

TEST REPORT

On behalf of

Savant Technologies LLC, dba GE Lighting, a Savant company

Product Name: Direct Connect Full Color A19

Model No.: CLEDA199CD1@

FCC ID: PUU-A19-DMFCVIII

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.
3F, Building 34, No. 680 Guiping Rd.,
Caohejing, Hi-Tech Park,
Shanghai 200233, China

Tel: +86-21-64955500



File No. : C1D2404044
Report No. : ACI-F24109
Date of Test : 2024.05.28-06.14
Date of Report : 2024.07.03

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.

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TEST REPORT

Applicant : Savant Technologies LLC, dba GE Lighting, a Savant company
EUT Description : Direct Connect Full Color A19
(A) Model No. : Refer to Sec.2.1
(B) Power Supply : 120V AC 60Hz
(C) Test Voltage : 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C
AND ANSI C63.10-2013*

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-F24110 report.

Date of Test : 2024.05.28-06.14 Date of Report : 2024.07.03

Producer : Mindy Wang
MINDY WANG / Assistant

Review : Jarey Lu
JAREY LU / Supervisor

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

Signatory : Kamp Chen
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 C63.10:2013	Pass	15.207
Radiated Emission	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	Pass	15.209(a) 15.205(a)(c)
6 dB Bandwidth Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	Pass	15.247(a)(2)
Maximum Output Power Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	Pass	15.247(b)(3)
Emission Limitations Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	Pass	15.247(d)
Band Edge Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	Pass	15.247(d)
Power Spectral Density Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	Pass	15.247(e)
Antenna Requirement	FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10:2013	Pass	15.203
N/A is an abbreviation for Not Applicable.			

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : Direct Connect Full Color A19

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

Model Number : CLEDA199CD1@

Note : @ represents different package type or CCT

Test Model : CLEDA199CD1G

Radio Tech : BLE 5.0;
IEEE 802.11 b/g/n.

Channel Freq. : BLE: 2402MHz-2480MHz;
802.11b/g/n20: 2412MHz-2462MHz;
802.11n40: 2422MHz-2452MHz.

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

Antenna Info. : Antenna Type: PCB Antenna
Antenna Gain: 0.76 dBi

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

Manufacturer : same as Applicant

Factory : LEEDARSON LIGHTING CO., LTD.
Xingtai Industrial Zone, Economic Development Zone,
Changtai County, Zhangzhou city, Fujian Province, P.R.
China

2.2 EUT Specifications Assessed in Current Report

Mode	Modulation	Data Rate(Mbps)
802.11b	DS (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
802.11n-HT 40	OFDM (64-QAM, 16-QAM, QPSK, BPSK)	Up to 150

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

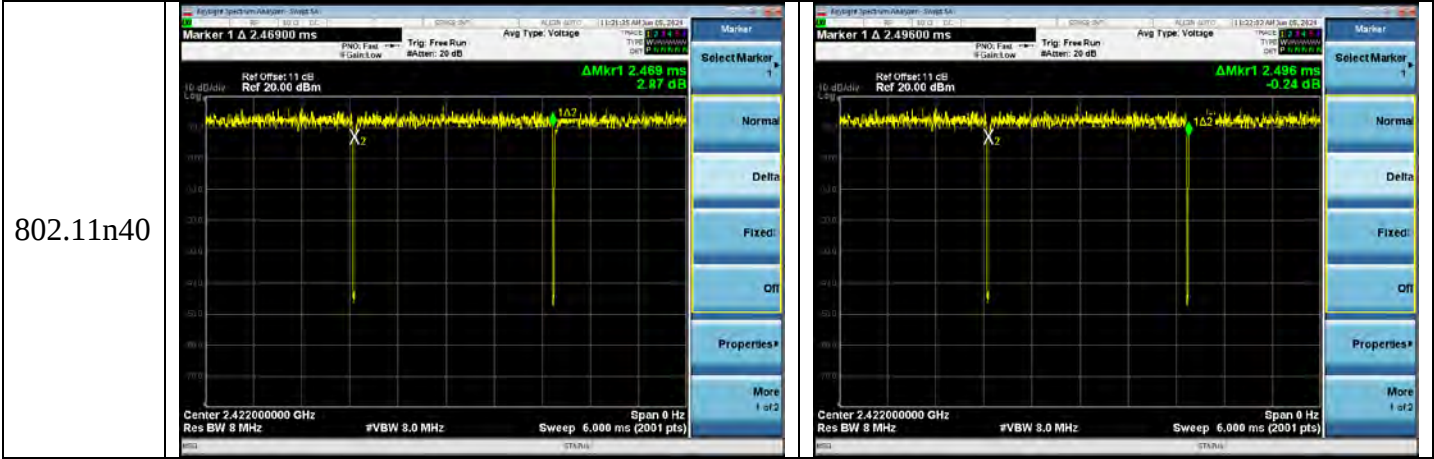
The test software “ EspRFTestTool_v2.8_Manual.exe” was used to control EUT work in TX mode, Power Index and select test channel.

Mode	data rate (Mbps)	Attenuator Setting	Test Channel		Frequency (MHz)
802.11b	11	0	Low:	1	2412
		0	Middle:	6	2437
		0	High:	11	2462
802.11g	6	0	Low:	1	2412
		0	Middle:	6	2437
		0	High:	11	2462
802.11n20	MCS0	0	Low:	1	2412
		0	Middle:	6	2437
		0	High:	11	2462
802.11n40	MCS0	8	Low:	3	2422
		8	Middle:	6	2437
		8	High:	9	2452

2.4 Duty Cycle Check

Mode	Transmission Duration (ms)	Transmission Period (ms)	Duty Cycle (%)	Duty Cycle Correct Factor
802.11b	3.171	3.189	99.44	N/A
802.11g	5.485	5.51	99.55	N/A
802.11n20	5.08	5.105	99.51	N/A
802.11n40	2.469	2.496	98.92	N/A





2.5 Sample Description

Test Item	Model Number	Sample Number	Date of receipted
Conducted Emission	CLEDA199CD1G	E20240528403-01/01	2024.05.28
Radiated Emission	CLEDA199CD1G	E20240528403-01/01	2024.05.28
Conducted RF Test	CLEDA199CD1G	E20240528403a-01/01	2024.05.28

2.6 Supported equipment

Brand	:	Acer
Product Name:	:	Notebook PC
Model Name	:	TravelMate P238 series
Model Number	:	N15W8
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 CONDUCTED EMISSION TEST

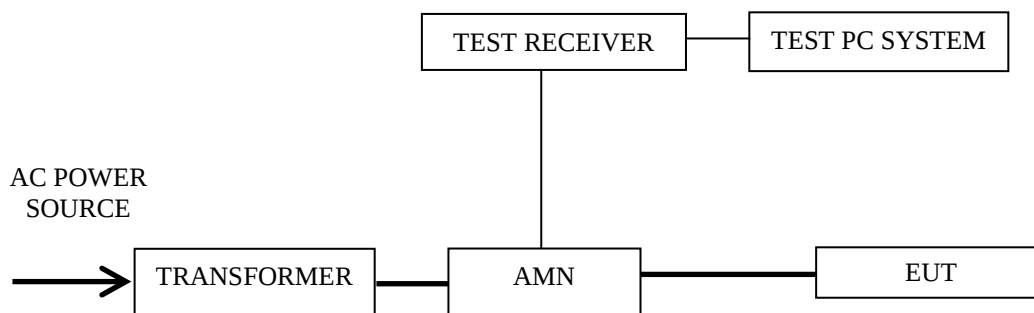
3.1 Test Equipment

The following test equipments are used during the conducted emission test in a shielded room:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESCI	101302	2024.02.22	1 Year
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	2024.02.22	1 Year
3.	Fixed Attenuator	SHYL	TTS-1	001	2024.02.22	1 Year
4.	50Ω Coaxial Switch	Anritsu	MP59B	6200655085	2024.02.22	1 Year
5.	Coaxial Cable	Audix	CE Cable	CE-SH1-001	2024.02.22	1 Year
6.	Software	Audix	e3	e3.v9.210616	--	--

3.2 Block Diagram of Test Setup

3.2.1 Conducted Disturbance Test Setup



3.3 Conducted Emission Limits (§15.207)

Frequency Range (MHz)	Limits dB(μV)	
	Quasi-peak	Average
0.15 ~ 0.5	66~56	56~46
0.5 ~ 5	56	46
5 ~ 30	60	50
NOTE 1 – The lower limit shall apply at the transition frequencies. NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz		

3.4 Test Configuration

The EUT (listed in Sec.2.1) was installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner which 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. 3.2.

3.5.2 Turn on the power of all equipment.

3.5.3 Turn the EUT on the test mode, and then test.

3.6 Test Procedures

The EUT was placed upon a non-metallic table, which is 0.8 m above the horizontal conducting ground plane and 0.4 m from a vertical reference plane. The EUT was connected to the power mains through an Artificial Mains Network (AMN) to provide a 50 Ω coupling impedance for the measuring equipment. Both sides of AC line (Line & Neutral) were checked to find out the maximum conducted emission according to FCC Part 15 Subpart C and ANSI C63.10: 2013 requirements during conducted disturbance test.

The I.F. bandwidth of Test Receiver ESCI was set at 9 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

Test with a dummy load in lieu of the antenna to determine compliance with Section 15.207 limits within the transmitter's fundamental emission band. (According to KDB 174176 D01 Line Conducted FAQ)

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7

3.7 Test Results

< **PASS** >

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

Worst case emission:

No.	Operation	Mode	Channel	Frequency (MHz)	Data Page
1.	Transmitting	802.11b	11	2462	P13-14

NOTE 1 – Emission Level = Read Level + AMN Factor + Aux Factor + Cable Loss

Margin = Limits - Emission Level

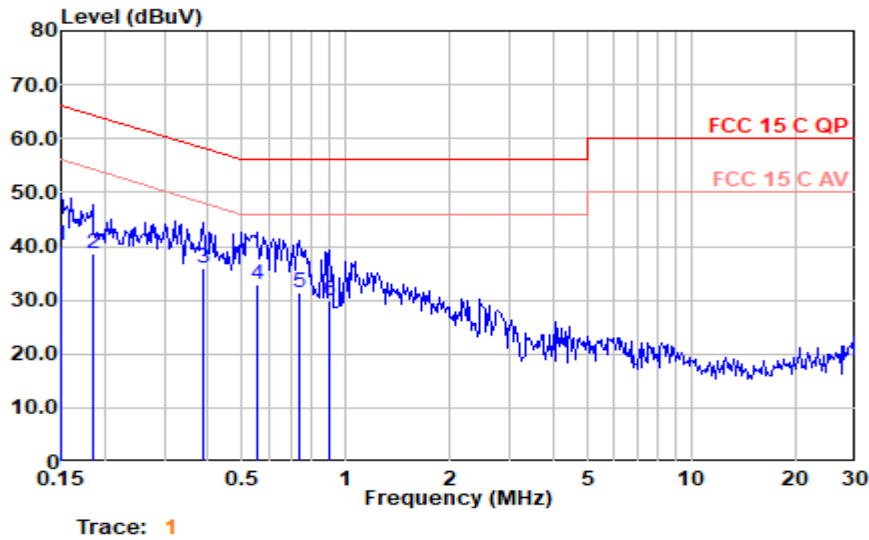
NOTE 2 – “QP” means “Quasi-Peak” values

NOTE 3 – The emission levels which not reported are too low against the official limit.

Worst case emission

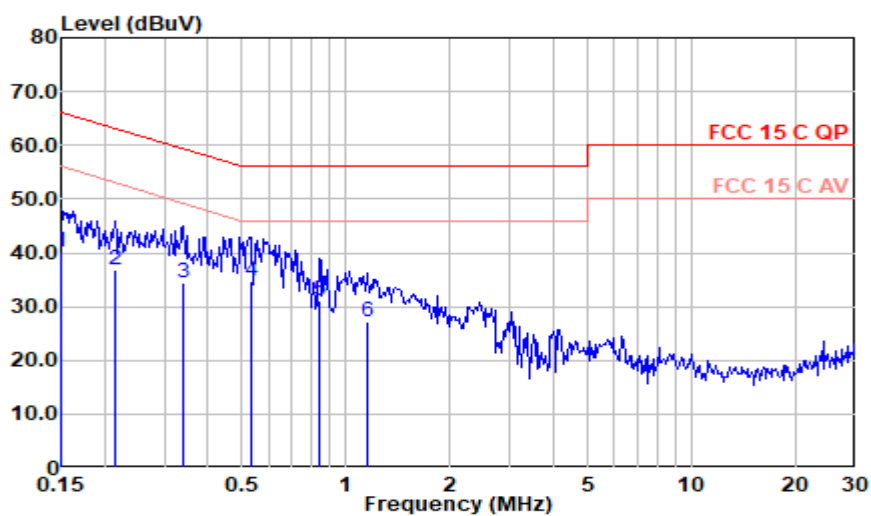
Test Date:	2024.05.30	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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Mode: 802.11b CH2462MHz



Polarization at Line

Frequency (MHz)	Meter Reading dB (μV)	AMN Factor (dB)	Aux Factor (dB)	Cable Loss (dB)	Emission Level dB (μV)	Limits dB (μV)	Margin (dB)	Remark
0.150	30.43	0.10	9.49	0.10	40.12	66.00	25.88	QP
0.185	28.96	0.10	9.49	0.10	38.65	64.27	25.62	QP
0.386	26.18	0.10	9.49	0.10	35.87	58.16	22.29	QP
0.552	23.12	0.20	9.49	0.11	32.92	56.00	23.08	QP
0.736	21.67	0.20	9.49	0.13	31.48	56.00	24.52	QP
0.898	19.95	0.20	9.49	0.14	29.78	56.00	26.22	QP

Mode: 802.11b CH2462MHz**Polarization at Neutral**

Frequency (MHz)	Meter Reading dB (μV)	AMN Factor (dB)	Aux Factor (dB)	Cable Loss (dB)	Emission Level dB (μV)	Limits dB (μV)	Margin (dB)	Remark
0.150	30.34	0.10	9.49	0.10	40.03	66.00	25.97	QP
0.215	27.10	0.10	9.49	0.10	36.79	63.03	26.24	QP
0.339	24.65	0.10	9.49	0.10	34.34	59.23	24.89	QP
0.530	25.05	0.10	9.49	0.11	34.75	56.00	21.25	QP
0.837	21.38	0.10	9.49	0.13	31.10	56.00	24.90	QP
1.151	17.32	0.20	9.49	0.14	27.15	56.00	28.85	QP

4 RADIATED EMISSION TEST

4.1 Test Equipment

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

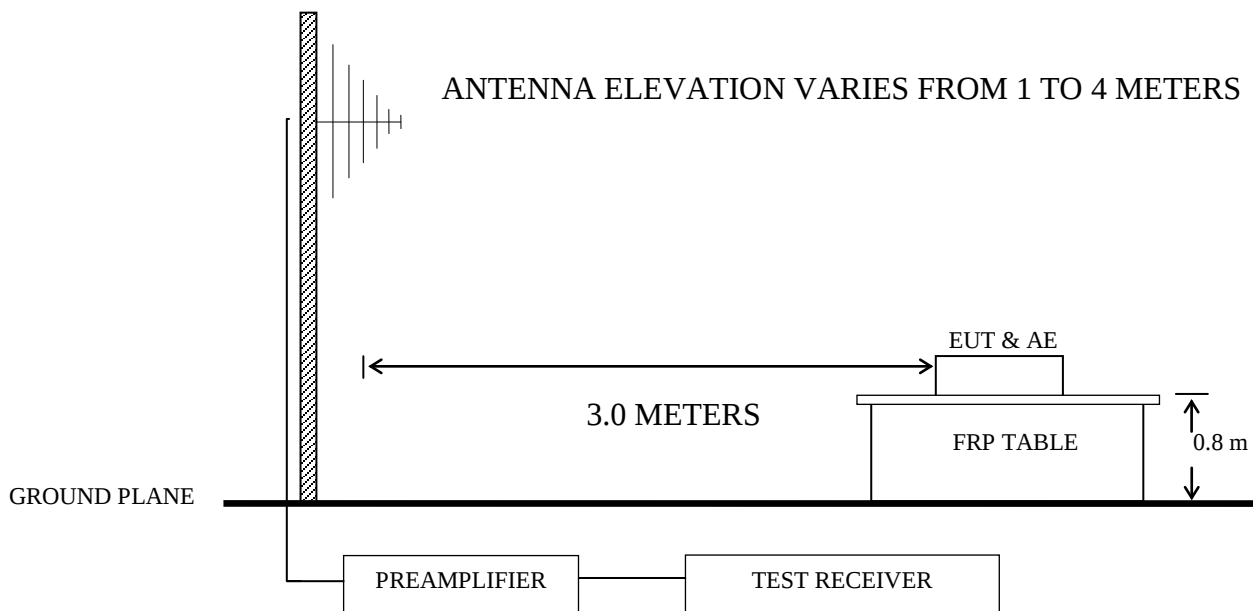
Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Preamplifier	Agilent	8447D	2944A10548	2024.02.22	1 Year
2.	Preamplifier	HP	8449B	3008A00864	2024.02.22	1 Year
3.	EXA Signal Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
4.	Test Receiver	R&S	ESCI	101303	2024.02.22	1 Year
5.	Bilog Antenna+ 6dB Attenuator	Schwarzbeck	VULB 9168+ EMCI-N-6-06	708+AT-N0638	2024.03.08	1 Year
6.	Horn Antenna	EMCO	3115	96074878	2023.08.02	1 Year
7.	Horn Antenna	EMCO	3116	00062643	2024.01.30	2 Year
8.	Cavity Band Rejection Filter	Microwave	WT-A3882-R10	WT200312-1-1	2024.02.22	1 Year
9.	Coaxial Switch	Anritsu	MP59B	6200655086	2024.02.22	1 Year
10.	Coaxial Cable	SCHAFFNER	RG 212U-MIL C 17+N1K50-EW06 30-N1K50-15m-1	RE-10m-001/ RE-15m-002	2024.02.22	1 Year
11.	Software	Audix	e3	e3.v9.210616	--	--

4.2 Block Diagram of Test Setup

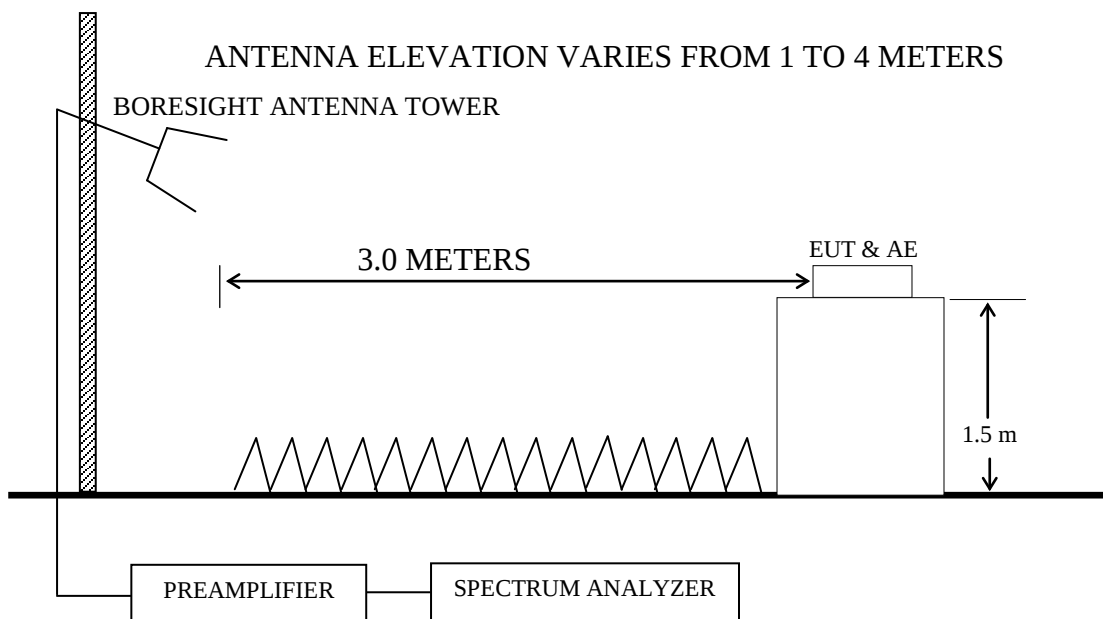
4.2.1 EUT & Peripherals



4.2.2 Below 1GHz



4.2.3 Above 1GHz



4.3 Radiated Emission Limit (§15.209)

Frequency (MHz)	Distance (m)	Field strength limits (μV/m)	
		(μV/m)	(μV/m)
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 below or equal to 1GHz and Average value detector above 1GHz. NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT			

4.4 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.

4.5 Operating Condition of EUT

4.5.1 Setup the EUT as shown in Sec. 4.2.

4.5.2 Turn the EUT on.

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

4.5.4 Use the software as section 2.3 to select the test mode, then disconnect the Test Fixture from EUT, remove the Test Fixture and Notebook PC, then test.

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

4.6 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: 2013 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESCI was set at 120 kHz from 30MHz to 1000MHz.

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

The frequency range from 30 MHz to 25 GHz (Up to 10th harmonics from fundamental frequency) was checked.

All the test results are listed in Sec.4.7.

4.7 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	11	2462 MHz	P20-21

Frequency range: above 1GHz

No.	Operation	Mode	Channel	Frequency	Data Page
1.	Transmitting	802.11b	1	2412 MHz	P22-23
2.			6	2437 MHz	P24-25
3.			11	2462 MHz	P26-27
4.		802.11g	11	2462 MHz	P28-29
5.		802.11n20	11	2462 MHz	P30-31
6.		802.11n40	9	2452 MHz	P32-33

Band-Edge and Restricted bands:

No.	Operation	Mode	Channel	Frequency	Data Page
1.	Transmitting	802.11b	1	2412 MHz	P34-35
2.			11	2462 MHz	P36-37
3.		802.11g	1	2412 MHz	P38-39
4.			11	2462 MHz	P40-41
5.		802.11n20	1	2412 MHz	P42-43
6.			11	2462 MHz	P44-45
7.		802.11n40	3	2422 MHz	P46-47
8.			9	2452 MHz	P48-49

NOTE 1 – Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin = Limits - Emission Level.

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 Standing direction, for this direction was the maximum emission direction during the test. The data of Side & 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.

