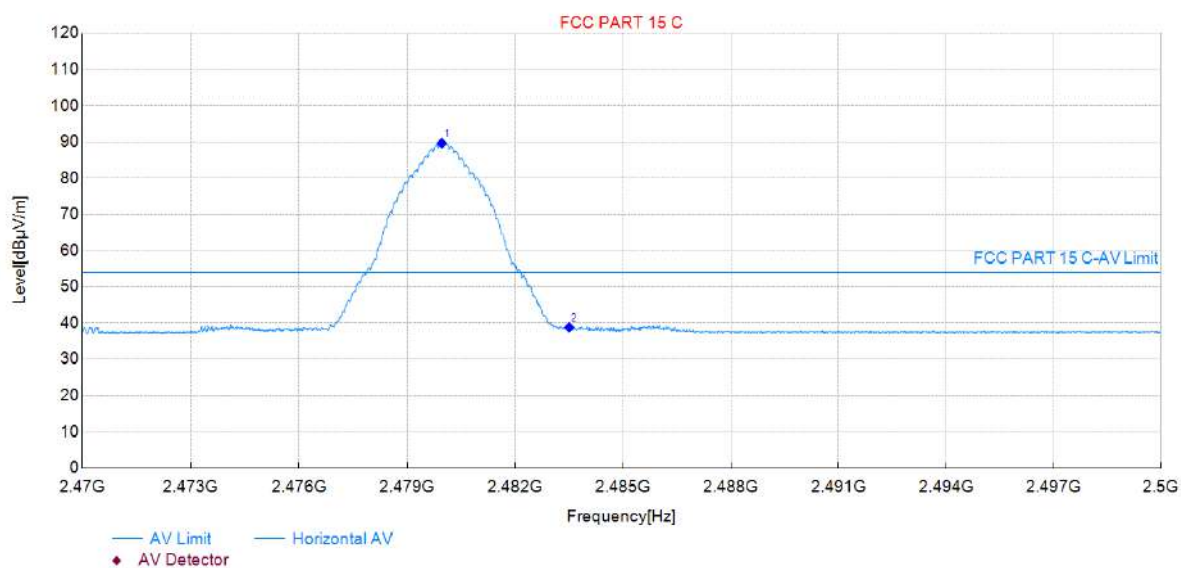


Suspected Data List

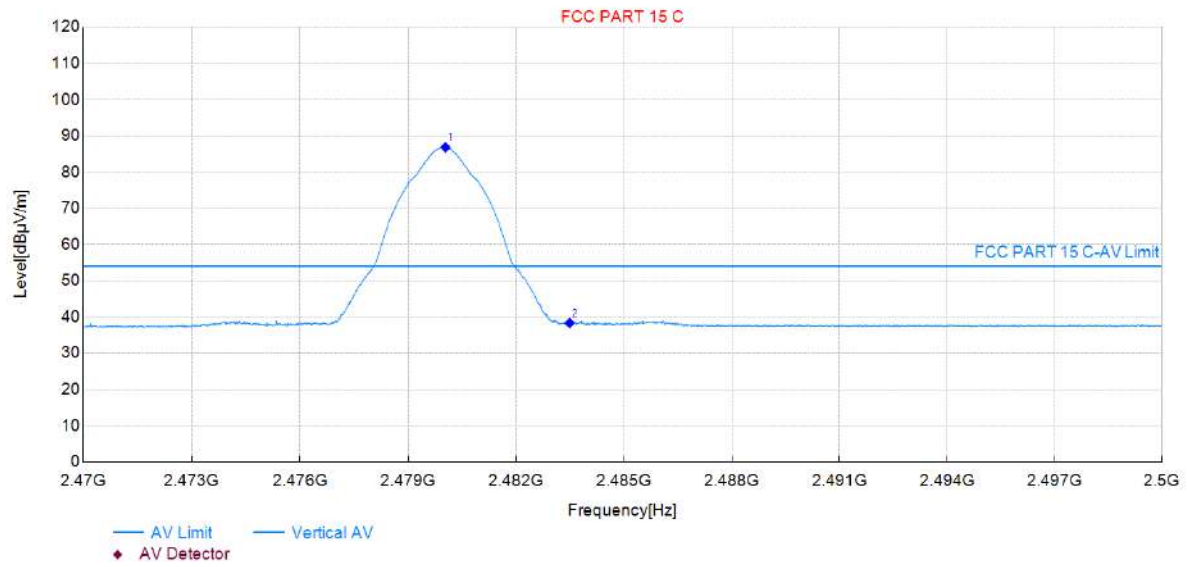
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2480.0050	55.54	91.02	35.48	/	/	160	267	PK	Vertical	PASS
2	2485.8400	37.38	72.88	35.50	74.00	1.12	160	267	PK	Vertical	PASS

