MEASUREMENT REPORT

FCC PART 15.247 WLAN 802.11b/g/n/ax

Report No.: S20241118761701E24

Issue Date: 06-25-2025

Applicant:	Wallys Communications Technologies Co.,Ltd
Address:	Room 2723,Le Jia building,Jia Rui Xiang No.8, Suzhou Industrial Park, Suzhou, P.R
FCC ID:	2AG7VDR5018S
Product:	Wireless Router Module
Model No.:	DR5018S, DR5018S-DB, DR5018S-5G
FCC Classification:	Digital Transmission System (DTS)
FCC Rule Part(s):	Part 15 Subpart C (15.247)
Test Procedure(s):	ANSI C63.10-2013, KDB 558074 D01v05r02
Result:	Pass
Receipt date:	May 15, 2025
Test Date:	May 16 2025 ~ Jun 12, 2025

Compiled By Stone Zhang.

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Senior Test Engineer

Approved By Line Chen

(Line Chen)
Engineer Manager

FANGGUANG INSPECTION & TESTING CO.,LTD. APPROVED(02)

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 KDB 558074 D01. Test results reported herein relate only to the item(s) tested.

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
S20241118761701E24	Rev. 01	This report is based on report I S20241118761701E06 that the RF module is same, the EUT only changed the 2.4G-WiFi antenna type and antenna gain. The EUT conducted data is refer to original report S20241118761701E06.	06-25-2025

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§2.1033 General Information

Applicant:	Wallys Communications Technologies Co.,Ltd
Applicant Address:	Room 2723,Le Jia building,Jia Rui Xiang No.8, Suzhou Industrial Park, Suzhou, P.R
Manufacturer:	Wallys Communications Technologies Co.,Ltd
Manufacturer Address:	Room 2723,Le Jia building,Jia Rui Xiang No.8, Suzhou Industrial Park, Suzhou, P.R
Test Site:	Fangguang Inspection & Testing Co. Ltd
LAB ID:	CN5037
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:	2AG7VDR5018S
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 radio 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 C63.4-2014.

2. PRODUCT INFORMATION

2.1. Equipment Description

<table>
<tr><td>Product Name:</td><td>Wireless Router Module</td></tr>
<tr><td>Model Name:</td><td>DR5018S</td></tr>
<tr><td>Additional Model:</td><td>DR5018S-DB, DR5018S-5G</td></tr>
<tr><td>Model Description:</td><td>
<table>
<tr><th></th><th>P/N</th><th>Radio</th><th>Frequency</th></tr>
<tr><td>1</td><td>DR5018S-5G</td><td>5Ghz</td><td>1G Ethernet & POE</td></tr>
<tr><td>2</td><td>DR5018S</td><td>2.4Ghz 5Ghz</td><td>2.5G+1G Ethernet & POE</td></tr>
<tr><td>3</td><td>DR5018S-DB</td><td>2.4Ghz 5Ghz</td><td>1G Ethernet & POE</td></tr>
</table>
DR5018S-5G has 5G radio and 1x1G ethernet port and support PD feature
DR5018S has 2.4G,5G radio and 1x2.5G+1x1G ethernet ports and all support PD feature
DR5018S-DB has 2.4G,5G radio and 1x1G ethernet port and support PD feature
</td></tr>
<tr><td>Trade Mark:</td><td>/</td></tr>
<tr><td>Input Voltage Range:</td><td>DC 48V</td></tr>
<tr><td>Wi-Fi Specification:</td><td>802.11b/g/n-HT20/ax-HE20/n-HT40/ax-HE40</td></tr>
</table>

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

Frequency Range:	802.11b/g/n-HT20/ax-HE20: 2412 ~ 2462MHz 802.11n-HT40/ax-HE40:2422 ~ 2452MHz
Channel Number:	802.11b/g/n-HT20/ax-HE20: 11 802.11n-HT40/ax-HE40: 7
Type of Modulation:	802.11b: DSSS 802.11g/n: OFDM 802.11ax: OFDMA
Data Rate:	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0~MCS7 802.11ax: MCS0~MCS11
Antenna Type:	PCB Antenna
Antenna Gain:	Antenna1: 2.70, Antenna2: 2.70

Note:

1. The maximum Antenna Gain was declared by the manufacturer.
2. For other features of this EUT, test report will be issued separately.

2.3. Operation Frequency / Channel List

802.11b/g/n-HT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

EUT was tested with Channel 1, 6 and 11.

802.11n-HT40/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	--	--	--	--

EUT was tested with Channel 3, 6 and 9.

2.4. Description of Available Antennas

1) For 2.4G PCB Antenna

Antenna	Frequency Band (GHz)	Product Number	Tx Paths	Antenna
PCB dipole	2.4	WiFi module	2	Ant 1+Ant 2

Antenna	Frequency Band (MHz)	Tx Paths	Per Chain Max Antenna Gain (dBi)		Beam Forming Directional Gain (dBi)	Directional Gain (dBi)
			Ant 0	Ant 1		
WIFI Ant 1+Ant 2	2412 ~2462	2	2.70	2.70	Nonsupport	5.71

Note：

Unequal Antenna gains, with equal transmit powers. For Antenna gains given by G_1, G_2, …, G_N dBi transmit signals are correlated, then

- Directional gain = $10*\log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/N_{ANT}]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
- Directional Gain(2.4G) = $10*\log[(10^{2.70/20} + 10^{2.70/20})^2/2]$ = 5.71 dBi

2.5. Device Capabilities

This device contains the following capabilities: 2.4GHz WLAN (DTS)&5GHz WLAN (UNII).

Note: 2.4GHz WLAN (DTS) operation is possible in 20MHz/40MHz channel bandwidths. 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. All the test mode and antenna port were tested, the test results for "duty cycles" showed as below is the worst case for all test mode:

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	19.00	19.00	100.00
	Ant1	2437	19.00	19.00	100.00
	Ant1	2462	19.00	19.00	100.00
11G	Ant1	2412	2.10	2.12	99.06
	Ant1	2437	2.10	2.11	99.53
	Ant1	2462	2.10	2.12	99.06
11N20SISO	Ant1	2412	5.43	5.45	99.63
	Ant1	2437	5.43	5.45	99.63
	Ant1	2462	19.00	19.00	100.00
11N40SISO	Ant1	2422	5.43	5.45	99.63
	Ant1	2437	5.43	5.45	99.63
	Ant1	2452	5.43	5.45	99.63
11AX20SISO	Ant1	2412	5.45	5.47	99.63
	Ant1	2437	5.45	5.47	99.63
	Ant1	2462	5.44	5.46	99.63
11AX40SISO	Ant1	2422	5.44	5.46	99.63
	Ant1	2437	5.45	5.47	99.63
	Ant1	2452	19.00	19.00	100.00
11B-CDD	Ant1	2412	19.00	19.00	100.00
	Ant1	2437	19.00	19.00	100.00
	Ant1	2462	19.00	19.00	100.00
11G-CDD	Ant1	2412	2.10	2.11	99.53
	Ant1	2437	2.09	2.11	99.05
	Ant1	2462	2.09	2.11	99.05
11N20MIMO	Ant1	2412	5.43	5.44	99.82

	Ant1	2437	5.42	5.44	99.63
	Ant1	2462	17.00	17.00	100.00
11N40MIMO	Ant1	2422	19.00	19.00	100.00
	Ant1	2437	5.43	5.44	99.82
	Ant1	2452	5.43	5.44	99.82
11AX20MIMO	Ant1	2412	5.44	5.46	99.63
	Ant1	2437	19.00	19.00	100.00
	Ant1	2462	5.45	5.46	99.82
11AX40MIMO	Ant1	2422	5.45	5.47	99.63
	Ant1	2437	5.44	5.46	99.63
	Ant1	2452	5.43	5.46	99.45

2.6. Description of Test Software

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

Test Mode	Ant 1	Ant 2	CDD/MIMO
802.11b	17	17	15
802.11g	17	17	14
802.11n-HT20	17	17	14
802.11n-HT40	17	17	14
802.11ax-HE20	17	17	14
802.11ax-HE40	17	17	14

2.7. Test Mode

The EUT not support partial RU’s and channel puncturing mode.

Test Mode
Mode 1: Transmit by 802.11b Antenna1
Mode 2: Transmit by 802.11g Antenna1
Mode 3: Transmit by 802.11n-HT20 Antenna1
Mode 4: Transmit by 802.11n-HT40 Antenna1
Mode 5: Transmit by 802.11ax-HE20 Antenna1
Mode 6: Transmit by 802.11ax-HE40 Antenna1
Mode 7: Transmit by 802.11b Antenna2
Mode 8: Transmit by 802.11g Antenna2
Mode 9: Transmit by 802.11n-HT20 Antenna2
Mode 10: Transmit by 802.11n-HT40 Antenna2
Mode 11: Transmit by 802.11ax-HE20 Antenna2
Mode 12: Transmit by 802.11ax-HE40 Antenna2
Mode 13: Transmit by 802.11b-CDD
Mode 14: Transmit by 802.11g-CDD
Mode 15: Transmit by 802.11n-HT20 MIMO
Mode 16: Transmit by 802.11n-HT40 MIMO
Mode 17: Transmit by 802.11ax-HE20 MIMO
Mode 18: Transmit by 802.11ax-HE40 MIMO

2.8. Test Configuration

The EUT was tested per the guidance of KDB 558074 D01 v05r02. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted

testing.

2.9. EUT Photo

The EUT external photo, internal photo and test setup photo, please refer to the plots in the S20241118761701-A1/A2/A3.

2.10. EMI Suppression Device(s)/Modifications

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

2.11. 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.

3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), 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 C63.10-2013.

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	2025/07/22
Two-Line V-Network	R&S	ENV 216	FWXGJC-2016-182	1 year	2025/07/23
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2025/09/03

Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Loop Antenna	Schwarzbeck	FMZB 1519B	FWXGJC-2018-015	1 year	2025/07/23
Bi-Log Antenna	R&S	VULB 9168	FGZZ-2024-036	1 year	2025/08/03
Broadband Horn Antenna	R&S	HF907	FWXGJC-2016-267-07	1 year	2025/07/26
Broadband Horn Antenna	Schwarzbeck	BBHA9170	FWXGJC-2018-016	1 year	2025/07/26
EMI Receiver	R&S	ESCI3	FGZZ-2024-033	1 year	2025/07/18
EXA Signal Analyzer	Keysight	N9020A	FWXGJC-2025-006	1 year	2025/07/14
EXA Signal Analyzer	Keysight	N9010B	FWXGJC-2018-010	1 year	2025/07/14
Pre-Amplifier	Tonscend	TAP0118048	FGZZ-2024-037	1 year	2025/08/19
Pre-Amplifier	Chengyi	EMC184055SE	FWXGJC-2018-018	1 year	2025/07/23
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-387	1 year	2025/09/03
Anechoic Chamber	SAEMC	FSAC318	FWXGJC-2024-035	3 year	2027/06/02

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Keysight	N9010B	FWXGJC-2018-010	1 year	2025/07/15
RF Control Unit	Toncend	JS0806-2	FWXGJC-2018-013	1 year	2025/05/19
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2025/09/03

Test Software	Manufacturer	Version	Asset No.	Function
JS1120-3 Test System	tonscend	V3.3.10	/	Conducted Test
JS32	tonscend	V5.0.0	/	Radiated Emission
EMI Test Software	R&S	9.26.00	/	Conducted Emission

Auxiliary Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Filter	Tonscend	ZBSF6	07247867	1 year	2025/07/26
Filter	Tonscend	ZHPF6	07233297	1 year	2025/07/26
Attenuator	Tonscend	10dB	/	1 year	2025/07/26
RF Cable	Tonscend	T-1	/	1 year	2025/07/26

