FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Funai Electric R & D (Shenzhen) Co., Ltd.

Wi-Fi Module

Model No.: U9W37

FCC ID: 2AU3BU9W37

Prepared for : Funai Electric R & D (Shenzhen) Co., Ltd.
B303 Technology Building II, 1057 Nanhai Road, Nanshan District, Shenzhen, China 518067

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Kefeng Road, Science & Technology Park,
Nanshan District , Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number	:	ACS-F23131
Date of Test	:	Jun.30 ~ Aug.03, 2023
Date of Report	:	Aug.22, 2023

TABLE OF CONTENTS

Description Page

1. SUMMARY OF STANDARDS AND RESULTS 5
1.1. Description of Standards and Results 5
2. GENERAL INFORMATION 6
2.1. Description of Equipment Under Test 6
2.2. Feature of Equipment Under Test 7
2.3. Tested Supporting System Details 8
2.4. Block diagram of connection between the EUT and simulators 8
2.5. Test Information 8
2.6. Test Facility 9
2.7. Measurement Uncertainty (95% confidence levels, k=2) 9
3. POWER LINE CONDUCTED EMISSION TEST 10
3.1. Test Equipments 10
3.2. Block Diagram of Test Setup 10
3.3. Power Line Conducted Emission Test Limits 10
3.4. Configuration of EUT on Test 10
3.5. Operating Condition of EUT 11
3.6. Test Procedure 11
3.7. Power Line Conducted Emission Test Results 11
4. RADIATED EMISSION TEST 14
4.1. Test Equipment 14
4.2. Block Diagram of Test Setup 15
4.3. Radiated Emission Limits 16
4.4. EUT Configuration on Test 16
4.5. Operating Condition of EUT 17
4.6. Test Procedure 17
4.7. Radiated Emission Test Results 17
5. CONDUCTED SPURIOUS EMISSIONS 94
5.1. Test Equipment 94
5.2. Limit 94
5.3. Test Procedure 94
5.4. Test result 94
6. BAND EDGE COMPLIANCE TEST 115
6.1. Test Equipment 115
6.2. Limit 115
6.3. Test Procedure 115
6.4. Test Results 115
7. 6DB BANDWIDTH TEST 148
7.1. Test Equipment 148
7.2. Limit 148
7.3. Test Procedure 148
7.4. Test Results 148
8. OUTPUT POWER TEST 153
8.1. Test Equipment 153
8.2. Limit (FCC Part 15C 15.247 b(3)) 153
8.3. Test Procedure 153

8.4. Test Results 154
9. POWER SPECTRAL DENSITY TEST 163
9.1. Test Equipment 163
9.2. Limit 163
9.3. Test Procedure 163
9.4. Test Results 164
10. ANTENNA REQUIREMENT 169
10.1. Standard Applicable 169
10.2. Antenna Connected Construction 169
11. DEVIATION TO TEST SPECIFICATIONS 170

Appendix A. Photograph of Test
Appendix B. Photo of the EUT

TEST REPORT

Applicant : Funai Electric R & D (Shenzhen) Co., Ltd.

Manufacturer : Funai Electric R & D (Shenzhen) Co., Ltd.

Product : Wi-Fi Module

FCC ID : 2AU3BU9W37

(A) Model No. : U9W37
(B) Test Voltage : DC 3.3V From PC Input AC 120V/60Hz

Tested for comply with:
FCC CFR 47 Part 15 Subpart C

Test procedure used:
ANSI C63.10: 2020
KDB 558074 D01v05

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to single evaluation of one sample of above mentioned product and shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd..

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.

Date of Test : Jun.30 ~ Aug.03, 2023 Report of date: Aug.22, 2023

Prepared by : Jasmine Ning / Assistant Reviewed by : Thomas Chen / Assistant Manager

AUDIX® 信華科技（深圳）有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章
Stamp only for EMC Dept. Report

Approved & Authorized Signer : Signature: Sunny Lu / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT has been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	**Standard**	**Results**
Power Line Conducted Emission	FCC Part 15: 15.207	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.205	PASS
Band Edge Compliance	FCC Part 15: 15.247(d)	PASS
Conducted spurious emissions	FCC Part 15: 15.247(d)	PASS
6dB Bandwidth	FCC Part 15: 15.247(a)(2)	PASS
Peak Output Power	FCC Part 15: 15.247(b)(3)	PASS
Power Spectral Density	FCC Part 15: 15.247(e)	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
Note: Measurement uncertainty affection to the result is considered, the EUT is technically compliant with standard requirements.		

2. GENERAL INFORMATION

2.1.Description of Equipment Under Test

Applicant	Funai Electric R & D (Shenzhen) Co., Ltd.
Applicant Address	B303 Technology Building II, 1057 Nanhai Road, Nanshan District, Shenzhen, China 518067
Manufacturer	Funai Electric R & D (Shenzhen) Co., Ltd.
Manufacturer Address	B303 Technology Building II, 1057 Nanhai Road, Nanshan District, Shenzhen, China 518067
Factory	Funai (Thailand) Company Limited
Factory Address	835 Moo18, Pakchong-Lumsompung Road, Tambon, Chantuek, Amphur Pakchong, Nakhon Ratchasima 30130, Thailand
Product	Wi-Fi Module
Model No.	U9W37
FCC ID	2AU3BU9W37
Sample Type	Prototype production
Date of Receipt	Jun.25,2023
Date of Test	Jun.30 ~ Aug.03, 2023
Remark: This report only for WIFI 2.4GHz.	

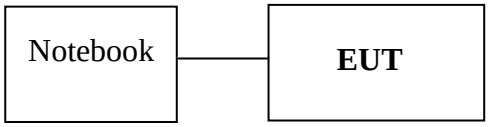
2.2.Feature of Equipment Under Test

Product Feature & Specification		
Product	Wi-Fi Module	
Model No.	U9W37	
Radio	IEEE802.11 a/b/g/n/ac	
Power Source	☐ Commercial Power	AC 100~240 V
	☒ External Power Source	DC 3.3V
	☐ Li-ion Battery	DC V
	☐ UM battery	DC V
2.4GHz Wi-Fi		
Support Modes	802.11b/g/n20/n40/	
Frequency Range	2412-2462MHz	
Type of Modulation	802.11b(DSSS): CCK, QPSK, BPSK; 802.11g/n(OFDM): 64QAM,16QAM, QPSK, BPSK	
Data Rate	802.11b: 1/2/5.5/11 Mbps; 802.11g: 6/9/12/18/24/36/48/54 Mbps; 802.11n: up to 300Mbps	
Channel Separation	5MHz	
5GHz Wi-Fi		
Support Modes	802.11a/n20/n40/ac20/ac40/ac80	
Frequency Range	5180-5240MHz, 5260-5320MHz, 5500-5700MHz, 5745-5825MHz	
Type of Modulation	802.11a/n (OFDM): QPSK, BPSK, 16QAM, 64QAM 802.11ac (OFDM): QPSK, BPSK, 16QAM, 64QAM,256QAM	
Data Rate	802.11a: 6/9/12/18/24/36/48/54 Mbps; 802.11n: up to 300Mbps; 802.11ac: up to 867Mbps	
Channel Separation	5MHz	
Antenna System		
Type of Antenna	ANTA: monopole Antenna ANTB: External Metal Antenna	
Antenna Peak Gain	DTS Band (2400-2483.5MHz) Peak Gain: ANTA: -0.74; ANTB: -2.80dBi; U-NII-1 Band(5150-5250MHz) Peak Gain: ANTA: 2.56dBi; ANTB: -4.67dBi; U-NII-2A Band(5250-5350MHz) Peak Gain: ANTA: 1.82dBi; ANTB: -0.16dBi; U-NII-2C Band(5470-5725MHz) Peak Gain: ANTA: 3.14dBi; ANTB: 0.09dBi; U-NII-3 Band (5725-5850MHz) Peak Gain: ANTA: 0.39dBi; ANTB:-4.36dBi	

2.3.Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Notebook	N/A	acer	ZOW	NVX7C
		USB Cable: Shielded, Detachable, 1.0m			

2.4.Block diagram of connection between the EUT and simulators



(EUT: Wi-Fi Module)

2.5.Test Information

A special test software (MT7663 QA 0.0.2.6) was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information					
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)	Power Setting	
				ANTA	ANTB
IEEE 802.11b	1	Low :CH1	2412	23	23
	1	Middle: CH6	2437	23	23
	1	High: CH11	2462	23	23
IEEE 802.11g	6	Low :CH1	2412	23	23
	6	Middle: CH6	2437	23	23
	6	High: CH11	2462	23	23
IEEE 802.11n HT20	MCS0	Low :CH1	2412	23	23
	MCS0	Middle: CH6	2437	23	23
	MCS0	High: CH11	2462	23	23
IEEE 802.11n HT40	MCS0	Low :CH3	2422	23	23
	MCS0	Middle: CH6	2437	23	23
	MCS0	High: CH9	2452	23	23

Note: 1. According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

Note: 2. This device support MIMO & SISO, after evaluated output power, we found that MOMO power have the worst emissions than SISO, so the other test items are reported with MIMO mode. Test compliance with KDB 662911 D01 Multiple Transmitter Output v02r01.

2.6. Test Facility

Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Kefeng Road, Science & Technology Park, Nanshan District , Shenzhen, Guangdong, China
EMC Lab.	:	Certificated by ISED, Canada Company Number: 5183A CAB identifier: CN0034 Valid Date: Mar.31, 2024
	:	Certificated by FCC, USA Designation No.: CN5022 Valid Date: Mar.31, 2024
	:	Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2024

2.7.Measurement Uncertainty (95% confidence levels, k=2)

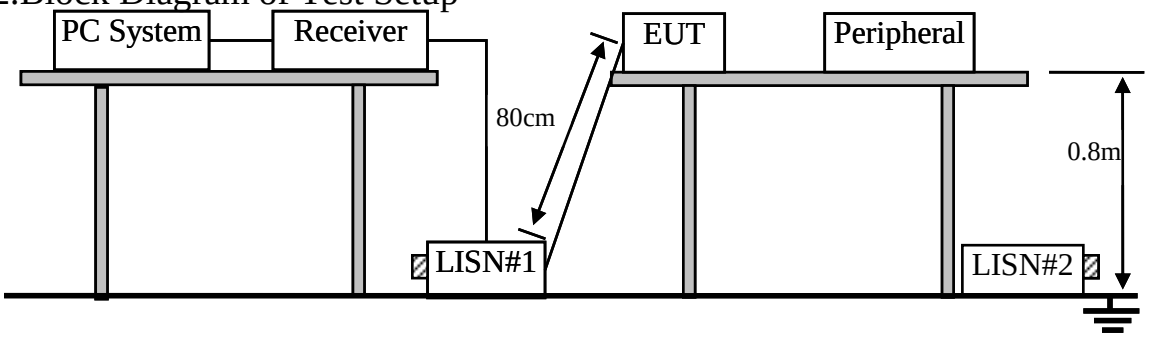
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	±2.6dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	±3.8dB(30~200MHz, Polarization: H)
	±3.8dB(30~200MHz, Polarization: V)
	±4.0dB(200M~1GHz, Polarization: H)
	±4.0dB(200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber(1GHz-25GHz)	±4.0dB(1~6GHz, Distance: 3m)
	±4.0dB(6~25GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	±3.7dB(30MHz~1000MHz)
	±3.3dB(1~26.5GHz)
Uncertainty for Conduction Spurious emission test	±2.0dB
Uncertainty for Output power test	±0.8dB
Uncertainty for Bandwidth test	±4.6%
Uncertainty for DC power test	±0.1%
Uncertainty for test site temperature and humidity	±0.6℃
	±3%

3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Nov.09,22	5 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100842	Apr.01,23	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ENV216	102160	Oct.08,22	1 Year
4.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1628-5	Apr.01,23	1 Year
5.	RF Cable	Eastsheep	RG223	190424	Oct.08,22	1 Year
6.	Terminator	Hubersuhner	50Ω	No.1	Apr.02,23	1 Year
7.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

3.2.Block Diagram of Test Setup



:50Ω Terminator

3.3.Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.
3. Emission Level (dBμV) = Factor (L.I.S.N.) (dB) + Cable Loss (dB)+Reading (Receiver) (dBμV)

3.4.Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Wi-Fi Module (EUT)

Model No. : U9W37
Serial No. : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.3.

3.5.Operating Condition of EUT

3.5.1. Setup the EUT as shown as Section 3.2.

3.5.2. Turn on the power of EUT.

3.5.3. PC run test software to control EUT work in Tx mode.

3.6.Test Procedure

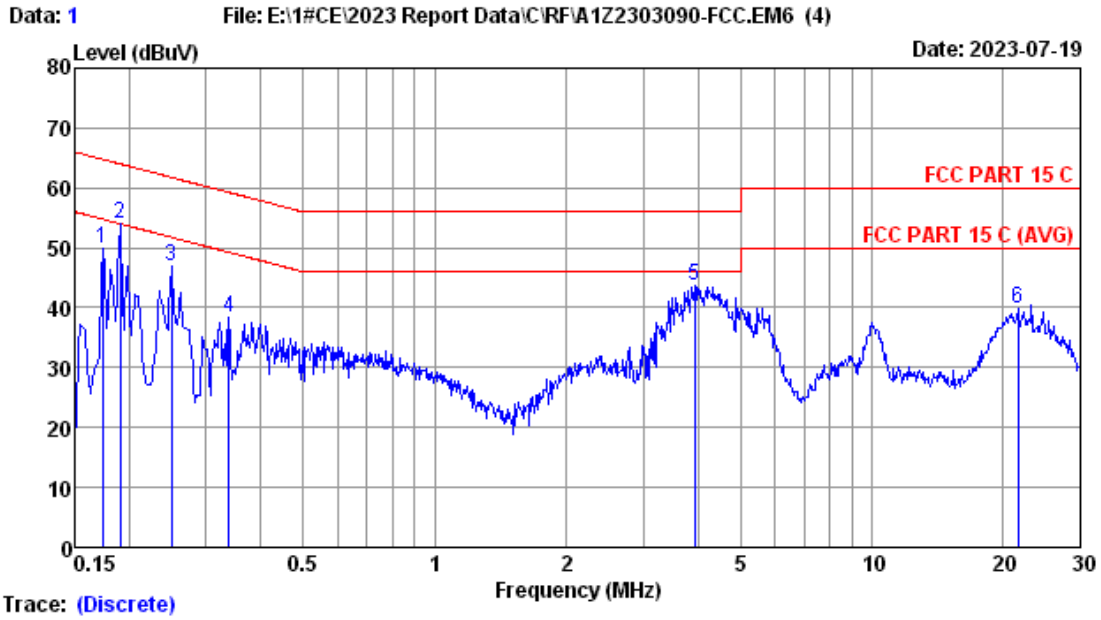
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via AC unit connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2020 on Conducted Emission Test.

The bandwidth of test receiver is set at 9kHz.

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

3.7.Power Line Conducted Emission Test Results

PASS. **(**All emissions not reported below are too low against the prescribed limits.)

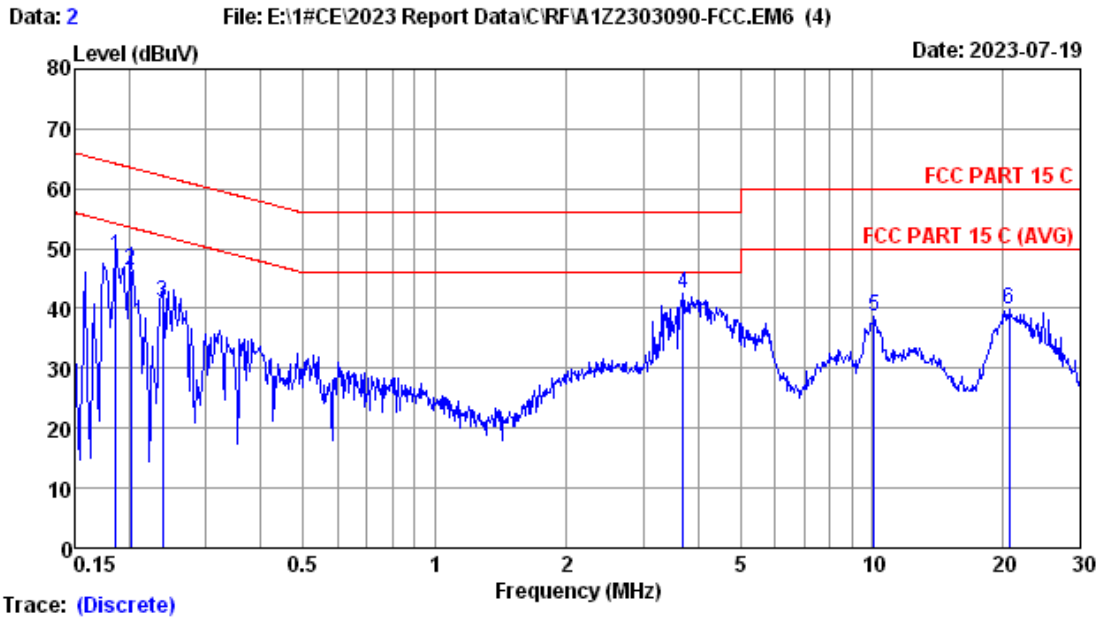


Site no :1# CE
Dis./Lisn :2023 ENV216-L
Limit :FCC PART 15 C
Env./Ins. :23.6*C/50%
Power Rating :AC 120V/60Hz
Test Mode :2.4G TX Mode

Data No :1
Engineer :Sucy

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.174	9.62	0.01	40.29	49.92	64.77	14.85	QP
2	0.190	9.62	0.01	44.46	54.09	64.02	9.93	QP
3	0.249	9.61	0.01	37.44	47.06	61.78	14.72	QP
4	0.337	9.60	0.01	28.80	38.41	59.27	20.86	QP
5	3.922	9.77	0.03	33.75	43.55	56.00	12.45	QP
6	21.600	9.96	0.10	29.74	39.80	60.00	20.20	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# CE
Dis./Lisn :2023 ENV216-N
Limit :FCC PART 15 C
Env./Ins. :23.6*C/50%
Power Rating :AC 120V/60Hz
Test Mode :2.4G TX Mode

Data No :2
Engineer :Sucy

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.186	9.70	0.01	38.90	48.61	64.21	15.60	QP
2	0.202	9.70	0.01	36.50	46.21	63.53	17.32	QP
3	0.238	9.70	0.01	31.40	41.11	62.17	21.06	QP
4	3.700	9.29	0.03	33.15	42.47	56.00	13.53	QP
5	10.125	8.87	0.06	29.61	38.54	60.00	21.46	QP
6	20.594	8.70	0.10	30.97	39.77	60.00	20.23	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1.Test Equipment

4.1.1. For frequency range 30MHz~1000MHz (In 3m Anechoic Chamber)

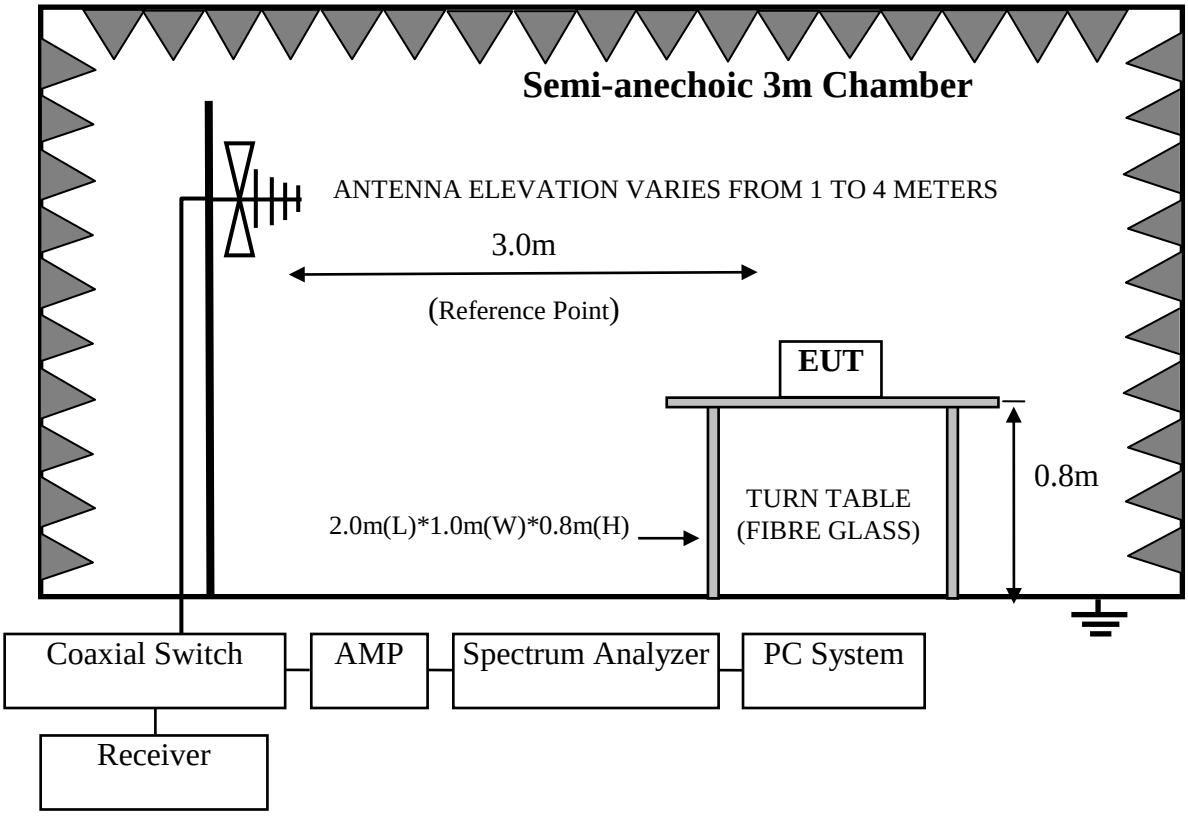
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3m Chamber(NSA)	AUDIX	N/A	N/A	Aug.11,22	5 Year
2.	3m Chamber(SE)	AUDIX	N/A	N/A	Sep.16,22	5 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	103670	Jun.25,23	1 Year
4.	Tri-log-Broadband Antenna	SCHWARZBECK	VULB 9168	01317	Oct.28,22	1 Year
5.	NSA Cable	HUBER+SUHNER	CFD400NL-LW	No.3	Oct.09,22	1 Year
6.	Coaxial Switch	Anritsu	MP59B	6201397223	Apr.02,23	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESR3	101931	Apr.01,23	1 Year
8.	Amplifier	HP	8447D	2944A11159	Apr.02,23	1 Year
9.	Test Software	AUDIX	e3	6.100913a	N/A	N/A
Note: N/A means Not applicable.						

4.1.2. For frequency range 1GHz~25GHz (In 3m Anechoic Chamber)

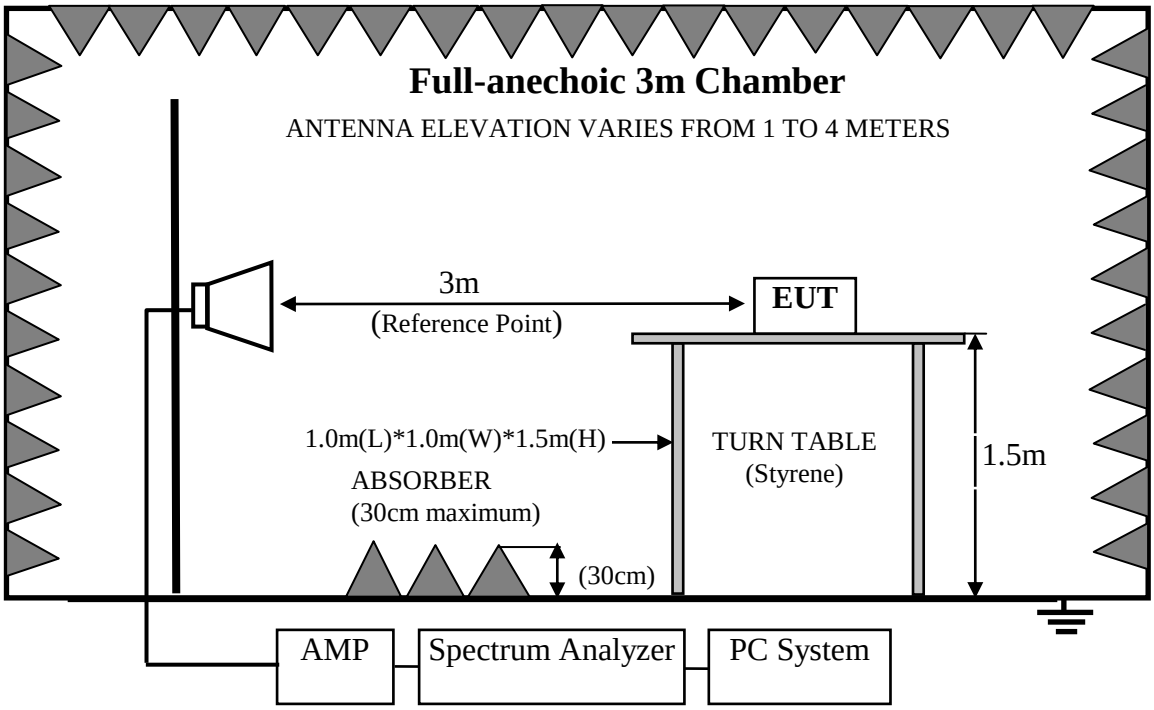
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3mChamber(Svswr)	AUDIX	N/A	N/A	Aug.09,22	5 Year
2.	3mChamber(SE)	AUDIX	N/A	N/A	Sep.16,22	5 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Apr.01,23	1 Year
4.	Amplifier	Agilent	83017A	MY53270084	Oct.09,22	1 Year
5.	RF Cable	EMCI	EMC104-SM-SM-15000	190407	Jun.25,23	1 Year
6.	Test Software	AUDIX	e3	6.100913a	N/A	N/A
7.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	Aug.12,22	1 Year
Note: N/A means Not applicable.						

4.2.Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.3.Radiated Emission Limits

4.3.1. 15.247&209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark： (1) Emission Level (dBμV/m) = Reading (Receiver) (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB)
Emission Level (dBμV/m) = Reading (Spectrum) (dBμV) + Antenna Factor (dB/m) – Amp Factor (dB) + Cable Loss (dB)(above 1000MHz)
(2) The smaller limit shall apply at the cross point between two frequency bands.
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3.2. 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

4.4.1. Wi-Fi Module (EUT)

Model No. : U9W37
Serial No. : N/A

4.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.3.

4.5.Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turn on the power of all equipments.

4.5.3. Let EUT work in Tx(WiFi 2.4GHz) mode

4.6.Test Procedure

Frequency below 30MHz:
The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2020 regulation.

Frequency above 30MHz:
EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)*2.4m(W)*0.3m(H) on the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it.EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horm antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna are set on test.

This test was performed with EUT in X, Y, Z position, and the worse case was found wand reported.

The bandwidth of the EMI test receiver (R&S ESR7) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7.Radiated Emission Test Results

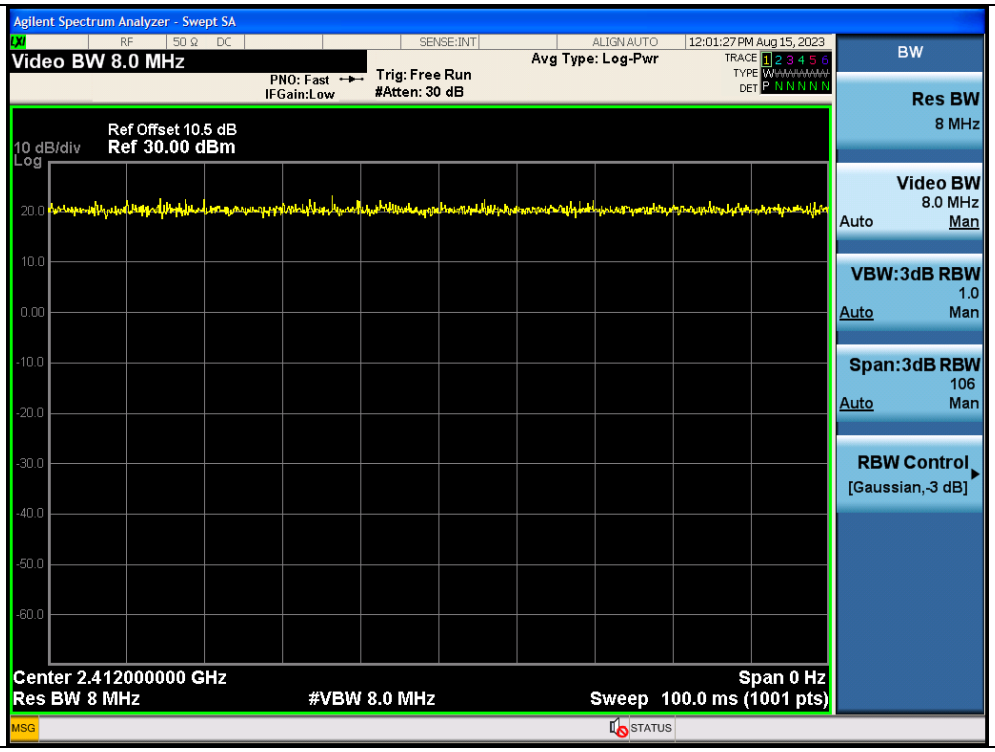
PASS.

All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Note 1: For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
Note 2: The emissions (9kHz~30MHz) not reported for there is no emission be found.

