

TEST REPORT

On behalf of

Savant Technologies LLC, dba GE Lighting, a Savant company

Product Name: COMBO module

Model No.: JXC8720-80

FCC ID: PUU-CFIXCNLRCRV

Prepared For: Savant Technologies LLC, dba GE Lighting, a Savant company
1975 Noble Road Cleveland, Ohio United States 44112

Prepared By: Audix Technology (Shanghai) Co., Ltd.
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TESTING
NVLAP LAB CODE 200371-0

File No. : C1D2608046
Report No. : ACI-F26186
Date of Test : 2026.09.19
Date of Report : 2026.09.21

The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

TABLE OF CONTENTS

	Page
1 SUMMARY OF STANDARDS AND RESULTS	4
1.1 Description of Standards and Results.....	4
2 GENERAL INFORMATION.....	5
2.1 Description of Equipment Under Test.....	5
2.2 EUT Specifications Assessed in Current Report.....	6
2.3 Test Information	6
2.4 Duty Cycle Check	7
2.5 Sample Description	7
2.6 Supported equipment.....	7
2.7 Description of Test Facility	7
3 RADIATED EMISSION TEST.....	8
3.1 Test Equipment.....	8
3.2 Block Diagram of Test Setup	8
3.3 Radiated Emission Limit (§15.209)	10
3.4 Test Configuration.....	11
3.5 Operating Condition of EUT	11
3.6 Test Procedures	11
3.7 Test Results	12
4 ANTENNA REQUIREMENT.....	45
4.1 Specification Limits (§15.203).....	45
4.2 Result.....	45
5 MEASUREMENT UNCERTAINTY LIST	46
APPENDIX I PHOTOGRAPHS OF TEST	TOTAL 3 PAGES
APPENDIX II PHOTOGRAPHS OF EUT	TOTAL 6 PAGES

TEST REPORT

Applicant : Savant Technologies LLC, dba GE Lighting, a Savant company
EUT Description : COMBO module
(A) Model No. : Refer to Sec.2.1
(B) Power Supply : DC 3.3V
(C) Test Voltage : DC 3.3V from test fixture

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C
AND ANSI C63.10:2020*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: Refer to Sec2.1), which was tested is technically compliance with the FCC limits.

This report applies to above tested Sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

The test results for EUT's BLE function are contained in No.ACI-F26185 report.

Date of Test : 2026.09.19 Date of Report : 2026.09.21

Producer :

Huimin Yan

HUIMIN YAN / Assistant

Review :

Jarey Lu

AUDIX[®]
For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Signatory :

Authorized Signature(s) KAMP CHEN / Manager

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The result is determined according to the decision rules of customer selection in the ASC-403 application service form.

1. According to IEC GUIDE 115 Procedure 2 and ILAC-G8, the uncertainties value is not used in determining the PASS/FAIL results.

2. If the required specification or standard already contains the decision rules, it will be carried out in accordance with the regulations or standard documents or the requirements of the competent units. If the required specification or standard does not contain a decision rule, the same paragraph 1.

3. If your company has a required decision rule, it will be implemented in accordance with the requirements and ISO/IEC Guide 98-4 specifications.

The EUT have been tested according to the applicable standards as referenced below:

Description / Test Item	Test Standard	Results	Meets Limit
EMISSION			
Conducted Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2020	Pass	15.207
Radiated Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2020	Pass	15.209(a) 15.205(a)(c)
6 dB Bandwidth Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2020	Pass	15.247(a)(2)
Maximum Output Power Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2020	Pass	15.247(b)(3)
Emission Limitations Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2020	Pass	15.247(d)
Band Edge Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2020	Pass	15.247(d)
Power Spectral Density Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2020	Pass	15.247(e)
Antenna Requirement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2020	Pass	15.203
N/A is an abbreviation for Not Applicable.			

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : COMBO module

Type of EUT : ☒ Production ☐ Pre-product ☐ Pro-type

Model Number : JXC8720-80

Note : This time we're filing the antenna report; the original report was for a PCB antenna, and now it's an FPC antenna. The circuit, RF Chip, PCB Component and the specifications of wireless functions are the same. This antenna is not bigger than the antenna in the original report.

The original module is equipped with a PCB antenna and has Model Number JXC8720-18, while the module submitted under this application uses an FPC antenna and has Model Number JXC8720-80.

As the differences, need to do the "Radiated emission" test

Radio Tech : BLE 4.2;
IEEE 802.11 b/g/n.

Channel Freq. : BLE: 2402MHz-2480MHz;
802.11b/g/n20: 2412MHz-2462MHz.

Modulation : BLE: GFSK;
802.11b: DSSS (CCK, DQPSK, DBPSK);
802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK).

Antenna Info. : Antenna Connector Type : IPEX
Antenna Type: FPC Antenna
Antenna Gain: 2.6 dBi

Note : The Antenna information was provided by the customer.

Applicant : Savant Technologies LLC, dba GE Lighting, a Savant company
1975 Noble Road Cleveland, Ohio United States 44112

Manufacturer : same as Applicant

Factory : same as Applicant

2.2 EUT Specifications Assessed in Current Report

Mode	Modulation	Data Rate(Mbps)
802.11b	DSSS (DQPSK, DBPSK, CCK)	Up to 11
802.11g	OFDM (64-QAM, 16-QAM, QPSK, BPSK)	Up to 54
802.11n-HT 20	OFDM (64-QAM, 16-QAM, QPSK, BPSK)	Up to 72.2

Channel List			
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

2.3 Test Information

The test software “UI_mptool.exe” was used to control EUT work in TX mode, Power Index and select test channel.

Mode	data rate (Mbps)	Power Level Index Setting	Test Channel		Frequency (MHz)
802.11b	1	Auto(89)	Low:	1	2412
		auto(89)	Middle:	6	2437
		Manual(80)	High:	11	2462
802.11g	6	auto(90)	Low:	1	2412
		Auto(101)	Middle:	6	2437
		Auto(85)	High:	11	2462
802.11n20	MCS0	Auto(86)	Low:	1	2412
		Auto(97)	Middle:	6	2437
		Auto(85)	High:	11	2462

Note: The setting information was provided by the customer.

2.4 Duty Cycle Check

N/A

2.5 Sample Description

Test Item	Model Number	Sample Number	Date of receipted
Radiated Emission	JXC8720-80	E20260827-01-01/01	2026.08.27

2.6 Supported equipment

Brand : Acer
Product Name: : Notebook PC
Model Name : N22C6
S/N : XEGYCN004311014CD3400

Product Name : Test Fixture
Product Function : USB to TTL

2.7 Description of Test Facility

Name of Firm : Audix Technology (Shanghai) Co., Ltd.
Site Location : 3F, Building 34, No. 680 Guiping Rd.,
Caohejing, Hi-Tech Park,
Shanghai 200233, China
Accredited by NVLAP, Lab Code : 200371-0
FCC Designation Number : CN5027
Test Firm Registration Number : 954668

3 RADIATED EMISSION TEST

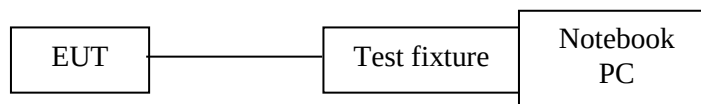
3.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

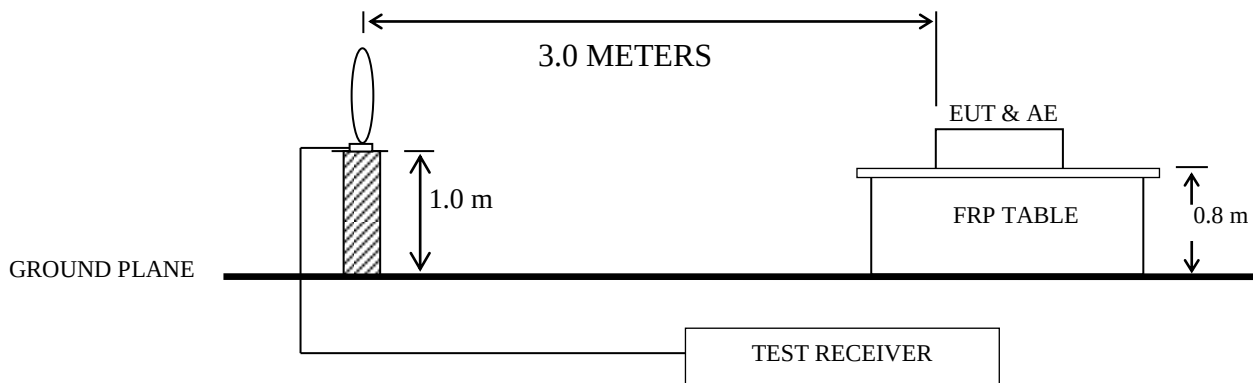
Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Preamplifier	Agilent	8447D	2944A10548	2026.02.24	1 Year
2.	Preamplifier	HP	8449B	3008A00864	2026.02.24	1 Year
3.	EXA Signal Analyzer	Agilent	N9010A	MY52221182	2026.07.03	1 Year
4.	Test Receiver	R&S	ESCI	101303	2026.02.24	1 Year
5.	Loop Antenna	Schaffner	HLA6120	1193	2026.08.04	1 Year
6.	Bilog Antenna+6dB Attenuator	Schwarzbeck	VULB 9168+EMCI-N-6-06	708+AT-N0638	2026.07.03	1 Year
7.	Horn Antenna	EMCO	3115	96074878	2026.08.13	1 Year
8.	Horn Antenna	EMCO	3116	00062643	2026.01.21	2 Year
9.	RE Cable-3m+Coaxial Switch	TIMES+ANRI TSU	LMR400-NMNM-3.0M+MP59B	20250211-0001+6200655086	2026.02.24	1 Year
10.	RE Cable-1m	TIMES	LMR400UF-NM NM-1.0M	20260303-001	2026.02.24	1 Year
11.	RE Cable-11m	TIMES	LMR400UF-NM NM-11.0M	20260303-001	2026.02.24	1 Year
12.	Coaxial Cable(CH.3)	Mini-Circuits	FLC-2FT-SMSM+	21112086	2026.02.24	1 Year
13.	RE Cable-5m	TIMES	SFT205-SMNM-5.0M	20250211-0001	2026.02.24	1 Year
14.	RF Cable-0.6m+4m	EM Electronics	EM102-0.6M+EM 102-4M	W0061790001+W0061800001	2026.02.24	1 Year
15.	Software	Audix	e3	e3.v9.210616	--	1 Year