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 (Below 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 (Above 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	≥ 500kHz	Conducted	Data refer to S20241118761701E06	/
15.247(b)(3)	Output Power	≤ 30dBm		Data refer to S20241118761701E06	/
15.247(e)	Power Spectral Density	≤ 8dBm/3kHz		Data refer to S20241118761701E06	/
15.247(d)	Band Edge	≥ 30dBc		Data refer to S20241118761701E06	/
15.247(d)	Out-of-Band Emissions	≥ 30dBc		Data refer to S20241118761701E06	/
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS GEN [8.9])	Radiated	Pass	Section 7.2&7.3
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits (RSS GEN [8.8])	Line Conducted	Not Applicable	Section 7.4

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. Radiated Spurious Emission Measurement

7.2.1. 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

7.2.2. Test Procedure Used

ANSI C63.10-2013 – Section 6.6.4.3

7.2.3. 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

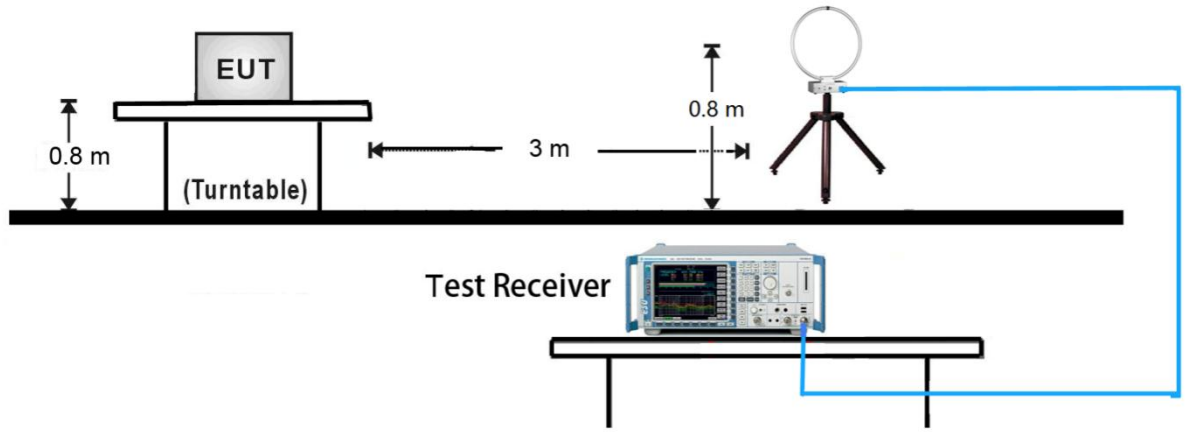
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

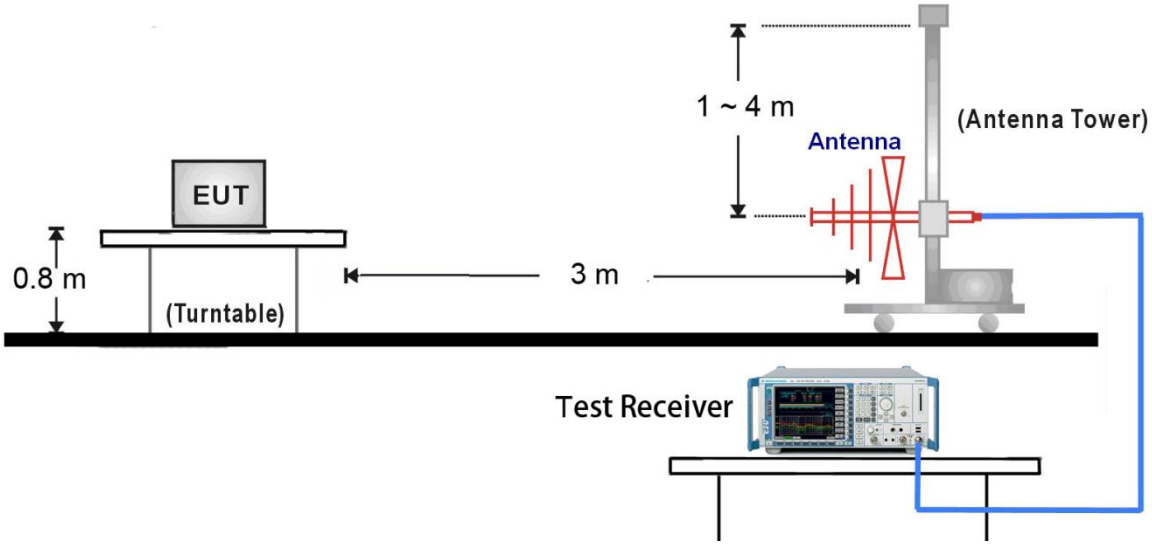
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be ≥ 2 x span / RBW)
6. Sweep time = auto
7. Trace (RMS) averaging was performed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

7.2.4. Test Setup

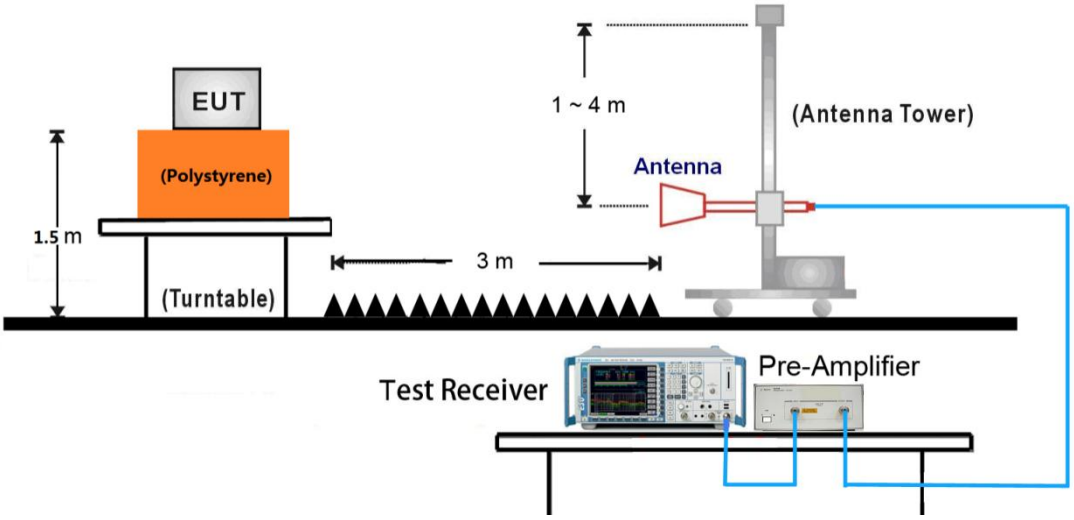
9kHz ~ 30MHz Test Setup:



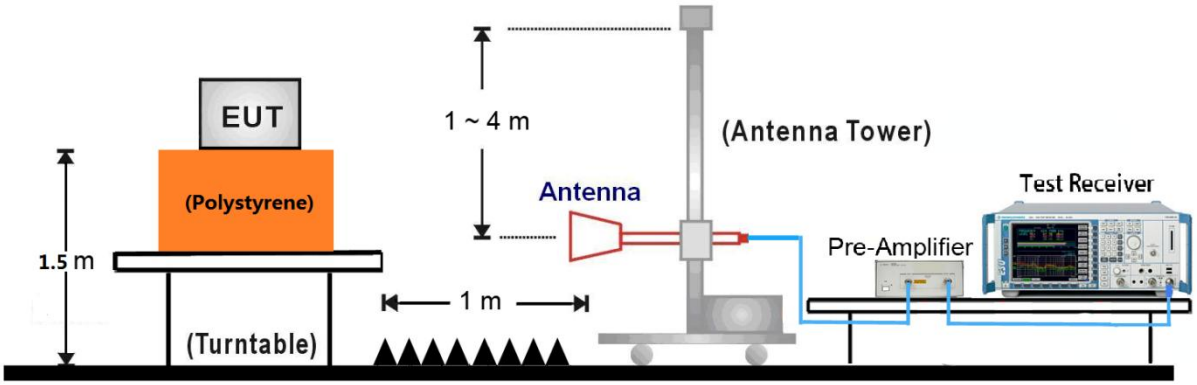
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:

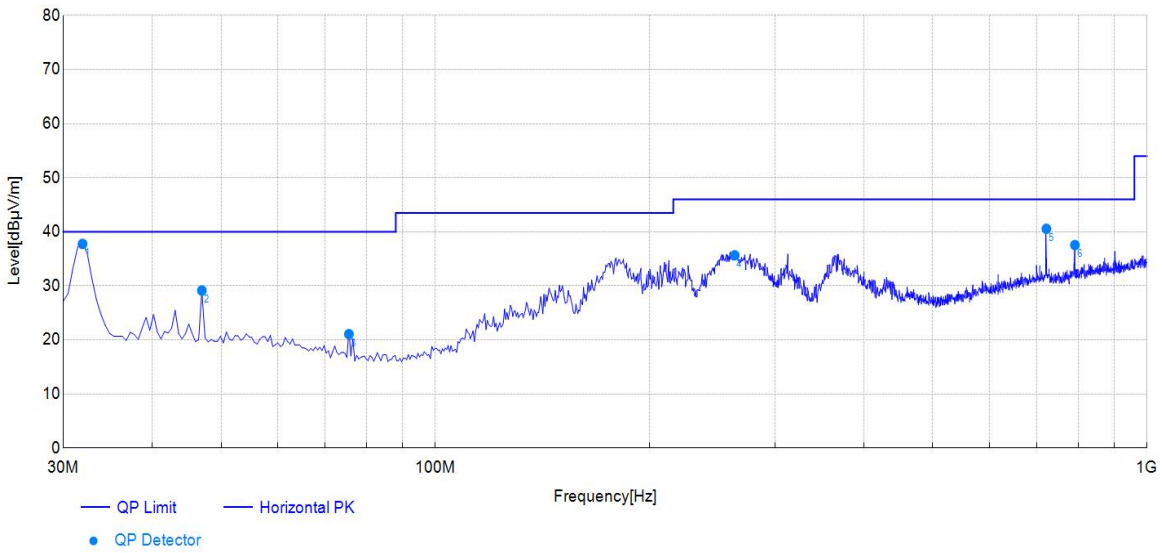


7.2.5. Test Result

The worst case of Radiated Emission below 1GHz:

30MHz – 1GHz Test Data

EUT:	Wireless Router Module	Polarity:	Horizontal
Model:	DR5018S	Test Date	2025/5/20
Mode:	Transmit by 802.11b-CDD at Channel 2412MHz	Voltage:	DC 48V
Environment:	Temp: 23.1℃; Humi:39%	Engineer:	Stone Zhang



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 [°]	Pol	Verdict
1	31.94	14.00	23.77	37.77	40.00	2.23	100	2	Horizontal	PASS
2	46.98	14.56	14.59	29.15	40.00	10.85	100	348	Horizontal	PASS
3	75.61	11.19	9.89	21.08	40.00	18.92	100	348	Horizontal	PASS
4	263.40	14.14	21.52	35.66	46.00	10.34	100	96	Horizontal	PASS
5	721.96	23.52	17.04	40.56	46.00	5.44	100	306	Horizontal	PASS
6	791.83	24.35	13.2	37.55	46.00	8.45	100	348	Horizontal	PASS

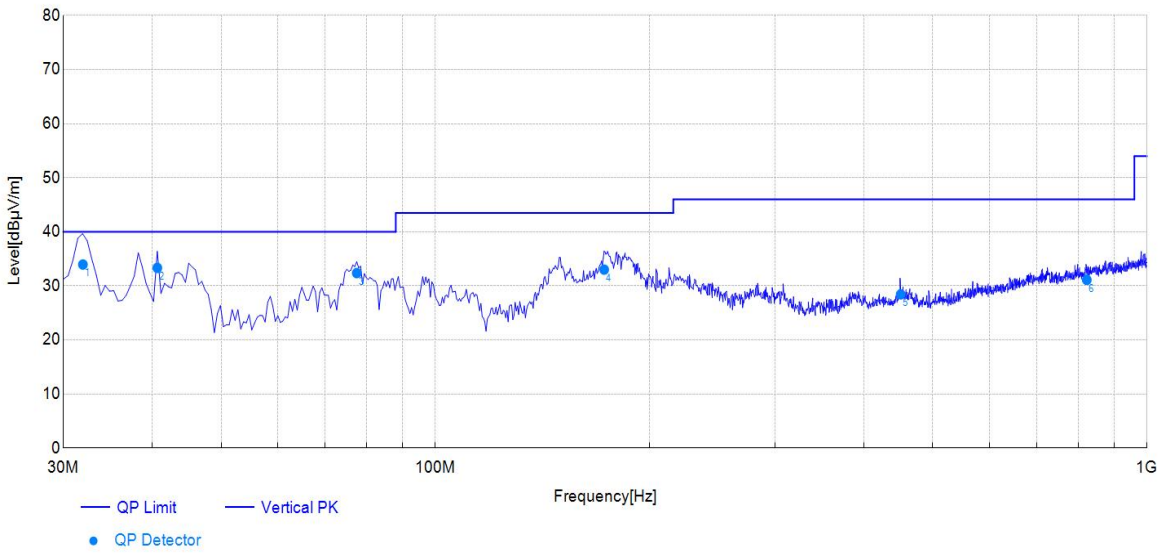
Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

(3) 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 ~ 25GHz), therefore no data appear in the report.