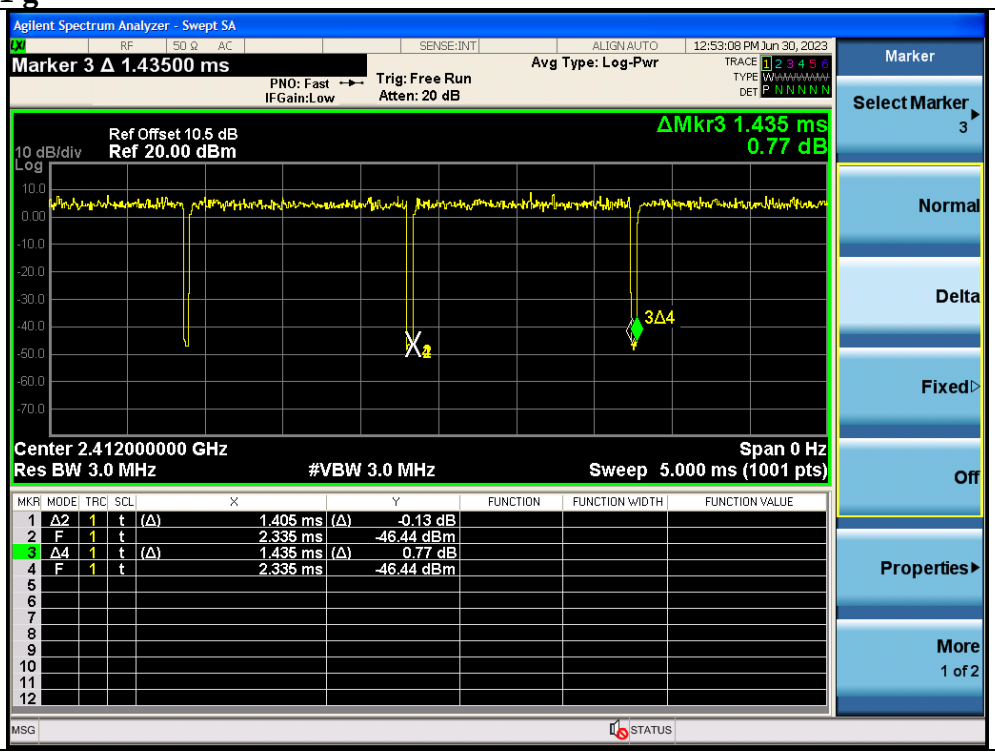
Duty cycle

11 b



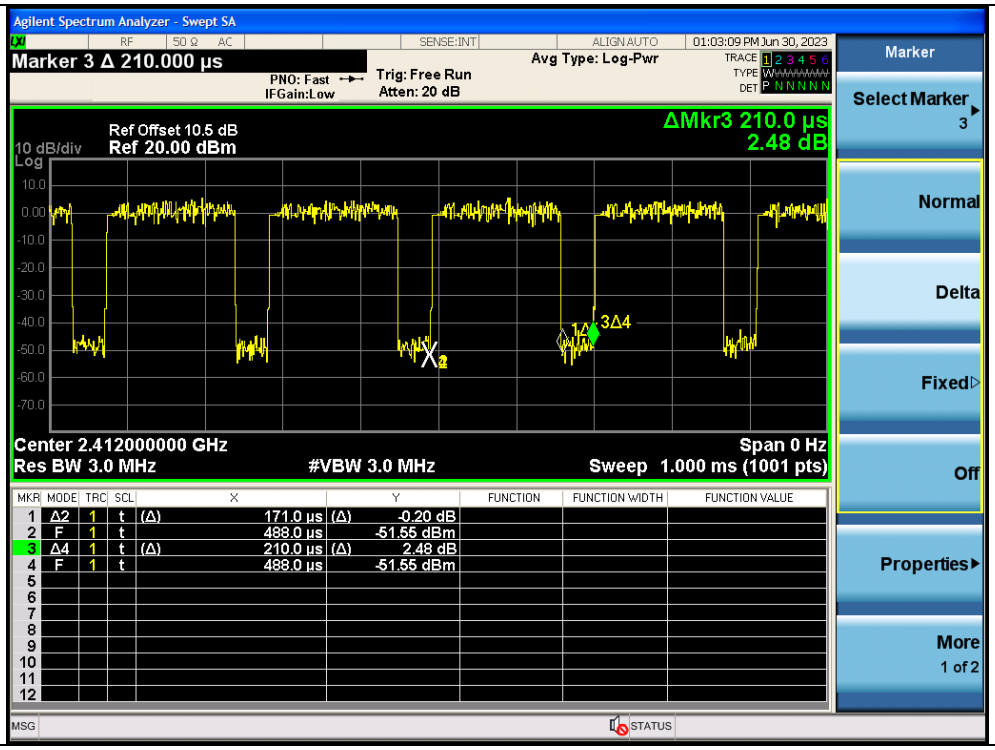
Note: The duty cycle factor is 0.

11 g



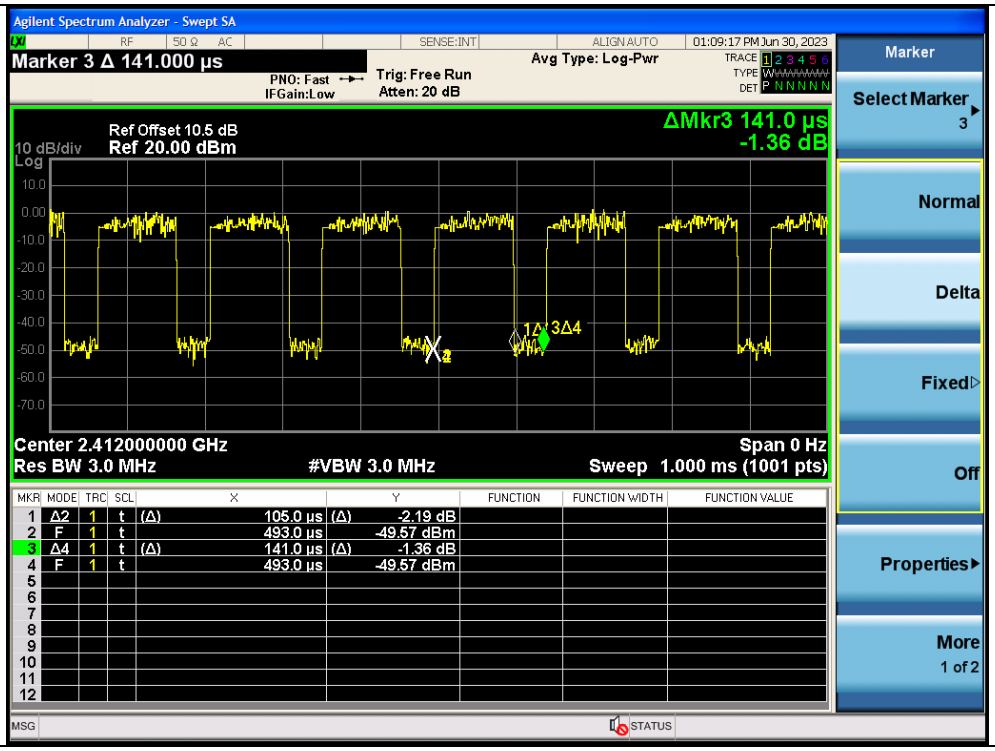
Note: The duty cycle factor is 0.092.

11n HT20



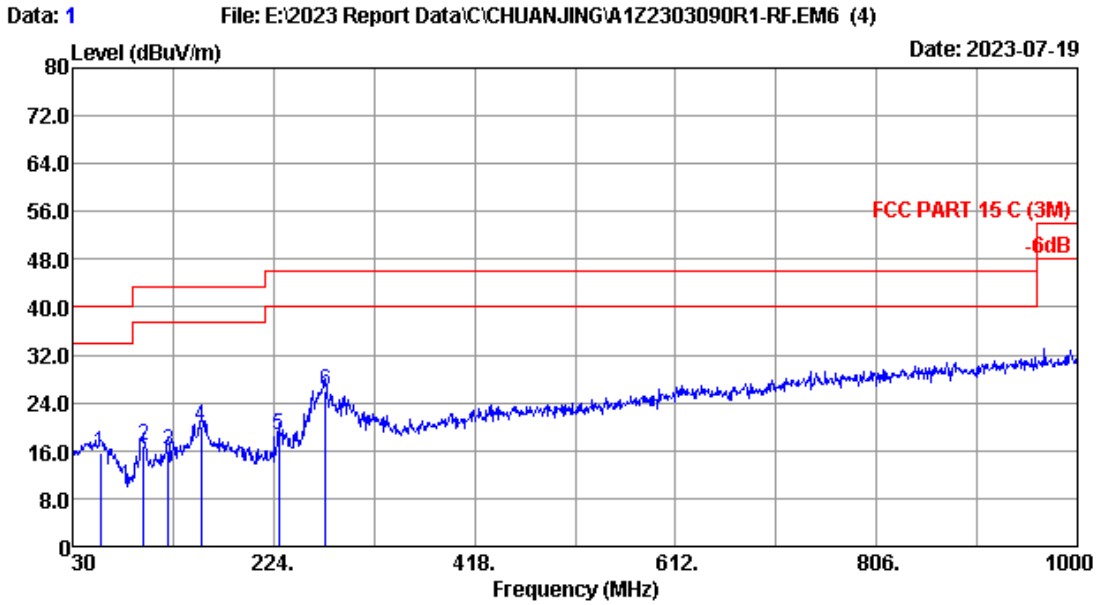
Note: The duty cycle factor is 0.89.

11n HT40



Note: The duty cycle factor is 1.28.

Frequency: 30MHz~1GHz

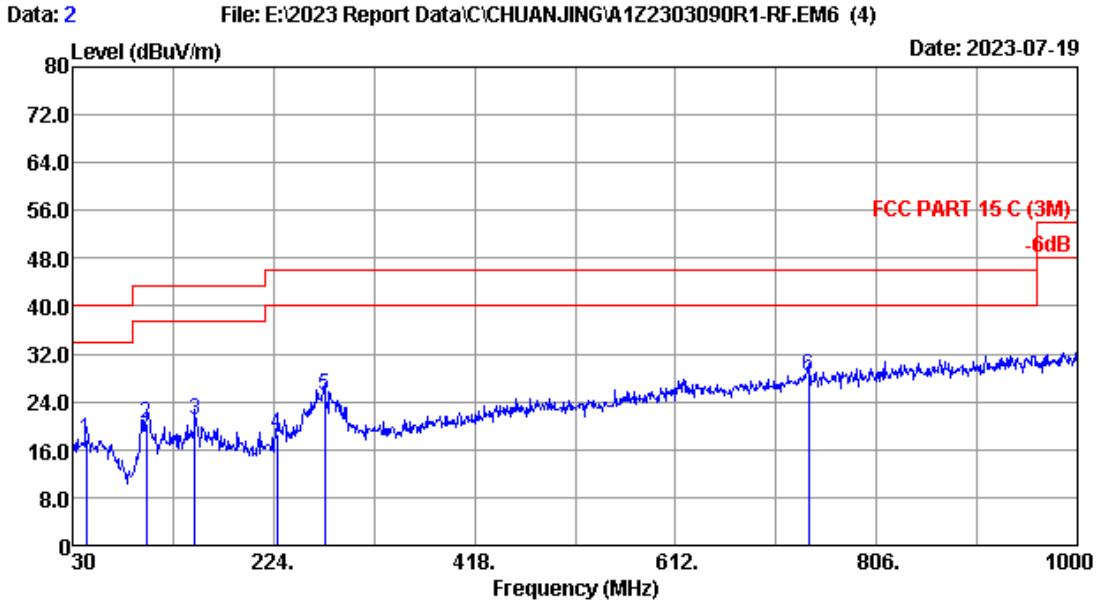


Site no. : 3m Chamber
Dis. / Ant. : 3m 2022 VULB 9168-01317
Limit : FCC PART 15 C (3M)
Env. / Ins. : 23.6*C55%
Test Mode : WIFI 2.4G TX Mode

Data no. : 1
Ant. pol. : HORIZONTAL
Engineer : Abel

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	57.160	19.40	0.76	-4.47	15.69	40.00	24.31	QP
2	98.870	14.80	1.01	1.00	16.81	43.50	26.69	QP
3	122.150	17.00	1.11	-2.16	15.95	43.50	27.55	QP
4	154.160	19.50	1.24	-0.73	20.01	43.50	23.49	QP
5	228.850	16.14	1.52	1.06	18.72	46.00	27.28	QP
6	274.440	18.75	1.69	5.57	26.01	46.00	19.99	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

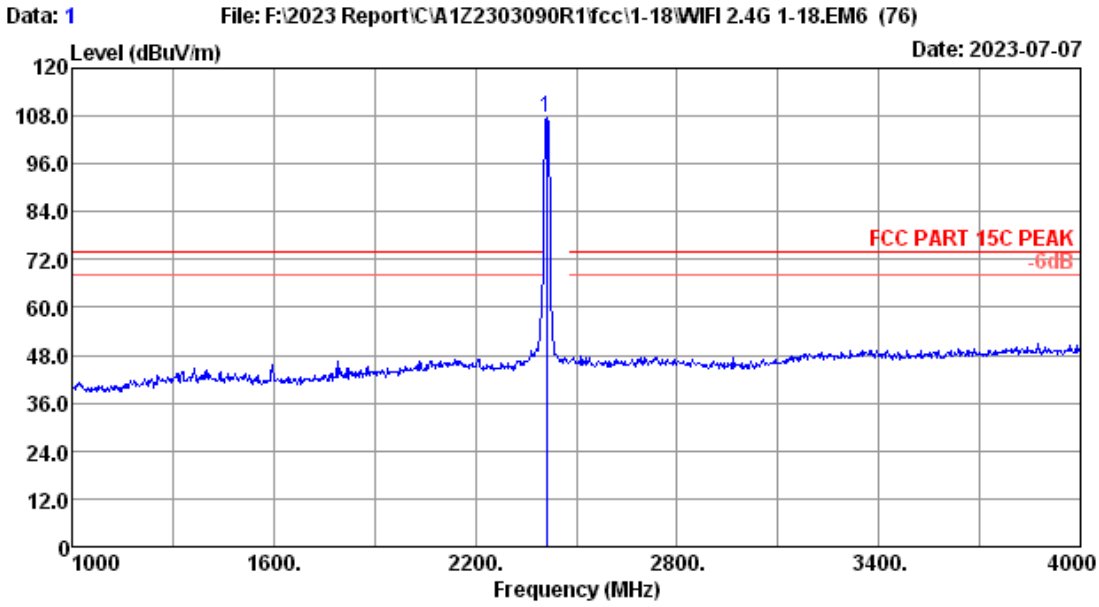


Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2022 VULB 9168-01317 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 23.6*C55% Engineer : Abel
Test Mode : WIFI 2.4G TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	43.580	19.60	0.66	-2.52	17.74	40.00	22.26	QP
2	100.810	15.00	1.01	4.32	20.33	43.50	23.17	QP
3	148.340	19.30	1.22	0.31	20.83	43.50	22.67	QP
4	226.910	15.82	1.51	1.33	18.66	46.00	27.34	QP
5	273.470	18.70	1.69	4.79	25.18	46.00	20.82	QP
6	740.040	27.70	3.00	-2.39	28.31	46.00	17.69	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

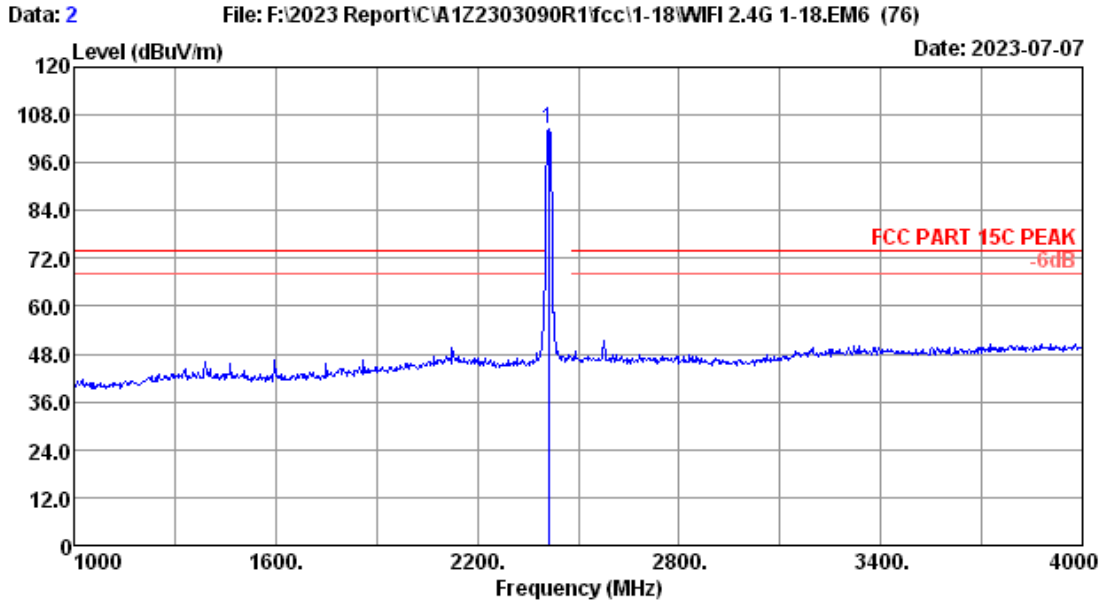
Frequency: 1GHz~18GHz




```
Site no.      : 3m Chamber                    Data no.   : 1
Dis. / Ant.   : 3m   2022 MCTD1209-3006       Ant. pol.  : HORIZONTAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : 23.2*C/52.5%                  Engineer   : nier
Test Mode     : Wifi2.4G 11b 2412MHz TX
                :
                :
```

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.73	4.87	34.36	109.37	107.61	------	------	Peak

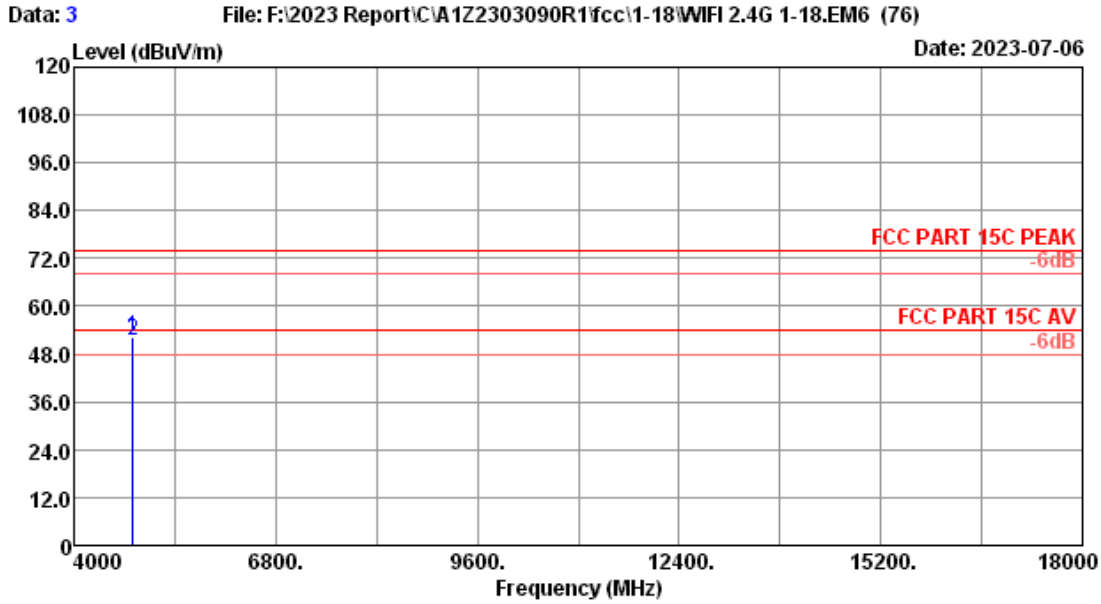
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11b 2412MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.73	4.87	34.36	106.09	104.33	------	------	Peak

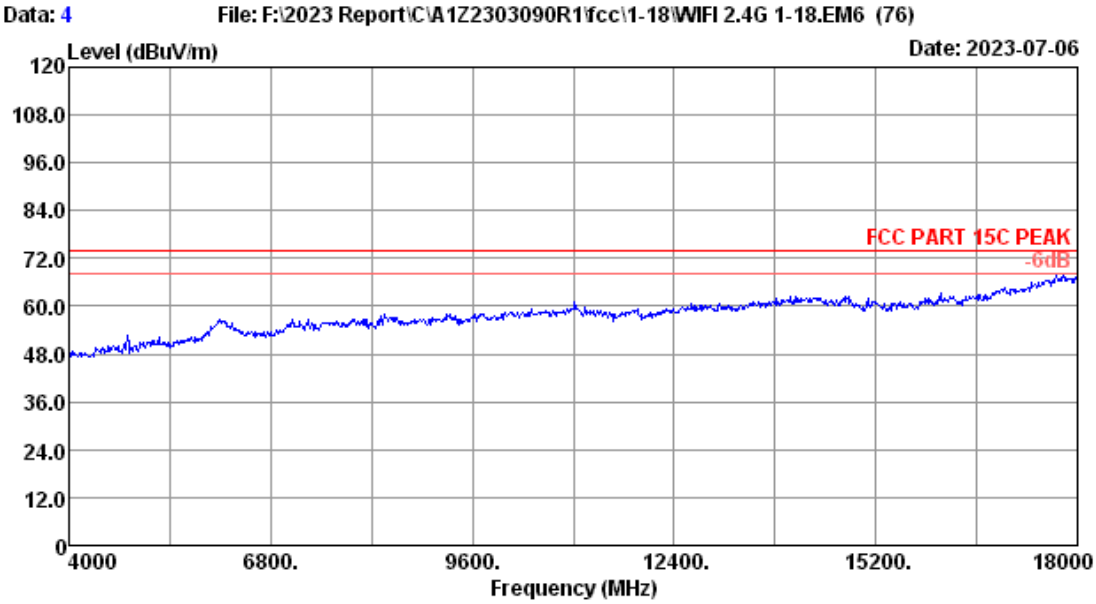
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



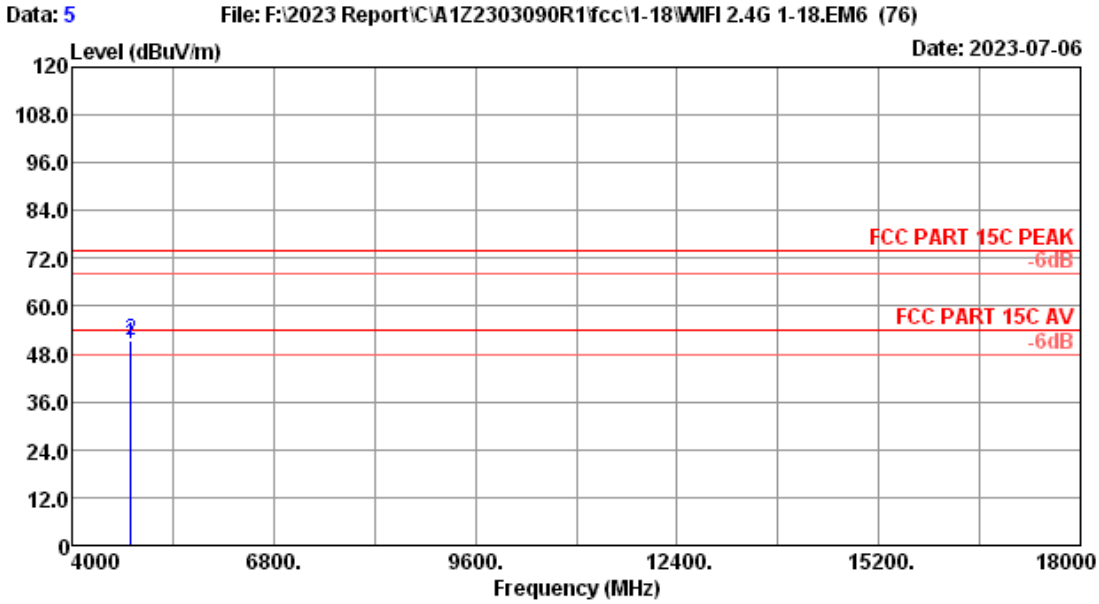
Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11b 2412MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	31.25	6.51	33.68	48.00	52.08	54.00	1.92	Average
2	4824.00	31.25	6.51	33.68	47.45	51.53	74.00	22.47	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 4
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11b 2412MHz TX		
	:		
	:		

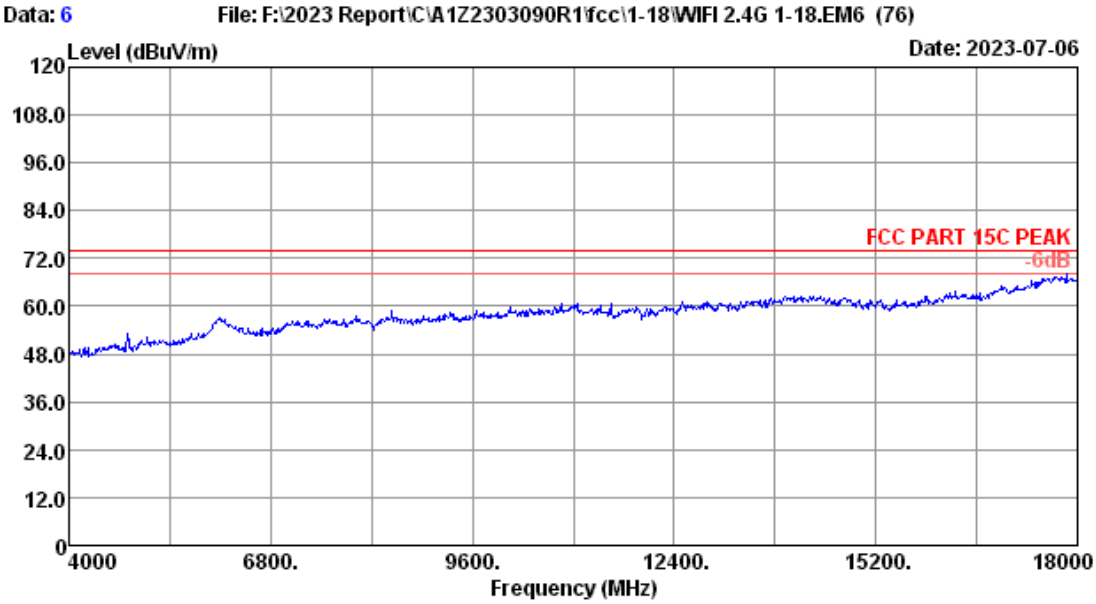


Site no. : 3m Chamber
Dis. / Ant. : 3m 2022 MCTD1209-3006
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5%
Test Mode : Wifi2.4G 11b 2412MHz TX
:
:

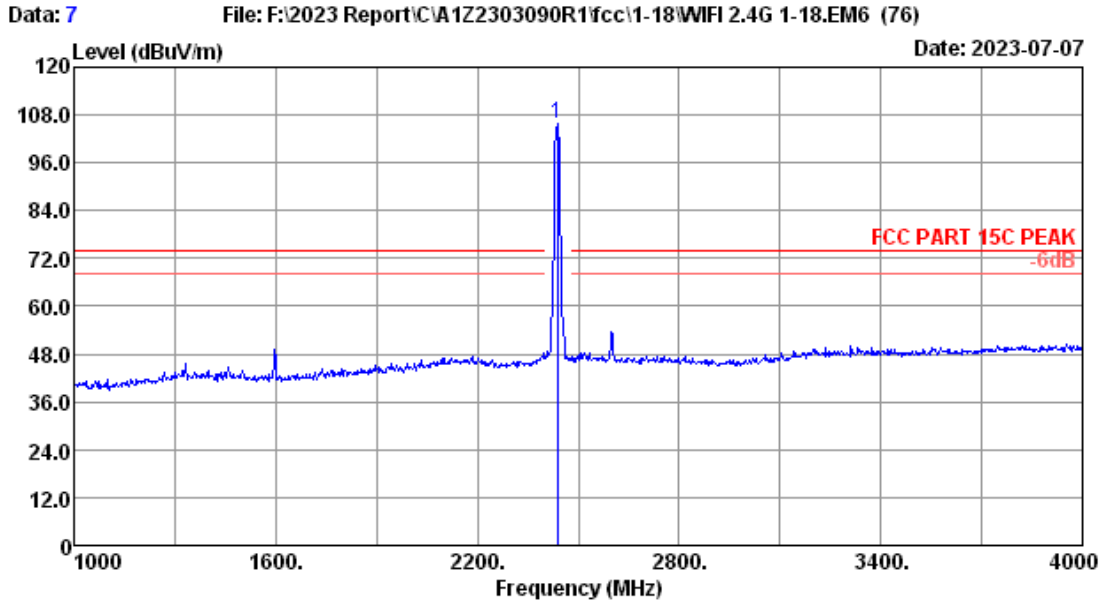
Data no. : 5
Ant. pol. : HORIZONTAL
Engineer : nier

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	31.25	6.51	33.68	46.25	50.33	54.00	3.67	Average
2	4824.00	31.25	6.51	33.68	47.39	51.47	74.00	22.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



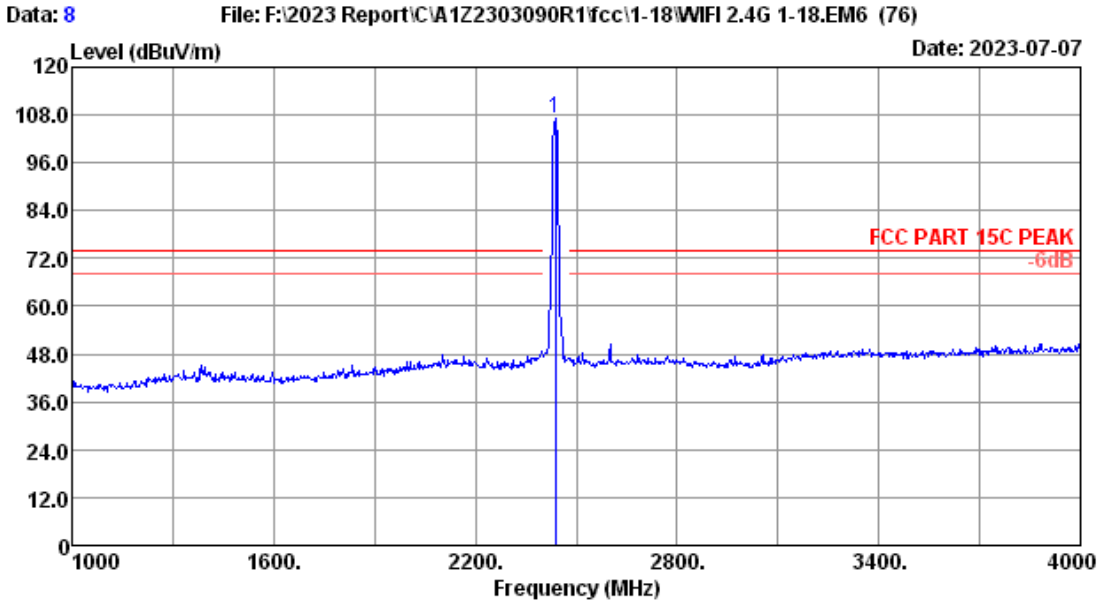
Site no.	: 3m Chamber	Data no.	: 6
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11b 2412MHz TX		
	:		
	:		



Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11b 2437MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.80	4.89	34.36	107.49	105.82	------	------	Peak

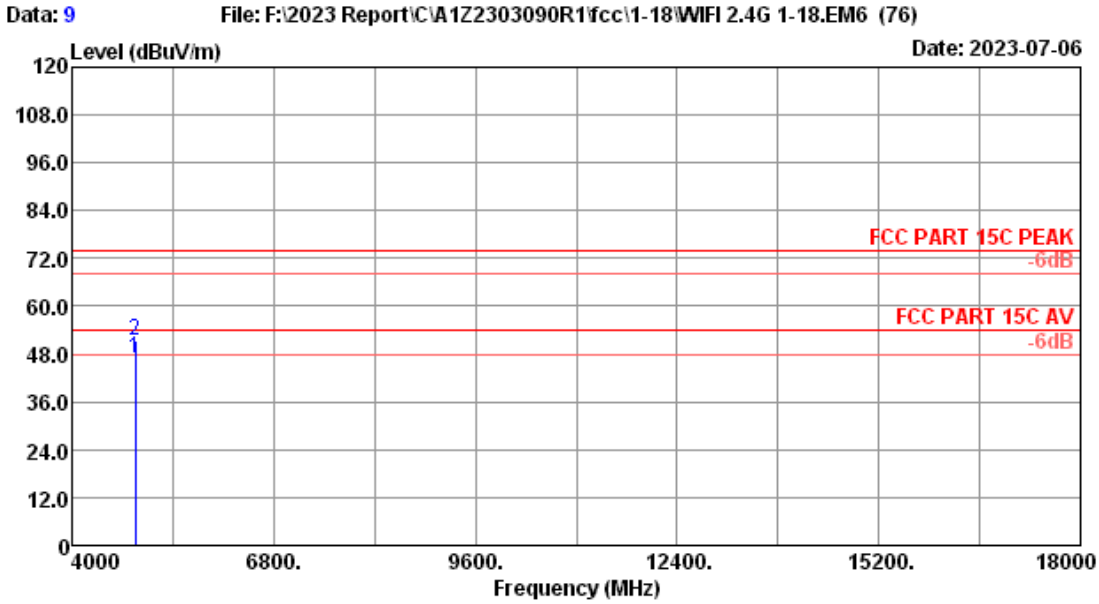
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11b 2437MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.80	4.89	34.36	108.76	107.09	------	------	Peak

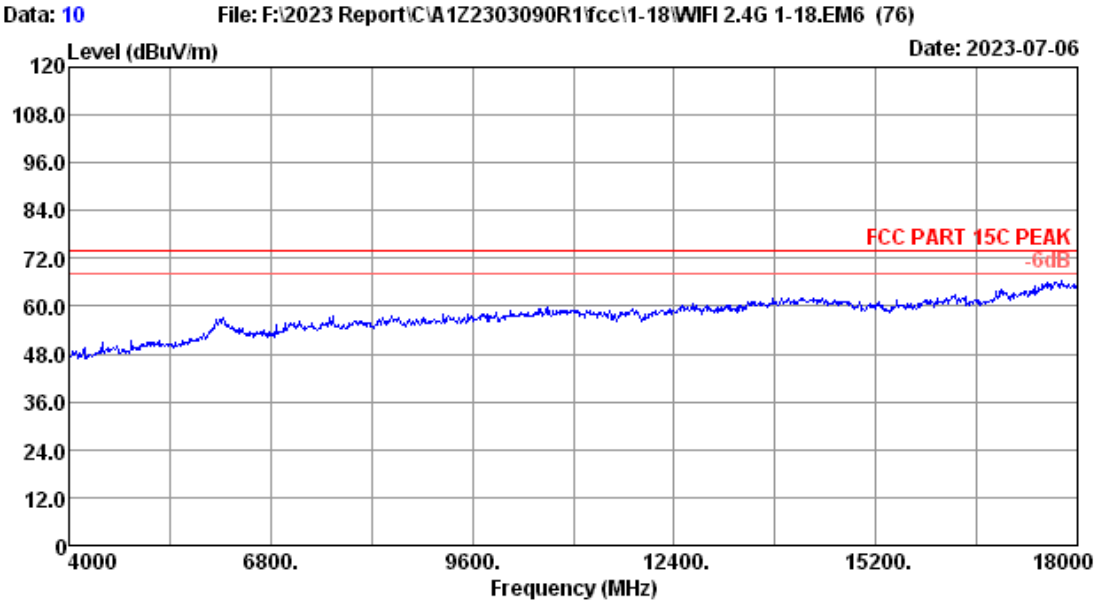
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



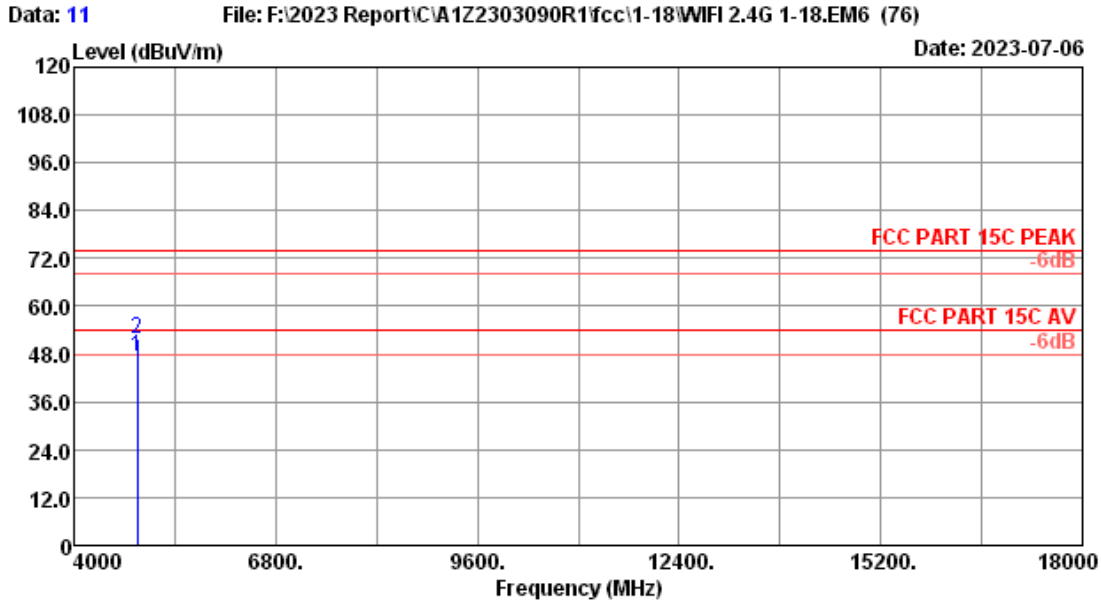
Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11b 2437MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	31.43	6.54	33.69	42.66	46.94	54.00	7.06	Average
2	4874.00	31.43	6.54	33.69	47.23	51.51	74.00	22.49	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 10
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11b 2437MHz TX		
	:		
	:		

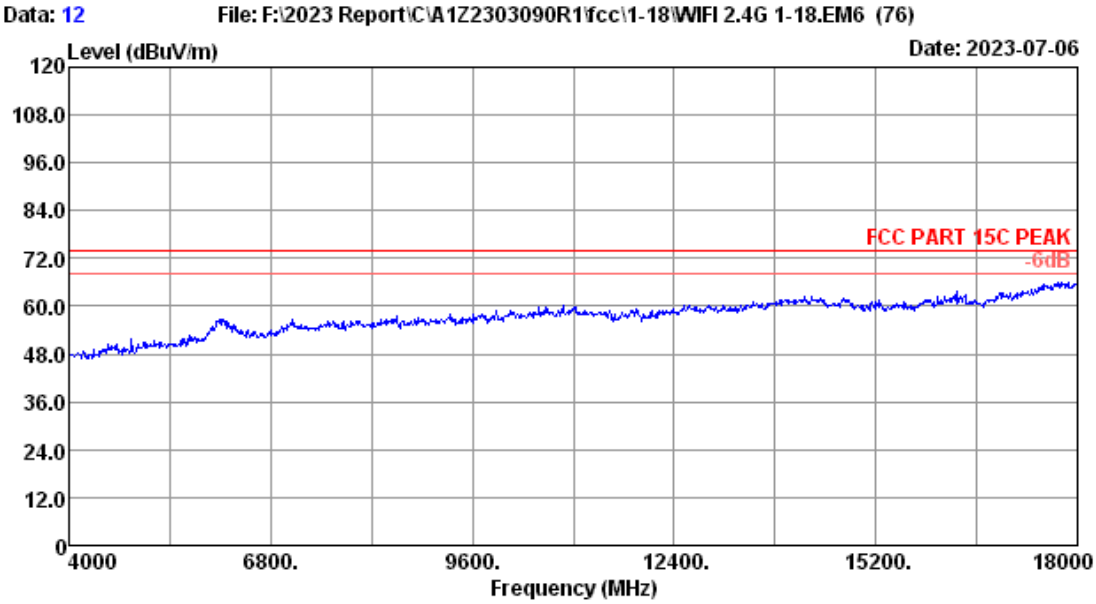


Site no. : 3m Chamber
Dis. / Ant. : 3m 2022 MCTD1209-3006
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5%
Test Mode : Wifi2.4G 11b 2437MHz TX
:
:

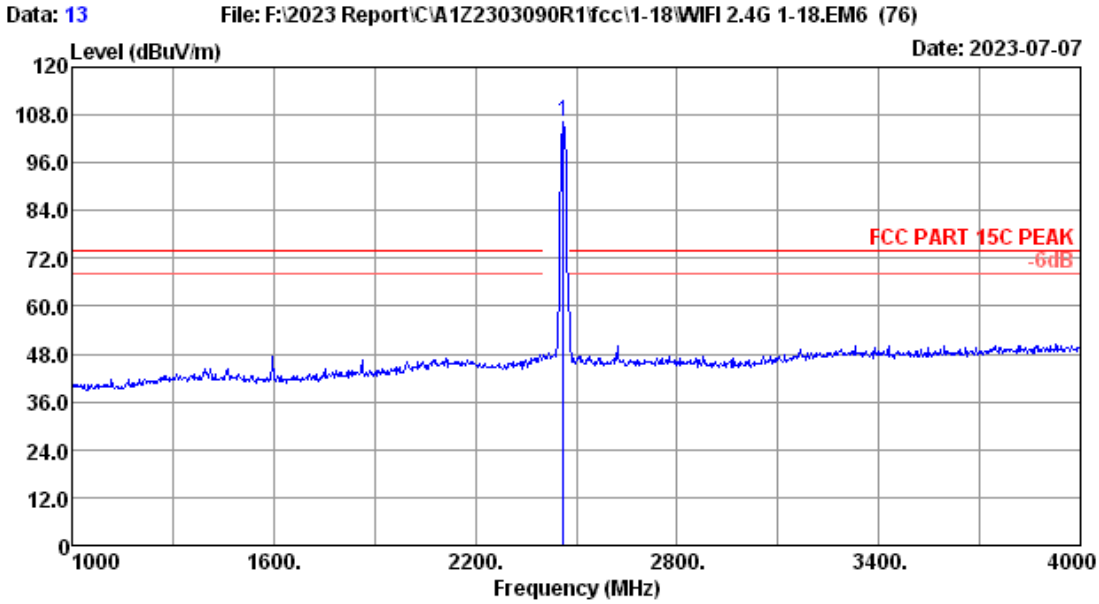
Data no. : 11
Ant. pol. : HORIZONTAL
Engineer : nier

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	31.43	6.54	33.69	42.92	47.20	54.00	6.80	Average
2	4874.00	31.43	6.54	33.69	47.33	51.61	74.00	22.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



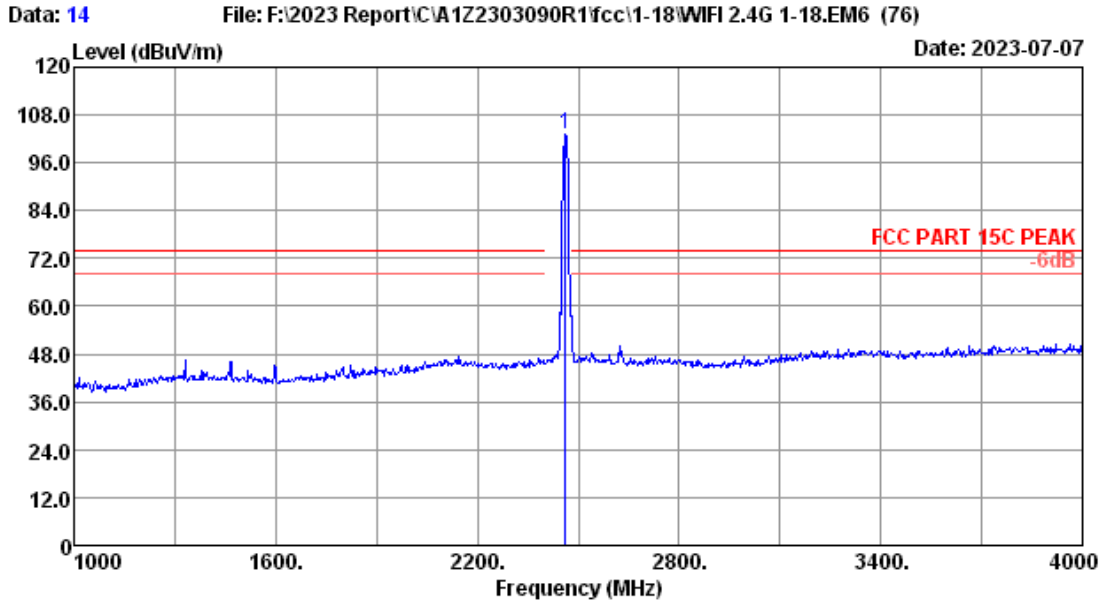
Site no.	: 3m Chamber	Data no.	: 12
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11b 2437MHz TX		
	:		
	:		



Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11b 2462MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.80	4.92	34.35	108.09	106.46	------	------	Peak

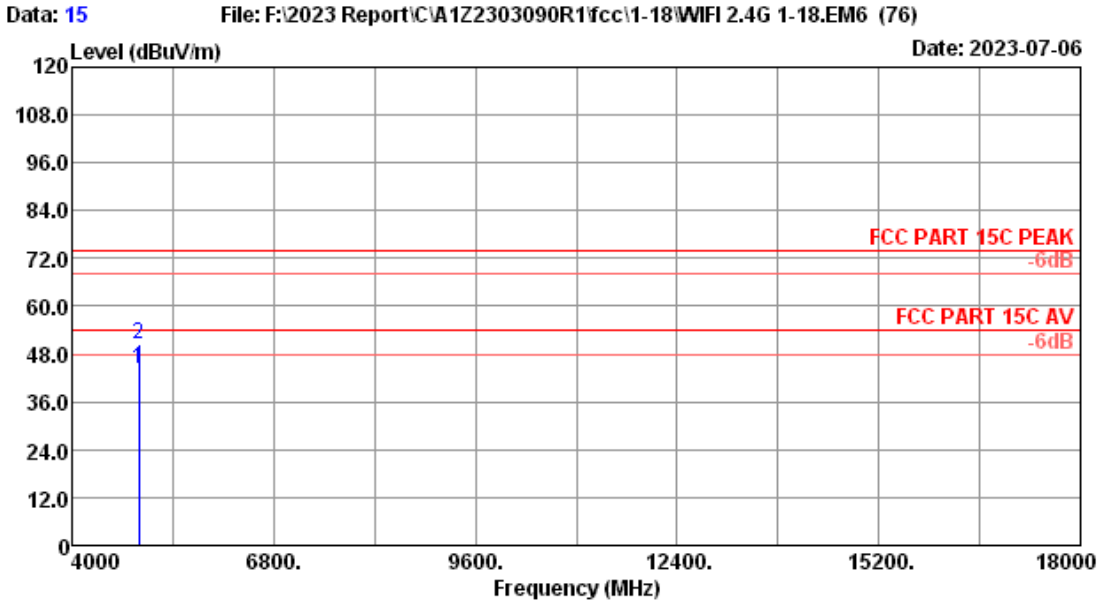
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11b 2462MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.80	4.92	34.35	104.68	103.05	------	------	Peak

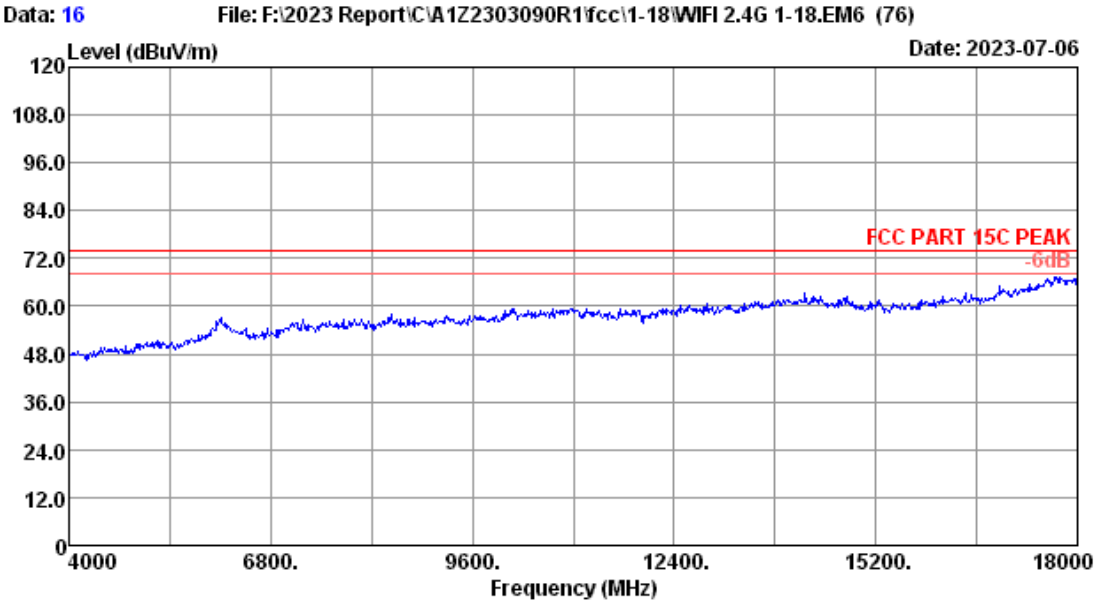
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



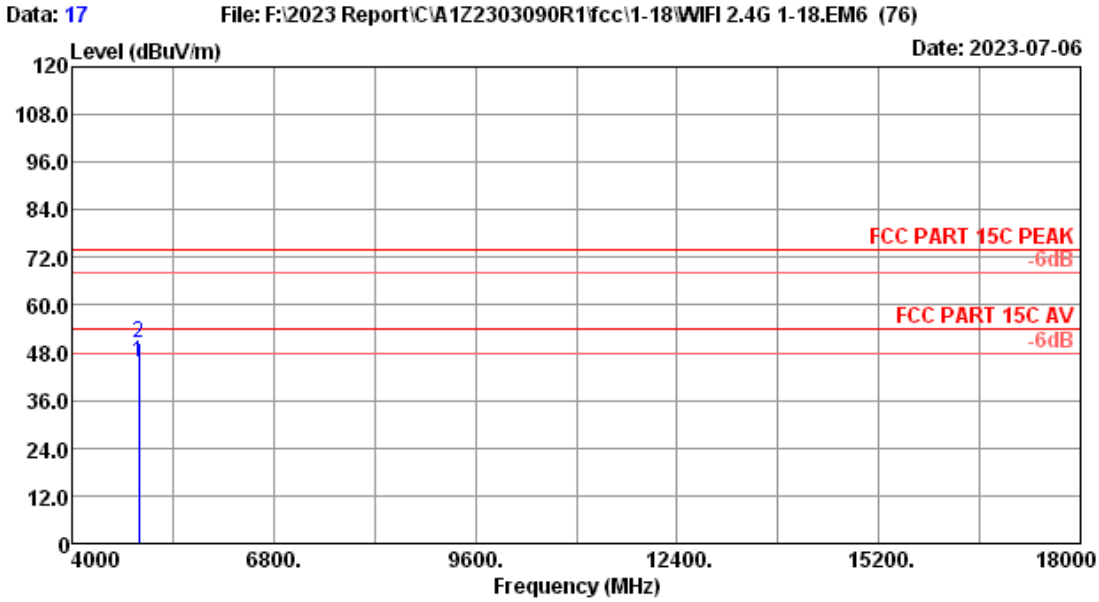
Site no. : 3m Chamber Data no. : 15
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11b 2462MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	31.70	6.56	33.69	39.66	44.23	54.00	9.77	Average
2	4924.00	31.70	6.56	33.69	45.78	50.35	74.00	23.65	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



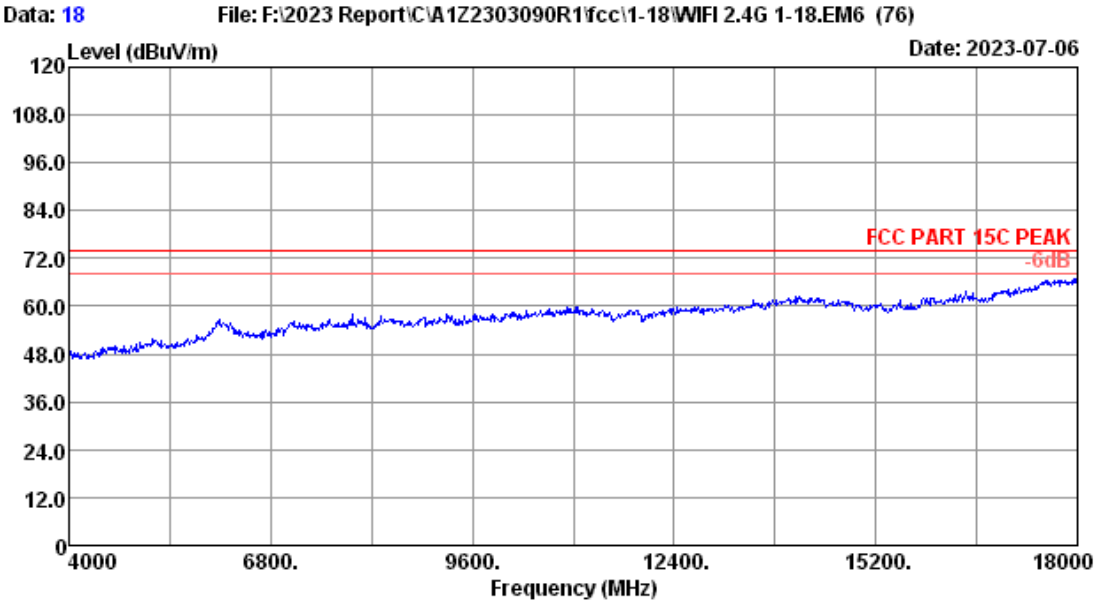
Site no.	: 3m Chamber	Data no.	: 16
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11b 2462MHz TX		
	:		
	:		



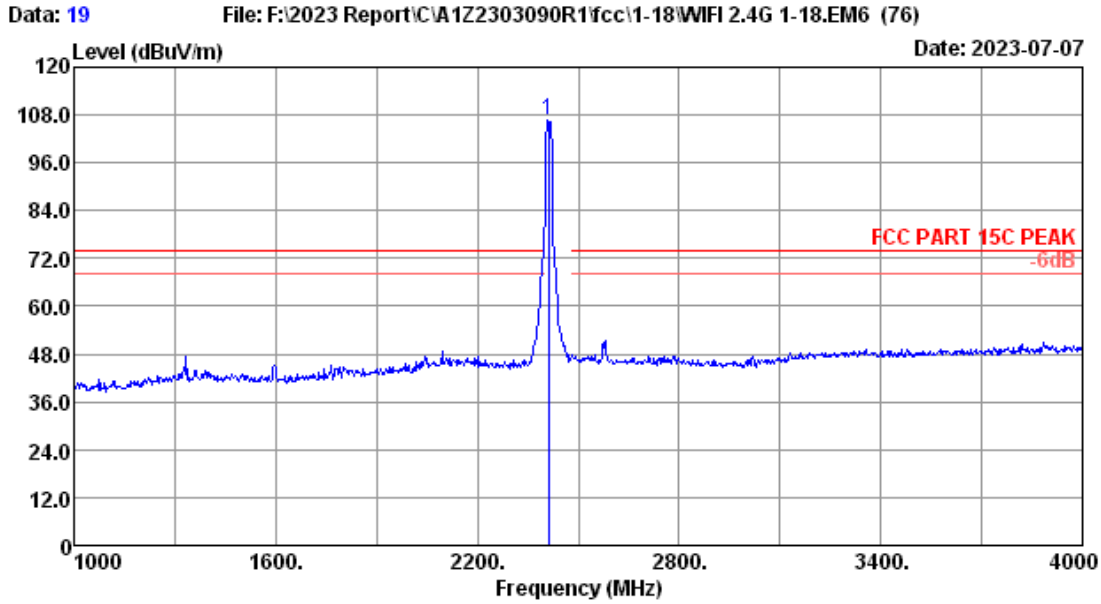
Site no. : 3m Chamber Data no. : 17
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11b 2462MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	31.70	6.56	33.69	40.91	45.48	54.00	8.52	Average
2	4924.00	31.70	6.56	33.69	46.06	50.63	74.00	23.37	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 18
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11b 2462MHz TX		
	:		
	:		

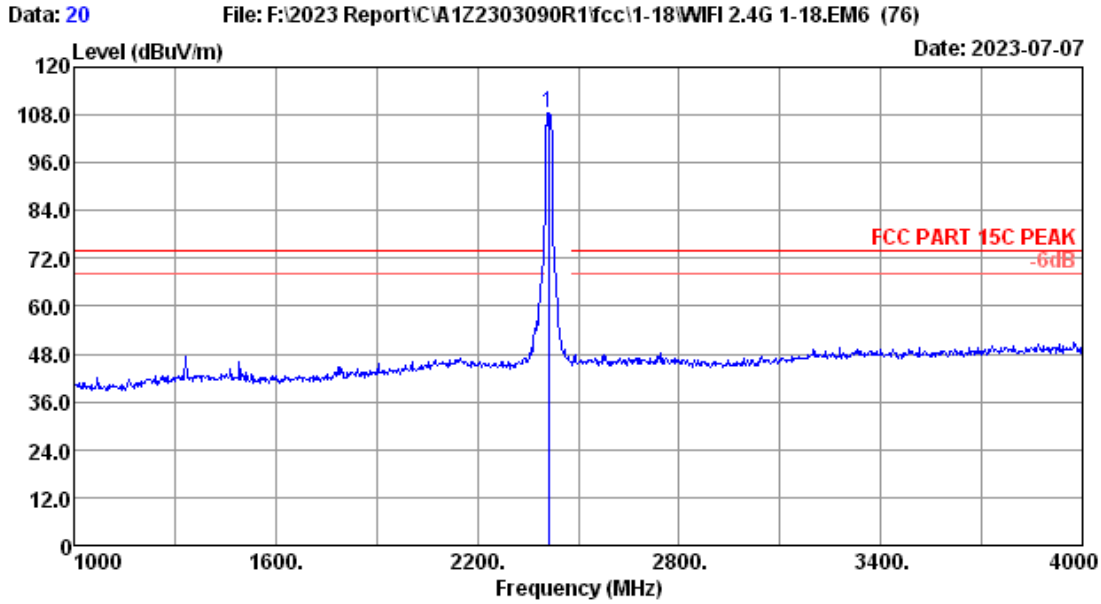


Site no. : 3m Chamber
Dis. / Ant. : 3m 2022 MCTD1209-3006
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5%
Test Mode : Wifi2.4G 11g2412MHz TX

Data no. : 19
Ant. pol. : VERTICAL
Engineer : nier

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.73	4.87	34.36	108.69	106.93	------	------	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

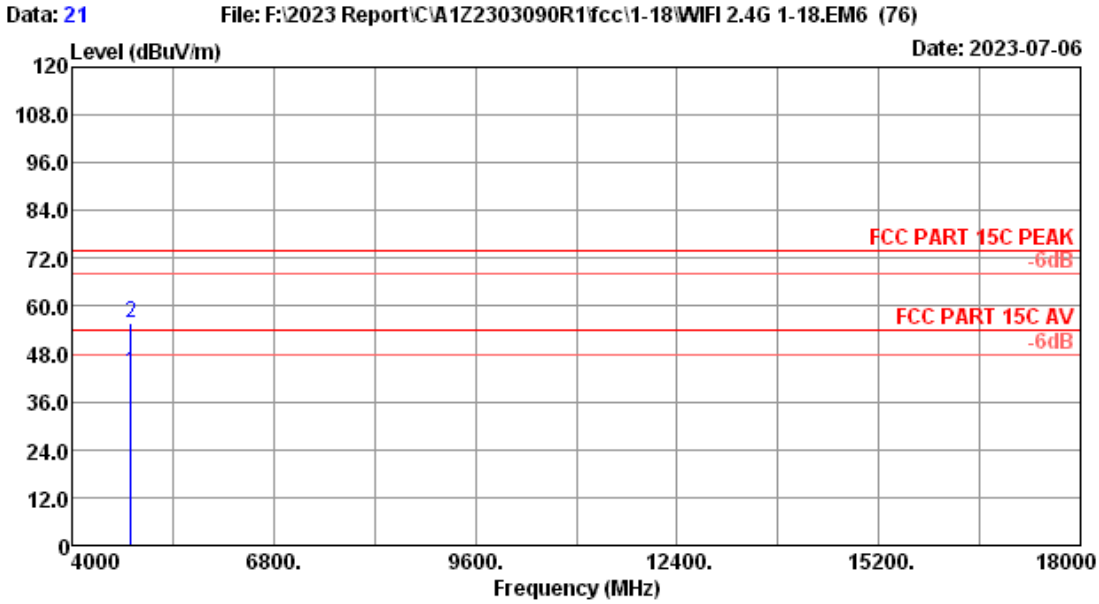


Site no. : 3m Chamber
Dis. / Ant. : 3m 2022 MCTD1209-3006
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5%
Test Mode : Wifi2.4G 11g2412MHz TX