Test Mode:	BLE_2M	Test Date:	2025-11-12 ~ 2025-12-10
Test Channel:	2480	Test Engineer:	Stone Zhang
Remark:	/		

Test Graph



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2479.9600	54.24	89.63	35.39	/	/	160	138	AV	Horizontal	PASS
2	2483.5000	3.37	38.78	35.41	54.00	15.22	160	129	AV	Horizontal	PASS



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2480.0350	51.39	86.87	35.48	/	/	160	284	AV	Vertical	PASS
2	2483.4850	2.85	38.35	35.50	54.00	15.65	160	117	AV	Vertical	PASS

7.8. AC Conducted Emissions Measurement

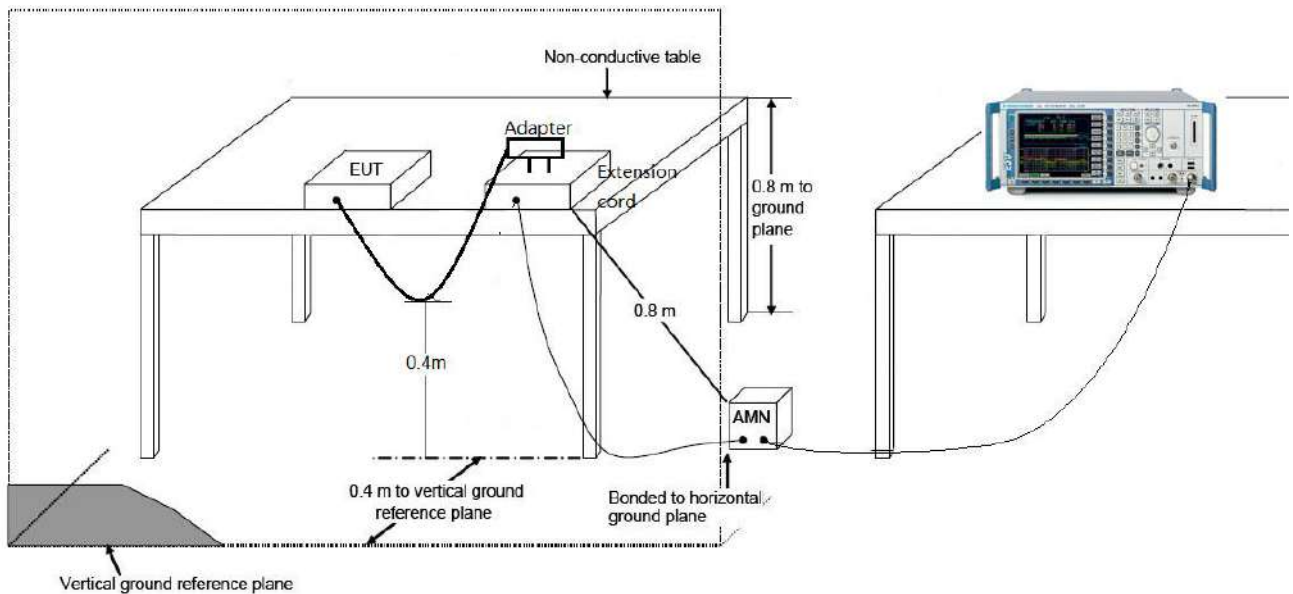
7.8.1. Test Limit

AC power-line conducted emissions limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