EUT:	Wireless Router Module	Polarity:	Vertical
Model:	DR5018S	Test Date	2025/5/20
Mode:	Transmit by 802.11b-CDD at Channel 2412MHz	Voltage:	DC 48V
Environment:	Temp: 23.1℃; Humi:39%	Engineer:	Stone Zhang



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 [°]	Pol	Verdict
1	31.97	14.00	19.95	33.95	40.00	6.05	199.9	105	Vertical	PASS
2	40.68	14.88	18.46	33.34	40.00	6.66	100	61	Vertical	PASS
3	77.55	10.88	21.49	32.37	40.00	7.63	200	100	Vertical	PASS
4	172.66	14.37	18.64	33.01	43.50	10.49	200	0	Vertical	PASS
5	450.71	18.95	9.48	28.43	46.00	17.57	100	119	Vertical	PASS
6	822.89	24.84	6.27	31.11	46.00	14.89	100	113	Vertical	PASS

Note:

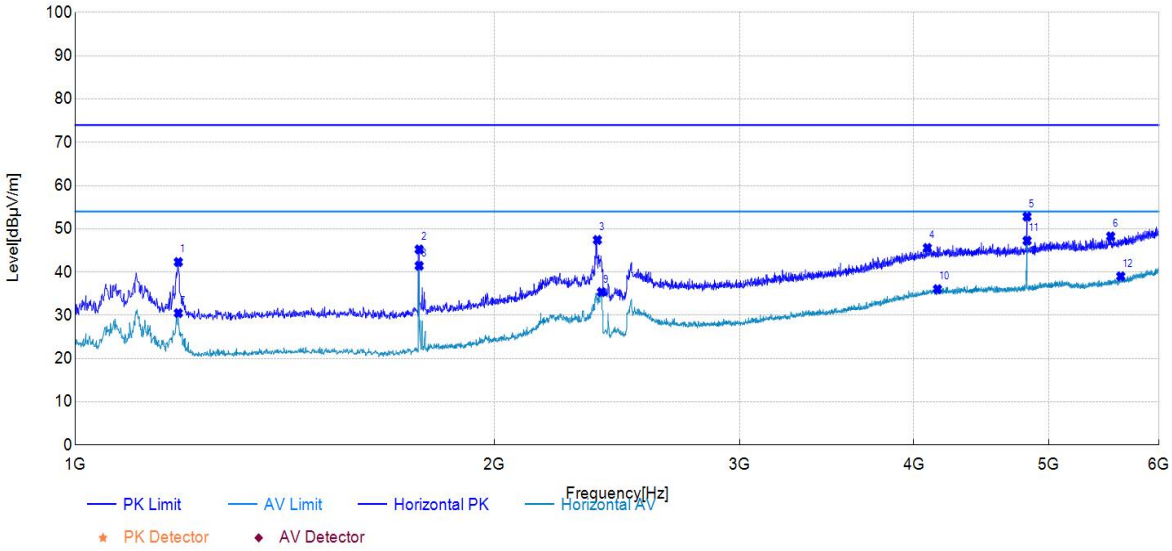
(1) Level=Reading + Factor

(2) Margin=Limit-Level

(3) 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 ~ 25GHz), therefore no data appear in the report.

1GHz-6GHz

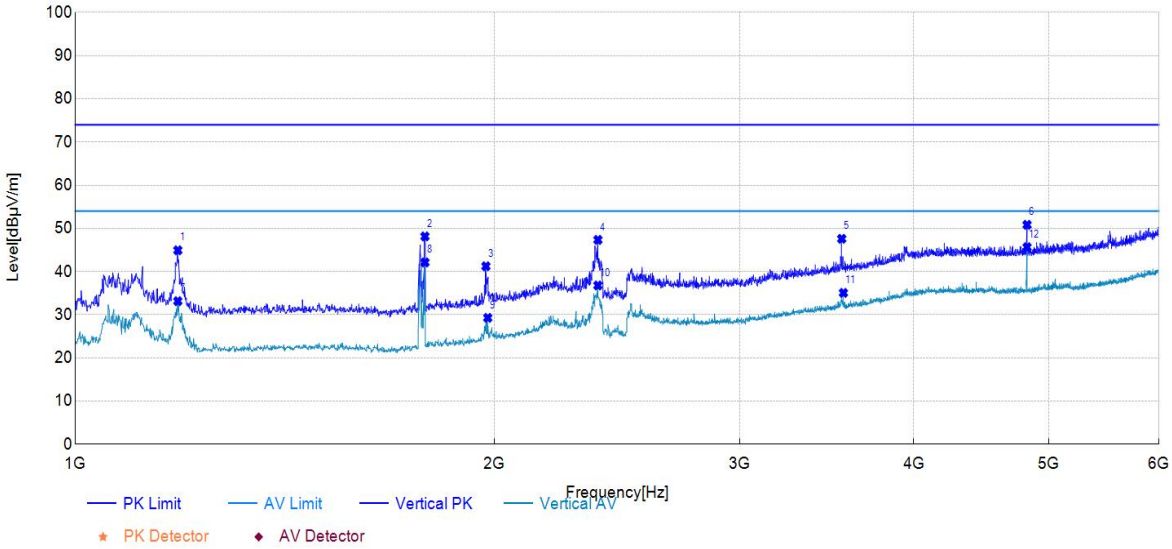
Test Mode:	802.11b-Antenna1	Test Date:	2025-05-19 ~ 2025-06-11
Test Channel:	01	Test Engineer:	Stone Zhang



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	1186.00	65.81	42.31	-23.50	74.00	31.69	150	139	PK	Horizontal	PASS
2	1766.00	65.01	45.24	-19.77	74.00	28.76	150	4	PK	Horizontal	PASS
3	2371.00	63.88	47.42	-16.46	74.00	26.58	150	21	PK	Horizontal	PASS
4	4091.00	53.72	45.58	-8.14	74.00	28.42	150	186	PK	Horizontal	PASS
5	4824.00	59.54	52.82	-6.72	74.00	21.18	150	0	PK	Horizontal	PASS
6	5539.00	54.14	48.26	-5.88	74.00	25.74	150	39	PK	Horizontal	PASS
7	1186.00	54.01	30.51	-23.50	54.00	23.49	150	17	AV	Horizontal	PASS
8	1766.00	61.21	41.44	-19.77	54.00	12.56	150	4	AV	Horizontal	PASS
9	2387.00	51.75	35.38	-16.37	54.00	18.62	150	25	AV	Horizontal	PASS
10	4160.00	44.08	36.05	-8.03	54.00	17.95	150	179	AV	Horizontal	PASS
11	4824.00	53.97	47.25	-6.72	54.00	6.75	150	0	AV	Horizontal	PASS
12	5632.00	44.76	39.02	-5.74	54.00	14.98	150	293	AV	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

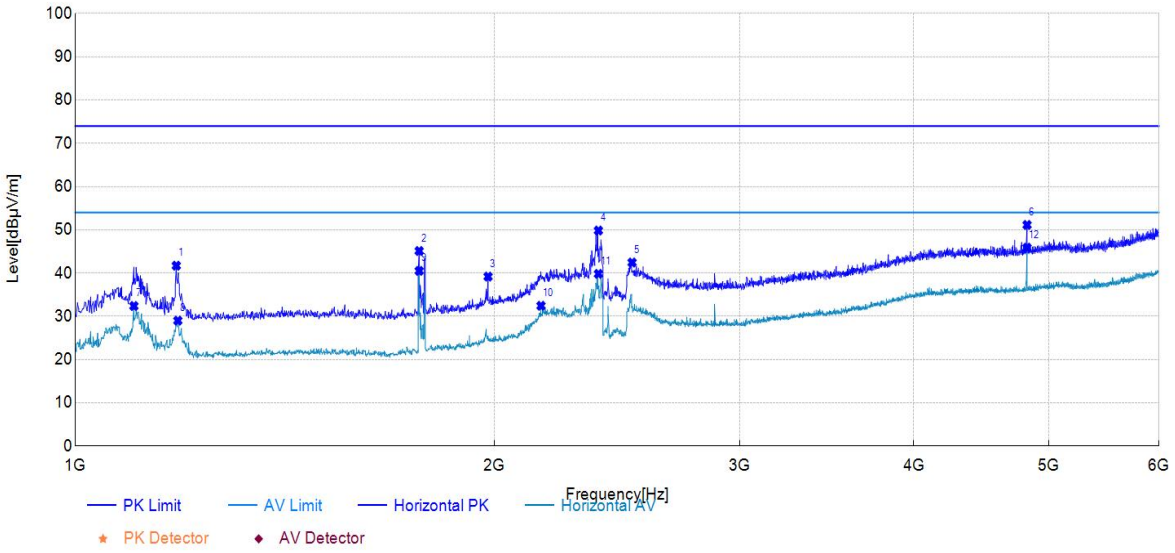


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1185.00	67.45	44.93	-22.52	74.00	29.07	150	17	PK	Vertical	PASS
2	1783.00	67.19	48.14	-19.05	74.00	25.86	150	103	PK	Vertical	PASS
3	1972.00	59.22	41.23	-17.99	74.00	32.77	150	106	PK	Vertical	PASS
4	2373.00	63.91	47.34	-16.57	74.00	26.66	150	203	PK	Vertical	PASS
5	3551.00	58.77	47.59	-11.18	74.00	26.41	150	95	PK	Vertical	PASS
6	4824.00	58.10	50.82	-7.28	74.00	23.18	150	177	PK	Vertical	PASS
7	1185.00	55.67	33.15	-22.52	54.00	20.85	150	225	AV	Vertical	PASS
8	1783.00	61.17	42.12	-19.05	54.00	11.88	150	103	AV	Vertical	PASS
9	1978.00	47.21	29.28	-17.93	54.00	24.72	150	99	AV	Vertical	PASS
10	2373.00	53.35	36.78	-16.57	54.00	17.22	150	203	AV	Vertical	PASS
11	3561.00	46.16	35.06	-11.10	54.00	18.94	150	80	AV	Vertical	PASS
12	4824.00	52.92	45.64	-7.28	54.00	8.36	150	76	AV	Vertical	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