Data no. : 20
Ant. pol. : HORIZONTAL
Engineer : nier

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.73	4.87	34.36	110.10	108.34	------	------	Peak

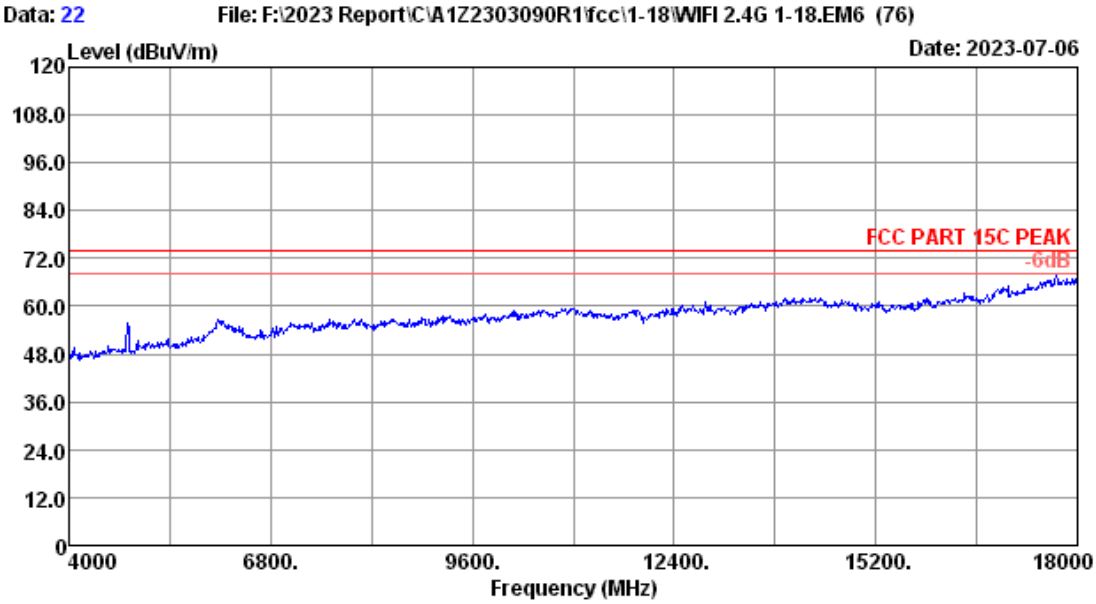
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



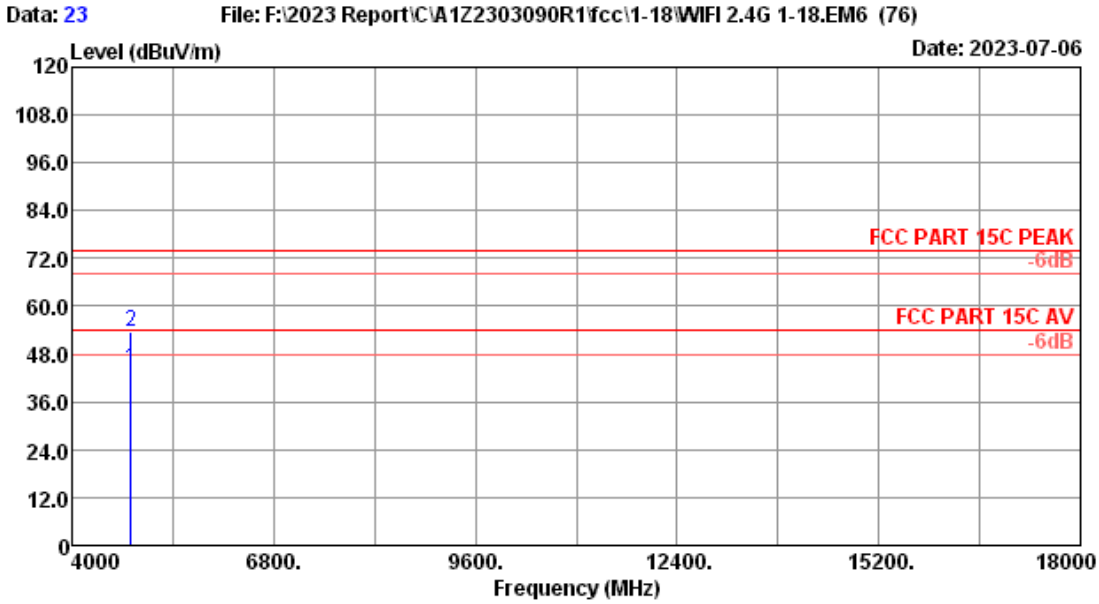
Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11g 2412MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	31.25	6.51	33.68	39.24	43.32	54.00	10.68	Average
2	4824.00	31.25	6.51	33.68	51.64	55.72	74.00	18.28	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



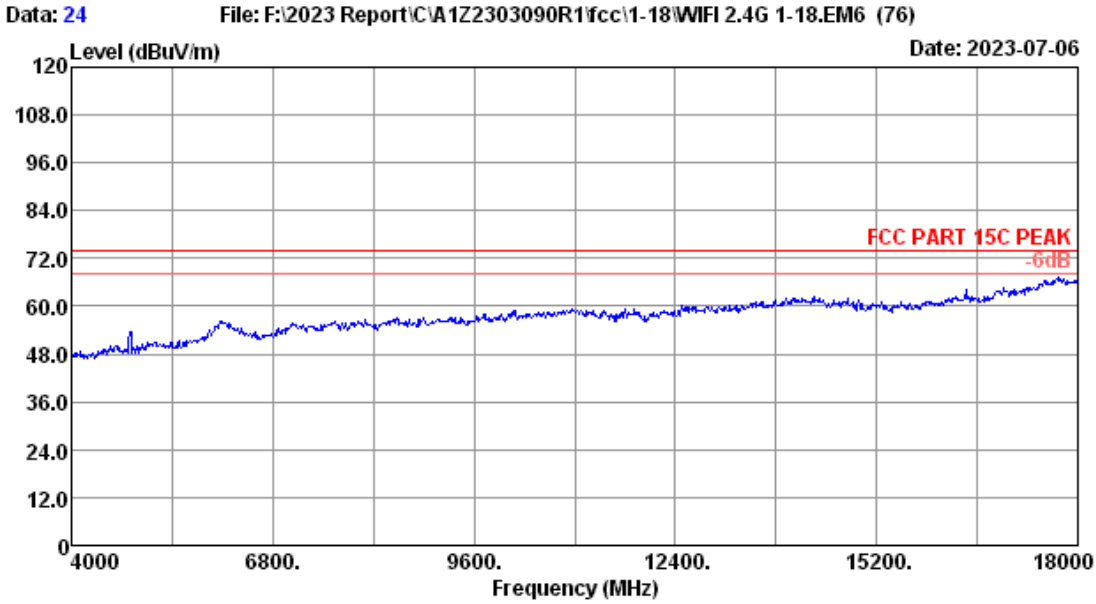
Site no.	: 3m Chamber	Data no.	: 22
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11g 2412MHz TX		
	:		
	:		



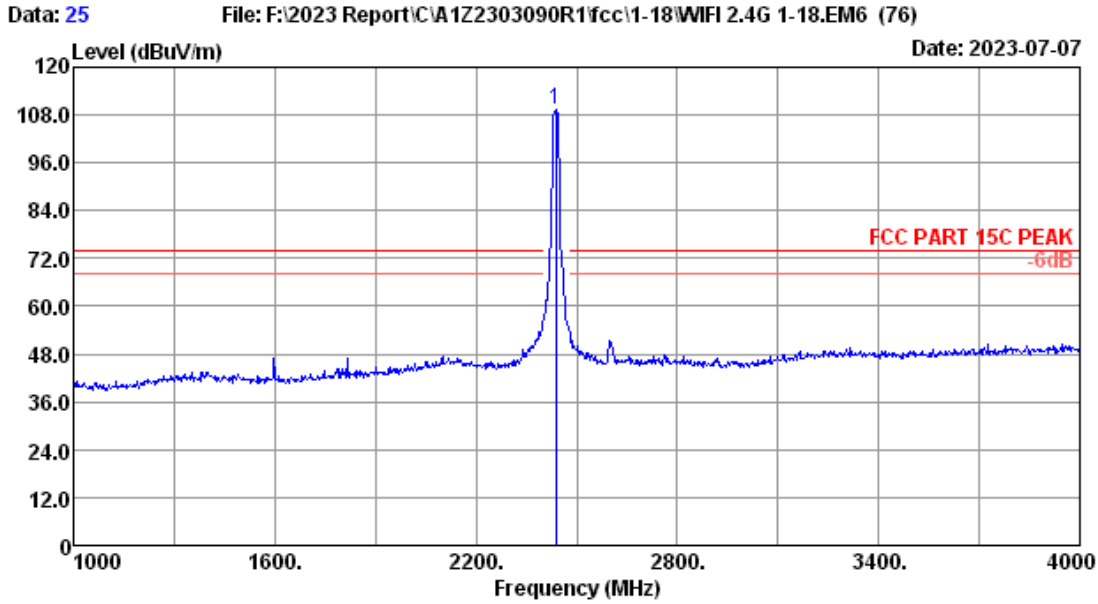
Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11g 2412MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	31.25	6.51	33.68	40.05	44.13	54.00	9.87	Average
2	4824.00	31.25	6.51	33.68	49.55	53.63	74.00	20.37	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 24
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11g 2412MHz TX		
	:		
	:		

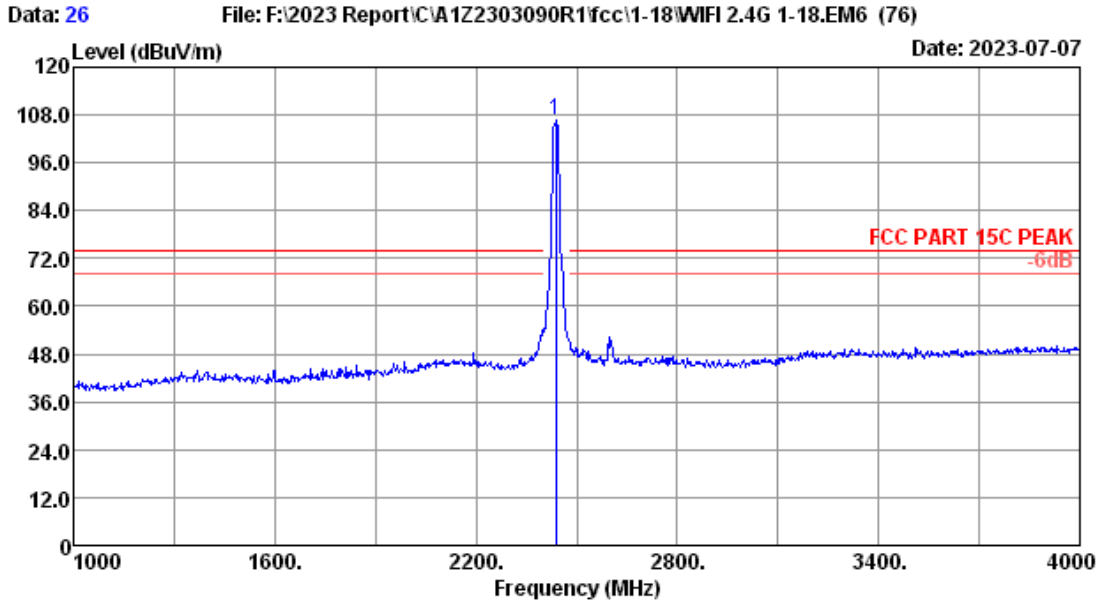


Site no. : 3m Chamber
Dis. / Ant. : 3m 2022 MCTD1209-3006
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5%
Test Mode : Wifi2.4G 11g2437MHz TX
:
:

Data no. : 25
Ant. pol. : HORIZONTAL
Engineer : nier

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.80	4.89	34.36	110.92	109.25	------	------	Peak

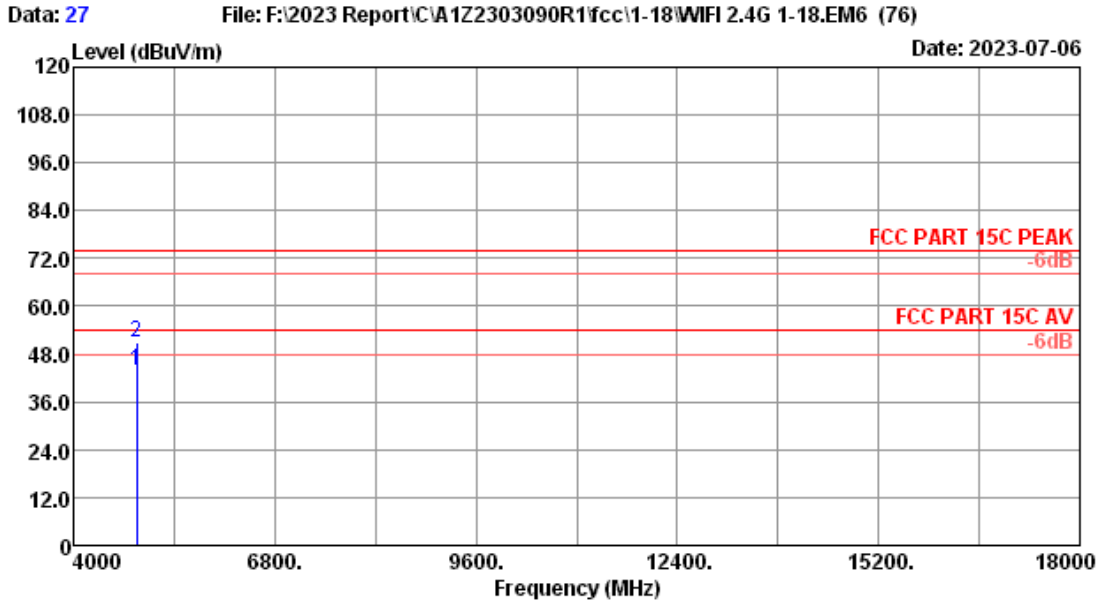
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11g2437MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.80	4.89	34.36	108.26	106.59	------	------	Peak

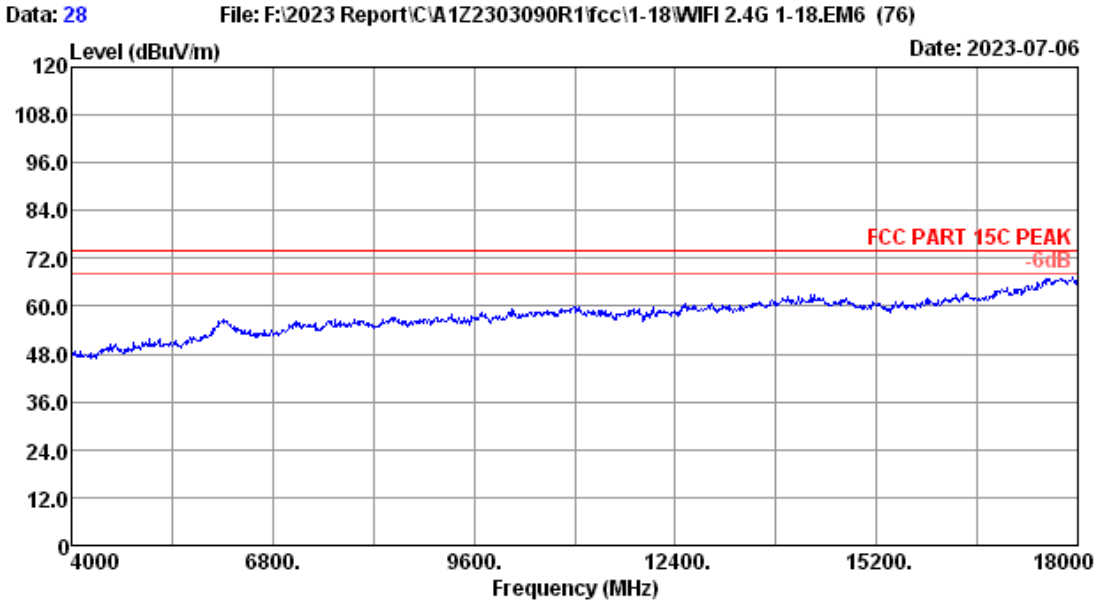
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



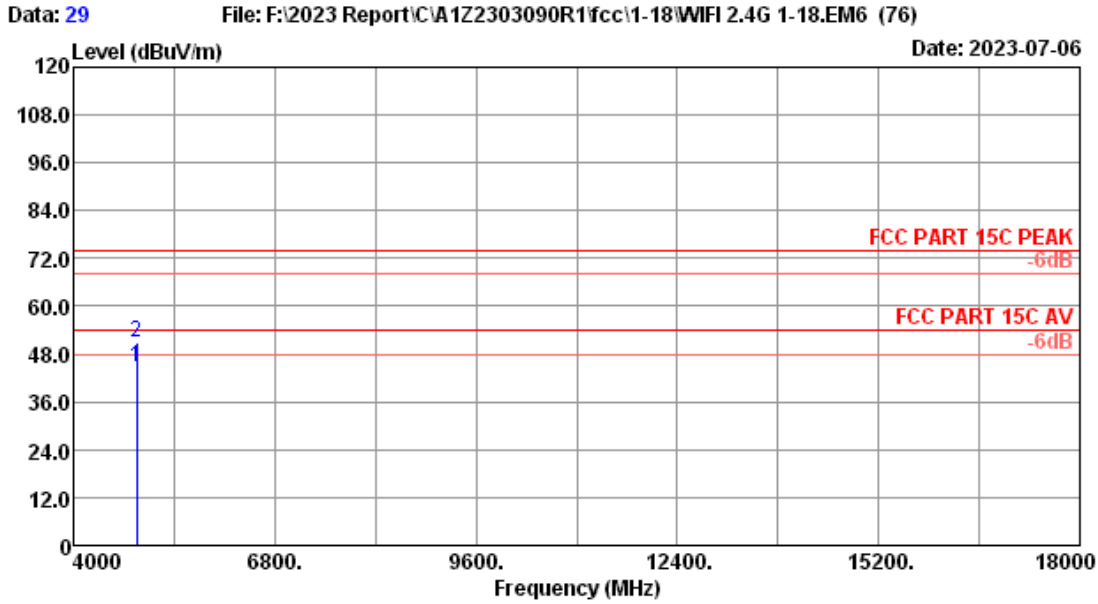
Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11g 2437MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	31.43	6.54	33.69	39.67	43.95	54.00	10.05	Average
2	4874.00	31.43	6.54	33.69	46.84	51.12	74.00	22.88	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 28
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11g 2437MHz TX		
	:		
	:		

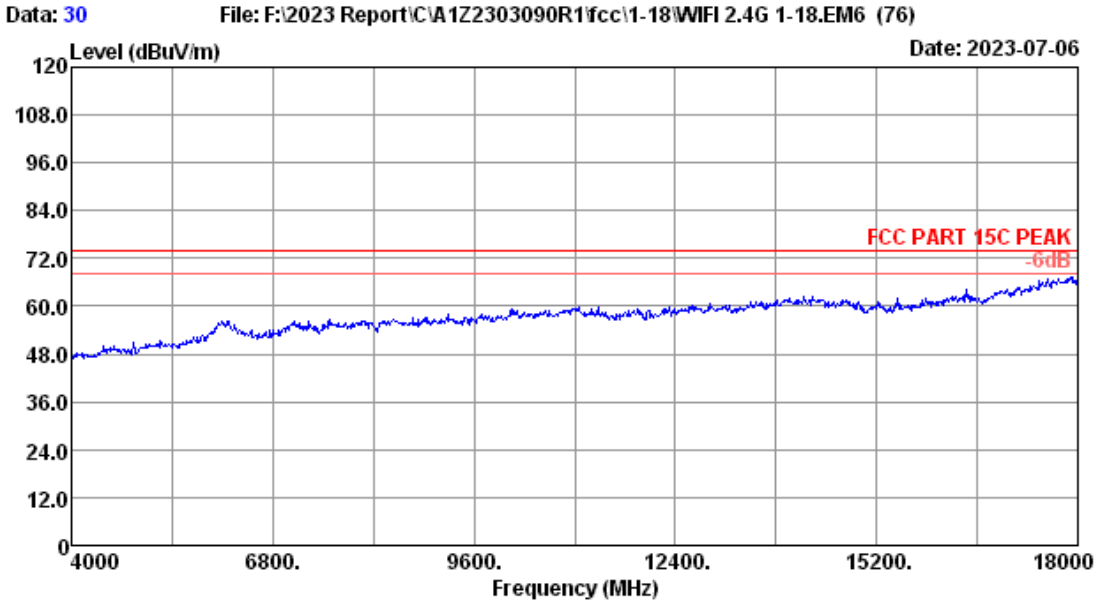


Site no. : 3m Chamber
Dis. / Ant. : 3m 2022 MCTD1209-3006
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5%
Test Mode : Wifi2.4G 11g 2437MHz TX
:
:

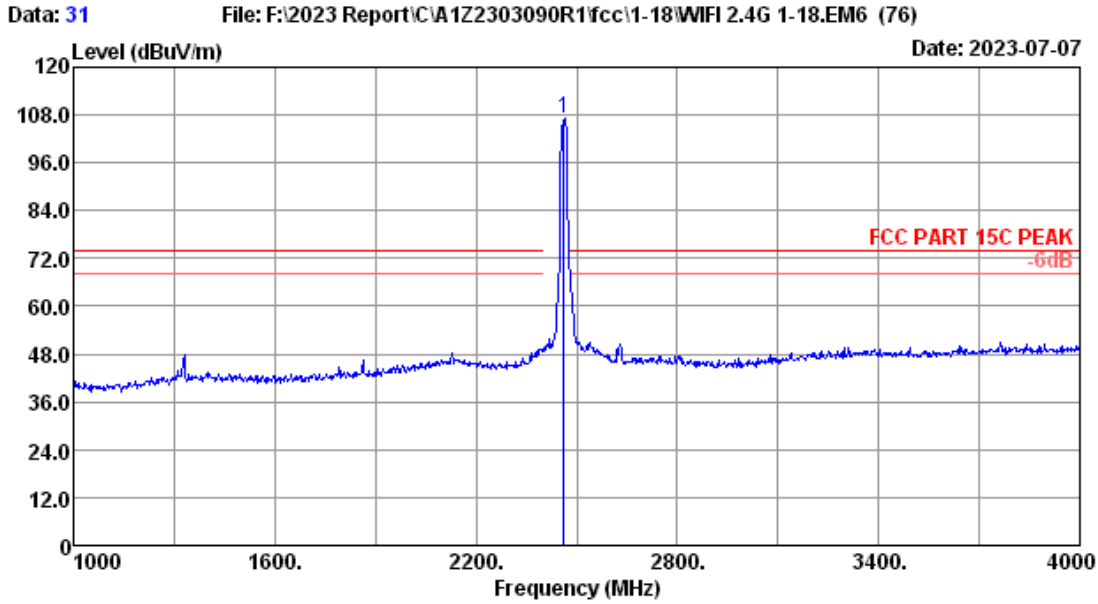
Data no. : 29
Ant. pol. : HORIZONTAL
Engineer : nier

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	31.43	6.54	33.69	40.22	44.50	54.00	9.50	Average
2	4874.00	31.43	6.54	33.69	46.72	51.00	74.00	23.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 30
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11g 2437MHz TX		
	:		
	:		

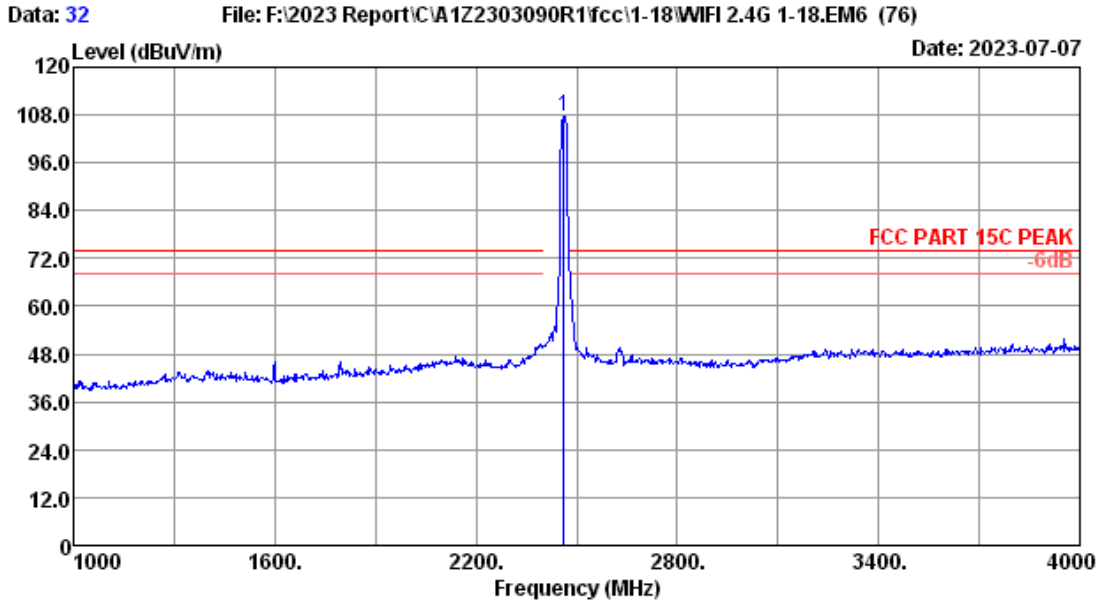


Site no. : 3m Chamber
Dis. / Ant. : 3m 2022 MCTD1209-3006
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5%
Test Mode : Wifi2.4G 11g2462MHz TX
:
:

Data no. : 31
Ant. pol. : VERTICAL
Engineer : nier

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.80	4.92	34.35	108.85	107.22	------	------	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

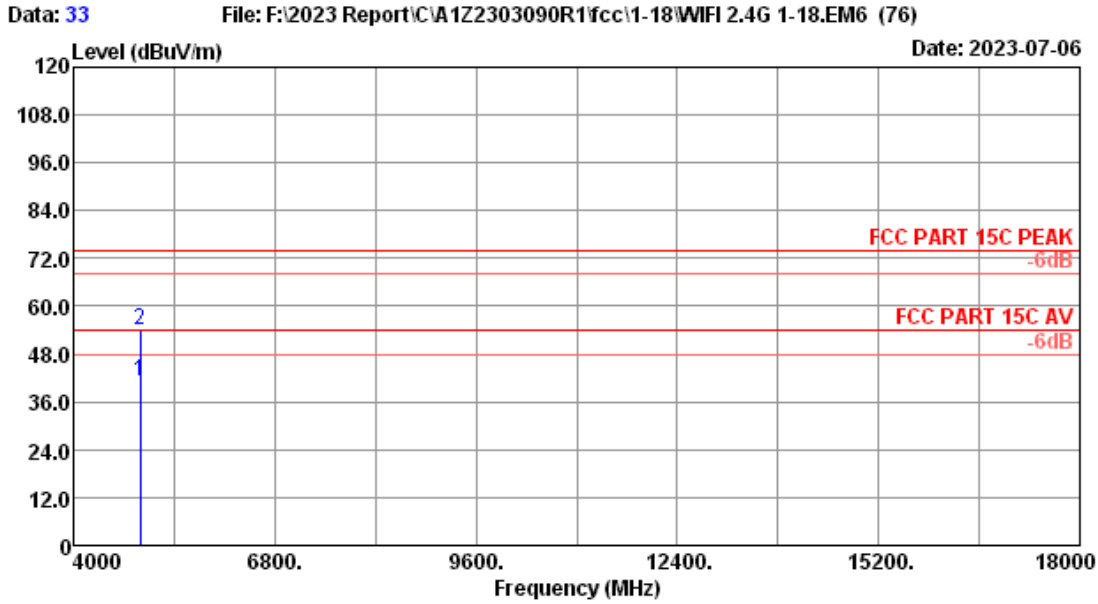


Site no. : 3m Chamber
Dis. / Ant. : 3m 2022 MCTD1209-3006
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5%
Test Mode : Wifi2.4G 11g2462MHz TX
:
:

Data no. : 32
Ant. pol. : HORIZONTAL
Engineer : nier

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.80	4.92	34.35	109.11	107.48	------	------	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