3.2 Block Diagram of Test Setup

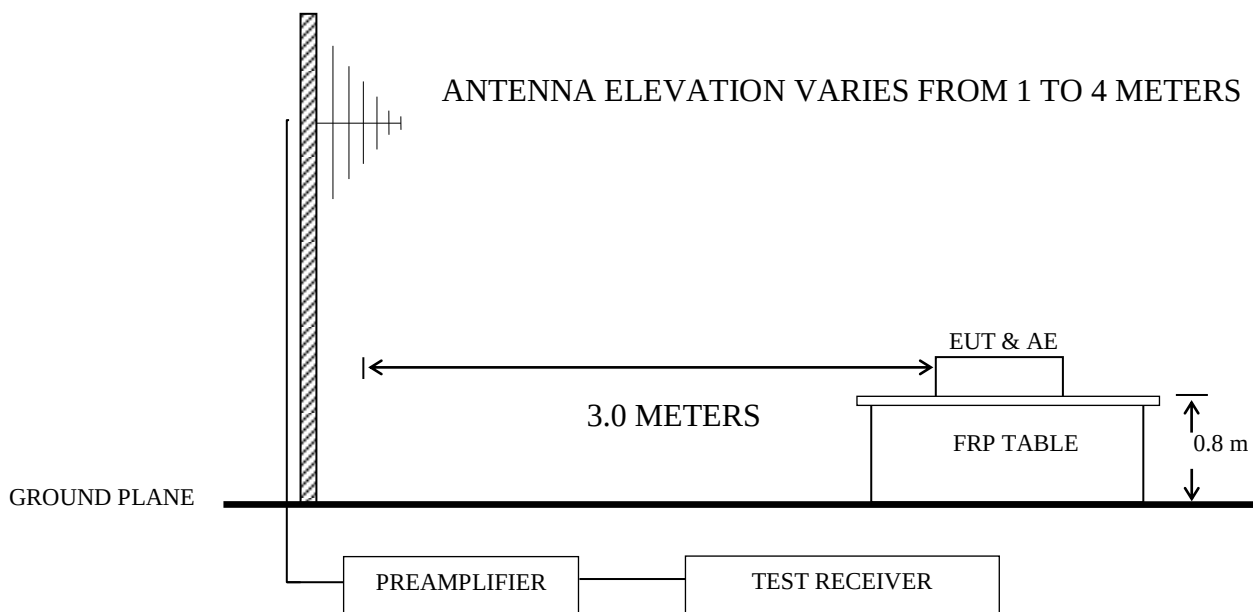
3.2.1 EUT & Peripherals



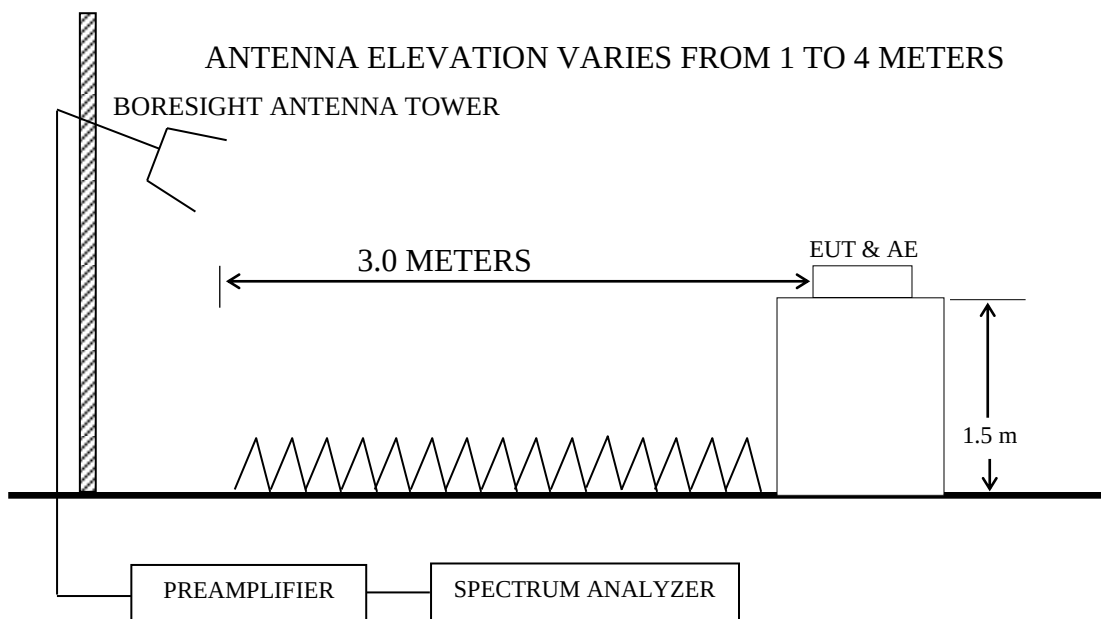
3.2.2 9kHz to 30MHz



3.2.3 30MHz to 1GHz



3.2.4 Above 1GHz



3.3 Radiated Emission Limit (§15.209)

Frequency (MHz)	Distance (m)	Field strength limits (μV/m)	
		(μV/m)	dB (μV/m)
0.009 ~ 0.490	300	2400/F(kHz)	20log(2400/F(kHz))
0.490 ~ 1.705	30	24000/F(kHz)	20log(24000/F(kHz))
1.705 ~ 30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

NOTE 1 - Emission Level dB (μV/m) = 20 log Emission Level (μV/m)

NOTE 2 - The tighter limit applies at the band edges.

NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

NOTE 4 - The limits shown are based on Quasi-peak value detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. The limits in these three bands are based on average detector.

NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT

3.4 Test Configuration

The EUT (listed in Sec.2.1) and the simulators (listed in Sec.2.2) were installed as shown on Sec.4.2 to meet FCC requirements and operating in a manner that tends to maximize its emission level in a normal application.

3.5 Operating Condition of EUT

3.5.1 Setup the EUT as shown in Sec. 4.2.

3.5.2 Turn the EUT on.

3.5.3 Connect the EUT and the TTL terminal of Test Fixture through four HCI cables of EUT, as follows (3V3 to VCC, TX to RXD, RX to TXD, GND to GND). Plug the USB terminal of Test Fixture to the USB port of Notebook PC.

3.5.4 Use the software as section 2.3 to select the test mode, then test.

3.5.5 Repeat step 4.5.3 and 4.5.4, until the test of all modes finished.

3.6 Test Procedures

Radiated emission test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205. The maximum permitted average field strength is listed in Section 15.209. A pre-amp is necessary for this measurement. For measurement above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

The EUT was placed on a turntable. Below 1 GHz, the table height is 80 cm above the reference ground plane. Above 1 GHz, the table height is 1.5 m. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) or Horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.10:2020 requirements during radiated emission test.

The resolution bandwidth of Test Receiver R&S ESCI was set at 200 Hz from 9kHz to 150kHz, set 9kHz from 150kHz to 30MHz, and set at 120 kHz from 30MHz to 1000MHz.

The resolution bandwidth of Agilent N9010A was set at 1MHz for above 1GHz.

The frequency range from 9 kHz to 25 GHz (Up to 10th harmonics from fundamental frequency) was checked.

All the test results are listed in Sec.4.7.

3.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Frequency range: below 1GHz (Worst case emission)

No.	Operation	Mode	Channel	Frequency	Data Page
1.	Transmitting	802.11b	1	2412 MHz	P13-14

Note: The emissions between 9kHz to 30MHz were too low against the limit.

Frequency range: above 1GHz (Worst case emission)

No.	Operation	Mode	Channel	Frequency	Data Page
1.	Transmitting	802.11b	1	2412 MHz	P15-18
2.		802.11g	1	2412 MHz	P19-22
3.		802.11n20	1	2412 MHz	P23-26

Band-Edge and Restricted bands:

No.	Operation	Mode	Channel	Frequency	Data Page
1.	Transmitting	802.11b	1	2412 MHz	P27-28
2.			11	2462 MHz	P29-30
3.		802.11g	1	2412 MHz	P31-32
4.			11	2462 MHz	P33-34
5.		802.11n20	1	2412 MHz	P35-36
6.			11	2462 MHz	P37-38

NOTE 1 – Emission Level (dBμV/m) = Read Level (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Factor (dB)

Margin (dB) = Limits (dBμV/m) - Emission Level (dBμV/m).

NOTE 2 – “QP” means “Quasi-Peak” values

NOTE 3 – 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

NOTE 4 – The emission levels which not reported are too low against the official limit.

NOTE 5 – The emission levels recorded below is data of EUT configured in Side direction, for this direction was the maximum emission direction during the test. The data of Stand & Lying direction are too low against the official limit to be reported.

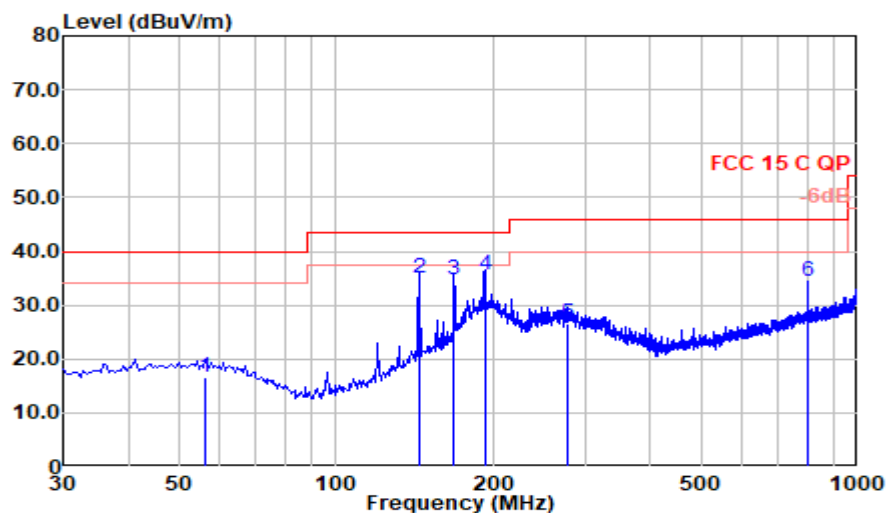
NOTE 6 – All reading are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.

For above 1GHz test, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

NOTE 7 – The frequency range 2310-2390MHz & 2483.5-2500MHz were tested for Restricted bands.

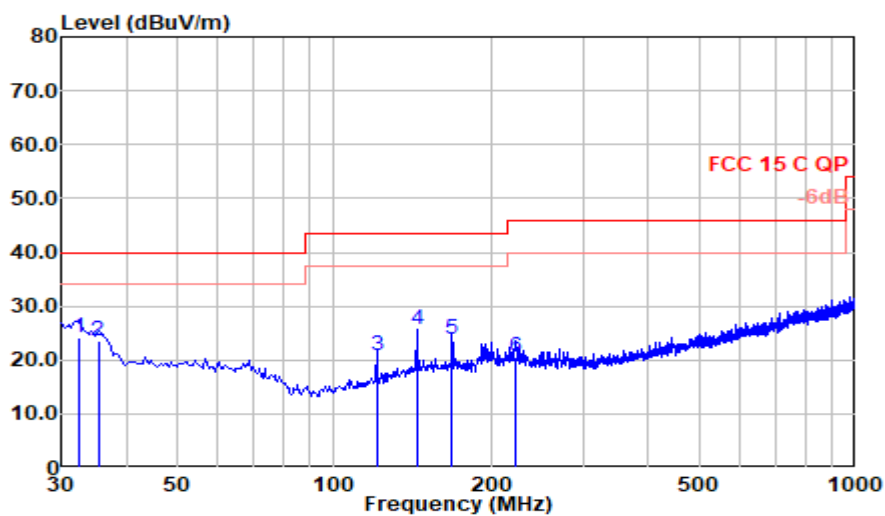
Radiated emission < 1GHz

Test Date:	2026.09.19	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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Mode: 802.11b CH2412MHz

Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
56.190	26.03	19.40	0.66	29.48	16.61	40.00	23.39	QP
143.975	44.37	18.90	0.91	29.22	34.96	43.50	8.54	QP
168.225	43.92	18.88	0.95	29.14	34.61	43.50	8.89	QP
192.960	47.14	16.40	1.06	29.03	35.56	43.50	7.94	QP
277.835	35.28	18.71	1.34	28.71	26.63	46.00	19.37	QP
800.180	33.52	28.40	2.22	29.70	34.44	46.00	11.56	QP

Mode: 802.11b CH2412MHz

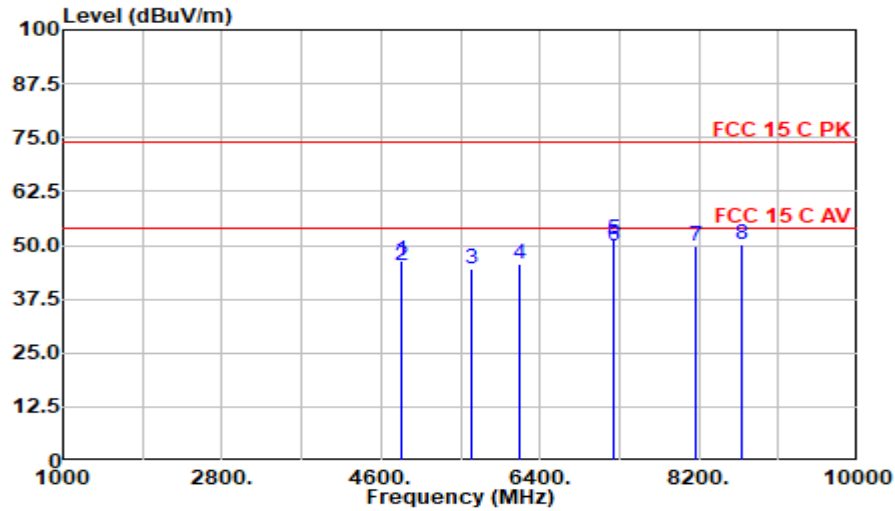
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
32.425	35.05	18.16	0.57	29.50	24.28	40.00	15.72	QP
35.335	33.89	18.43	0.58	29.50	23.41	40.00	16.59	QP
120.695	32.83	16.40	0.86	29.30	20.79	43.50	22.71	QP
143.975	35.22	18.90	0.91	29.22	25.81	43.50	17.69	QP
168.225	33.03	18.88	0.95	29.14	23.72	43.50	19.78	QP
223.515	32.47	15.67	1.18	28.88	20.44	46.00	25.56	QP