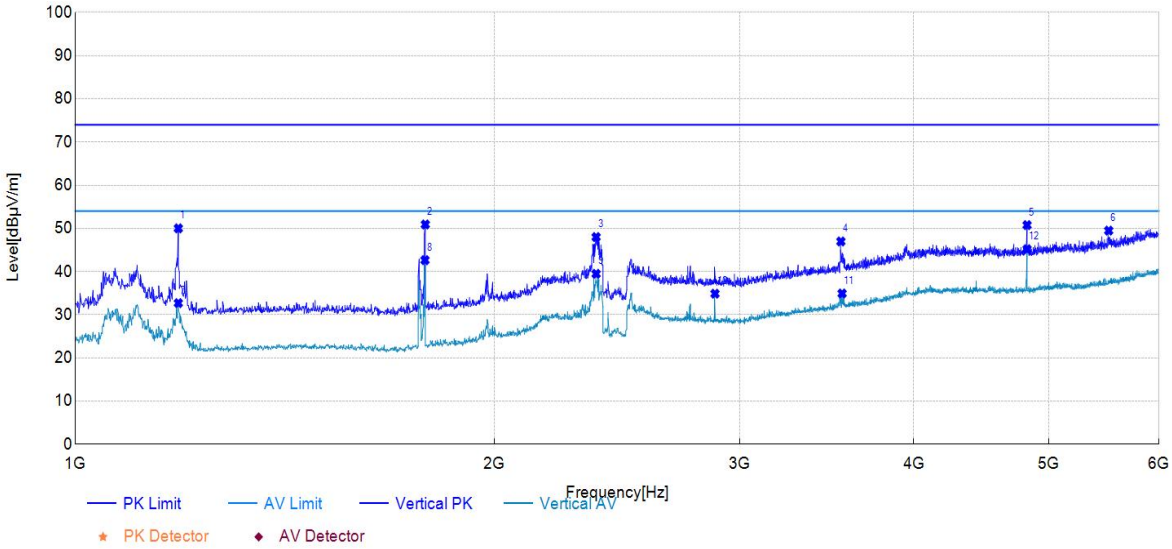
Test Mode:	802.11b-Antenna1	Test Date:	2025-05-19 ~ 2025-06-11
Test Channel:	06	Test Engineer:	Stone Zhang



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	1182.00	65.22	41.70	-23.52	74.00	32.30	150	249	PK	Horizontal	PASS
2	1766.00	64.88	45.11	-19.77	74.00	28.89	150	256	PK	Horizontal	PASS
3	1979.00	57.53	39.18	-18.35	74.00	34.82	150	116	PK	Horizontal	PASS
4	2375.00	66.27	49.83	-16.44	74.00	24.17	150	23	PK	Horizontal	PASS
5	2511.00	58.20	42.43	-15.77	74.00	31.57	150	0	PK	Horizontal	PASS
6	4824.00	57.85	51.13	-6.72	74.00	22.87	150	9	PK	Horizontal	PASS
7	1102.00	56.21	32.38	-23.83	54.00	21.62	150	165	AV	Horizontal	PASS
8	1185.00	52.51	29.00	-23.51	54.00	25.00	150	0	AV	Horizontal	PASS
9	1766.00	60.27	40.50	-19.77	54.00	13.50	150	260	AV	Horizontal	PASS
10	2160.00	49.82	32.43	-17.39	54.00	21.57	150	323	AV	Horizontal	PASS
11	2375.00	56.26	39.82	-16.44	54.00	14.18	150	23	AV	Horizontal	PASS
12	4824.00	52.57	45.85	-6.72	54.00	8.15	150	3	AV	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

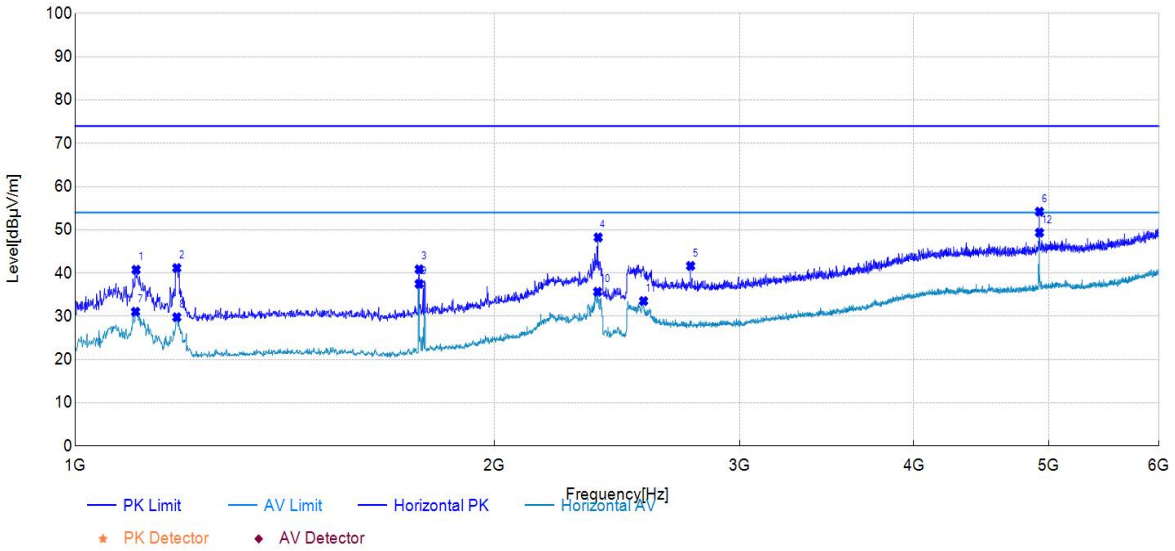


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1186.00	72.53	50.01	-22.52	74.00	23.99	150	229	PK	Vertical	PASS
2	1784.00	69.95	50.91	-19.04	74.00	23.09	150	354	PK	Vertical	PASS
3	2366.00	64.58	47.99	-16.59	74.00	26.01	150	162	PK	Vertical	PASS
4	3546.00	58.19	46.97	-11.22	74.00	27.03	150	107	PK	Vertical	PASS
5	4824.00	58.04	50.76	-7.28	74.00	23.24	150	214	PK	Vertical	PASS
6	5521.00	55.39	49.48	-5.91	74.00	24.52	150	299	PK	Vertical	PASS
7	1186.00	55.21	32.69	-22.52	54.00	21.31	150	229	AV	Vertical	PASS
8	1783.00	61.69	42.64	-19.05	54.00	11.36	150	356	AV	Vertical	PASS
9	2366.00	56.06	39.47	-16.59	54.00	14.53	150	162	AV	Vertical	PASS
10	2880.00	49.62	34.87	-14.75	54.00	19.13	150	360	AV	Vertical	PASS
11	3553.00	46.08	34.92	-11.16	54.00	19.08	150	118	AV	Vertical	PASS
12	4824.00	52.46	45.18	-7.28	54.00	8.82	150	210	AV	Vertical	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

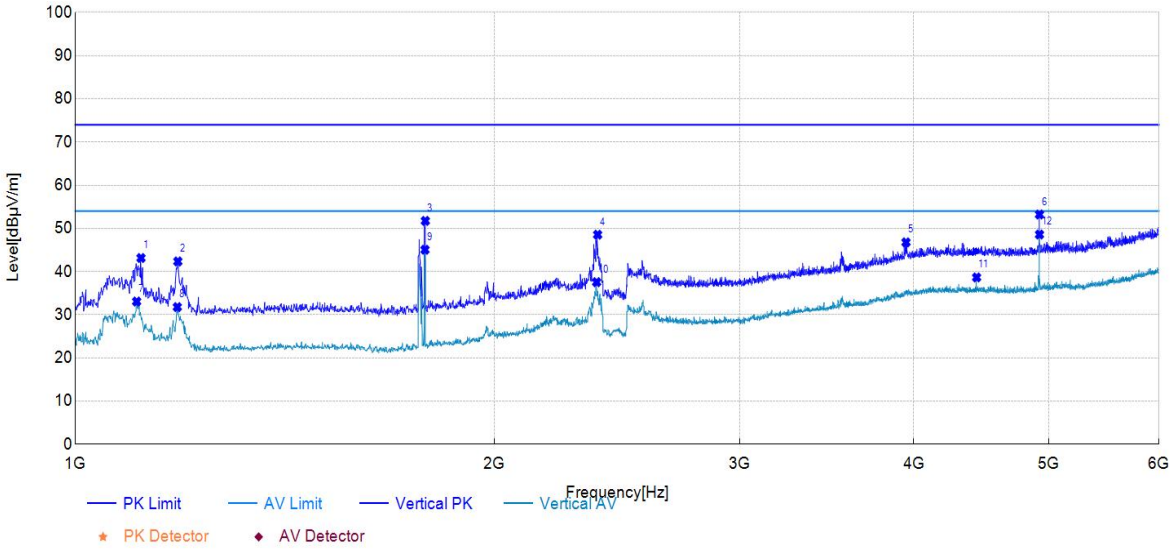
Test Mode:	802.11b-Antenna1	Test Date:	2025-05-19 ~ 2025-06-11
Test Channel:	11	Test Engineer:	Stone Zhang



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	1106.00	64.57	40.76	-23.81	74.00	33.24	150	24	PK	Horizontal	PASS
2	1183.00	64.68	41.16	-23.52	74.00	32.84	150	120	PK	Horizontal	PASS
3	1766.00	60.64	40.87	-19.77	74.00	33.13	150	334	PK	Horizontal	PASS
4	2374.00	64.68	48.24	-16.44	74.00	25.76	150	17	PK	Horizontal	PASS
5	2766.00	56.83	41.65	-15.18	74.00	32.35	150	0	PK	Horizontal	PASS
6	4924.00	60.58	54.19	-6.39	74.00	19.81	150	6	PK	Horizontal	PASS
7	1105.00	54.87	31.05	-23.82	54.00	22.95	150	24	AV	Horizontal	PASS
8	1183.00	53.30	29.78	-23.52	54.00	24.22	150	324	AV	Horizontal	PASS
9	1766.00	57.26	37.49	-19.77	54.00	16.51	150	334	AV	Horizontal	PASS
10	2372.00	52.12	35.67	-16.45	54.00	18.33	150	35	AV	Horizontal	PASS
11	2559.00	49.17	33.53	-15.64	54.00	20.47	150	354	AV	Horizontal	PASS
12	4924.00	55.73	49.34	-6.39	54.00	4.66	150	1	AV	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

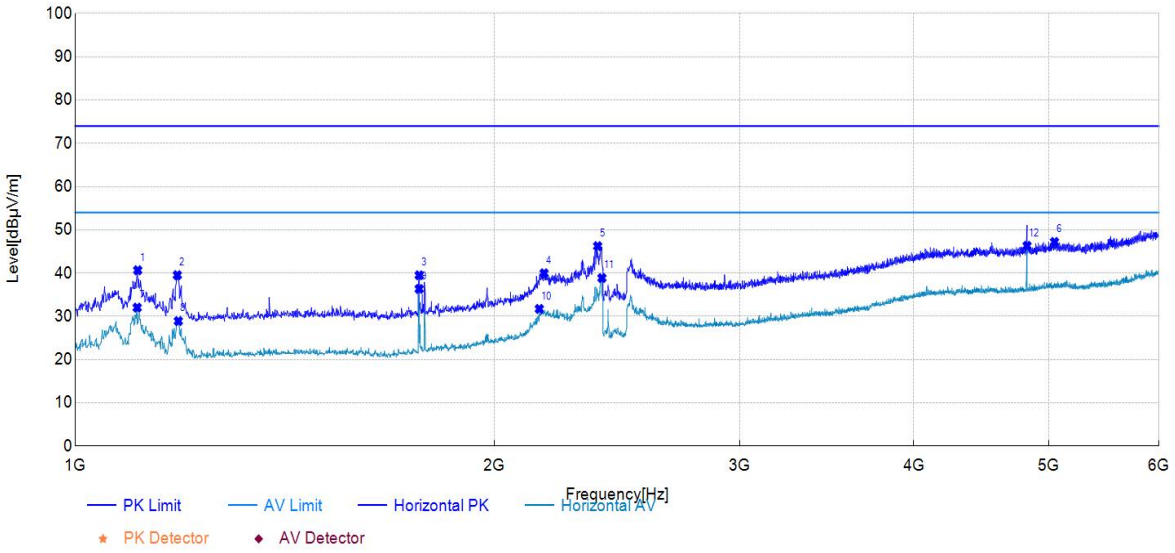


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1115.00	65.89	43.14	-22.75	74.00	30.86	150	278	PK	Vertical	PASS
2	1185.00	64.87	42.35	-22.52	74.00	31.65	150	74	PK	Vertical	PASS
3	1784.00	70.78	51.74	-19.04	74.00	22.26	150	286	PK	Vertical	PASS
4	2372.00	65.11	48.54	-16.57	74.00	25.46	150	360	PK	Vertical	PASS
5	3949.00	55.34	46.77	-8.57	74.00	27.23	150	88	PK	Vertical	PASS
6	4924.00	60.25	53.22	-7.03	74.00	20.78	150	162	PK	Vertical	PASS
7	1107.00	55.83	33.06	-22.77	54.00	20.94	150	327	AV	Vertical	PASS
8	1184.00	54.30	31.78	-22.52	54.00	22.22	150	85	AV	Vertical	PASS
9	1783.00	64.10	45.05	-19.05	54.00	8.95	150	286	AV	Vertical	PASS
10	2368.00	54.13	37.54	-16.59	54.00	16.46	150	162	AV	Vertical	PASS
11	4438.00	46.28	38.64	-7.64	54.00	15.36	150	29	AV	Vertical	PASS
12	4924.00	55.61	48.58	-7.03	54.00	5.42	150	162	AV	Vertical	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