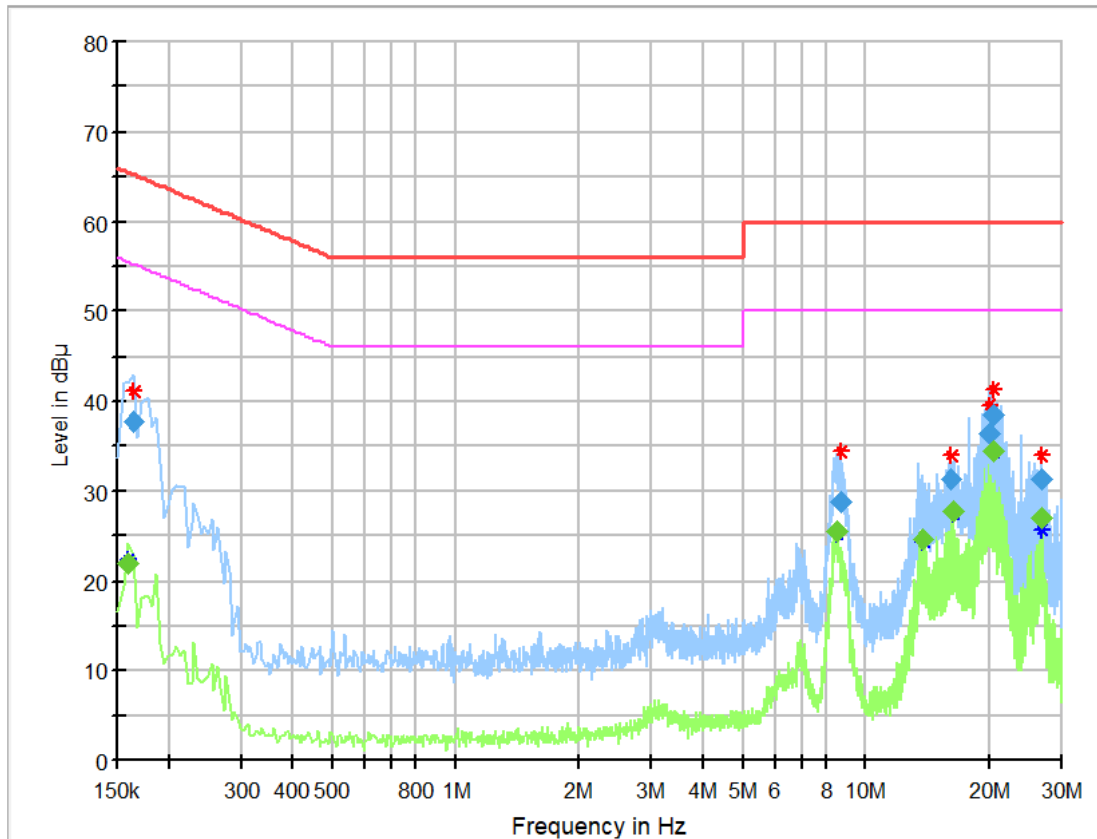
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