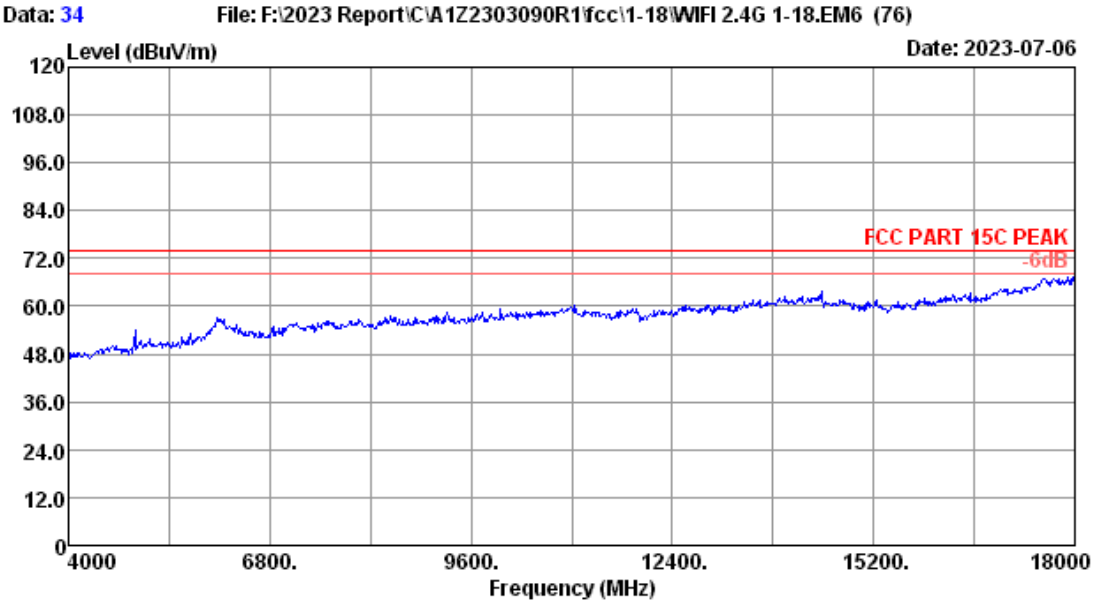


Site no. : 3m Chamber
Dis. / Ant. : 3m 2022 MCTD1209-3006
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5%
Test Mode : Wifi2.4G 11g 2462MHz TX
:
:

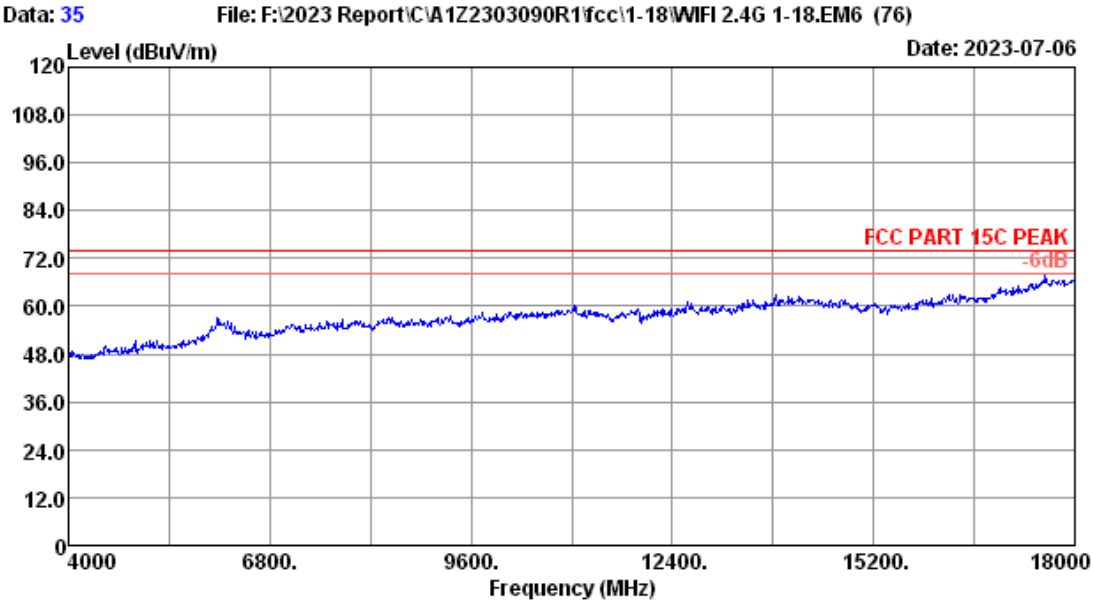
Data no. : 33
Ant. pol. : HORIZONTAL
Engineer : nier

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	31.70	6.56	33.69	36.61	41.18	54.00	12.82	Average
2	4924.00	31.70	6.56	33.69	49.59	54.16	74.00	19.84	Peak

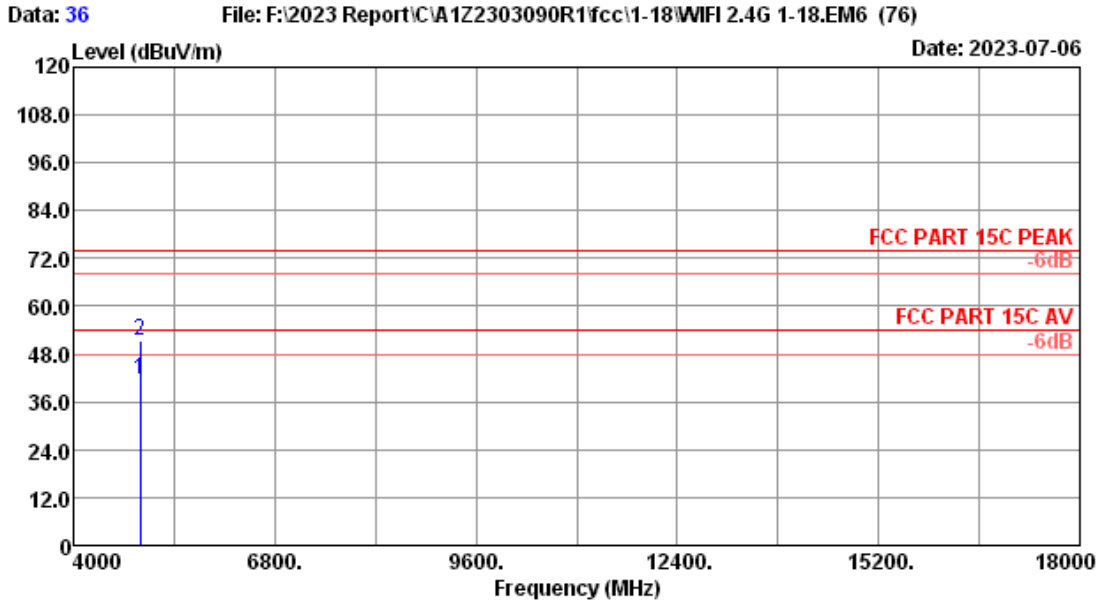
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 34
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11g 2462MHz TX		
	:		
	:		



Site no.	: 3m Chamber	Data no.	: 35
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11g 2462MHz TX		
	:		
	:		

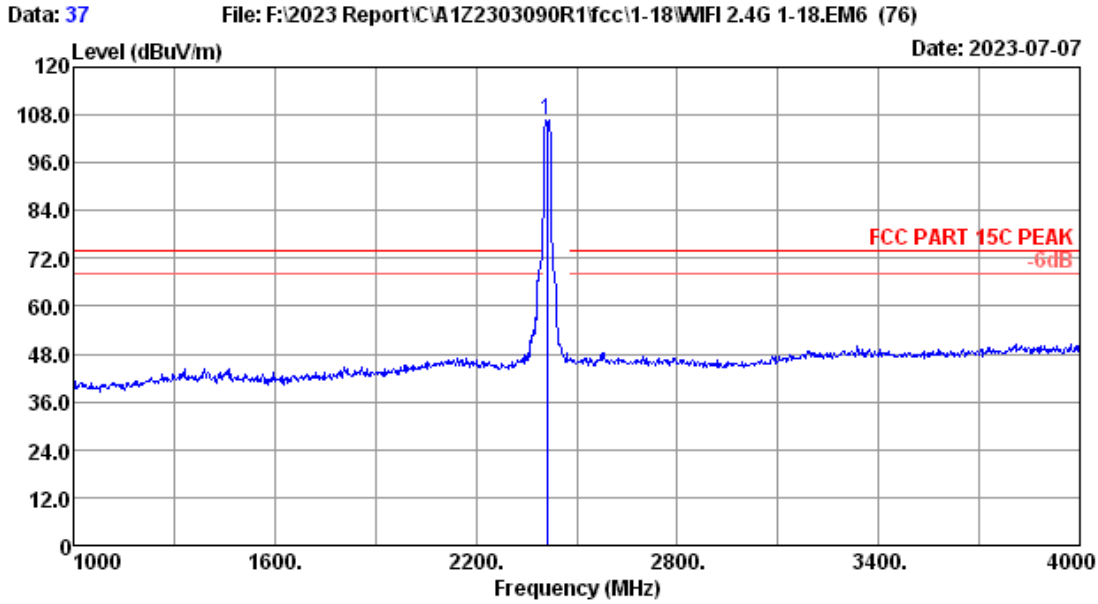


Site no. : 3m Chamber
Dis. / Ant. : 3m 2022 MCTD1209-3006
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5%
Test Mode : Wifi2.4G 11g 2462MHz TX
:
:

Data no. : 36
Ant. pol. : VERTICAL
Engineer : nier

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	31.70	6.56	33.69	36.91	41.48	54.00	12.52	Average
2	4924.00	31.70	6.56	33.69	46.67	51.24	74.00	22.76	Peak

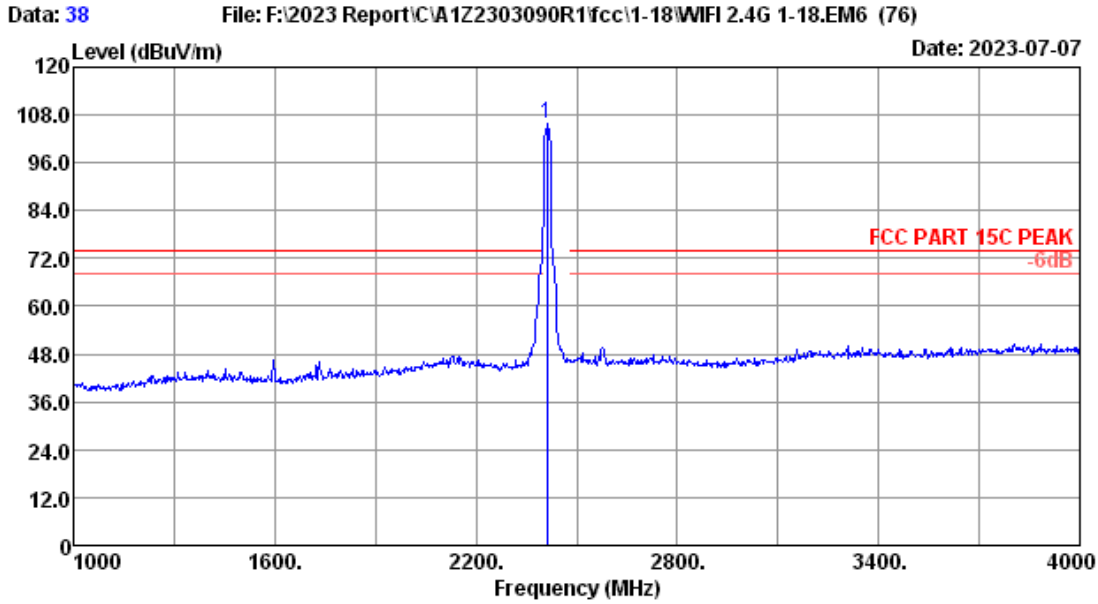
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 37
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n20 2412MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.73	4.87	34.36	108.50	106.74	------	------	Peak

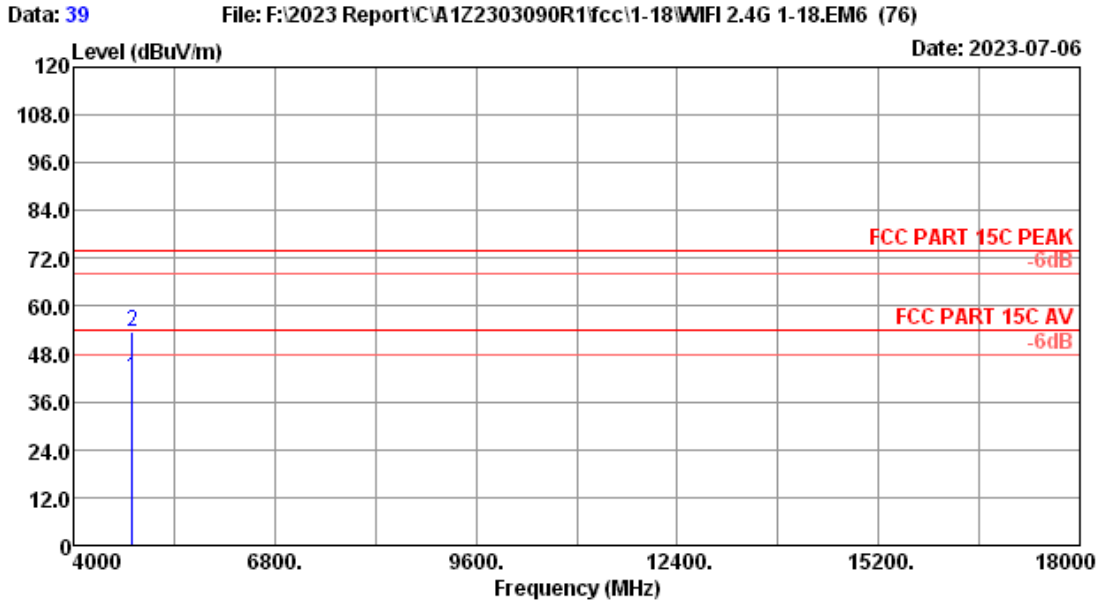
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 38
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n20 2412MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.73	4.87	34.36	107.48	105.72	------	------	Peak

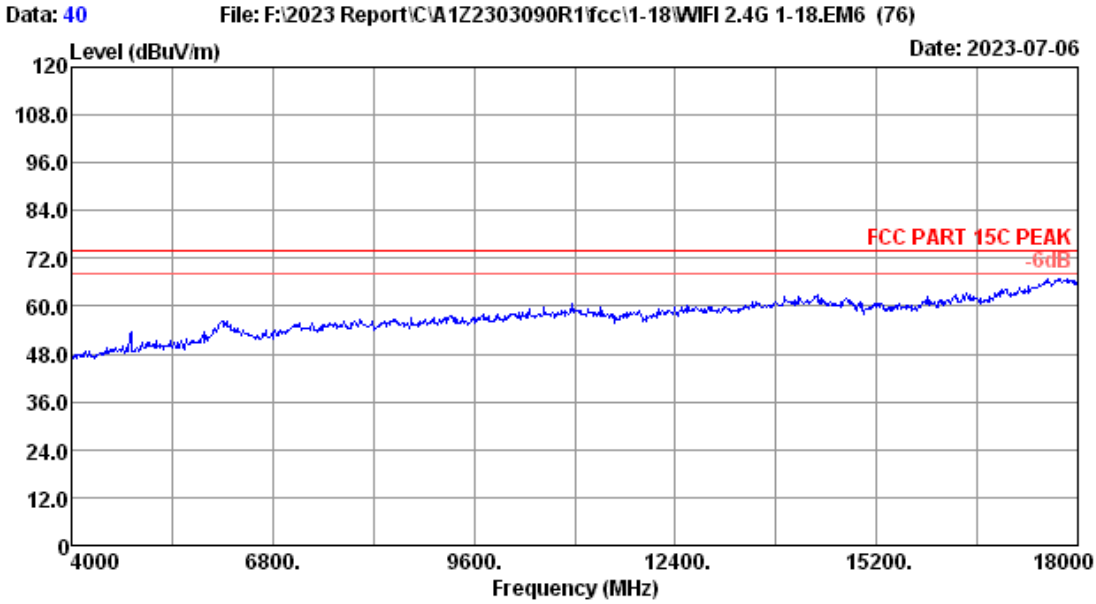
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



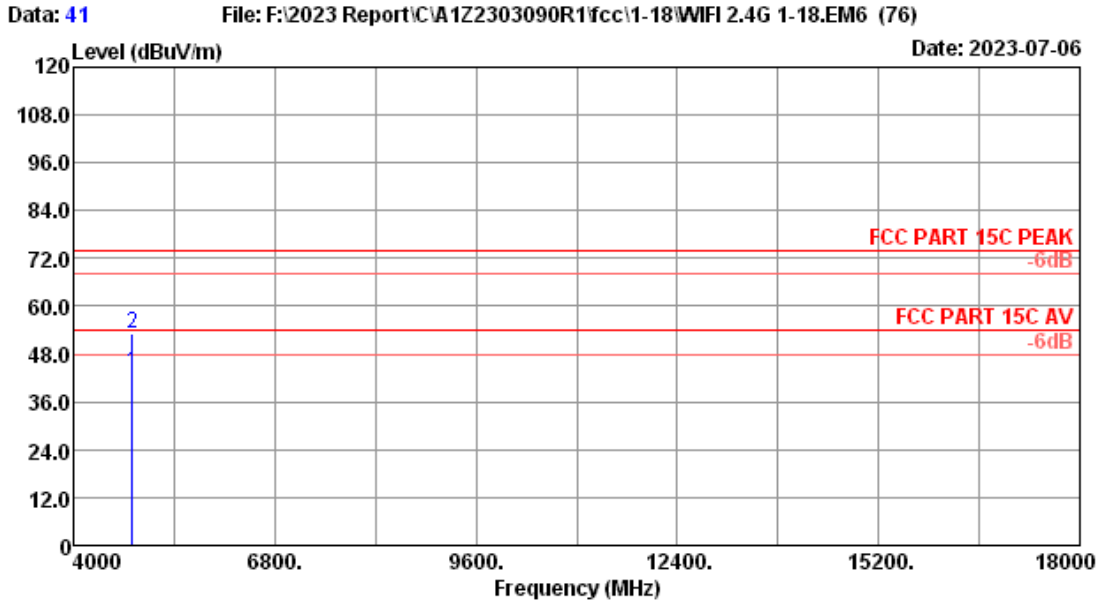
Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n20 2412MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	31.25	6.51	33.68	37.84	41.92	54.00	12.08	Average
2	4824.00	31.25	6.51	33.68	49.45	53.53	74.00	20.47	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



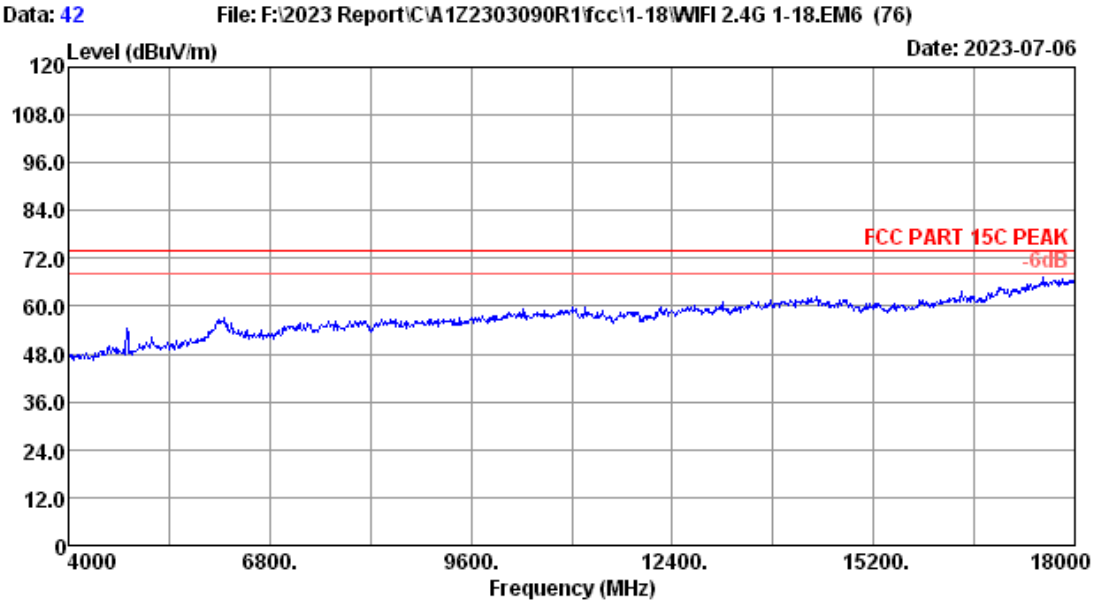
Site no.	: 3m Chamber	Data no.	: 40
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11n20 2412MHz TX		
	:		
	:		



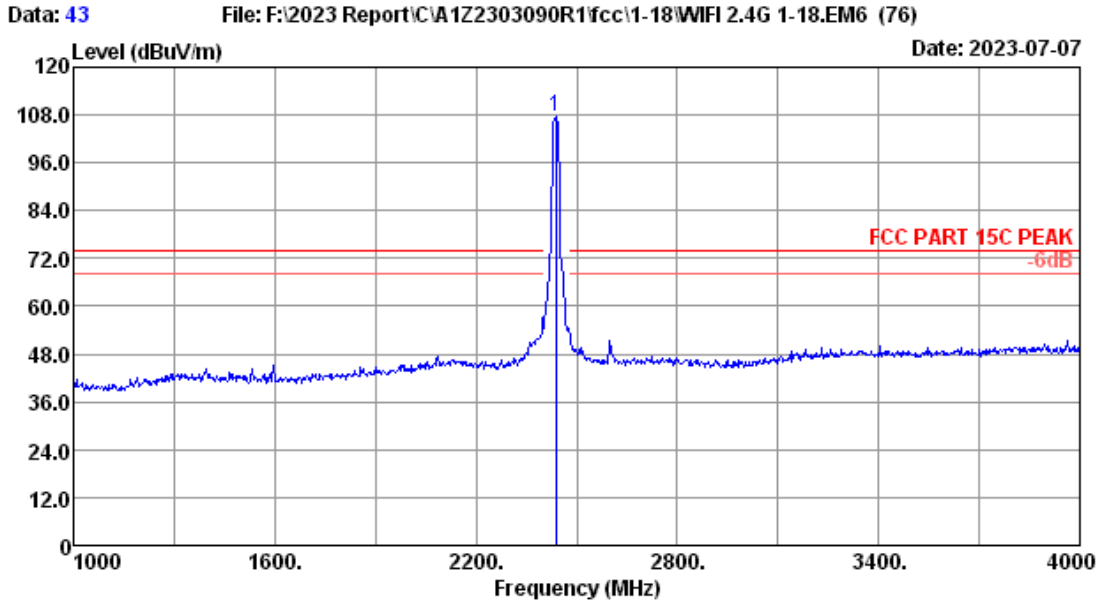
Site no. : 3m Chamber Data no. : 41
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n20 2412MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	31.25	6.51	33.68	39.13	43.21	54.00	10.79	Average
2	4824.00	31.25	6.51	33.68	49.20	53.28	74.00	20.72	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



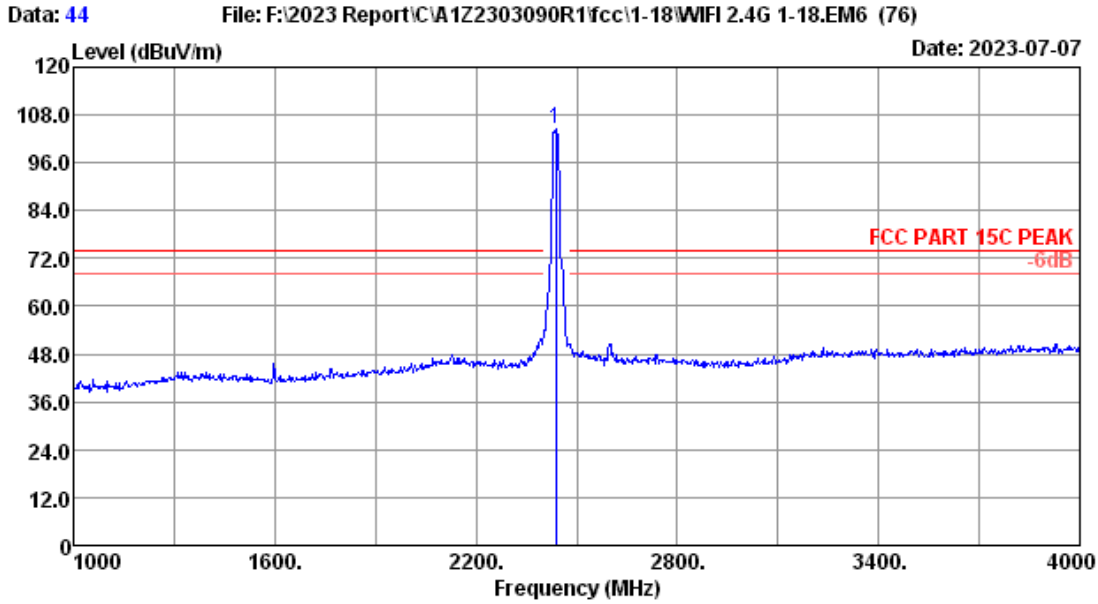
Site no.	: 3m Chamber	Data no.	: 42
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11n20 2412MHz TX		
	:		
	:		



Site no. : 3m Chamber Data no. : 43
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n20 2437MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.80	4.89	34.36	109.38	107.71	------	------	Peak

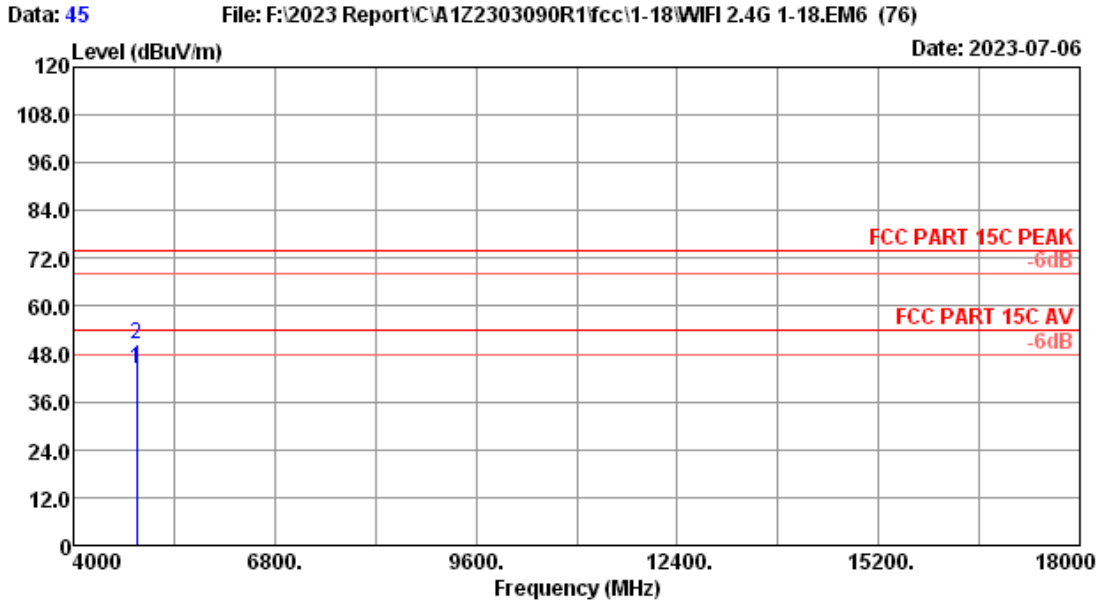
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 44
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n20 2437MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.80	4.89	34.36	106.19	104.52	------	------	Peak

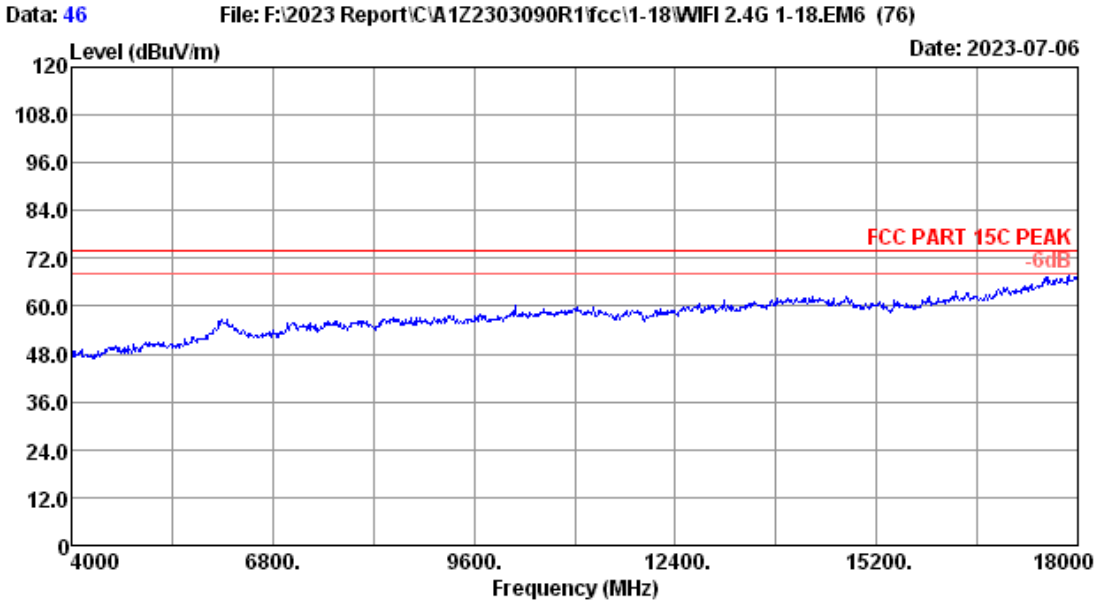
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