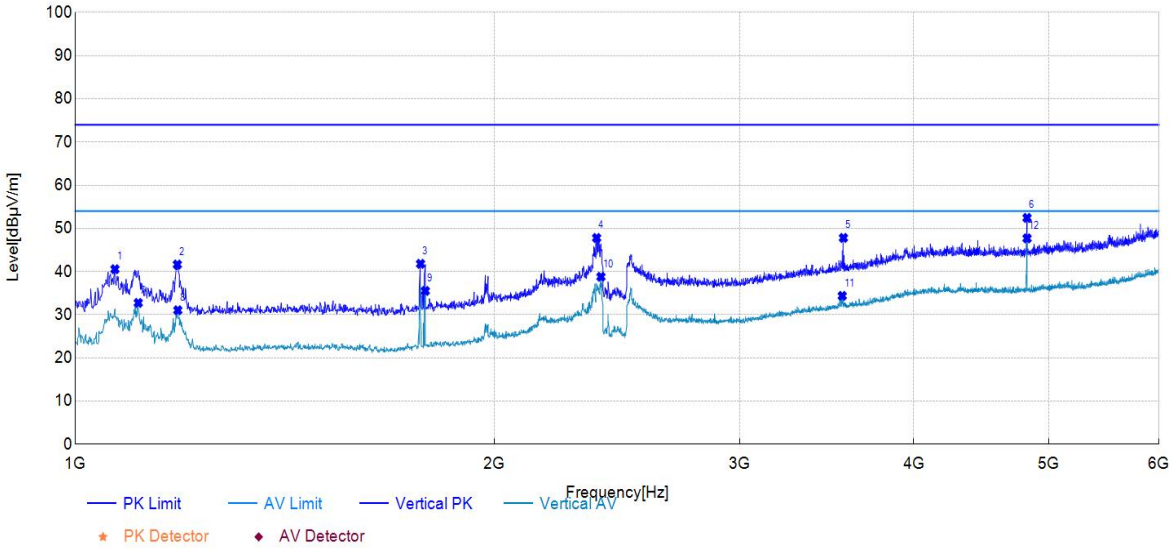
Test Mode:	802.11b-Antenna2	Test Date:	2025-05-19 ~ 2025-06-11
Test Channel:	01	Test Engineer:	Stone Zhang



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	1109.00	64.46	40.65	-23.81	74.00	33.35	150	161	PK	Horizontal	PASS
2	1184.00	63.03	39.52	-23.51	74.00	34.48	150	360	PK	Horizontal	PASS
3	1766.00	59.26	39.49	-19.77	74.00	34.51	150	291	PK	Horizontal	PASS
4	2171.00	57.30	39.96	-17.34	74.00	34.04	150	332	PK	Horizontal	PASS
5	2372.00	62.67	46.22	-16.45	74.00	27.78	150	42	PK	Horizontal	PASS
6	5048.00	53.24	47.20	-6.04	74.00	26.80	150	235	PK	Horizontal	PASS
7	1108.00	55.82	32.01	-23.81	54.00	21.99	150	161	AV	Horizontal	PASS
8	1186.00	52.39	28.89	-23.50	54.00	25.11	150	17	AV	Horizontal	PASS
9	1766.00	56.10	36.33	-19.77	54.00	17.67	150	294	AV	Horizontal	PASS
10	2154.00	49.12	31.71	-17.41	54.00	22.29	150	332	AV	Horizontal	PASS
11	2389.00	55.21	38.85	-16.36	54.00	15.15	150	314	AV	Horizontal	PASS
12	4824.00	53.02	46.30	-6.72	54.00	7.70	150	17	AV	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

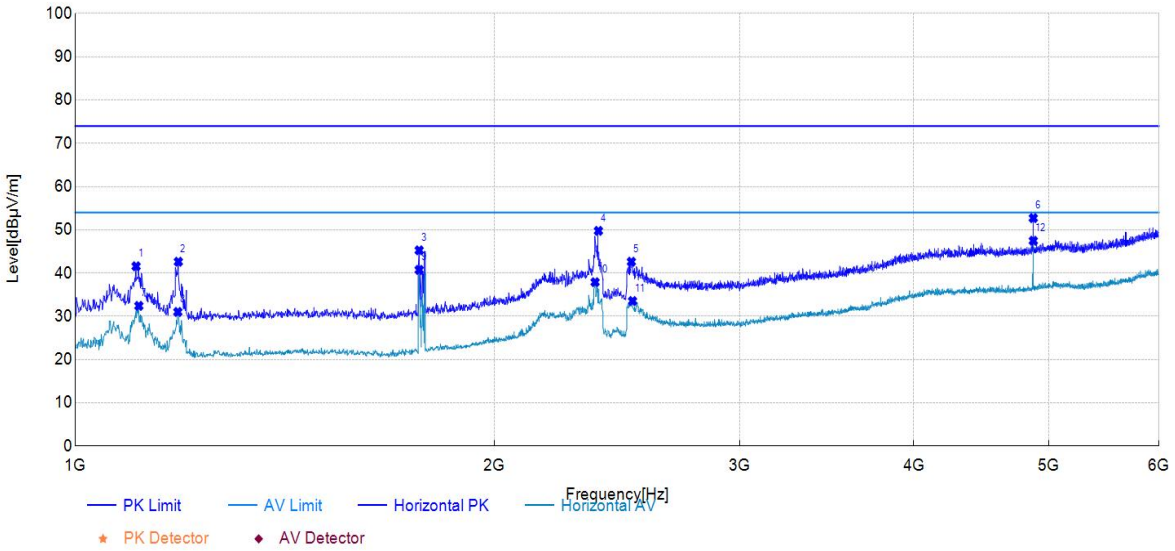


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1068.00	63.46	40.54	-22.92	74.00	33.46	150	215	PK	Vertical	PASS
2	1184.00	64.15	41.63	-22.52	74.00	32.37	150	226	PK	Vertical	PASS
3	1770.00	60.95	41.79	-19.16	74.00	32.21	150	359	PK	Vertical	PASS
4	2368.00	64.37	47.78	-16.59	74.00	26.22	150	241	PK	Vertical	PASS
5	3561.00	58.90	47.80	-11.10	74.00	26.20	150	88	PK	Vertical	PASS
6	4824.00	59.71	52.43	-7.28	74.00	21.57	150	207	PK	Vertical	PASS
7	1110.00	55.51	32.74	-22.77	54.00	21.26	150	84	AV	Vertical	PASS
8	1185.00	53.56	31.04	-22.52	54.00	22.96	150	226	AV	Vertical	PASS
9	1784.00	54.55	35.51	-19.04	54.00	18.49	150	169	AV	Vertical	PASS
10	2385.00	55.31	38.79	-16.52	54.00	15.21	150	237	AV	Vertical	PASS
11	3554.00	45.51	34.36	-11.15	54.00	19.64	150	100	AV	Vertical	PASS
12	4824.00	54.97	47.69	-7.28	54.00	6.31	150	207	AV	Vertical	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

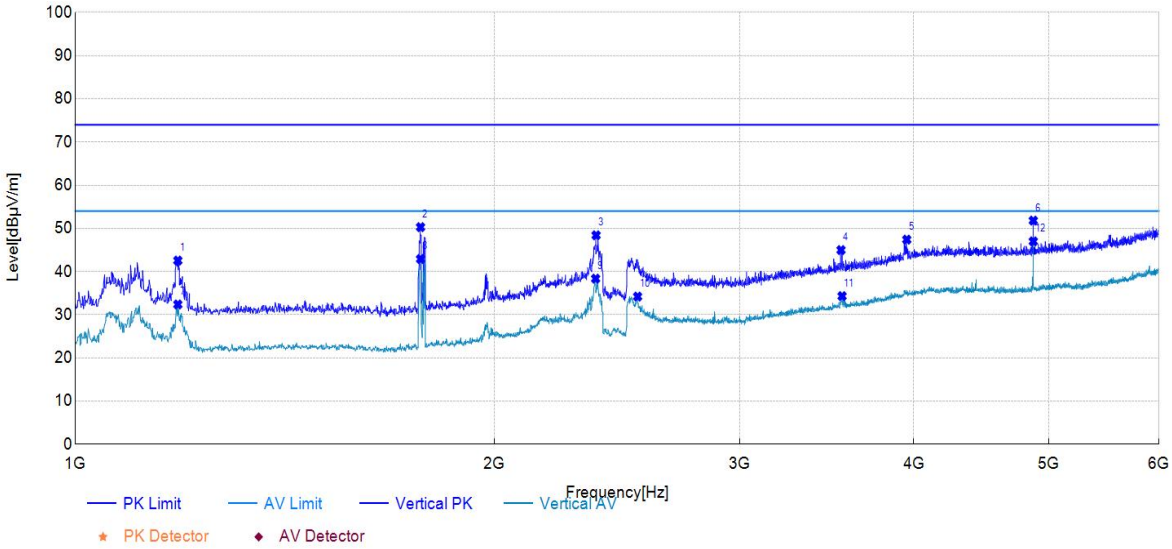
Test Mode:	802.11b-Antenna2	Test Date:	2025-05-19 ~ 2025-06-11
Test Channel:	06	Test Engineer:	Stone Zhang



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	1106.00	65.38	41.57	-23.81	74.00	32.43	150	173	PK	Horizontal	PASS
2	1186.00	66.12	42.62	-23.50	74.00	31.38	150	20	PK	Horizontal	PASS
3	1766.00	65.03	45.26	-19.77	74.00	28.74	150	254	PK	Horizontal	PASS
4	2375.00	66.20	49.76	-16.44	74.00	24.24	150	124	PK	Horizontal	PASS
5	2508.00	58.40	42.62	-15.78	74.00	31.38	150	308	PK	Horizontal	PASS
6	4874.00	59.29	52.71	-6.58	74.00	21.29	150	4	PK	Horizontal	PASS
7	1111.00	56.21	32.41	-23.80	54.00	21.59	150	173	AV	Horizontal	PASS
8	1185.00	54.52	31.01	-23.51	54.00	22.99	150	338	AV	Horizontal	PASS
9	1766.00	60.51	40.74	-19.77	54.00	13.26	150	268	AV	Horizontal	PASS
10	2362.00	54.39	37.89	-16.50	54.00	16.11	150	320	AV	Horizontal	PASS
11	2513.00	49.29	33.53	-15.76	54.00	20.47	150	320	AV	Horizontal	PASS
12	4874.00	54.04	47.46	-6.58	54.00	6.54	150	10	AV	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