Radiated Emission 1GHz to 18GHz

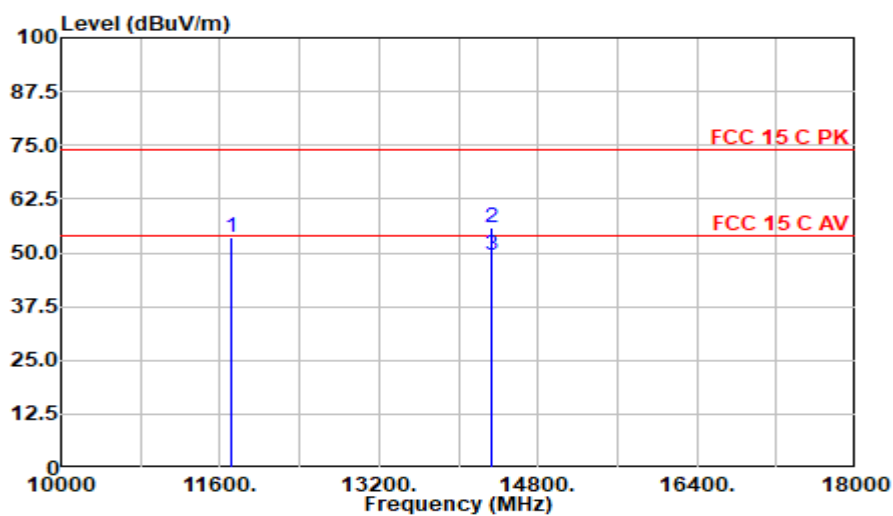
Test Date:	2026.09.19	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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Mode: 802.11b CH2412MHz

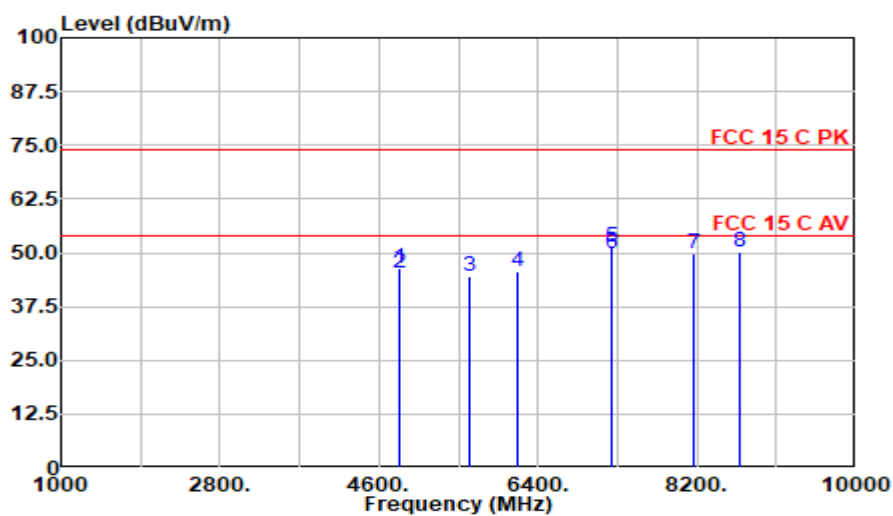


Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
4822.875	45.63	32.95	4.28	36.44	46.42	74.00	27.58	Peak
4822.875	44.58	32.95	4.28	36.44	45.37	54.00	8.63	Average
5624.000	42.69	33.95	4.75	36.69	44.70	74.00	29.30	Peak
6178.625	43.14	34.46	5.07	36.82	45.84	74.00	28.16	Peak
7234.750	46.50	36.34	5.35	37.00	51.19	74.00	22.81	Peak
7234.750	45.24	36.34	5.35	37.00	49.93	54.00	4.07	Average
8159.125	44.12	37.42	5.49	37.30	49.73	74.00	24.27	Peak
8686.125	43.52	38.40	5.60	37.30	50.22	74.00	23.78	Peak

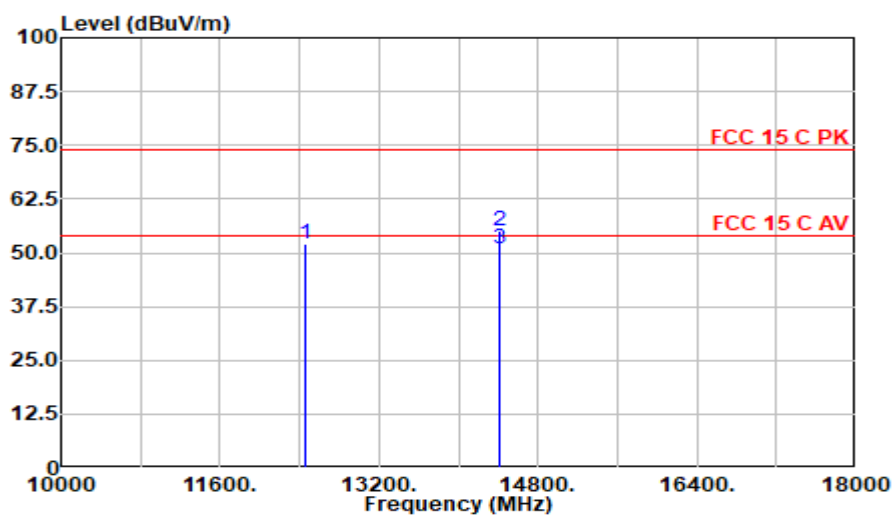
Mode: 802.11b CH2412MHz**Polarization at Horizontal**

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
11707.880	43.64	39.59	7.19	36.73	53.70	74.00	20.30	Peak
14323.750	43.08	42.10	7.66	37.13	55.70	74.00	18.30	Peak
14323.750	37.00	42.10	7.66	37.13	49.62	54.00	4.38	Average

Mode: 802.11b CH2412MHz

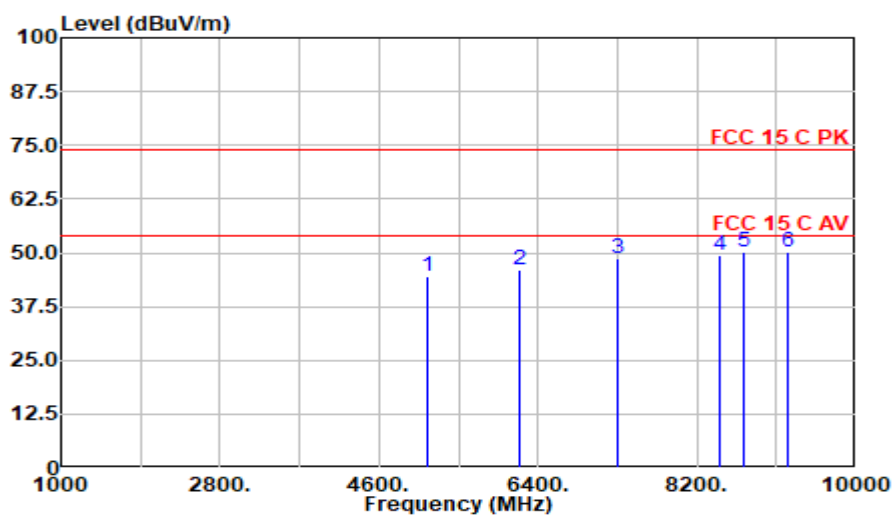
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
4397.875	43.21	32.30	4.05	36.27	43.28	74.00	30.72	Peak
4822.875	46.50	32.95	4.28	36.44	47.28	74.00	26.72	Peak
4823.980	45.04	32.95	4.28	36.44	45.83	54.00	8.17	Average
5991.625	44.63	33.98	4.99	36.80	46.81	74.00	27.19	Peak
7234.750	44.35	36.34	5.35	37.00	49.04	74.00	24.96	Peak
7234.750	42.35	36.34	5.35	37.00	47.04	54.00	6.96	Average
8063.500	43.54	37.47	5.47	37.30	49.18	74.00	24.82	Peak
8792.375	43.36	38.40	5.63	37.30	50.09	74.00	23.91	Peak

Mode: 802.11b CH2412MHz

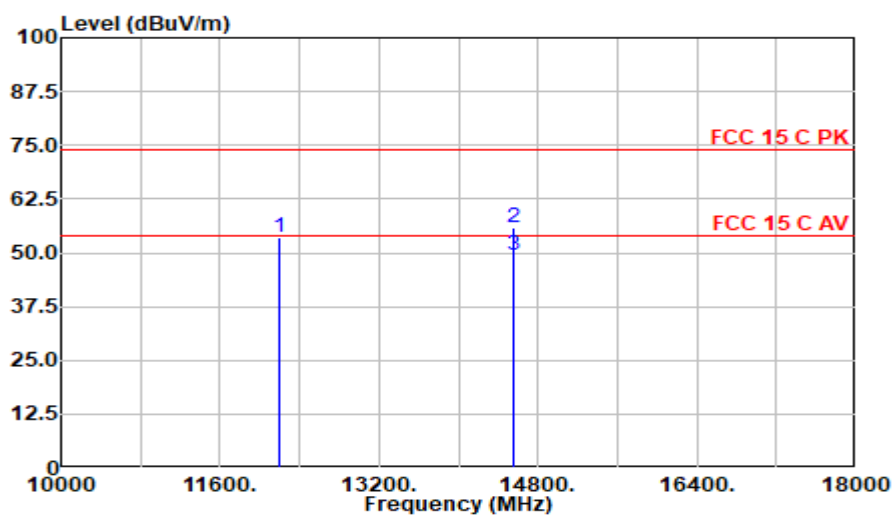
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
12455.880	42.96	38.70	7.26	37.03	51.90	74.00	22.10	QP
14413.000	42.47	42.14	7.65	37.09	55.18	74.00	18.82	QP
14413.000	38.05	42.14	7.65	37.09	50.76	54.00	3.24	Average

Mode: 802.11g CH2412MHz

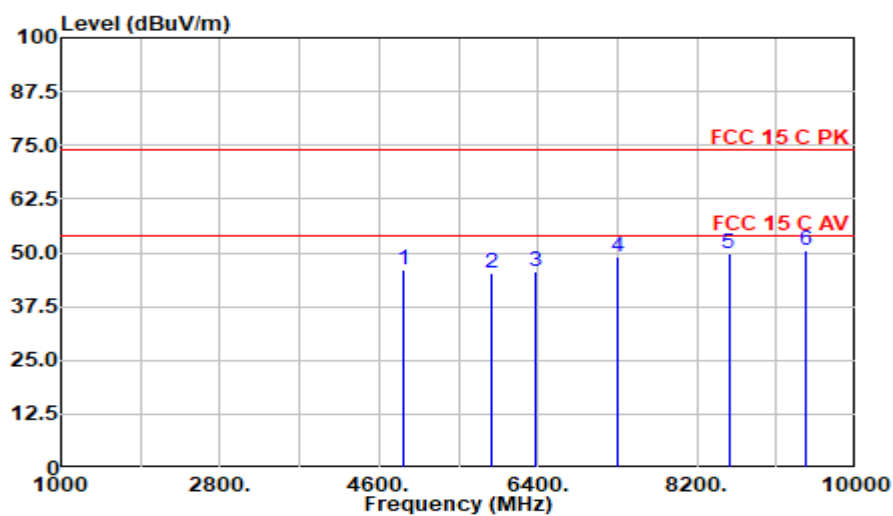
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
5158.625	43.15	33.42	4.47	36.55	44.49	74.00	29.51	Peak
6182.875	43.30	34.47	5.07	36.82	46.02	74.00	27.98	Peak
7309.125	43.76	36.72	5.38	37.03	48.83	74.00	25.17	Peak
8469.375	42.83	38.40	5.54	37.30	49.48	74.00	24.52	Peak
8730.750	43.42	38.40	5.62	37.30	50.14	74.00	23.86	Peak
9232.250	43.56	38.10	5.82	37.23	50.25	74.00	23.75	Peak

Mode: 802.11g CH2412MHz

Polarization at Horizontal

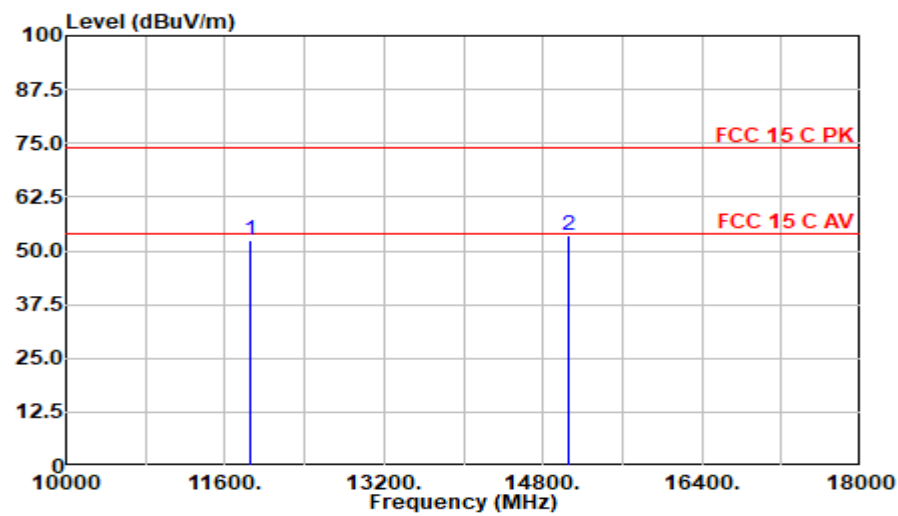
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
12205.130	44.30	38.80	7.19	36.85	53.45	74.00	20.55	Peak
14561.750	43.02	42.34	7.67	37.01	56.01	74.00	17.99	Peak
14561.750	36.26	42.34	7.67	37.01	49.25	54.00	4.75	Average

Mode: 802.11g CH2412MHz

Polarization at Vertical

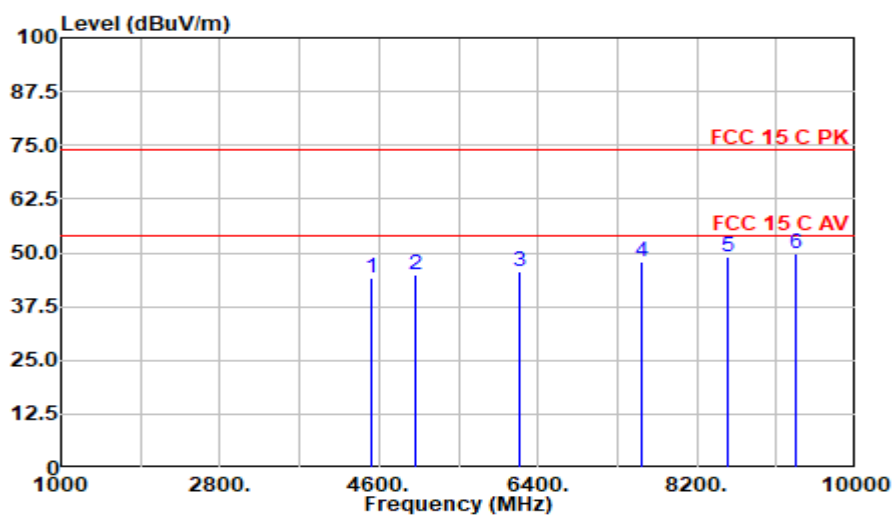
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
4871.750	45.29	33.09	4.30	36.45	46.23	74.00	27.77	Peak
5870.500	43.47	33.74	4.92	36.76	45.37	74.00	28.63	Peak
6378.375	42.92	34.44	5.14	36.84	45.66	74.00	28.34	Peak
7304.875	44.12	36.71	5.38	37.03	49.18	74.00	24.82	Peak
8560.750	43.04	38.40	5.57	37.30	49.70	74.00	24.30	Peak
9442.625	43.24	38.37	5.94	37.16	50.39	74.00	23.61	Peak

Mode: 802.11g CH2412MHz



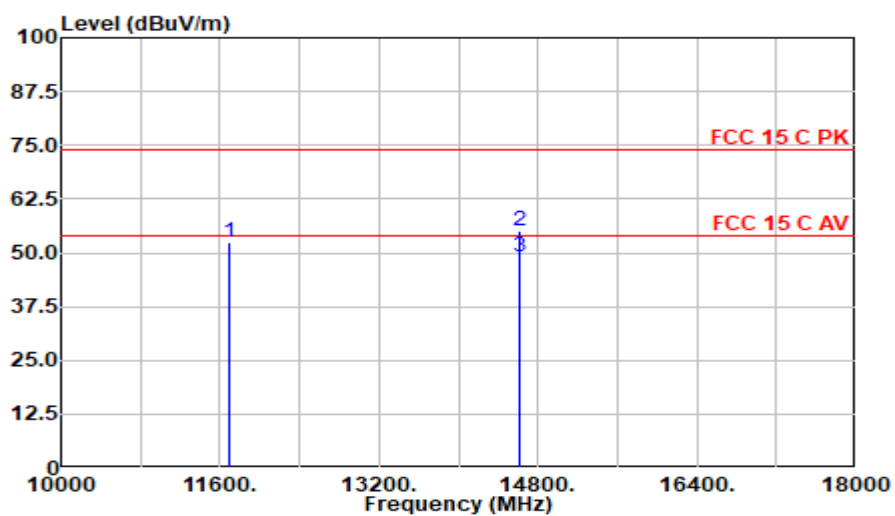
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
11858.750	42.84	39.32	7.17	36.71	52.62	74.00	21.38	QP
15056.880	42.00	40.73	7.85	36.84	53.75	74.00	20.25	QP

Mode: 802.11n CH2412MHz

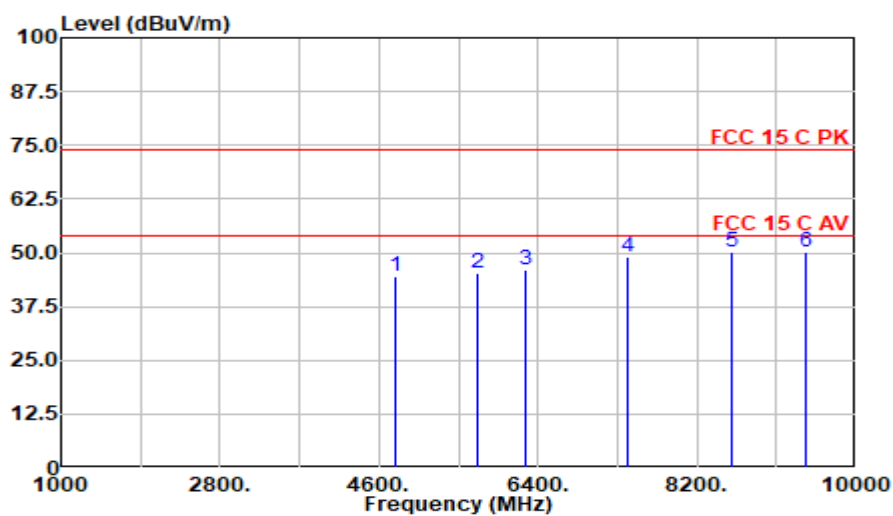
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
4514.750	43.91	32.47	4.11	36.32	44.17	74.00	29.83	Peak
5005.625	43.62	33.29	4.37	36.50	44.78	74.00	29.22	Peak
6202.000	42.77	34.50	5.07	36.82	45.53	74.00	28.47	Peak
7568.375	42.79	36.90	5.45	37.13	48.01	74.00	25.99	Peak
8548.000	42.49	38.40	5.56	37.30	49.16	74.00	24.84	Peak
9319.375	43.20	38.10	5.87	37.20	49.97	74.00	24.03	Peak

Mode: 802.11n CH2412MHz

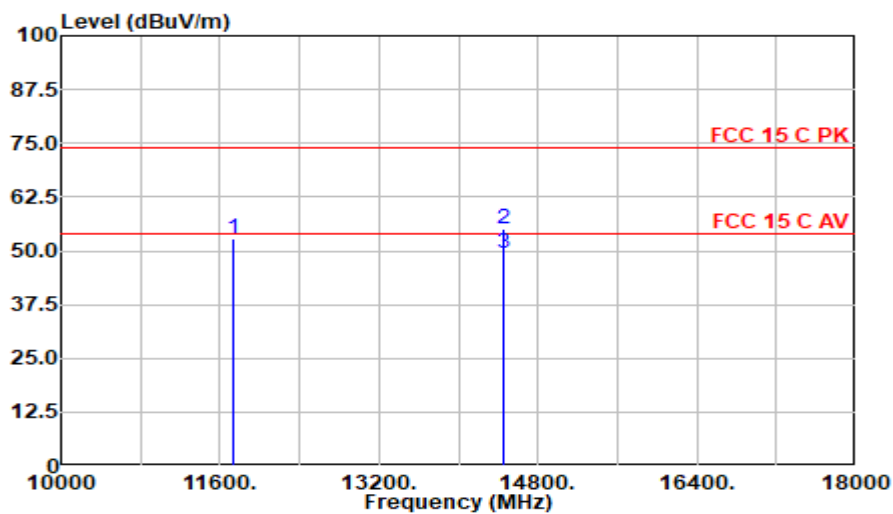
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
11699.380	42.22	39.60	7.19	36.73	52.28	74.00	21.72	Peak
14617.000	42.12	42.25	7.68	36.99	55.07	74.00	18.93	Peak
14617.000	36.25	42.25	7.68	36.99	49.19	54.00	4.81	Average

Mode: 802.11n CH2412MHz

Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
4788.875	43.68	32.83	4.26	36.42	44.35	74.00	29.65	Peak
5709.000	43.33	33.76	4.81	36.72	45.19	74.00	28.81	Peak
6267.875	43.33	34.50	5.10	36.83	46.10	74.00	27.90	Peak
7423.875	43.77	36.95	5.42	37.08	49.06	74.00	24.94	Peak
8588.375	43.50	38.40	5.58	37.30	50.17	74.00	23.83	Peak
9440.500	43.02	38.36	5.94	37.16	50.16	74.00	23.84	Peak

Mode: 802.11n CH2412MHz

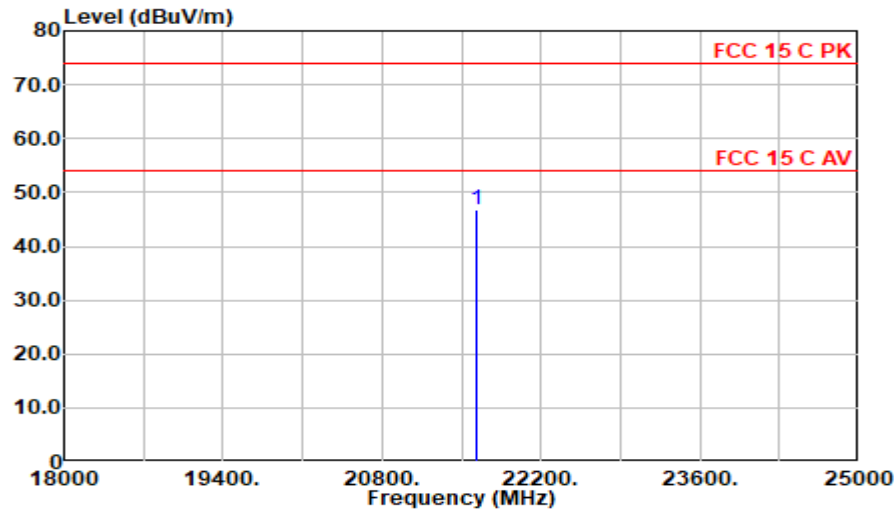
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
11724.880	42.62	39.58	7.19	36.73	52.66	74.00	21.34	Peak
14461.880	42.14	42.29	7.65	37.06	55.02	74.00	18.98	Peak
14461.880	36.54	42.29	7.65	37.06	49.41	54.00	4.59	Average

Radiated Emission > 18GHz

Test Date:	2026.09.19	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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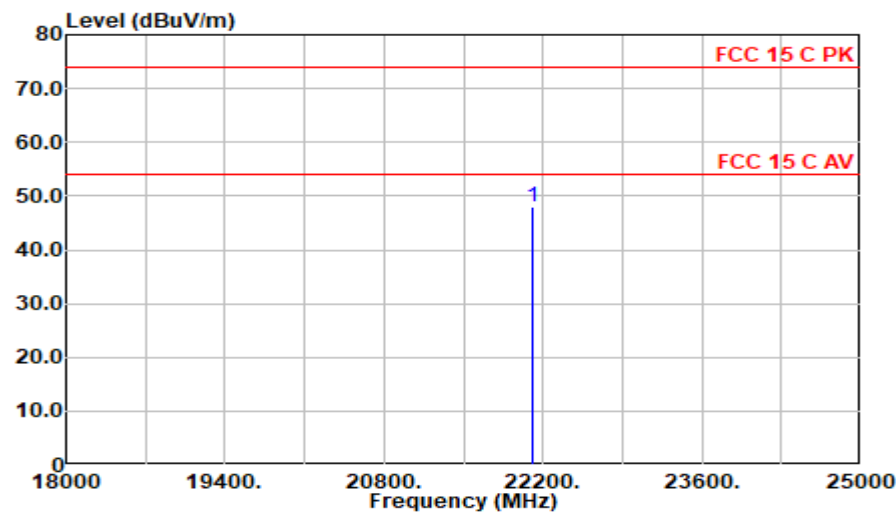
Mode: 802.11b CH2412MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
21630.120	47.57	45.00	8.25	54.00	46.81	74.00	27.19	Peak