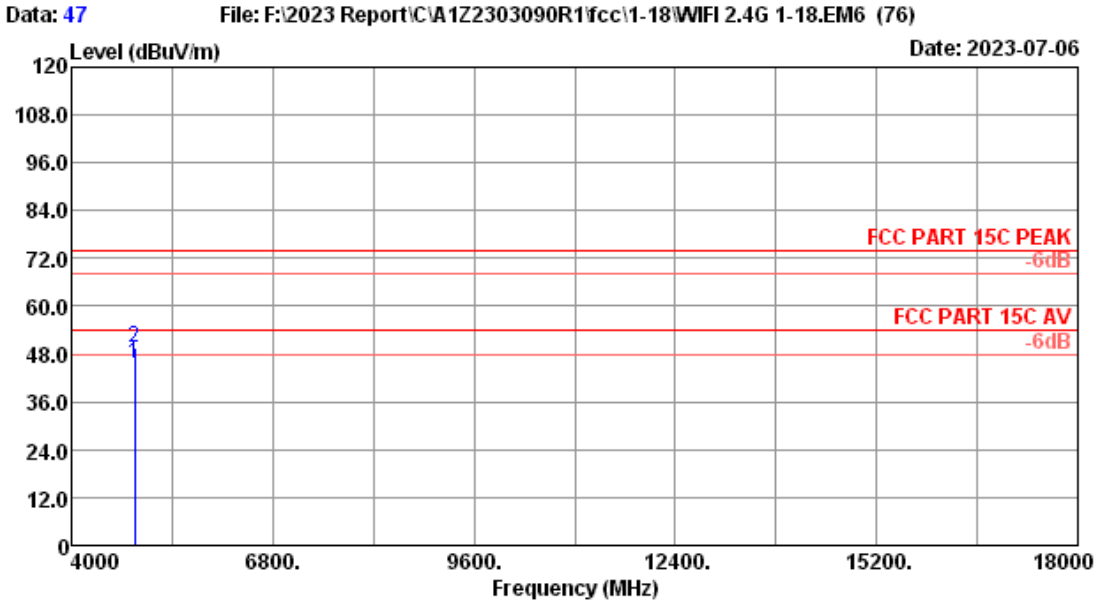
Site no. : 3m Chamber Data no. : 45
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n20 2437MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	31.43	6.54	33.69	39.78	44.06	54.00	9.94	Average
2	4874.00	31.43	6.54	33.69	45.98	50.26	74.00	23.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



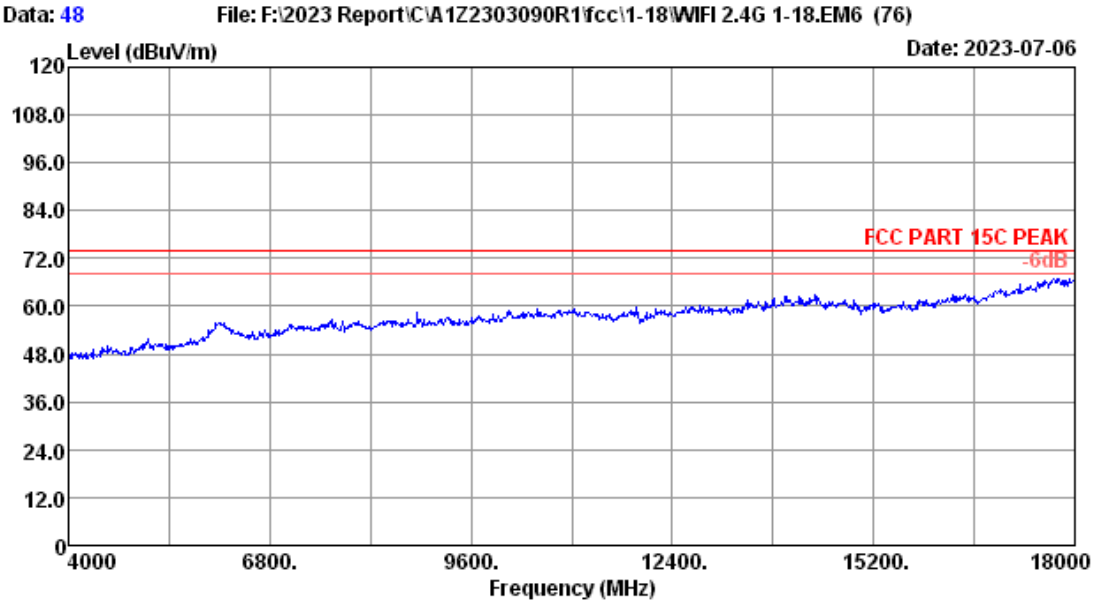
Site no.	: 3m Chamber	Data no.	: 46
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11n20 2437MHz TX		
	:		
	:		



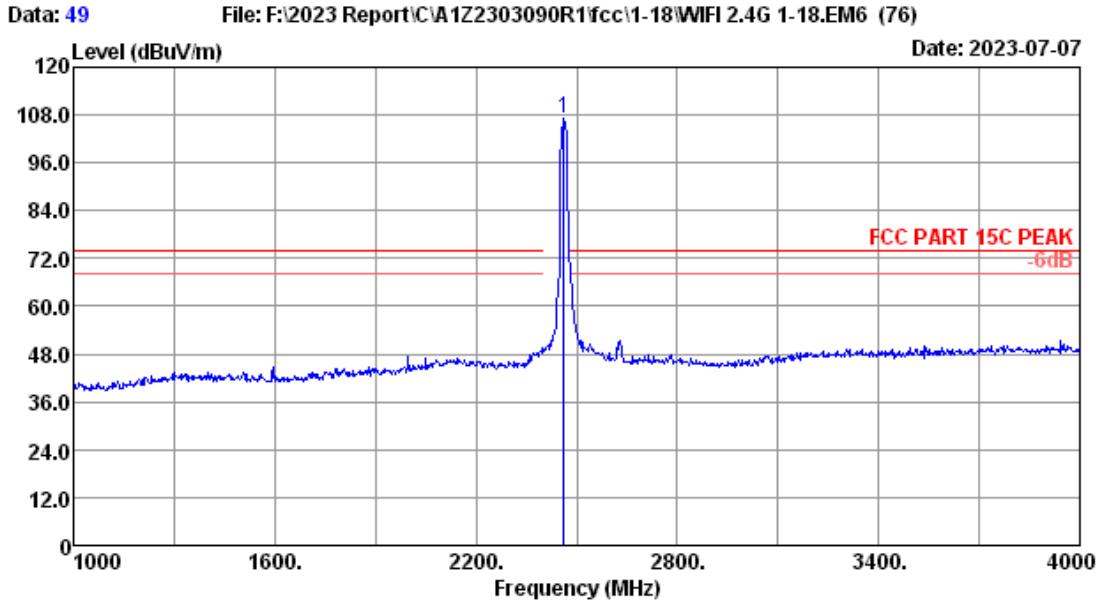
Site no. : 3m Chamber Data no. : 47
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n20 2437MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	31.43	6.54	33.69	41.21	45.49	54.00	8.51	Average
2	4874.00	31.43	6.54	33.69	45.51	49.79	74.00	24.21	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



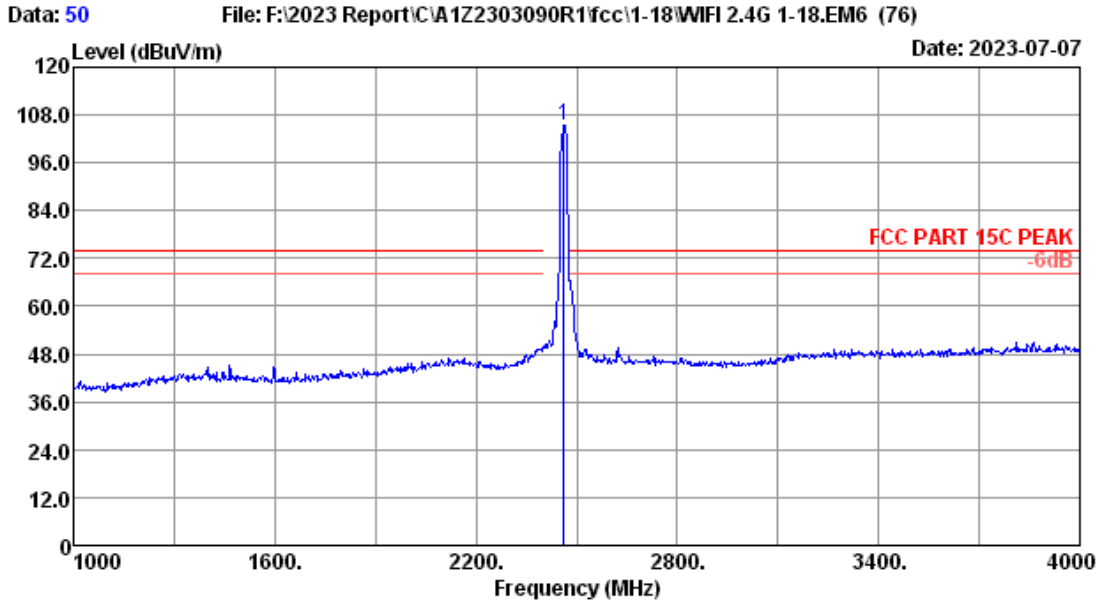
Site no.	: 3m Chamber	Data no.	: 48
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11n20 2437MHz TX		
	:		
	:		



Site no. : 3m Chamber Data no. : 49
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n20 2462MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.80	4.92	34.35	108.72	107.09	------	------	Peak

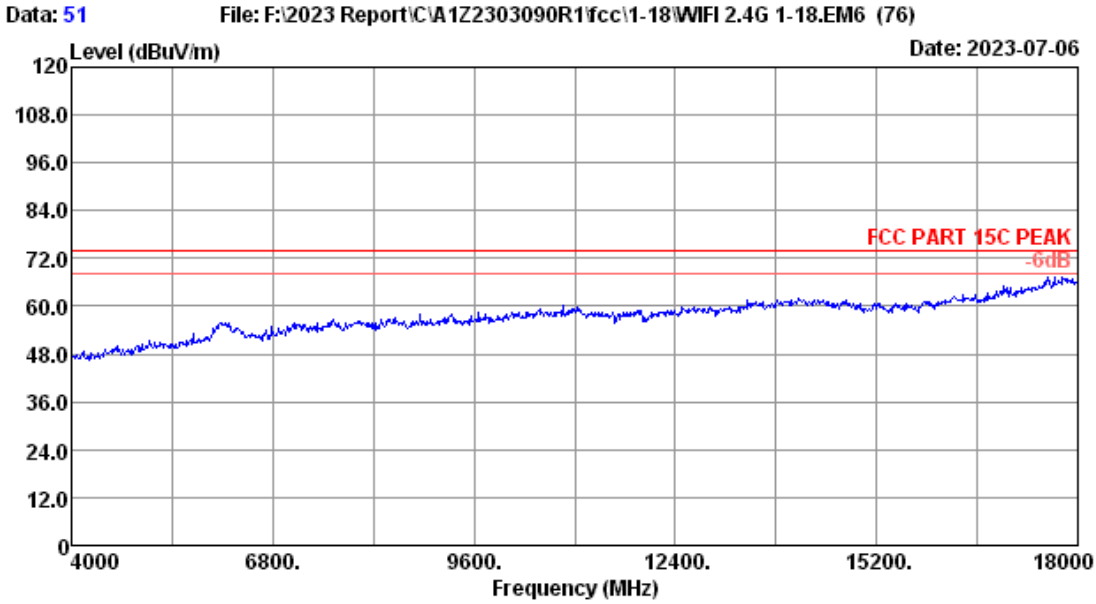
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



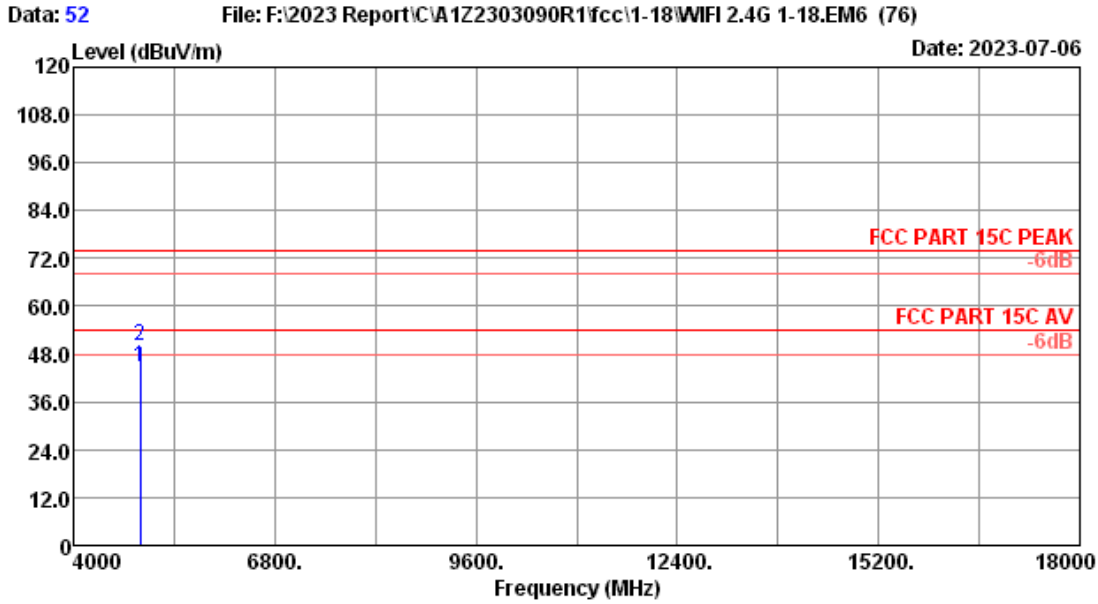
Site no. : 3m Chamber Data no. : 50
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n20 2462MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.80	4.92	34.35	107.06	105.43	------	------	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



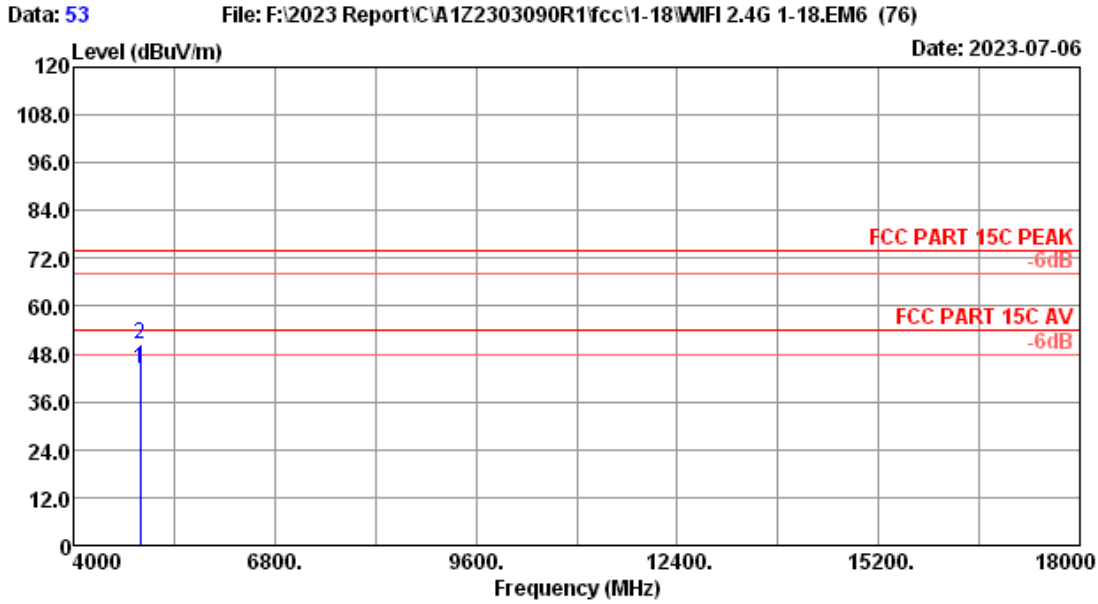
Site no.	: 3m Chamber	Data no.	: 51
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11n20 2462MHz TX		
	:		
	:		



Site no. : 3m Chamber Data no. : 52
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n20 2462MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	31.70	6.56	33.69	40.11	44.68	54.00	9.32	Average
2	4924.00	31.70	6.56	33.69	45.46	50.03	74.00	23.97	Peak

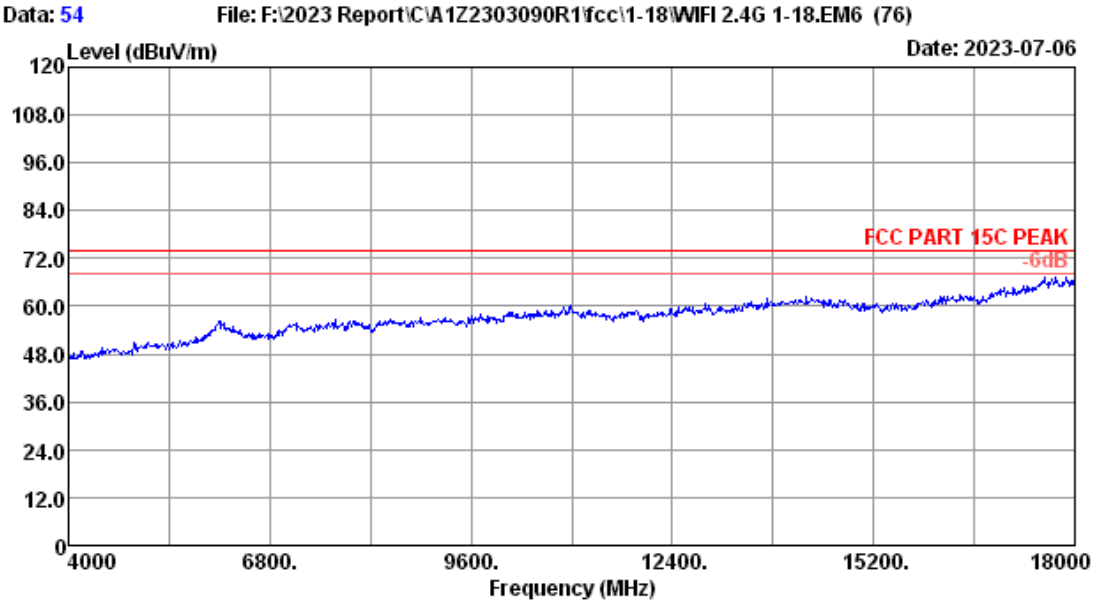
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



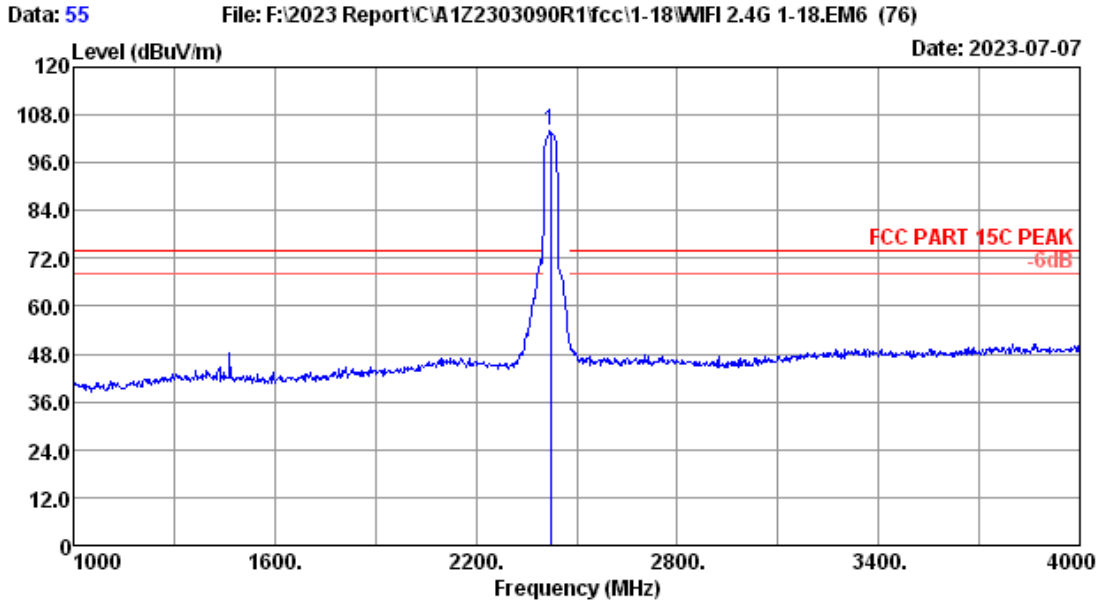
Site no. : 3m Chamber Data no. : 53
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n20 2462MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	31.70	6.56	33.69	39.66	44.23	54.00	9.77	Average
2	4924.00	31.70	6.56	33.69	45.72	50.29	74.00	23.71	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



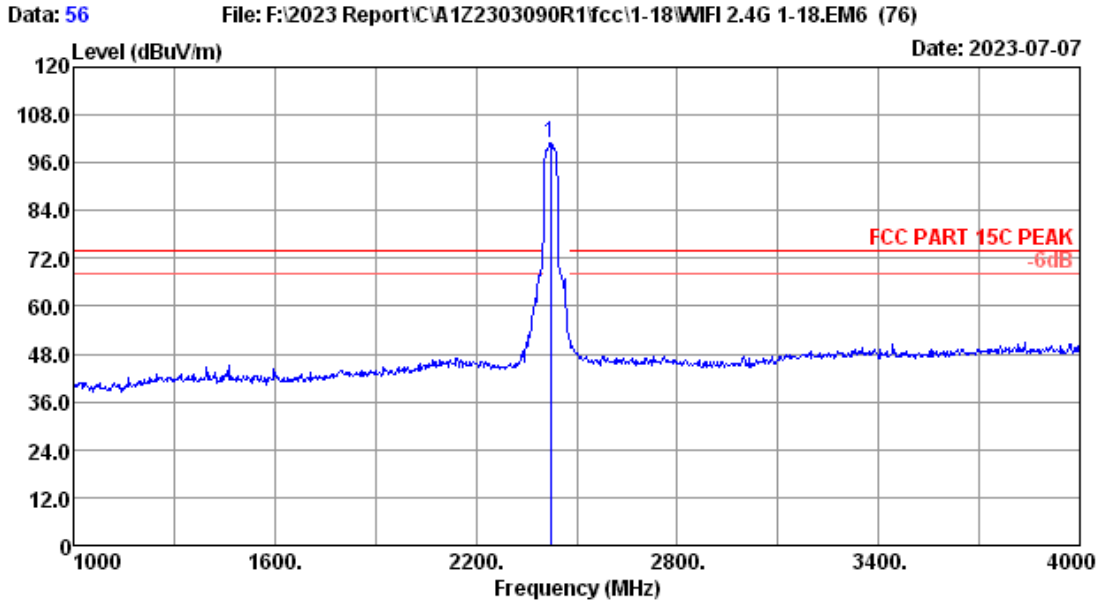
Site no.	: 3m Chamber	Data no.	: 54
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11n20 2462MHz TX		
	:		
	:		



Site no. : 3m Chamber Data no. : 55
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n40 2422MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.77	4.88	34.36	105.66	103.95	------	------	Peak

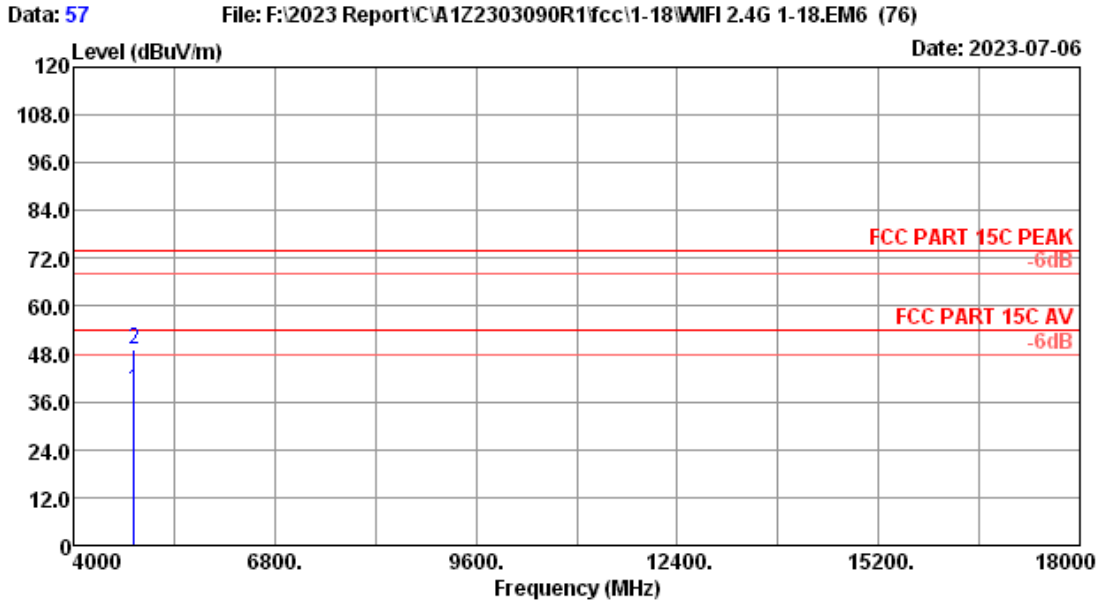
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 56
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n40 2422MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.77	4.88	34.36	102.75	101.04	------	------	Peak

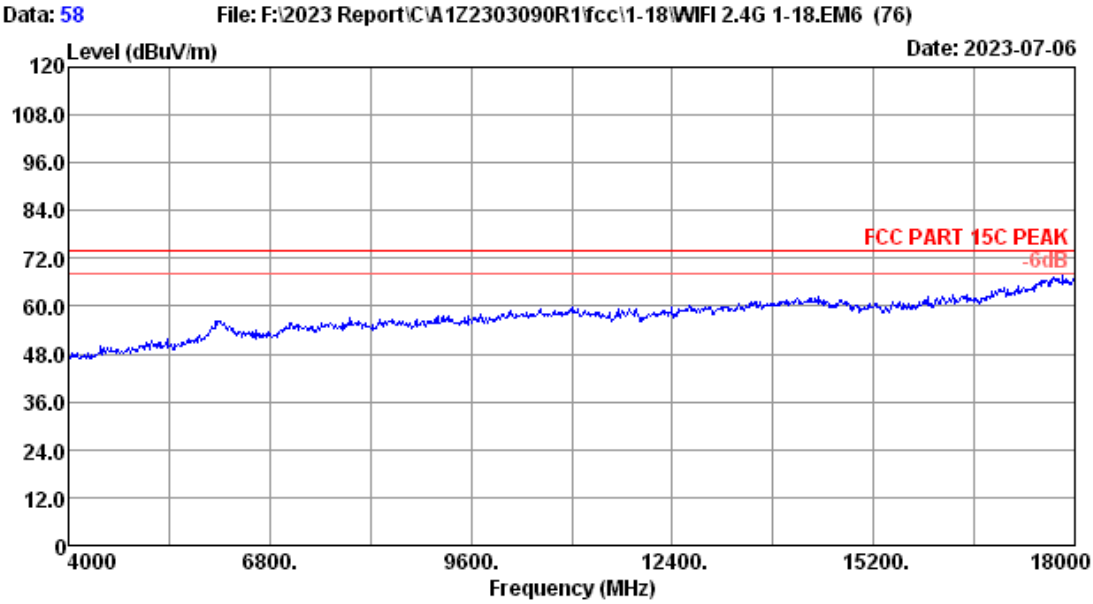
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



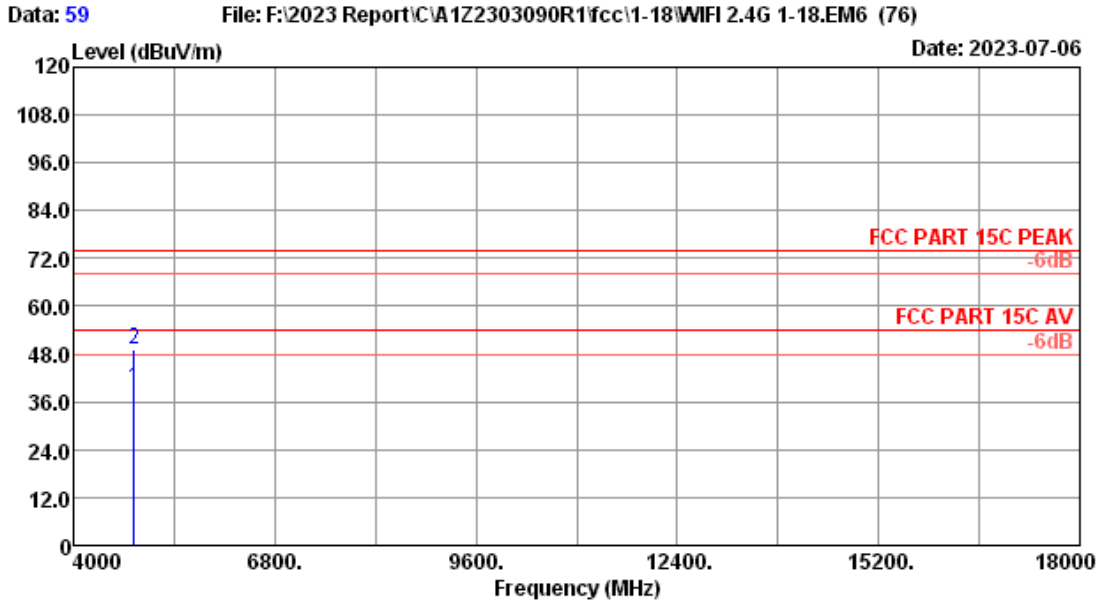
Site no. : 3m Chamber Data no. : 57
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n40 2422MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4844.00	31.30	6.52	33.68	34.75	38.89	54.00	15.11	Average
2	4844.00	31.30	6.52	33.68	45.05	49.19	74.00	24.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