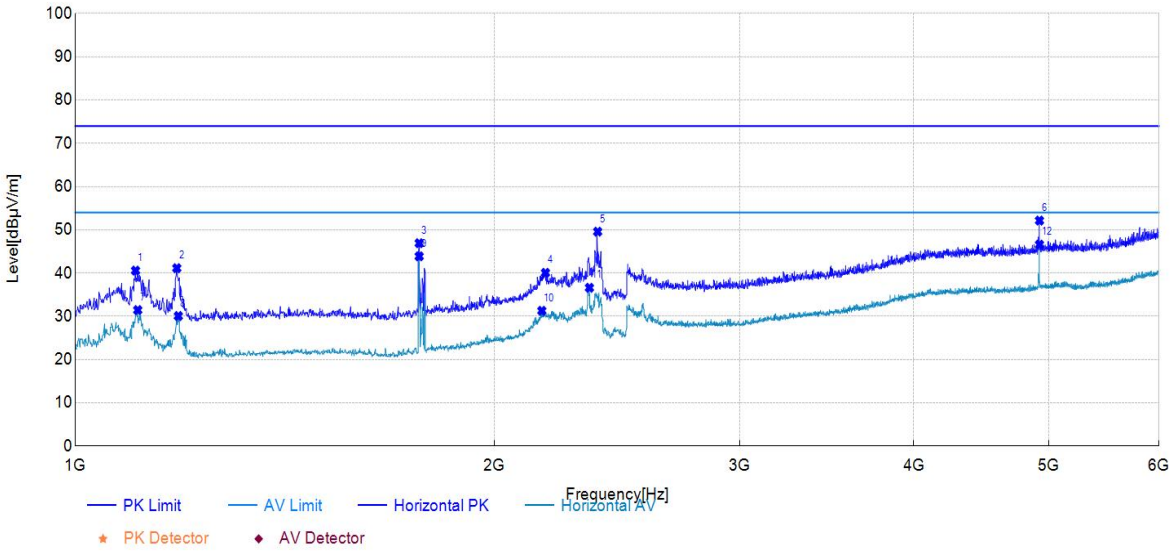


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1185.00	65.07	42.55	-22.52	74.00	31.45	150	256	PK	Vertical	PASS
2	1770.00	69.45	50.29	-19.16	74.00	23.71	150	159	PK	Vertical	PASS
3	2366.00	64.99	48.40	-16.59	74.00	25.60	150	200	PK	Vertical	PASS
4	3547.00	56.19	44.98	-11.21	74.00	29.02	150	122	PK	Vertical	PASS
5	3954.00	55.95	47.40	-8.55	74.00	26.60	150	256	PK	Vertical	PASS
6	4874.00	58.99	51.81	-7.18	74.00	22.19	150	159	PK	Vertical	PASS
7	1185.00	54.90	32.38	-22.52	54.00	21.62	150	26	AV	Vertical	PASS
8	1770.00	62.07	42.91	-19.16	54.00	11.09	150	159	AV	Vertical	PASS
9	2364.00	54.97	38.36	-16.61	54.00	15.64	150	200	AV	Vertical	PASS
10	2534.00	50.19	34.21	-15.98	54.00	19.79	150	337	AV	Vertical	PASS
11	3553.00	45.47	34.31	-11.16	54.00	19.69	150	118	AV	Vertical	PASS
12	4874.00	54.17	46.99	-7.18	54.00	7.01	150	159	AV	Vertical	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

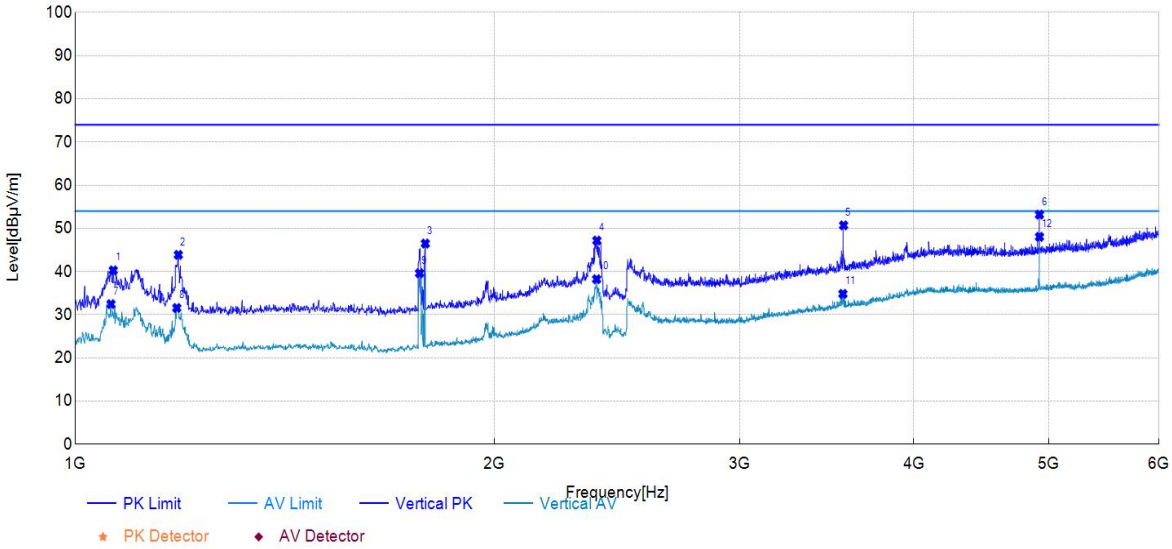
Test Mode:	802.11b-Antenna2	Test Date:	2025-05-19 ~ 2025-06-11
Test Channel:	11	Test Engineer:	Stone Zhang



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	1105.00	64.39	40.57	-23.82	74.00	33.43	150	154	PK	Horizontal	PASS
2	1183.00	64.65	41.13	-23.52	74.00	32.87	150	338	PK	Horizontal	PASS
3	1766.00	66.68	46.91	-19.77	74.00	27.09	150	260	PK	Horizontal	PASS
4	2176.00	57.38	40.06	-17.32	74.00	33.94	150	324	PK	Horizontal	PASS
5	2372.00	66.02	49.57	-16.45	74.00	24.43	150	260	PK	Horizontal	PASS
6	4924.00	58.53	52.14	-6.39	74.00	21.86	150	0	PK	Horizontal	PASS
7	1109.00	55.25	31.44	-23.81	54.00	22.56	150	157	AV	Horizontal	PASS
8	1186.00	53.57	30.07	-23.50	54.00	23.93	150	20	AV	Horizontal	PASS
9	1766.00	63.64	43.87	-19.77	54.00	10.13	150	260	AV	Horizontal	PASS
10	2163.00	48.65	31.28	-17.37	54.00	22.72	150	334	AV	Horizontal	PASS
11	2340.00	53.22	36.60	-16.62	54.00	17.40	150	320	AV	Horizontal	PASS
12	4924.00	52.97	46.58	-6.39	54.00	7.42	150	4	AV	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

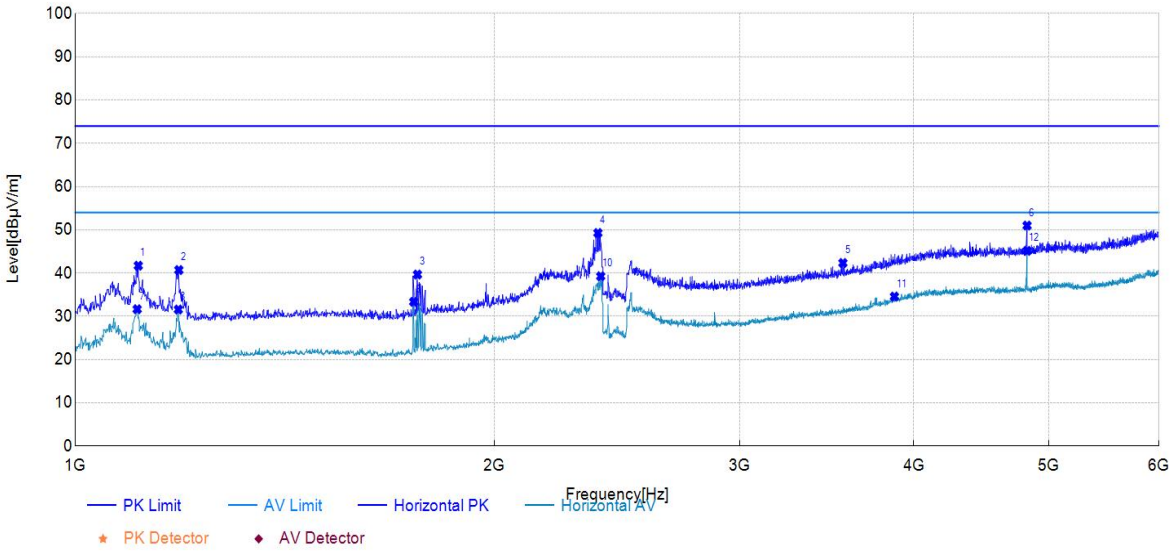


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1065.00	63.21	40.28	-22.93	74.00	33.72	150	215	PK	Vertical	PASS
2	1186.00	66.39	43.87	-22.52	74.00	30.13	150	33	PK	Vertical	PASS
3	1784.00	65.53	46.49	-19.04	74.00	27.51	150	359	PK	Vertical	PASS
4	2369.00	63.75	47.17	-16.58	74.00	26.83	150	181	PK	Vertical	PASS
5	3562.00	61.79	50.70	-11.09	74.00	23.30	150	307	PK	Vertical	PASS
6	4924.00	60.22	53.19	-7.03	74.00	20.81	150	160	PK	Vertical	PASS
7	1061.00	55.39	32.45	-22.94	54.00	21.55	150	59	AV	Vertical	PASS
8	1183.00	54.10	31.57	-22.53	54.00	22.43	150	123	AV	Vertical	PASS
9	1767.00	58.78	39.61	-19.17	54.00	14.39	150	249	AV	Vertical	PASS
10	2368.00	54.82	38.23	-16.59	54.00	15.77	150	181	AV	Vertical	PASS
11	3558.00	45.95	34.83	-11.12	54.00	19.17	150	123	AV	Vertical	PASS
12	4924.00	55.07	48.04	-7.03	54.00	5.96	150	152	AV	Vertical	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

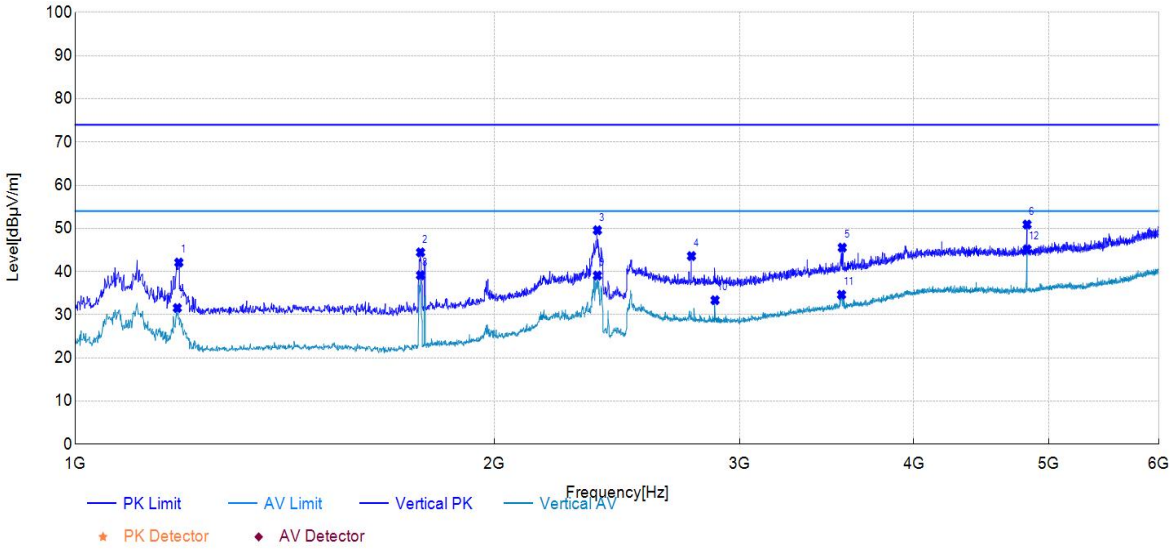
Test Mode:	802.11b-CDD	Test Date:	2025-05-19 ~ 2025-06-11
Test Channel:	01	Test Engineer:	Stone Zhang