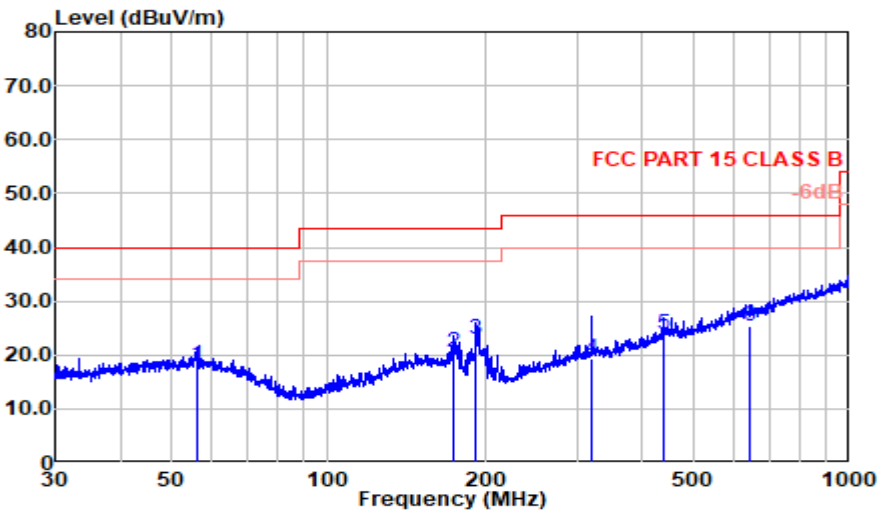
For above 1GHz test, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

Radiated emission < 1GHz

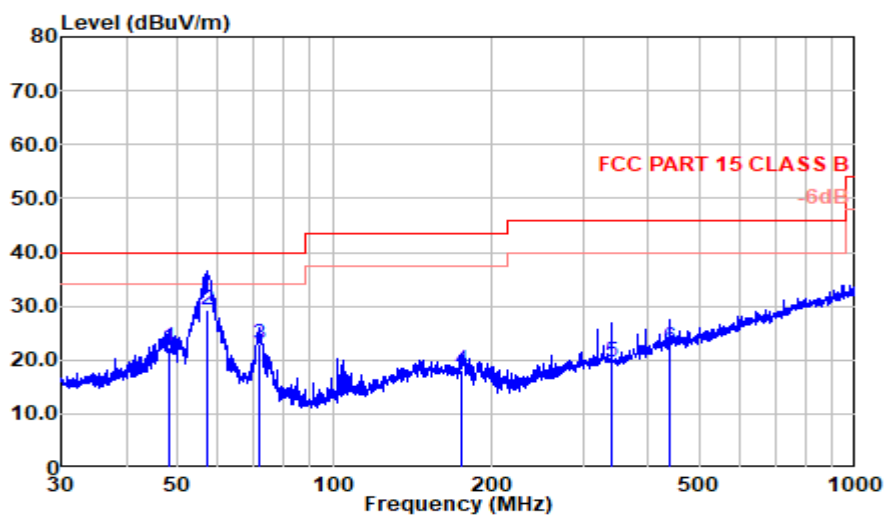
Test Date:	2024.05.30	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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Mode: 802.11b CH2462MHz



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
56.001	27.91	19.40	0.82	29.88	18.25	40.00	21.75	QP
174.730	30.19	18.15	1.47	29.32	20.51	43.50	22.99	QP
191.745	34.36	16.33	1.56	29.30	22.95	43.50	20.55	QP
319.937	26.22	19.90	1.96	28.78	19.29	46.00	26.71	QP
440.196	28.17	22.61	2.31	29.26	23.83	46.00	22.17	QP
641.735	25.32	26.00	2.86	28.83	25.34	46.00	20.66	QP

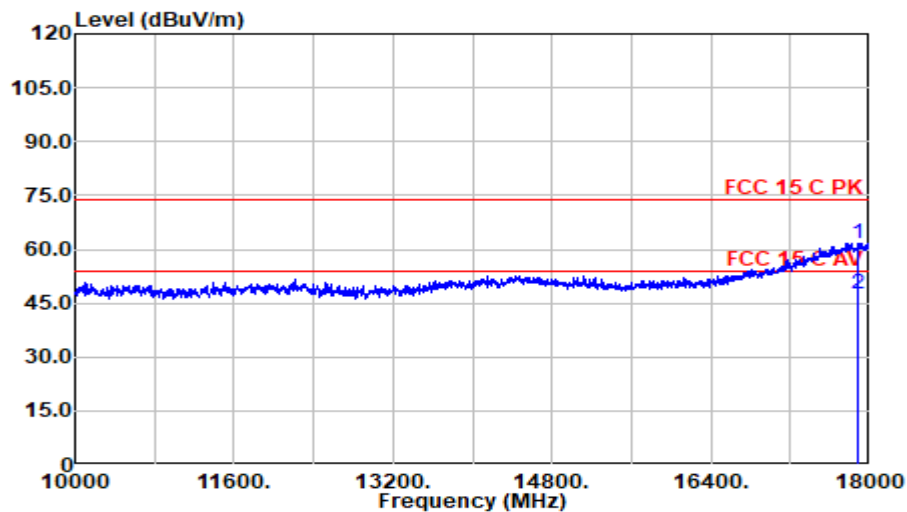
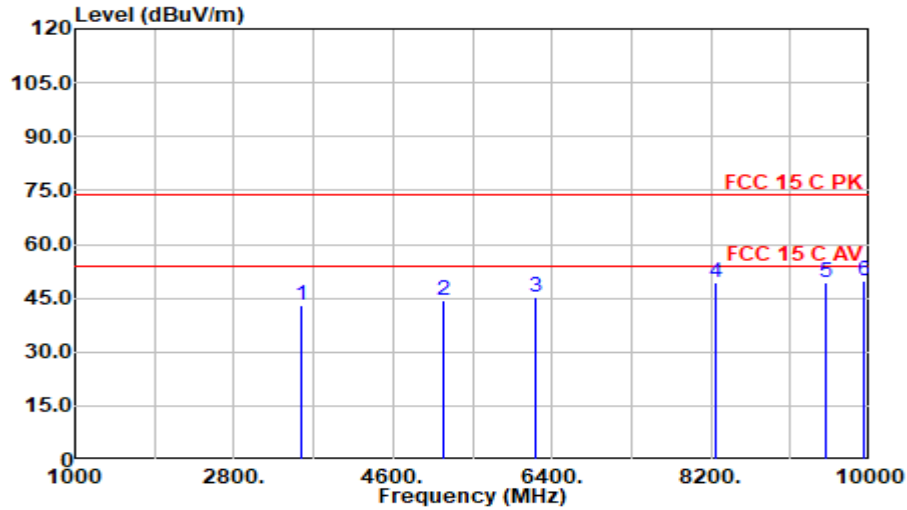
Mode: 802.11b CH2462MHz

Polarization at Vertical

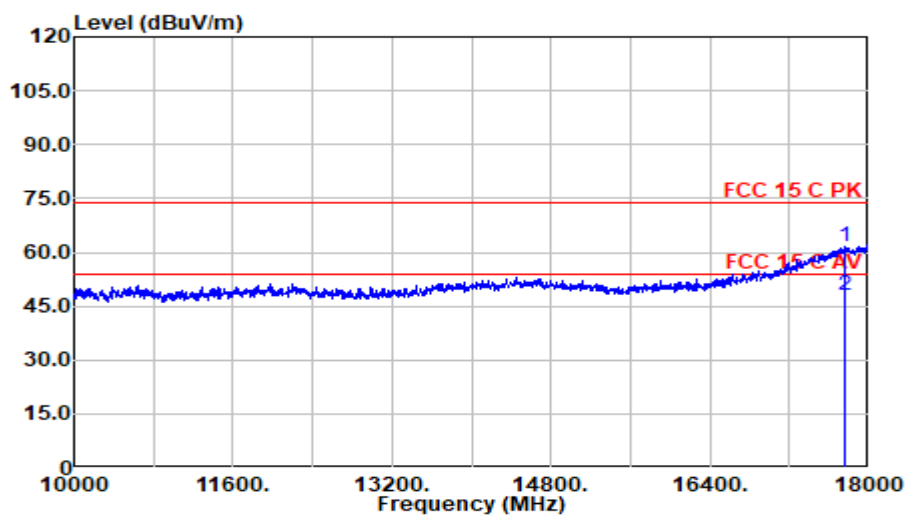
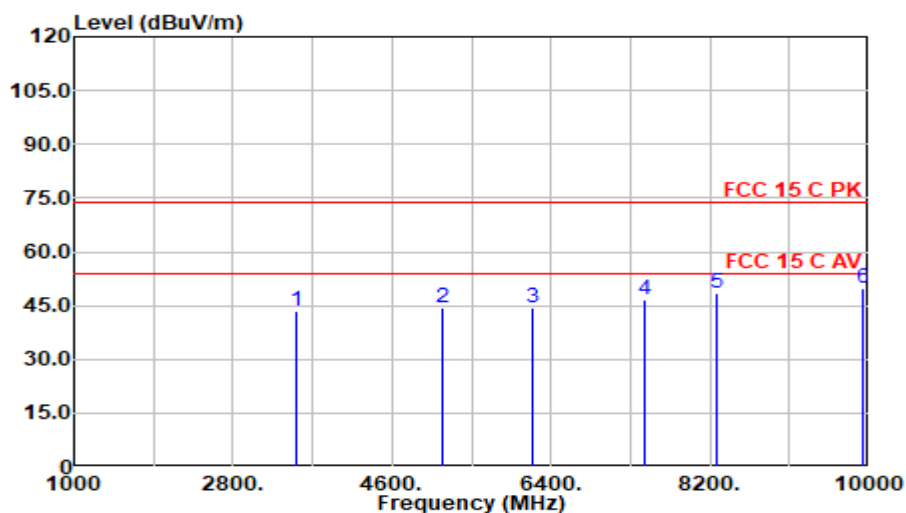
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
48.163	31.93	19.50	0.76	29.90	22.29	40.00	17.71	QP
57.091	39.15	19.29	0.82	29.87	29.39	40.00	10.61	QP
72.211	34.99	16.94	0.92	29.82	23.02	40.00	16.98	QP
175.960	28.08	18.00	1.48	29.31	18.25	43.50	25.25	QP
339.589	26.51	20.11	1.99	28.86	19.74	46.00	26.26	QP
440.196	26.74	22.61	2.31	29.26	22.40	46.00	23.60	QP

Radiated Emission > 1GHz

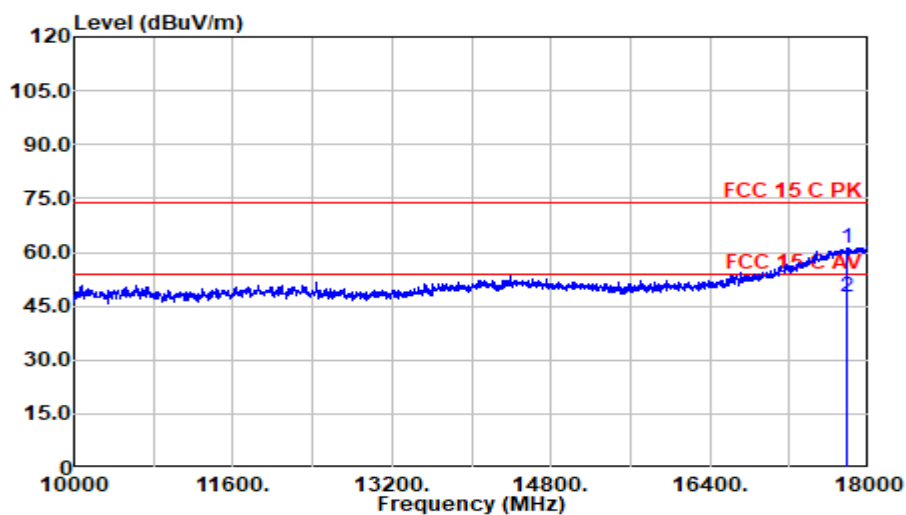
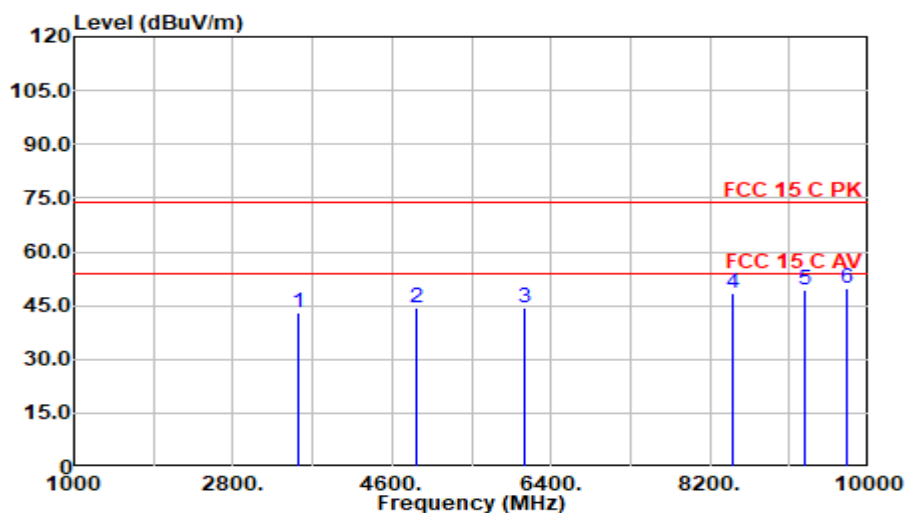
Test Date:	2024.05.28-06.02	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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Mode: 802.11b CH2412**Polarization at Horizontal**

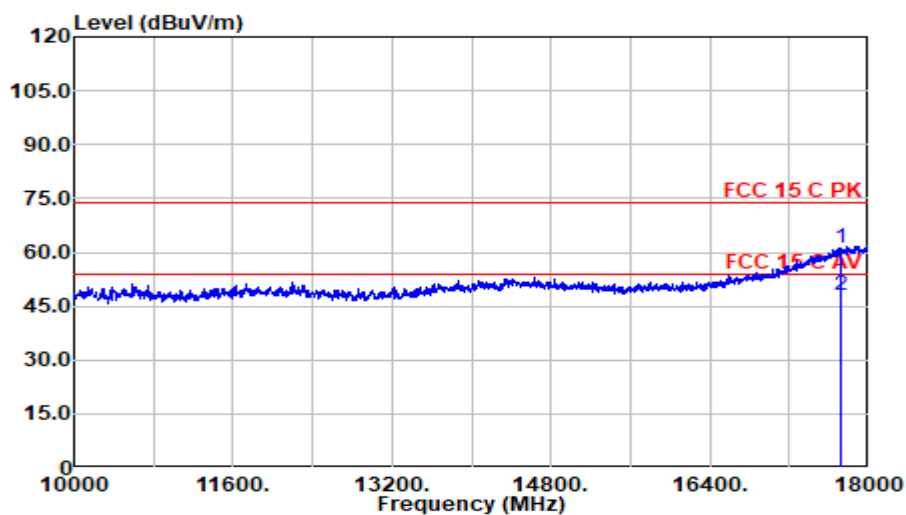
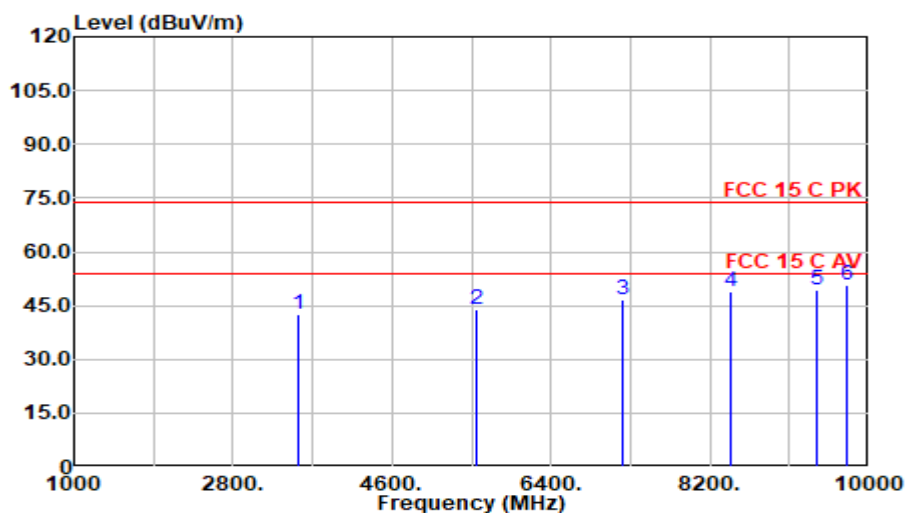
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
3569.500	41.24	31.50	6.40	36.06	43.08	74.00	30.92	Peak
5180.500	37.80	33.94	7.93	35.30	44.37	74.00	29.63	Peak
6211.000	37.53	34.62	8.61	35.34	45.41	74.00	28.59	Peak
8254.000	36.72	37.81	10.39	35.60	49.32	74.00	24.68	Peak
9491.500	35.55	38.37	11.04	35.45	49.51	74.00	24.49	Peak
9941.500	35.25	38.40	11.40	35.32	49.74	74.00	24.26	Peak
17884.000	31.54	47.18	16.12	33.03	61.81	74.00	12.19	Peak
17884.000	17.44	47.18	16.12	33.03	47.71	54.00	6.29	Average

Mode: 802.11b CH2412**Polarization at Vertical**

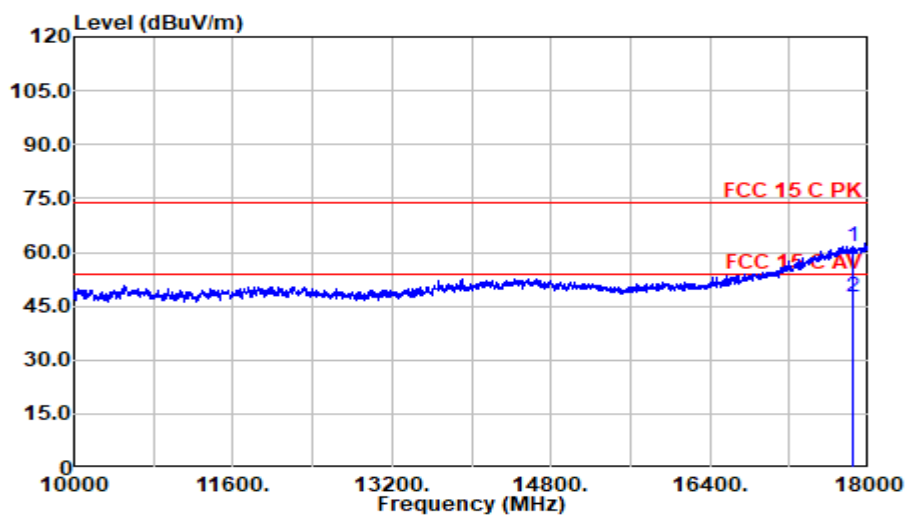
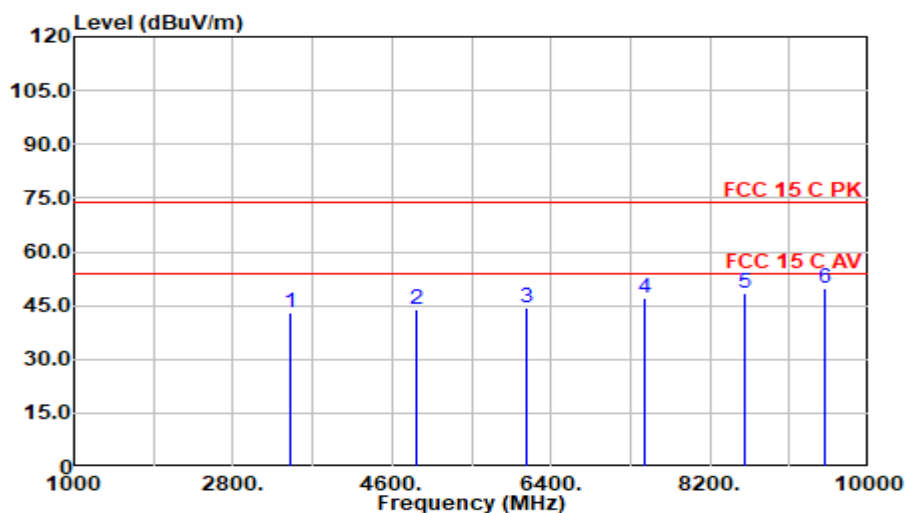
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
3520.000	41.52	31.56	6.36	36.08	43.36	74.00	30.64	Peak
5171.500	37.89	33.96	7.92	35.30	44.47	74.00	29.53	Peak
6188.500	36.71	34.55	8.59	35.34	44.51	74.00	29.49	Peak
7453.000	35.73	36.89	9.75	35.55	46.82	74.00	27.18	Peak
8272.000	35.89	37.84	10.40	35.60	48.53	74.00	25.47	Peak
9928.000	35.24	38.40	11.39	35.32	49.71	74.00	24.29	Peak
17749.000	31.68	47.00	15.92	33.07	61.53	74.00	12.47	Peak
17749.000	18.37	47.00	15.92	33.07	48.21	54.00	5.79	Average

Mode: 802.11b CH2437**Polarization at Horizontal**

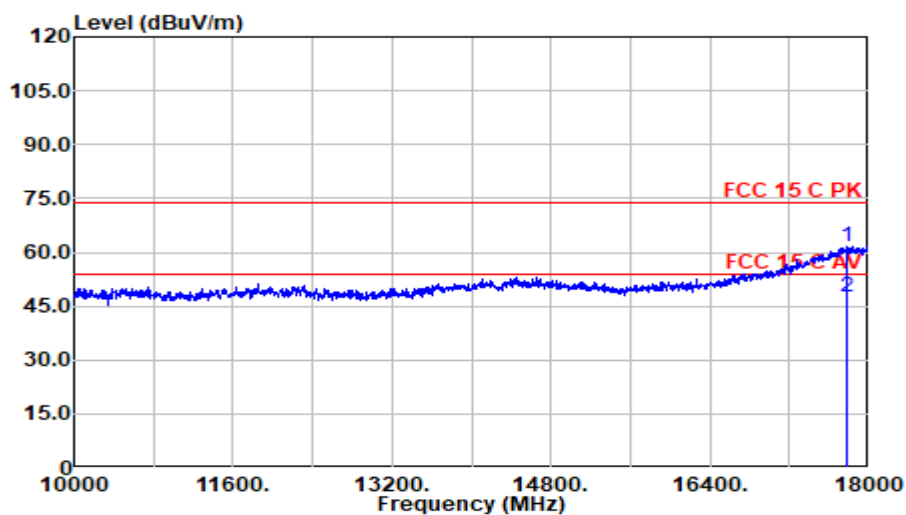
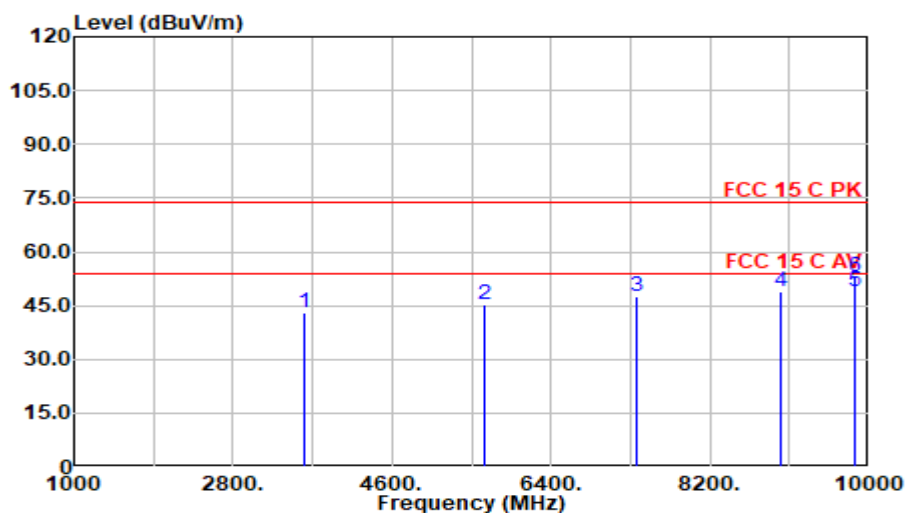
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
3528.750	41.09	31.54	6.37	36.07	42.92	74.00	31.08	Peak
4880.250	38.47	33.38	7.69	35.37	44.18	74.00	29.82	Peak
6091.500	36.68	34.48	8.50	35.32	44.34	74.00	29.66	Peak
8467.250	35.54	38.20	10.46	35.60	48.60	74.00	25.40	Peak
9266.250	35.71	38.17	10.86	35.52	49.22	74.00	24.78	Peak
9746.500	36.06	38.10	11.25	35.37	50.03	74.00	23.97	Peak
17779.000	30.97	47.06	15.97	33.06	60.93	74.00	13.07	Peak
17779.000	17.80	47.06	15.97	33.06	47.76	54.00	6.24	Average

Mode: 802.11b CH2437**Polarization at Vertical**

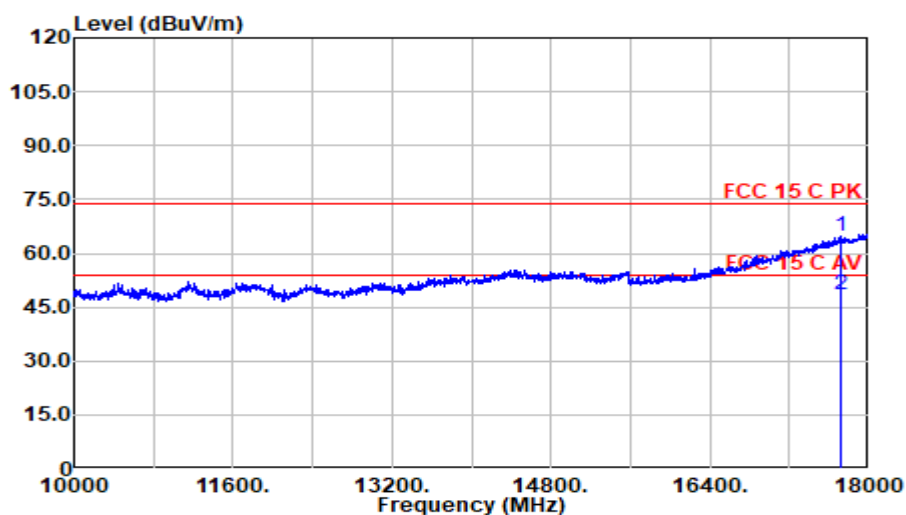
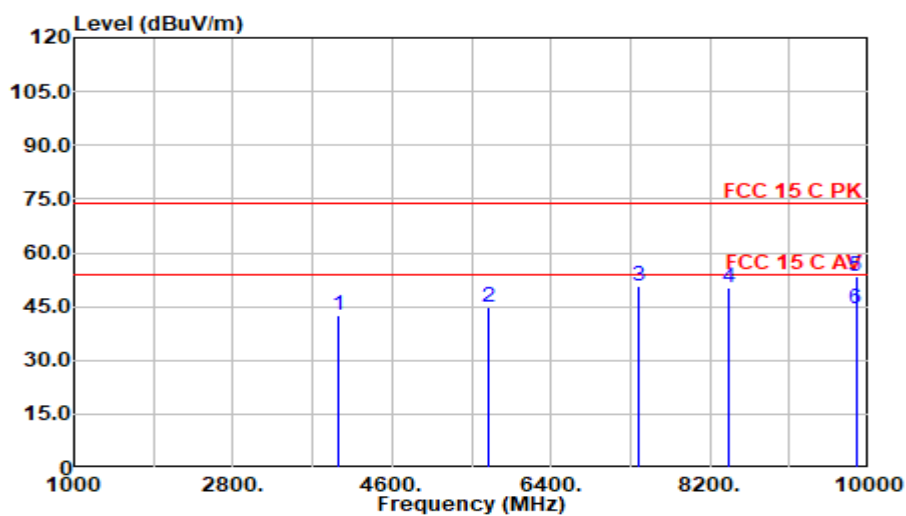
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
3550.000	40.95	31.50	6.38	36.07	42.77	74.00	31.23	Peak
5551.750	37.19	34.10	8.16	35.30	44.14	74.00	29.86	Peak
7222.000	36.54	36.32	9.50	35.52	46.84	74.00	27.16	Peak
8437.500	35.82	38.18	10.45	35.60	48.85	74.00	25.15	Peak
9406.500	35.50	38.20	10.97	35.47	49.20	74.00	24.80	Peak
9746.500	36.58	38.10	11.25	35.37	50.55	74.00	23.45	Peak
17711.000	31.56	46.92	15.87	33.08	61.27	74.00	12.73	Peak
17711.000	18.26	46.92	15.87	33.08	47.96	54.00	6.04	Average

Mode: 802.11b CH2462**Polarization at Horizontal**

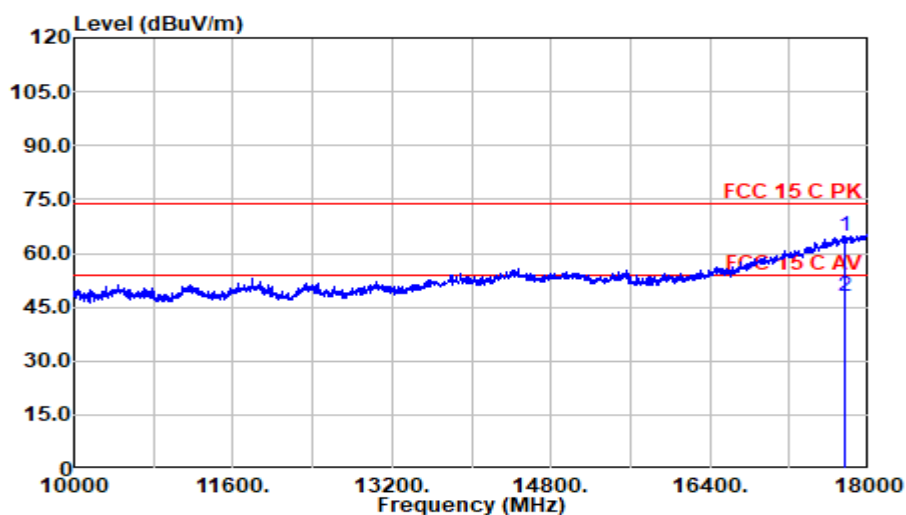
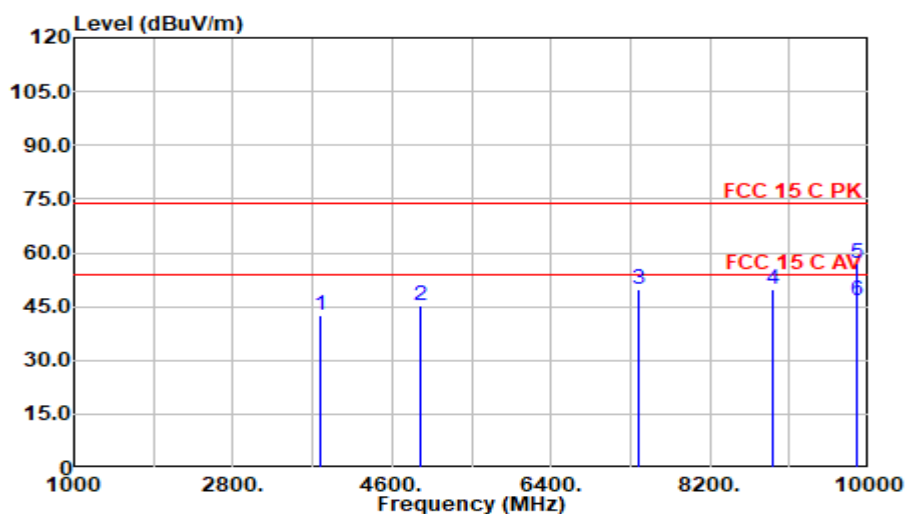
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
3456.500	41.36	31.51	6.30	36.10	43.07	74.00	30.93	Peak
4884.500	38.31	33.41	7.70	35.36	44.05	74.00	29.95	Peak
6134.000	36.60	34.43	8.54	35.33	44.24	74.00	29.76	Peak
7455.750	35.95	36.89	9.75	35.55	47.04	74.00	26.96	Peak
8594.750	35.60	38.11	10.50	35.60	48.61	74.00	25.39	Peak
9495.750	35.72	38.38	11.05	35.45	49.71	74.00	24.29	Peak
17830.000	31.65	47.13	16.04	33.05	61.78	74.00	12.22	Peak
17830.000	17.47	47.13	16.04	33.05	47.59	54.00	6.41	Average

Mode: 802.11b CH2462**Polarization at Vertical**

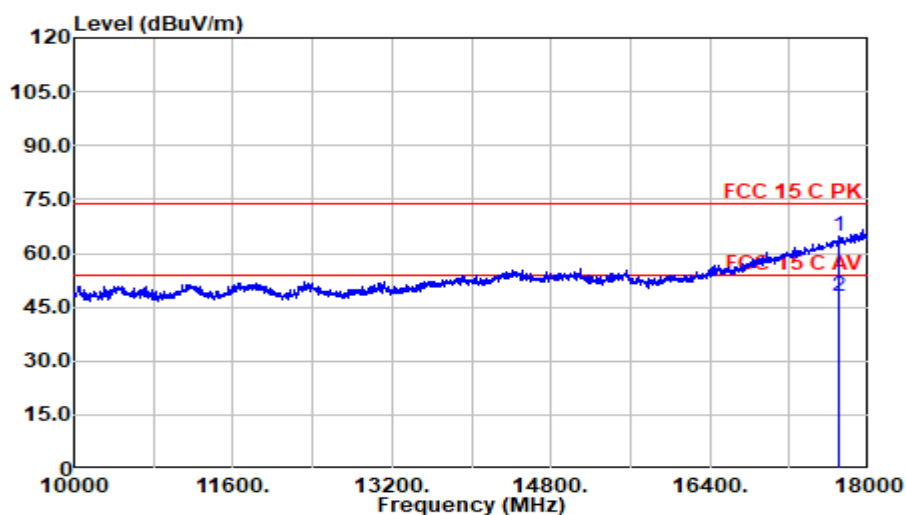
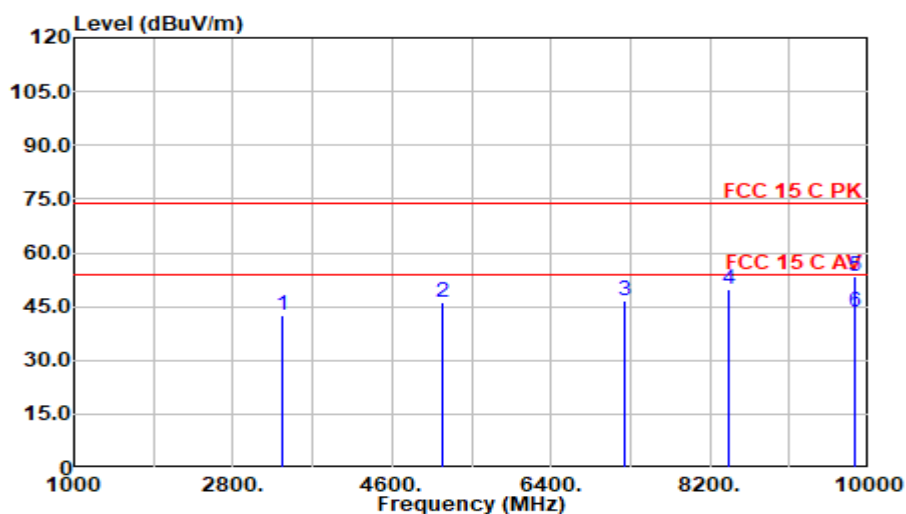
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
3596.750	41.06	31.50	6.42	36.05	42.94	74.00	31.06	Peak
5645.250	38.29	33.91	8.22	35.30	45.12	74.00	28.88	Peak
7362.250	36.65	36.90	9.65	35.54	47.66	74.00	26.34	Peak
9011.250	35.61	38.22	10.64	35.60	48.88	74.00	25.12	Peak
9847.959	34.80	38.20	11.33	35.34	48.98	54.00	5.02	Average
9848.500	38.64	38.20	11.33	35.34	52.83	74.00	21.17	Peak
17779.000	31.43	47.06	15.97	33.06	61.39	74.00	12.61	Peak
17779.000	17.74	47.06	15.97	33.06	47.70	54.00	6.30	Average

Mode: 802.11g CH2462**Polarization at Horizontal**

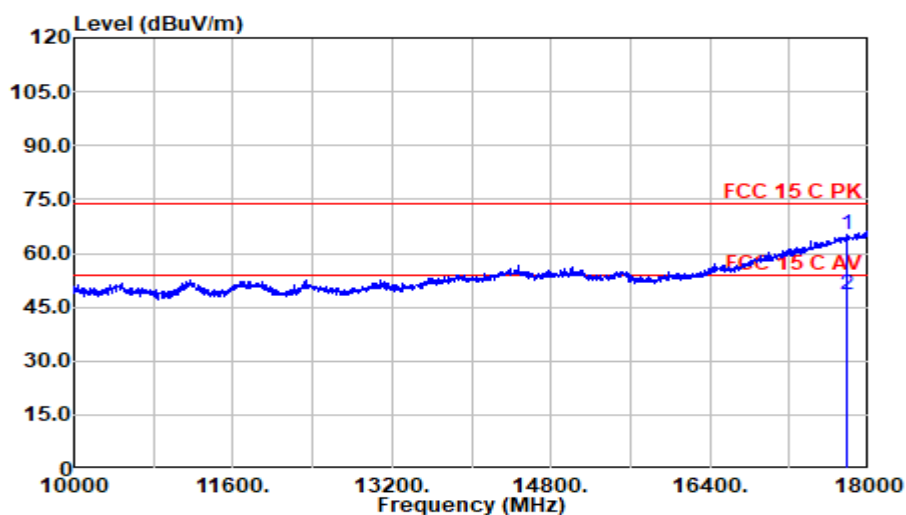
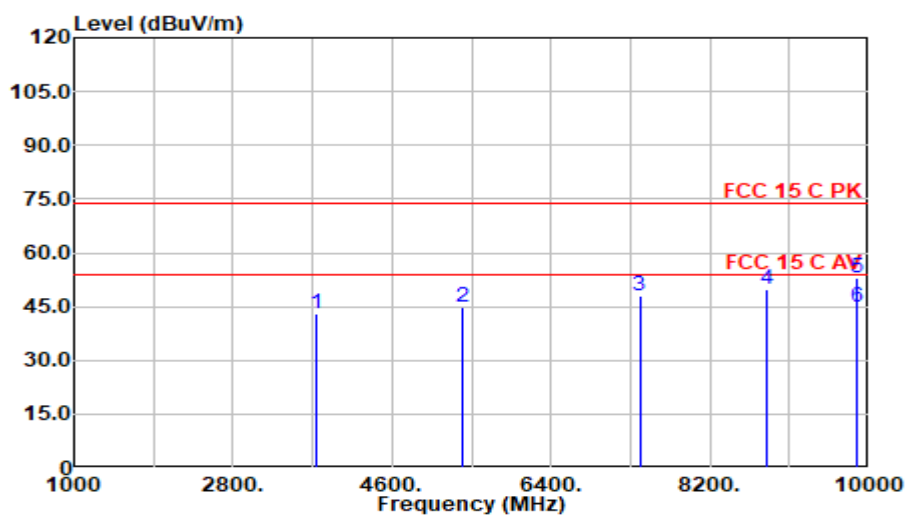
Frequency (MHz)	Meter Reading dB (μ V)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μ V/m)	Limits dB (μ V/m)	Margin (dB)	Remark
3992.000	39.08	32.72	6.74	35.90	42.63	74.00	31.37	Peak
5683.500	37.86	33.83	8.24	35.30	44.63	74.00	29.37	Peak
7392.000	39.66	36.90	9.68	35.54	50.70	74.00	23.30	Peak
8420.500	37.31	38.14	10.45	35.60	50.30	74.00	23.70	Peak
9852.750	39.43	38.21	11.33	35.34	53.64	74.00	20.36	Peak
9852.750	30.28	38.21	11.33	35.34	44.48	54.00	9.52	Average
17723.750	34.99	46.95	15.88	33.08	64.74	74.00	9.26	Peak
17723.750	18.50	46.95	15.88	33.08	48.25	54.00	5.75	Average

Mode: 802.11g CH2462**Polarization at Vertical**

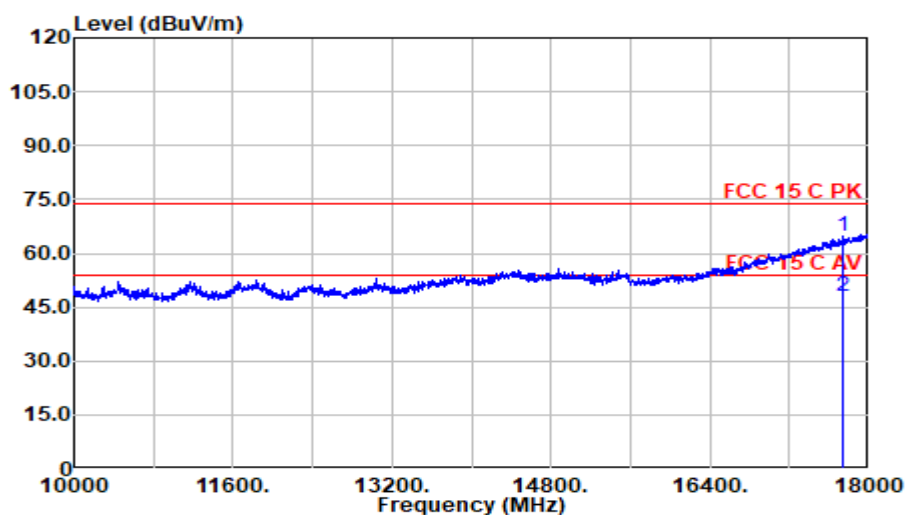
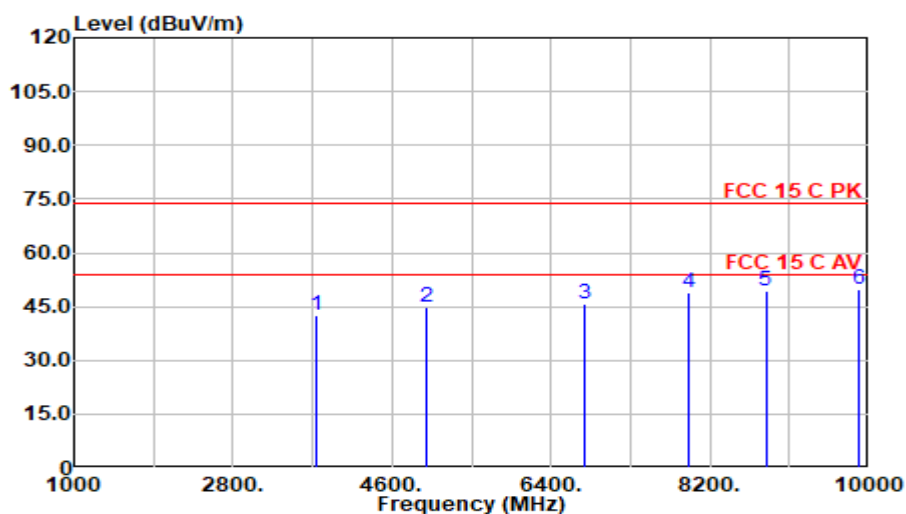
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
3783.750	39.74	32.40	6.58	35.98	42.75	74.00	31.25	Peak
4922.750	39.45	33.36	7.74	35.34	45.21	74.00	28.79	Peak
7383.500	38.75	36.90	9.67	35.54	49.78	74.00	24.22	Peak
8905.000	36.60	38.09	10.60	35.60	49.69	74.00	24.31	Peak
9857.000	42.84	38.23	11.34	35.34	57.07	74.00	16.93	Peak
9857.000	32.38	38.23	11.34	35.34	46.61	54.00	7.39	Average
17766.250	34.92	47.03	15.95	33.07	64.83	74.00	9.17	Peak
17766.250	18.05	47.03	15.95	33.07	47.96	54.00	6.04	Average

Mode: 802.11n20 CH2462**Polarization at Horizontal**

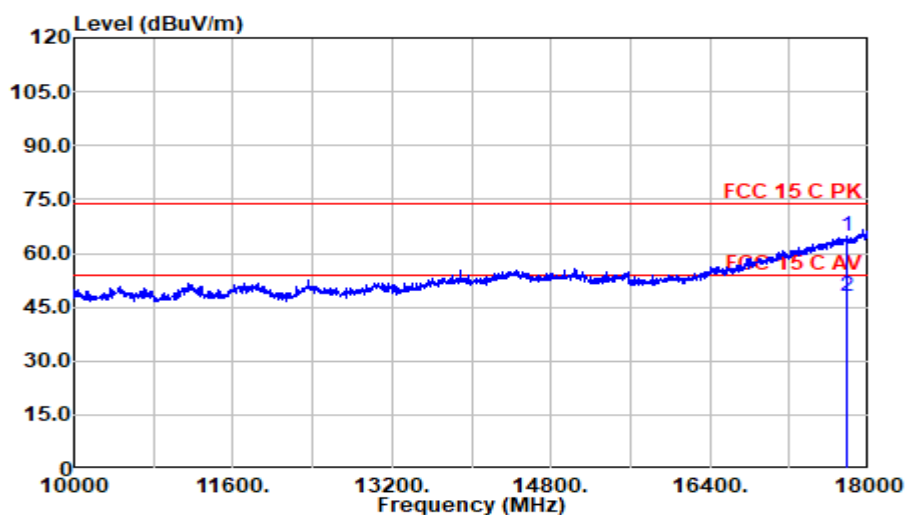
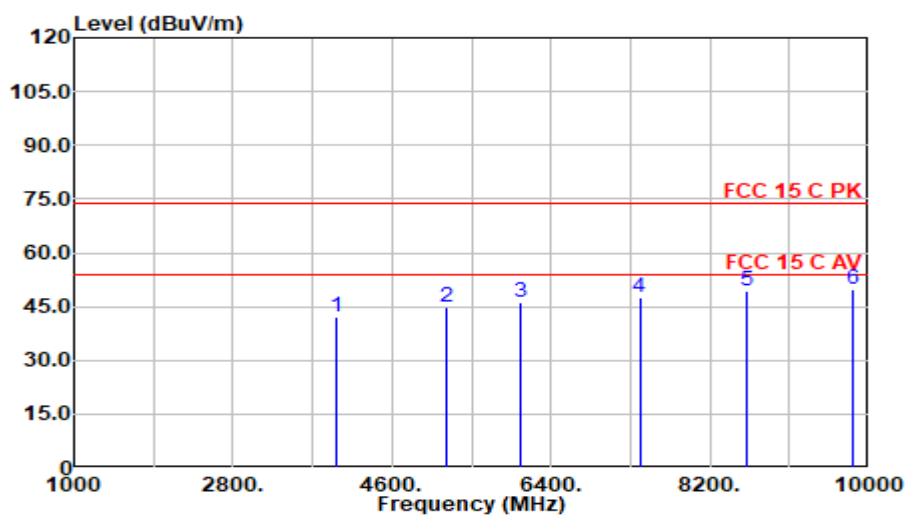
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
3358.750	41.19	31.40	6.22	36.14	42.66	74.00	31.34	Peak
5177.750	39.64	33.94	7.93	35.30	46.21	74.00	27.79	Peak
7226.250	36.51	36.36	9.50	35.52	46.86	74.00	27.14	Peak
8420.500	36.84	38.14	10.45	35.60	49.83	74.00	24.17	Peak
9844.250	39.34	38.19	11.33	35.34	53.52	74.00	20.48	Peak
9844.250	29.43	38.19	11.33	35.34	43.61	54.00	10.39	Average
17694.000	34.93	46.86	15.84	33.09	64.55	74.00	9.45	Peak
17694.000	18.53	46.86	15.84	33.09	48.14	54.00	5.86	Average

Mode: 802.11n20 CH2462**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
3749.750	40.19	32.20	6.55	35.99	42.95	74.00	31.05	Peak
5403.000	38.08	34.01	8.07	35.30	44.87	74.00	29.13	Peak
7404.750	37.16	36.90	9.70	35.54	48.22	74.00	25.78	Peak
8849.750	37.14	37.90	10.58	35.60	50.03	74.00	23.97	Peak
9861.250	38.74	38.25	11.34	35.34	52.99	74.00	21.01	Peak
9861.250	30.47	38.25	11.34	35.34	44.72	54.00	9.28	Average
17787.500	35.12	47.08	15.98	33.06	65.11	74.00	8.89	Peak
17787.500	18.41	47.08	15.98	33.06	48.40	54.00	5.60	Average

Mode: 802.11n40 CH2452**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
3737.000	39.71	32.12	6.54	35.99	42.38	74.00	31.62	Peak
4990.750	39.19	33.36	7.80	35.30	45.05	74.00	28.95	Peak
6788.500	36.93	35.32	9.08	35.46	45.87	74.00	28.13	Peak
7961.500	36.87	37.28	10.27	35.60	48.82	74.00	25.18	Peak
8832.750	36.64	37.90	10.58	35.60	49.52	74.00	24.48	Peak
9891.000	35.34	38.36	11.36	35.33	49.74	74.00	24.26	Peak
17732.250	34.80	46.96	15.90	33.08	64.59	74.00	9.41	Peak
17732.250	18.28	46.96	15.90	33.08	48.06	54.00	5.94	Average

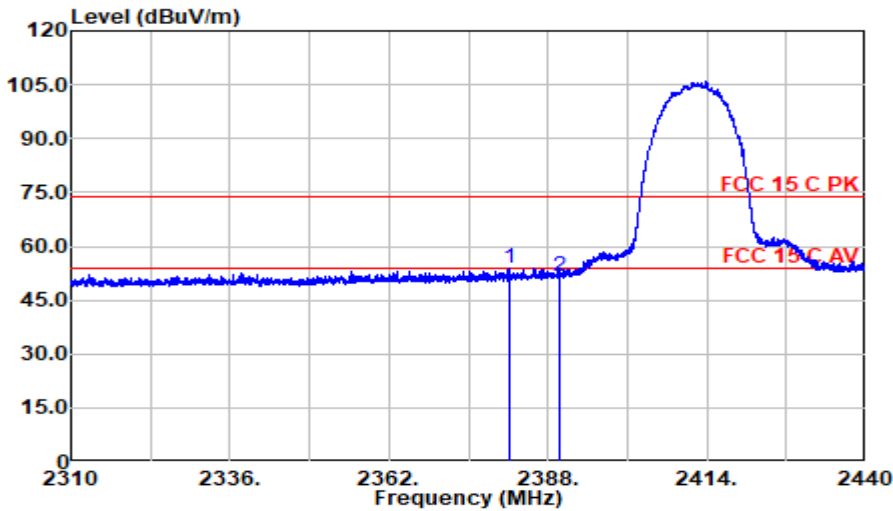
Mode: 802.11n40 CH2452**Polarization at Vertical**

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
3966.500	38.70	32.77	6.72	35.91	42.28	74.00	31.72	Peak
5224.500	38.49	33.85	7.96	35.30	44.99	74.00	29.01	Peak
6053.250	38.79	34.41	8.47	35.31	46.36	74.00	27.64	Peak
7404.750	36.40	36.90	9.70	35.54	47.46	74.00	26.54	Peak
8620.250	36.25	38.10	10.51	35.60	49.26	74.00	24.74	Peak
9823.000	35.57	38.15	11.31	35.35	49.68	74.00	24.32	Peak
17783.250	34.82	47.07	15.97	33.06	64.80	74.00	9.20	Peak
17783.250	17.88	47.07	15.97	33.06	47.86	54.00	6.14	Average

Band-Edge and Restricted bands:

Test Date:	2024.05.28-06.02	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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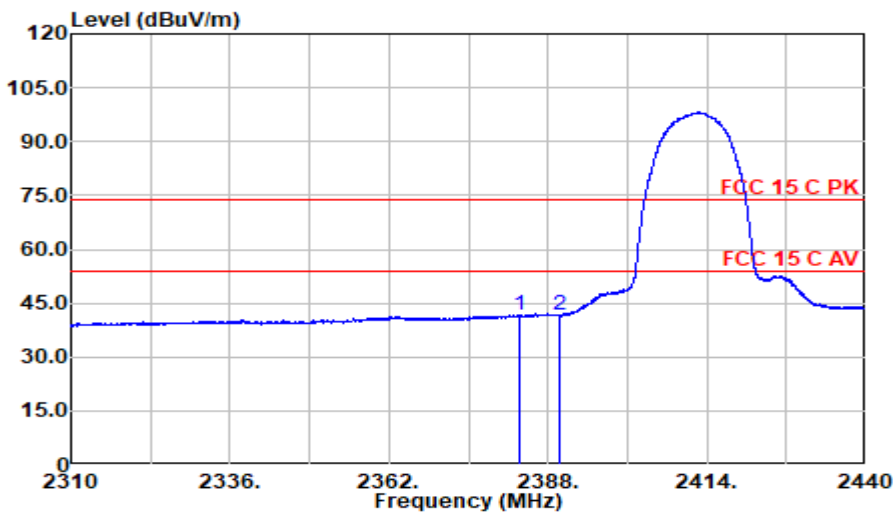
Mode: 802.11b CH2412MHz



Polarization at Horizontal

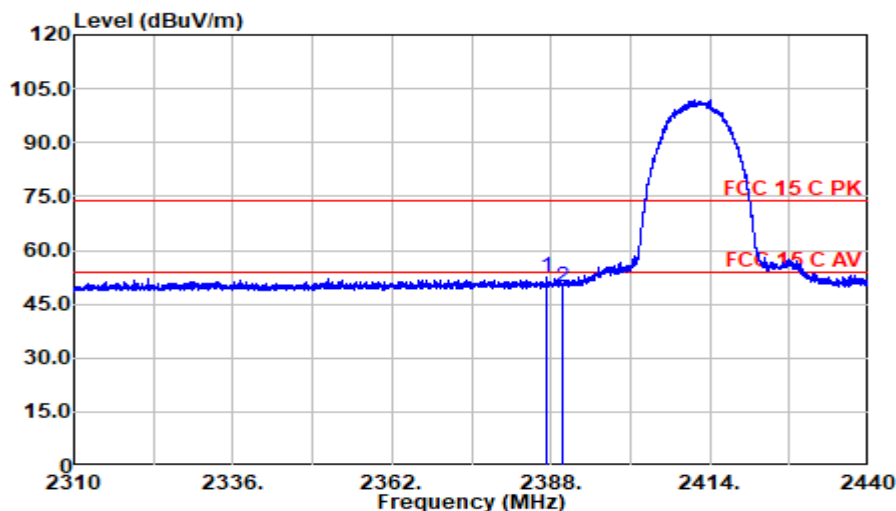
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2381.565	56.97	28.53	5.38	36.87	54.01	74.00	19.99	Peak
2390.000	54.58	28.56	5.39	36.86	51.66	74.00	22.34	Peak

Mode: 802.11b CH2412MHz



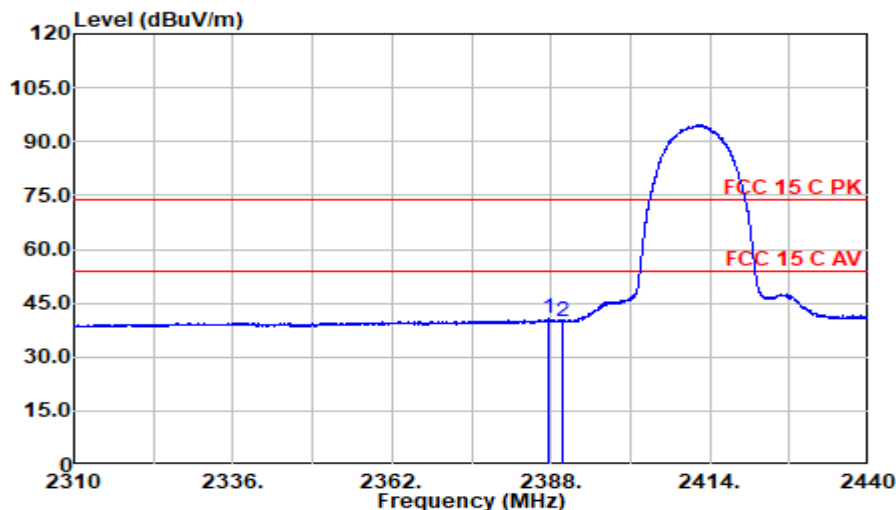
Polarization at Horizontal

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
2383.353	44.68	28.53	5.38	36.87	41.73	54.00	12.27	Average
2390.000	44.55	28.56	5.39	36.86	41.64	54.00	12.36	Average

Mode: 802.11b CH2412MHz

Polarization at Vertical

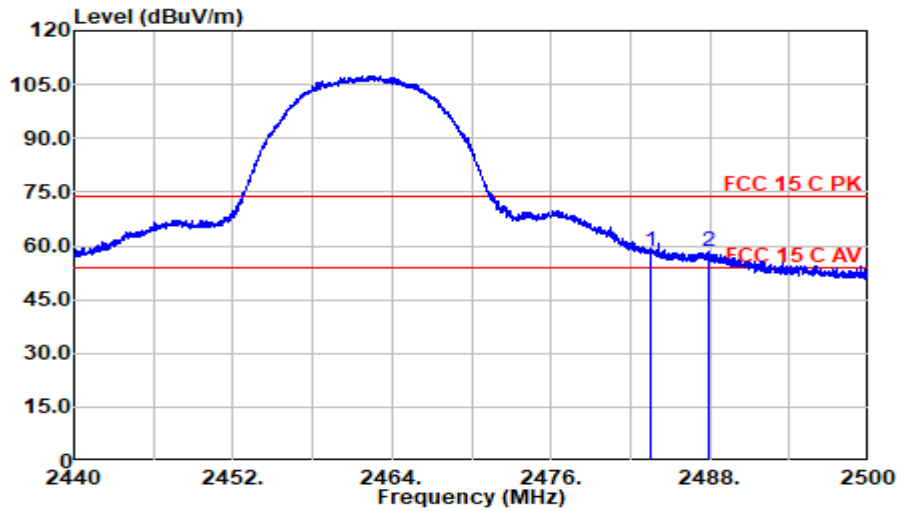
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2387.220	55.26	28.55	5.39	36.86	52.33	74.00	21.67	Peak
2390.000	52.94	28.56	5.39	36.86	50.03	74.00	23.97	Peak

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
2387.610	43.62	28.55	5.39	36.86	40.70	54.00	13.30	Average
2390.000	42.75	28.56	5.39	36.86	39.83	54.00	14.17	Average

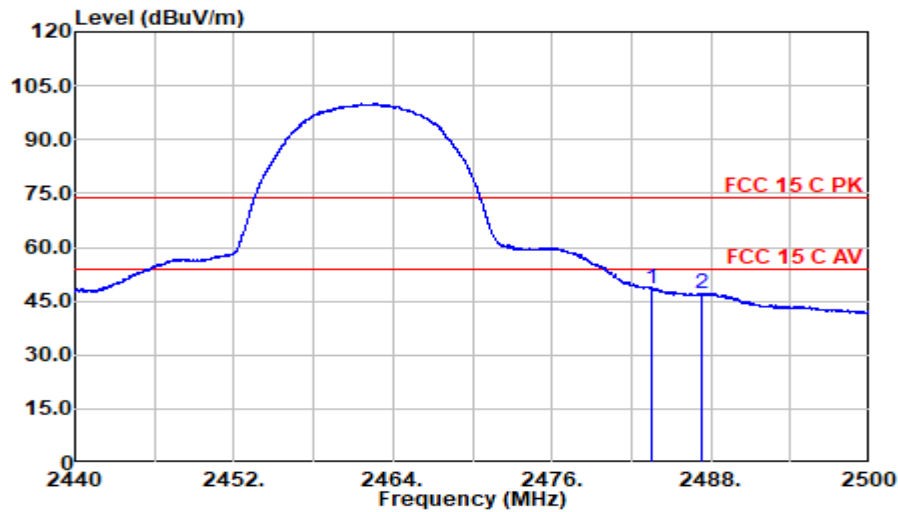
Mode: 802.11b CH2462MHz



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	61.21	28.63	5.47	36.77	58.55	74.00	15.45	Peak
2487.955	61.09	28.65	5.47	36.76	58.45	74.00	15.55	Peak

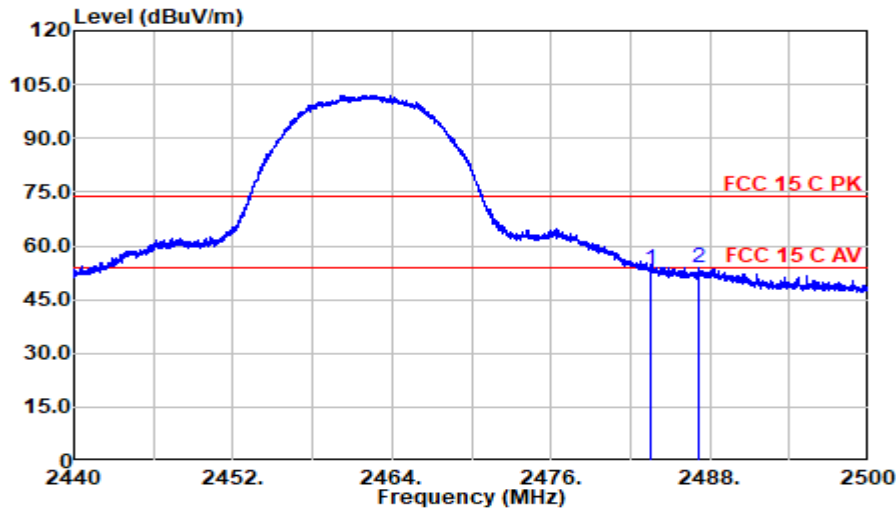
Mode: 802.11b CH2462MHz



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	51.20	28.63	5.47	36.77	48.53	54.00	5.47	Average
2487.340	49.93	28.65	5.47	36.76	47.29	54.00	6.71	Average

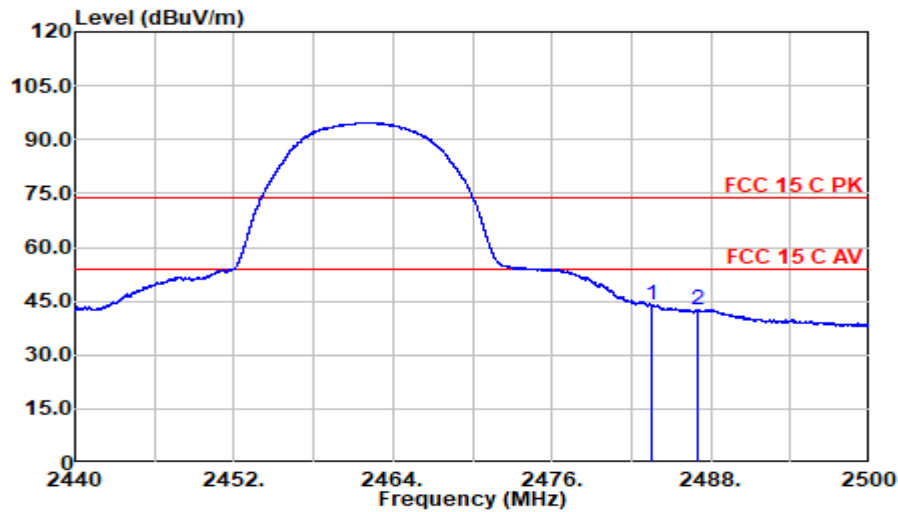
Mode: 802.11b CH2462MHz



Polarization at Vertical

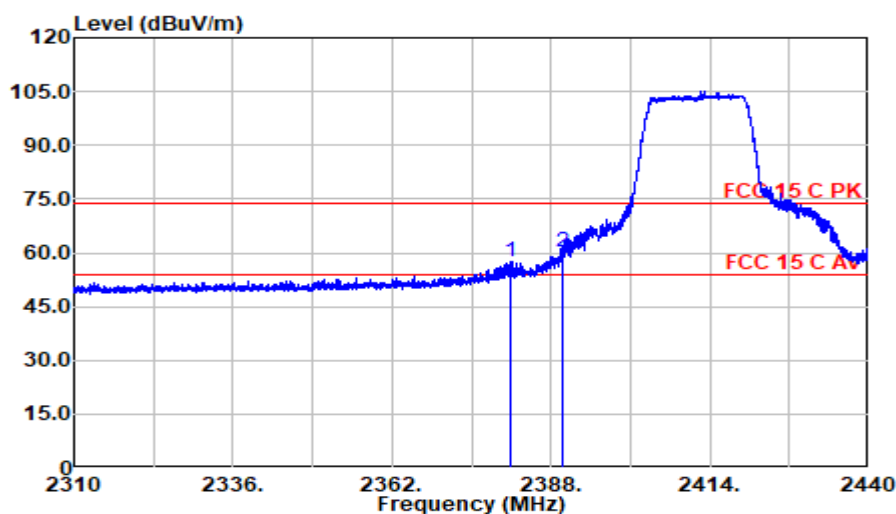
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	56.26	28.63	5.47	36.77	53.60	74.00	20.40	Peak
2487.175	56.70	28.65	5.47	36.76	54.06	74.00	19.94	Peak

Mode: 802.11b CH2462MHz



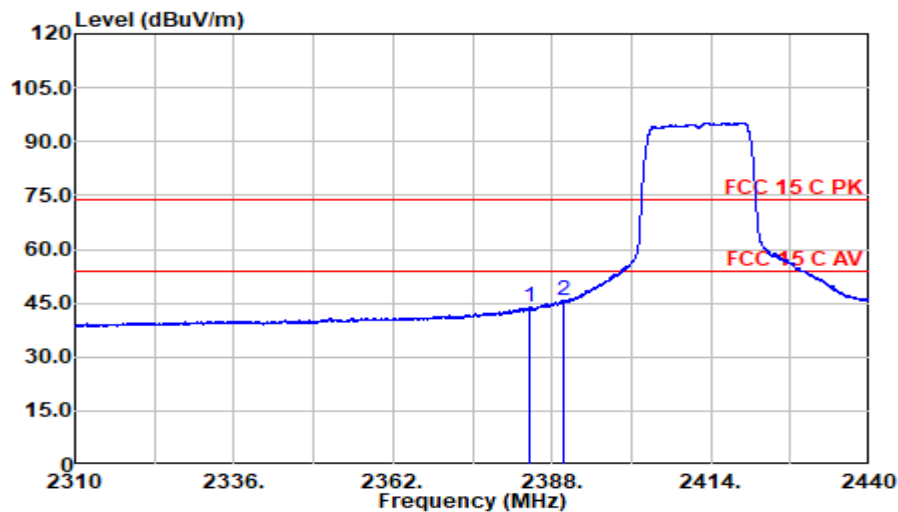
Polarization at Vertical

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	46.59	28.63	5.47	36.77	43.93	54.00	10.07	Average
2486.965	45.27	28.65	5.47	36.76	42.63	54.00	11.37	Average

Mode: 802.11g CH2412MHz

Polarization at Horizontal

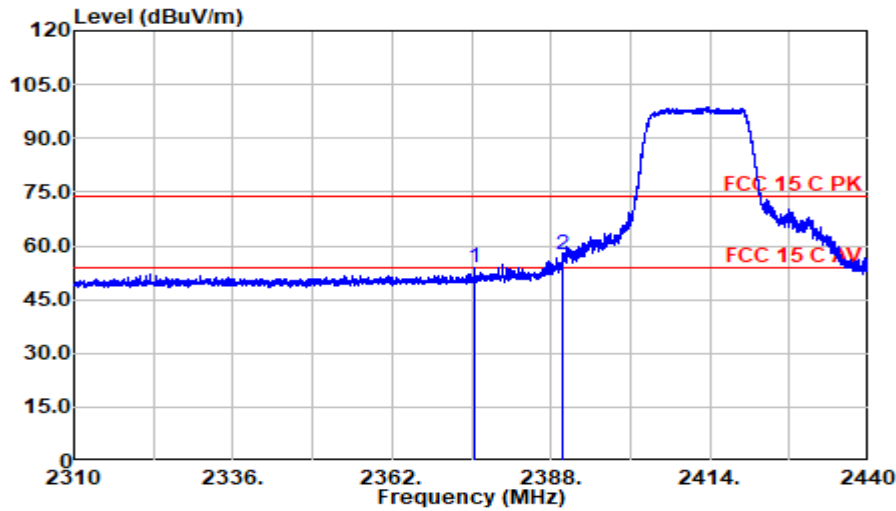
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2381.305	60.40	28.53	5.38	36.87	57.44	74.00	16.56	Peak
2390.000	63.24	28.56	5.39	36.86	60.33	74.00	13.67	Peak

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
2384.230	46.80	28.54	5.38	36.87	43.85	54.00	10.15	Average
2390.000	48.69	28.56	5.39	36.86	45.77	54.00	8.23	Average

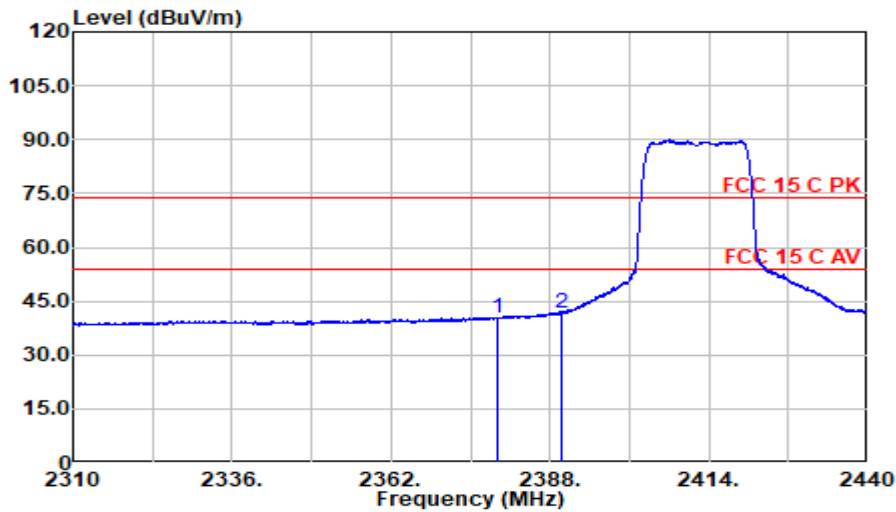
Mode: 802.11g CH2412MHz



Polarization at Vertical

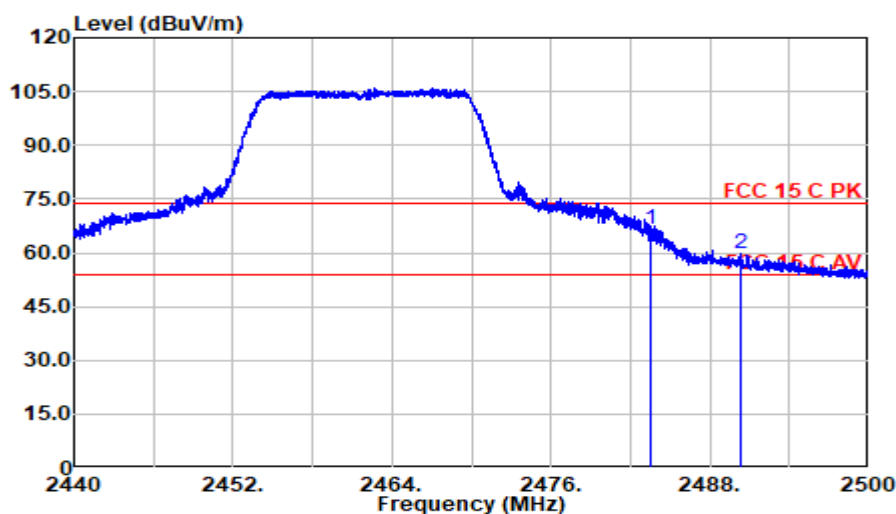
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2375.455	57.04	28.50	5.37	36.88	54.04	74.00	19.96	Peak
2390.000	60.30	28.56	5.39	36.86	57.39	74.00	16.61	Peak

Mode: 802.11g CH2412MHz



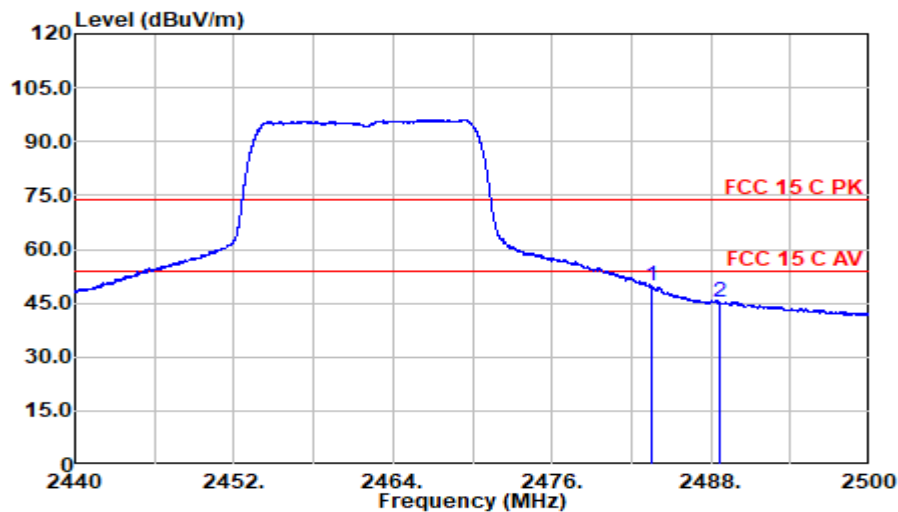
Polarization at Vertical

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
2379.550	43.49	28.52	5.38	36.87	40.52	54.00	13.48	Average
2390.000	44.53	28.56	5.39	36.86	41.62	54.00	12.38	Average

Mode: 802.11g CH2462MHz

Polarization at Horizontal

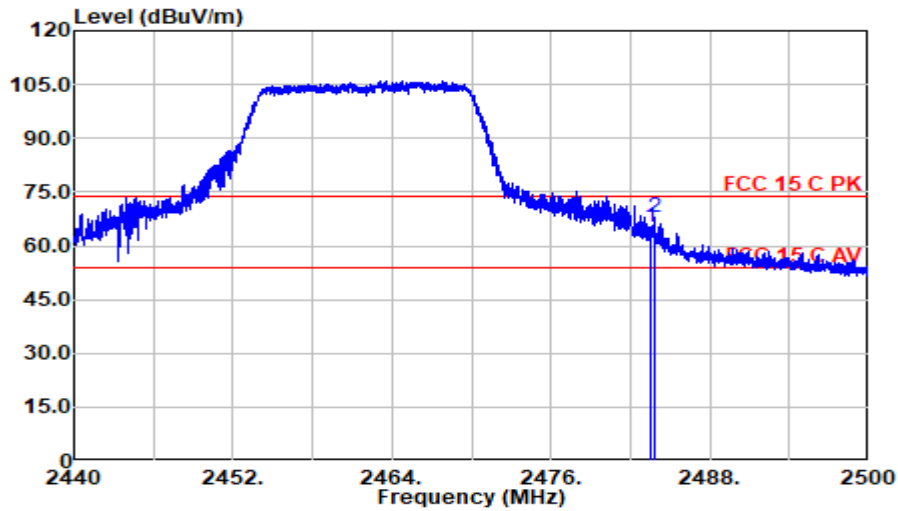
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	69.39	28.63	5.47	36.77	66.73	74.00	7.27	Peak
2490.325	62.61	28.66	5.48	36.76	59.99	74.00	14.01	Peak

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	52.45	28.63	5.47	36.77	49.79	54.00	4.21	Average
2488.630	48.01	28.65	5.47	36.76	45.37	54.00	8.63	Average

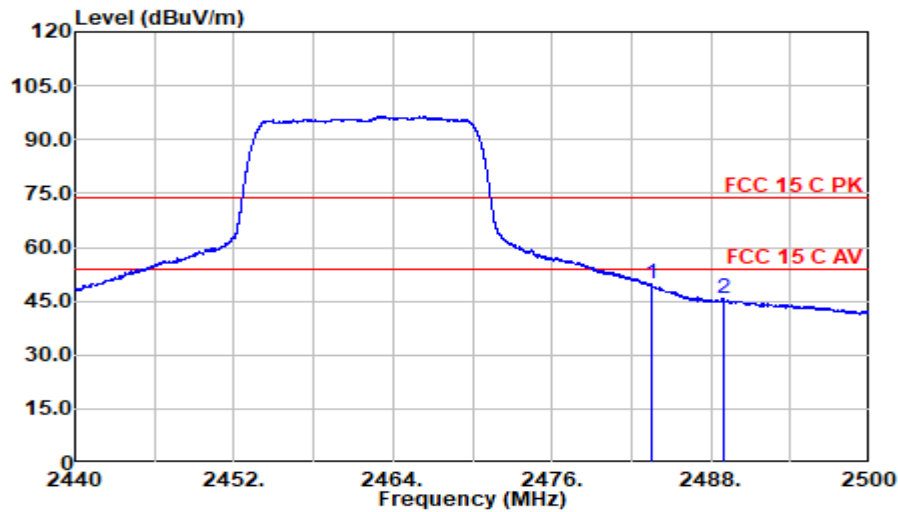
Mode: 802.11g CH2462MHz



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	67.65	28.63	5.47	36.77	64.99	74.00	9.01	Peak
2483.800	70.77	28.64	5.47	36.77	68.11	74.00	5.89	Peak

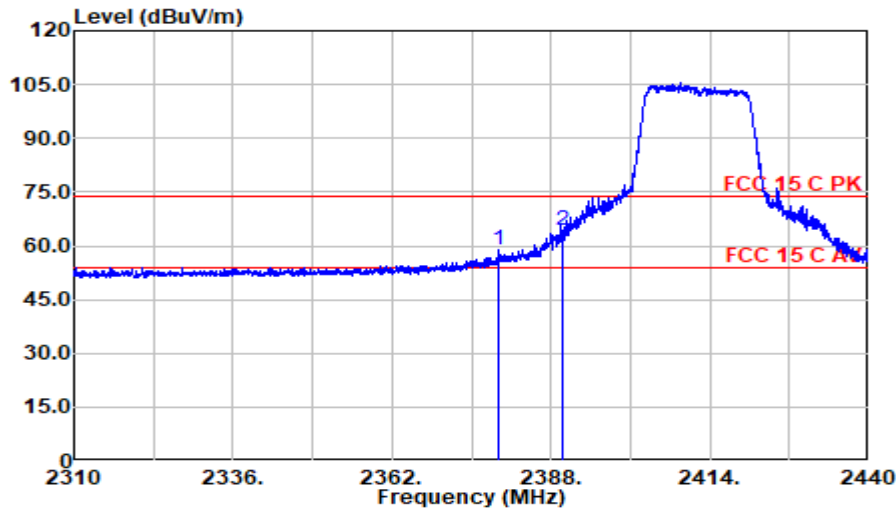
Mode: 802.11g CH2462MHz



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	52.29	28.63	5.47	36.77	49.62	54.00	4.38	Average
2488.930	48.17	28.66	5.47	36.76	45.54	54.00	8.46	Average

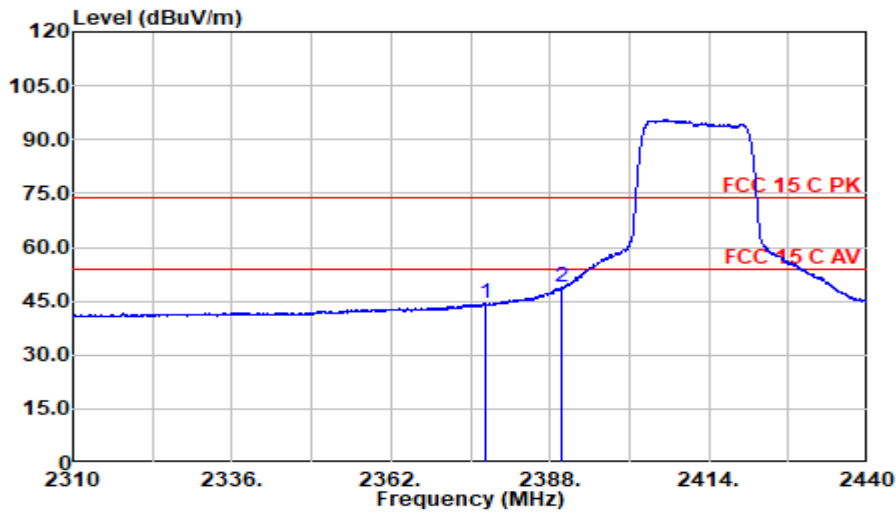
Mode: 802.11n20 CH2412MHz



Polarization at Horizontal

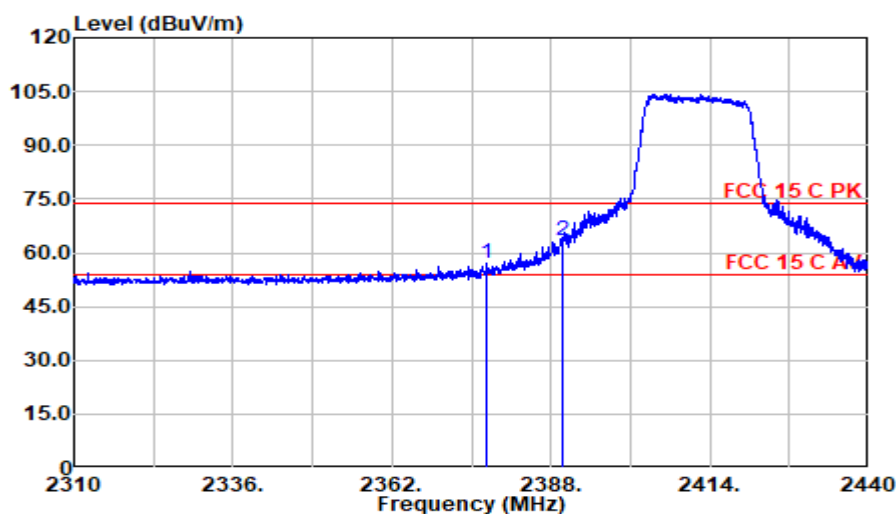
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2379.355	61.83	28.52	5.38	36.87	58.86	74.00	15.14	Peak
2390.000	67.15	28.56	5.39	36.86	64.24	74.00	9.76	Peak

Mode: 802.11n20 CH2412MHz



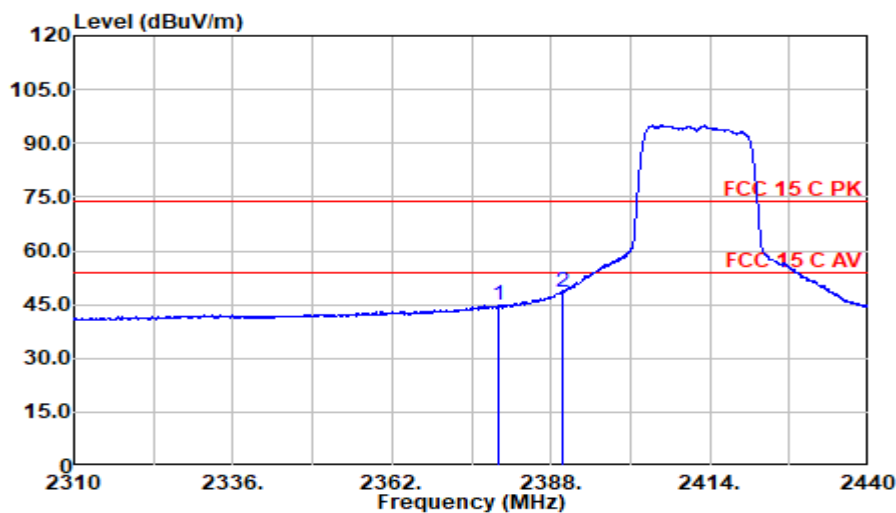
Polarization at Horizontal

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
2377.600	47.44	28.51	5.38	36.87	44.45	54.00	9.55	Average
2390.000	51.63	28.56	5.39	36.86	48.71	54.00	5.29	Average

Mode: 802.11n20 CH2412MHz

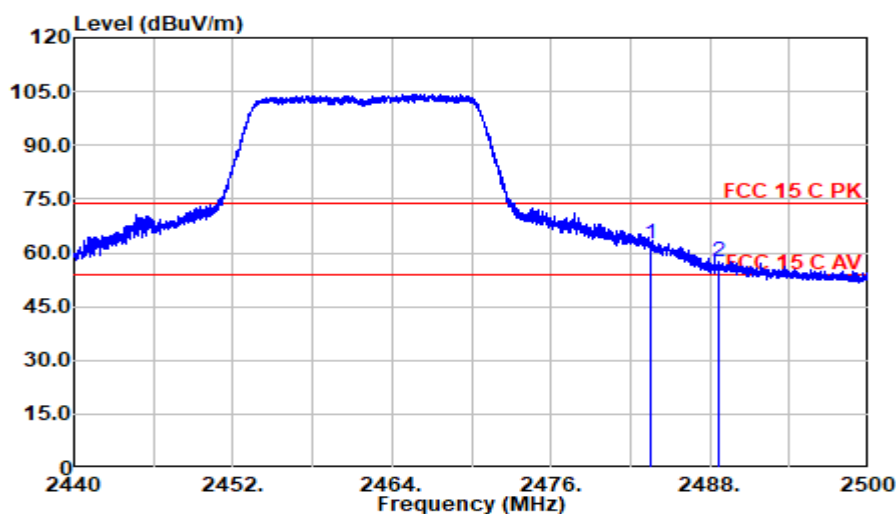
Polarization at Vertical

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
2377.600	60.12	28.51	5.38	36.87	57.14	74.00	16.86	Peak
2390.000	66.21	28.56	5.39	36.86	63.30	74.00	10.70	Peak

Mode: 802.11n20 CH2412MHz

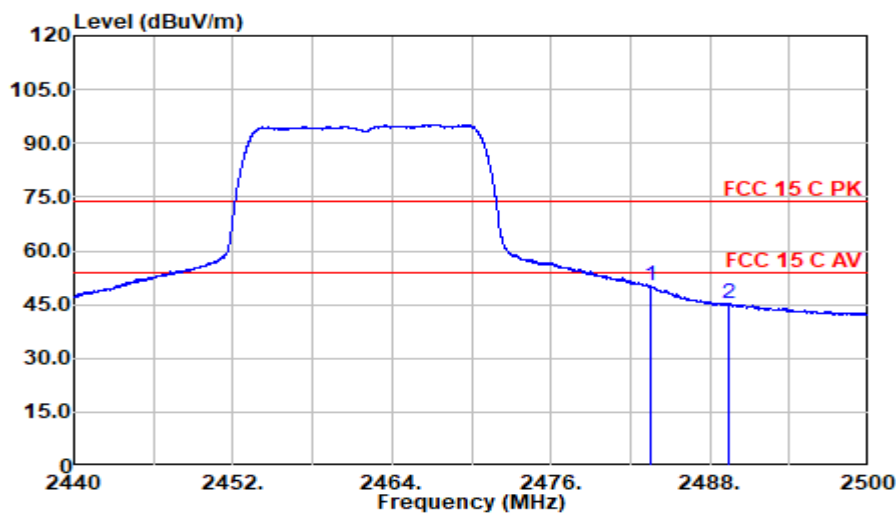
Polarization at Vertical

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
2379.550	47.80	28.52	5.38	36.87	44.83	54.00	9.17	Average
2390.000	51.53	28.56	5.39	36.86	48.61	54.00	5.39	Average

Mode: 802.11n20 CH2462MHz

Polarization at Horizontal

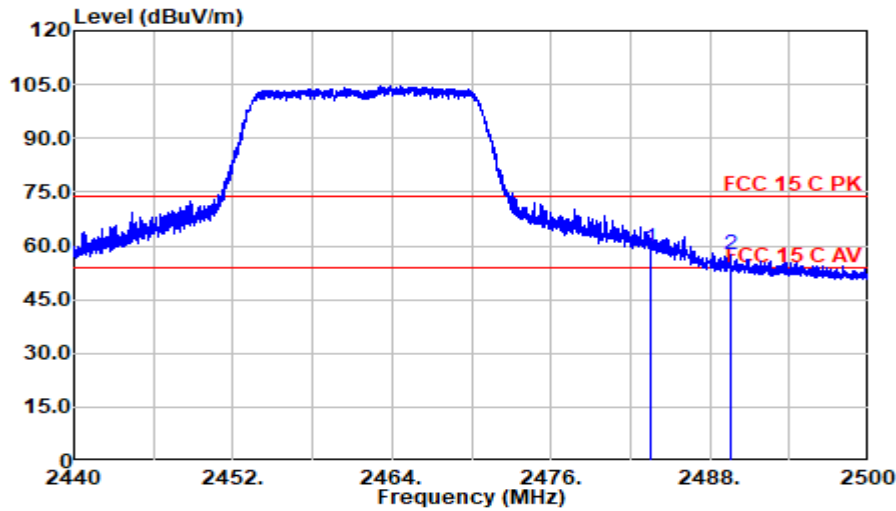
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	65.03	28.63	5.47	36.77	62.37	74.00	11.63	Peak
2488.705	60.09	28.66	5.47	36.76	57.46	74.00	16.54	Peak

Mode: 802.11n20 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	52.70	28.63	5.47	36.77	50.04	54.00	3.96	Average
2489.410	48.13	28.66	5.47	36.76	45.51	54.00	8.49	Average

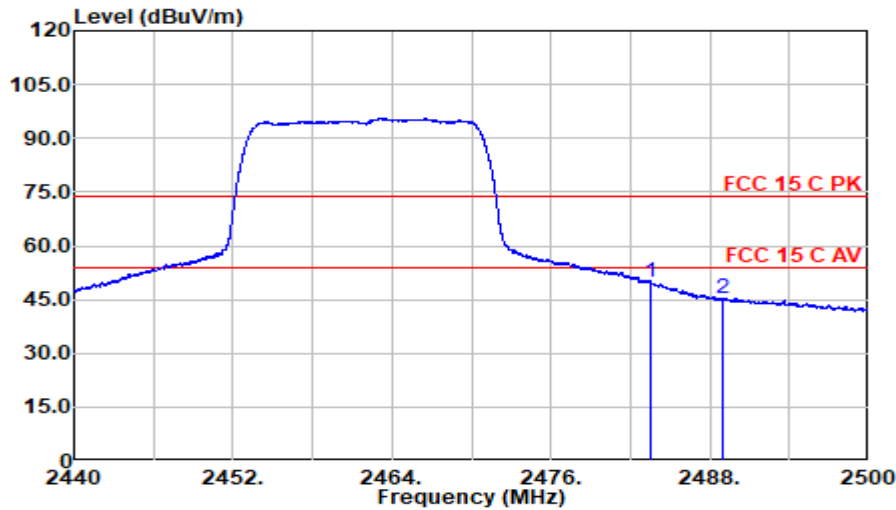
Mode: 802.11n20 CH2462MHz



Polarization at Vertical

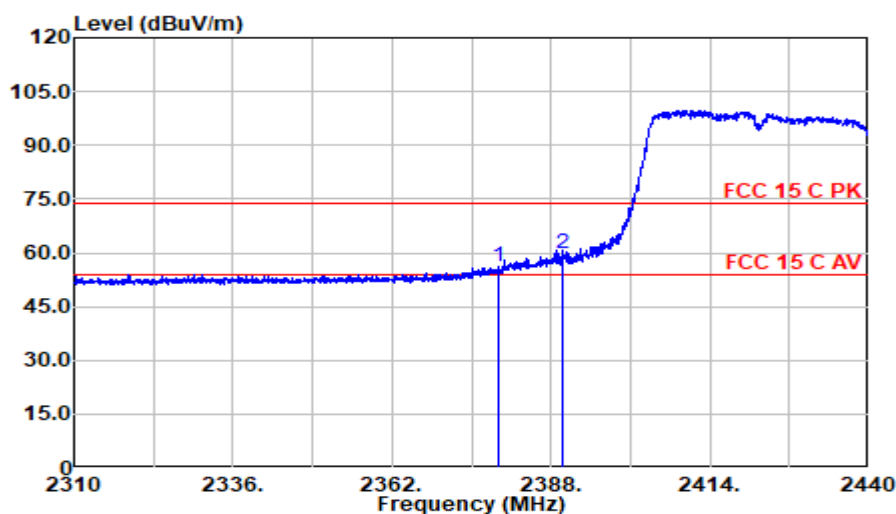
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	62.17	28.63	5.47	36.77	59.51	74.00	14.49	Peak
2489.545	60.03	28.66	5.47	36.76	57.40	74.00	16.60	Peak

Mode: 802.11n20 CH2462MHz



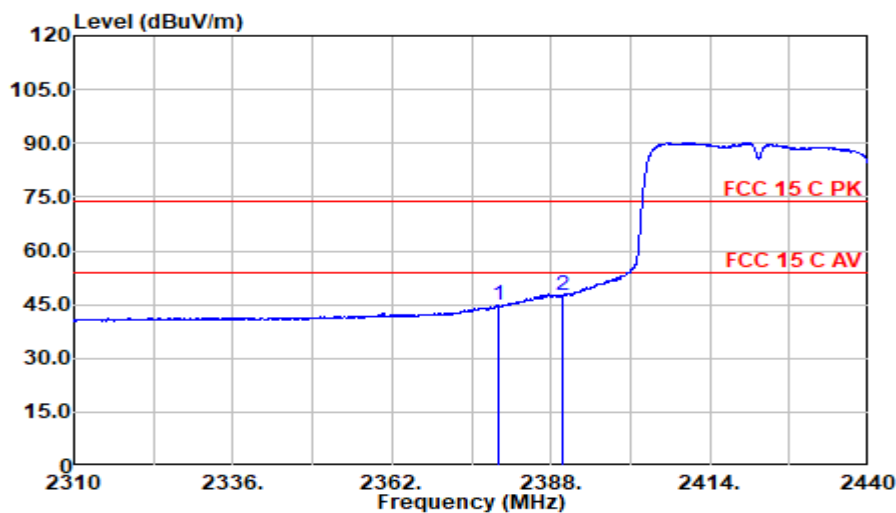
Polarization at Vertical

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	52.48	28.63	5.47	36.77	49.82	54.00	4.18	Average
2488.945	48.11	28.66	5.47	36.76	45.48	54.00	8.52	Average

Mode: 802.11n40 CH2422MHz

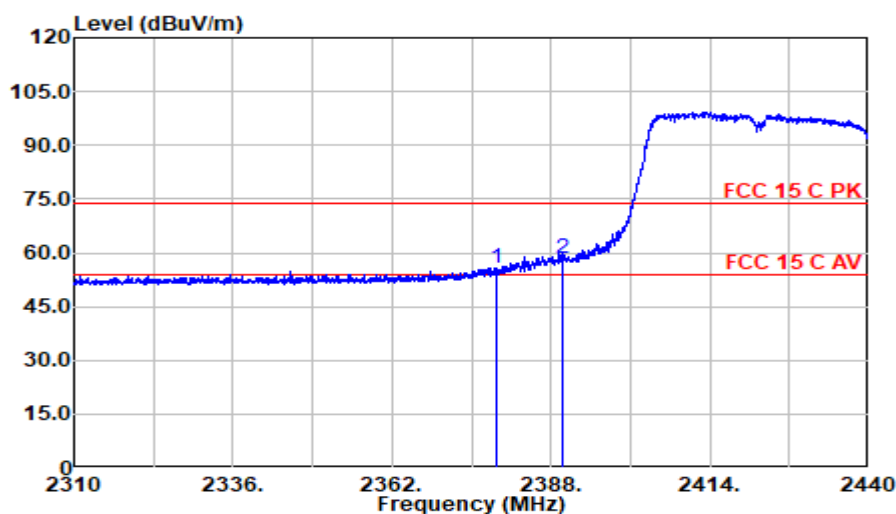
Polarization at Horizontal

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
2379.485	59.19	28.52	5.38	36.87	56.22	74.00	17.78	Peak
2390.000	62.53	28.56	5.39	36.86	59.61	74.00	14.39	Peak

Mode: 802.11n40 CH2422MHz

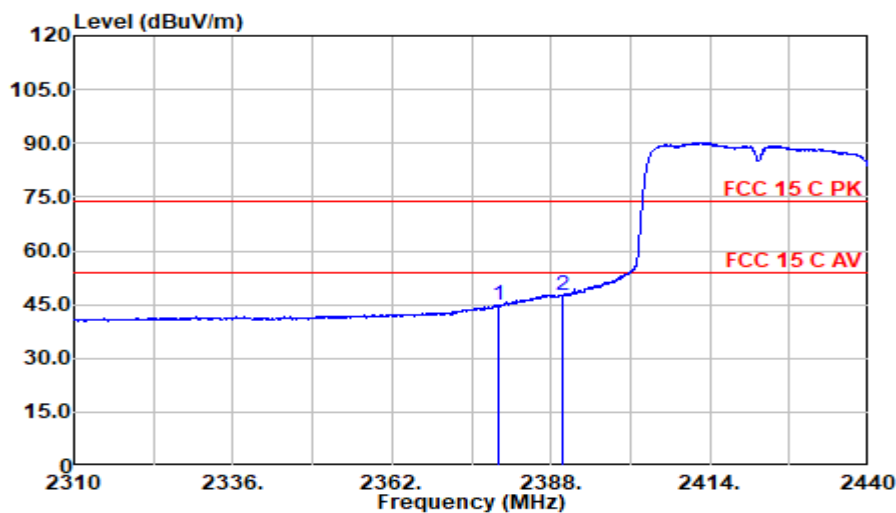
Polarization at Horizontal

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
2379.290	47.88	28.52	5.38	36.87	44.91	54.00	9.09	Average
2390.000	50.54	28.56	5.39	36.86	47.63	54.00	6.37	Average

Mode: 802.11n40 CH2422MHz

Polarization at Vertical

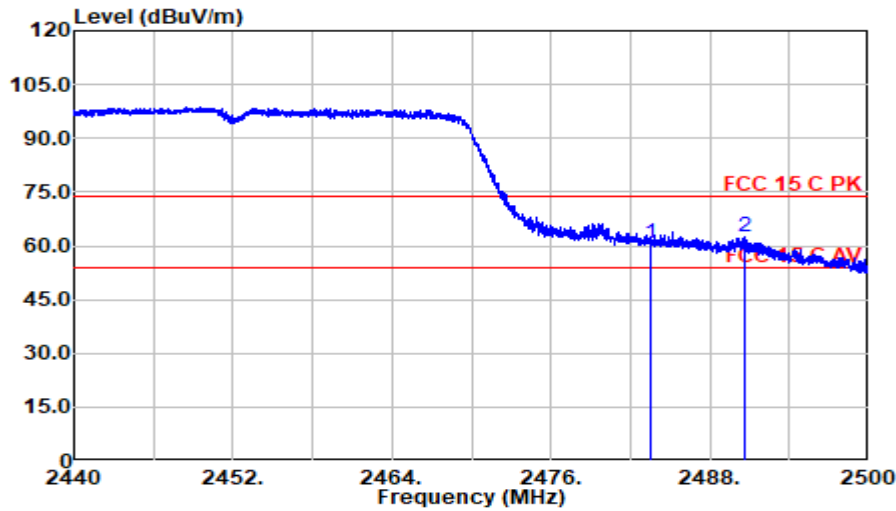
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2379.030	58.84	28.52	5.38	36.87	55.87	74.00	18.13	Peak
2390.000	61.41	28.56	5.39	36.86	58.50	74.00	15.50	Peak

Mode: 802.11n40 CH2422MHz

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
2379.550	47.71	28.52	5.38	36.87	44.73	54.00	9.27	Average
2390.000	50.68	28.56	5.39	36.86	47.77	54.00	6.23	Average

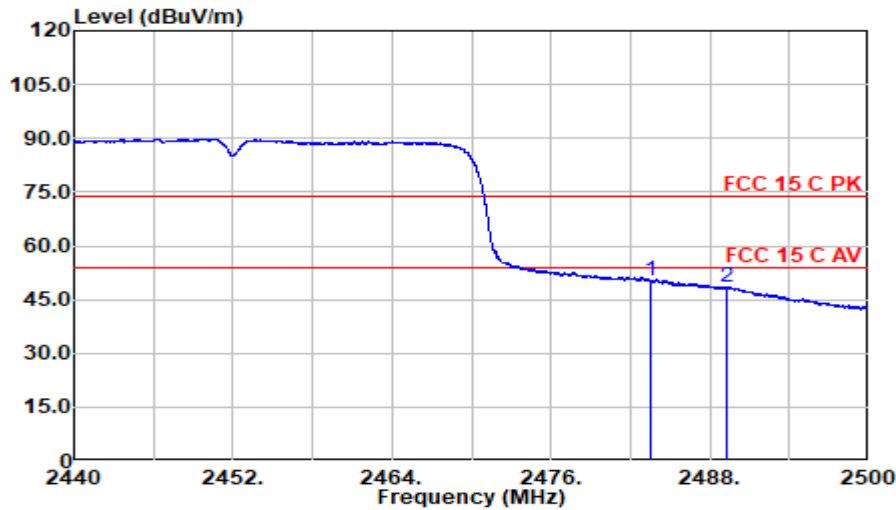
Mode: 802.11n40 CH2452MHz



Polarization at Horizontal

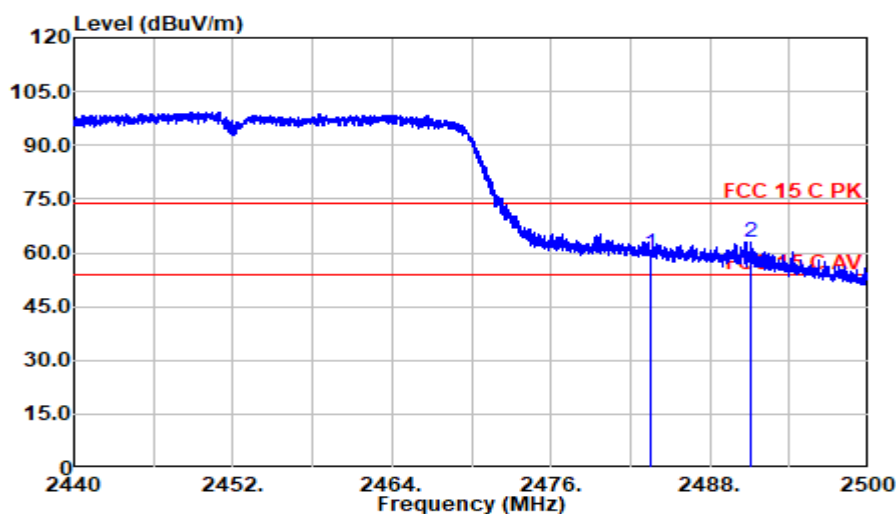
Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
2483.500	63.45	28.63	5.47	36.77	60.79	74.00	13.21	Peak
2490.580	65.22	28.66	5.48	36.76	62.60	74.00	11.40	Peak

Mode: 802.11n40 CH2452MHz



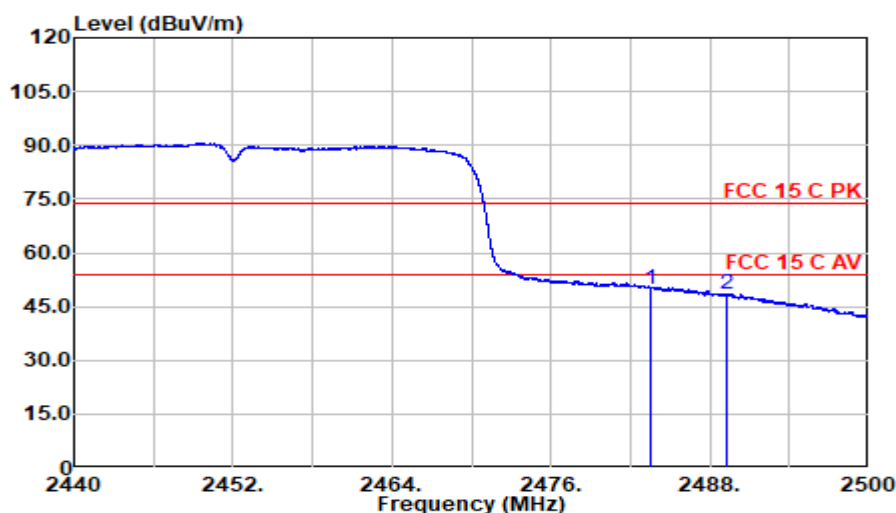
Polarization at Horizontal

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	52.74	28.63	5.47	36.77	50.08	54.00	3.92	Average
2489.260	51.22	28.66	5.47	36.76	48.59	54.00	5.41	Average

Mode: 802.11n40 CH2452MHz

Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μ V)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μ V/m)	Limits dB (μ V/m)	Margin (dB)	Remark
2483.500	62.35	28.63	5.47	36.77	59.69	74.00	14.31	Peak
2491.030	65.78	28.66	5.48	36.76	63.16	74.00	10.84	Peak

Mode: 802.11n40 CH2452MHz

Polarization at Vertical

Frequency (MHz)	Meter Reading dB (μ V)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μ V/m)	Limits dB (μ V/m)	Margin (dB)	Remark
2483.500	52.62	28.63	5.47	36.77	49.96	54.00	4.04	Average
2489.290	51.30	28.66	5.47	36.76	48.67	54.00	5.33	Average

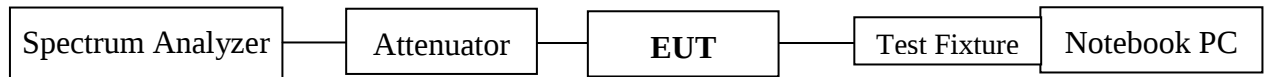
5 99% OCCUPIED BANDWIDTH MEASUREMENT

5.1 Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	20 dB Attenuator	Mini-Circuits	BW-S20W2+	001	2023.09.21	1 Year

5.2 Block Diagram of Test Setup



5.3 Operating Condition of EUT

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

5.4 Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of 99% power bandwidth was measure by spectrum analyzer with settings: Span = between 1.5 times and 5.0 times of the OBW, RBW = 1% to 5% of the OBW, VBW $\geq 3 \times$ RBW, Detector = Peak, Trace = Max Hold.

Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

The test procedure is defined in ANSI C63.10-2013 (the 6.9.3 Measurement Procedure “Occupied bandwidth—power bandwidth (99%) measurement procedure” was used).

5.5 Test Results

PASSED.

All the test results are attached in next pages.

(Test Date: 2024.06.04-05 Temperature: 23°C Humidity: 51 %)

Mode	Channel	Frequency (MHz)	99% Bandwidth (MHz)
802.11b	1	2412	13.023
	6	2437	13.033
	11	2462	13.048
802.11g	1	2412	16.759
	6	2437	16.749
	11	2462	16.782
802.11n20	1	2412	17.444
	6	2437	17.435
	11	2462	17.447
802.11n40	3	2422	35.83
	6	2437	35.82
	9	2452	35.819

802.11b



802.11g

CH2412



CH2437



CH2462



802.11n20

CH2412



CH2437



CH2462



802.11n40



6 6 dB BANDWIDTH MEASUREMENT

6.1 Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	20 dB Attenuator	Mini-Circuits	BW-S20W2+	001	2023.09.21	1 Year

6.2 Block Diagram of Test Setup

The Same as Section. 5.2.

6.3 Specification Limits (§15.247(a)(2))

The minimum 6 dB bandwidth shall be at least 500 kHz.

6.4 Operating Condition of EUT

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

6.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with settings: RBW = 100kHz, VBW $\geq 3 \times$ RBW.

The 6 dB bandwidth is defined as the total spectrum the power of which is lower than peak power minus 6 dB .

The test procedure is defined in ANSI C63.10-2013 (the 11.8.2 Measurement Procedure “Option 2” was used).

6.6 Test Results

PASSED.

All the test results are attached in next pages.

(Test Date: 2024.06.04-05 Temperature: 23°C Humidity: 51 %)

Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit
802.11b	1	2412	9.335	500 kHz
	6	2437	9.325	500 kHz
	11	2462	9.236	500 kHz
802.11g	1	2412	16.39	500 kHz
	6	2437	16.4	500 kHz
	11	2462	16.4	500 kHz
802.11n20	1	2412	16.95	500 kHz
	6	2437	16.89	500 kHz
	11	2462	16.91	500 kHz
802.11n40	3	2422	35.17	500 kHz
	6	2437	35.17	500 kHz
	9	2452	35.17	500 kHz

802.11b

CH2412



CH2437



CH2462



802.11g

CH2412



CH2437



CH2462



802.11n20

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802.11n40

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7 MAXIMUM OUTPUT POWER MEASUREMENT

7.1 Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	20 dB Attenuator	Mini-Circuits	BW-S20W2+	001	2023.09.21	1 Year

7.2 Block Diagram of Test Setup

The Same as Section. 5.2.

7.3 Specification Limits ((§15.247(b)(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5 MHz is: 1 Watt. (30 dBm)

7.4 Operating Condition of EUT

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

7.5 Test Procedure

The transmitter output was connected to the spectrum analyzer.

Method AVGSA-1 uses trace averaging with the EUT transmitting at full power throughout each sweep.

The procedure for this method is as follows:

- Set span to at least 1.5 times the OBW.
- Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- If transmit duty cycle $< 98\%$, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”
- Trace average at least 100 traces in power averaging (rms) mode.
- Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power

function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

The test procedure is defined in ANSI C63.10-2013 (11.9.2.2.2 Measurement Procedure “ Method AVGSA-1” was used).

7.6 Test Results

PASSED.

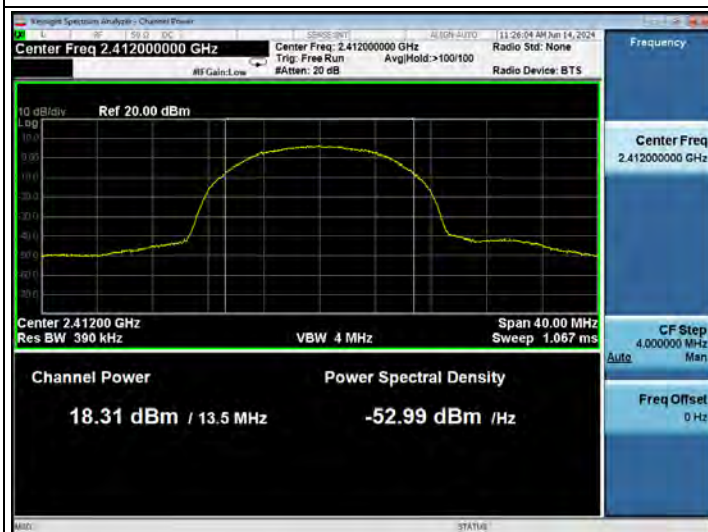
All the test results are listed below.

(Test Date: 2024.06.14 Temperature: 23°C Humidity: 51 %)

Mode	Channel	Frequency (MHz)	Maximum conducted (average) Output Power (dBm)	Limit
802.11b	1	2412	18.31	30 dBm
	6	2437	18.39	30 dBm
	11	2462	18.23	30 dBm
802.11g	1	2412	18.04	30 dBm
	6	2437	17.76	30 dBm
	11	2462	17.67	30 dBm
802.11n20	1	2412	16.83	30 dBm
	6	2437	16.74	30 dBm
	11	2462	16.69	30 dBm
802.11n40	3	2422	14.88	30 dBm
	6	2437	14.34	30 dBm
	9	2452	14.47	30 dBm

802.11b

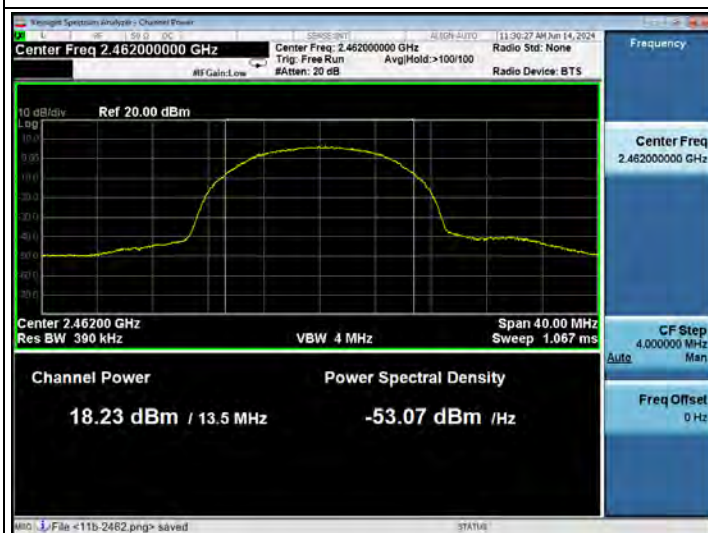
CH2412



CH2437

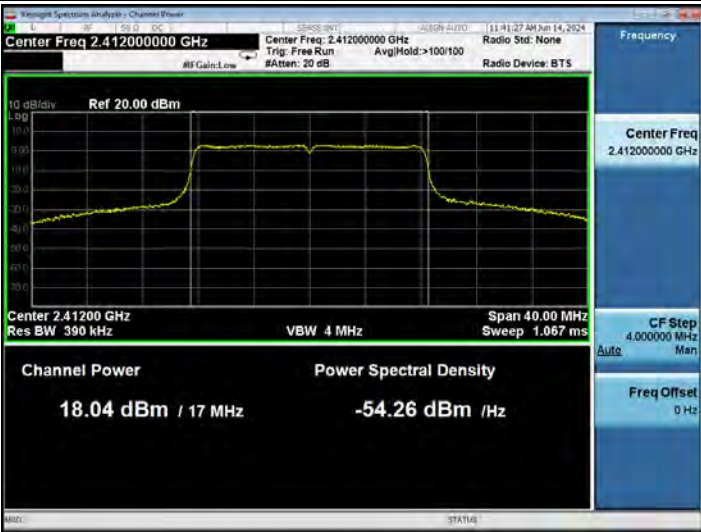


CH2462

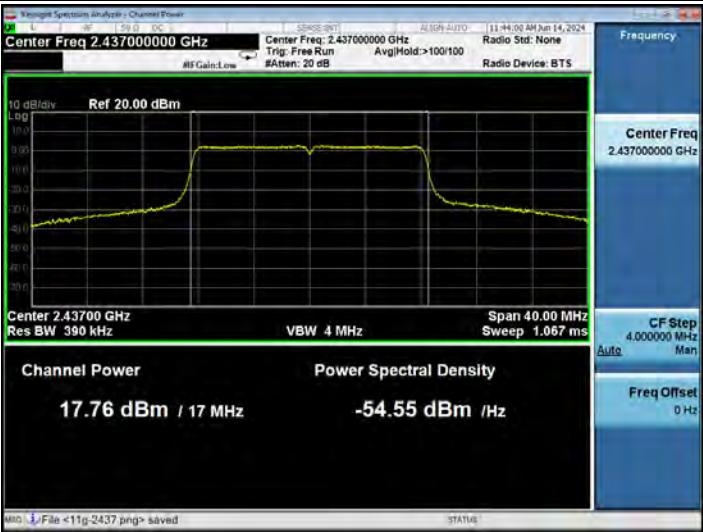


802.11g

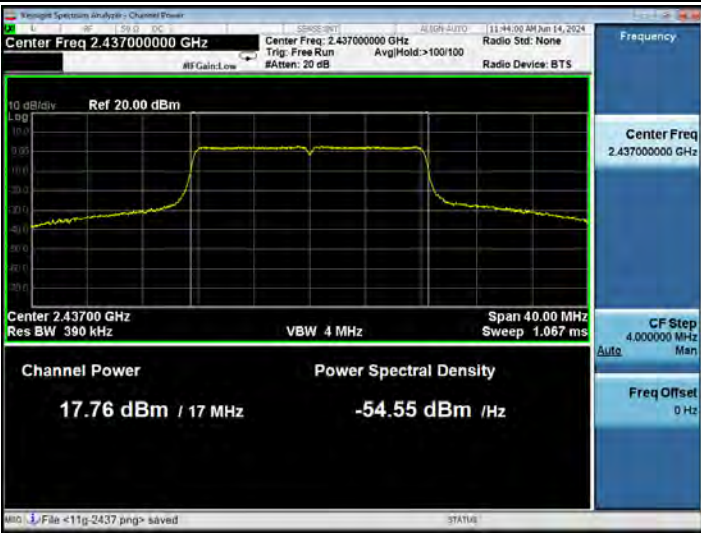
CH2412



CH2437

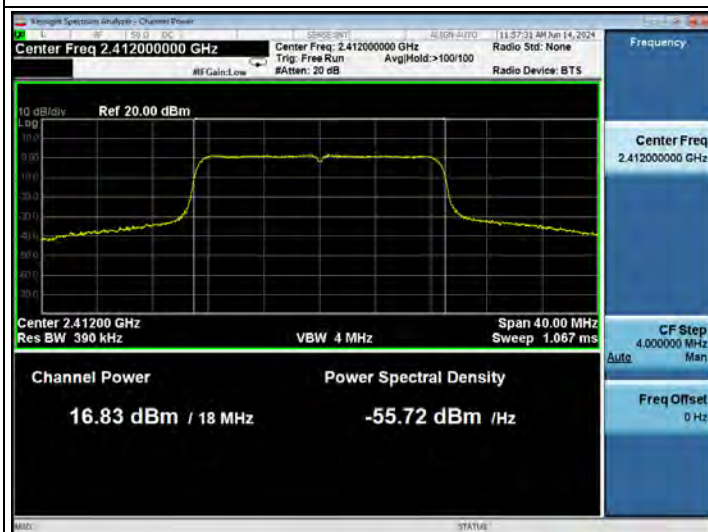


CH2462

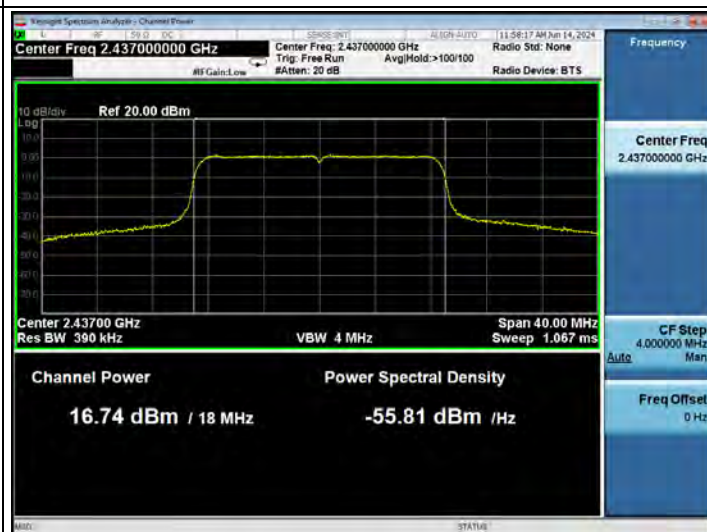


802.11n20

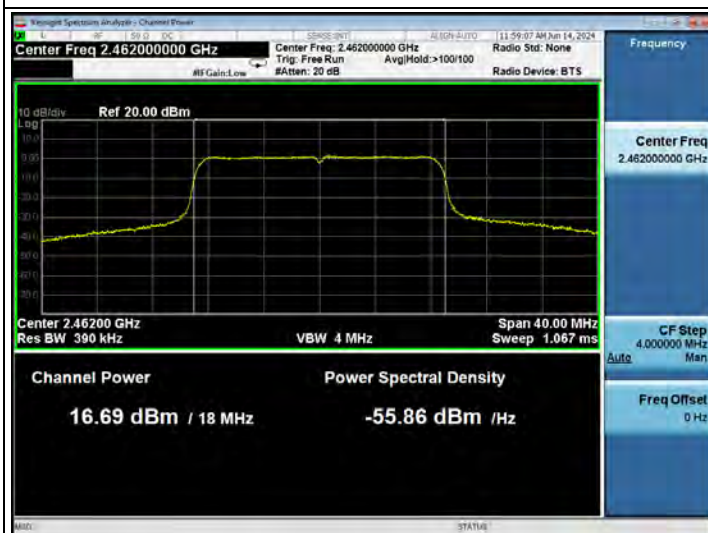
CH2412



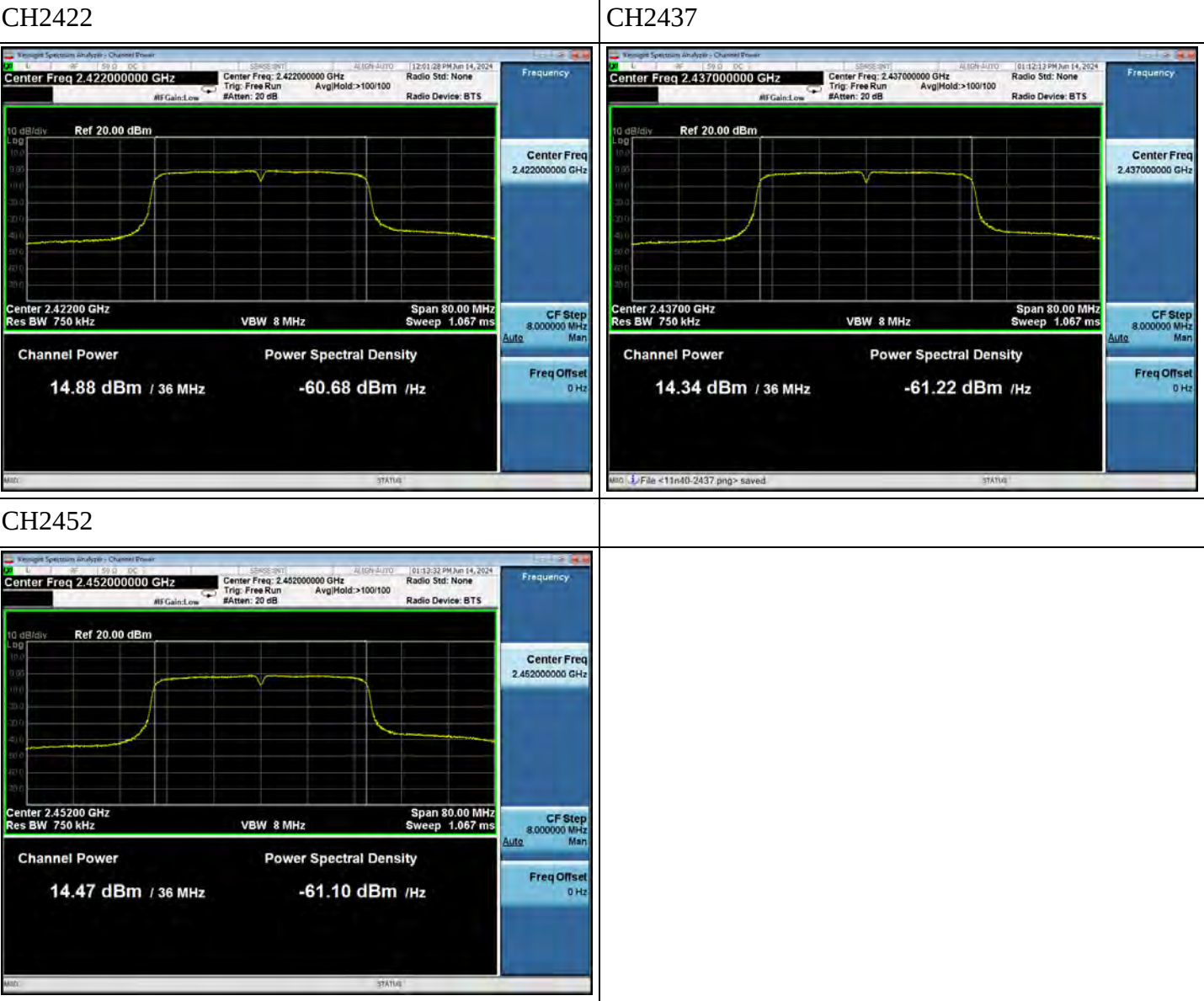
CH2437



CH2462



802.11n40



8 EMISSION LIMITATIONS MEASUREMENT

8.1 Test Equipment

The following test equipment was used during the emission limitations test:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	20 dB Attenuator	Mini-Circuits	BW-S20W2+	001	2023.09.21	1 Year

8.2 Block Diagram of Test Setup

The Same as Section. 5.2.

8.3 Specification Limits (§15.247(d))

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). (※This test result attaching to Section. 3.7)

8.4 Operating Condition of EUT

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

8.5 Test Procedure

The transmitter output was connected to the spectrum analyzer.

Establish a reference level by using the following procedure:

- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to

establish the reference level.

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

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

Scan up through 10th harmonic.

The test procedure is defined in ANSI C63.10-2013 (11.11.2 Reference level measurement and 11.11.3 Emission level measurement was used).

8.6 Test Results

PASSED.

The test data was attached in the next pages.

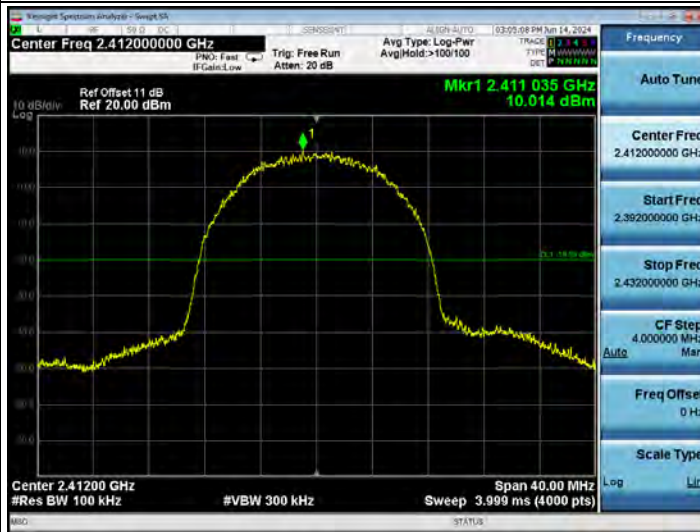
(Test Date: 2023.06.14 Temperature: 23°C Humidity: 51 %)

Mode	Channel	Frequency (MHz)	Data Page
802.11b	1	2412	P71
	6	2437	P72
	11	2462	P73
802.11g	1	2412	P74
	6	2437	P75
	11	2462	P76
802.11n20	1	2412	P77
	6	2437	P78
	11	2462	P79
802.11n40	3	2422	P80
	6	2437	P81
	9	2452	P82

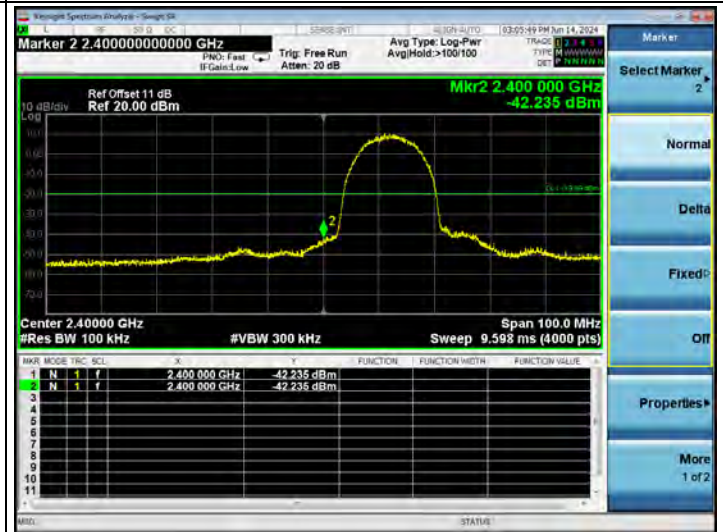
802.11b

CH2412

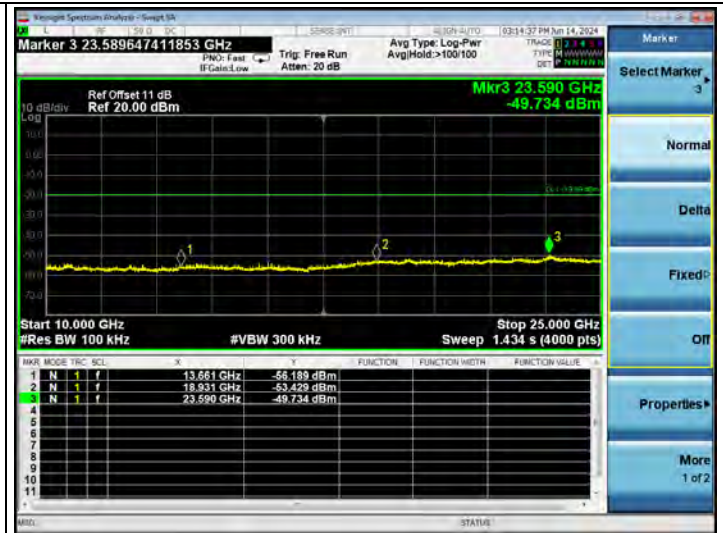
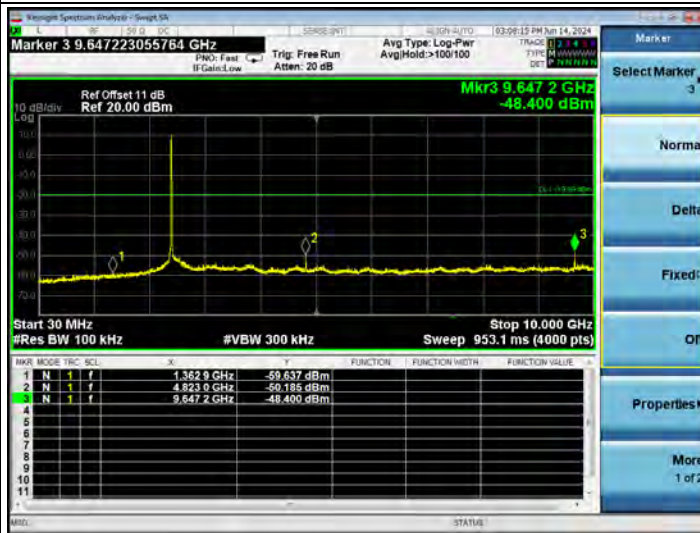
Reference Level



Lower Edge



Emission Level



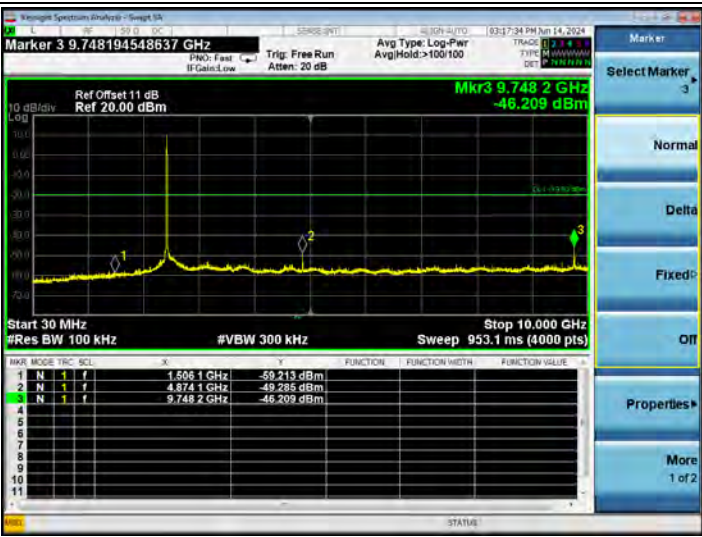
802.11b

CH2437

Reference Level



Emission Level



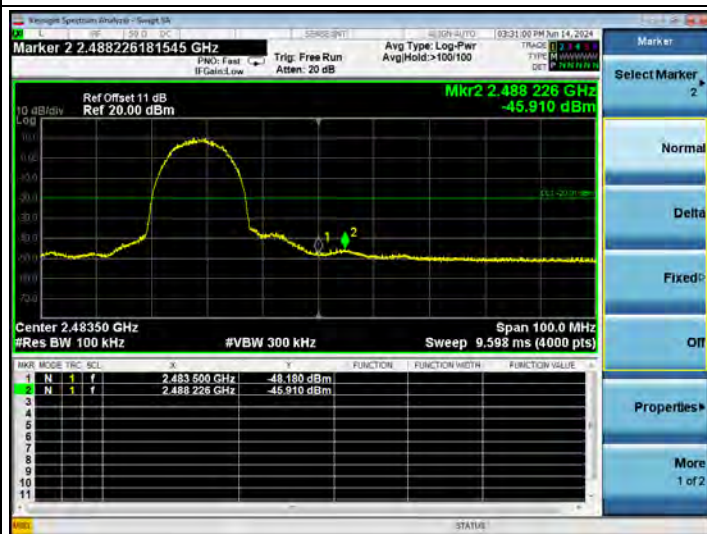
802.11b

CH2462

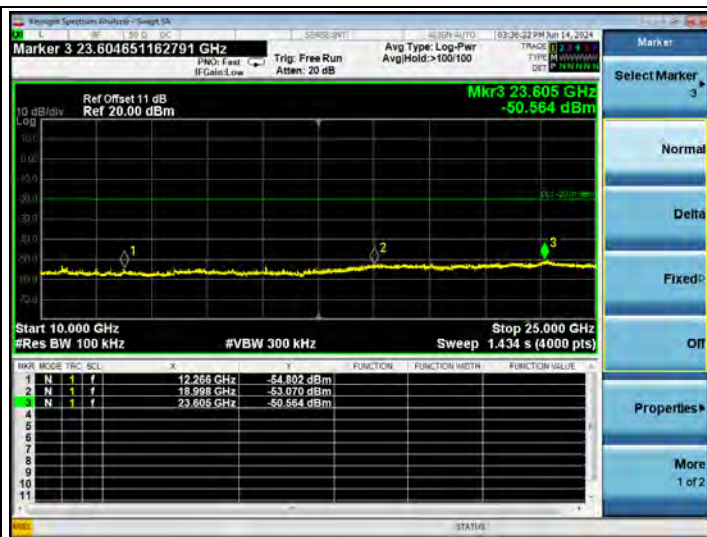
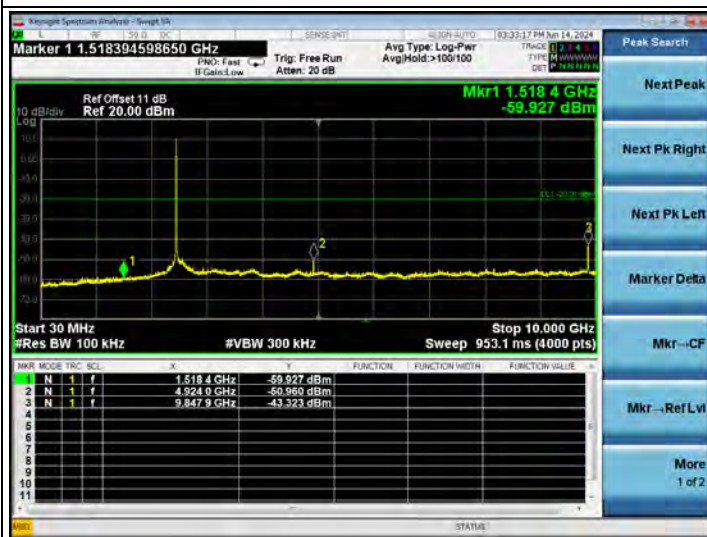
Reference Level



Higher Edge



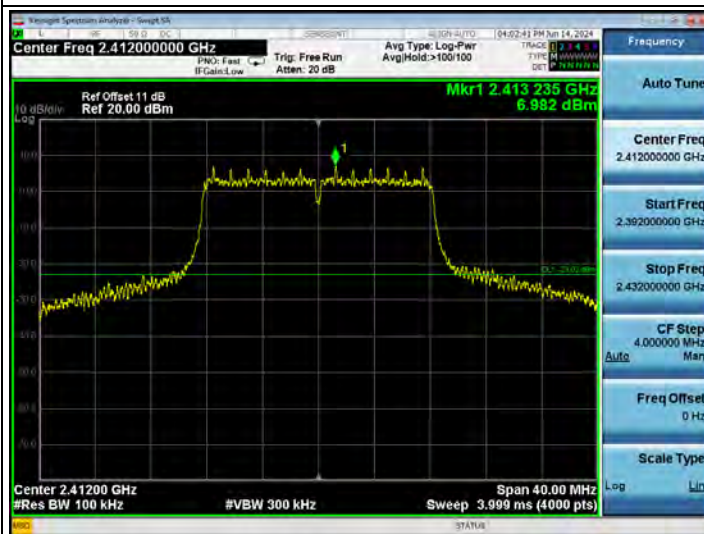
Emission Level



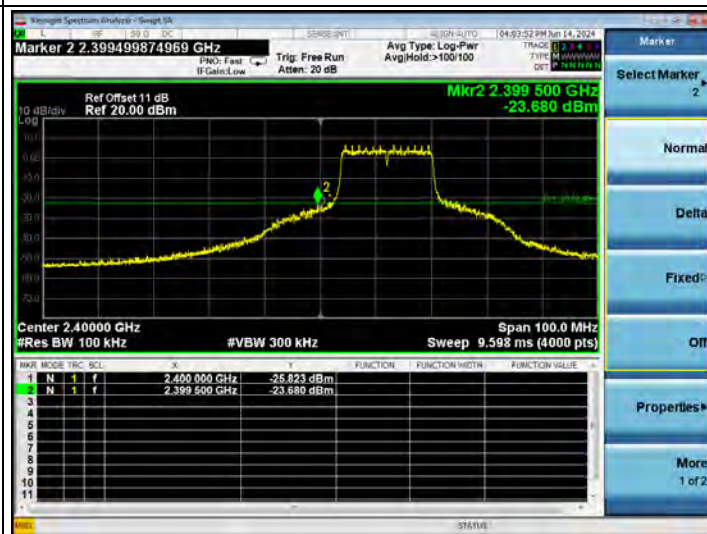
802.11g

CH2412

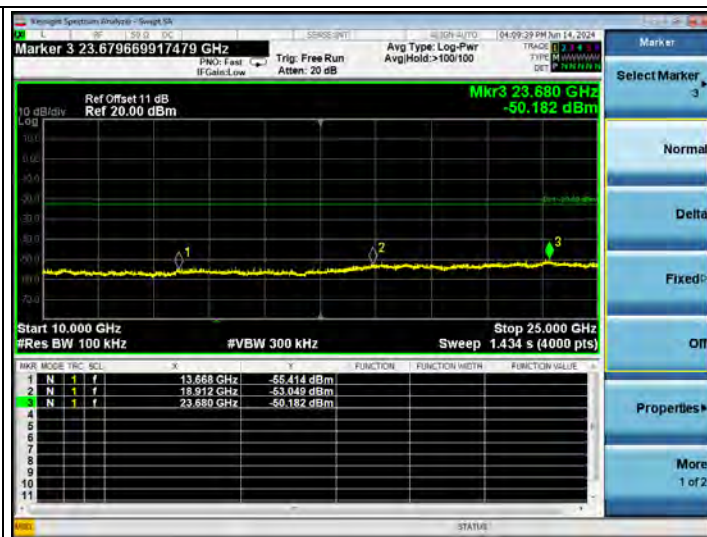
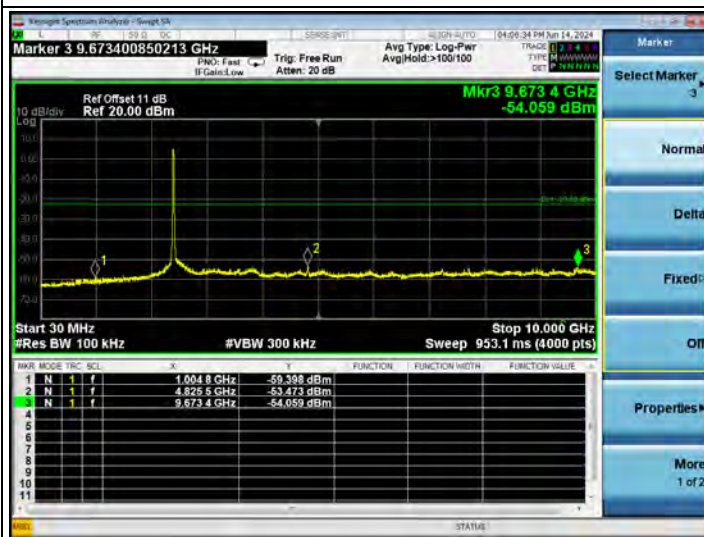
Reference Level



Lower Edge



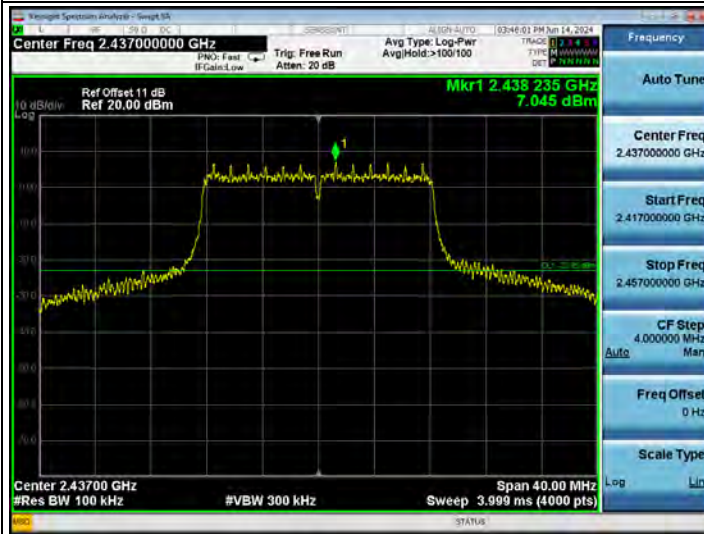
Emission Level



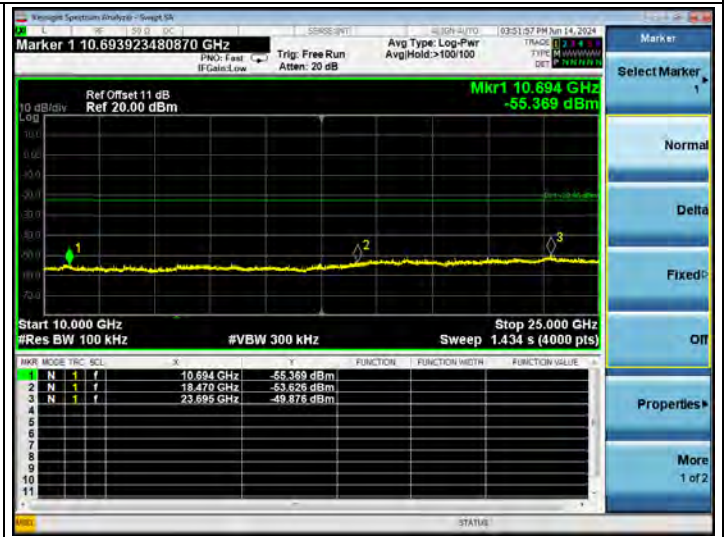
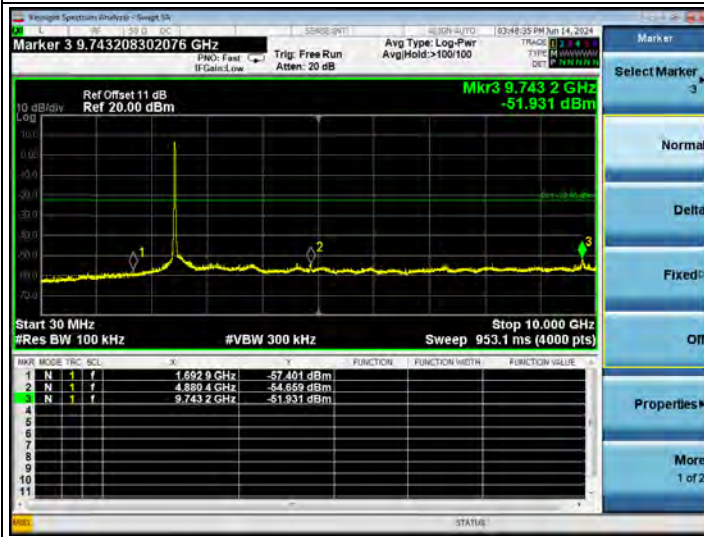
802.11g

CH2437

Reference Level



Emission Level



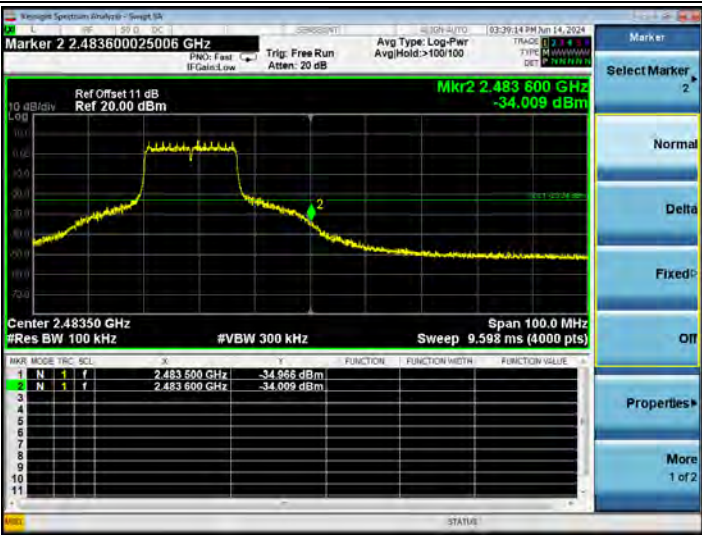
802.11g

CH2462

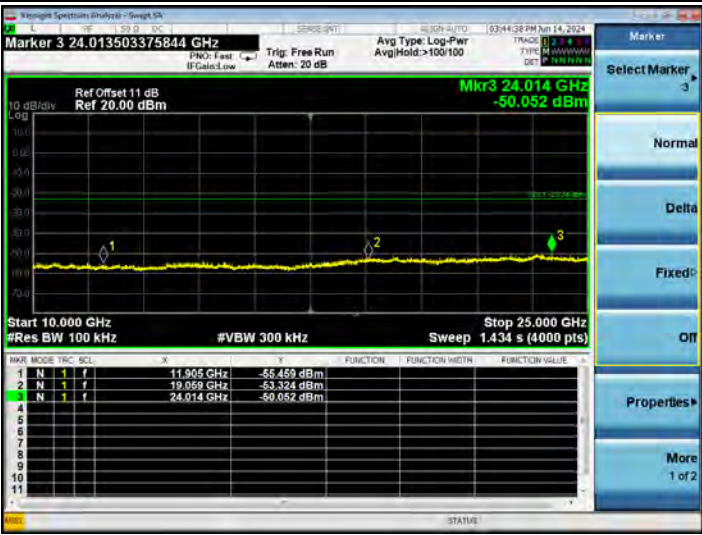
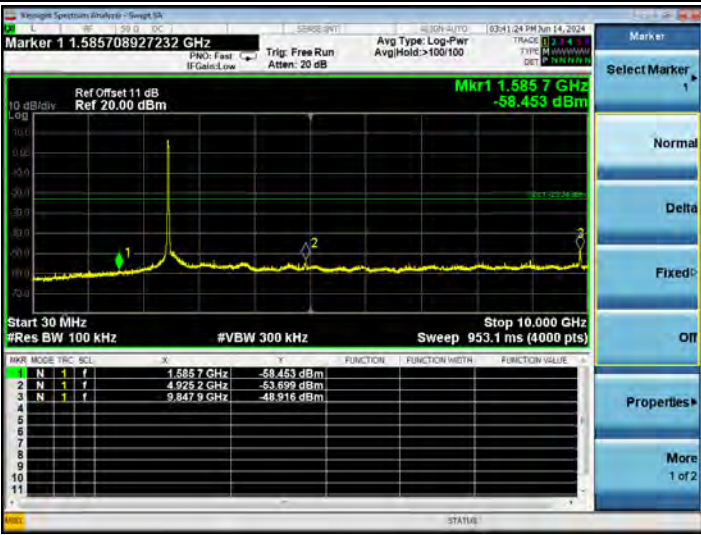
Reference Level



Higher Edge



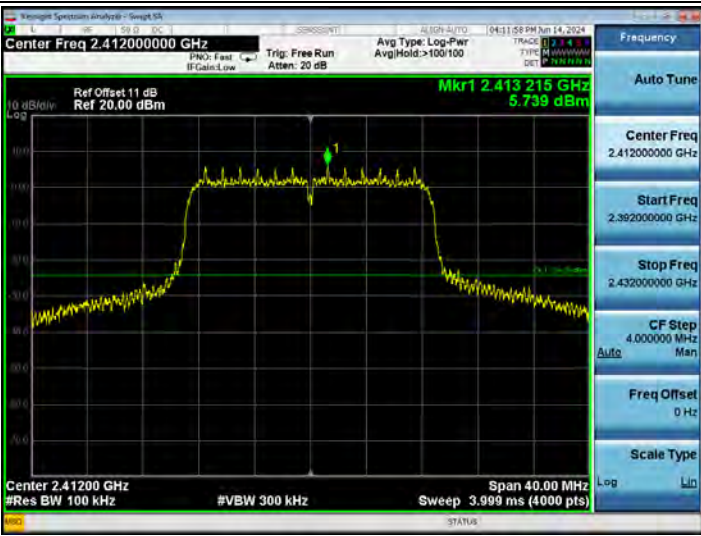
Emission Level



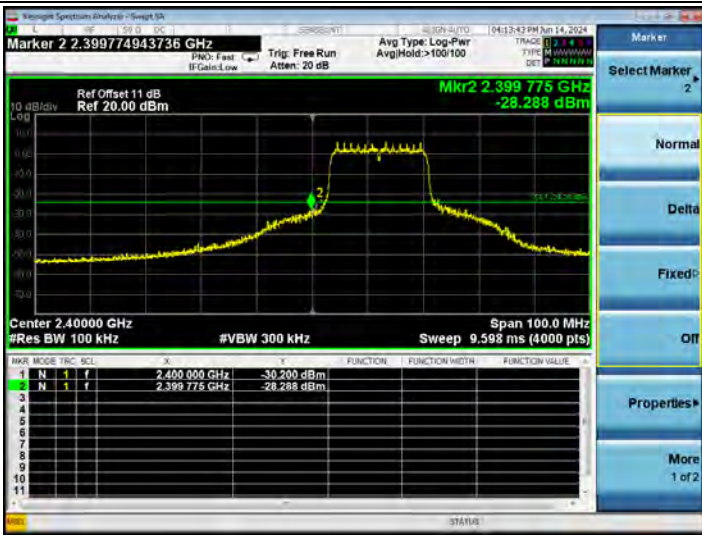
802.11n20

CH2412

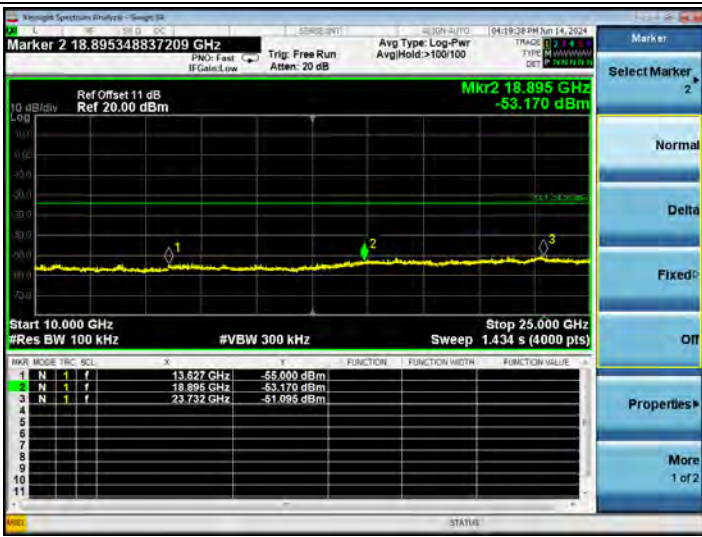
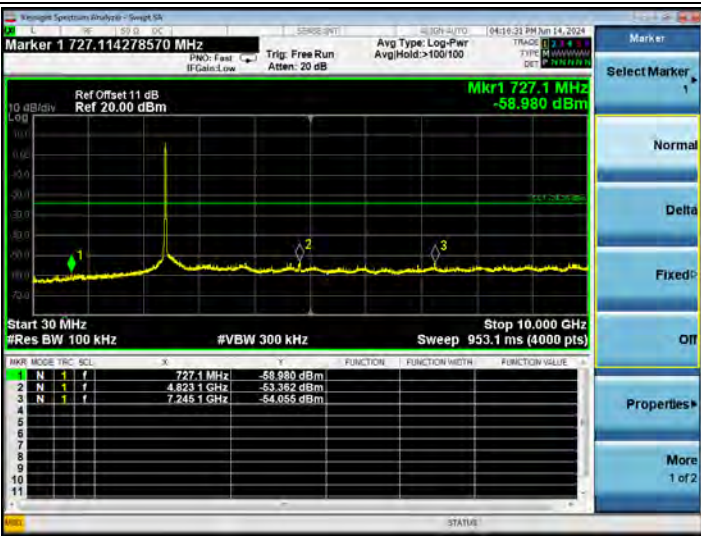
Reference Level



Lower Edge



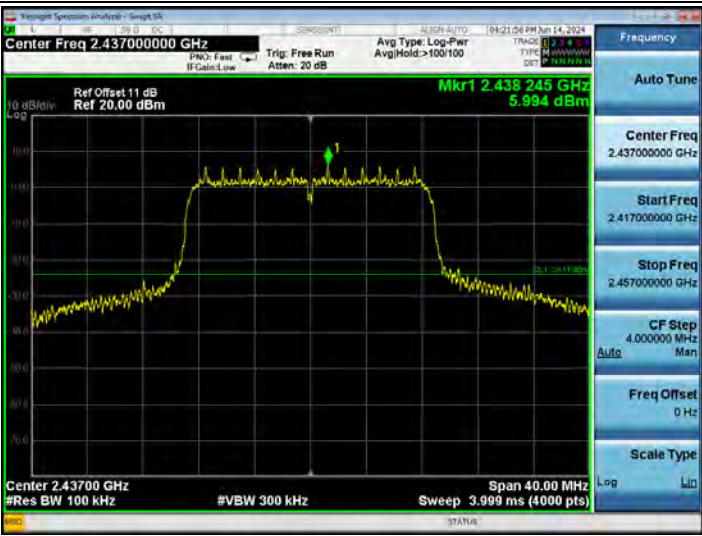
Emission Level



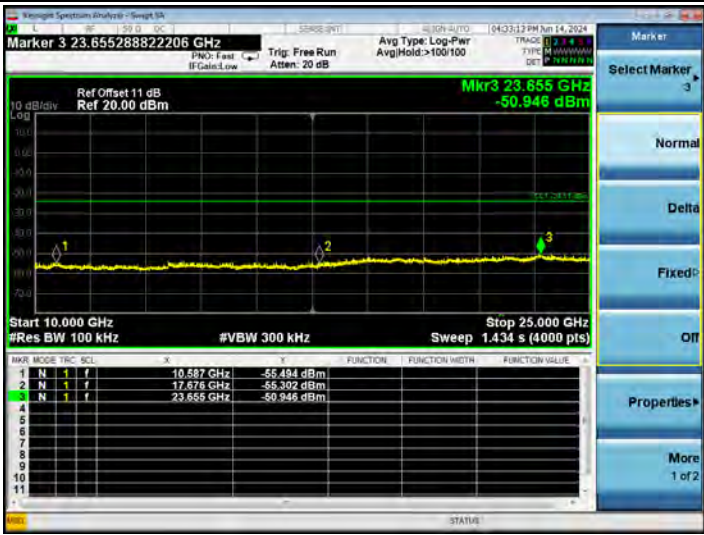
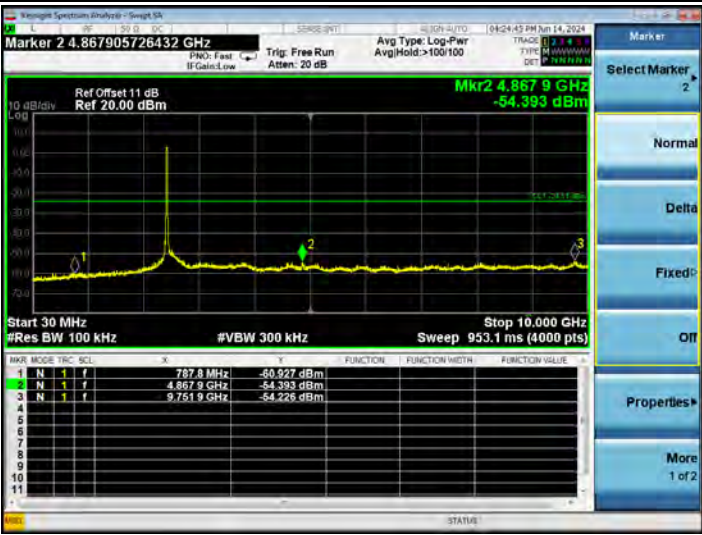
802.11n20

CH2437

Reference Level



Emission Level



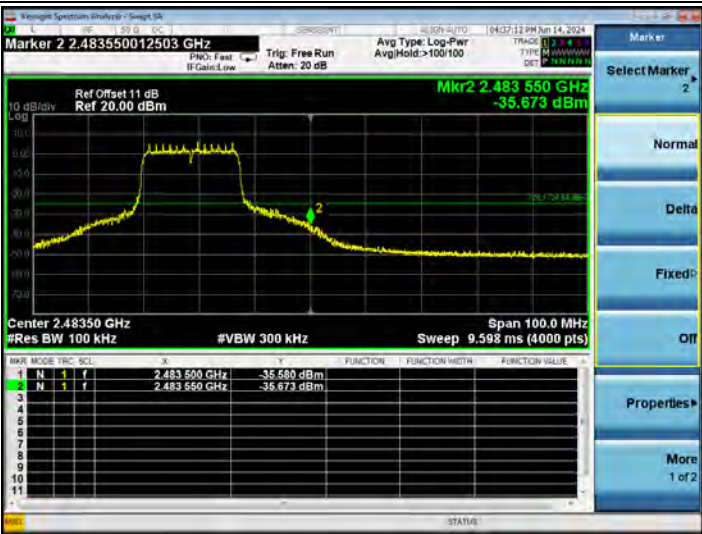
802.11n20

CH2462

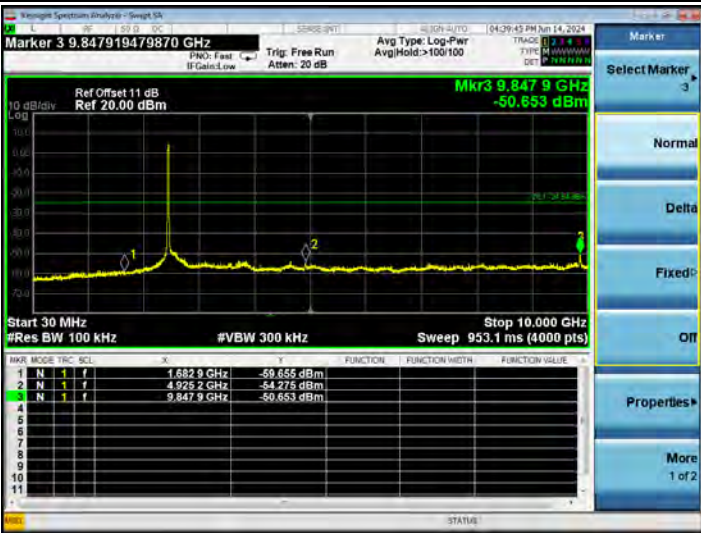
Reference Level



Higher Edge



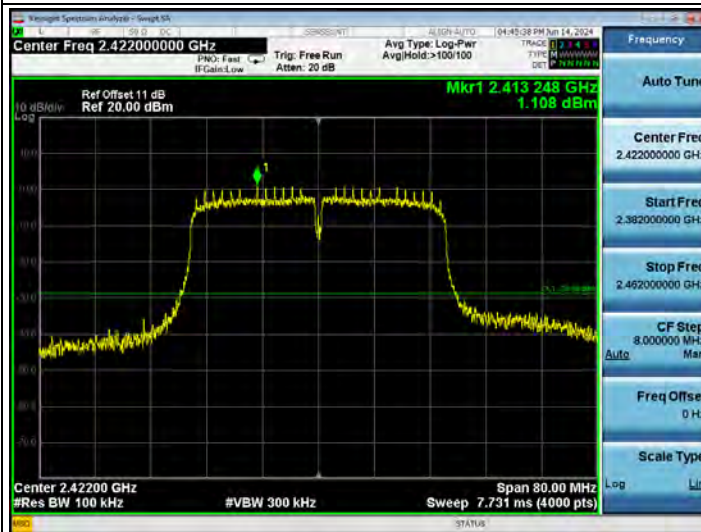
Emission Level



802.11n40

CH2422

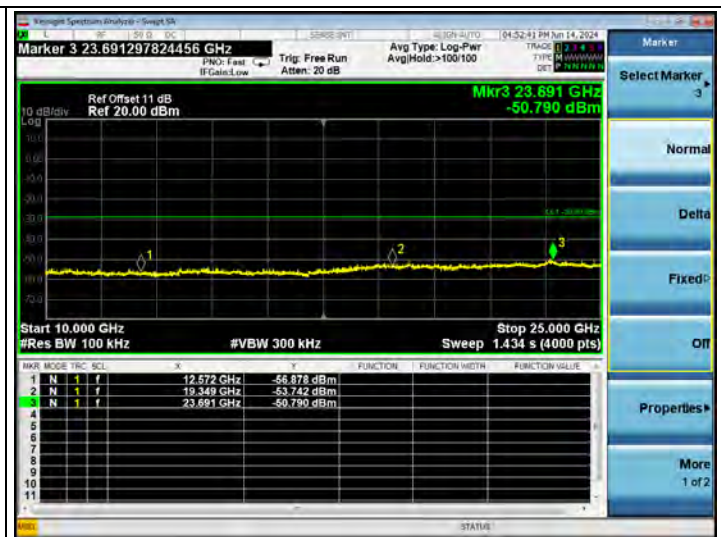
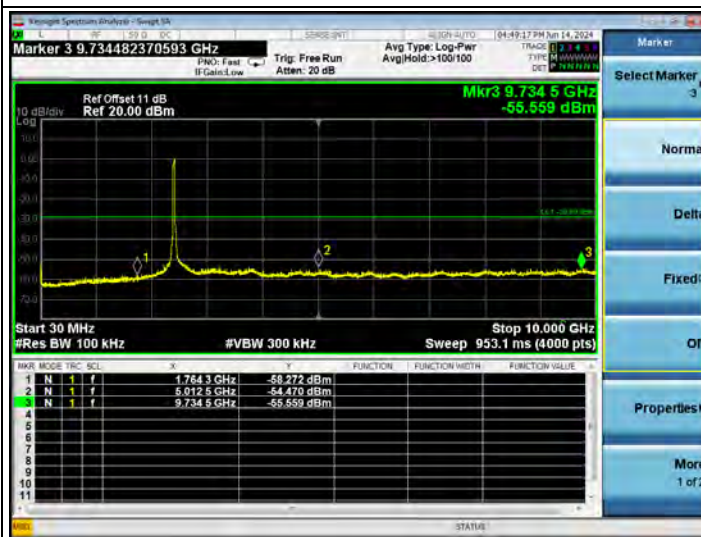
Reference Level



Higher Edge



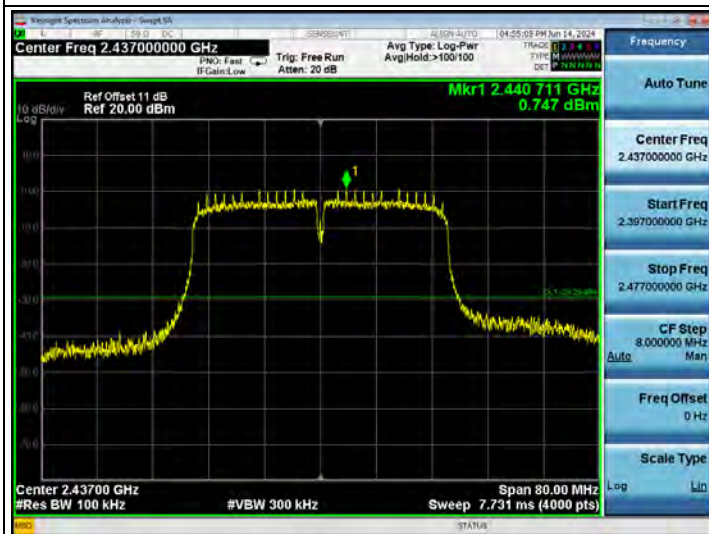
Emission Level



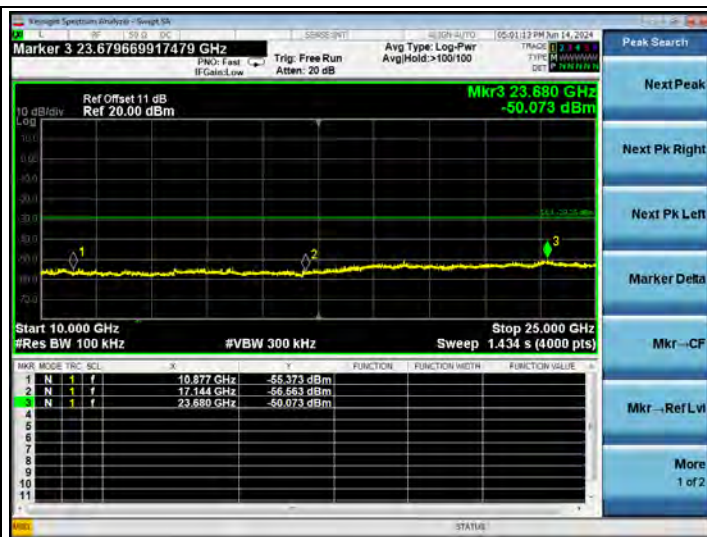
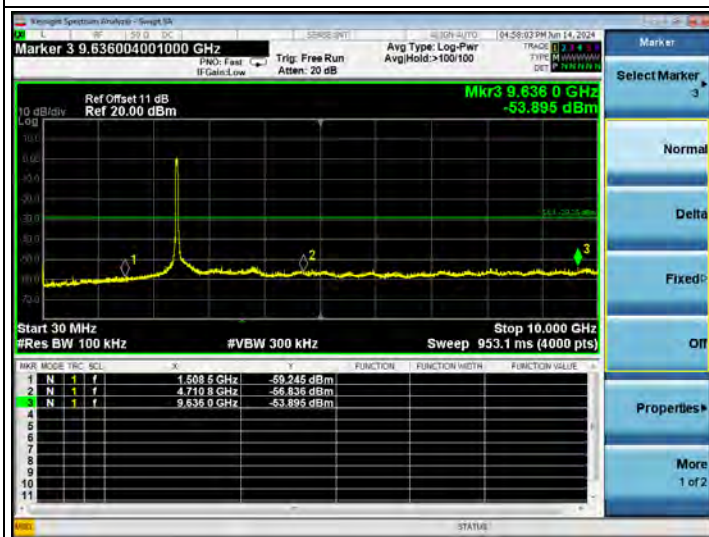
802.11n40

CH2437

Reference Level



Emission Level



802.11n40

CH2452

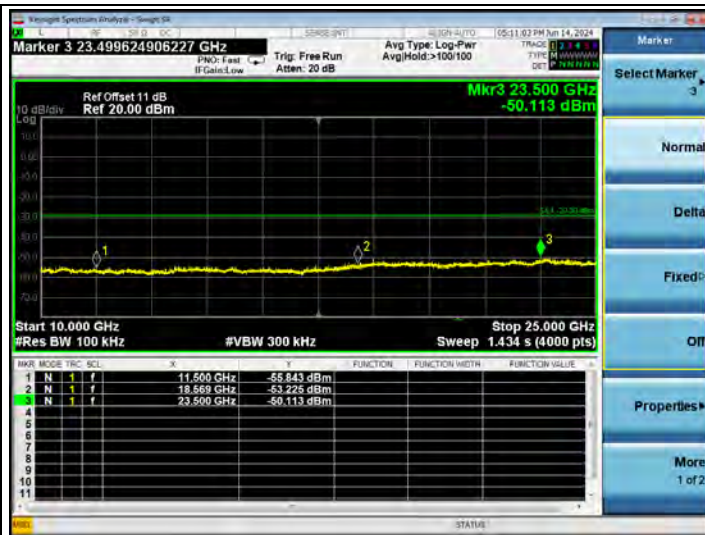
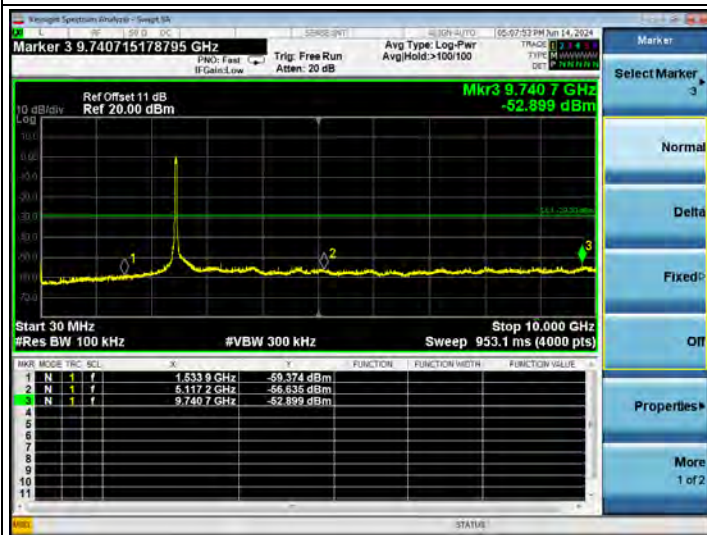
Reference Level



Higher Edge



Emission Level



9 POWER SPECTRAL DENSITY MEASUREMENT

9.1 Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	20 dB Attenuator	Mini-Circuits	BW-S20W2+	001	2023.09.21	1 Year

9.2 Block Diagram of Test Setup

The Same as section 5.2.

9.3 Specification Limits (§15.247(e))

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band. The same method of determining the conducted output power shall be used to determine the power spectral density.

9.4 Operating Condition of EUT

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

9.5 Test Procedure

The transmitter output was connected to the spectrum analyzer.

Method AVGPS-1 uses trace averaging with EUT transmitting at full power throughout each sweep.

The following procedure may be used when the maximum (average) conducted output power was used to determine compliance to the fundamental output power limit. This is the baseline method for determining the maximum (average) conducted PSD level. If the instrument has a power averaging (rms) detector, then it must be used; otherwise, use the sample detector. The EUT must be configured to transmit continuously ($D \geq 98\%$), or else sweep triggering/signal gating must be implemented to ensure that measurements are made only when the EUT is transmitting at its maximum power control level (no transmitter OFF time to be considered):

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to at least 1.5 times the OBW.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = power averaging (rms) or sample detector (when rms not available).
- Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
- Sweep time = auto couple.
- Employ trace averaging (rms) mode over a minimum of 100 traces.

- i) Use the peak marker function to determine the maximum amplitude level.
- j) If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

The test procedure is defined in ANSI C63.10-2013 (11.10.5 Measurement Procedure “Method AVGPSD-1” was used).

9.6 Test Results

PASSED.

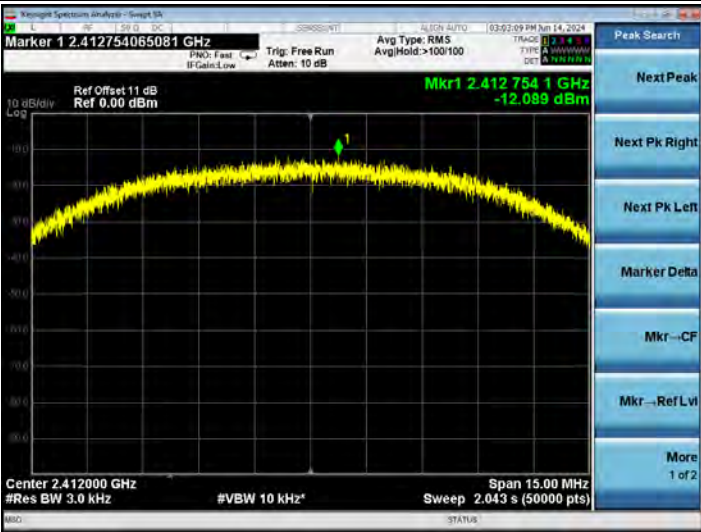
All the test results are attached in next pages.

(Test Date: 2024.06.14 Temperature: 23°C Humidity: 51 %)

Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11b	1	2412	-12.089	8 dBm
	6	2437	-12.321	8 dBm
	11	2462	-12.383	8 dBm
802.11g	1	2412	-14.871	8 dBm
	6	2437	-14.778	8 dBm
	11	2462	-12.493	8 dBm
802.11n20	1	2412	-14.343	8 dBm
	6	2437	-16.141	8 dBm
	11	2462	-16.554	8 dBm
802.11n40	3	2422	-14.192	8 dBm
	6	2437	-13.533	8 dBm
	9	2452	-13.172	8 dBm

802.11b

CH2412



CH2437

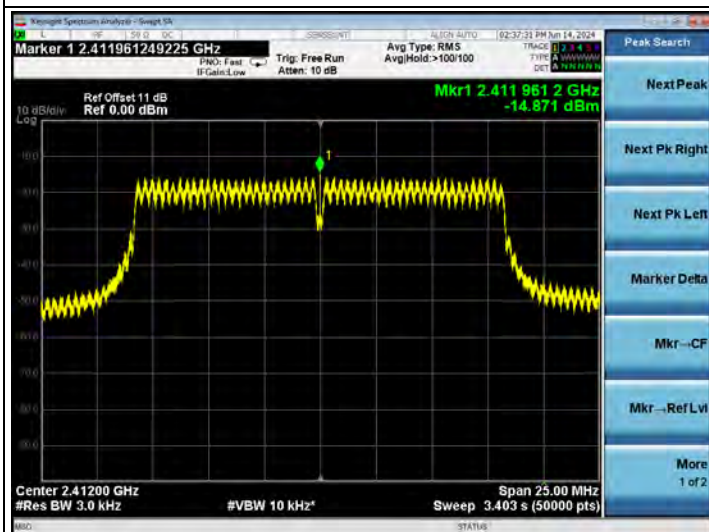


CH2462

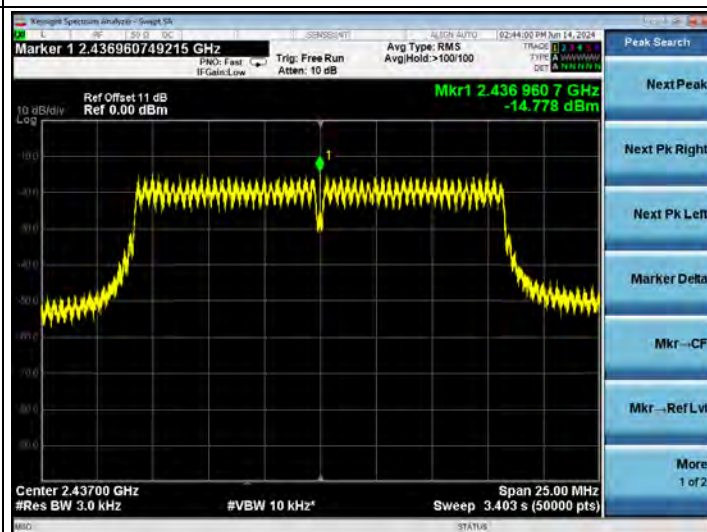


802.11g

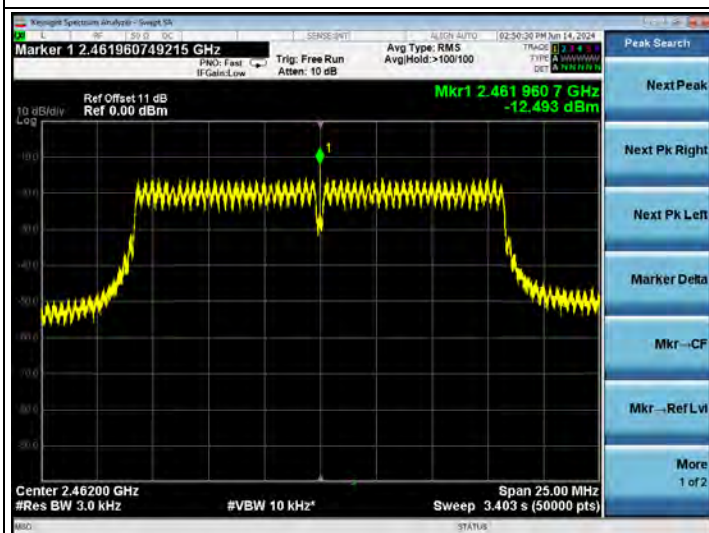
CH2412



CH2437

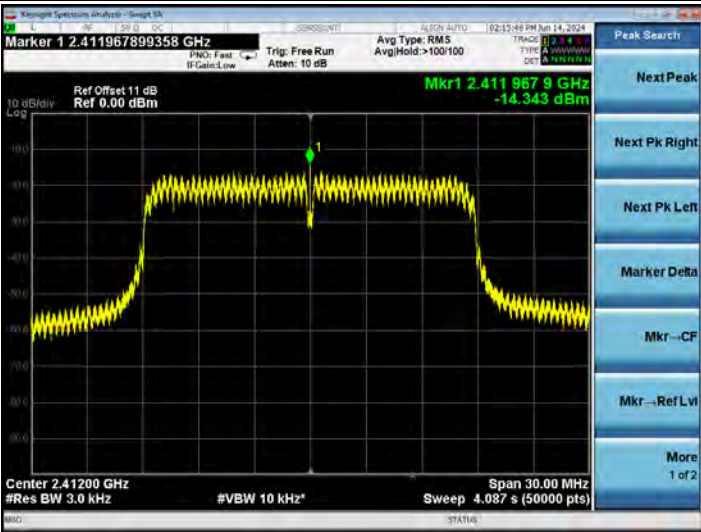


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802.11n20

CH2412



CH2437

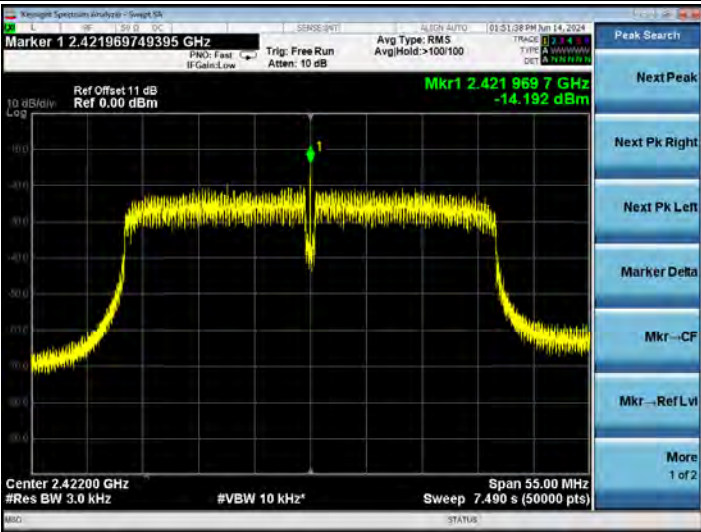


CH2462

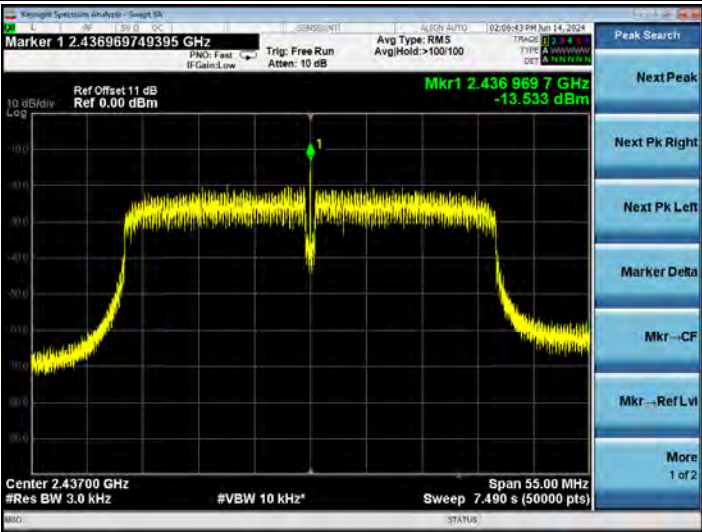


802.11n40

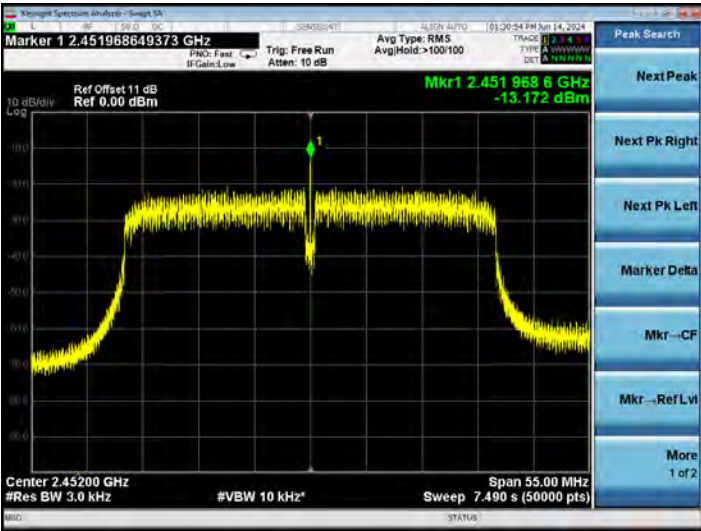
CH2422



CH2437



CH2452



10 ANTENNA REQUIREMENT

10.1 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.

10.2 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.

11 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 %