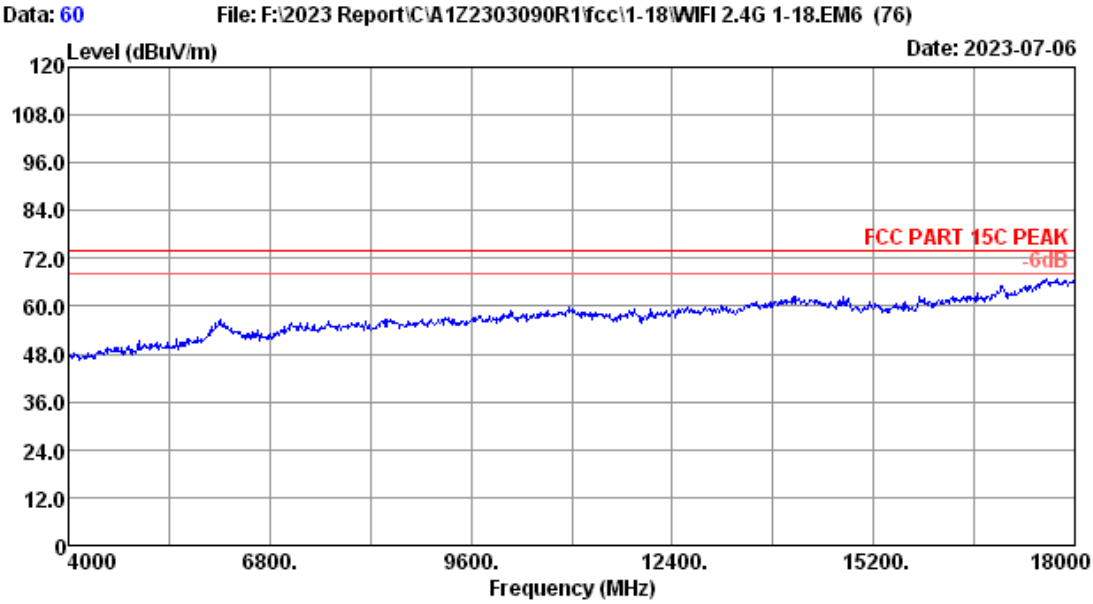
Site no.	: 3m Chamber	Data no.	: 58
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11n40 2422MHz TX		
	:		
	:		



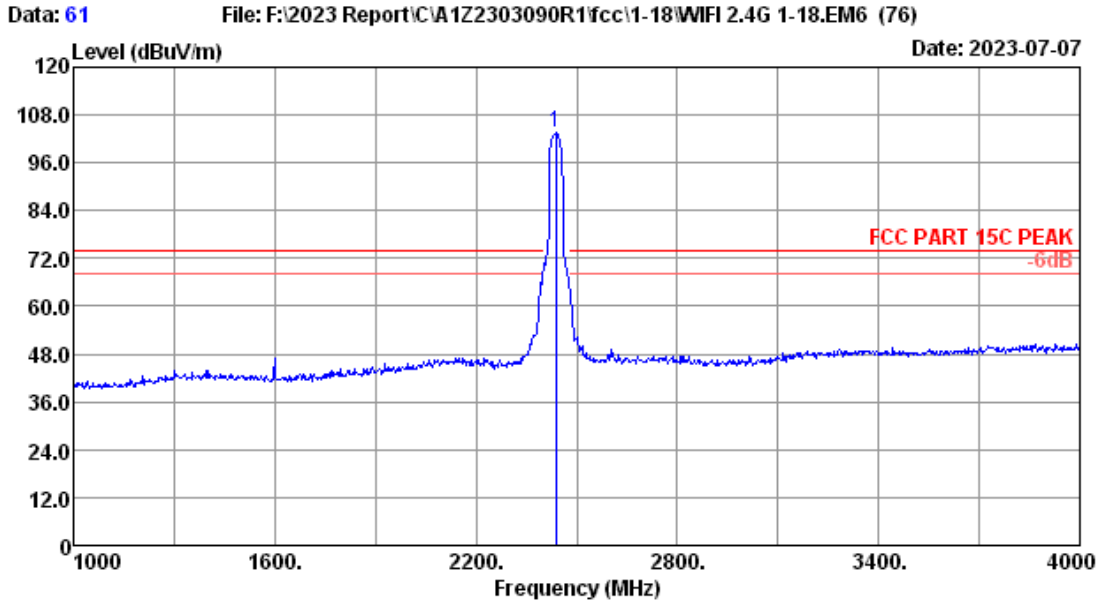
Site no. : 3m Chamber Data no. : 59
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n40 2422MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4844.00	31.30	6.52	33.68	35.13	39.27	54.00	14.73	Average
2	4844.00	31.30	6.52	33.68	45.23	49.37	74.00	24.63	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.




```
Site no.      : 3m Chamber                    Data no.   : 60
Dis. / Ant.   : 3m   2022 MCTD1209-3006       Ant. pol.  : VERTICAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : 23.2*C/52.5%                  Engineer   : nier
Test Mode     : Wifi2.4G 11n40 2422MHz TX
              :
              :
```

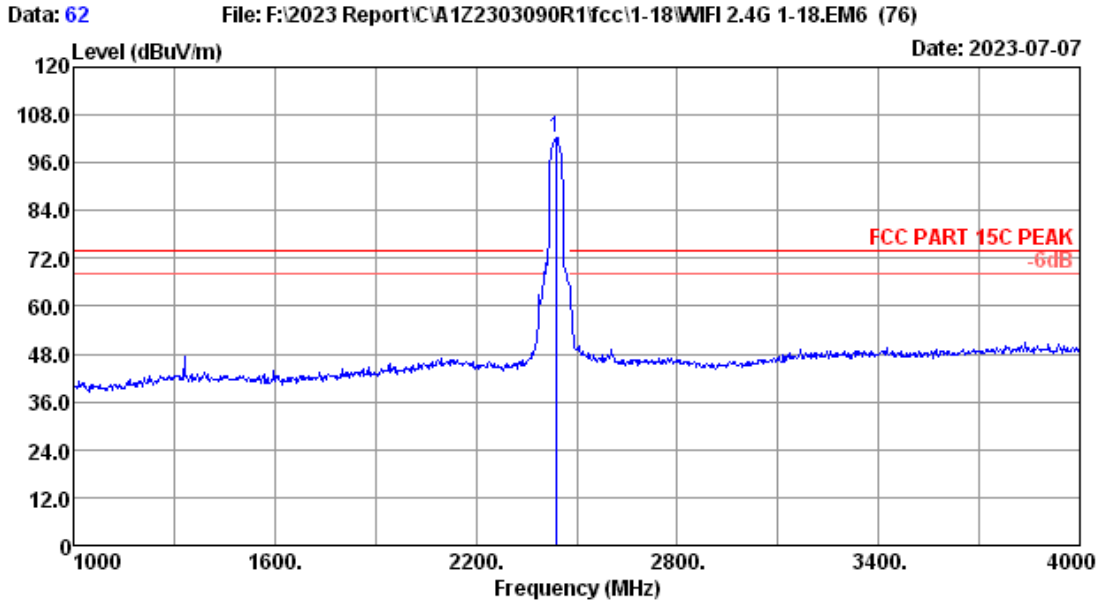


Site no. : 3m Chamber
Dis. / Ant. : 3m 2022 MCTD1209-3006
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5%
Test Mode : Wifi2.4G 11n40 2437MHz TX
:
:

Data no. : 61
Ant. pol. : HORIZONTAL
Engineer : nier

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.80	4.89	34.36	105.51	103.84	------	------	Peak

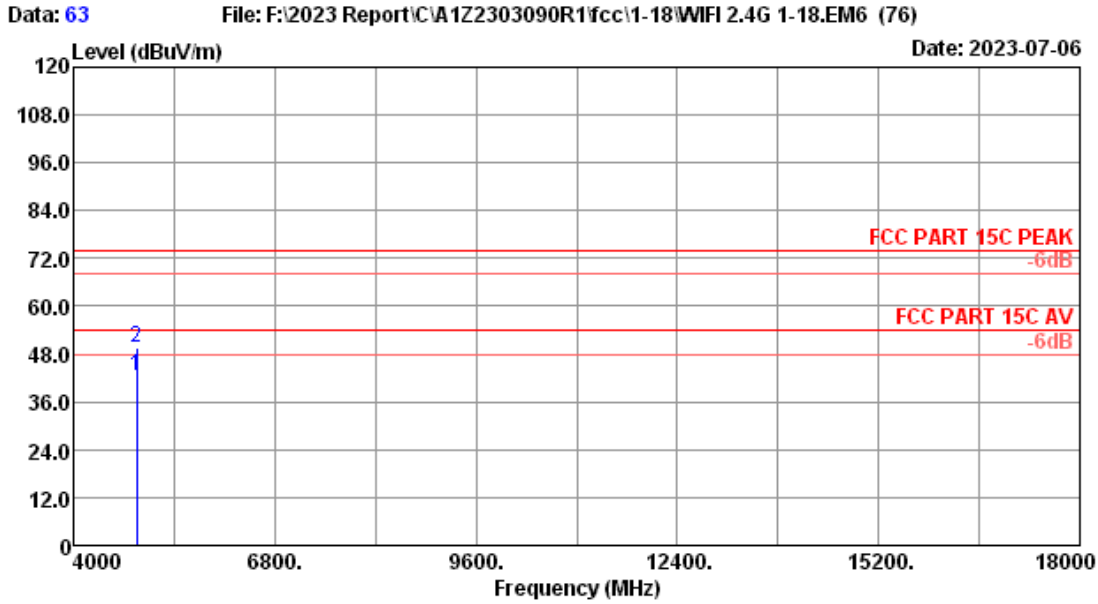
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 62
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n40 2437MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.80	4.89	34.36	104.13	102.46	------	------	Peak

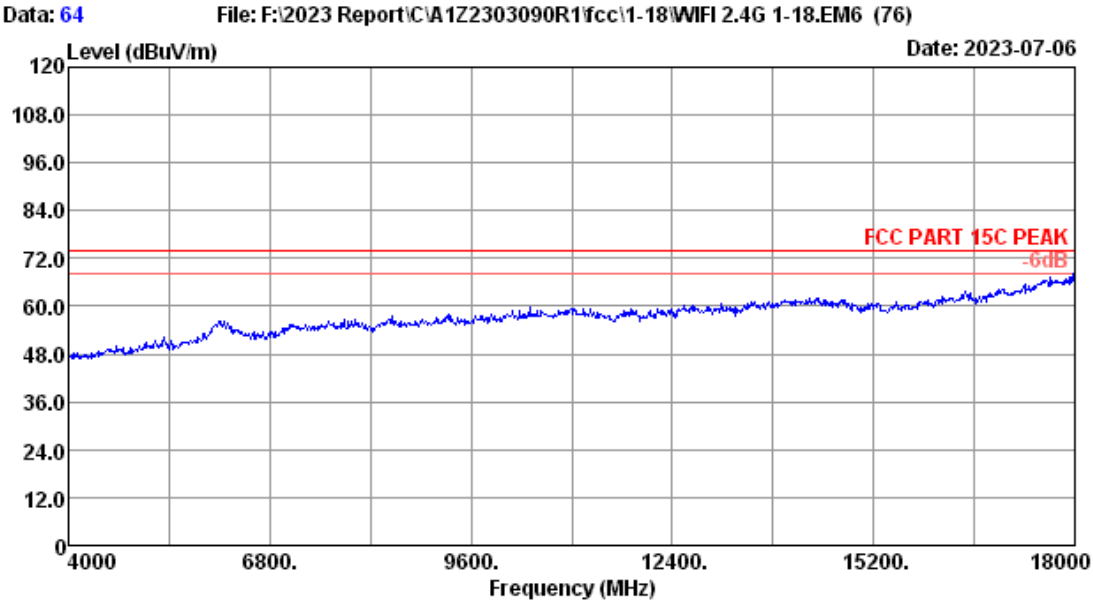
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



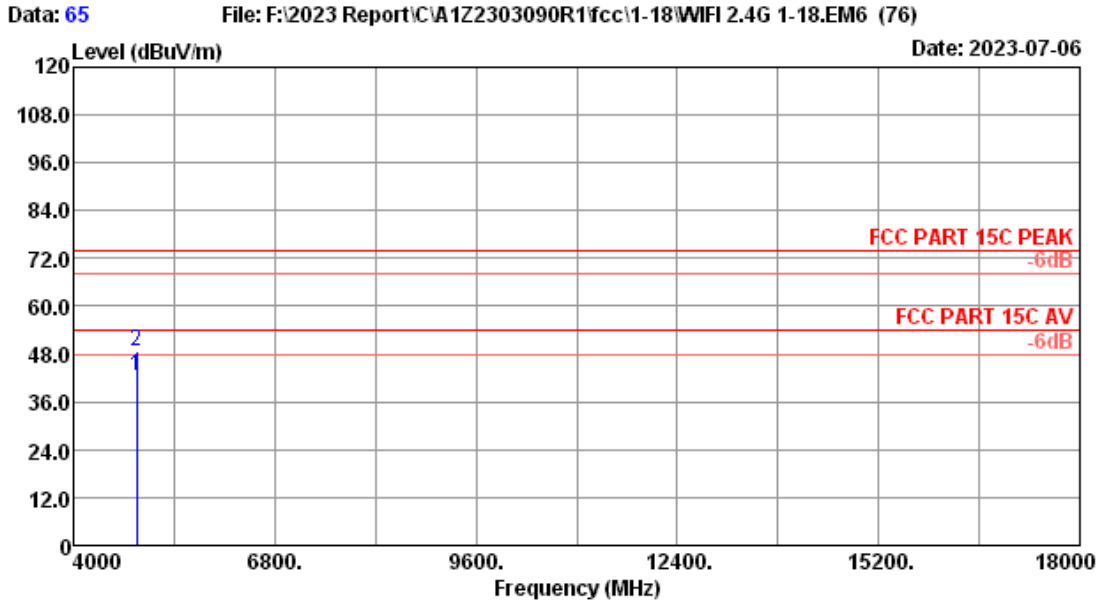
Site no. : 3m Chamber Data no. : 63
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n40 2437MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	31.43	6.54	33.69	38.24	42.52	54.00	11.48	Average
2	4874.00	31.43	6.54	33.69	45.42	49.70	74.00	24.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



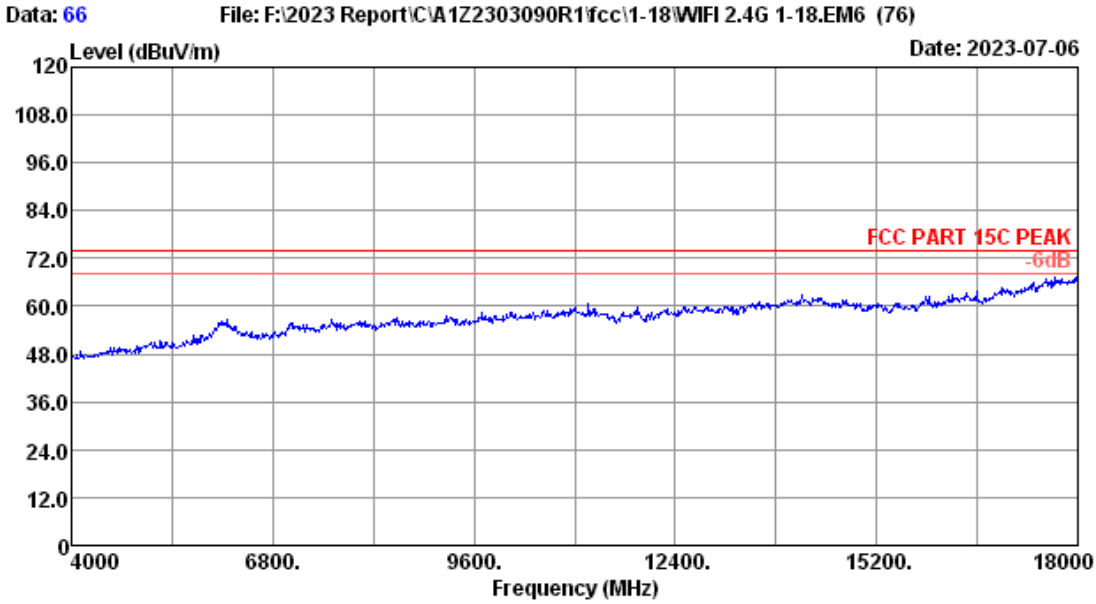
Site no.	: 3m Chamber	Data no.	: 64
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11n40 2437MHz TX		
	:		
	:		



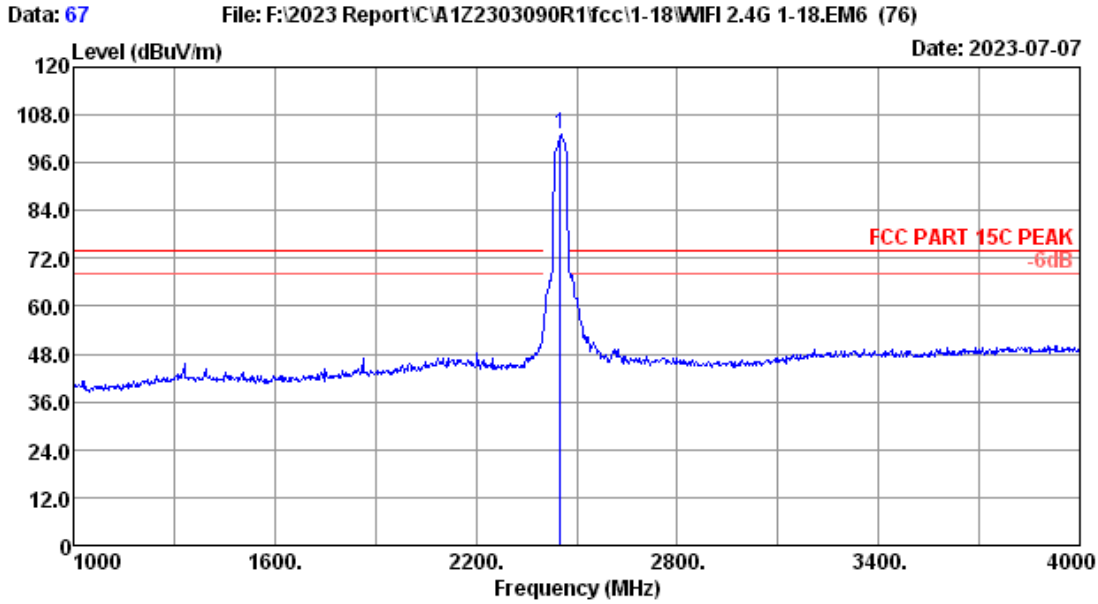
Site no. : 3m Chamber Data no. : 65
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n40 2437MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	31.43	6.54	33.69	38.21	42.49	54.00	11.51	Average
2	4874.00	31.43	6.54	33.69	44.35	48.63	74.00	25.37	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



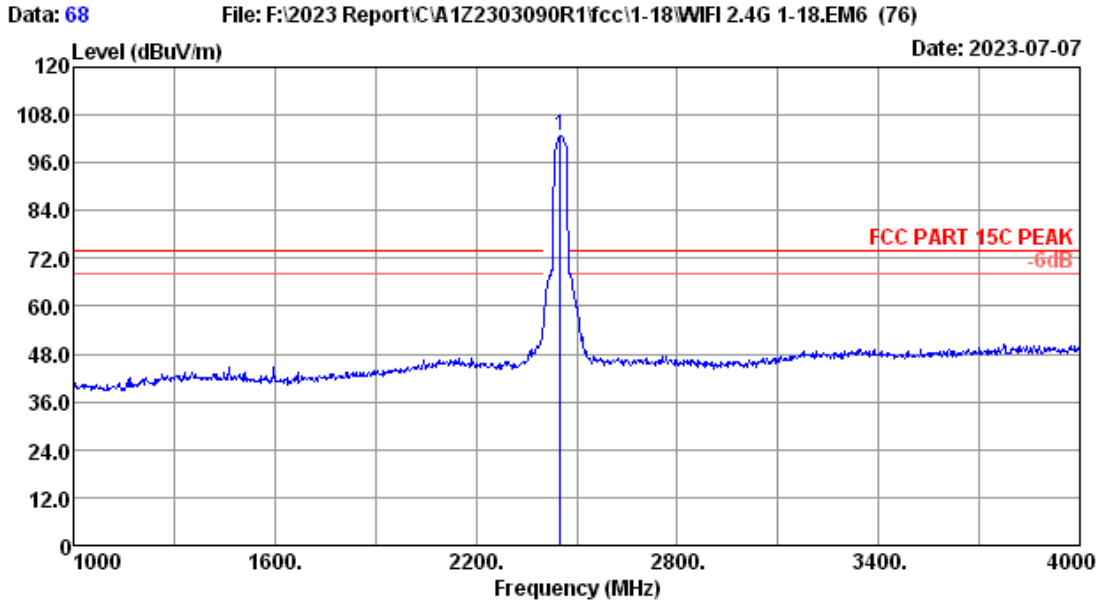
Site no.	: 3m Chamber	Data no.	: 66
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11n40 2437MHz TX		
	:		
	:		



Site no. : 3m Chamber Data no. : 67
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n40 2452MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.00	27.80	4.91	34.35	104.67	103.03	------	------	Peak

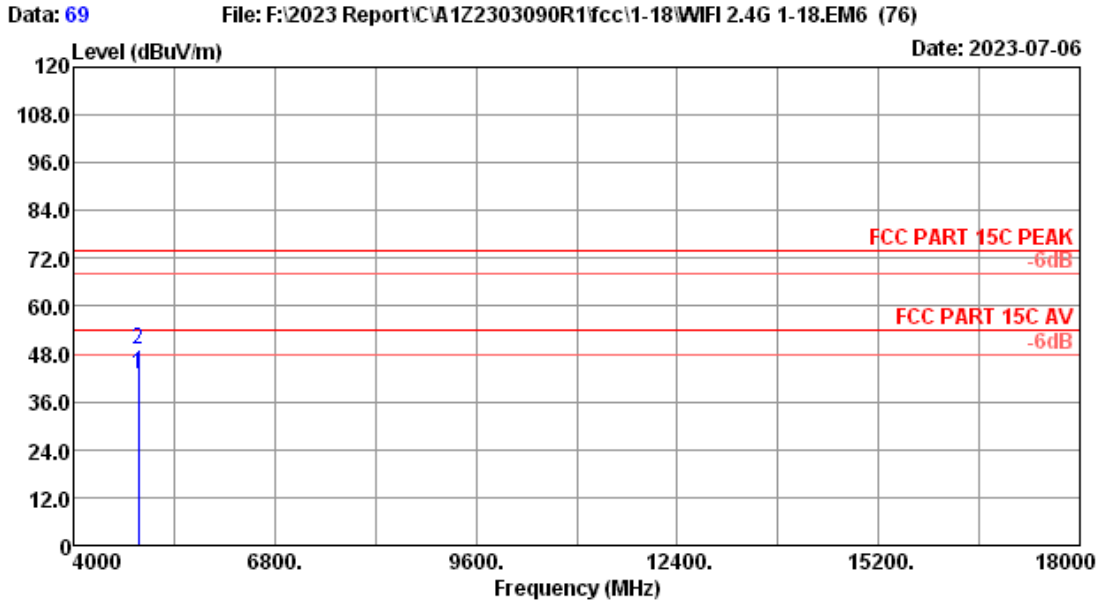
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 68
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n40 2452MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.00	27.80	4.91	34.35	104.39	102.75	------	------	Peak

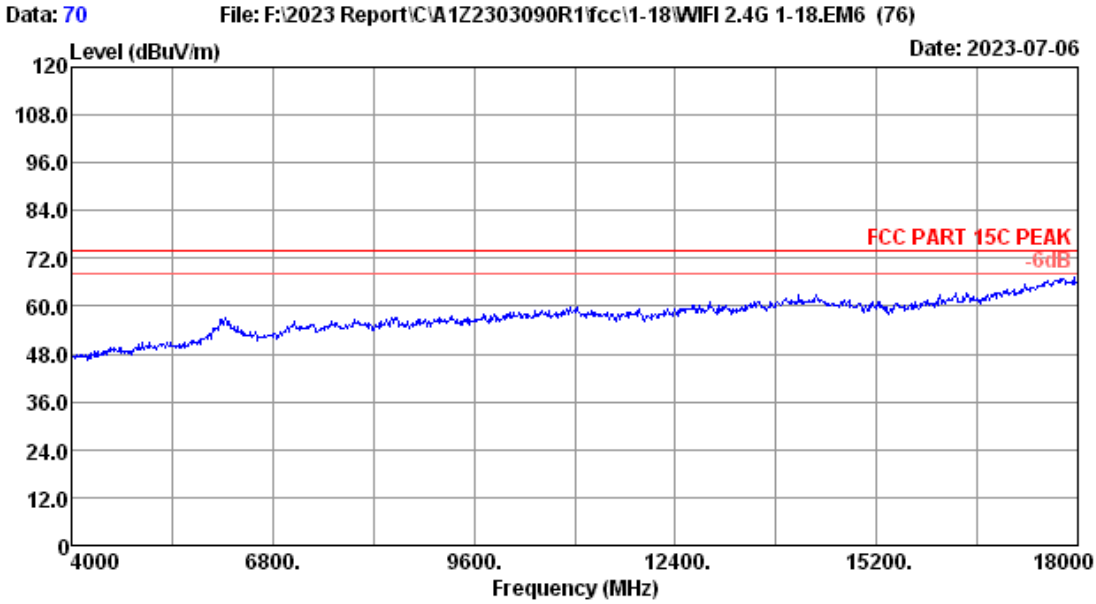
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



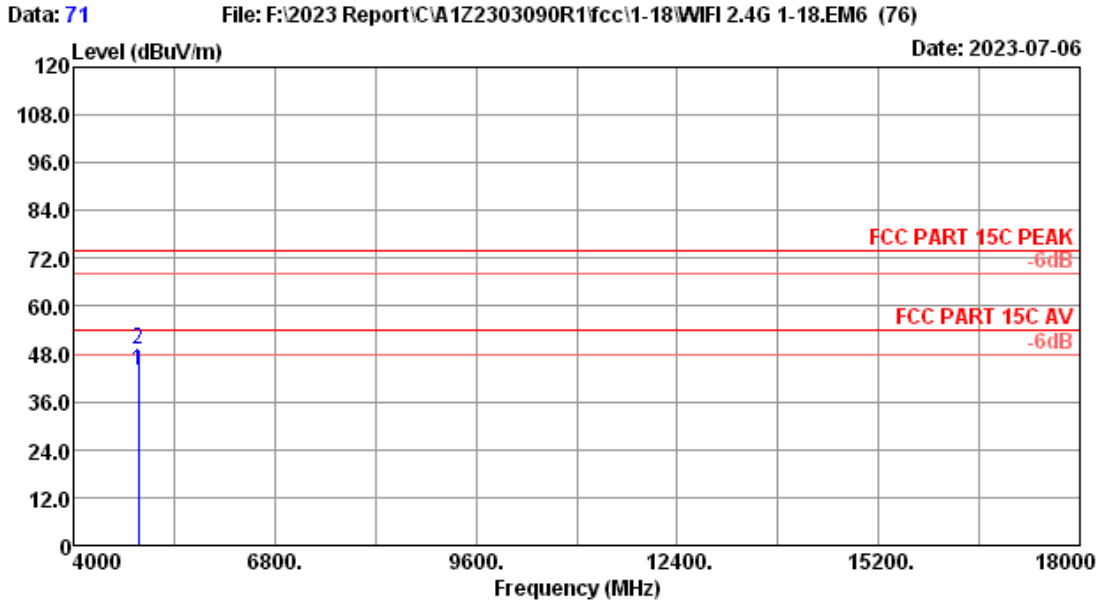
Site no. : 3m Chamber Data no. : 69
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n40 2452MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4904.00	31.60	6.55	33.69	38.52	42.98	54.00	11.02	Average
2	4904.00	31.60	6.55	33.69	44.50	48.96	74.00	25.04	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



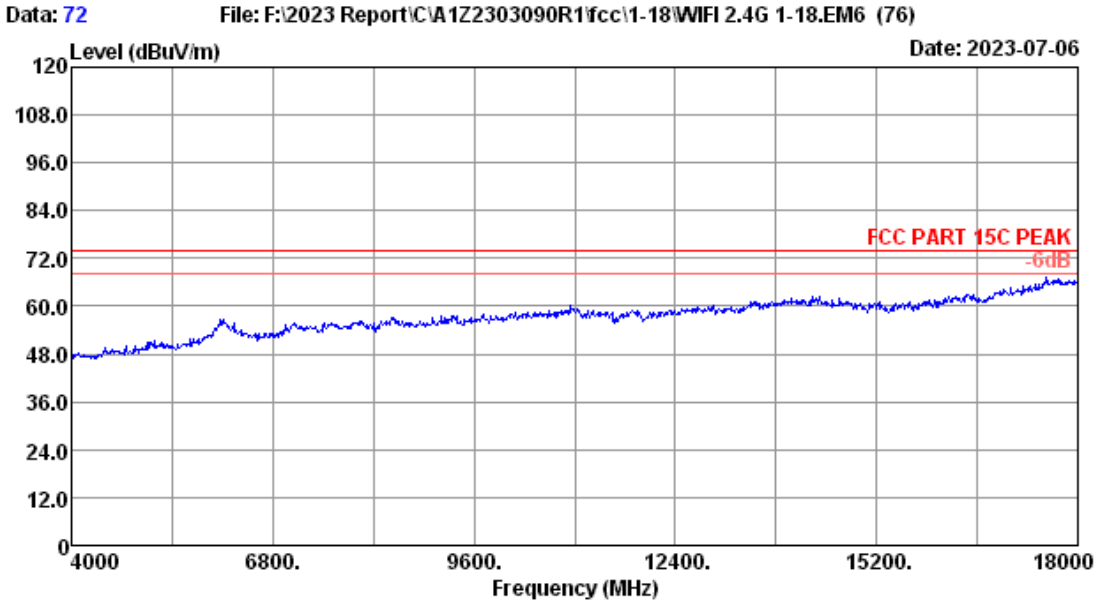

```
Site no.      : 3m Chamber                    Data no.   : 70
Dis. / Ant.   : 3m   2022 MCTD1209-3006       Ant. pol.  : VERTICAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : 23.2*C/52.5%                  Engineer   : nier
Test Mode     : Wifi2.4G 11n40 2452MHz TX
              :
              :
```



Site no. : 3m Chamber Data no. : 71
Dis. / Ant. : 3m 2022 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.2*C/52.5% Engineer : nier
Test Mode : Wifi2.4G 11n40 2452MHz TX
:
:

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4904.00	31.60	6.55	33.69	39.16	43.62	54.00	10.38	Average
2	4904.00	31.60	6.55	33.69	44.64	49.10	74.00	24.90	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 72
Dis. / Ant.	: 3m 2022 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.2*C/52.5%	Engineer	: nier
Test Mode	: Wifi2.4G 11n40 2452MHz TX		
	:		
	:		

5. CONDUCTED SPURIOUS EMISSIONS

5.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.01,23	1 Year
2.	RF Cable	HUBER+SUHNER	SUCOFLEX-106	505238/6	Apr.02,23	1 Year

5.2.Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

5.3.Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions with peak detector.