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	1110.00	65.51	41.71	-23.80	74.00	32.29	150	194	PK	Horizontal	PASS
2	1187.00	64.20	40.70	-23.50	74.00	33.30	150	143	PK	Horizontal	PASS
3	1761.00	59.47	39.66	-19.81	74.00	34.34	150	102	PK	Horizontal	PASS
4	2373.00	65.71	49.27	-16.44	74.00	24.73	150	17	PK	Horizontal	PASS
5	3558.00	54.19	42.33	-11.86	74.00	31.67	150	349	PK	Horizontal	PASS
6	4824.00	57.70	50.98	-6.72	74.00	23.02	150	0	PK	Horizontal	PASS
7	1108.00	55.45	31.64	-23.81	54.00	22.36	150	161	AV	Horizontal	PASS
8	1186.00	55.07	31.57	-23.50	54.00	22.43	150	143	AV	Horizontal	PASS
9	1750.00	53.26	33.35	-19.91	54.00	20.65	150	191	AV	Horizontal	PASS
10	2384.00	55.65	39.26	-16.39	54.00	14.74	150	17	AV	Horizontal	PASS
11	3874.00	44.06	34.56	-9.50	54.00	19.44	150	206	AV	Horizontal	PASS
12	4824.00	51.85	45.13	-6.72	54.00	8.87	150	2	AV	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

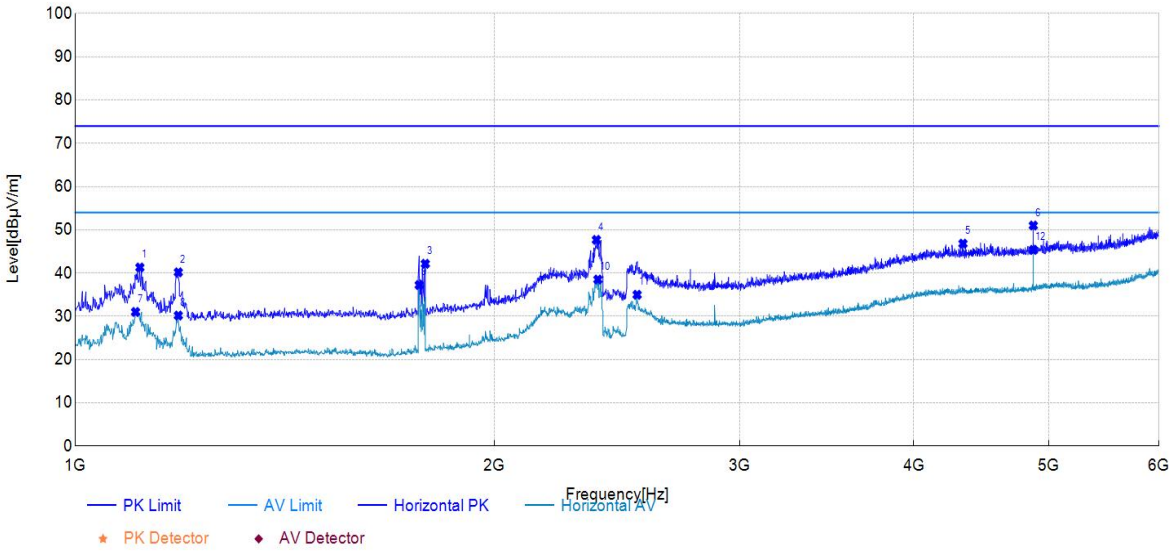


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1187.00	64.59	42.08	-22.51	74.00	31.92	150	33	PK	Vertical	PASS
2	1770.00	63.60	44.44	-19.16	74.00	29.56	150	70	PK	Vertical	PASS
3	2371.00	66.15	49.57	-16.58	74.00	24.43	150	189	PK	Vertical	PASS
4	2770.00	58.80	43.59	-15.21	74.00	30.41	150	185	PK	Vertical	PASS
5	3554.00	56.69	45.54	-11.15	74.00	28.46	150	111	PK	Vertical	PASS
6	4824.00	58.17	50.89	-7.28	74.00	23.11	150	211	PK	Vertical	PASS
7	1184.00	54.07	31.55	-22.52	54.00	22.45	150	256	AV	Vertical	PASS
8	1770.00	58.30	39.14	-19.16	54.00	14.86	150	70	AV	Vertical	PASS
9	2371.00	55.65	39.07	-16.58	54.00	14.93	150	189	AV	Vertical	PASS
10	2880.00	48.11	33.36	-14.75	54.00	20.64	150	0	AV	Vertical	PASS
11	3550.00	45.82	34.63	-11.19	54.00	19.37	150	111	AV	Vertical	PASS
12	4824.00	52.44	45.16	-7.28	54.00	8.84	150	214	AV	Vertical	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

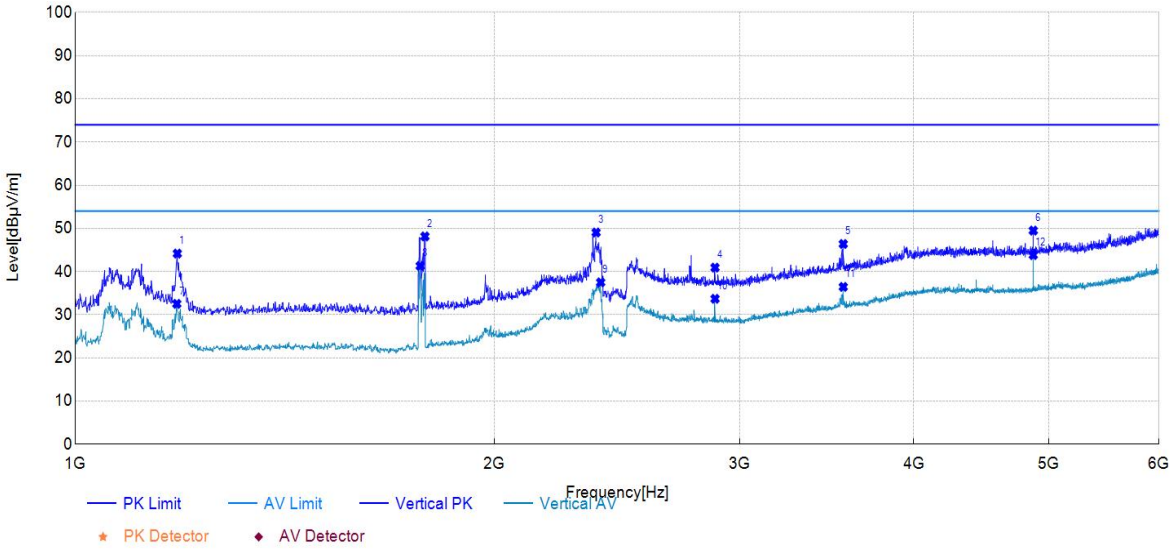
Test Mode:	802.11b-CDD	Test Date:	2025-05-19 ~ 2025-06-11
Test Channel:	06	Test Engineer:	Stone Zhang



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	1113.00	65.08	41.29	-23.79	74.00	32.71	150	203	PK	Horizontal	PASS
2	1186.00	63.67	40.17	-23.50	74.00	33.83	150	129	PK	Horizontal	PASS
3	1784.00	61.77	42.15	-19.62	74.00	31.85	150	51	PK	Horizontal	PASS
4	2367.00	64.15	47.67	-16.48	74.00	26.33	150	5	PK	Horizontal	PASS
5	4339.00	54.37	46.80	-7.57	74.00	27.20	150	166	PK	Horizontal	PASS
6	4874.00	57.57	50.99	-6.58	74.00	23.01	150	7	PK	Horizontal	PASS
7	1105.00	54.83	31.01	-23.82	54.00	22.99	150	181	AV	Horizontal	PASS
8	1186.00	53.68	30.18	-23.50	54.00	23.82	150	129	AV	Horizontal	PASS
9	1766.00	57.00	37.23	-19.77	54.00	16.77	150	73	AV	Horizontal	PASS
10	2373.00	54.95	38.51	-16.44	54.00	15.49	150	21	AV	Horizontal	PASS
11	2532.00	50.69	34.98	-15.71	54.00	19.02	150	360	AV	Horizontal	PASS
12	4874.00	51.94	45.36	-6.58	54.00	8.64	150	0	AV	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

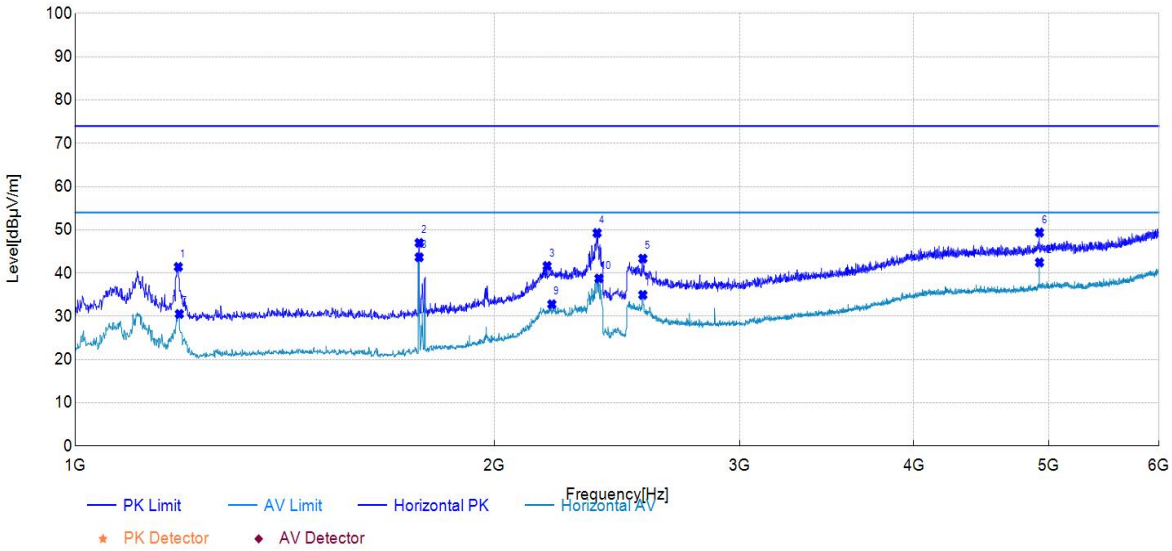


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1184.00	66.69	44.17	-22.52	74.00	29.83	150	221	PK	Vertical	PASS
2	1783.00	67.19	48.14	-19.05	74.00	25.86	150	346	PK	Vertical	PASS
3	2366.00	65.64	49.05	-16.59	74.00	24.95	150	360	PK	Vertical	PASS
4	2880.00	55.66	40.91	-14.75	74.00	33.09	150	359	PK	Vertical	PASS
5	3560.00	57.49	46.39	-11.10	74.00	27.61	150	99	PK	Vertical	PASS
6	4874.00	56.67	49.49	-7.18	74.00	24.51	150	284	PK	Vertical	PASS
7	1183.00	55.05	32.52	-22.53	54.00	21.48	150	209	AV	Vertical	PASS
8	1769.00	60.47	41.31	-19.16	54.00	12.69	150	147	AV	Vertical	PASS
9	2384.00	54.02	37.49	-16.53	54.00	16.51	150	169	AV	Vertical	PASS
10	2880.00	48.44	33.69	-14.75	54.00	20.31	150	6	AV	Vertical	PASS
11	3560.00	47.54	36.44	-11.10	54.00	17.56	150	99	AV	Vertical	PASS
12	4874.00	51.00	43.82	-7.18	54.00	10.18	150	162	AV	Vertical	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