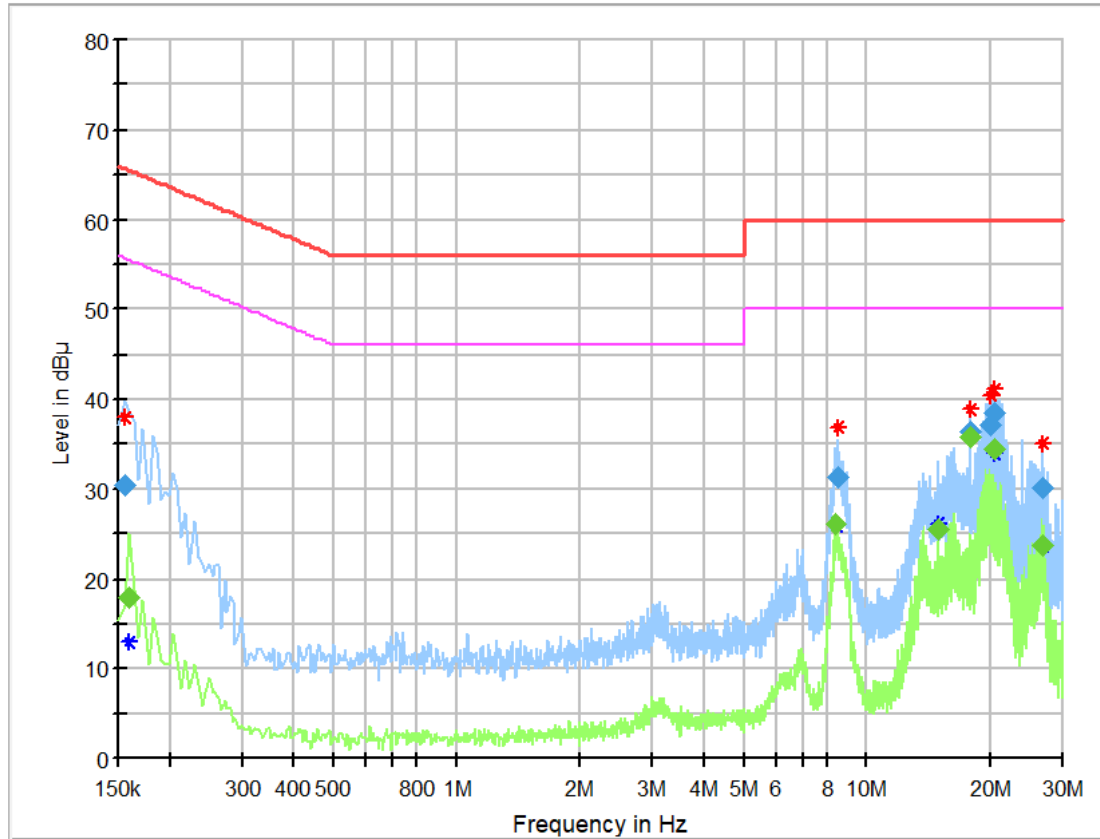
7.8.3. Test Result

EUT:	Phone Style Walkie Talkie	Polarity:	LINE
Model:	SFKTK01WB	Test Date:	2025-12-09
Mode:	Charge Mode	Voltage:	AC120V 60Hz
Environment:	Temp: 24.2°C; Humi:50%	Engineer:	Stone Zhang



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.159000	---	21.93	55.52	33.59	100.0	9.000	L1	ON	9.6
0.163500	37.77	---	65.28	27.52	100.0	9.000	L1	ON	9.6
8.520000	---	25.38	50.00	24.62	100.0	9.000	L1	ON	9.7
8.673000	28.93	---	60.00	31.07	100.0	9.000	L1	ON	9.7
13.848000	---	24.48	50.00	25.52	100.0	9.000	L1	ON	9.8
16.080000	31.22	---	60.00	28.78	100.0	9.000	L1	ON	9.7
16.332000	---	27.73	50.00	22.27	100.0	9.000	L1	ON	9.7
20.071500	36.41	---	60.00	23.59	100.0	9.000	L1	ON	9.7
20.566500	38.48	---	60.00	21.52	100.0	9.000	L1	ON	9.7
20.566500	---	34.33	50.00	15.67	100.0	9.000	L1	ON	9.7
26.880000	---	27.11	50.00	22.89	100.0	9.000	L1	ON	9.5
26.880000	31.24	---	60.00	28.76	100.0	9.000	L1	ON	9.5

EUT:	Phone Style Walkie Talkie	Polarity:	NEUTRAL
Model:	SFKTK01WB	Test Date:	2025-12-09
Mode:	Charge Mode	Voltage:	AC120V 60Hz
Environment:	Temp: 24.2°C; Humi:50%	Engineer:	Stone Zhang



Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154500	30.33	---	65.75	35.43	100.0	9.000	N	ON	9.6
0.159000	---	17.79	55.52	37.73	100.0	9.000	N	ON	9.6
8.430000	---	26.18	50.00	23.82	100.0	9.000	N	ON	9.7
8.493000	31.33	---	60.00	28.67	100.0	9.000	N	ON	9.7
14.928000	---	25.57	50.00	24.43	100.0	9.000	N	ON	9.8
17.916000	36.53	---	60.00	23.47	100.0	9.000	N	ON	9.8
17.916000	---	35.82	50.00	14.18	100.0	9.000	N	ON	9.8
20.031000	36.98	---	60.00	23.02	100.0	9.000	N	ON	9.8
20.485500	38.48	---	60.00	21.52	100.0	9.000	N	ON	9.8
20.566500	---	34.38	50.00	15.62	100.0	9.000	N	ON	9.8
26.871000	---	23.73	50.00	26.27	100.0	9.000	N	ON	9.6
26.871000	30.11	---	60.00	29.89	100.0	9.000	N	ON	9.6

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Phone Style Walkie Talkie (Model: SFKTK01WB)** is in compliance with Part 15C of the FCC Rules.

Statement

1. This report is invalid for the following states: without the special inspection and testing stamp or the official stamp of our institution; without the signature of the report authorized officer; if the report is altered.
2. It is forbidden to copy partial contents of the report except in full without the approval of our institution.
3. The client shall provide the test sample(s) and commission information and be responsible for their authenticity.
4. The report content is only applicable to the tested sample(s) this time.
5. If there are any objections to the report content, please submit them to our company in writing within 15 days from the date of receiving the report.
6. If the reports include both Chinese and English versions, when there are any inconsistencies caused by language, the Chinese version shall prevail.
7. Information about laboratory sites involved in our company:

No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China

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