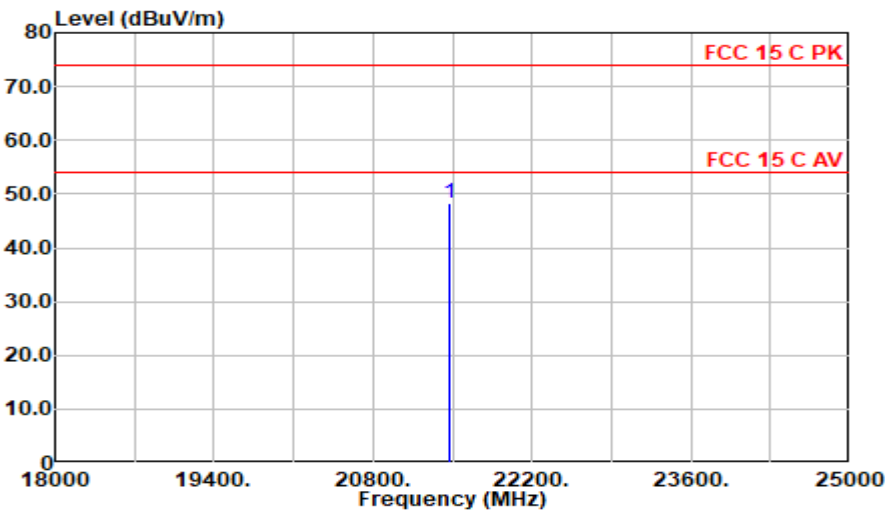
Mode: 802.11b CH2412MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
22101.530	48.56	45.00	8.33	53.98	47.92	74.00	26.08	Peak

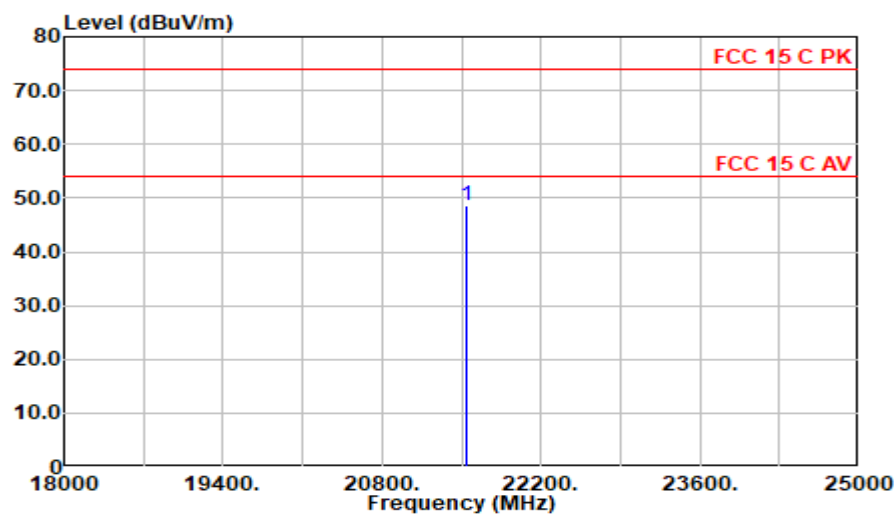
Mode: 802.11g CH2412MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
21475.320	48.98	45.11	8.22	54.00	48.31	74.00	25.69	Peak

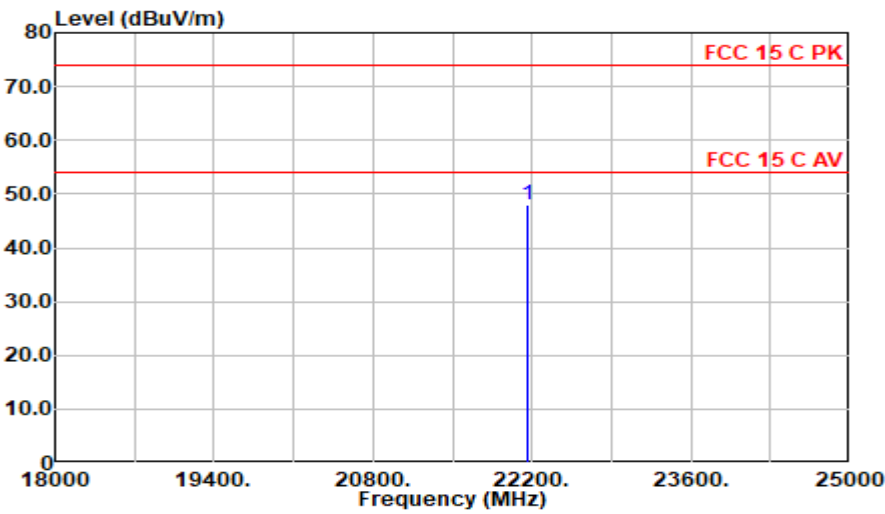
Mode: 802.11g CH2412MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
21544.350	49.21	45.06	8.23	54.00	48.51	74.00	25.49	Peak

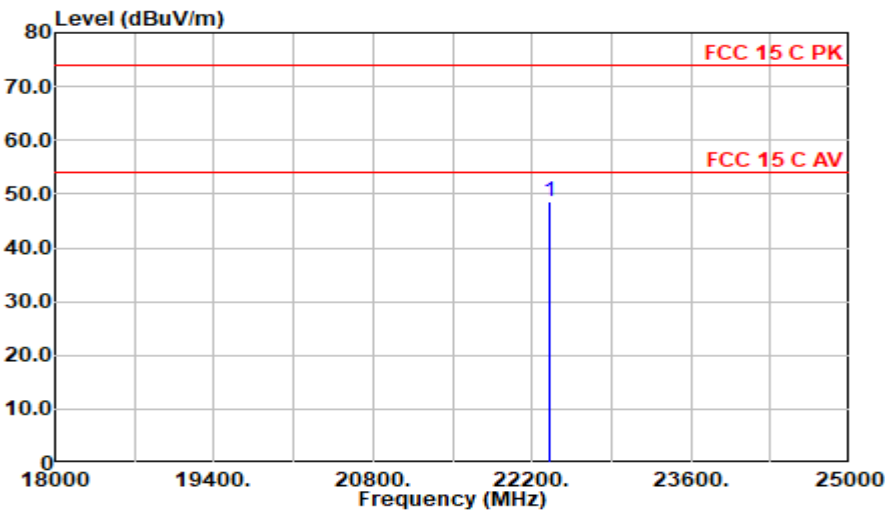
Mode: 802.11n CH2412MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
22156.500	48.58	45.00	8.34	53.97	47.95	74.00	26.05	Peak

Mode: 802.11n CH2412MHz



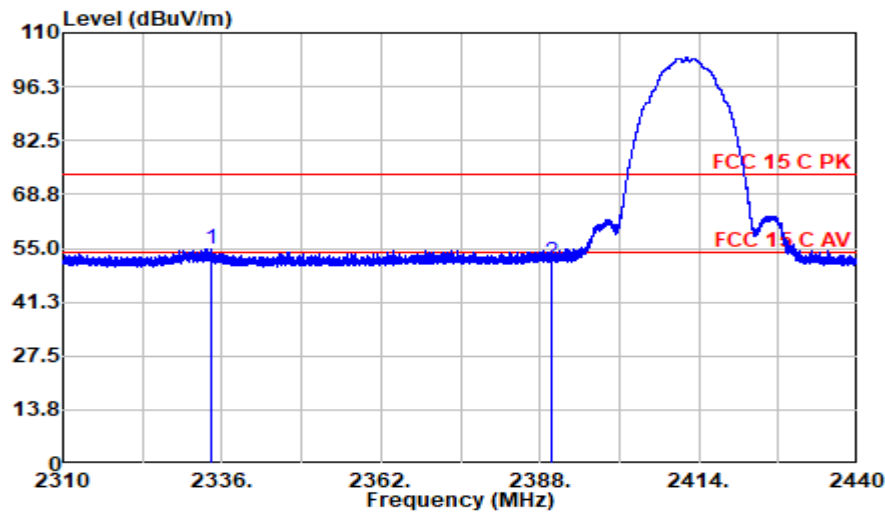
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
22351.400	49.20	45.08	8.36	53.93	48.72	74.00	25.28	Peak

Band-Edge and Restricted bands:

Test Date:	2026.09.19	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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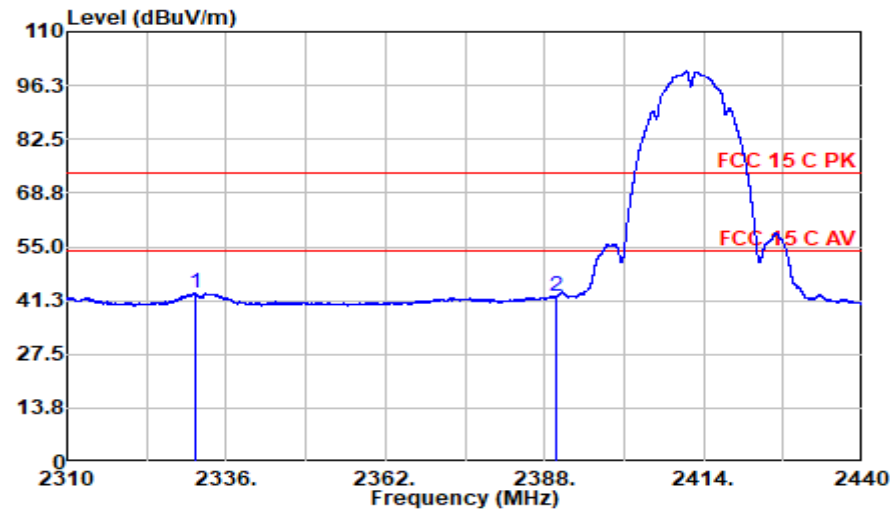
Mode: 802.11b CH2412MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2334.294	58.60	29.44	2.91	36.20	54.74	74.00	19.26	Peak
2390.000	54.76	29.74	2.94	36.13	51.31	74.00	22.69	Peak

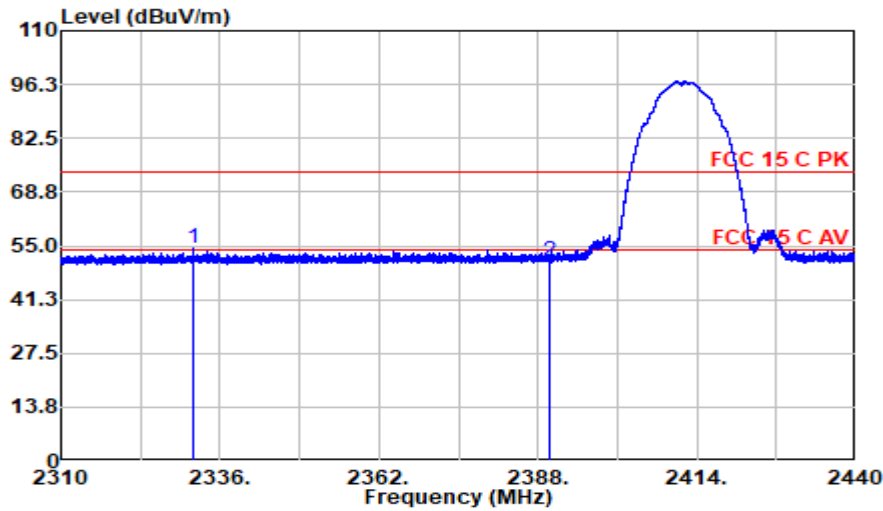
Mode: 802.11b CH2412MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2330.849	46.94	29.42	2.91	36.21	43.06	54.00	10.94	Average
2390.000	45.67	29.74	2.94	36.13	42.21	54.00	11.79	Average

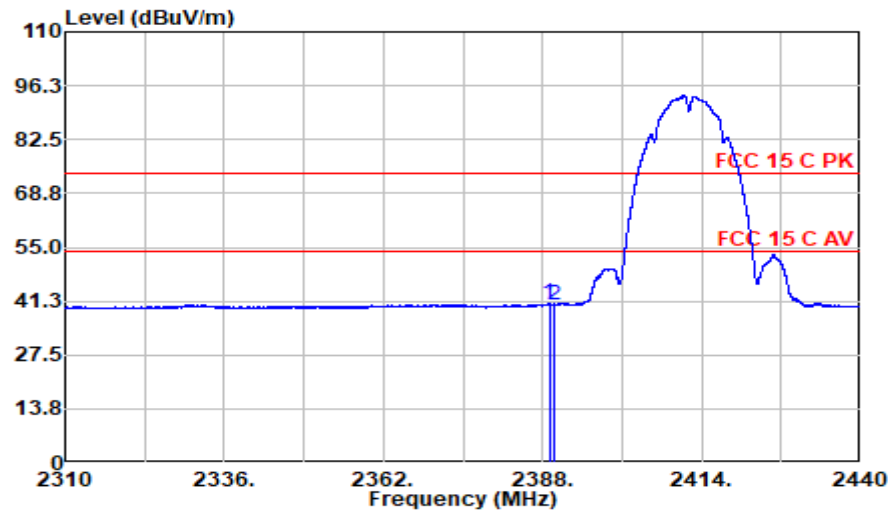
Mode: 802.11b CH2412MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2331.466	58.33	29.43	2.91	36.21	54.46	74.00	19.54	Peak
2390.000	54.67	29.74	2.94	36.13	51.21	74.00	22.79	Peak

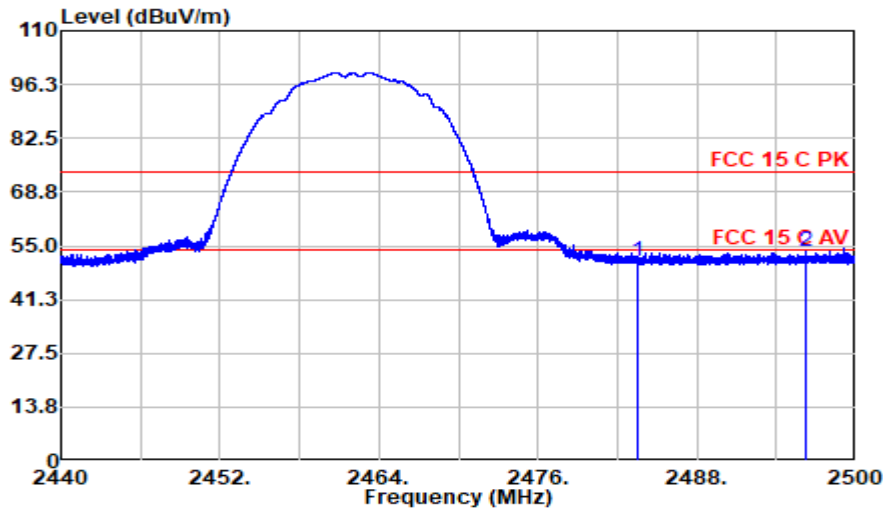
Mode: 802.11b CH2412MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2389.089	44.16	29.74	2.94	36.13	40.70	54.00	13.30	Average
2390.000	43.77	29.74	2.94	36.13	40.32	54.00	13.68	Average

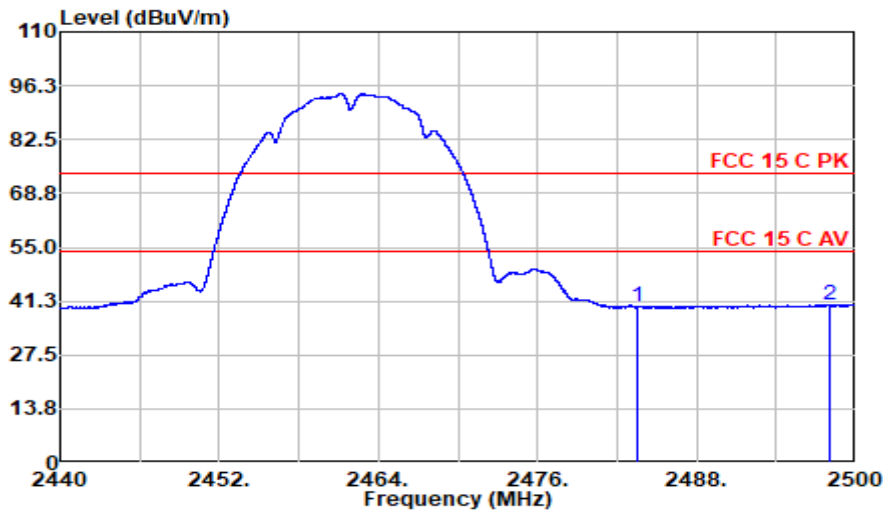
Mode: 802.11b CH2462MHz



Polarization at Horizontal

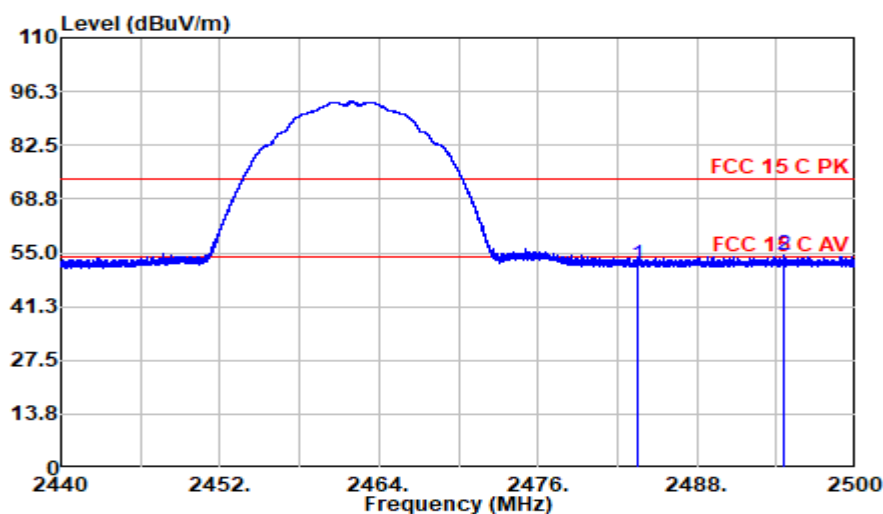
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	54.18	29.83	2.98	36.01	50.99	74.00	23.01	Peak
2496.235	56.59	29.89	2.99	35.99	53.47	74.00	20.53	Peak

Mode: 802.11b CH2462MHz



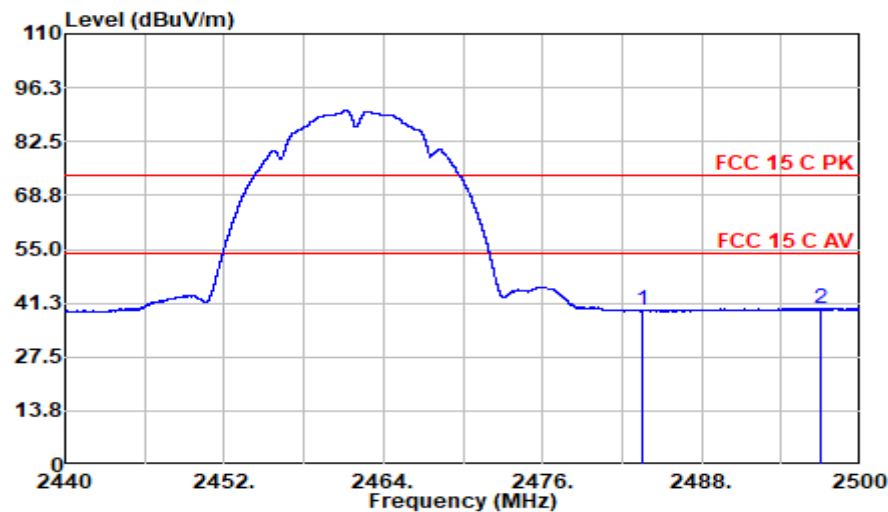
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	42.84	29.83	2.98	36.01	39.65	54.00	14.35	Average
2498.103	43.56	29.89	2.99	35.99	40.45	54.00	13.55	Average

Mode: 802.11b CH2462MHz

Polarization at Vertical

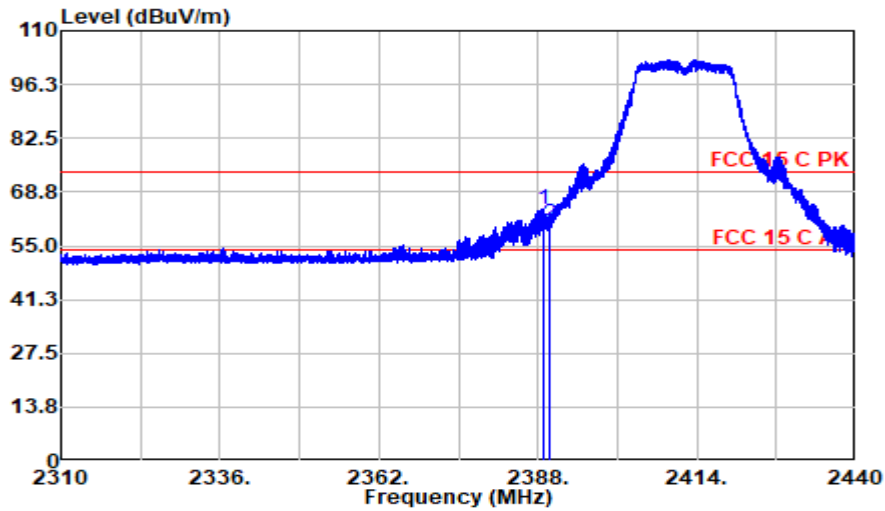
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	54.95	29.83	2.98	36.01	51.76	74.00	22.24	Peak
2494.570	57.48	29.88	2.99	35.99	54.35	74.00	19.65	Peak

Mode: 802.11b CH2462MHz

Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	42.62	29.83	2.98	36.01	39.43	54.00	14.57	Average
2496.948	42.96	29.89	2.99	35.99	39.85	54.00	14.15	Average

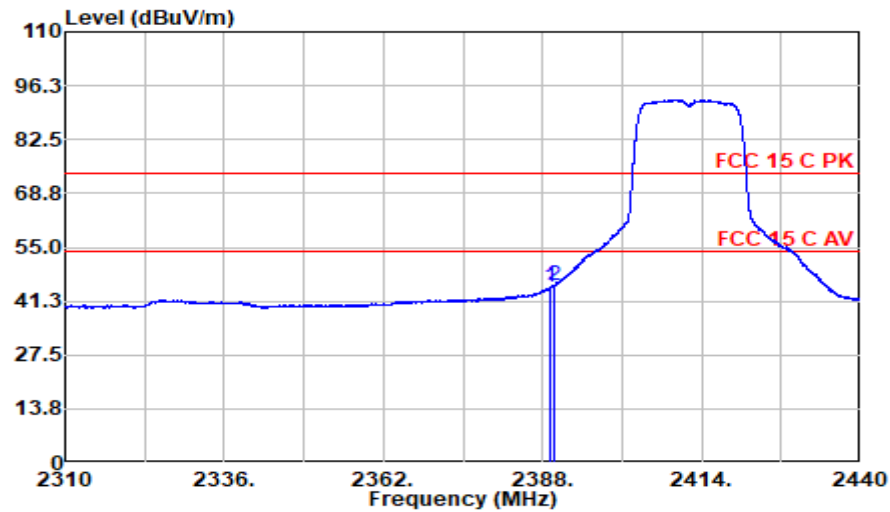
Mode: 802.11g CH2412MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2388.829	67.84	29.73	2.93	36.13	64.37	74.00	9.63	Peak
2390.000	64.03	29.74	2.94	36.13	60.58	74.00	13.42	Peak

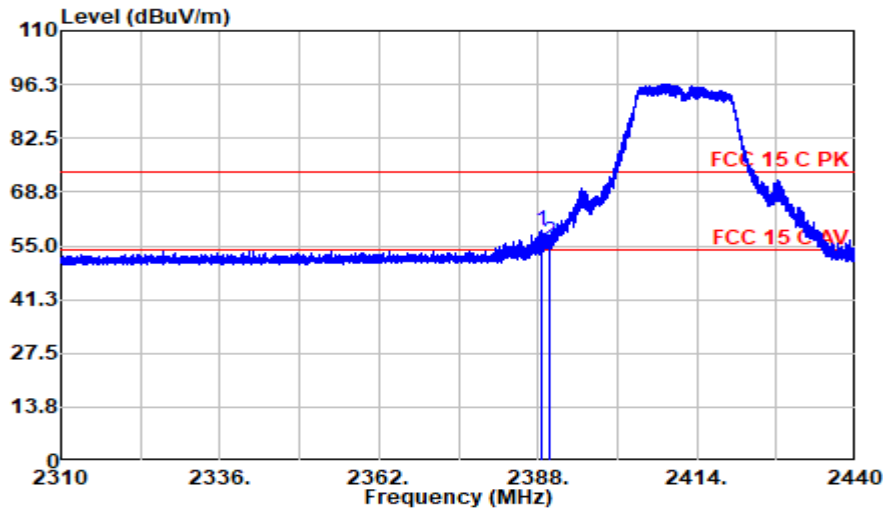
Mode: 802.11g CH2412MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2389.349	48.28	29.74	2.94	36.13	44.82	54.00	9.18	Average
2390.000	48.75	29.74	2.94	36.13	45.30	54.00	8.70	Average

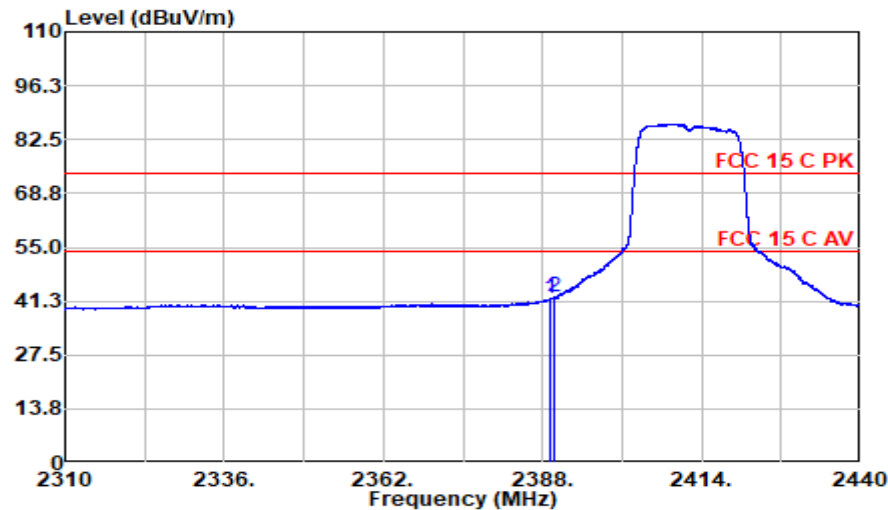
Mode: 802.11g CH2412MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2388.634	62.28	29.73	2.93	36.13	58.82	74.00	15.18	Peak
2390.000	59.52	29.74	2.94	36.13	56.07	74.00	17.93	Peak

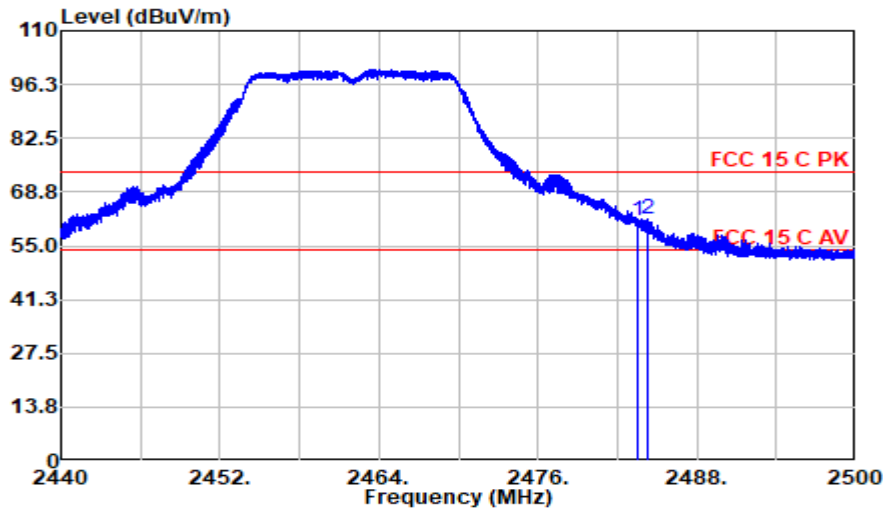
Mode: 802.11g CH2412MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2389.219	45.38	29.74	2.94	36.13	41.92	54.00	12.08	Average
2390.000	45.65	29.74	2.94	36.13	42.19	54.00	11.81	Average

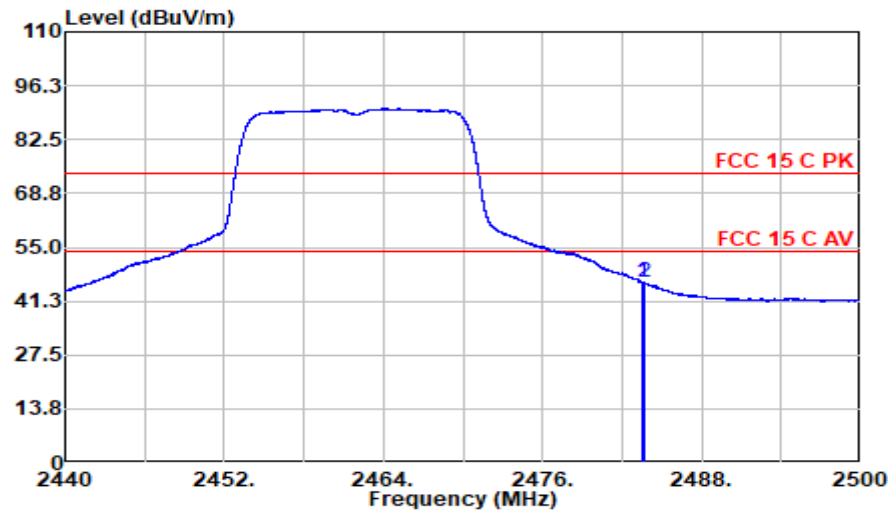
Mode: 802.11g CH2462MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	64.69	29.83	2.98	36.01	61.50	74.00	12.50	Peak
2484.325	65.05	29.84	2.98	36.00	61.87	74.00	12.13	Peak

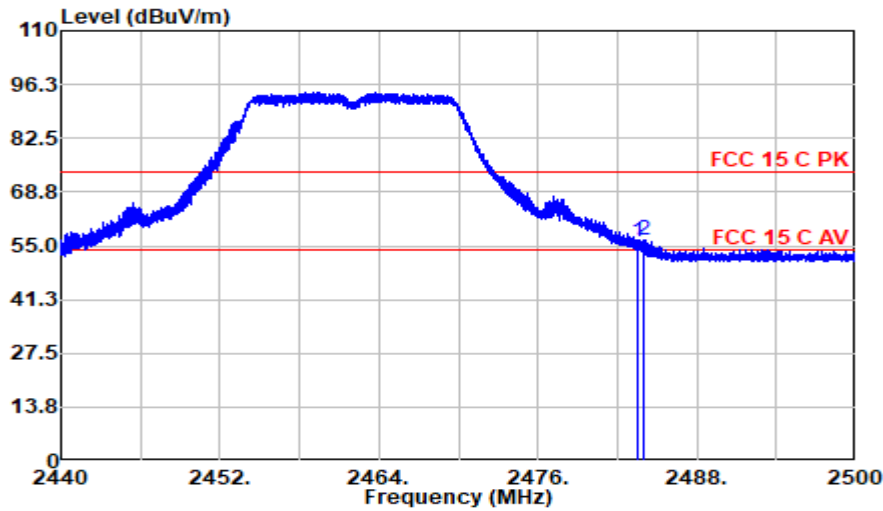
Mode: 802.11g CH2462MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	49.40	29.83	2.98	36.01	46.21	54.00	7.79	Average
2483.673	49.22	29.84	2.98	36.01	46.03	54.00	7.97	Average

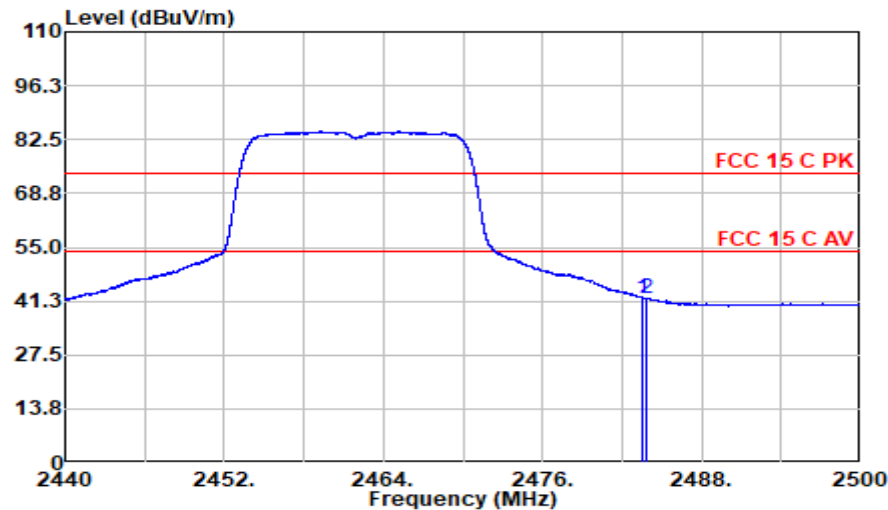
Mode: 802.11g CH2462MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	59.26	29.83	2.98	36.01	56.07	74.00	17.93	Peak
2483.913	59.75	29.84	2.98	36.01	56.56	74.00	17.44	Peak

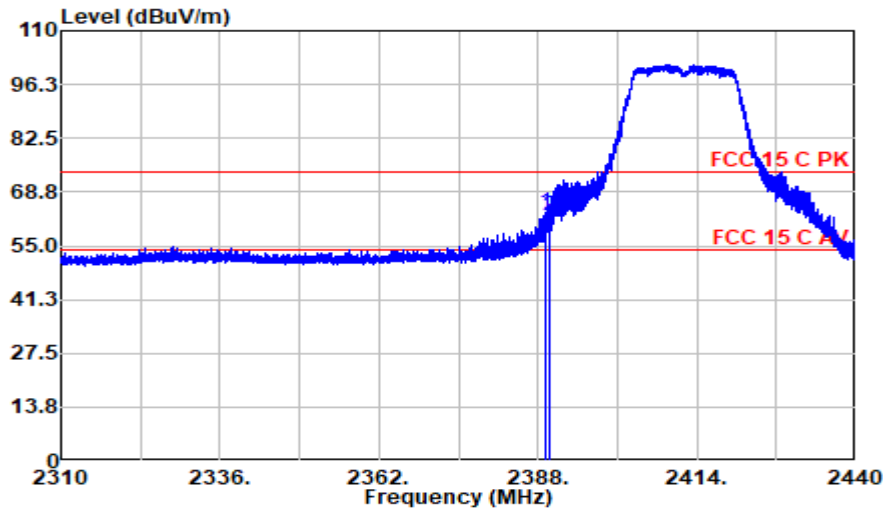
Mode: 802.11g CH2462MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	45.27	29.83	2.98	36.01	42.08	54.00	11.92	Average
2483.792	45.25	29.84	2.98	36.01	42.06	54.00	11.94	Average

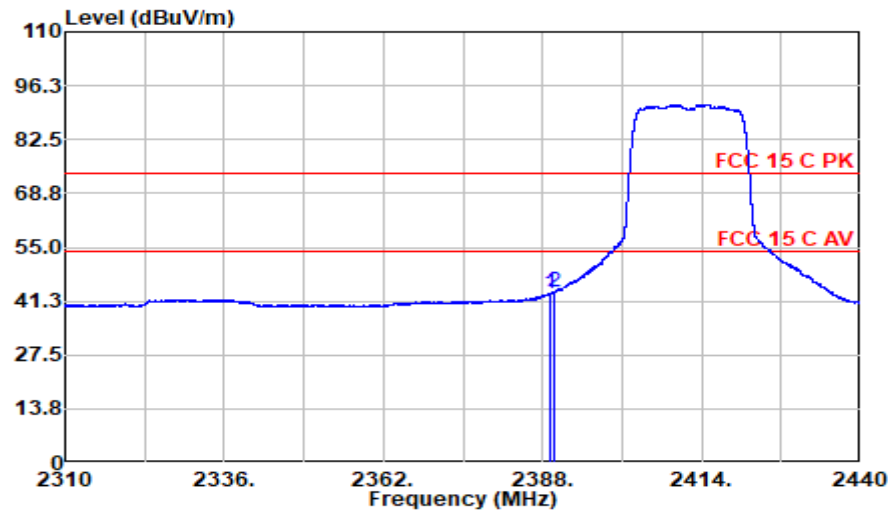
Mode: 802.11n CH2412MHz



Polarization at Horizontal

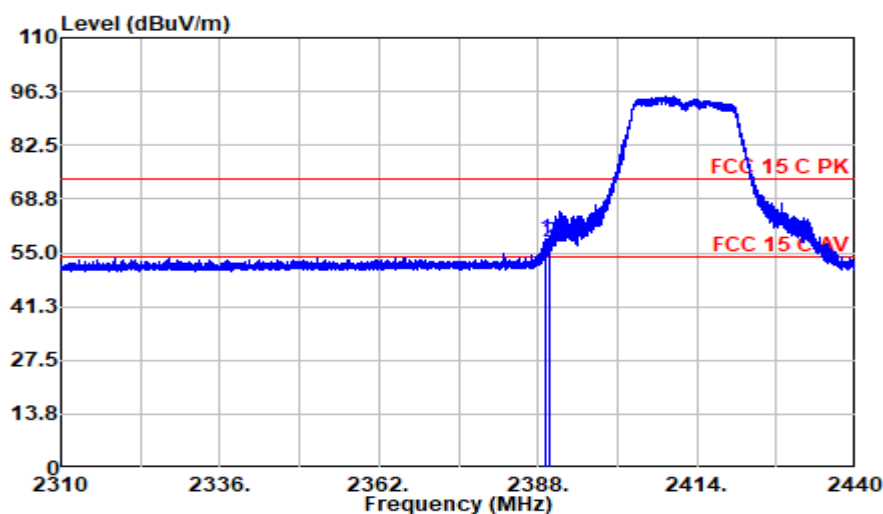
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2389.349	66.78	29.74	2.94	36.13	63.32	74.00	10.68	Peak
2390.000	66.27	29.74	2.94	36.13	62.82	74.00	11.18	Peak

Mode: 802.11n CH2412MHz



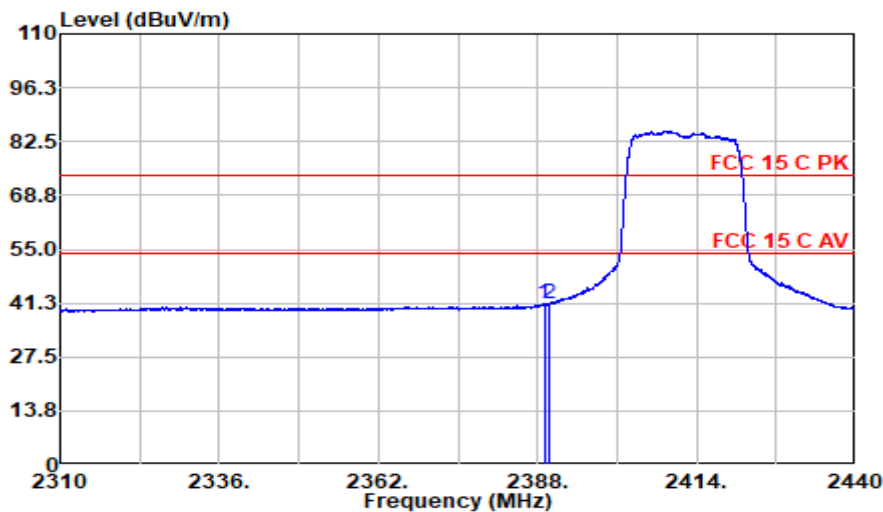
Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2389.349	46.69	29.74	2.94	36.13	43.23	54.00	10.77	Average
2390.000	46.97	29.74	2.94	36.13	43.52	54.00	10.48	Average

Mode: 802.11n CH2412MHz

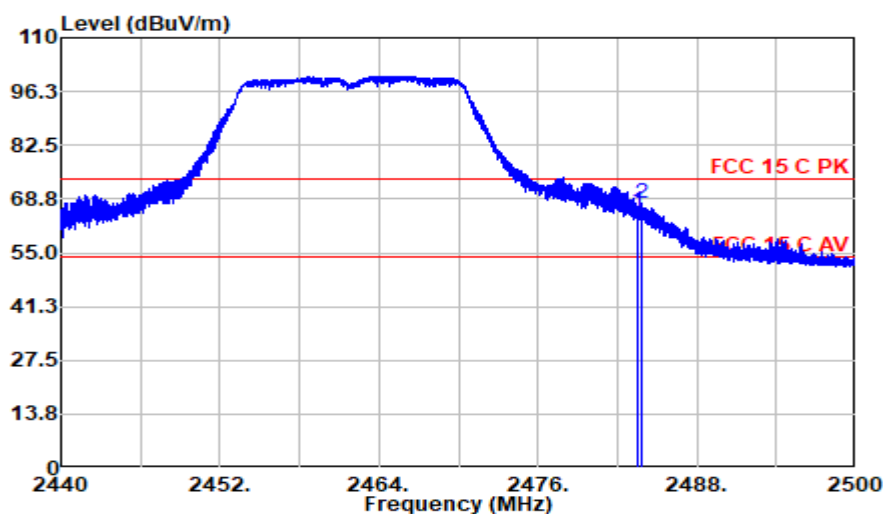
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2389.316	61.86	29.74	2.94	36.13	58.40	74.00	15.60	Peak
2390.000	61.25	29.74	2.94	36.13	57.80	74.00	16.20	Peak

Mode: 802.11n CH2412MHz

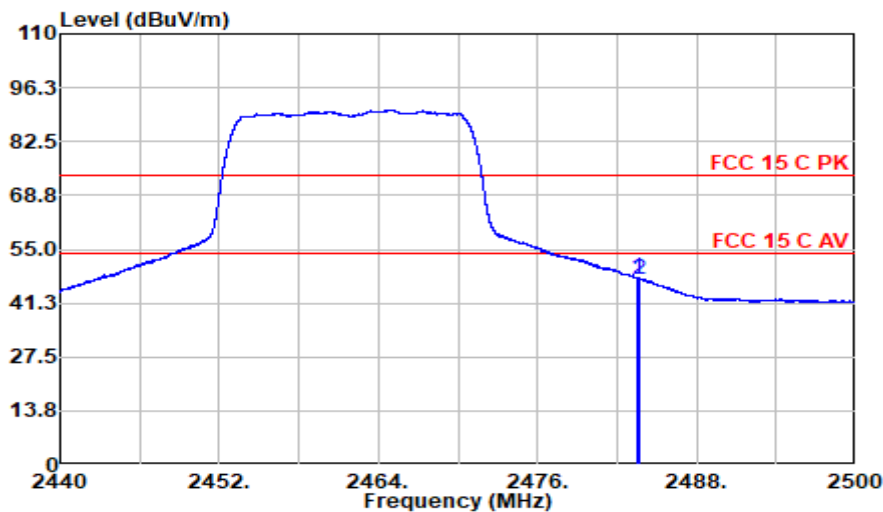
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2389.089	44.38	29.74	2.94	36.13	40.92	54.00	13.08	Average
2390.000	44.69	29.74	2.94	36.13	41.24	54.00	12.76	Average

Mode: 802.11n CH2462MHz

Polarization at Horizontal

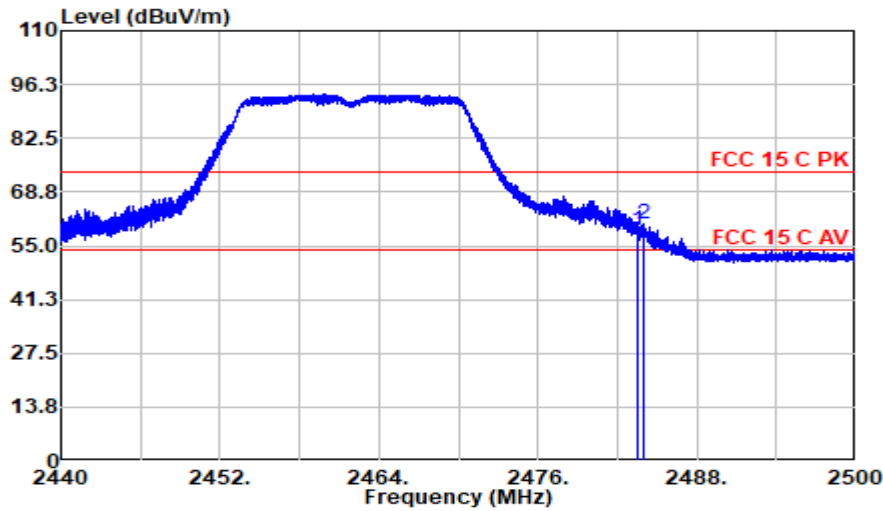
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	68.73	29.83	2.98	36.01	65.54	74.00	8.46	Peak
2483.890	71.01	29.84	2.98	36.01	67.82	74.00	6.18	Peak

Mode: 802.11n CH2462MHz

Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	50.84	29.83	2.98	36.01	47.65	54.00	6.35	Average
2483.710	50.70	29.84	2.98	36.01	47.51	54.00	6.49	Average

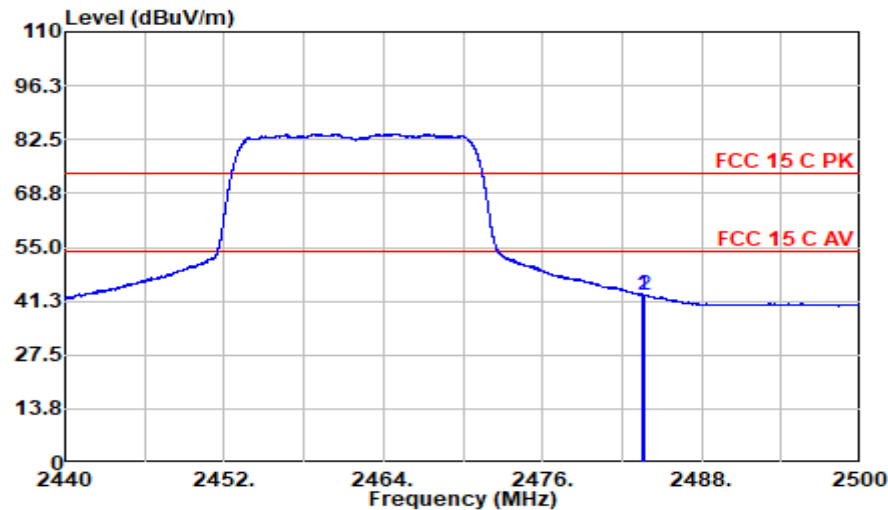
Mode: 802.11n CH2462MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	62.24	29.83	2.98	36.01	59.05	74.00	14.95	Peak
2484.048	63.68	29.84	2.98	36.01	60.50	74.00	13.50	Peak

Mode: 802.11n CH2462MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	46.04	29.83	2.98	36.01	42.85	54.00	11.15	Average
2483.718	46.10	29.84	2.98	36.01	42.91	54.00	11.09	Average

4 ANTENNA REQUIREMENT

4.1 Specification Limits (§15.203)

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

4.2 Result

According to KDB 353028 D1, the following describes the three ways that can be used to demonstrate compliance to Section 15.203:

- a) Antenna permanently attached.
- b) Unique (non-standard) antenna connector.
- c) Professional installation.

For this product, the antenna is:

- ☒ Antenna permanently attached
- ☐ Unique (non-standard) antenna connector
- ☐ Professional installation
- ☐ not meet any of ways list above

that

- ☒ compliant
- ☐ not compliant

with the requirement of Section 15.203.

5 MEASUREMENT UNCERTAINTY LIST

The measurement uncertainty was estimated for test on the EUT according to CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage of K=2.

The uncertainties value is not used in determining the PASS/FAIL results.

Test Items/Facilities	Frequency/Equipment/Unit	Uncertainty
Conducted Emission No.1 Shielded Room	9kHz~150kHz	±3.1 dB
	150kHz~30MHz	±2.6 dB
Conducted Emission No.3 Shielded Room	9kHz~150kHz	±3.1 dB
	150kHz~30MHz	±2.6 dB
Radiated Emission	30MHz~200MHz, Horizontal	±3.8 dB
	30MHz~200MHz, Vertical	±4.1 dB
	200MHz~1000MHz, Horizontal	±3.6 dB
	200MHz~1000MHz, Vertical	±5.1 dB
	1GHz~6GHz	±5.3 dB
	6GHz~18GHz	±5.3 dB
	18GHz~40GHz	±3.5 dB
Output Power Test	50MHz~18GHz	0.77 dB
Power Density Test	9kHz~6GHz	1.08 dB
RF Frequency Test	9kHz~40GHz	6×10^{-4}
Bandwidth Test	9kHz~6GHz	1.5×10^{-3}
RF Radiated Power Test	30MHz~1000MHz	3.06 dB
Conducted Output Power Test	50MHz~18GHz	0.83 dB
AC Voltage(<10kHz) Test	120V~230V	0.04 %
DC Power Test	0V~30V	0.4 %
Temperature	-40°C~+100°C	0.52 °C
Humidity	30%~95%	2.6 %