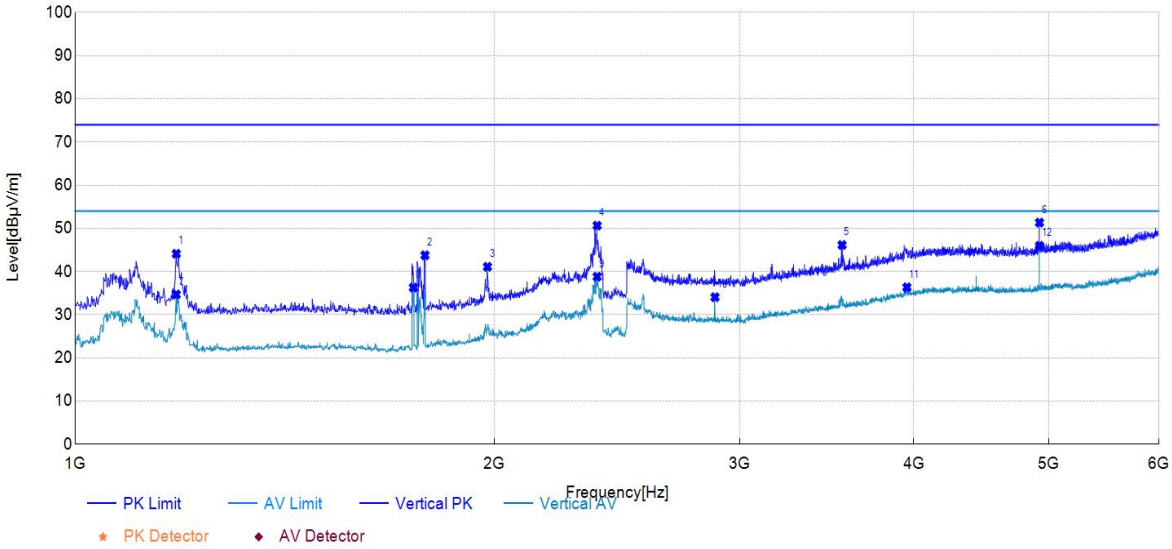
Test Mode:	802.11b-CDD	Test Date:	2025-05-19 ~ 2025-06-11
Test Channel:	11	Test Engineer:	Stone Zhang



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	1186.00	64.92	41.42	-23.50	74.00	32.58	150	14	PK	Horizontal	PASS
2	1766.00	66.75	46.98	-19.77	74.00	27.02	150	295	PK	Horizontal	PASS
3	2182.00	58.92	41.63	-17.29	74.00	32.37	150	324	PK	Horizontal	PASS
4	2370.00	65.72	49.26	-16.46	74.00	24.74	150	7	PK	Horizontal	PASS
5	2556.00	58.99	43.34	-15.65	74.00	30.66	150	346	PK	Horizontal	PASS
6	4924.00	55.77	49.38	-6.39	74.00	24.62	150	4	PK	Horizontal	PASS
7	1188.00	54.05	30.55	-23.50	54.00	23.45	150	14	AV	Horizontal	PASS
8	1766.00	63.42	43.65	-19.77	54.00	10.35	150	299	AV	Horizontal	PASS
9	2199.00	49.99	32.78	-17.21	54.00	21.22	150	327	AV	Horizontal	PASS
10	2377.00	55.18	38.75	-16.43	54.00	15.25	150	25	AV	Horizontal	PASS
11	2556.00	50.59	34.94	-15.65	54.00	19.06	150	1	AV	Horizontal	PASS
12	4924.00	48.84	42.45	-6.39	54.00	11.55	150	324	AV	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

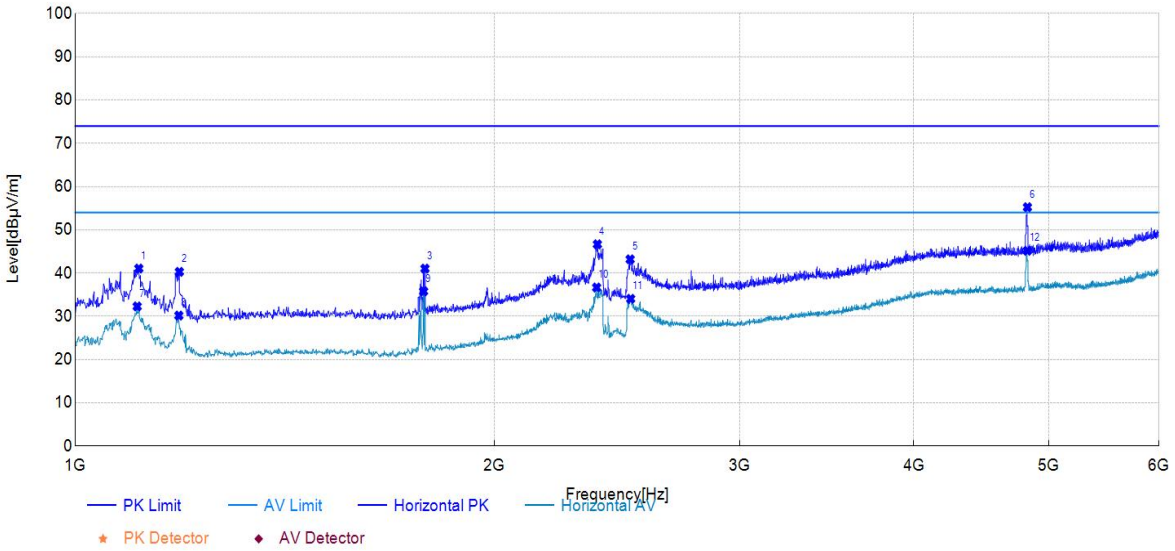


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1182.00	66.65	44.12	-22.53	74.00	29.88	150	220	PK	Vertical	PASS
2	1783.00	62.82	43.77	-19.05	74.00	30.23	150	305	PK	Vertical	PASS
3	1977.00	59.04	41.10	-17.94	74.00	32.90	150	94	PK	Vertical	PASS
4	2370.00	67.22	50.64	-16.58	74.00	23.36	150	191	PK	Vertical	PASS
5	3553.00	57.31	46.15	-11.16	74.00	27.85	150	99	PK	Vertical	PASS
6	4924.00	58.37	51.34	-7.03	74.00	22.66	150	154	PK	Vertical	PASS
7	1182.00	57.22	34.69	-22.53	54.00	19.31	150	220	AV	Vertical	PASS
8	1749.00	55.61	36.29	-19.32	54.00	17.71	150	172	AV	Vertical	PASS
9	2370.00	55.39	38.81	-16.58	54.00	15.19	150	191	AV	Vertical	PASS
10	2880.00	48.81	34.06	-14.75	54.00	19.94	150	0	AV	Vertical	PASS
11	3955.00	44.89	36.35	-8.54	54.00	17.65	150	227	AV	Vertical	PASS
12	4924.00	52.99	45.96	-7.03	54.00	8.04	150	158	AV	Vertical	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

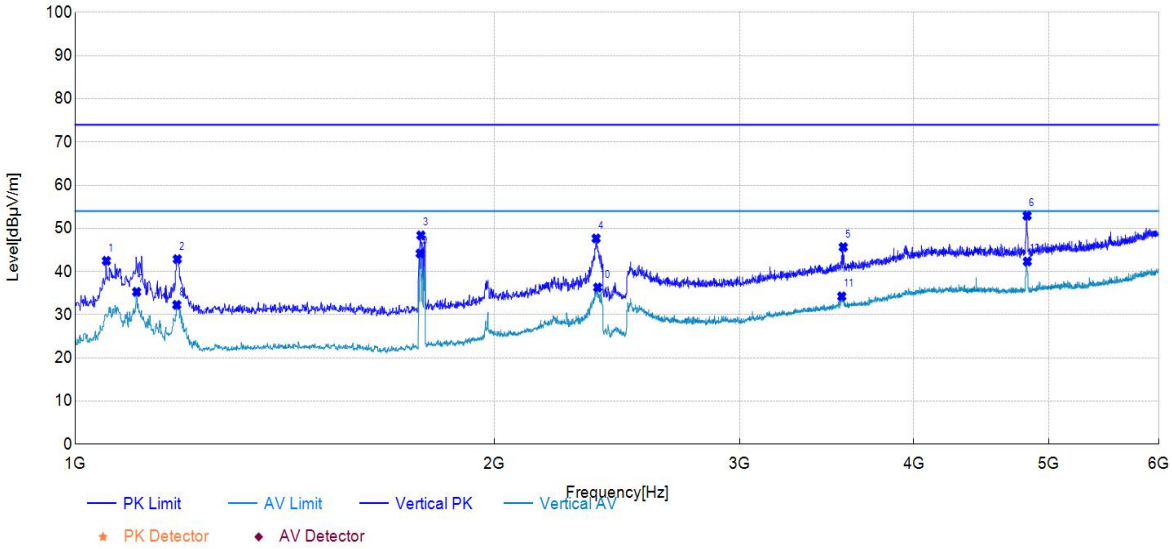
Test Mode:	802.11g-Antenna1	Test Date:	2025-05-19 ~ 2025-06-11
Test Channel:	01	Test Engineer:	Stone Zhang



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	1111.00	64.85	41.05	-23.80	74.00	32.95	150	172	PK	Horizontal	PASS
2	1188.00	63.78	40.28	-23.50	74.00	33.72	150	32	PK	Horizontal	PASS
3	1783.00	60.65	41.03	-19.62	74.00	32.97	150	339	PK	Horizontal	PASS
4	2371.00	63.11	46.65	-16.46	74.00	27.35	150	73	PK	Horizontal	PASS
5	2503.00	58.98	43.18	-15.80	74.00	30.82	150	0	PK	Horizontal	PASS
6	4827.00	61.94	55.23	-6.71	74.00	18.77	150	360	PK	Horizontal	PASS
7	1108.00	56.09	32.28	-23.81	54.00	21.72	150	168	AV	Horizontal	PASS
8	1187.00	53.67	30.17	-23.50	54.00	23.83	150	168	AV	Horizontal	PASS
9	1779.00	55.44	35.78	-19.66	54.00	18.22	150	220	AV	Horizontal	PASS
10	2368.00	53.14	36.66	-16.48	54.00	17.34	150	124	AV	Horizontal	PASS
11	2505.00	49.82	34.04	-15.78	54.00	19.96	150	0	AV	Horizontal	PASS
12	4826.00	51.87	45.16	-6.71	54.00	8.84	150	0	AV	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level



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	1053.00	65.45	42.48	-22.97	74.00	31.52	150	217	PK	Vertical	PASS
2	1184.00	65.39	42.87	-22.52	74.00	31.13	150	239	PK	Vertical	PASS
3	1771.00	67.52	48.38	-19.14	74.00	25.62	150	269	PK	Vertical	PASS
4	2366.00	64.26	47.67	-16.59	74.00	26.33	150	159	PK	Vertical	PASS
5	3560.00	56.76	45.66	-11.10	74.00	28.34	150	107	PK	Vertical	PASS
6	4824.00	60.22	52.94	-7.28	74.00	21.06	150	136	PK	Vertical	PASS
7	1107.00	58.06	35.29	-22.77	54.00	18.71	150	276	AV	Vertical	PASS
8	1183.00	54.81	32.28	-22.53	54.00	21.72	150	228	AV	Vertical	PASS
9	1769.00	63.35	44.19	-19.16	54.00	9.81	150	287	AV	Vertical	PASS
10	2372.00	52.89	36.32	-16.57	54.00	17.68	150	150	AV	Vertical	PASS
11	3551.00	45.43	34.25	-11.18	54.00	19.75	150	100	AV	Vertical	PASS
12	4826.00	49.60	42.33	-7.27	54.00	11.67	150	180	AV	Vertical	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level