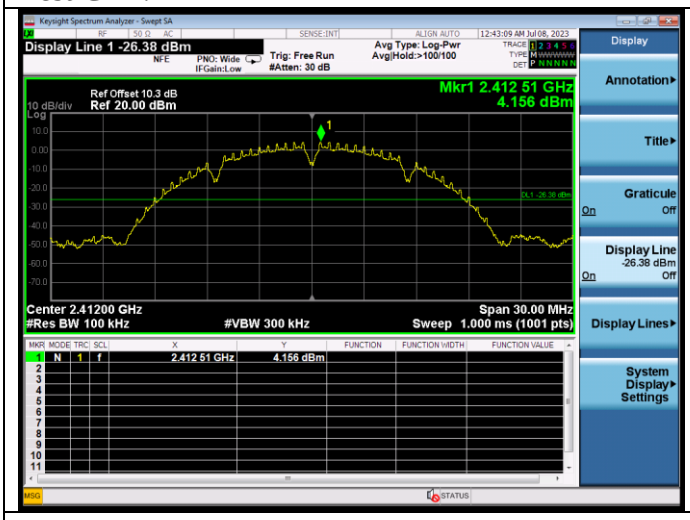
5.4.Test result

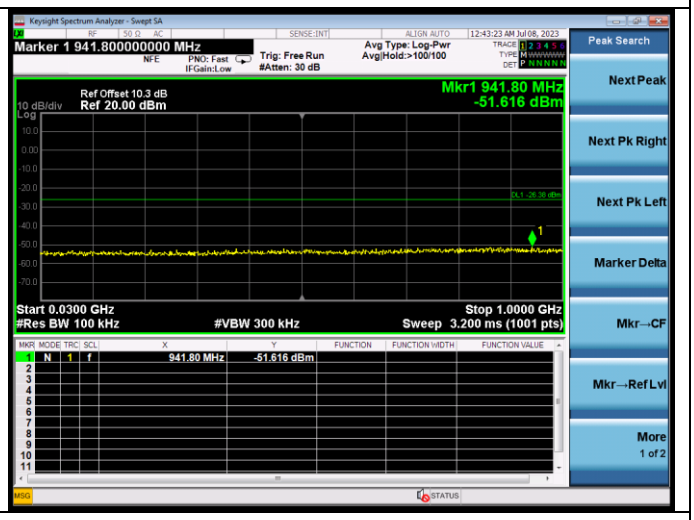
PASS (The testing data was attached in the next pages.)

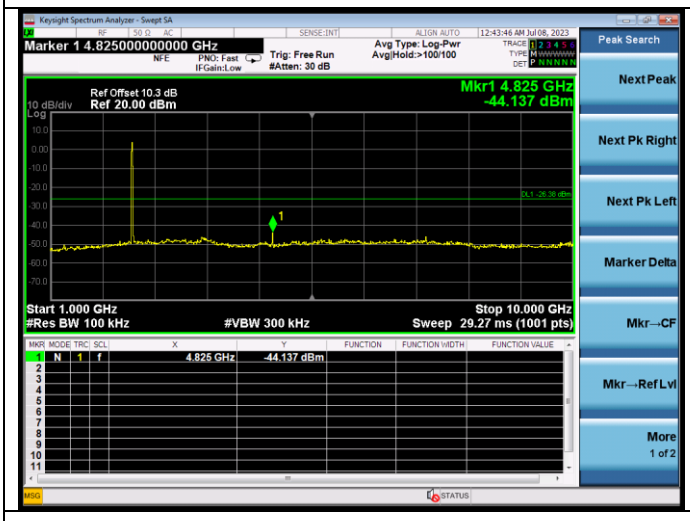
ANT A

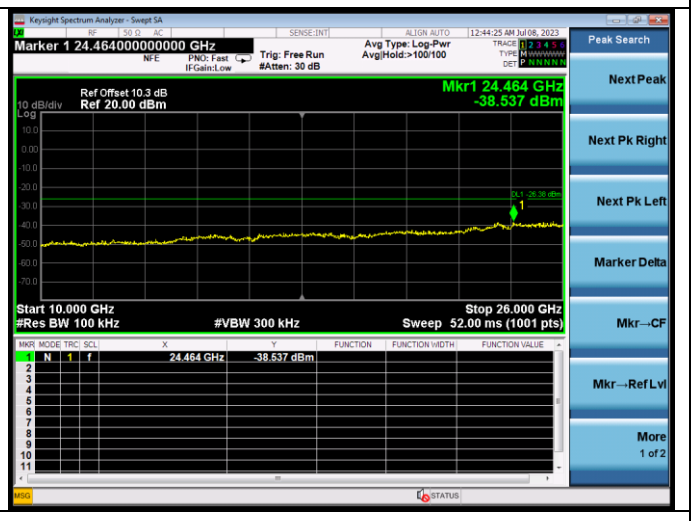
Test Mode: IEEE 802.11b

Test CH1: 2412MHz

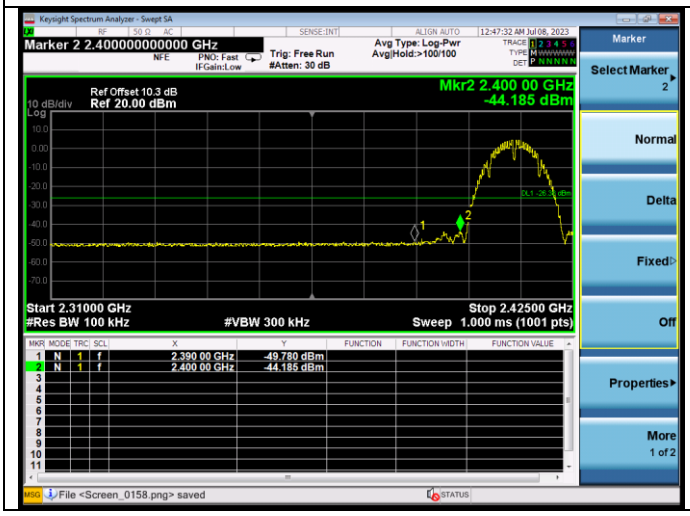


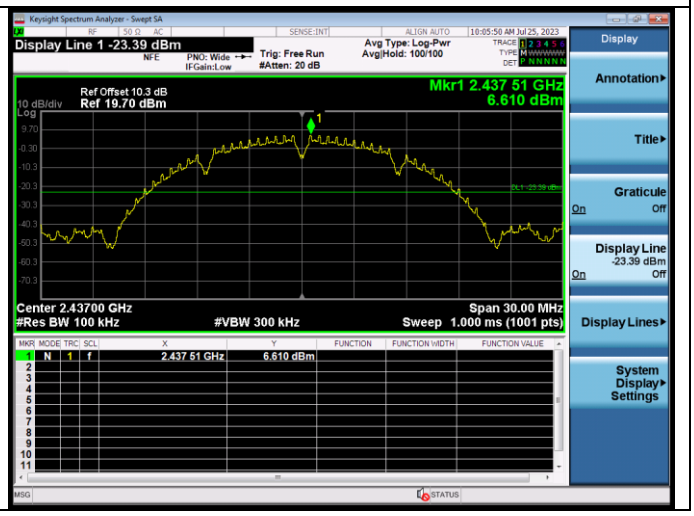


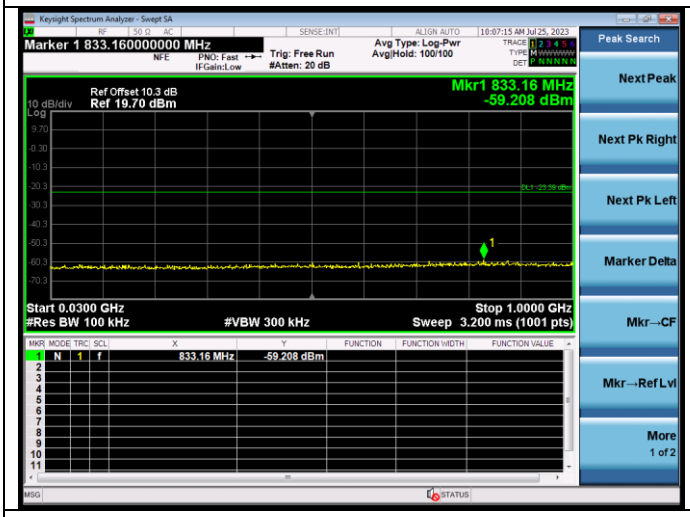


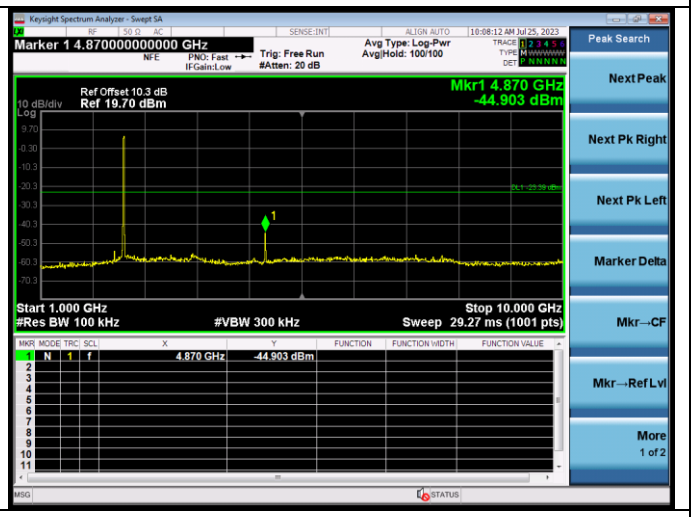


Test CH6: 2437MHz

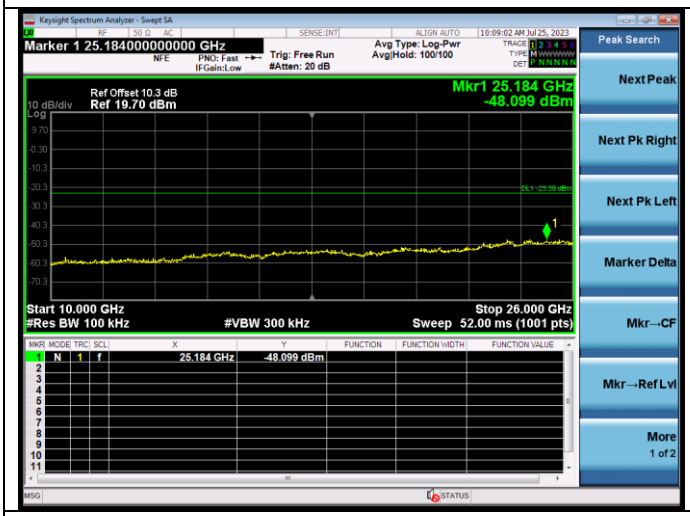


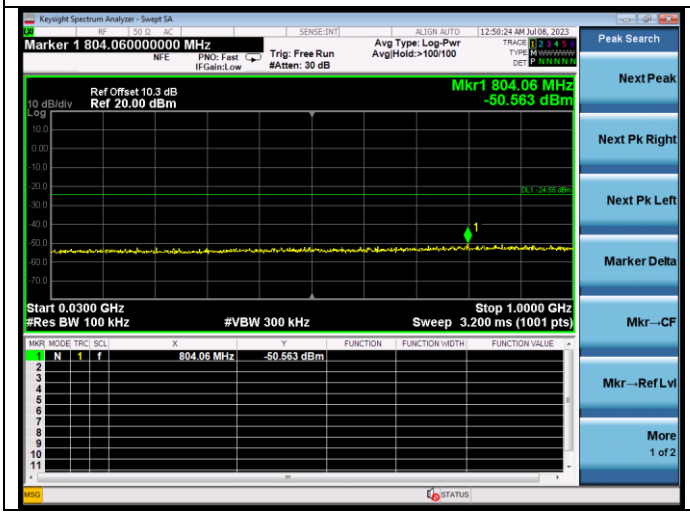


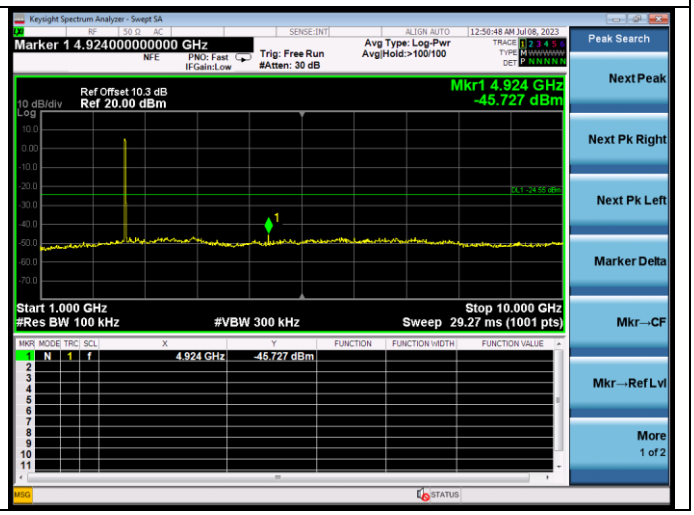


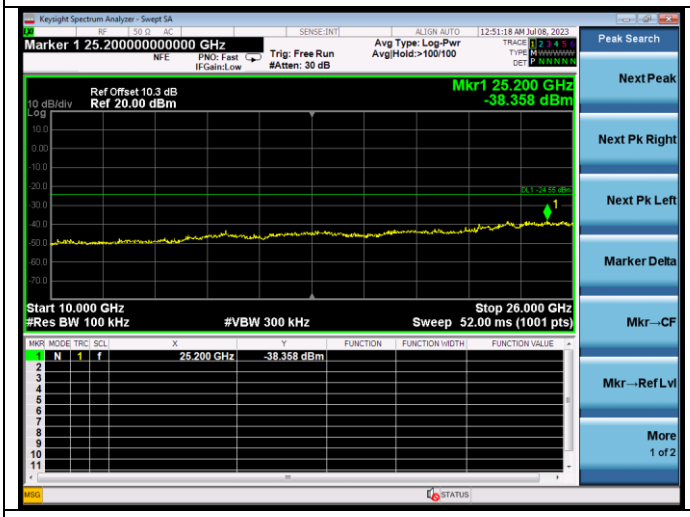


Test CH11: 2462MHz

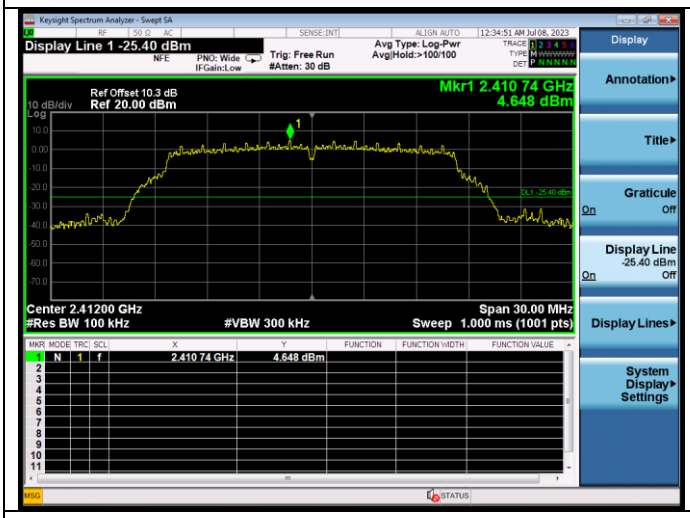


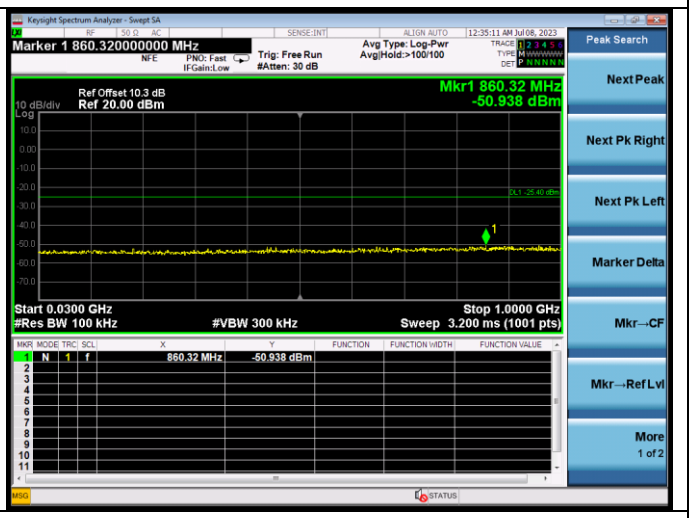


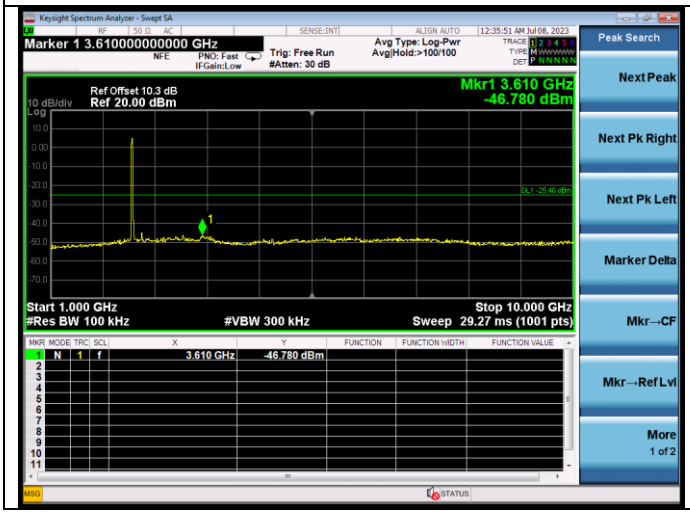


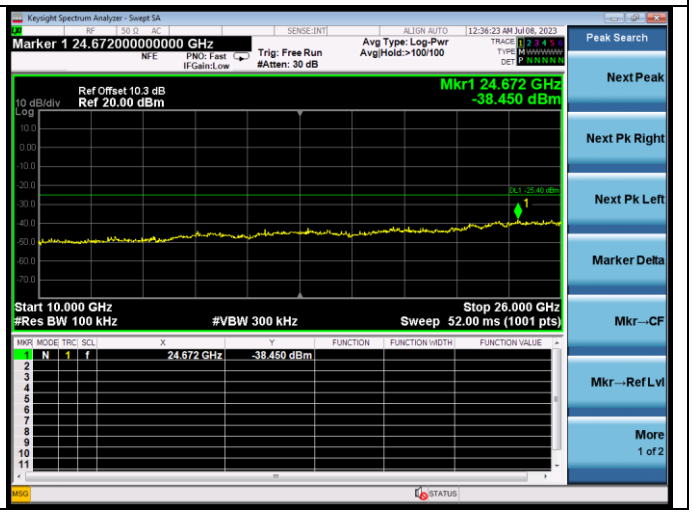


Test Mode: IEEE 802.11g
Test CH1: 2412MHz

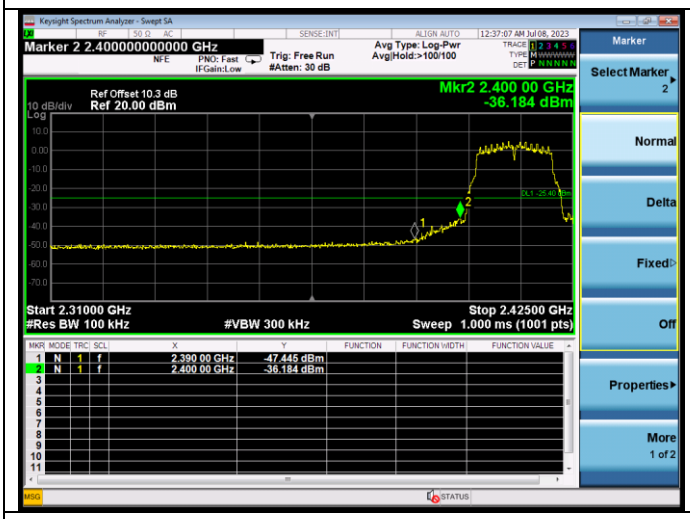


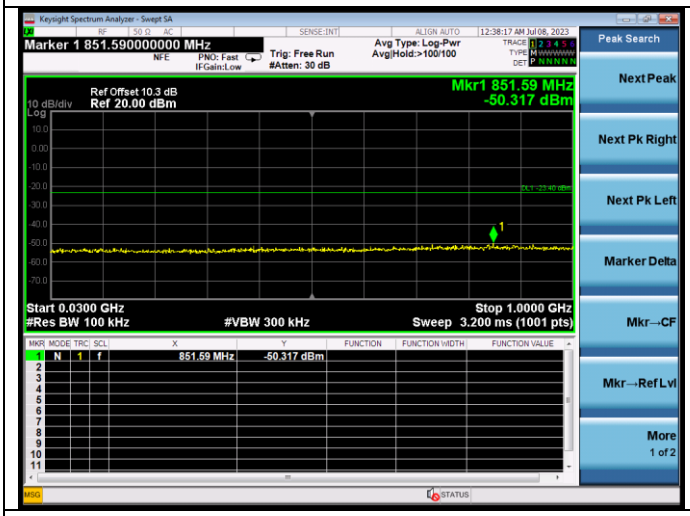


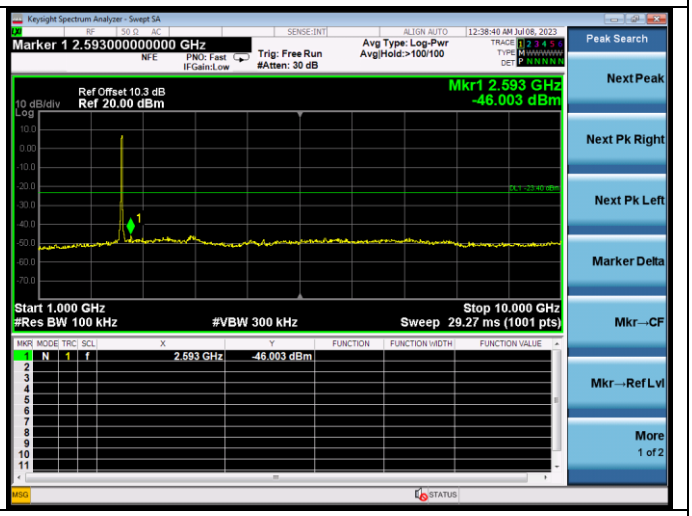




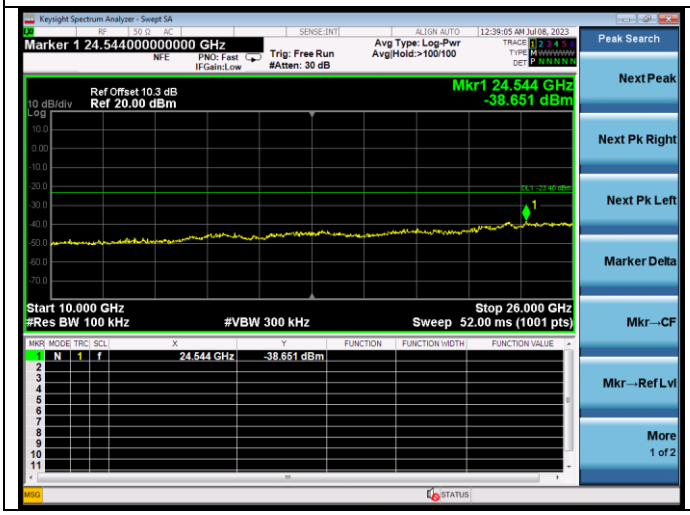
Test CH6: 2437MHz

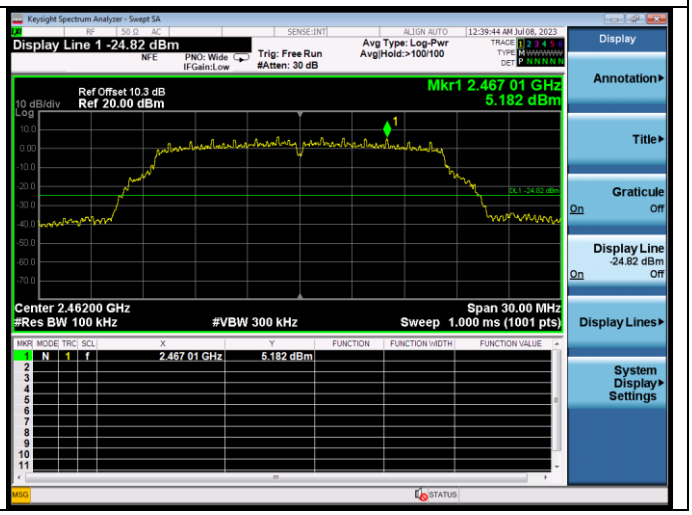


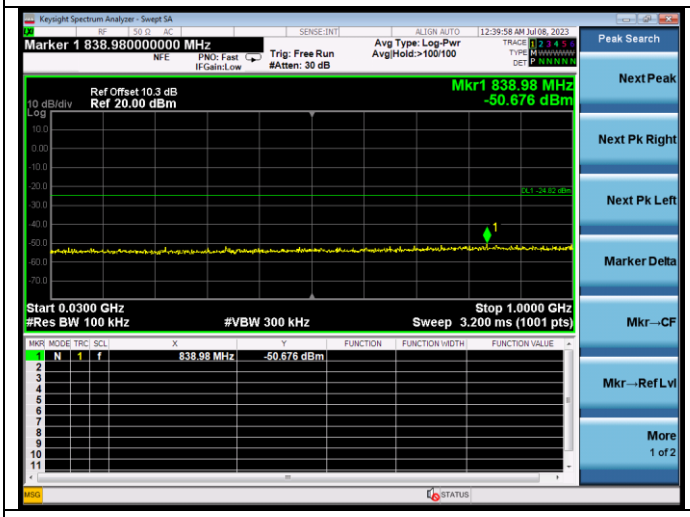


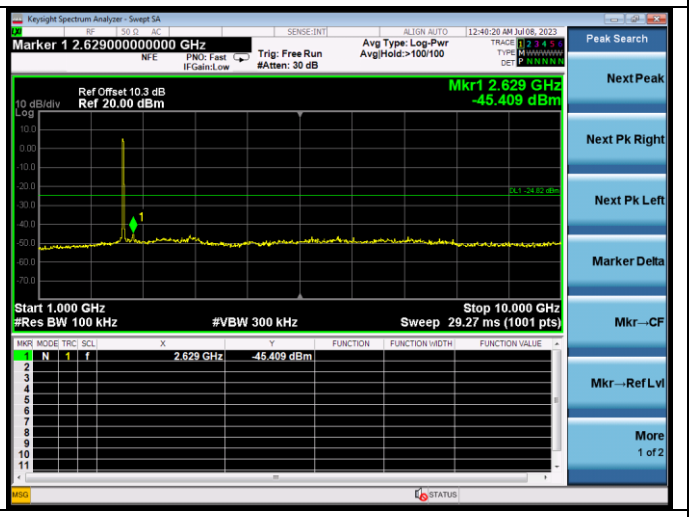
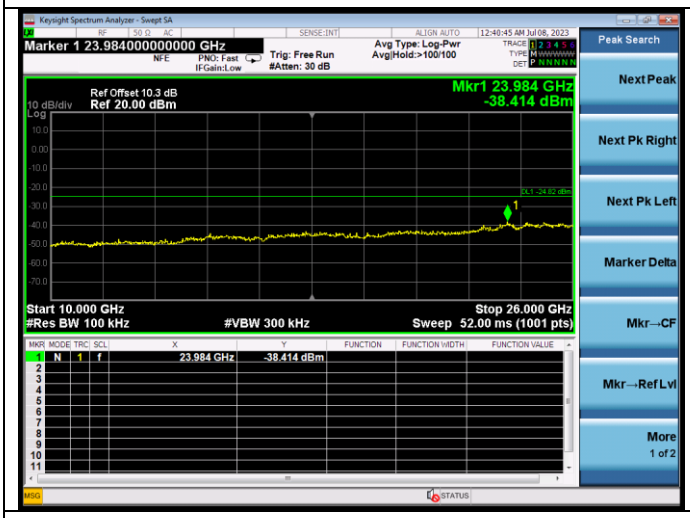
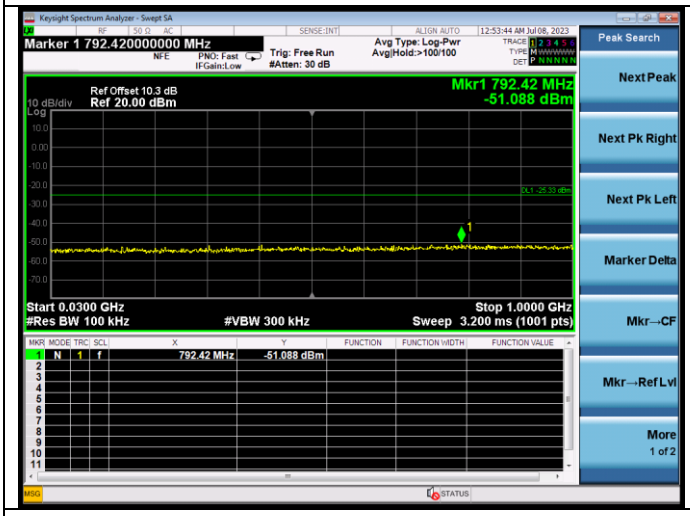


Test CH11: 2462MHz









Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz