

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

PHROZEN TECH CO.,LTD.

Desktop 3D Printer

Phrozen Sonic CS+ 3D Printer

FCC ID: 2BCTP-CSPLUS

Brand: 

Prepared for : PHROZEN TECH CO.,LTD.
3F., NO.287, NIUPU RD., XIANGSHAN DIST., HSINCHU
CITY 300059. TAIWAN

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Report Number : ACS-F25045
Date of Test : May.20~Jun.05, 2025
Date of Report : Jun.27, 2025

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Appendix A. Photograph of Test

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TEST REPORT

Applicant : PHROZEN TECH CO.,LTD.
Manufacturer : PHROZEN TECH CO.,LTD.
Product : Desktop 3D Printer
FCC ID : 2BCTP-CSPLUS
(A) Model No. : Phrozen Sonic CS+ 3D Printer
(B) Brand : 
(C) Test Voltage : AC 120V/60Hz

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

Test procedure used:
ANSI C63.10:2020+Cor1:2023
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: May.20~Jun.05, 2025 Date of Report: Jun.27, 2025

Prepared by: Olivia Liu Reviewed by: Thomas Chen
Olivia Liu / Assistant Thomas Chen / Assistant Manager

Approved & Authorized Signer:



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 not considered, the EUT is technically compliant with standard requirements.

2. GENERAL INFORMATION

2.1. Description of Equipment Under Test

Applicant	PHROZEN TECH CO.,LTD.
Applicant Address	3F., NO.287, NIUPU RD., XIANGSHAN DIST., HSINCHU CITY 300059. TAIWAN
Manufacturer	PHROZEN TECH CO.,LTD.
Manufacturer Address	3F., NO.287, NIUPU RD., XIANGSHAN DIST., HSINCHU CITY 300059. TAIWAN
Product	Desktop 3D Printer
Model No.	Phrozen Sonic CS+ 3D Printer
Brand	
FCC ID	2BCTP-CSPLUS
Sample Type	Prototype production
Date of Receipt	Mar.17, 2025
Date of Test	May.20~Jun.05, 2025
Remark: This report only for WIFI 2.4GHz.	

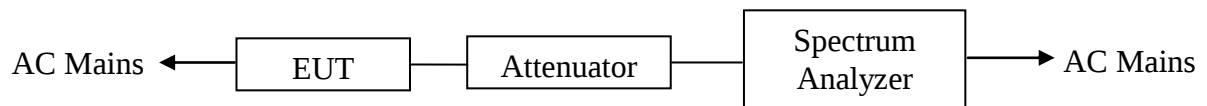
2.2.Feature of Equipment Under Test

Product Feature & Specification	
Product	Desktop 3D Printer
Model No.	Phrozen Sonic CS+ 3D Printer
Power Source	100-240V AC; 50-60Hz max 300W
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
Antenna System	
Type of Antenna	External rubber stick antenna
Antenna Number	1
Antenna Peak Gain	WIFI 2.4GHz Peak Gain: 4.47dBi WIFI 5GHz Peak Gain B1: 4.71dBi; B4: 3.86dBi
Remark: This report is for Wi-Fi 2.4GHz radio specification only. EUT also supports other radio specification as below listed: Wi-Fi 2.4GHz (Test report No. ACS-F25143) Wi-Fi 5GHz (Test report No. ACS- F25144)	

2.3. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Notebook	N/A	ACER	ZOW	N/A
		Power Cord(3C): Unshielded, Detachable, 1.8m Power Adapter: Manufacturer: Lite-On, M/N: PA-1900-32 Data Cable: Shielded, Undetectable, 4.0m(Bond one ferrite core)			

2.4. Block diagram of connection between the EUT and simulators



(EUT: Desktop 3D Printer)

2.5.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room(SE)	AUDIX	N/A	N/A	Nov.09,22	3 Year
2.	3m Chamber(NSA)	AUDIX	N/A	N/A	Aug.11,22	3 Year
3.	3m Chamber(SE)	AUDIX	N/A	N/A	Sep.16,22	3 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESCI	100842	Mar.10,25	1 Year
5.	Signal Analyzer	Rohde & Schwarz	FSV40	101608	Nov.07,24	1 Year
6.	L.I.S.N.#1	Rohde & Schwarz	ENV216	102160	Jun.19,24	1 Year
7.	RF Cable	Eastsheep	RG223	190424	Sep.13,24	1Year
8.	Tri-log-Broadband Antenna	SCHWARZBECK	VULB 9168	01313	Sep.26,24	1 Year
9.	NSA Cable	HUBER+SUHNER	CFD400NL-LW	No.3+190411	Sep.13,24	1 Year
10.	Coaxial Switch	Anritsu	MP59B	6201397223	Mar.10,25	1 Year
11.	RF Cable	TIMES MICROWAVE	SFT205-NMSM-1 0.00M	689241	Aug.13,24	1 Year
12.	EMI Test Receiver	Rohde & Schwarz	ESR3	101931	Mar.10,25	1 Year
13.	Amplifier	EMCI	EMC0518A45SE	980965	Aug.13,24	1 Year
14.	Amplifier	KEYSIGHT	83017A	39500711	Mar.10,25	1 Year
15.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Mar.10,25	1 Year
16.	RF Cable	EMCI	EMCCFD400-NM -NM-2500	No.4+190413	Mar.10,25	1 Year
17.	Attenuator(10dB)	eastsheep	2W-SMA-JK-6G-10dB	No. 4	Sep.15,24	1 Year
18.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Mar.10,25	1 Year
19.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	Sep.08,24	1 Year

Note: N/A means Not applicable.

2.6. Test Information

A special test software (PuTTY Release 0.78) was used to control EUT work in Continuous TX mode (The duty cycle of the test signal is 100%), 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)
IEEE 802.11b	1	CH1	2412
	1	CH6	2437
	1	CH11	2462
IEEE 802.11g	6	CH1	2412
	6	CH6	2437
	6	CH11	2462
IEEE 802.11n HT20	MCS0	CH1	2412
	MCS0	CH6	2437
	MCS0	CH11	2462
IEEE 802.11n HT40	MCS0	CH3	2422
	MCS0	CH6	2437
	MCS0	CH9	2452
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.			

2.7. 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, 2026

: Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2026

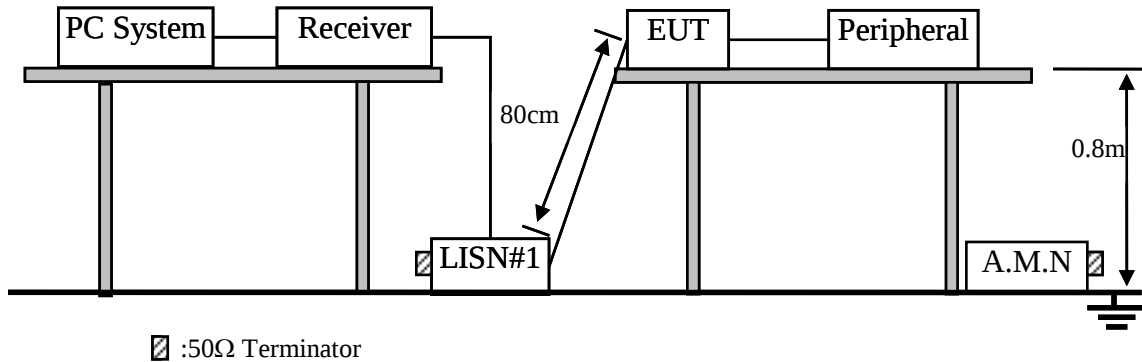
: Certificated by FCC, USA
Designation No: CN5022
Valid Date: Aug.03, 2025

2.8. 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	$\pm 3.8\text{dB}$ (30~200MHz, Polarization: H)
	$\pm 3.8\text{dB}$ (30~200MHz, Polarization: V)
	$\pm 4.0\text{dB}$ (200M~1GHz, Polarization: H)
	$\pm 4.0\text{dB}$ (200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber(1GHz-25GHz)	$\pm 4.0\text{dB}$ (1~6GHz, Distance: 3m)
	$\pm 4.0\text{dB}$ (6~25GHz, Distance: 3m)
Uncertainty for S_{VSWR} in 3m chamber	$\pm 2.8\text{dB}$ (1~6GHz, Distance: 3m)
	$\pm 2.8\text{dB}$ (6~25GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	$\pm 3.7\text{dB}$ (30MHz~1000MHz)
	$\pm 3.3\text{dB}$ (1~26.5GHz)
Uncertainty for Conduction Spurious emission test	$\pm 2.0\text{dB}$
Uncertainty for Output power test	$\pm 0.8\text{dB}$
Uncertainty for Bandwidth test	$\pm 83\text{kHz}$
Uncertainty for DC power test	$\pm 1\%$
Uncertainty for test site temperature and humidity	$\pm 0.6^{\circ}\text{C}$
	$\pm 3\%$

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Block Diagram of Test Setup



3.2. 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 limits shall apply at the transition frequencies.

3. Emission Level (dBμV) = Factor (L.I.S.N.) (dB) + Cable Loss (dB) + Reading (Receiver) (dBμV)

3.3. 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.

3.3.1. Desktop 3D Printer (EUT)

Model No. : Phrozen Sonic CS+ 3D Printer

Serial No. : N/A

3.3.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT as shown as Section 3.1.
- 3.4.2. Turn on the power of EUT.
- 3.4.3. PC run test software to control EUT work in Tx mode.

3.5. Test Procedure

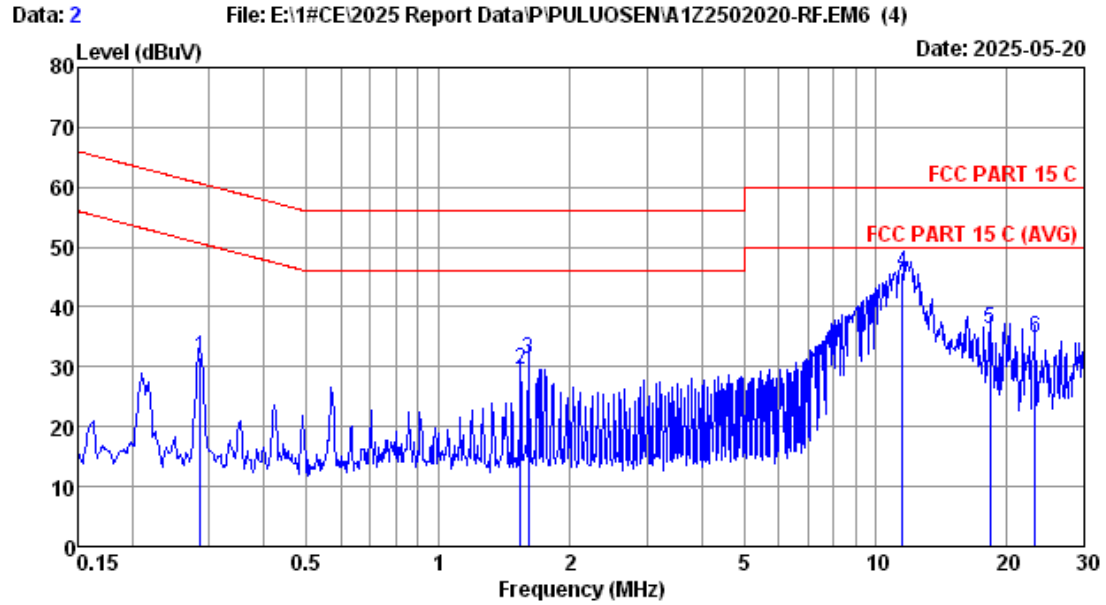
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via Adapter unit connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and 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 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

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

3.6. Power Line Conducted Emission Test Results

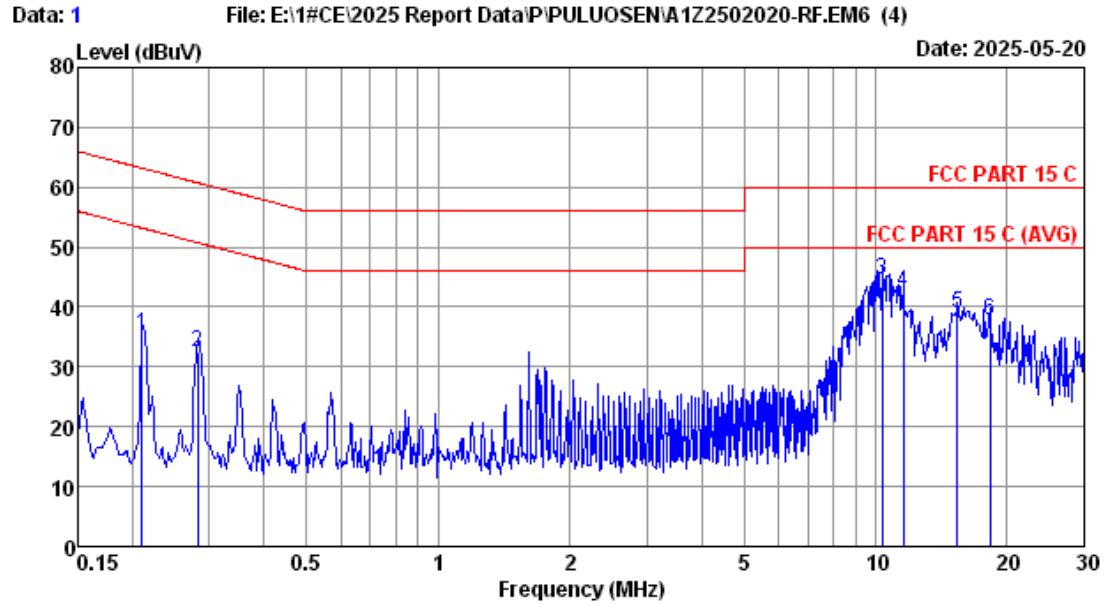
PASS. (All emissions not reported below are too low against the prescribed limits.)



Site no :1# CE Data No :2
 Dis./Lisn :2024 ENV216-L
 Limit :FCC PART 15 C
 Env./Ins. :23.7°C/50% Engineer :Hongjie
 Power Rating :
 Test Mode :WIFI2.4G TX MODE

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.286	9.76	0.01	21.85	31.62	60.63	29.01	QP
2	1.544	9.78	0.02	19.58	29.38	56.00	26.62	QP
3	1.610	9.78	0.02	21.61	31.41	56.00	24.59	QP
4	11.498	9.86	0.06	35.70	45.62	60.00	14.38	QP
5	18.232	9.89	0.08	26.37	36.34	60.00	23.66	QP
6	23.140	9.88	0.09	24.99	34.96	60.00	25.04	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 Data No :1
 Dis./Lisn :2024 ENV216-N
 Limit :FCC PART 15 C
 Env./Ins. :23.7°C/50% Engineer :Hongjie
 Power Rating :
 Test Mode :WIFI2.4G TX MODE

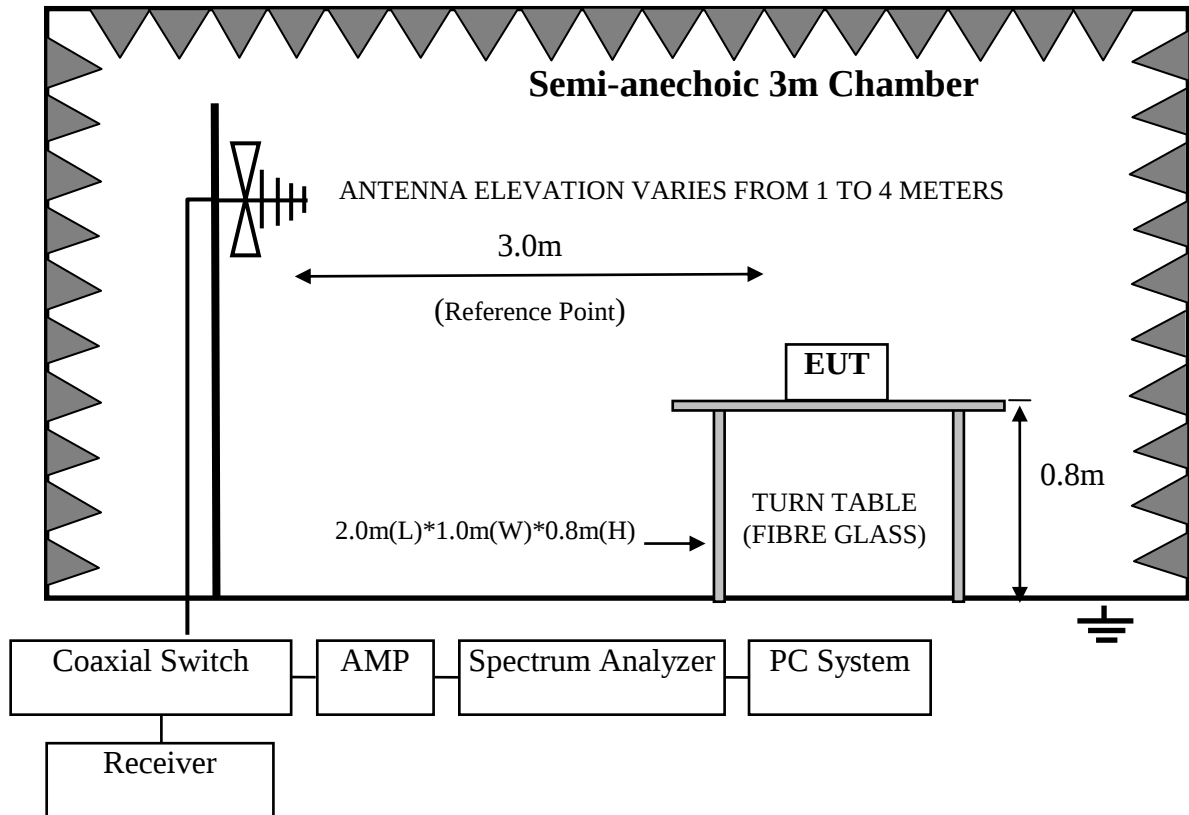
No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.211	9.78	0.01	25.68	35.47	63.18	27.71	QP
2	0.282	9.78	0.01	22.60	32.39	60.76	28.37	QP
3	10.342	9.88	0.05	34.58	44.51	60.00	15.49	QP
4	11.559	9.89	0.06	32.44	42.39	60.00	17.61	QP
5	15.388	9.90	0.07	28.86	38.83	60.00	21.17	QP
6	18.232	9.91	0.08	27.85	37.84	60.00	22.16	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.

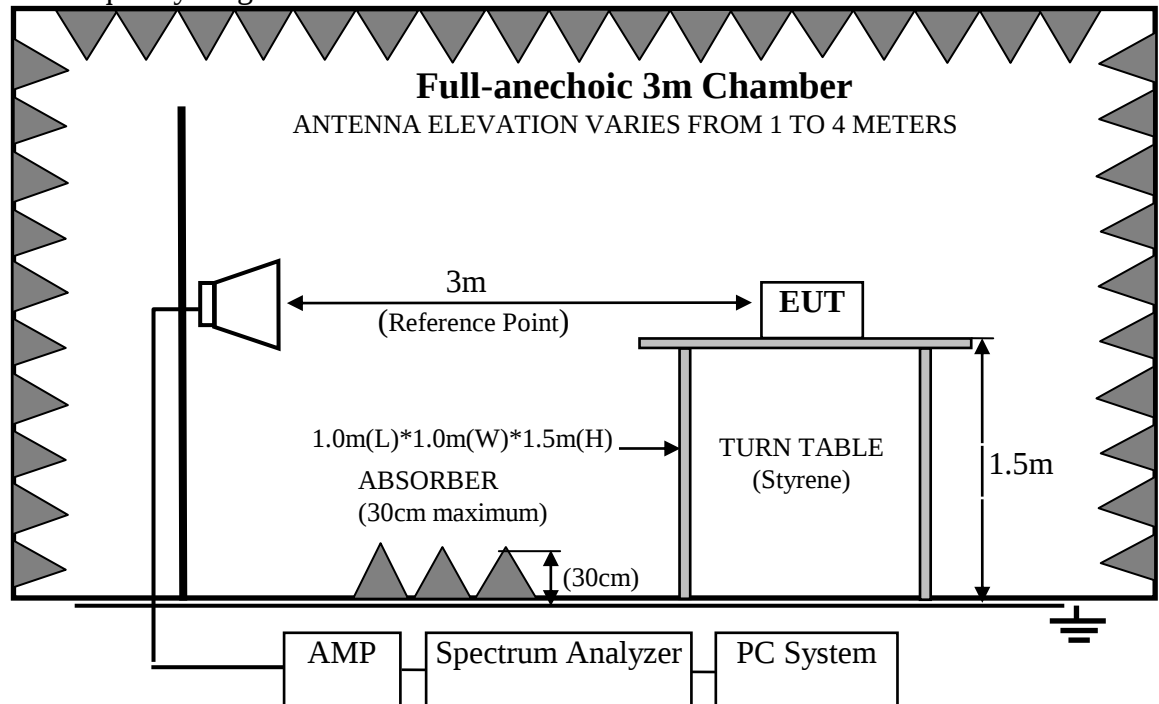
4. RADIATED EMISSION TEST

4.1. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.2. Radiated Emission Limits

4.2.1. 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.

4.2.2. 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.

4.3. 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.

4.3.1. Desktop 3D Printer (EUT)

Model No. : Phrozen Sonic CS+ 3D Printer

Serial No. : N/A

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

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT and simulator as shown as Section 4.1.
- 4.4.2. Turn on the power of all equipments.
- 4.4.3. Let EUT work in Tx(WiFi 2.4GHz) mode

4.5. 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 regulation.

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 Horn 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 when EUT in X position as test photo indicated.

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.

4.6. Radiated Emission Test Results

PASS.

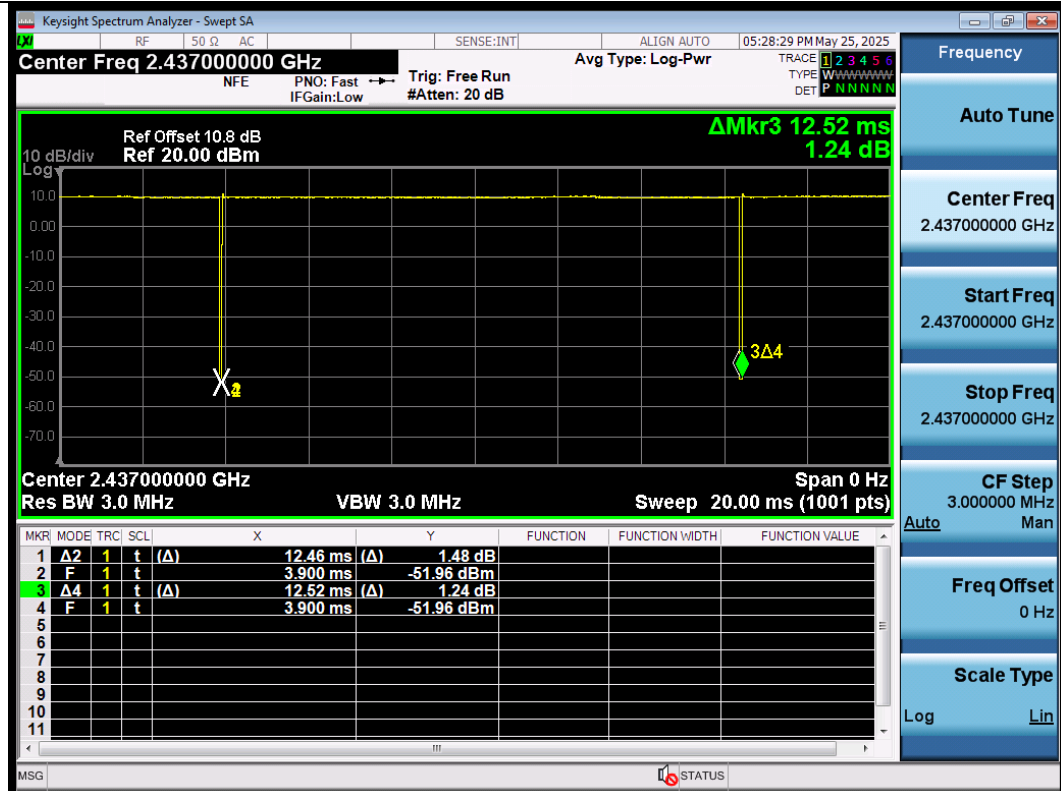
All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

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.

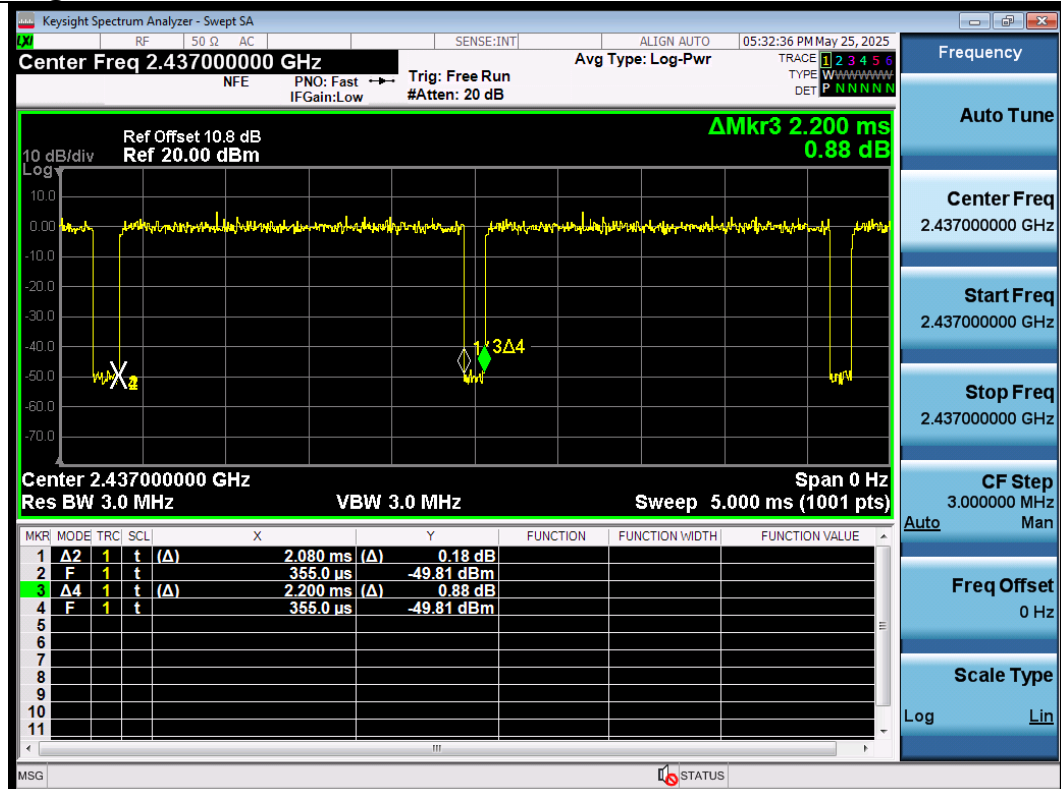
Duty cycle

11 b

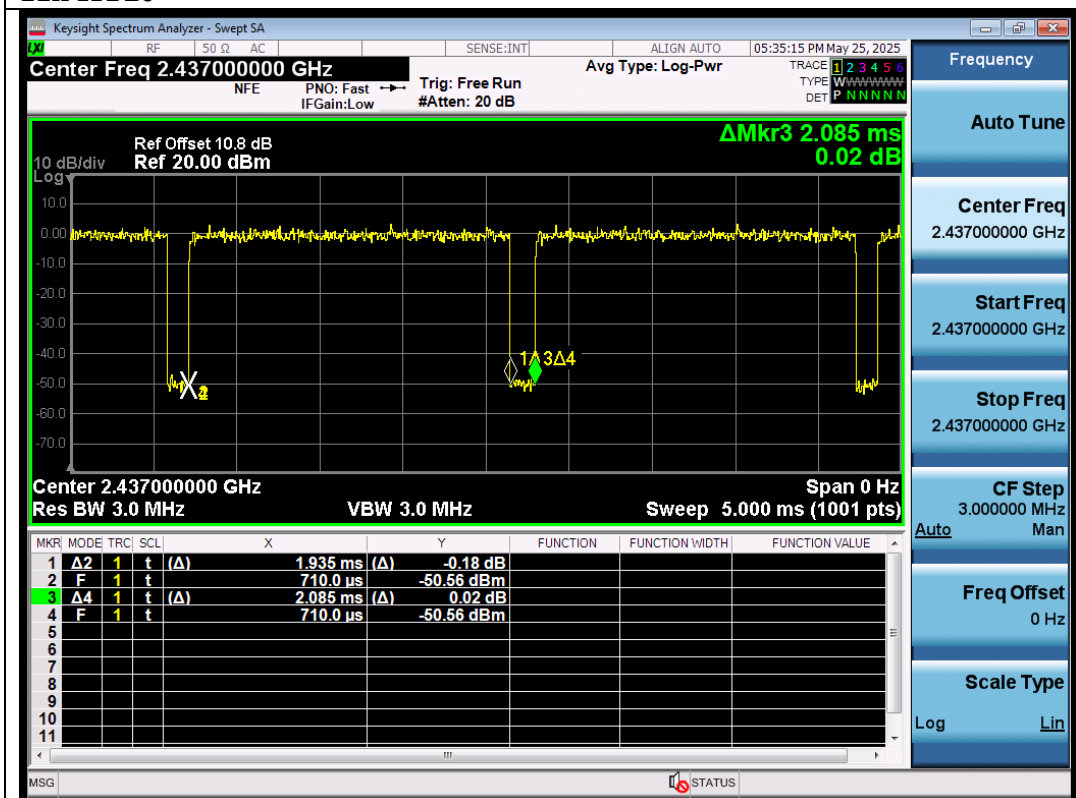


Note: The duty cycle is 99.52%.

11 g

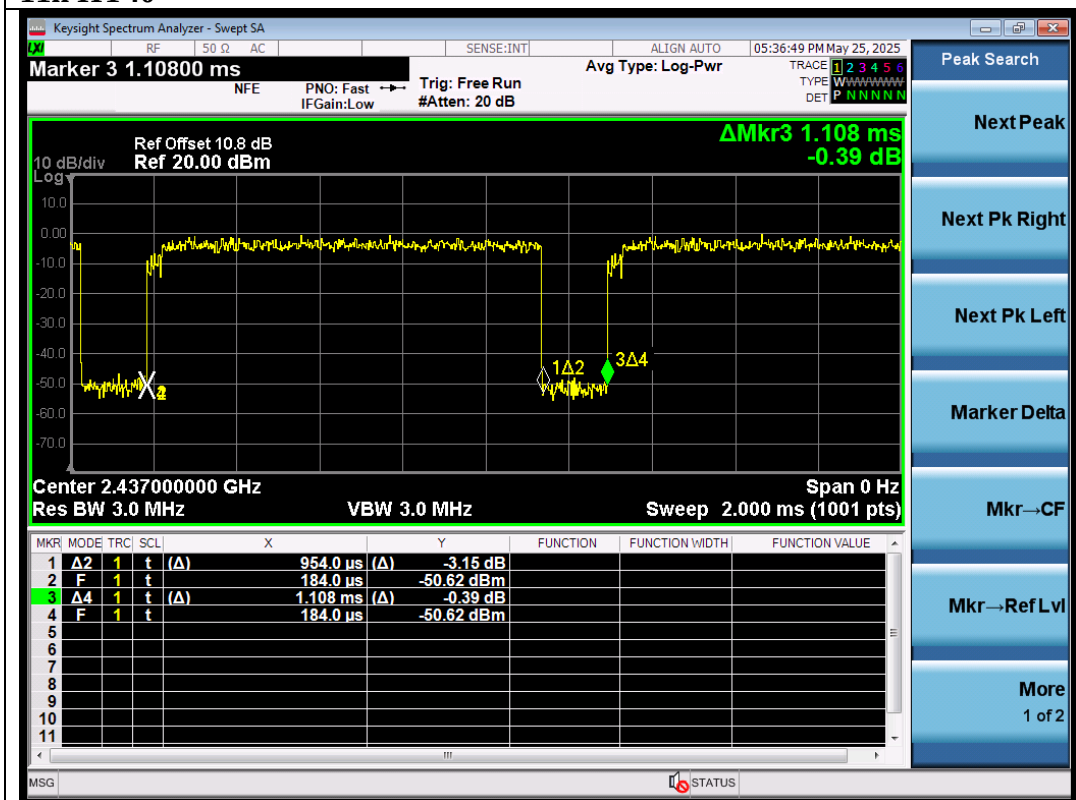


Note: The duty cycle is 94.55%.

11n HT20

Note: The duty cycle is 92.81%.

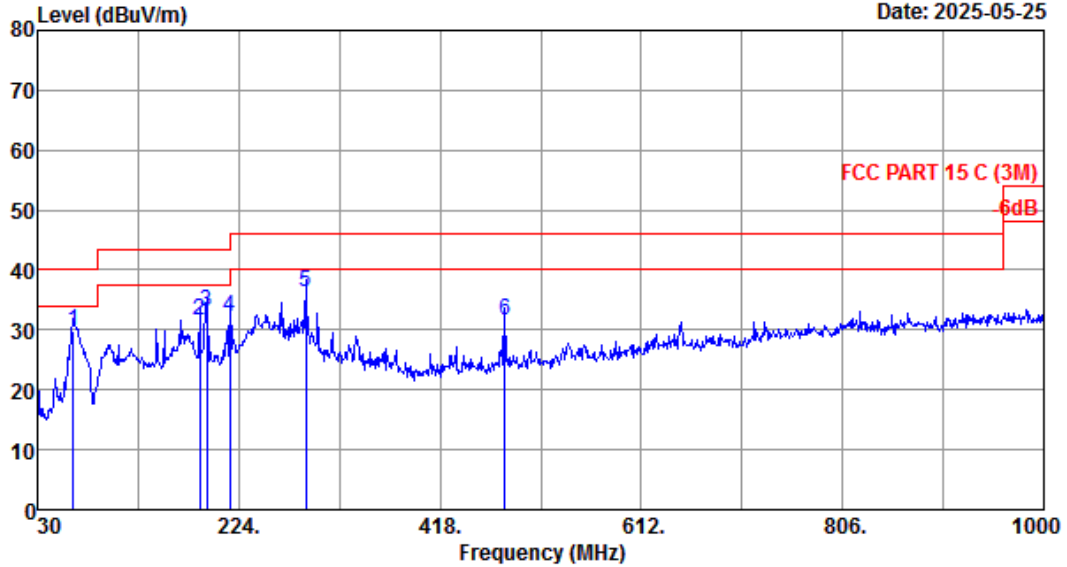
11n HT40



Note: The duty cycle is 86.10%.

Frequency: 30MHz~1GHz

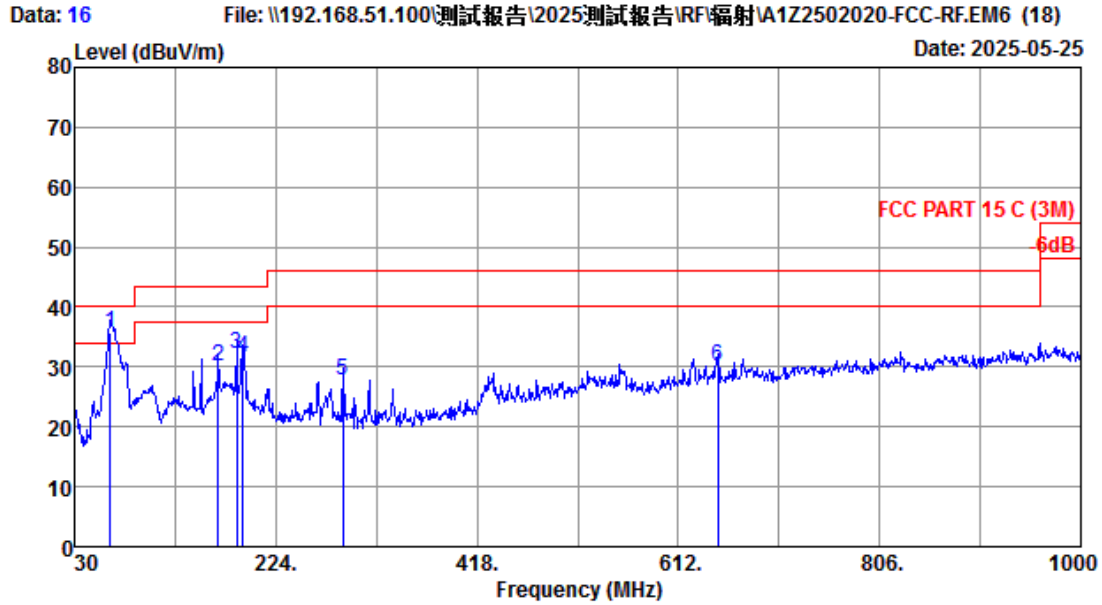
Data: 15 File: \\192.168.51.100\測試報告\2025\測試報告\RF\輻射\A1Z2502020-FCC-RF.EM6 (18) Date: 2025-05-25



Site no. : RF Chamber Data no. : 15
 Dis. / Ant. : 3m 2024 VULB 9168-01313 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M) Engineer : Abel
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 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	64.920	18.42	0.92	10.50	29.84	40.00	10.16	QP
2	186.170	16.88	1.54	13.23	31.65	43.50	11.85	QP
3	192.960	16.30	1.57	15.34	33.21	43.50	10.29	QP
4	215.270	15.61	1.68	14.92	32.21	43.50	11.29	QP
5	288.990	19.32	2.09	14.95	36.36	46.00	9.64	QP
6	480.080	23.70	3.17	4.72	31.59	46.00	14.41	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. : RF Chamber Data no. : 16
 Dis. / Ant. : 3m 2024 VULB 9168-01313 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M) Engineer : Abel
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G TX Mode

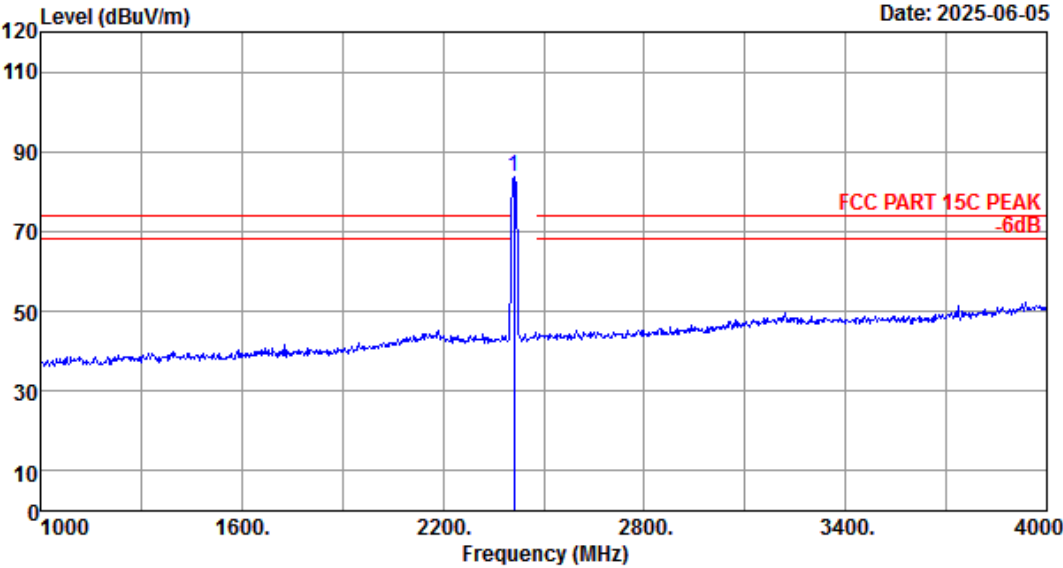
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	64.920	18.42	0.92	16.35	35.69	40.00	4.31	QP
2	168.710	18.73	1.45	10.06	30.24	43.50	13.26	QP
3	186.170	16.88	1.54	13.88	32.30	43.50	11.20	QP
4	191.990	16.40	1.57	13.57	31.54	43.50	11.96	QP
5	288.990	19.32	2.09	6.40	27.81	46.00	18.19	QP
6	649.830	26.10	3.88	0.08	30.06	46.00	15.94	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

Data: 33 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

Date: 2025-06-05



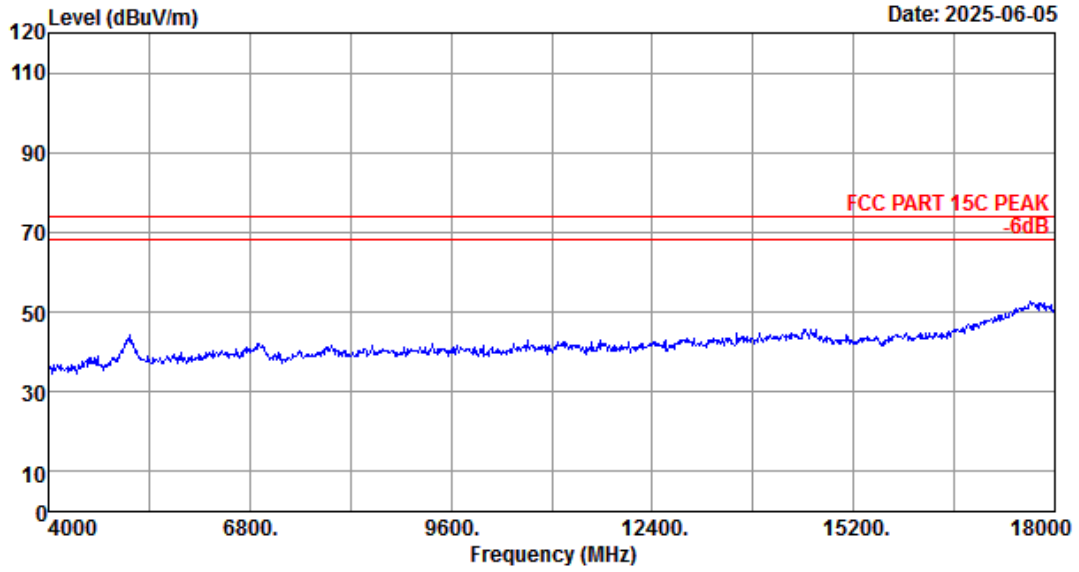
Site no.	: RF Chamber	Data no.	: 33
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11b 2412MHz TX Mode		

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2412.000	27.60	4.60	49.63	101.10	83.67	-----	-----	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.

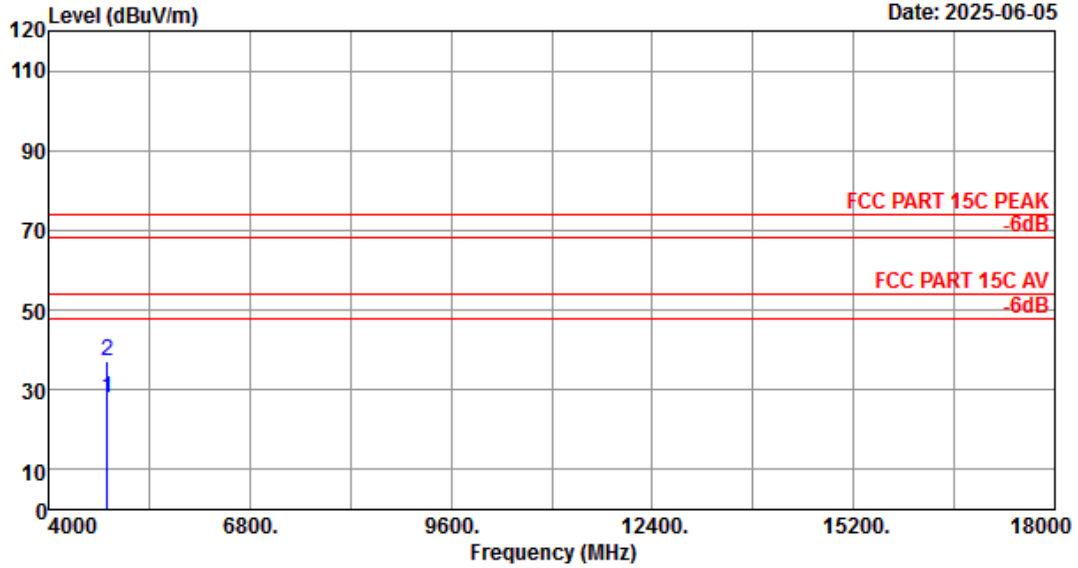
FCC ID: 2BCTP-CSPLUS

Data: 34 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 34
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11b 2412MHz TX Mode		

Data: 35 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05

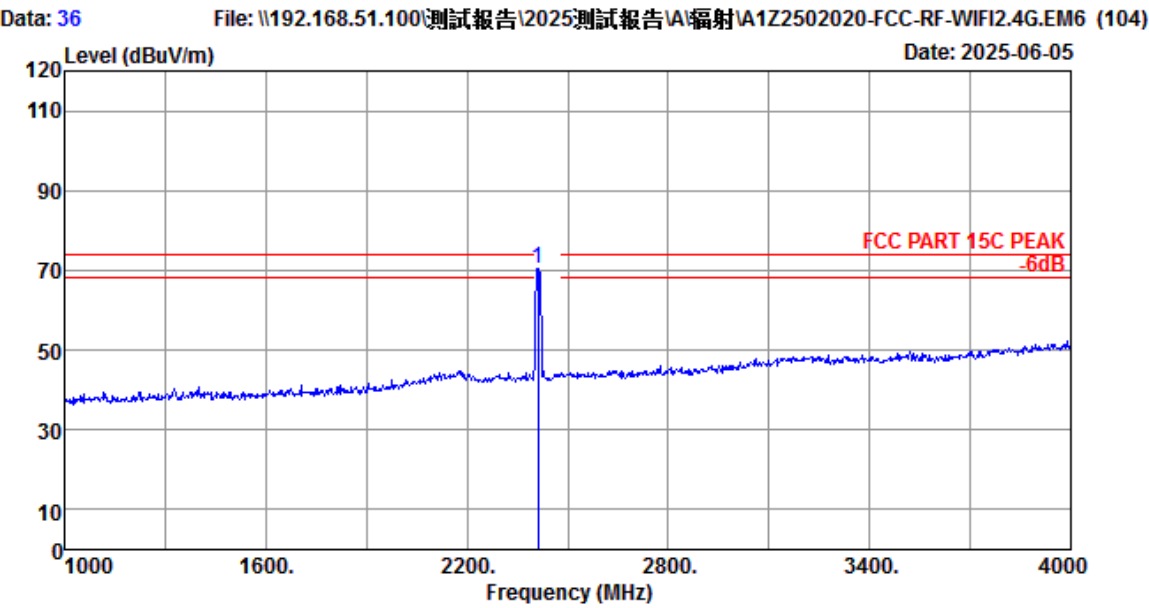


Site no. : RF Chamber Data no. : 35
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2412MHz TX Mode

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	4824.000	32.00	6.60	48.18	37.55	27.97	54.00	26.03	Average
2	4824.000	32.00	6.60	48.18	46.82	37.24	74.00	36.76	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.

FCC ID: 2BCTP-CSPLUS



Site no.	: RF Chamber	Data no.	: 36
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11b 2412MHz TX Mode		

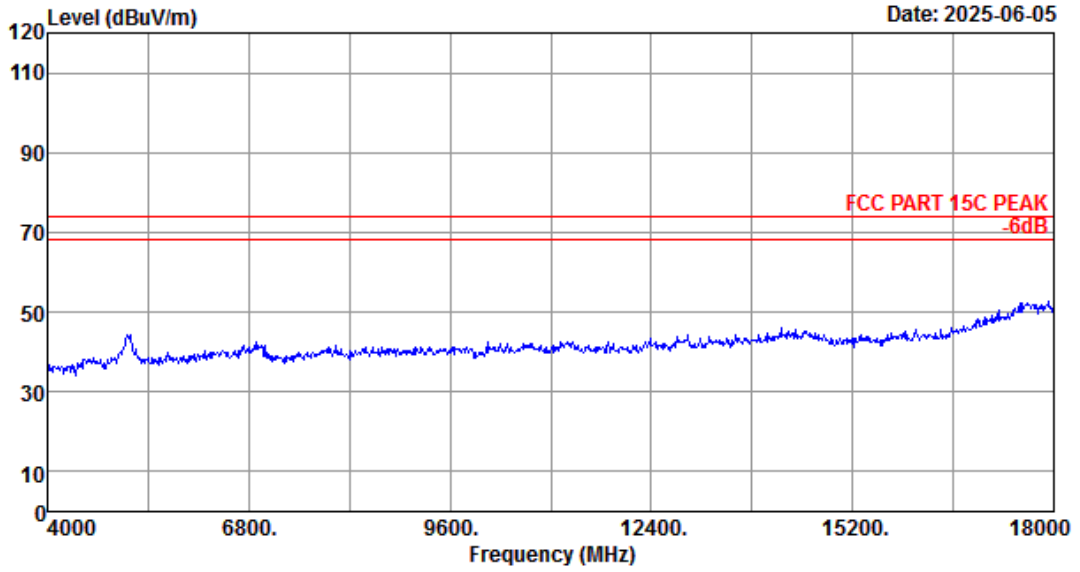
No.	Freq. (MHz)	Ant.	Cable	AMP	Reading (dBuV)	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	27.60	4.60	49.63	87.91	70.48	-----	-----	Peak

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.

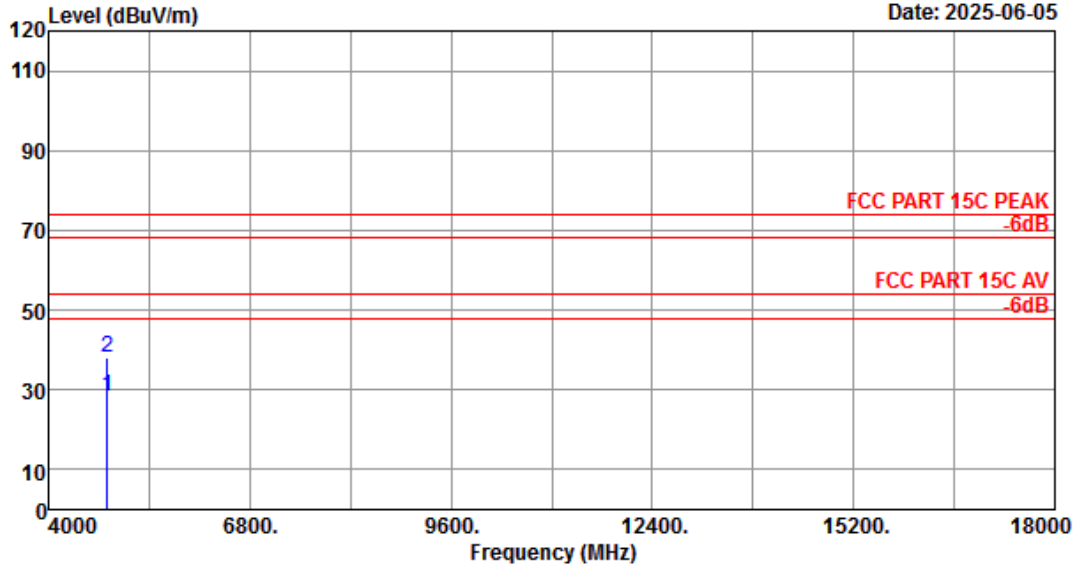
FCC ID: 2BCTP-CSPLUS

Data: 37 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 37
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11b 2412MHz TX Mode		

Data: 38 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05

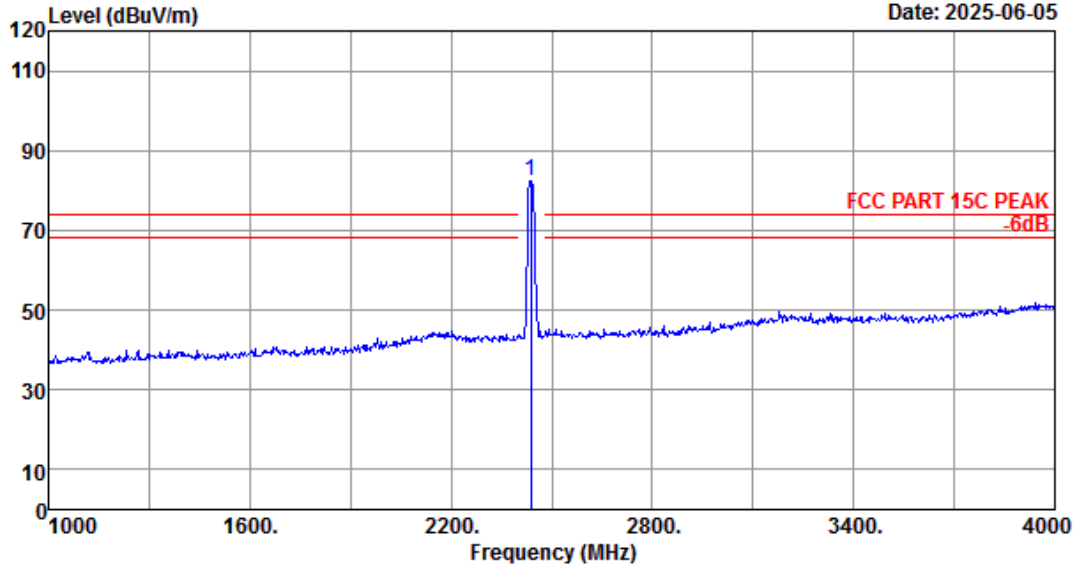


Site no. : RF Chamber Data no. : 38
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2412MHz TX Mode

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	4824.000	32.00	6.60	48.18	38.14	28.56	54.00	25.44	Average
2	4824.000	32.00	6.60	48.18	47.73	38.15	74.00	35.85	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.

Data: 39 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05

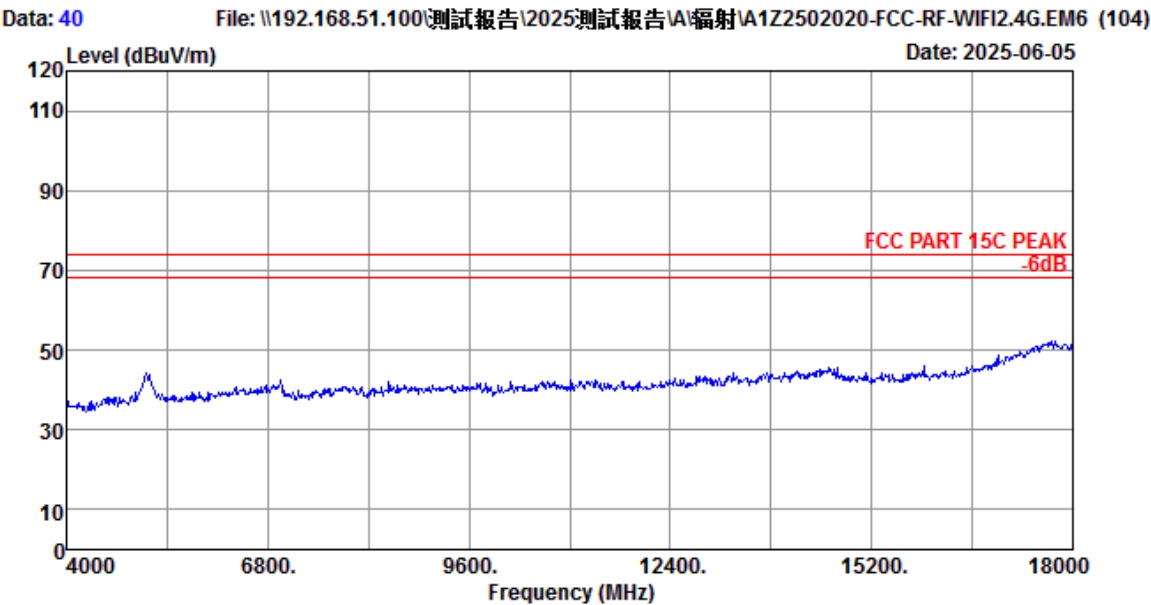


Site no. : RF Chamber Data no. : 39
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2437MHz TX Mode

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	2437.000	27.60	4.64	49.61	99.91	82.54	-----	-----	Peak

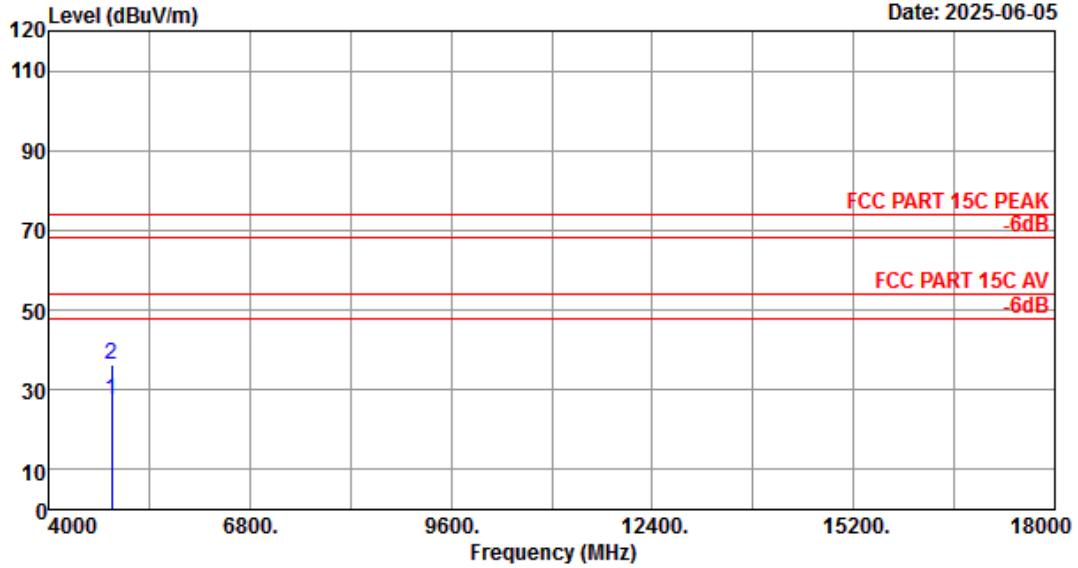
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

FCC ID: 2BCTP-CSPLUS



Site no.	: RF Chamber	Data no.	: 40
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11b 2437MHz TX Mode		

Data: 41 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05

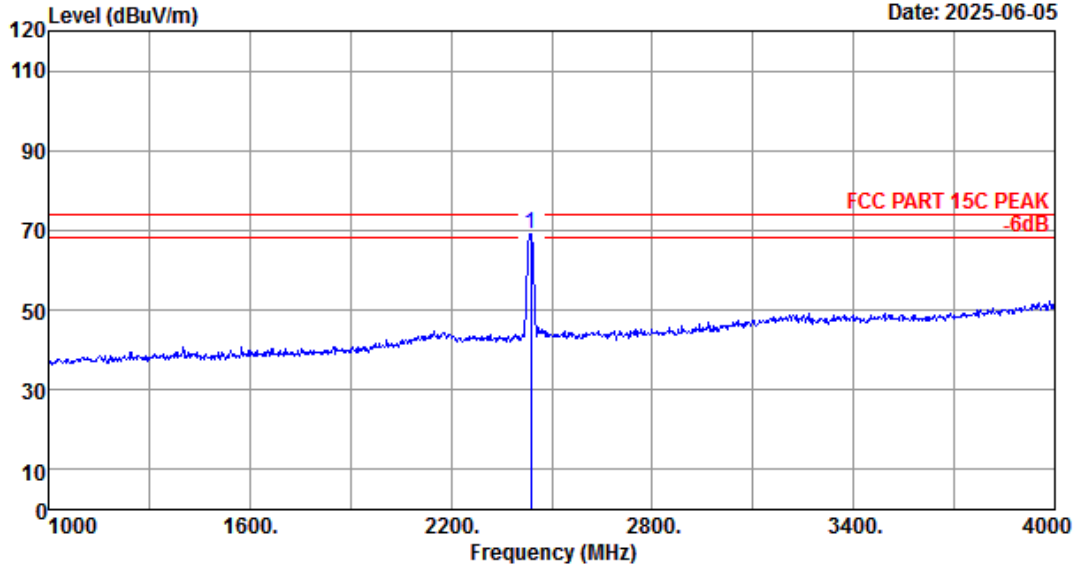


Site no. : RF Chamber Data no. : 41
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2437MHz TX Mode

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	4874.000	32.44	6.63	48.19	36.39	27.27	54.00	26.73	Average
2	4874.000	32.44	6.63	48.19	45.24	36.12	74.00	37.88	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.

Data: 42 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05



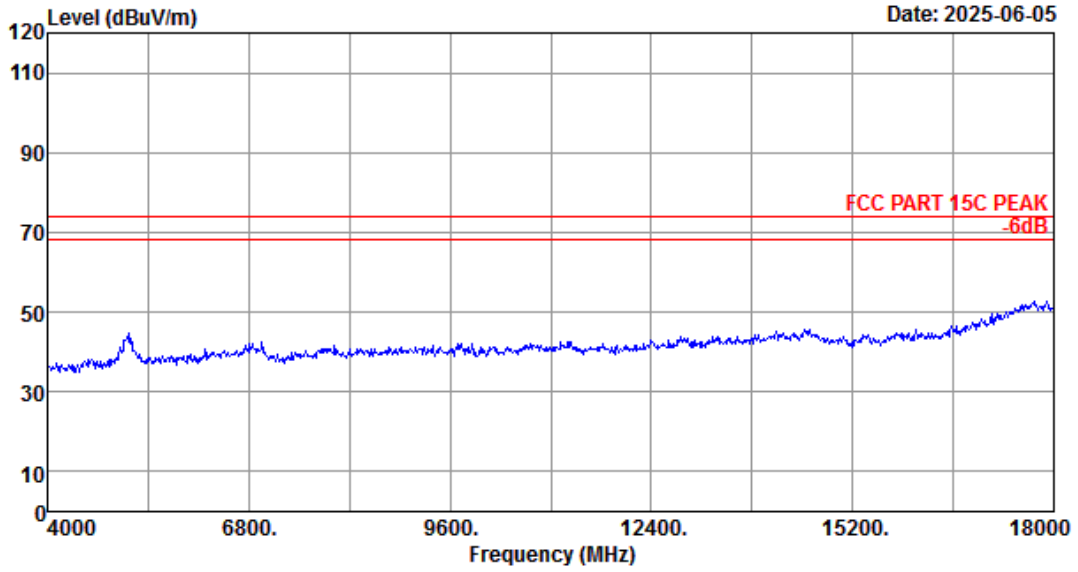
Site no. : RF Chamber Data no. : 42
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2437MHz TX Mode

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	2437.000	27.60	4.64	49.61	86.63	69.26	-----	-----	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.

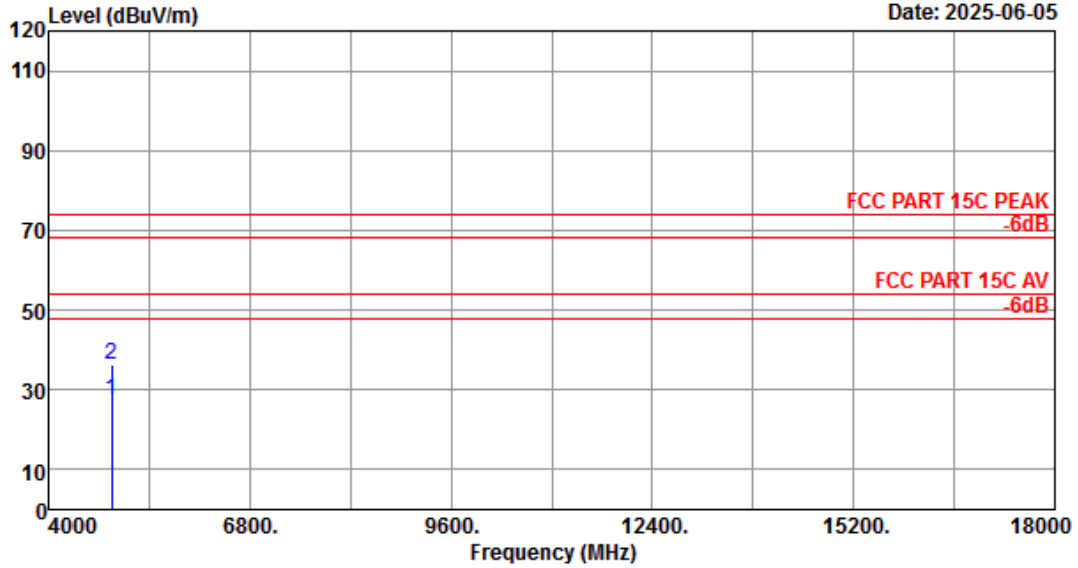
FCC ID: 2BCTP-CSPLUS

Data: 43 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 43
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11b 2437MHz TX Mode		

Data: 44 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05

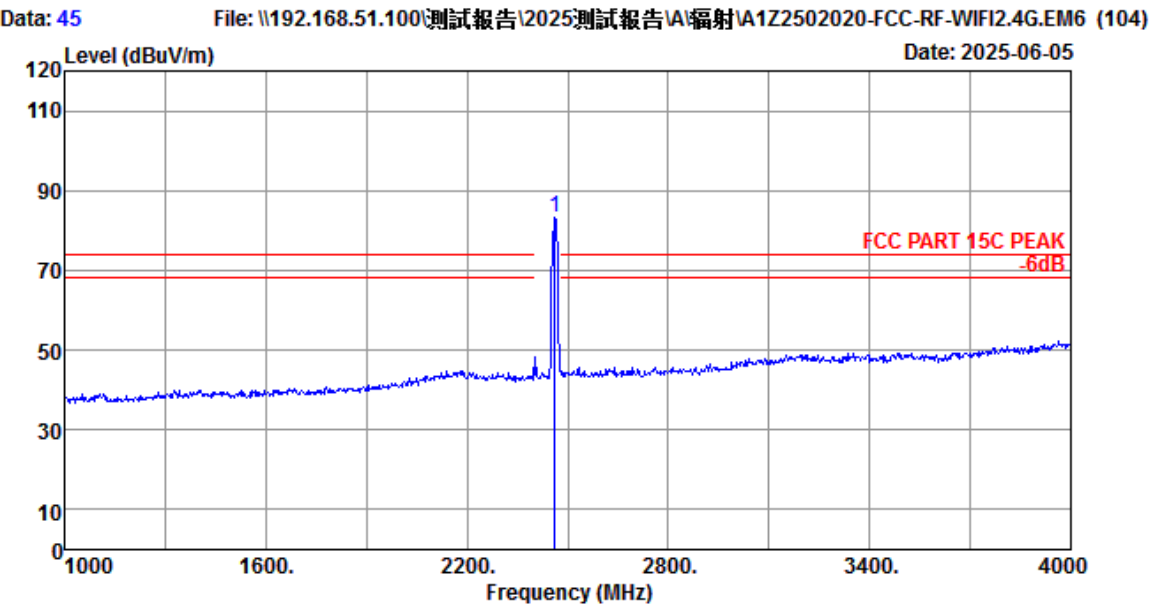


Site no. : RF Chamber Data no. : 44
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2437MHz TX Mode

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	4874.000	32.44	6.63	48.19	36.52	27.40	54.00	26.60	Average
2	4874.000	32.44	6.63	48.19	45.21	36.09	74.00	37.91	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.

FCC ID: 2BCTP-CSPLUS



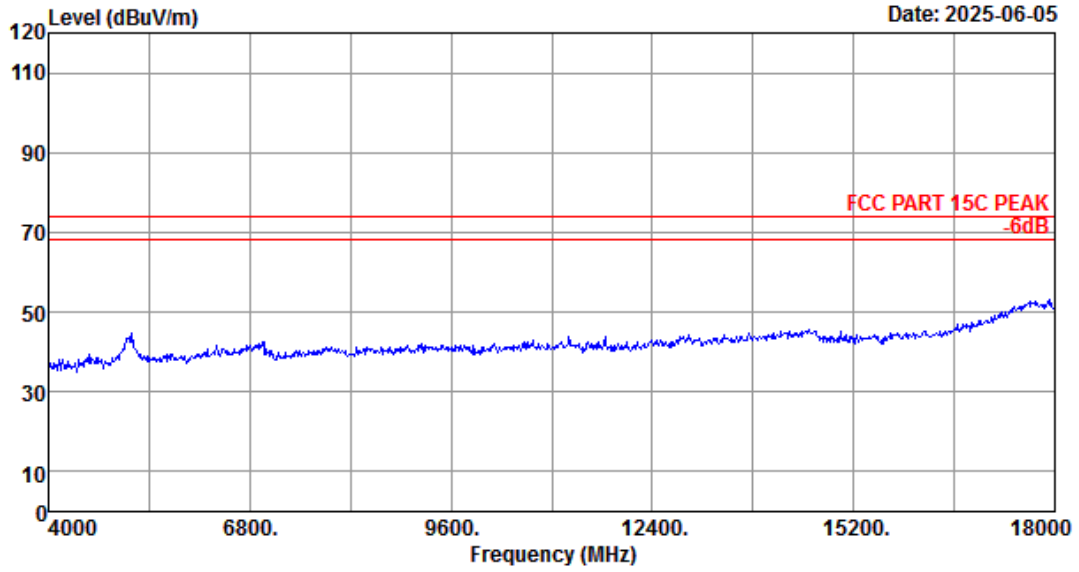
Site no. : RF Chamber Data no. : 45
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2462MHz TX Mode

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	2462.000	27.70	4.66	49.58	100.33	83.11	-----	-----	Peak

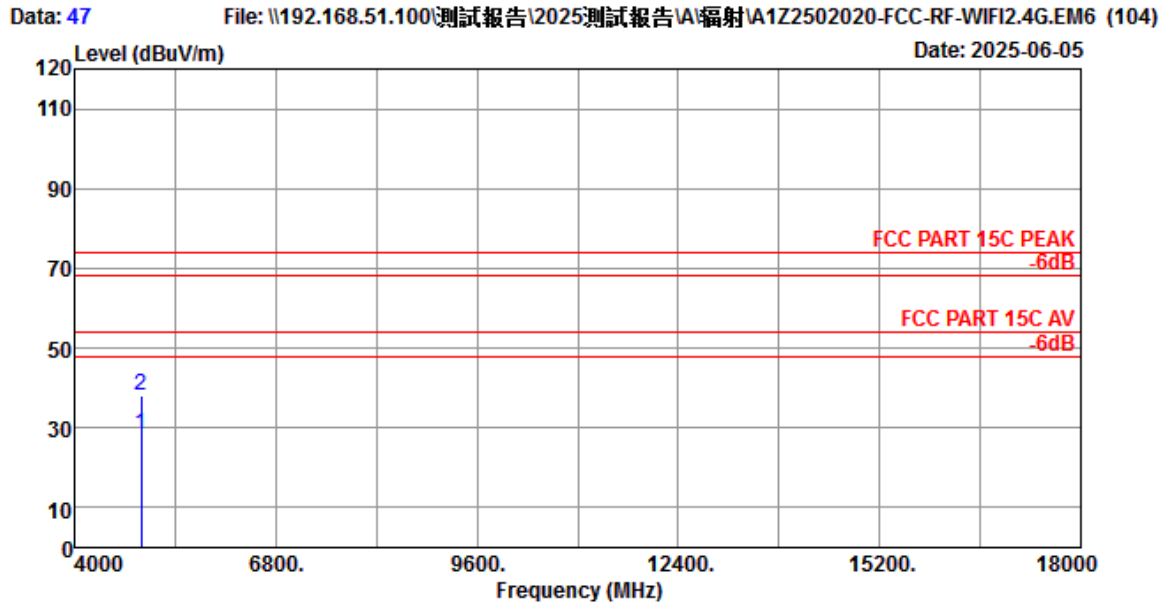
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

FCC ID: 2BCTP-CSPLUS

Data: 46 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 46
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11b 2462MHz TX Mode		

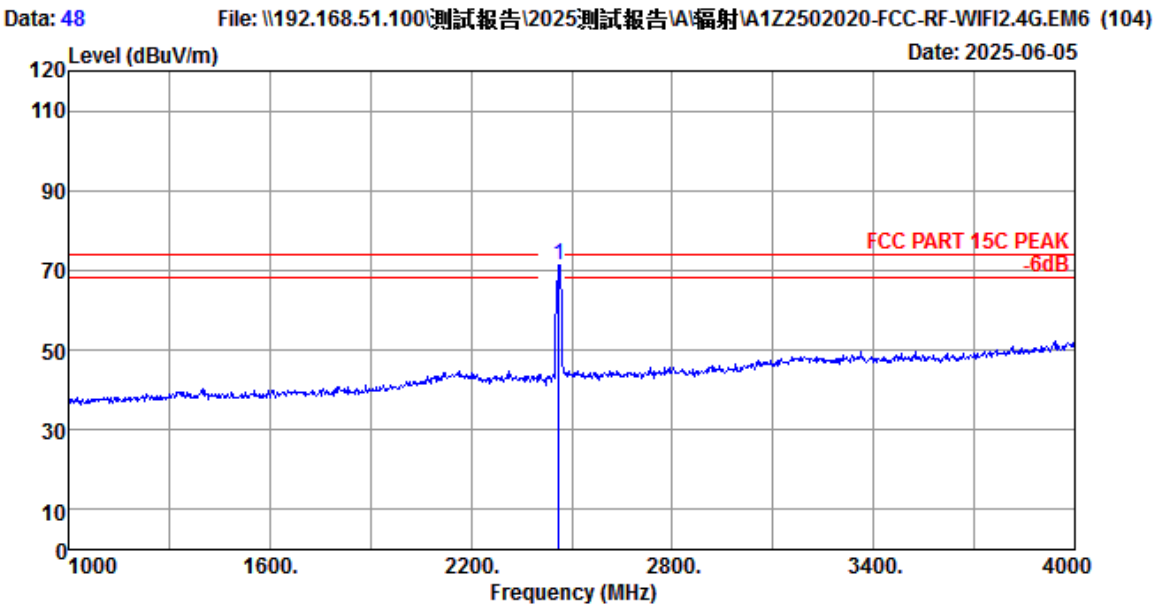


Site no. : RF Chamber Data no. : 47
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2462MHz TX Mode

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	4924.000	33.09	6.66	48.19	36.58	28.14	54.00	25.86	Average
2	4924.000	33.09	6.66	48.19	46.55	38.11	74.00	35.89	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.

FCC ID: 2BCTP-CSPLUS



Site no.	: RF Chamber	Data no.	: 48
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11b 2462MHz TX Mode		

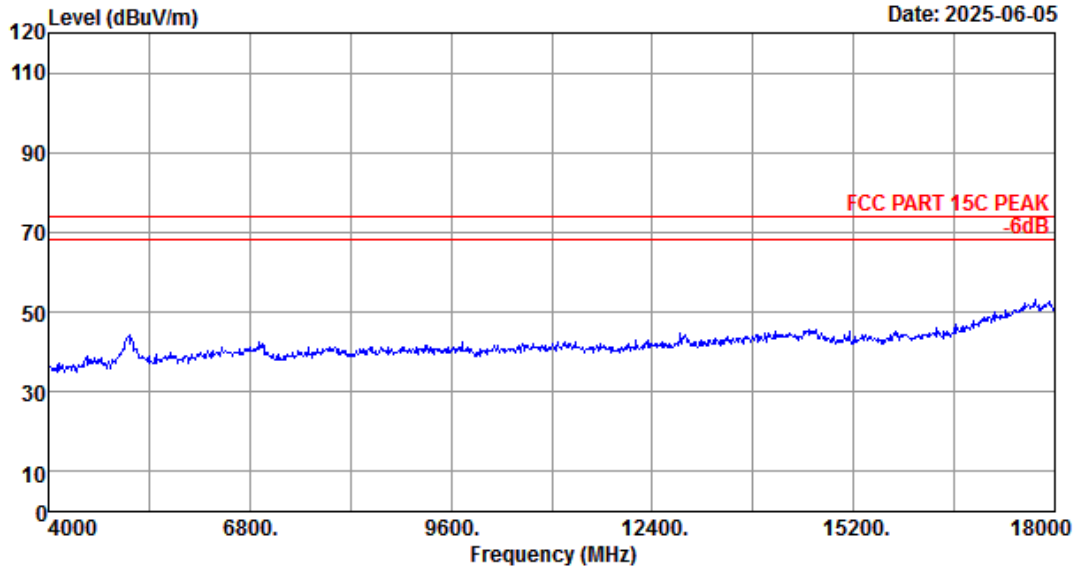
No.	Freq. (MHz)	Ant.	Cable	AMP	Reading (dBuV)	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	27.70	4.66	49.58	88.43	71.21	-----	-----	Peak

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.

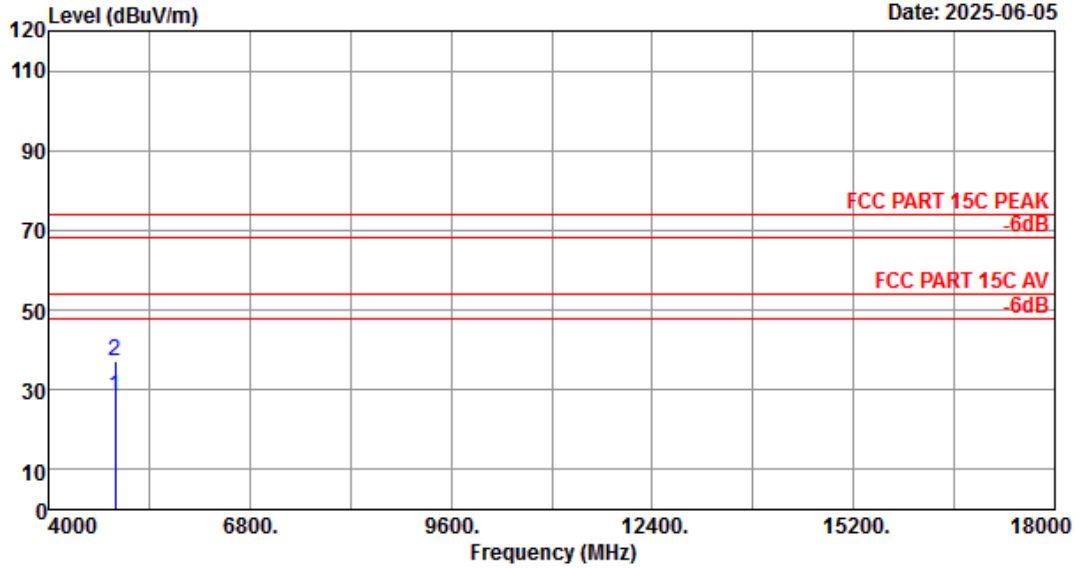
FCC ID: 2BCTP-CSPLUS

Data: 49 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 49
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11b 2462MHz TX Mode		

Data: 50 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05

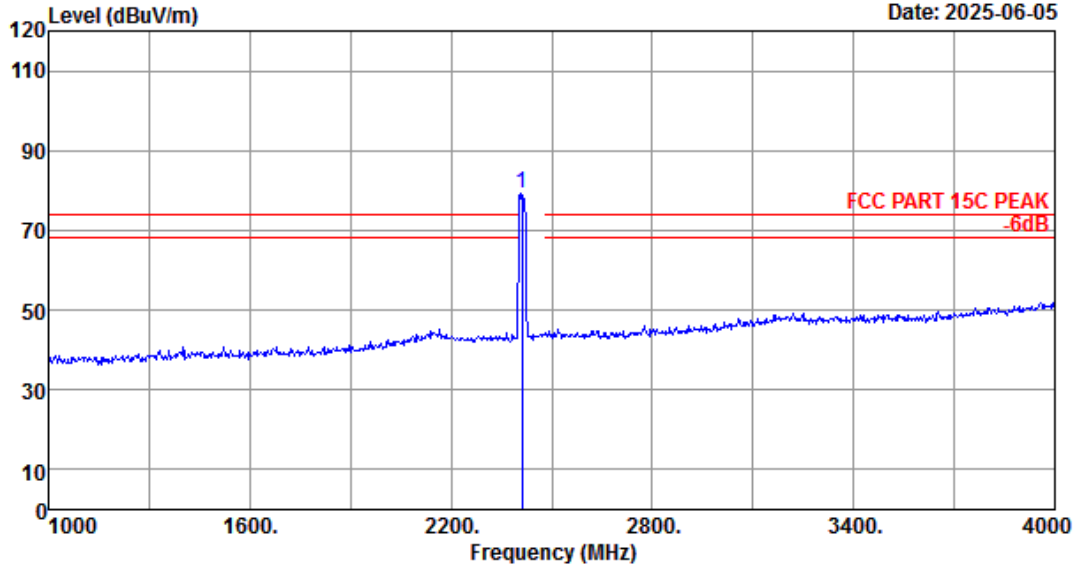


Site no. : RF Chamber Data no. : 50
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2462MHz TX Mode

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	4924.000	33.09	6.66	48.19	36.58	28.14	54.00	25.86	Average
2	4924.000	33.09	6.66	48.19	45.64	37.20	74.00	36.80	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.

Data: 51 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05



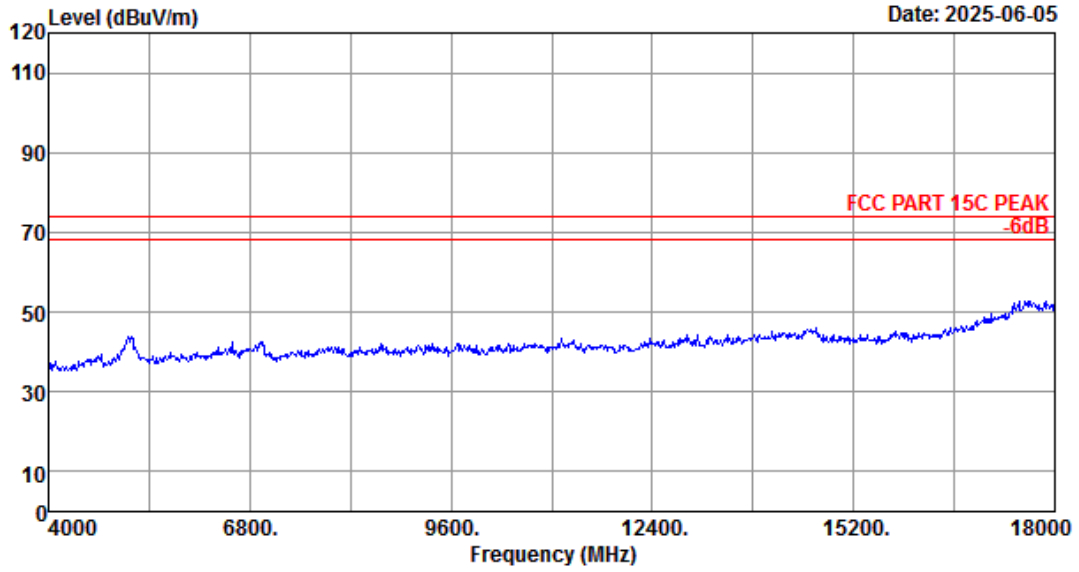
Site no. : RF Chamber Data no. : 51
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2412MHz TX Mode

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	2412.000	27.60	4.60	49.63	96.62	79.19	-----	-----	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.

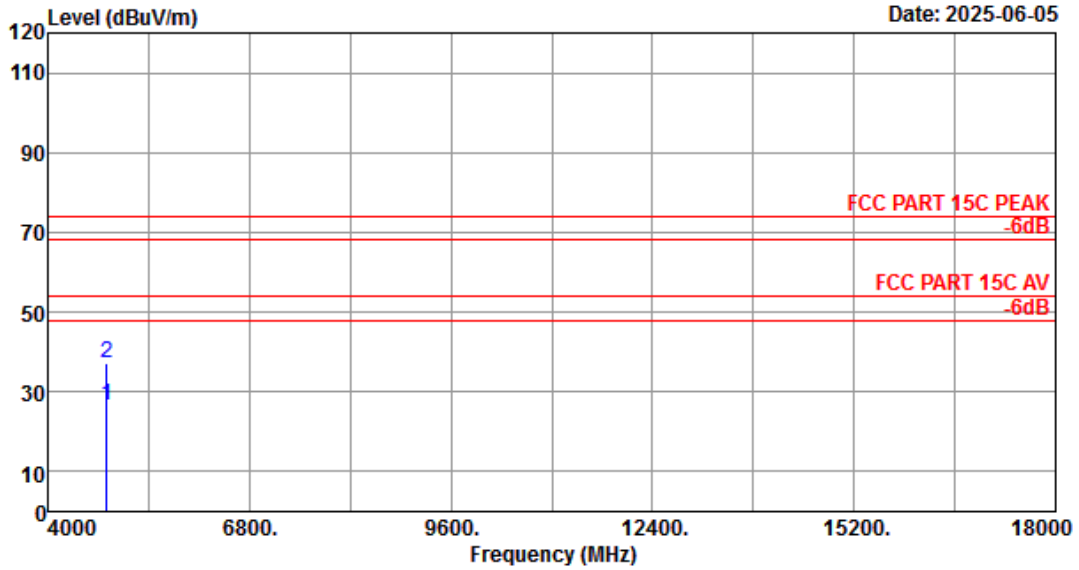
FCC ID: 2BCTP-CSPLUS

Data: 52 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 52
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11g 2412MHz TX Mode		

Data: 53 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

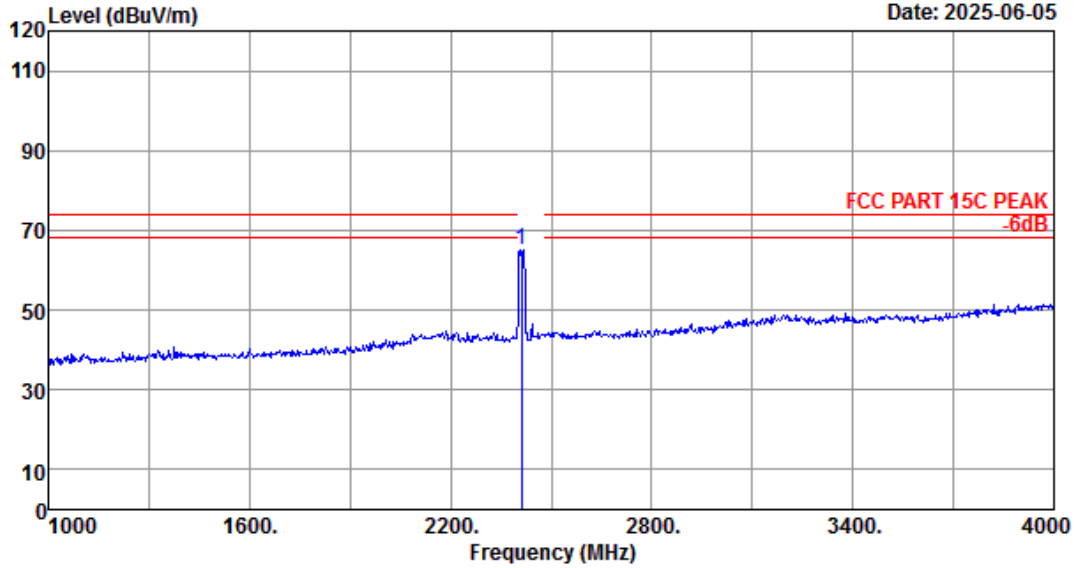


Site no. : RF Chamber Data no. : 53
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2412MHz TX Mode

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	4824.000	32.00	6.60	48.18	36.12	26.54	54.00	27.46	Average
2	4824.000	32.00	6.60	48.18	46.78	37.20	74.00	36.80	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.

Data: 54 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05



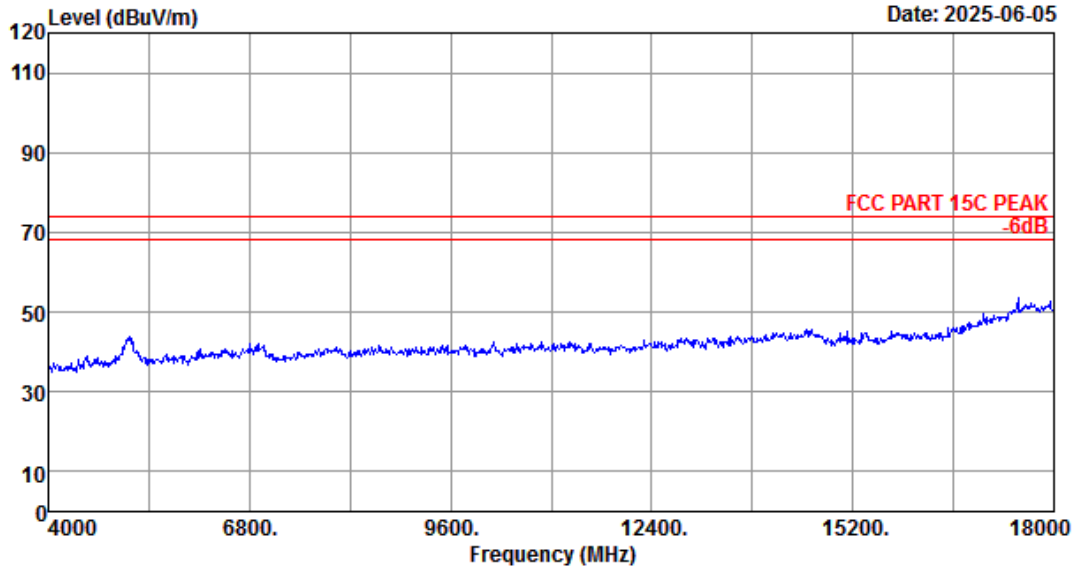
Site no. : RF Chamber Data no. : 54
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2412MHz TX Mode

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	2412.000	27.60	4.60	49.63	82.64	65.21	-----	-----	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.

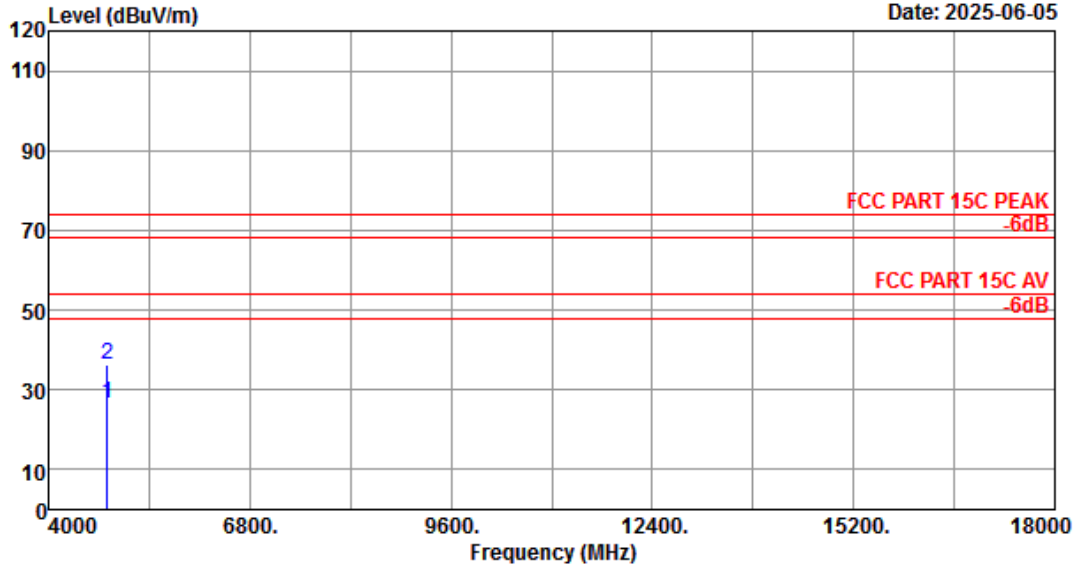
FCC ID: 2BCTP-CSPLUS

Data: 55 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 55
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11g 2412MHz TX Mode		

Data: 56 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05

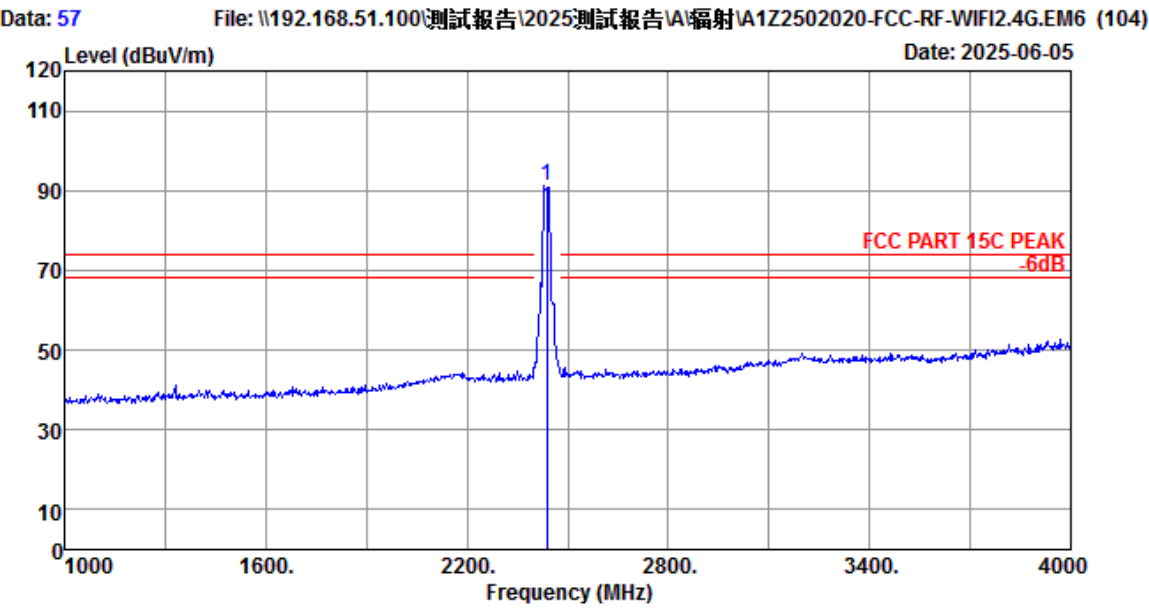


Site no. : RF Chamber Data no. : 56
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2412MHz TX Mode

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	4824.000	32.00	6.60	48.18	36.24	26.66	54.00	27.34	Average
2	4824.000	32.00	6.60	48.18	45.70	36.12	74.00	37.88	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.

FCC ID: 2BCTP-CSPLUS



Site no.	: RF Chamber	Data no.	: 57
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11g 2437MHz TX Mode		

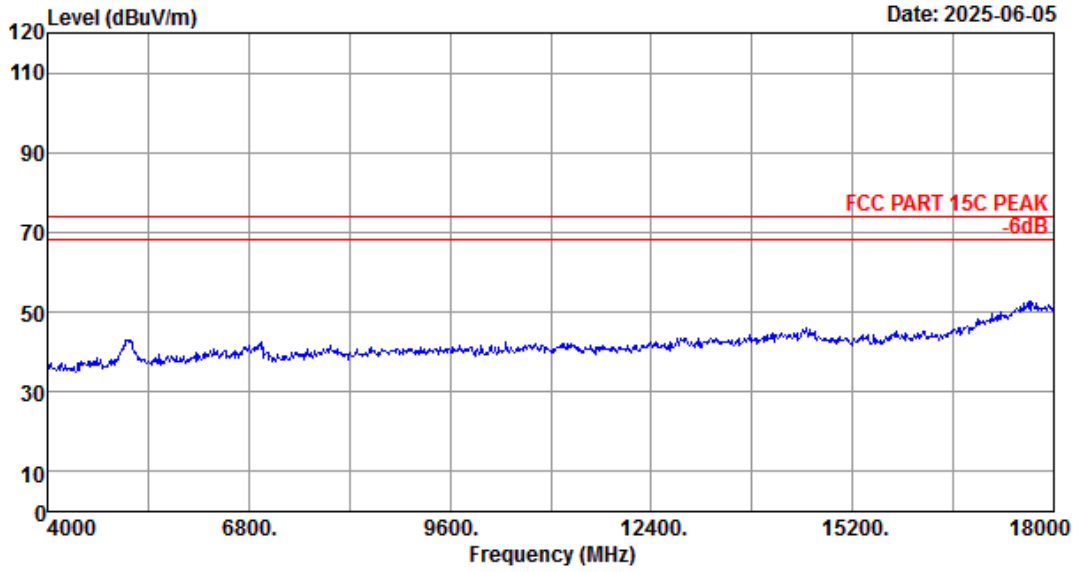
No.	Freq. (MHz)	Ant.	Cable	AMP	Reading (dBuV)	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	27.60	4.64	49.61	108.50	91.13	-----	-----	Peak

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.

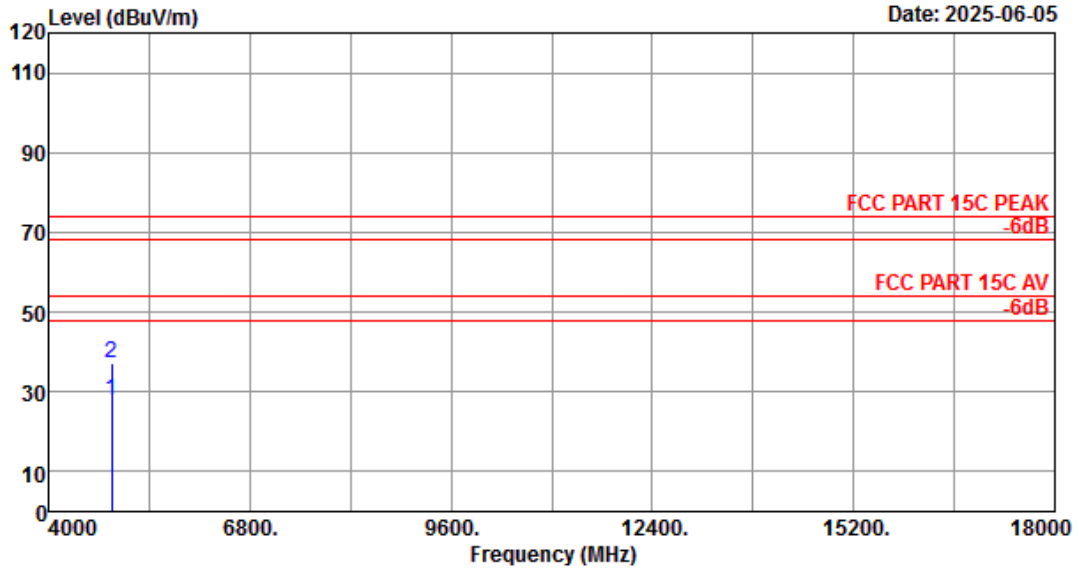
FCC ID: 2BCTP-CSPLUS

Data: 58 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 58
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11g 2437MHz TX Mode		

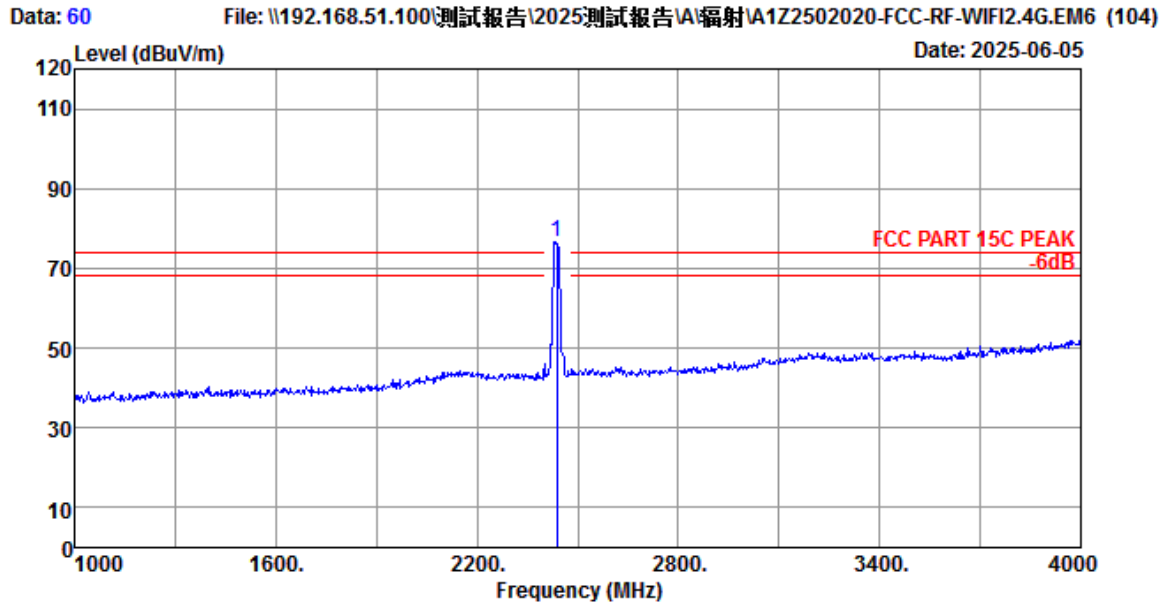
Data: 59 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no. : RF Chamber Data no. : 59
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2437MHz TX Mode

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	4874.000	32.44	6.63	48.19	36.89	27.77	54.00	26.23	Average
2	4874.000	32.44	6.63	48.19	46.44	37.32	74.00	36.68	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.



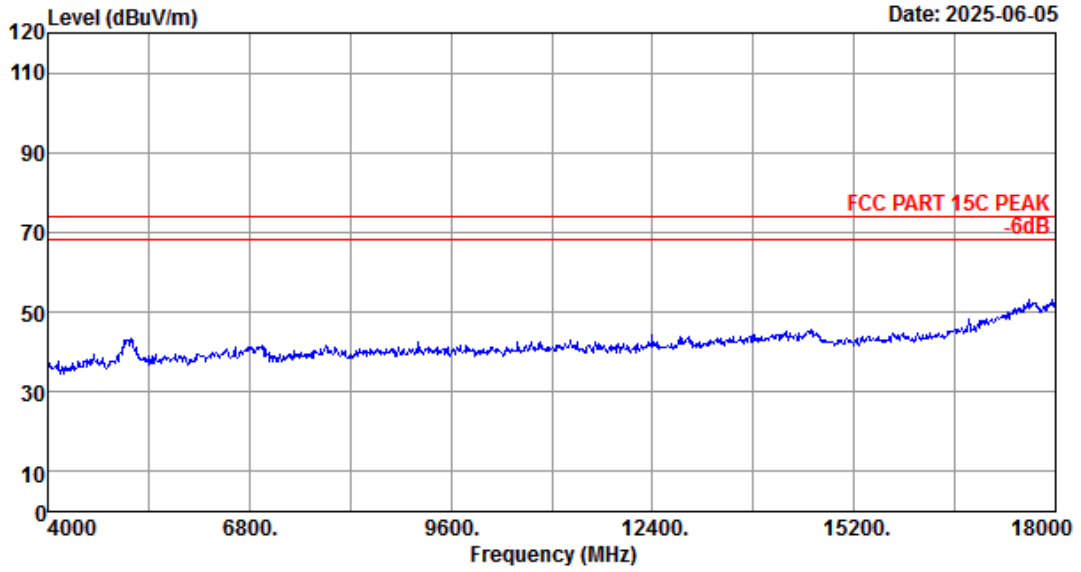
Site no.	: RF Chamber	Data no.	: 60
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11g 2437MHz TX Mode		

No.	Freq. (MHz)	Ant.	Cable	AMP	Reading (dBuV)	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	27.60	4.64	49.61	94.12	76.75	-----	-----	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.

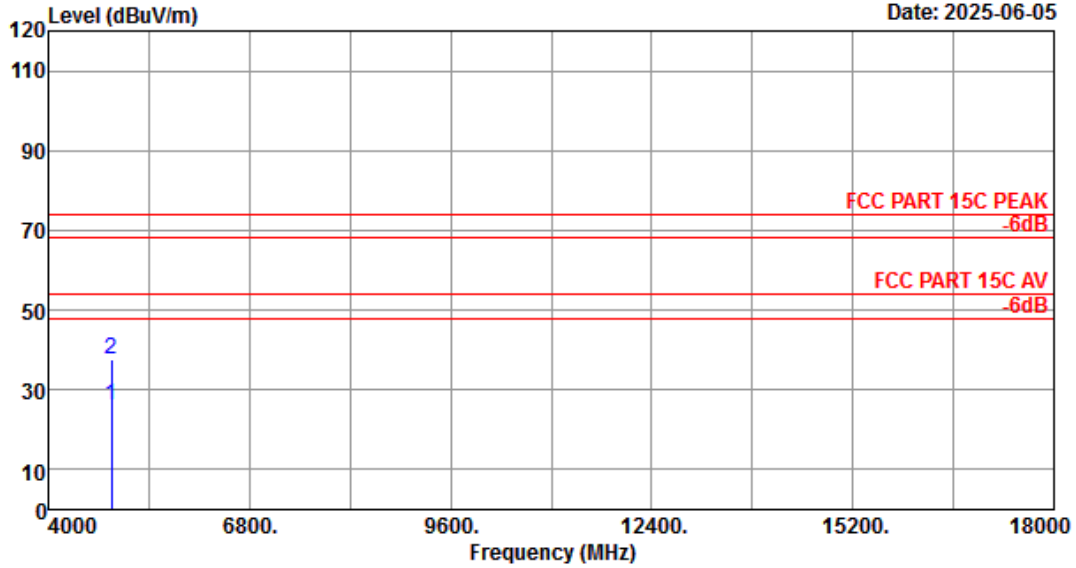
FCC ID: 2BCTP-CSPLUS

Data: 61 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 61
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11g 2437MHz TX Mode		

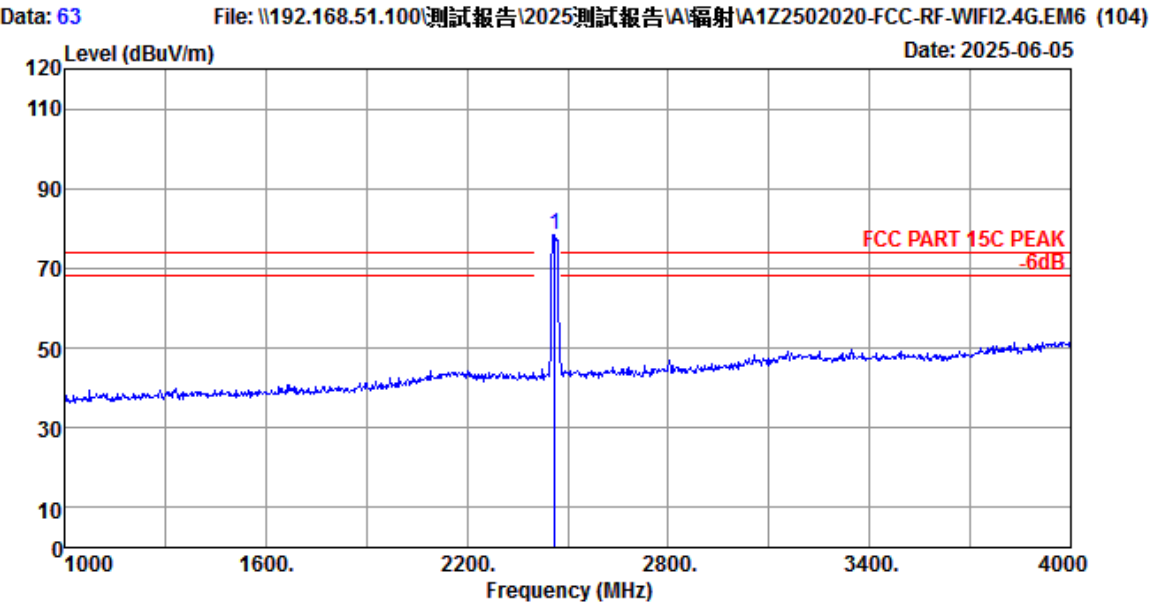
Data: 62 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05



Site no. : RF Chamber Data no. : 62
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2437MHz TX Mode

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	4874.000	32.44	6.63	48.19	35.28	26.16	54.00	27.84	Average
2	4874.000	32.44	6.63	48.19	46.71	37.59	74.00	36.41	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.	: RF Chamber	Data no.	: 63
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11g 2462MHz TX Mode		

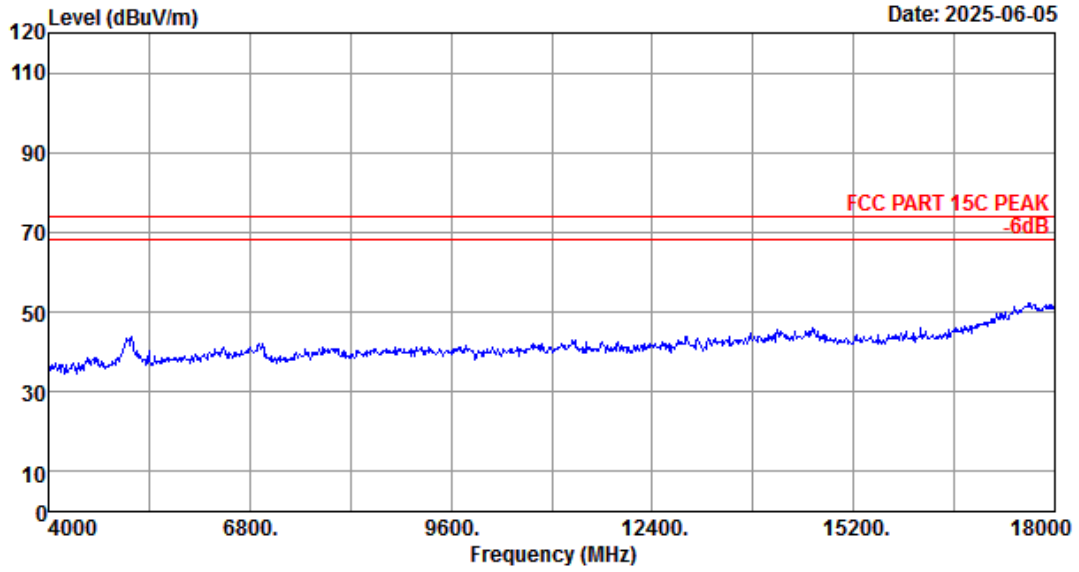
No.	Freq. (MHz)	Ant.	Cable	AMP	Reading (dBuV)	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	27.70	4.66	49.58	95.74	78.52	-----	-----	Peak

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.

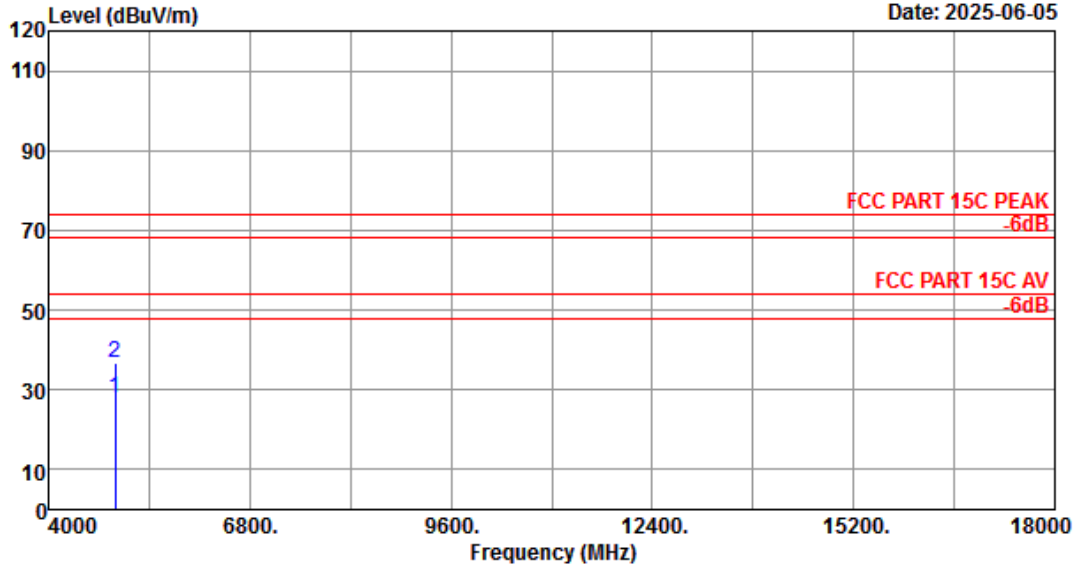
FCC ID: 2BCTP-CSPLUS

Data: 64 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 64
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11g 2462MHz TX Mode		

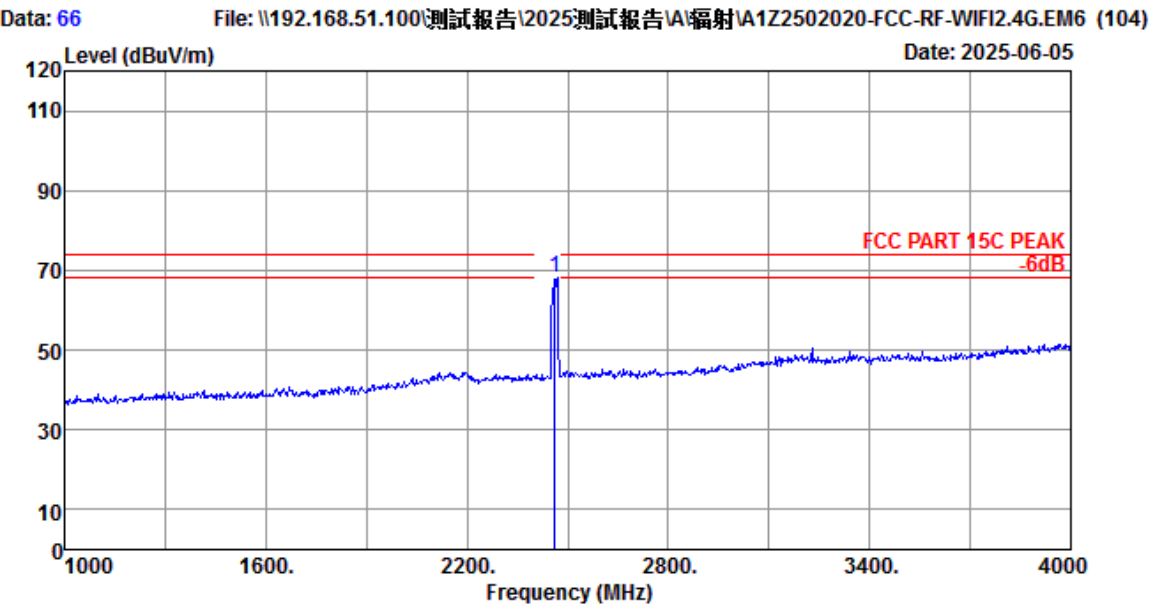
Data: 65 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05



Site no. : RF Chamber Data no. : 65
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2462MHz TX Mode

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	4924.000	33.09	6.66	48.19	36.46	28.02	54.00	25.98	Average
2	4924.000	33.09	6.66	48.19	45.28	36.84	74.00	37.16	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.	: RF Chamber	Data no.	: 66
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11g 2462MHz TX Mode		

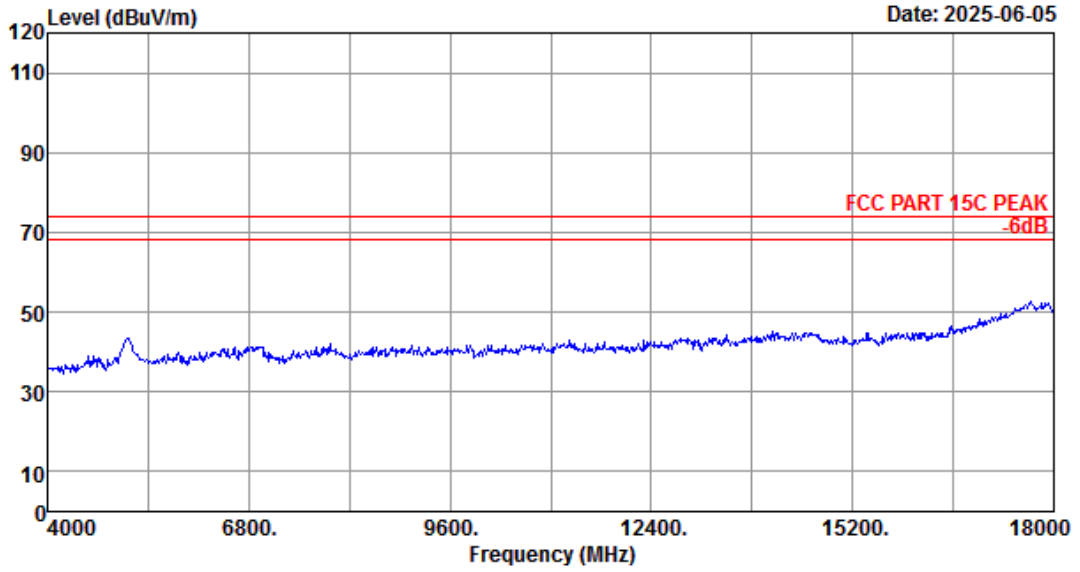
No.	Freq. (MHz)	Ant.	Cable	AMP	Reading (dBuV)	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	27.70	4.66	49.58	85.35	68.13	-----	-----	Peak

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.

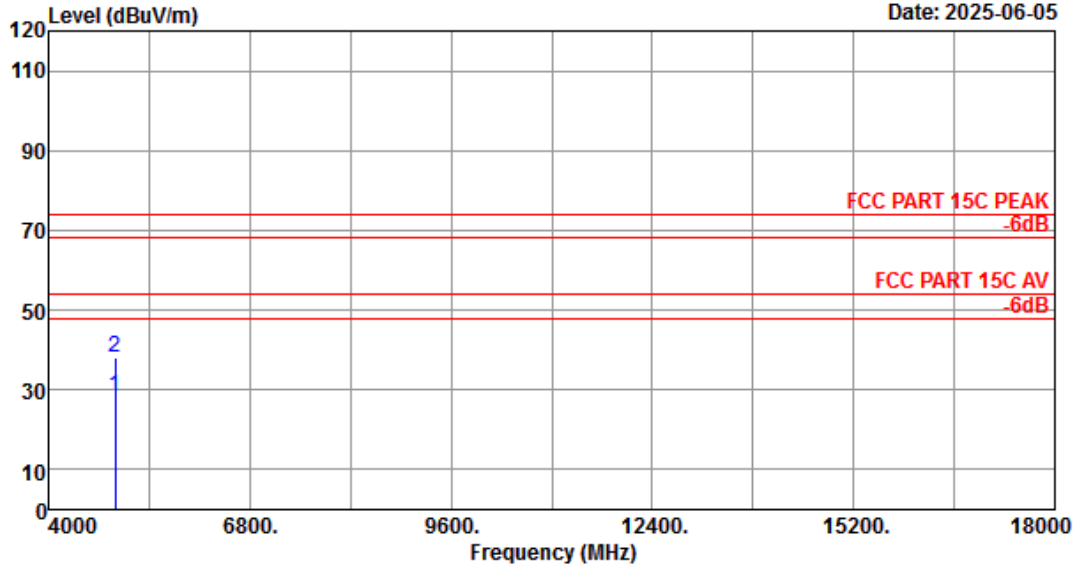
FCC ID: 2BCTP-CSPLUS

Data: 67 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 67
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11g 2462MHz TX Mode		

Data: 68 File: \\192.168.51.100\測試報告\2025\測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05

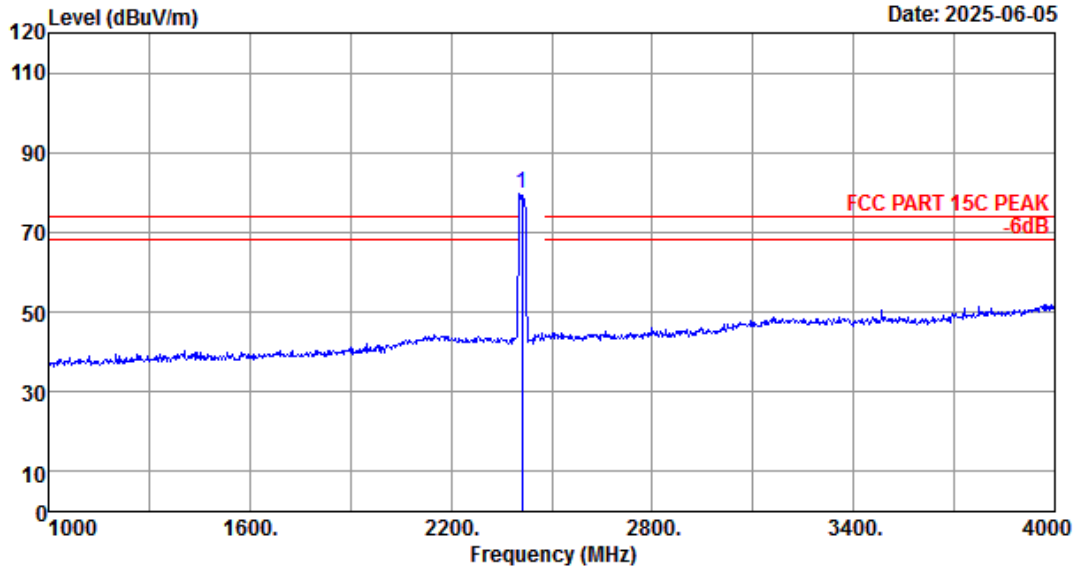


Site no. : RF Chamber Data no. : 68
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2462MHz TX Mode

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	4924.000	33.09	6.66	48.19	36.86	28.42	54.00	25.58	Average
2	4924.000	33.09	6.66	48.19	46.48	38.04	74.00	35.96	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.

Data: 69 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



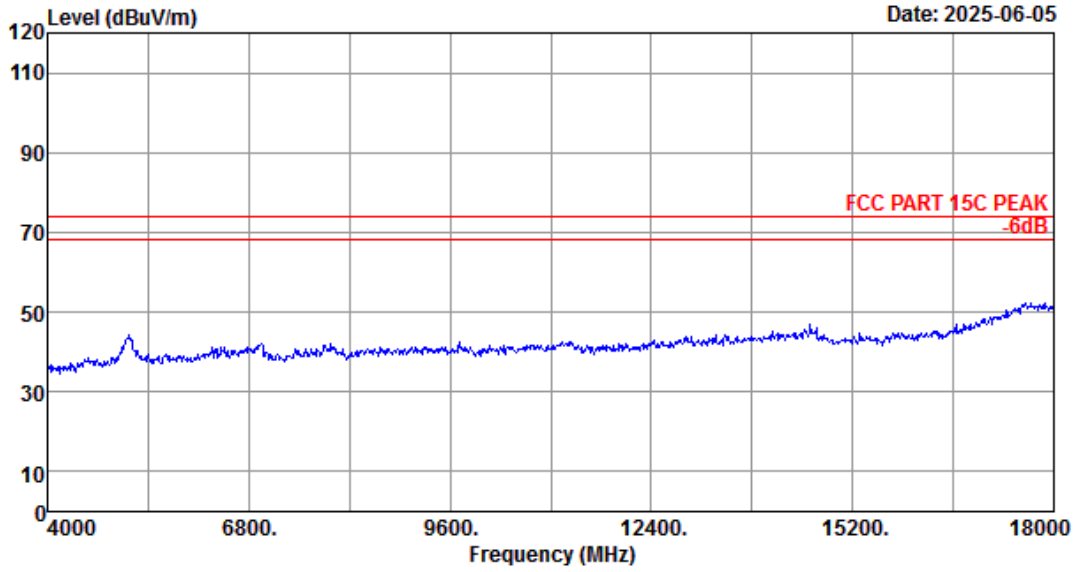
Site no. : RF Chamber Data no. : 69
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2412MHz TX Mode

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.000	27.60	4.60	49.63	96.93	79.50	-----	-----	Peak

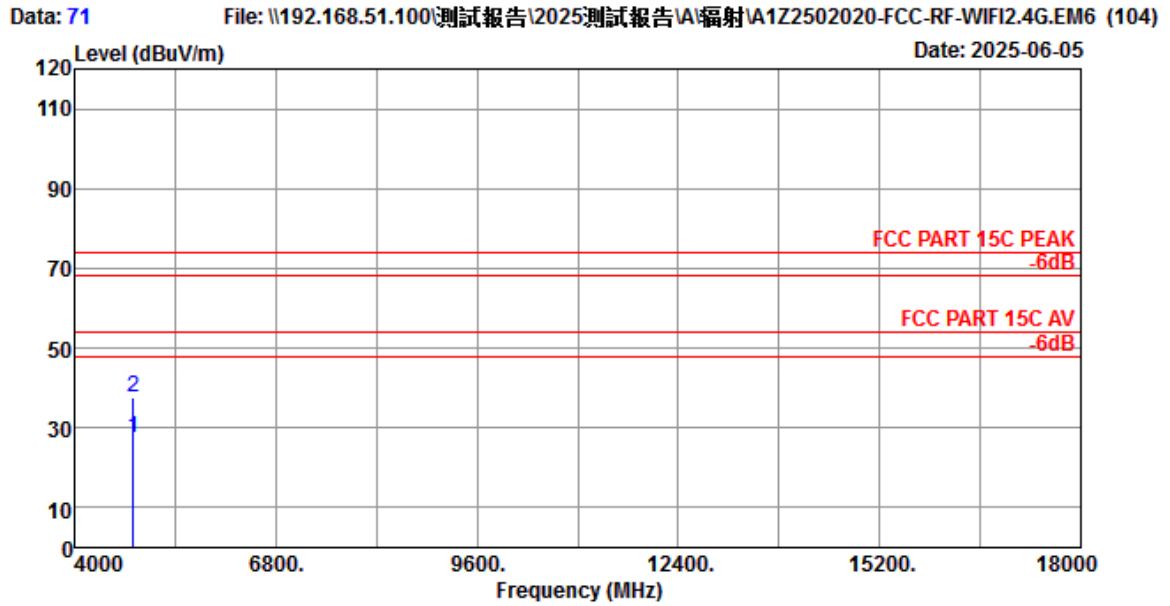
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

FCC ID: 2BCTP-CSPLUS

Data: 70 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 70
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n20 2412MHz TX Mode		

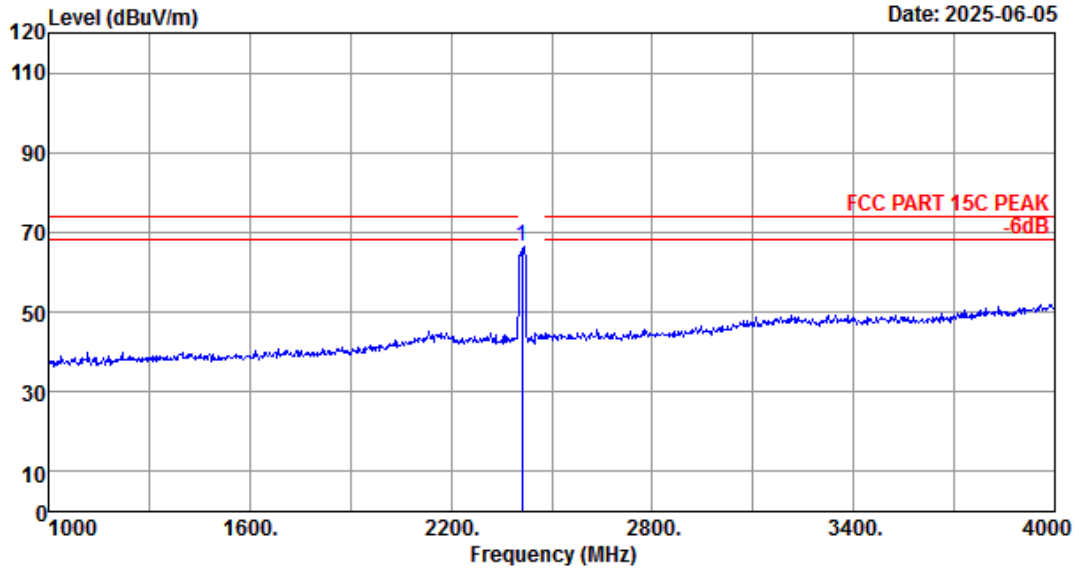


Site no. : RF Chamber Data no. : 71
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2412MHz TX Mode

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	4824.000	32.00	6.60	48.18	37.18	27.60	54.00	26.40	Average
2	4824.000	32.00	6.60	48.18	47.24	37.66	74.00	36.34	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.

Data: 72 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



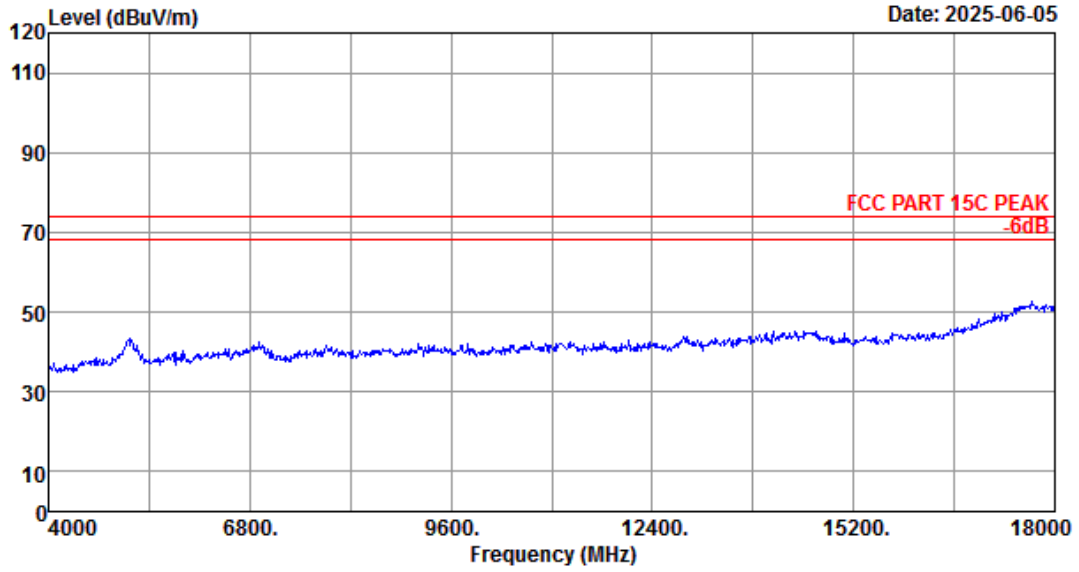
Site no. : RF Chamber Data no. : 72
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2412MHz TX Mode

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	2412.000	27.60	4.60	49.63	84.07	66.64	-----	-----	Peak

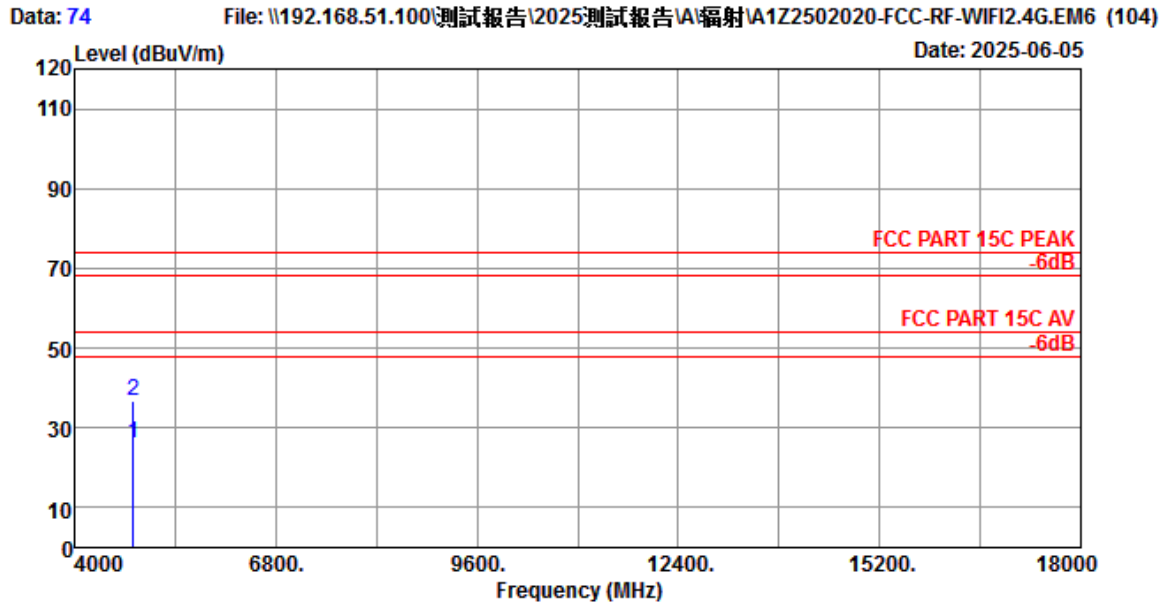
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

FCC ID: 2BCTP-CSPLUS

Data: 73 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



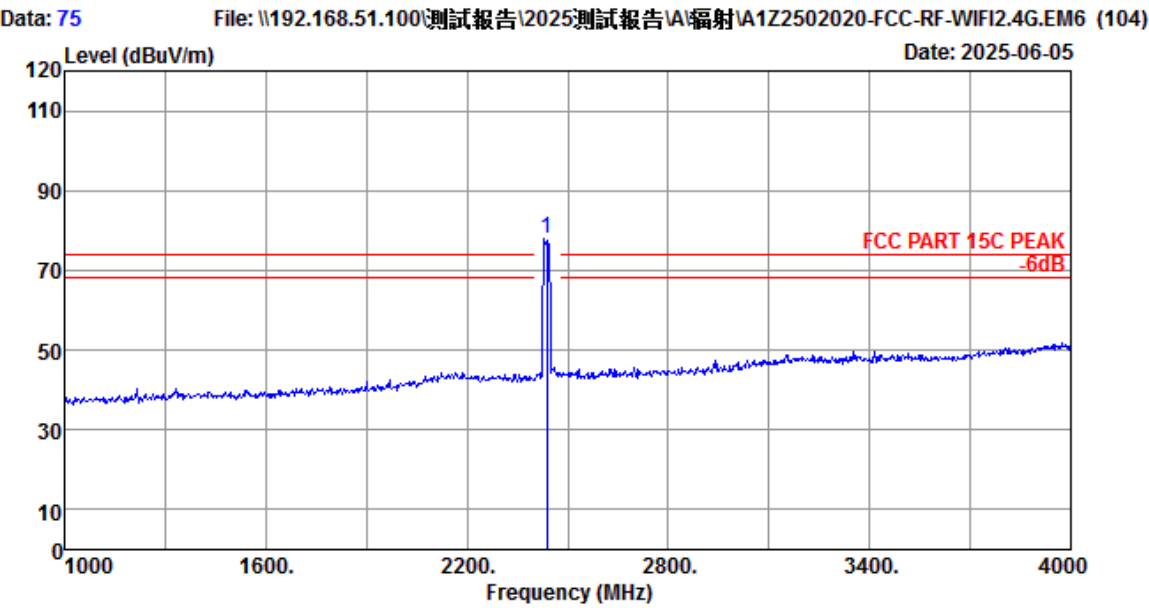
Site no.	: RF Chamber	Data no.	: 73
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n20 2412MHz TX Mode		



Site no. : RF Chamber Data no. : 74
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2412MHz TX Mode

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	4824.000	32.00	6.60	48.18	35.67	26.09	54.00	27.91	Average
2	4824.000	32.00	6.60	48.18	46.33	36.75	74.00	37.25	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.



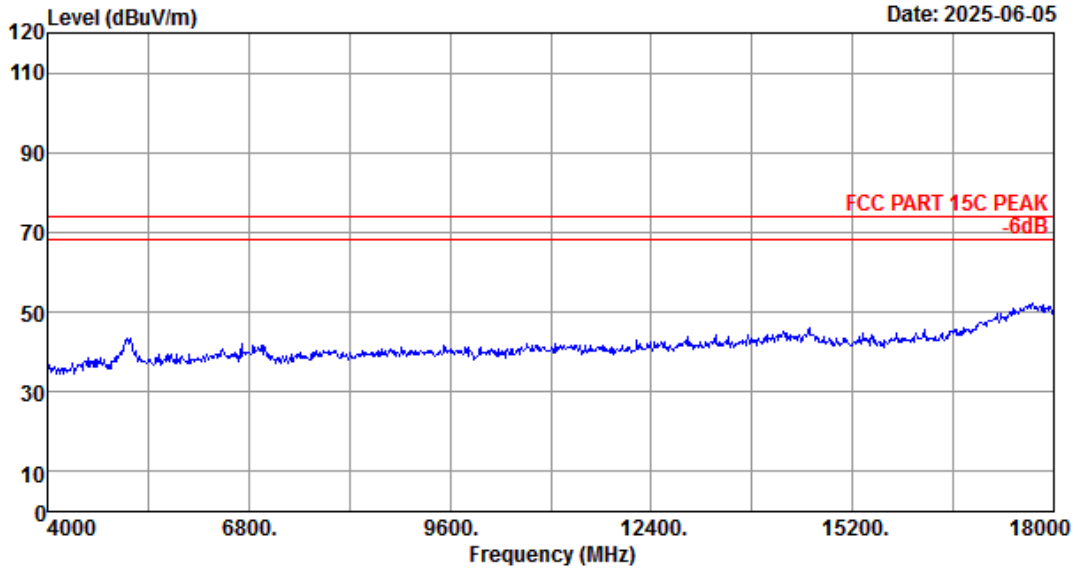
Site no. : RF Chamber Data no. : 75
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2437MHz TX Mode

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	2437.000	27.60	4.64	49.61	95.35	77.98	-----	-----	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.

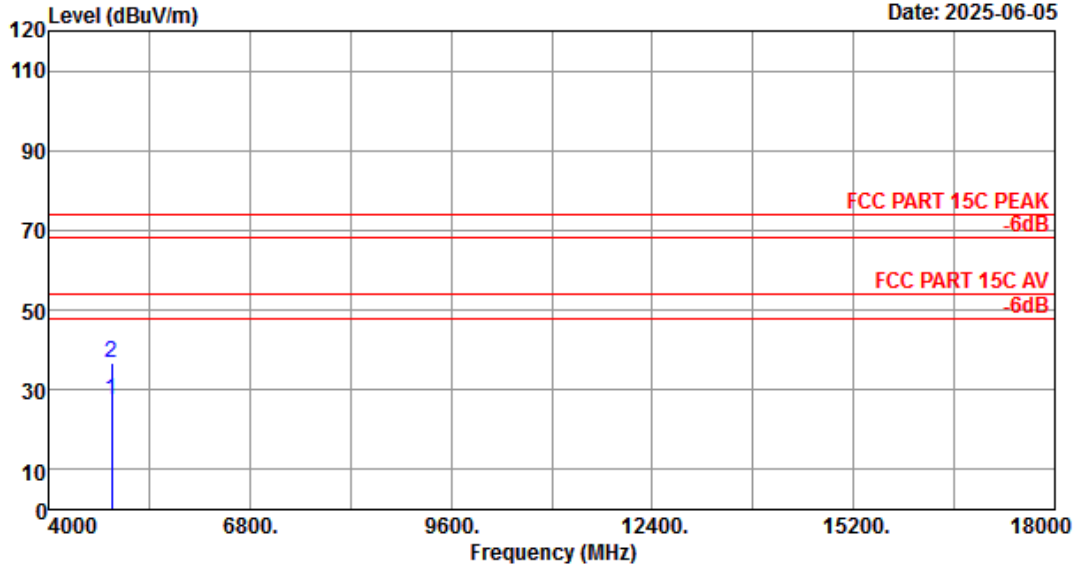
FCC ID: 2BCTP-CSPLUS

Data: 76 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 76
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n20 2437MHz TX Mode		

Data: 77 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05

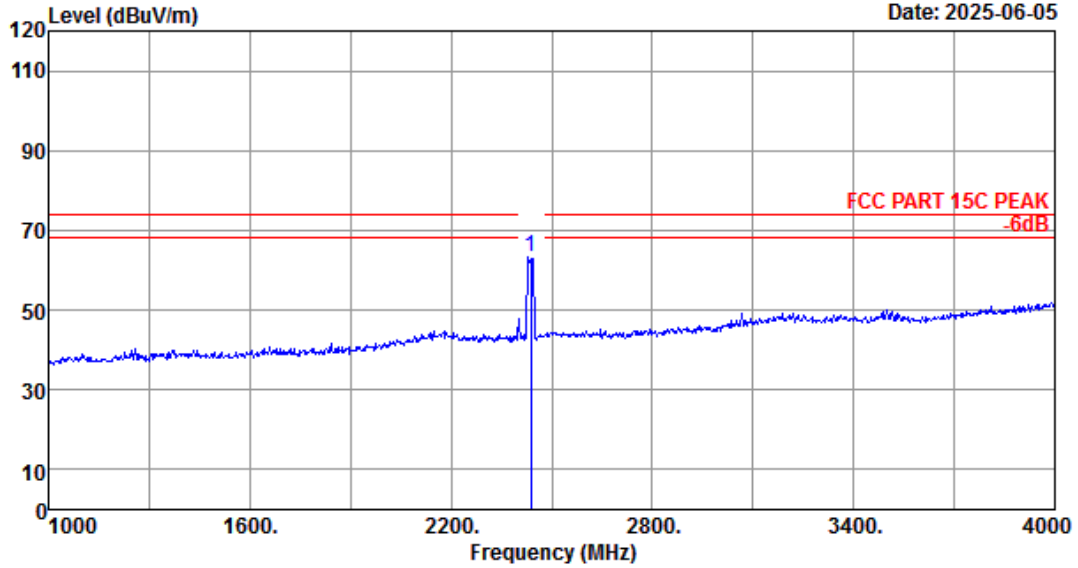


Site no. : RF Chamber Data no. : 77
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2437MHz TX Mode

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	4874.000	32.44	6.63	48.19	36.46	27.34	54.00	26.66	Average
2	4874.000	32.44	6.63	48.19	45.72	36.60	74.00	37.40	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.

Data: 78 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05



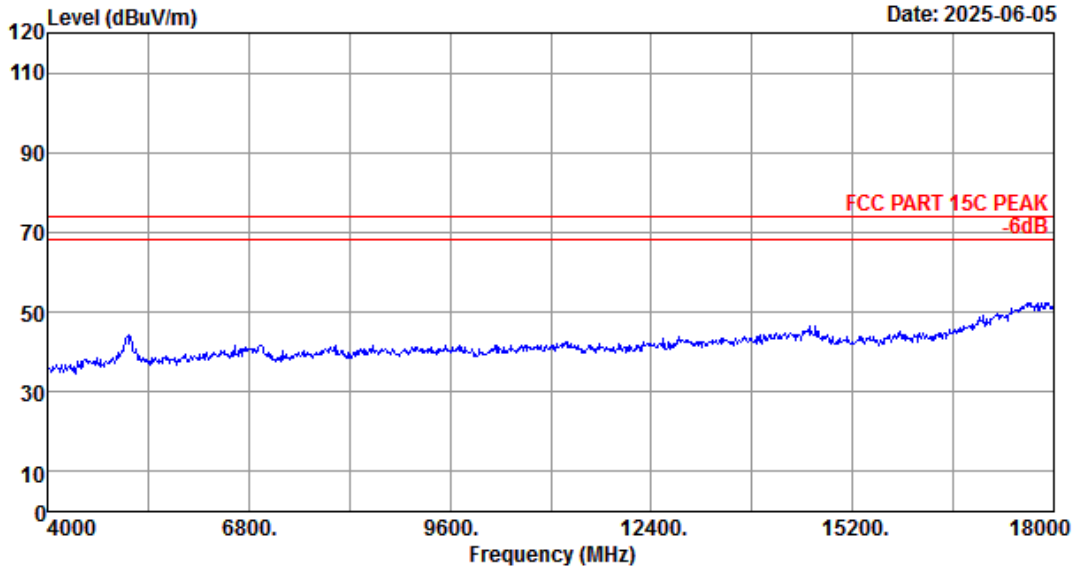
Site no. : RF Chamber Data no. : 78
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2437MHz TX Mode

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	2437.000	27.60	4.64	49.61	80.85	63.48	-----	-----	Peak

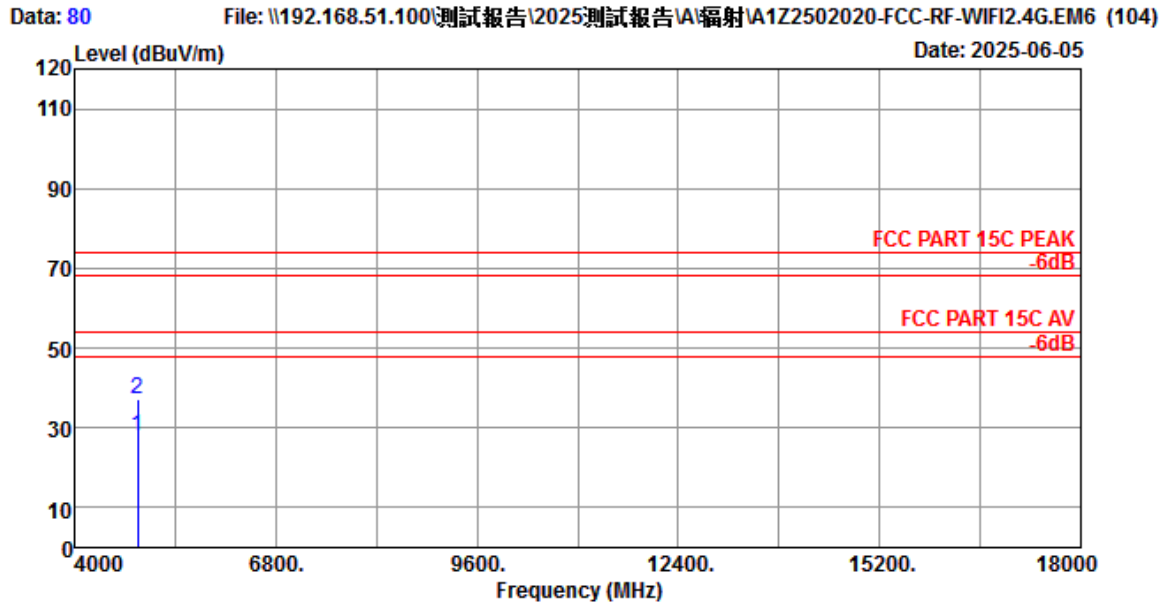
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

FCC ID: 2BCTP-CSPLUS

Data: 79 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 79
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n20 2437MHz TX Mode		

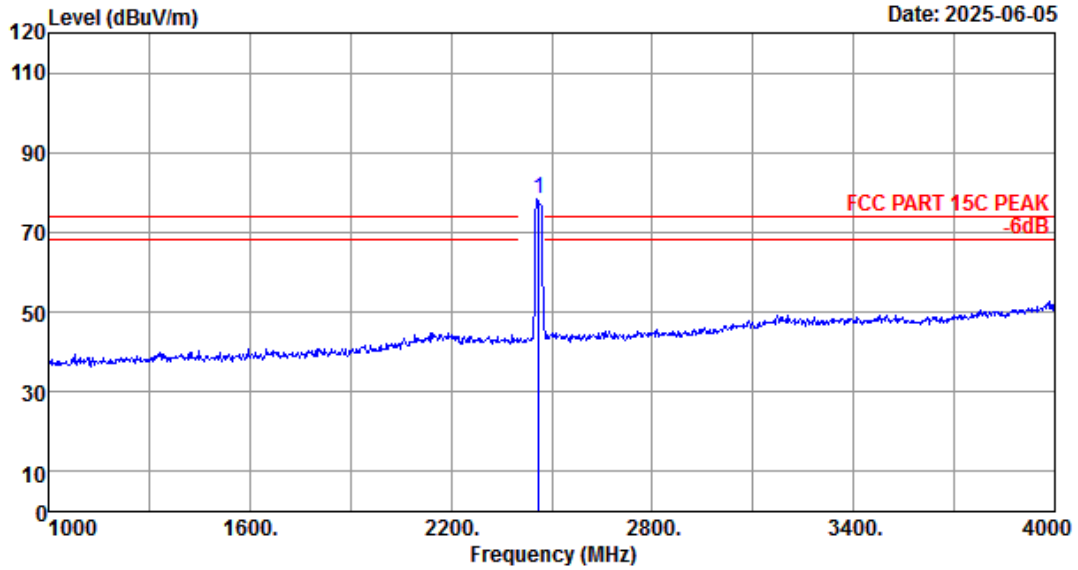


Site no. : RF Chamber Data no. : 80
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2437MHz TX Mode

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	4874.000	32.44	6.63	48.19	36.97	27.85	54.00	26.15	Average
2	4874.000	32.44	6.63	48.19	46.19	37.07	74.00	36.93	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.

Data: 81 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



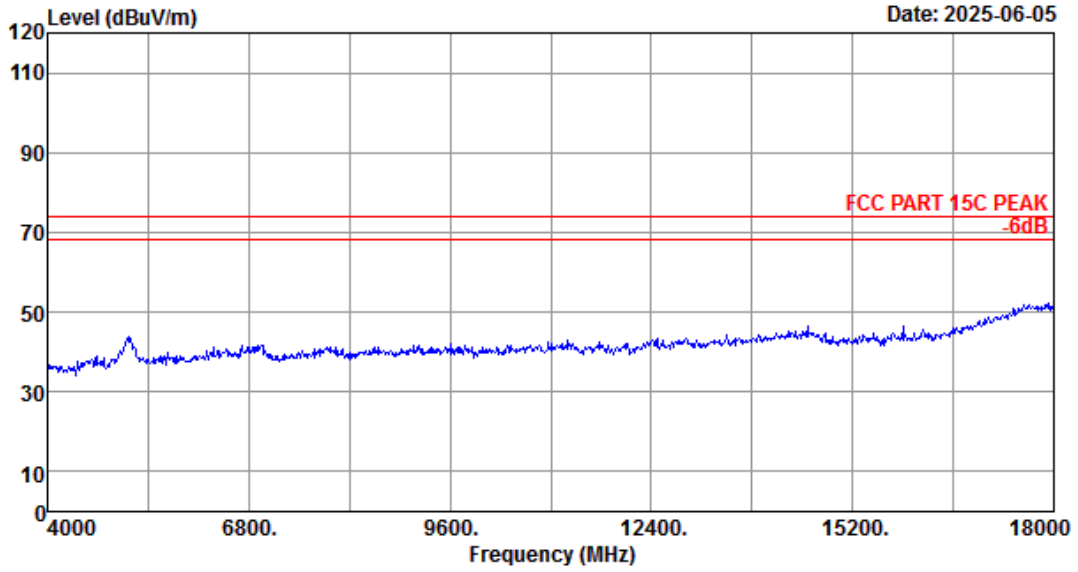
Site no. : RF Chamber Data no. : 81
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2462MHz TX Mode

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	2462.000	27.70	4.66	49.58	95.38	78.16	-----	-----	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.

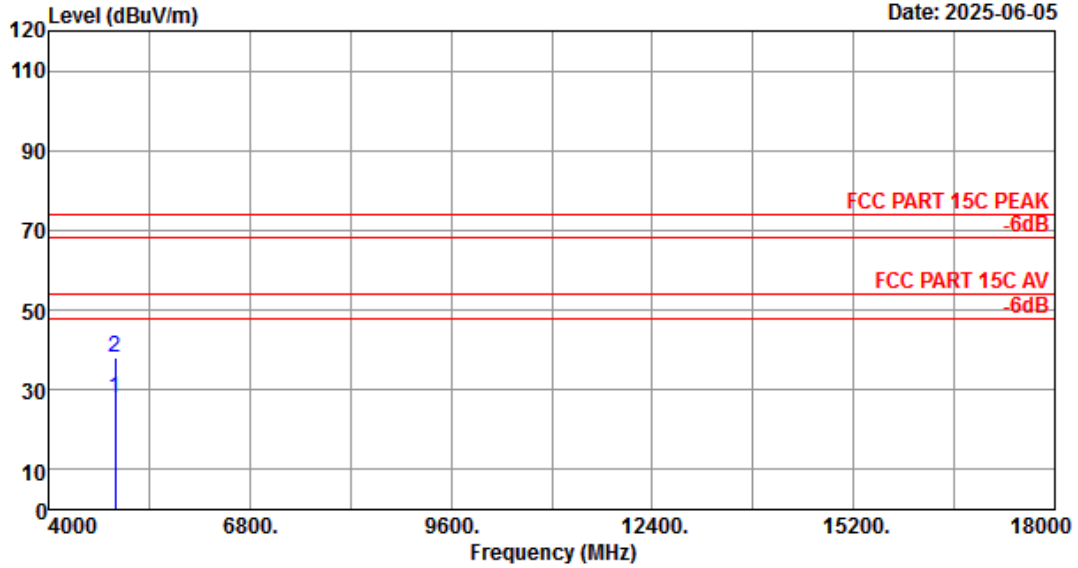
FCC ID: 2BCTP-CSPLUS

Data: 82 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 82
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n20 2462MHz TX Mode		

Data: 83 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05

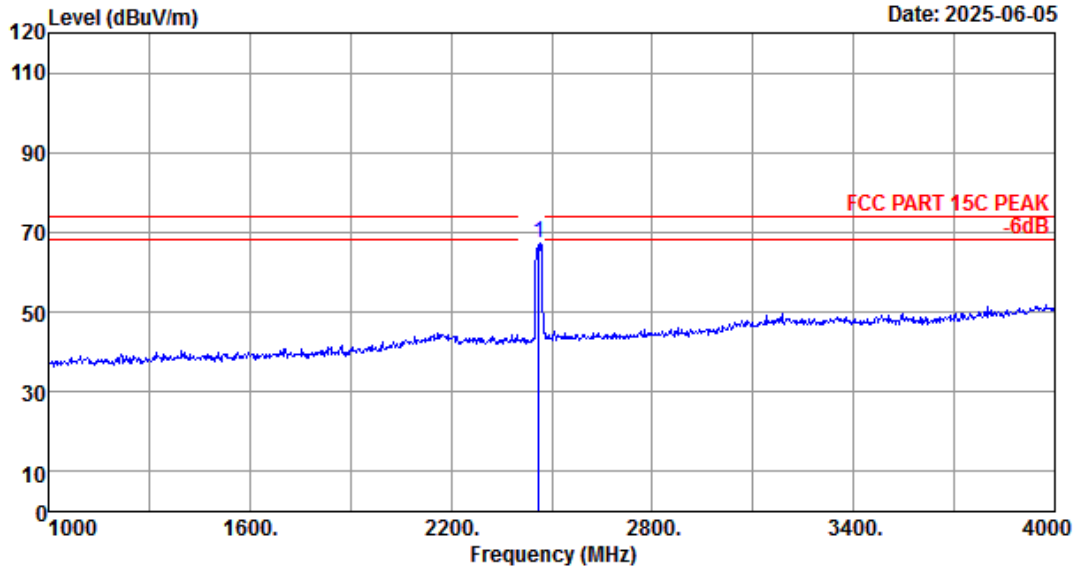


Site no. : RF Chamber Data no. : 83
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2462MHz TX Mode

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	4924.000	33.09	6.66	48.19	36.50	28.06	54.00	25.94	Average
2	4924.000	33.09	6.66	48.19	46.60	38.16	74.00	35.84	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.

Data: 84 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



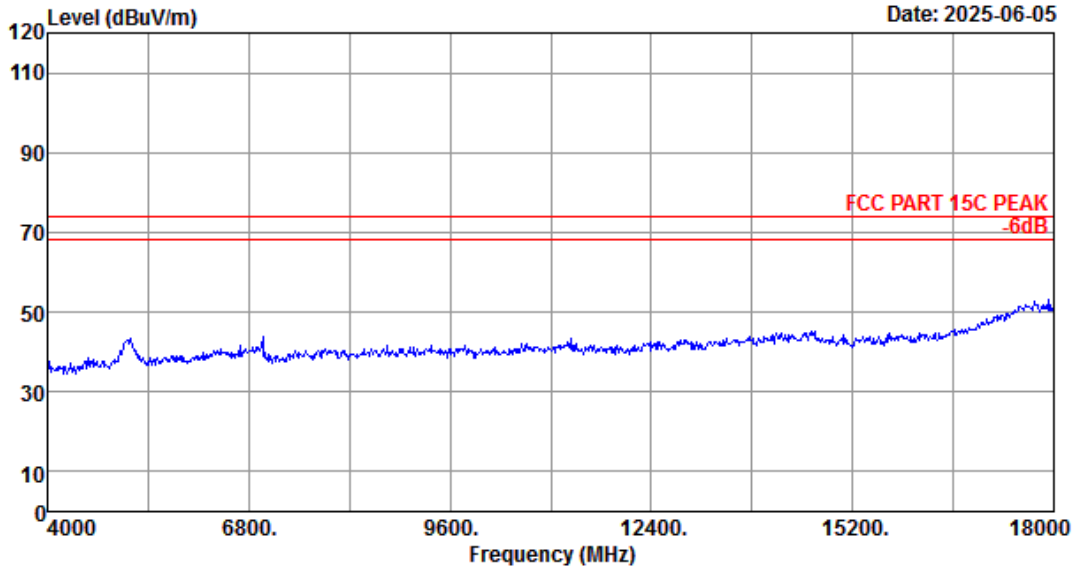
Site no. : RF Chamber Data no. : 84
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2462MHz TX Mode

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	2462.000	27.70	4.66	49.58	84.44	67.22	-----	-----	Peak

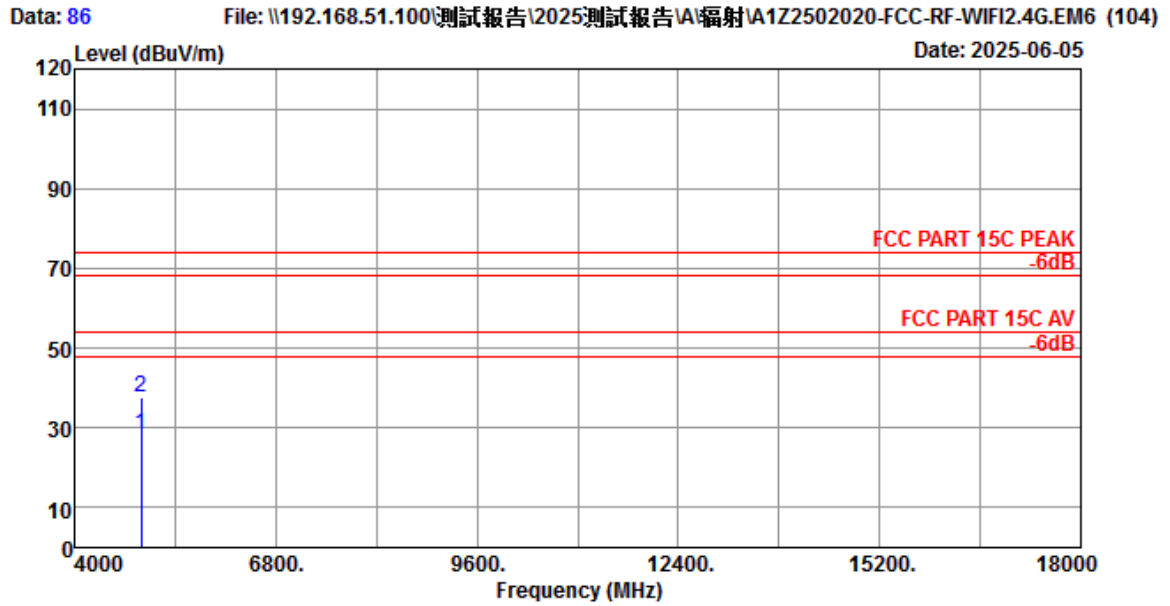
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

FCC ID: 2BCTP-CSPLUS

Data: 85 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



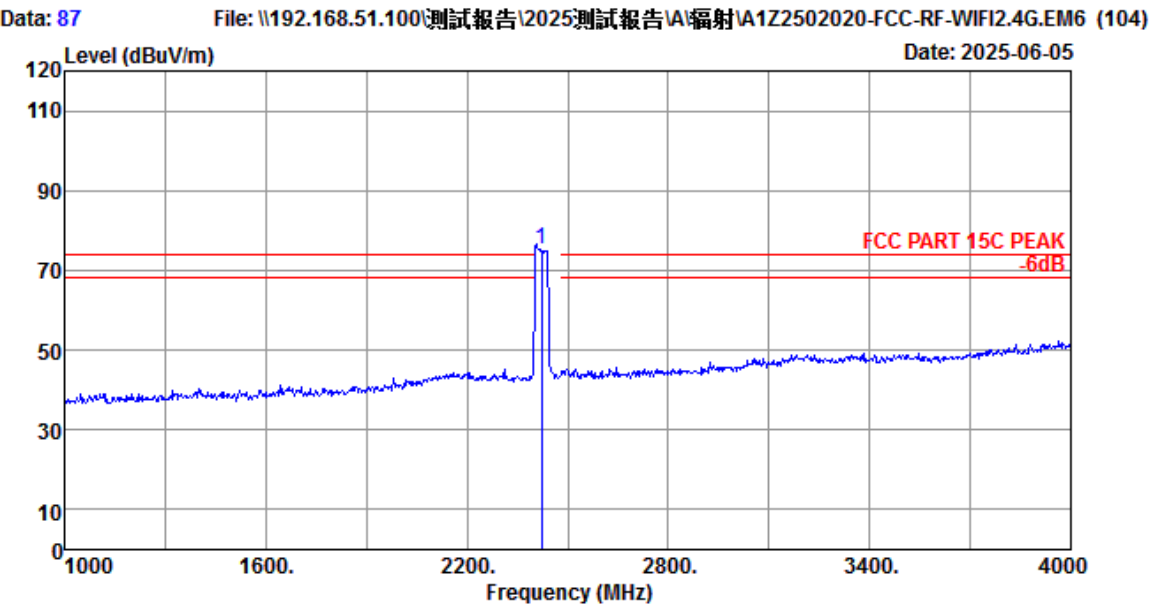
Site no.	: RF Chamber	Data no.	: 85
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n20 2462MHz TX Mode		



Site no. : RF Chamber Data no. : 86
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2462MHz TX Mode

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	4924.000	33.09	6.66	48.19	36.86	28.42	54.00	25.58	Average
2	4924.000	33.09	6.66	48.19	45.97	37.53	74.00	36.47	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.



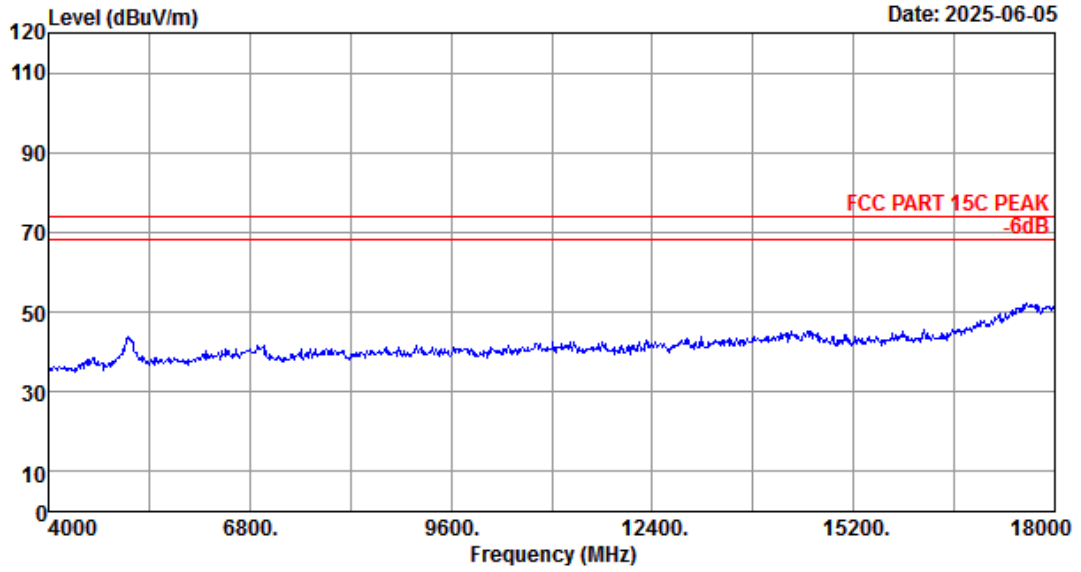
Site no.	: RF Chamber	Data no.	: 87
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n40 2422MHz TX Mode		

No.	Freq. (MHz)	Ant.	Cable	AMP	Reading (dBuV)	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.000	27.60	4.62	49.62	92.79	75.39	-----	-----	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.

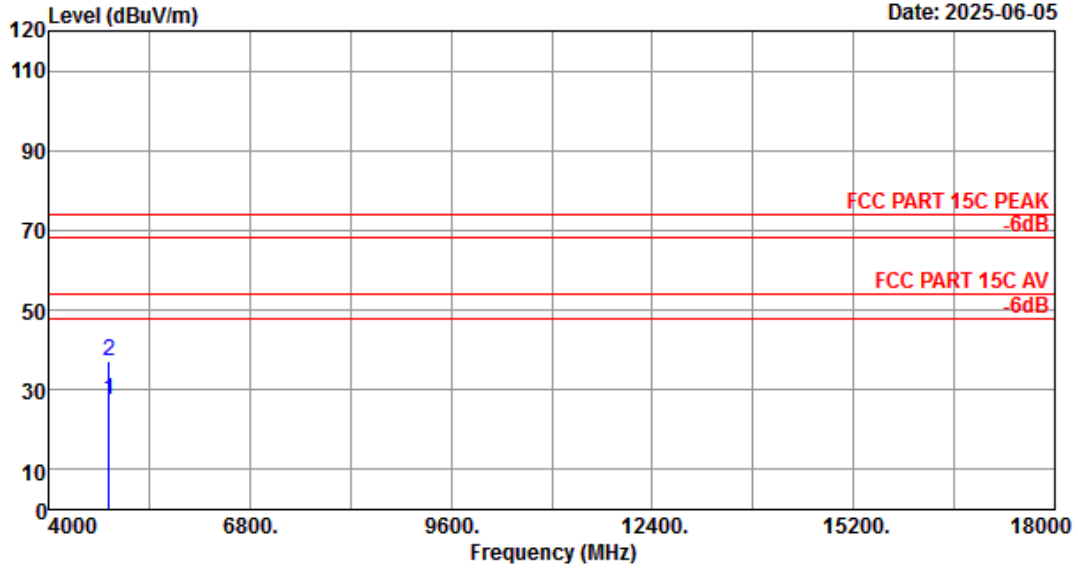
FCC ID: 2BCTP-CSPLUS

Data: 88 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 88
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n40 2422MHz TX Mode		

Data: 89 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05

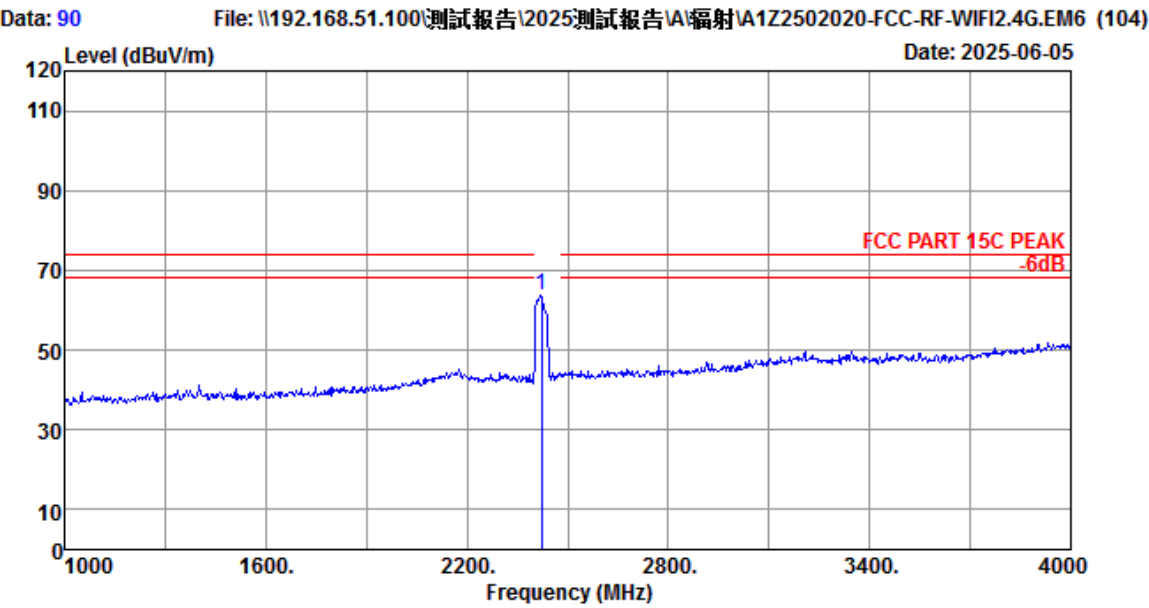


Site no. : RF Chamber Data no. : 89
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2422MHz TX Mode

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	4844.000	32.08	6.61	48.18	36.78	27.29	54.00	26.71	Average
2	4844.000	32.08	6.61	48.18	46.77	37.28	74.00	36.72	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.

FCC ID: 2BCTP-CSPLUS



Site no.	: RF Chamber	Data no.	: 90
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n40 2422MHz TX Mode		

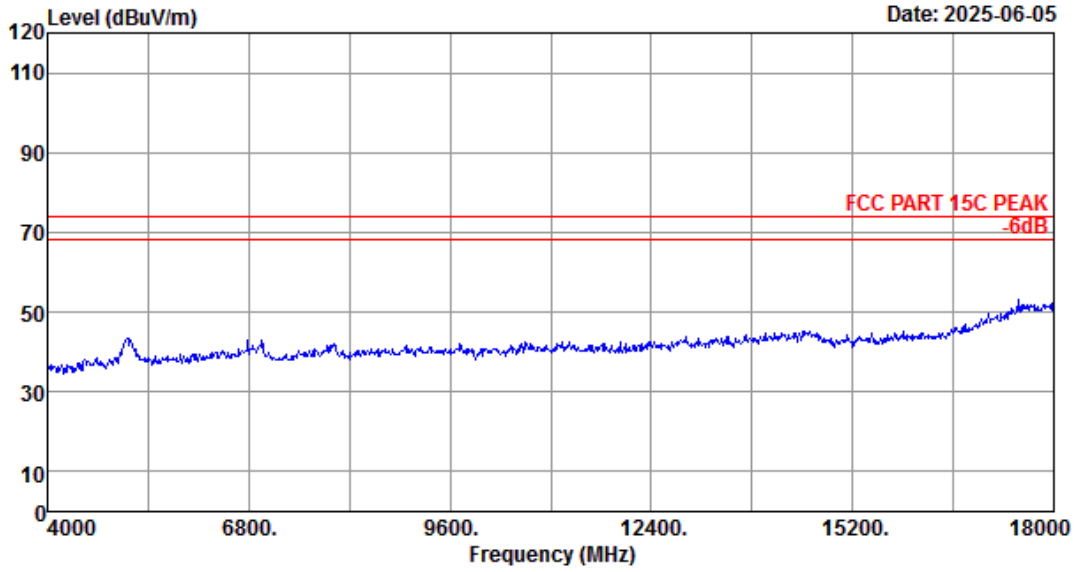
No.	Freq. (MHz)	Ant.	Cable	AMP	Reading (dBuV)	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.000	27.60	4.62	49.62	81.11	63.71	-----	-----	Peak

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.

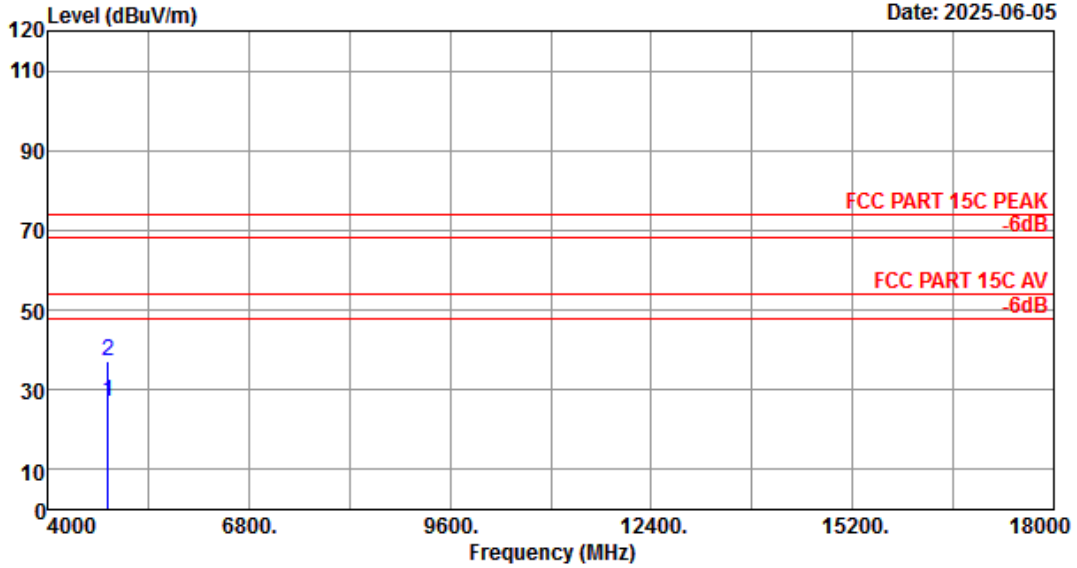
FCC ID: 2BCTP-CSPLUS

Data: 91 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 91
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n40 2422MHz TX Mode		

Data: 92 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05

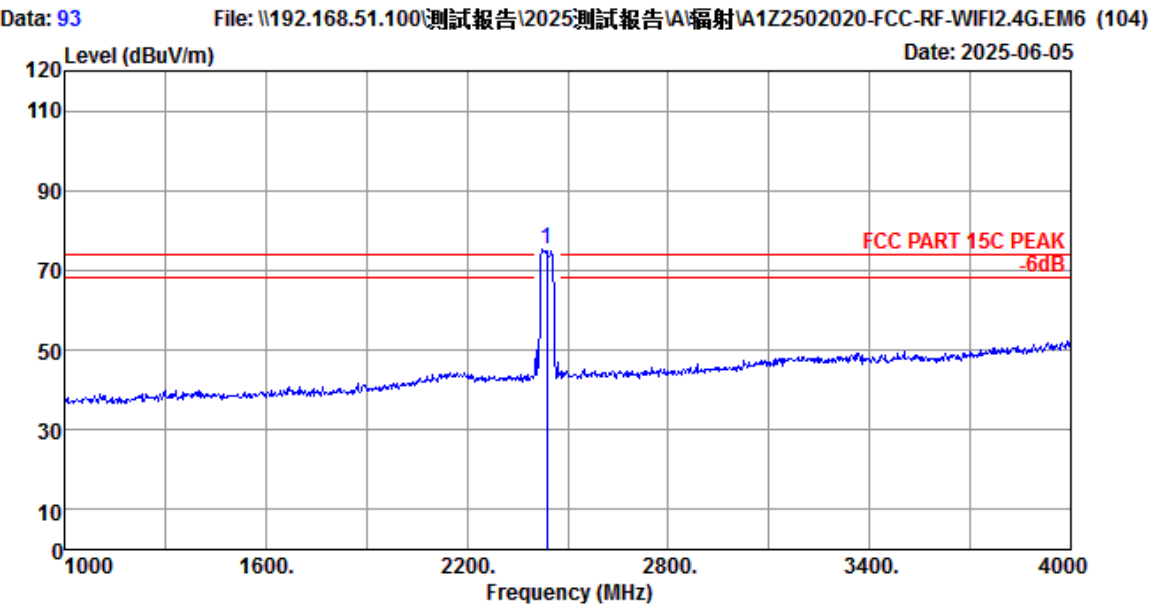


Site no. : RF Chamber Data no. : 92
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2422MHz TX Mode

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	4844.000	32.08	6.61	48.18	36.47	26.98	54.00	27.02	Average
2	4844.000	32.08	6.61	48.18	46.60	37.11	74.00	36.89	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.

FCC ID: 2BCTP-CSPLUS



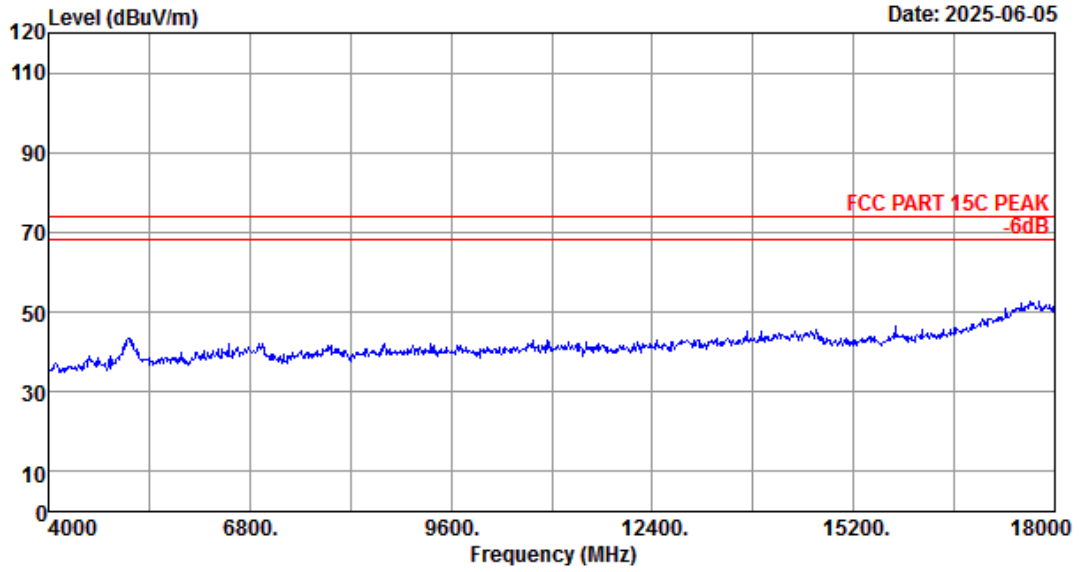
Site no.	: RF Chamber	Data no.	: 93
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n40 2437MHz TX Mode		

No.	Freq. (MHz)	Ant.	Cable	AMP	Reading (dBuV)	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	27.60	4.64	49.61	92.47	75.10	-----	-----	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.

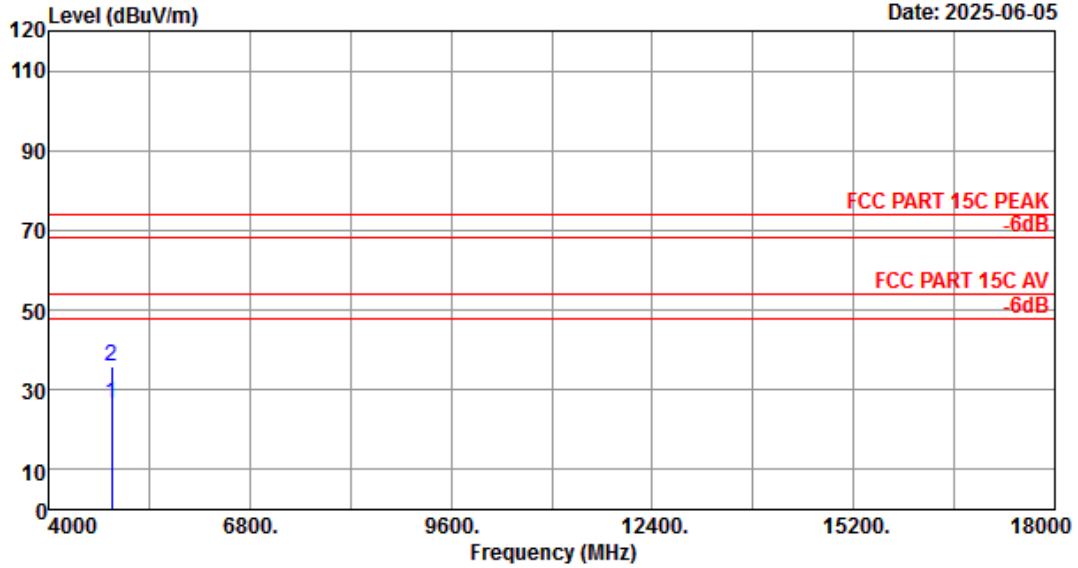
FCC ID: 2BCTP-CSPLUS

Data: 94 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 94
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n40 2437MHz TX Mode		

Data: 95 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05

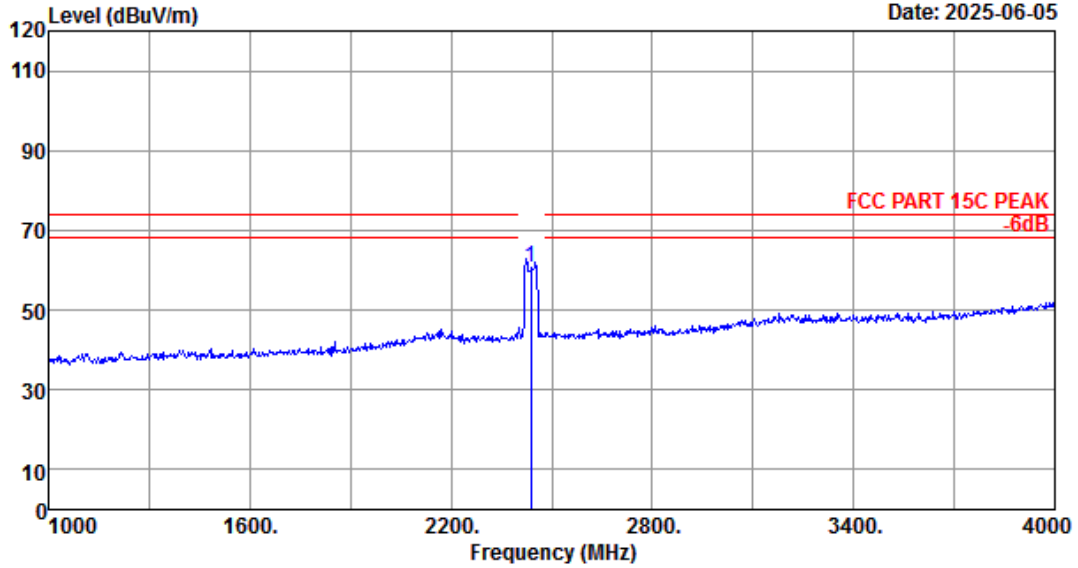


Site no. : RF Chamber Data no. : 95
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2437MHz TX Mode

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	4874.000	32.44	6.63	48.19	35.89	26.77	54.00	27.23	Average
2	4874.000	32.44	6.63	48.19	45.19	36.07	74.00	37.93	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.

Data: 96 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05



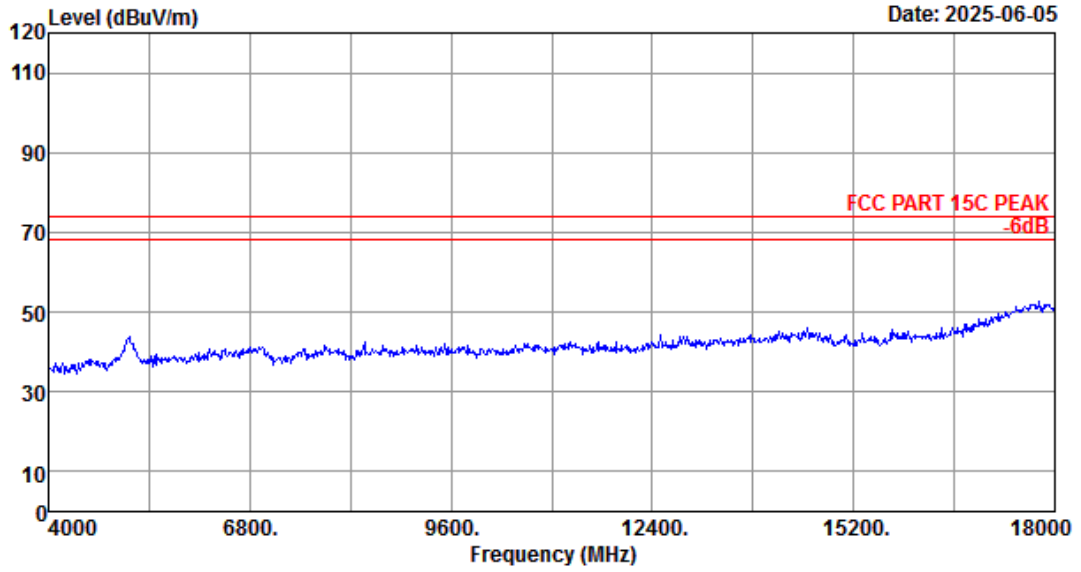
Site no. : RF Chamber Data no. : 96
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2437MHz TX Mode

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	2437.000	27.60	4.64	49.61	78.11	60.74	-----	-----	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.

FCC ID: 2BCTP-CSPLUS

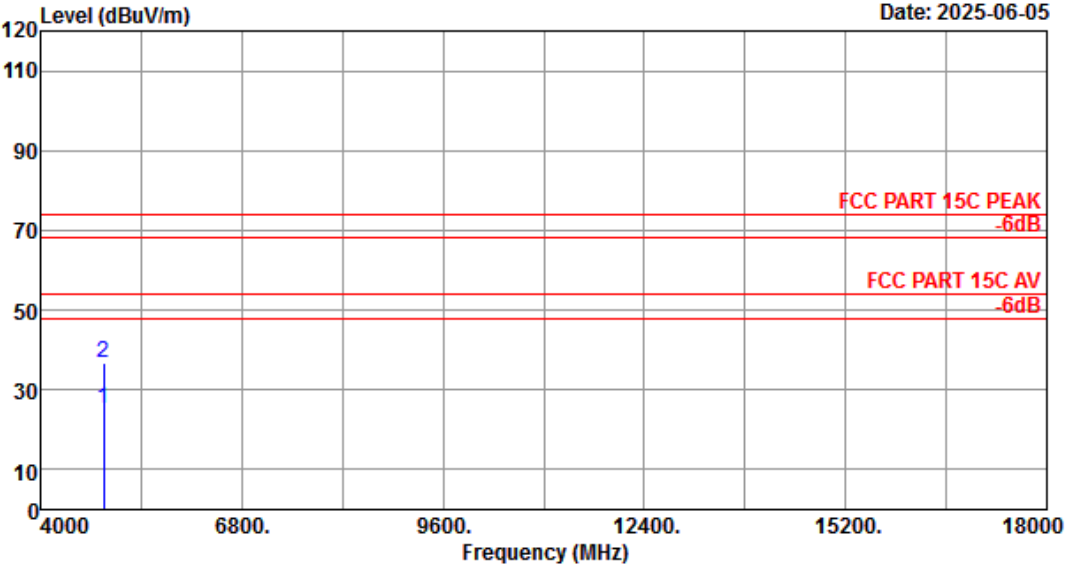
Data: 97 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 97
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n40 2437MHz TX Mode		

FCC ID: 2BCTP-CSPLUS

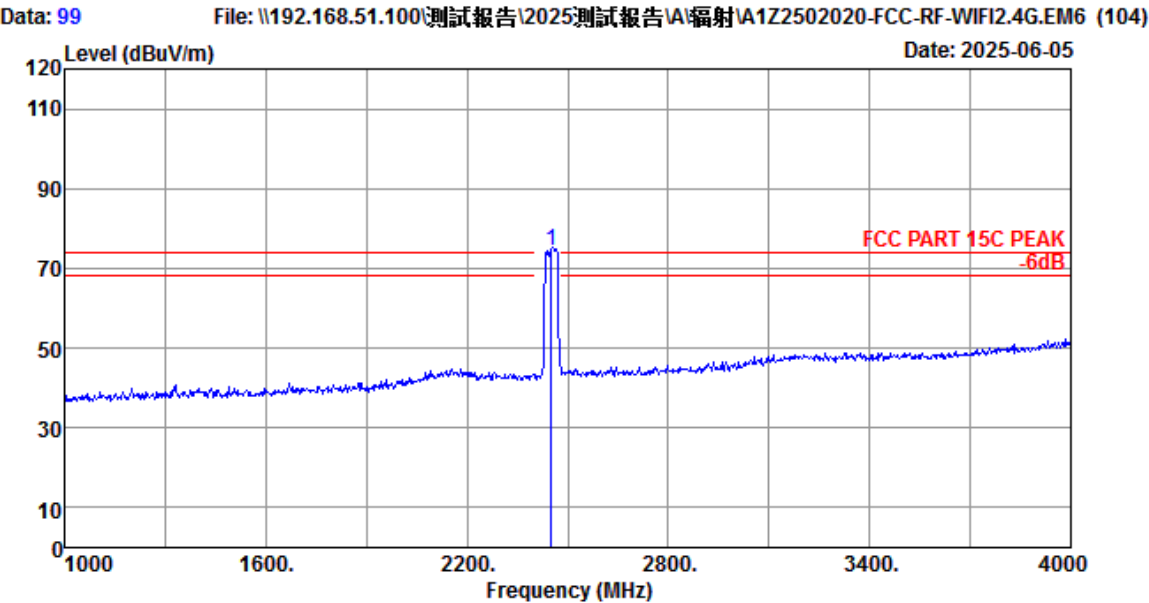
Data: 98 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no. : RF Chamber Data no. : 98
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2437MHz TX Mode

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	4874.000	32.44	6.63	48.19	34.28	25.16	54.00	28.84	Average
2	4874.000	32.44	6.63	48.19	45.69	36.57	74.00	37.43	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.	: RF Chamber	Data no.	: 99
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n40 2452MHz TX Mode		

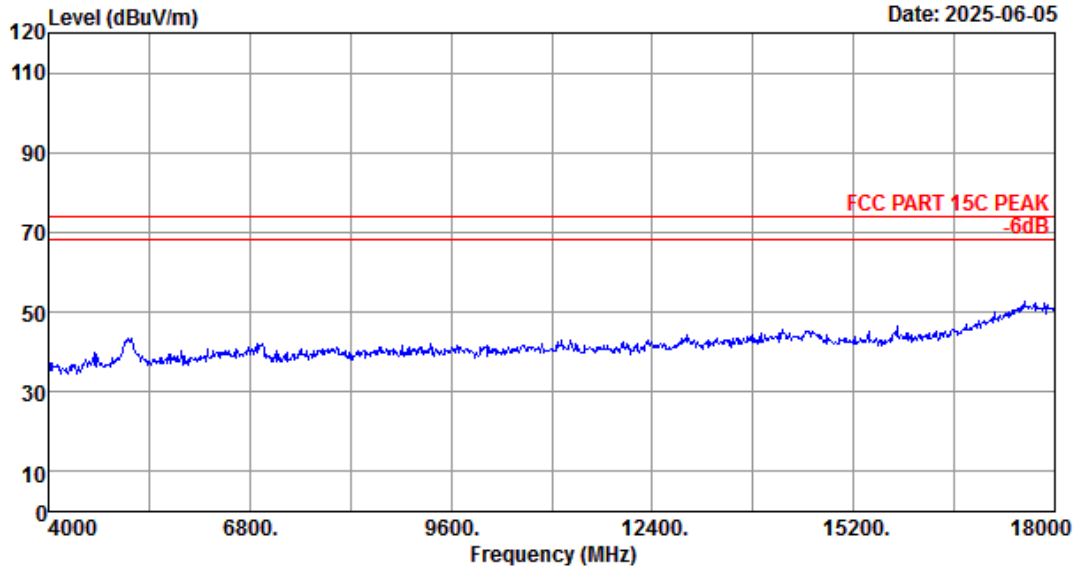
No.	Freq. (MHz)	Ant.	Cable	AMP	Reading (dBuV)	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.000	27.62	4.64	49.59	91.69	74.36	-----	-----	Peak

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.

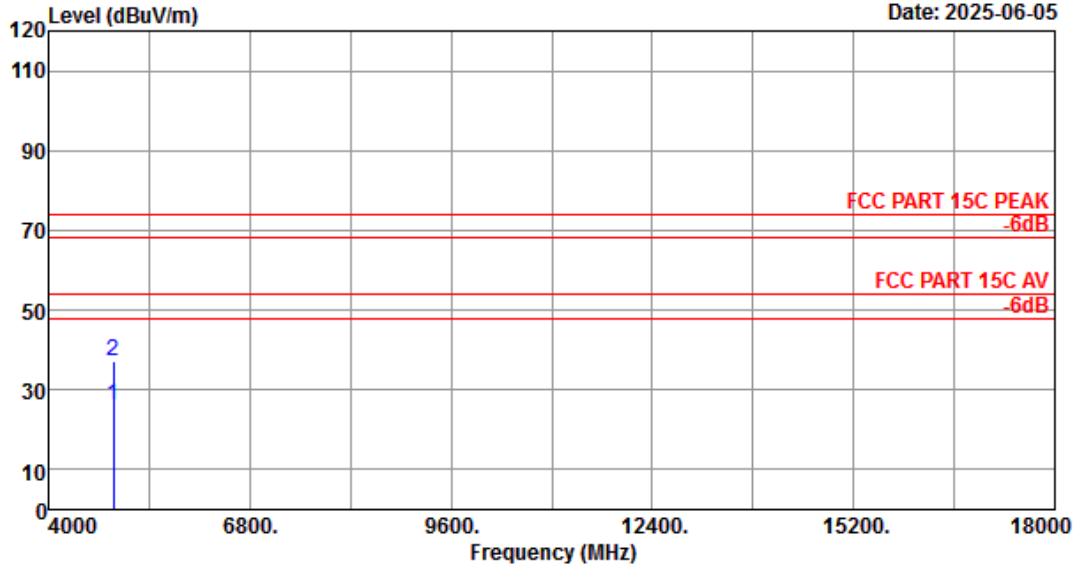
FCC ID: 2BCTP-CSPLUS

Data: 100 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 100
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n40 2452MHz TX Mode		

Data: 101 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05

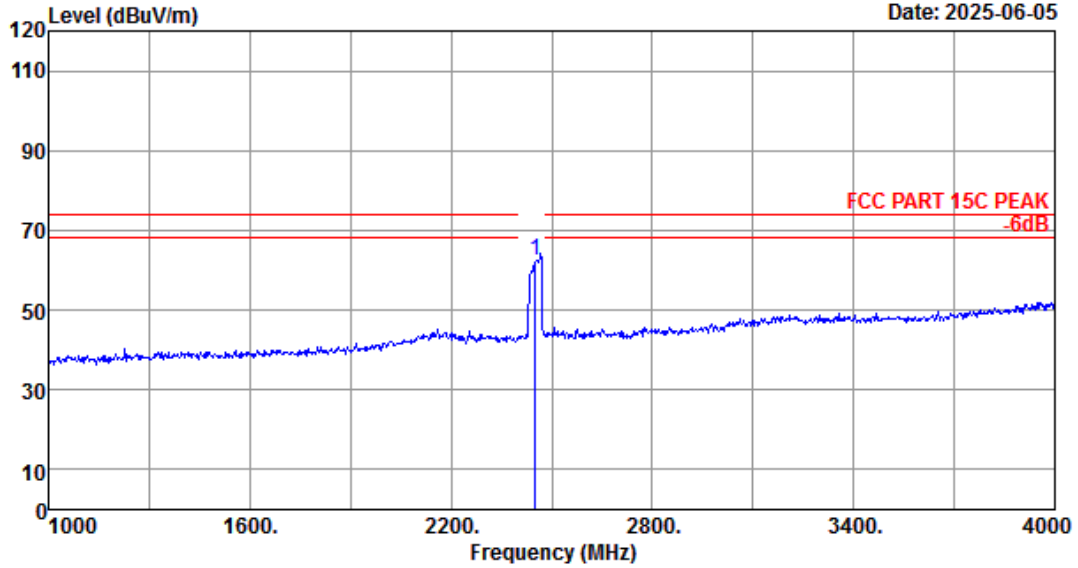


Site no. : RF Chamber Data no. : 101
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2452MHz TX Mode

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	4904.000	32.85	6.65	48.19	34.67	25.98	54.00	28.02	Average
2	4904.000	32.85	6.65	48.19	45.82	37.13	74.00	36.87	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.

Data: 102 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104) Date: 2025-06-05



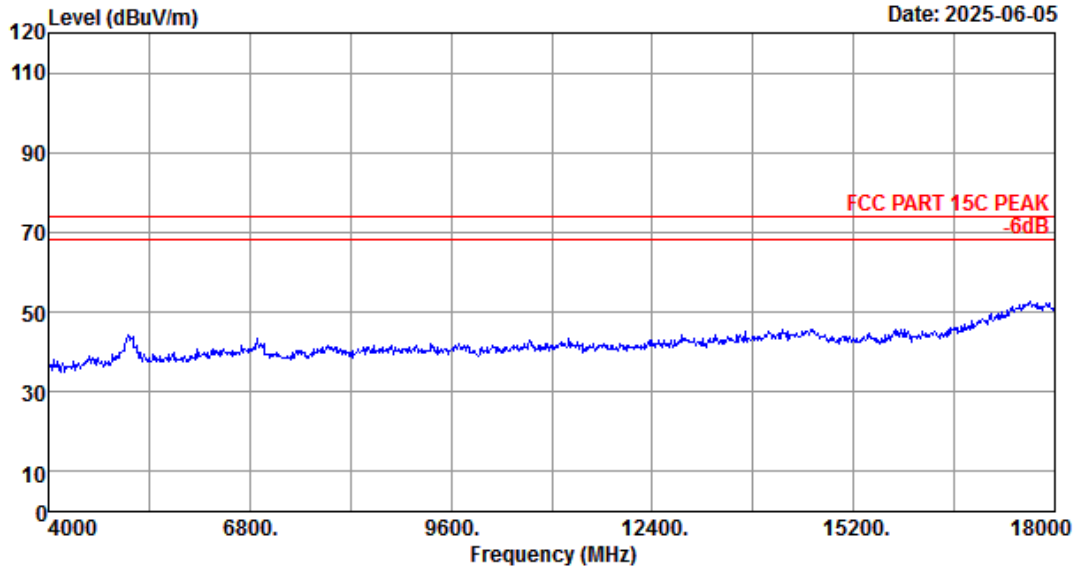
Site no. : RF Chamber Data no. : 102
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2452MHz TX Mode

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	2452.000	27.62	4.64	49.59	79.74	62.41	-----	-----	Peak

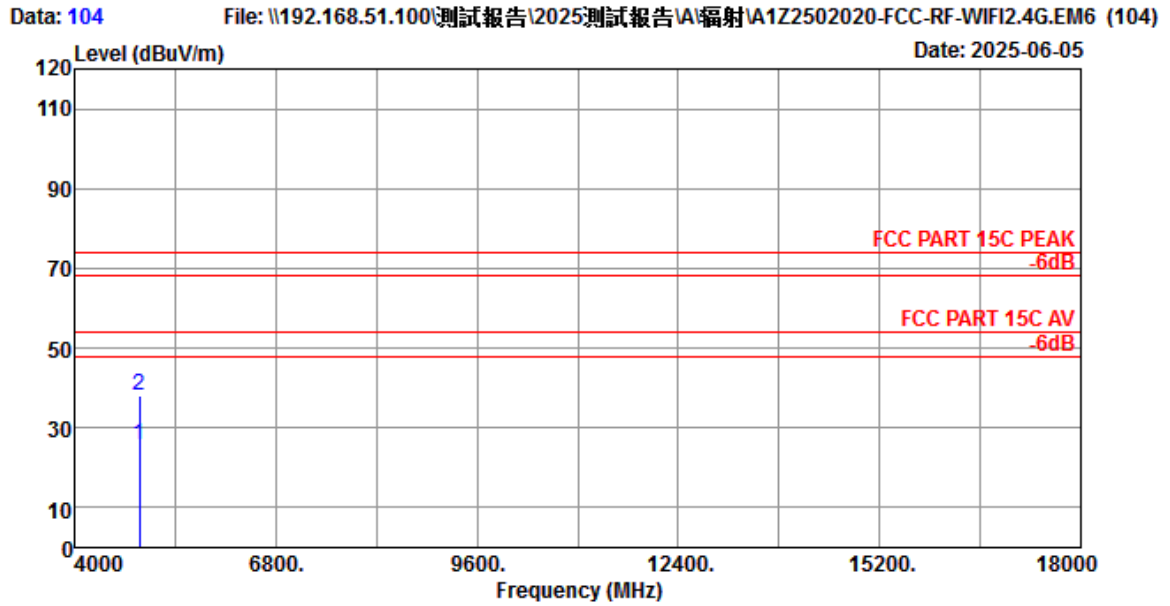
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

FCC ID: 2BCTP-CSPLUS

Data: 103 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no.	: RF Chamber	Data no.	: 103
Dis. / Ant.	: 3m 2024 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK	Engineer	: Epoch
Env. / Ins.	: 23.4°C/51%		
Test Mode	: WIFI2.4G 11n40 2452MHz TX Mode		



Site no. : RF Chamber Data no. : 104
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2452MHz TX Mode

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	4904.000	32.85	6.65	48.19	34.29	25.60	54.00	28.40	Average
2	4904.000	32.85	6.65	48.19	46.95	38.26	74.00	35.74	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.

5. CONDUCTED SPURIOUS EMISSIONS

5.1.Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30dB instead of 20dB.

5.2.Test Procedure

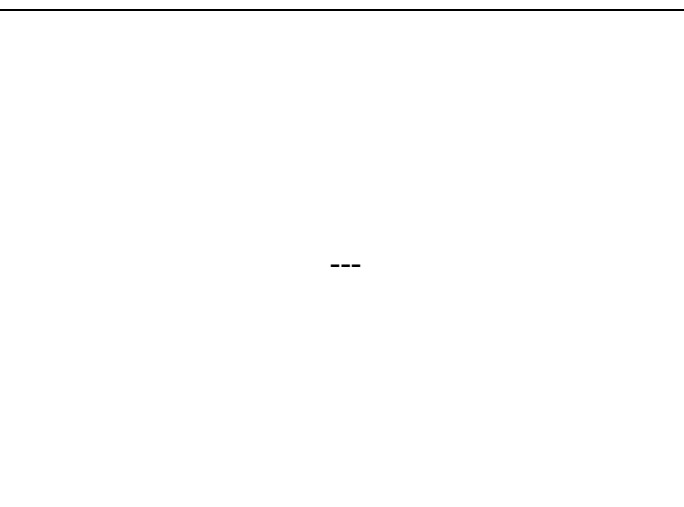
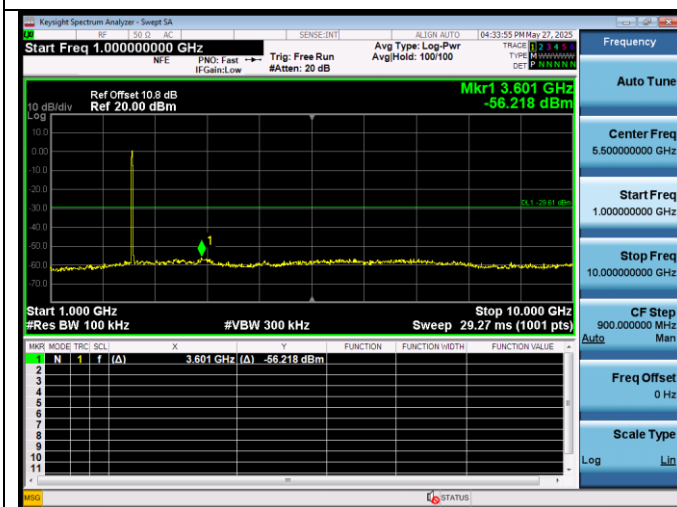
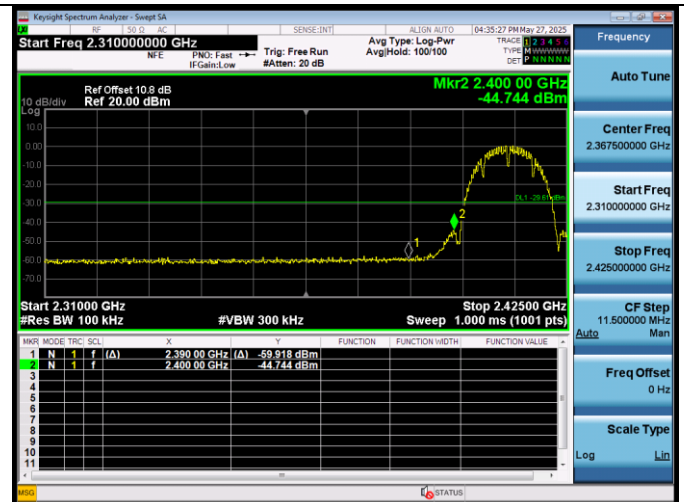
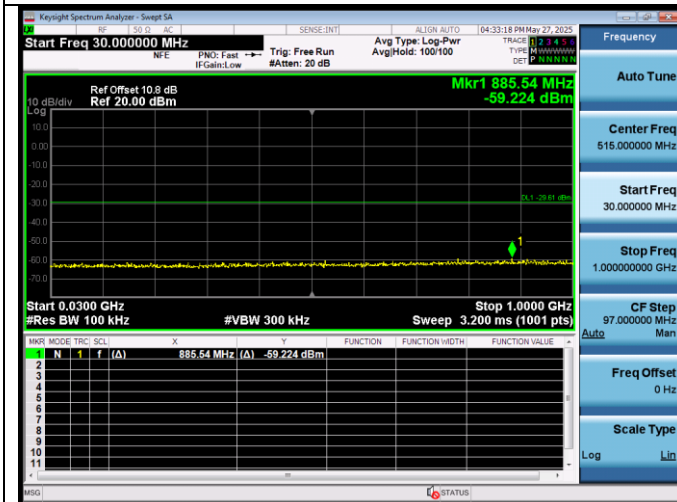
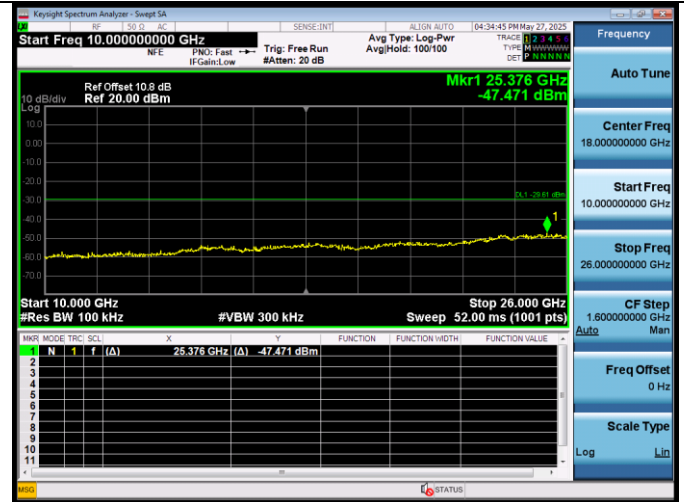
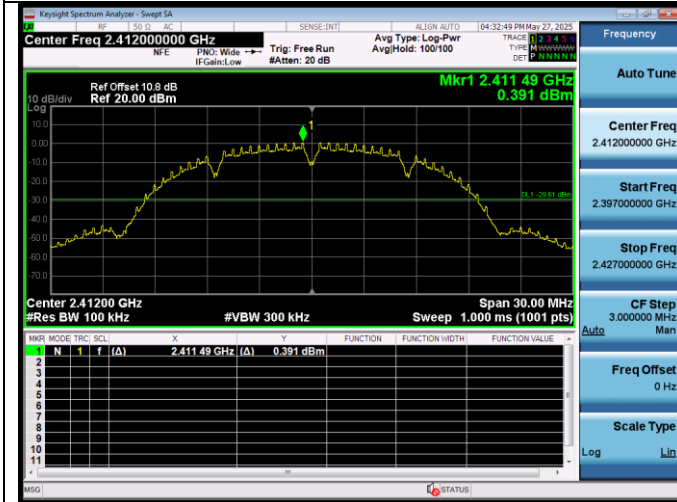
The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions with peak detector.

5.3.Test result

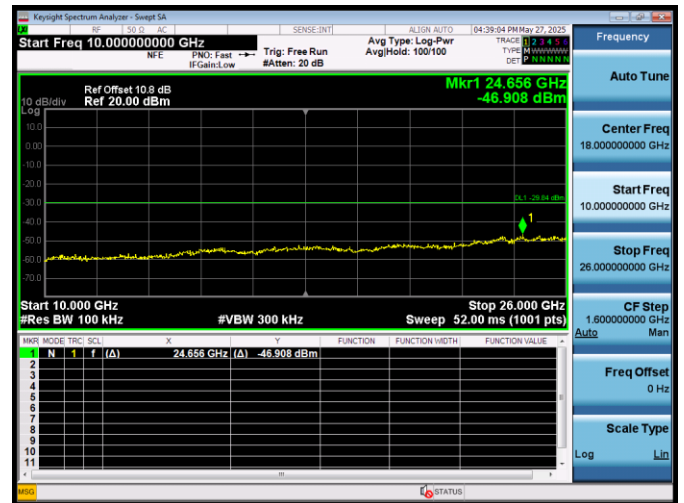
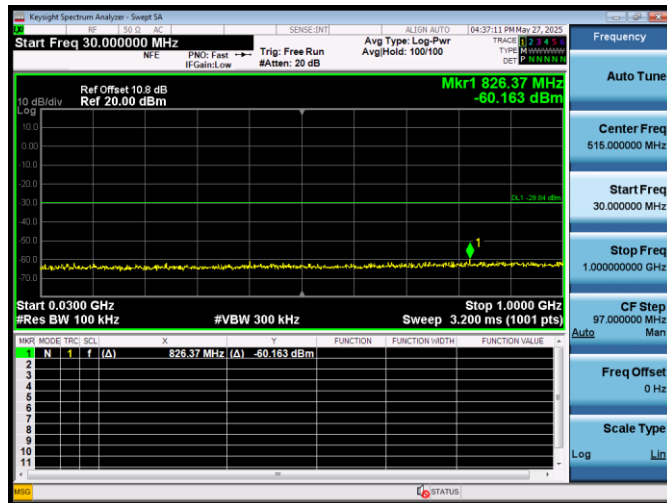
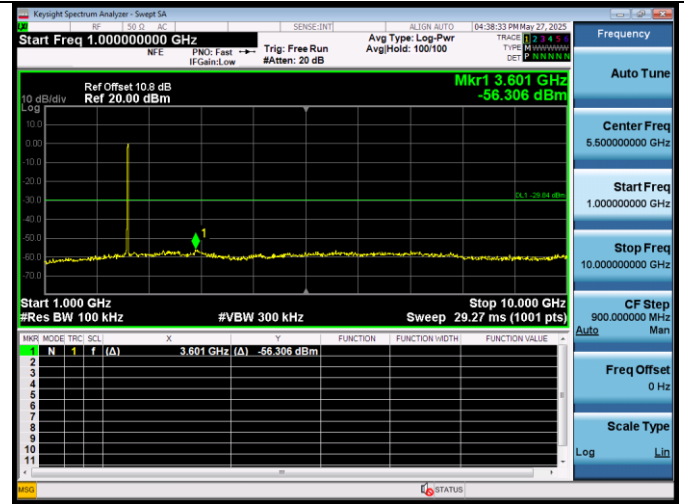
PASS (The testing data was attached in the next pages.)

EUT: Desktop 3D Printer		
M/N: Phrozen Sonic CS+ 3D Printer		
Test date: 2025-05-27	Pressure: 102.2±1.0 kpa	Humidity: 51.8±3.0%
Tested by: Carl	Test site: RF site	Temperature:22.5±0.6℃

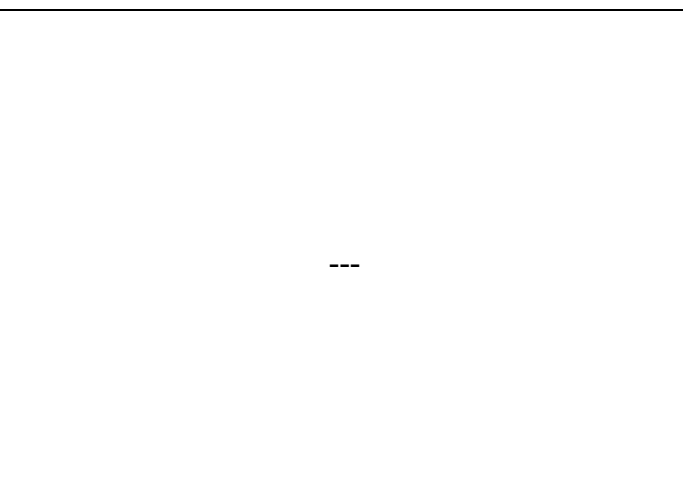
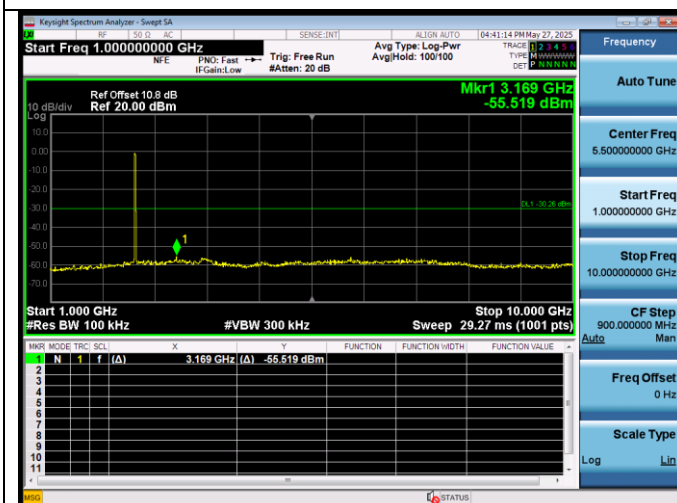
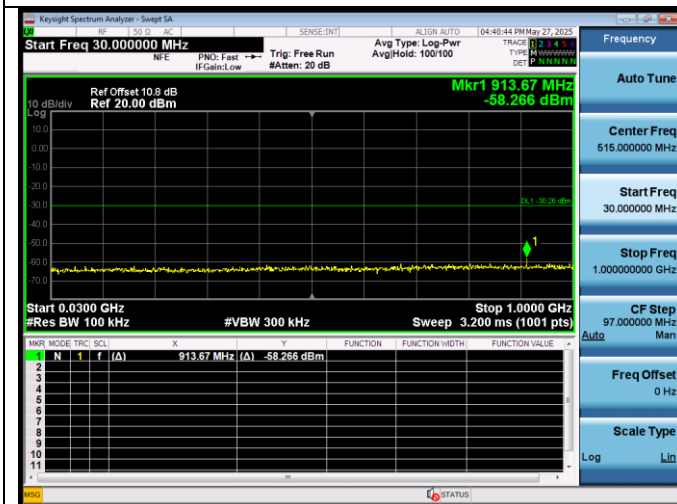
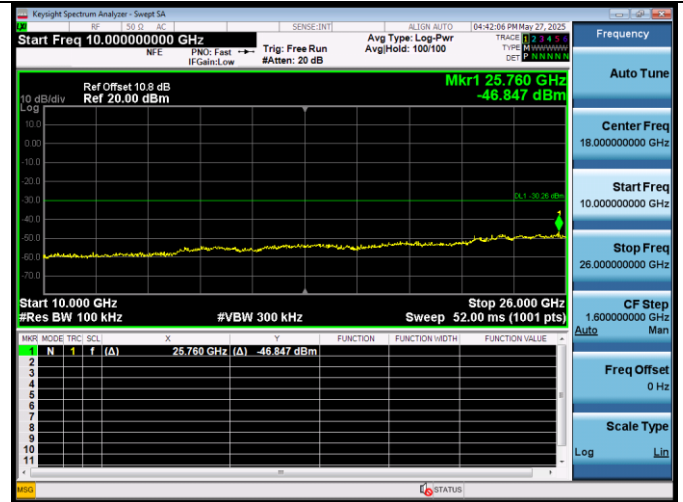
Test Mode: IEEE 802.11b
Test CH1: 2412MHz



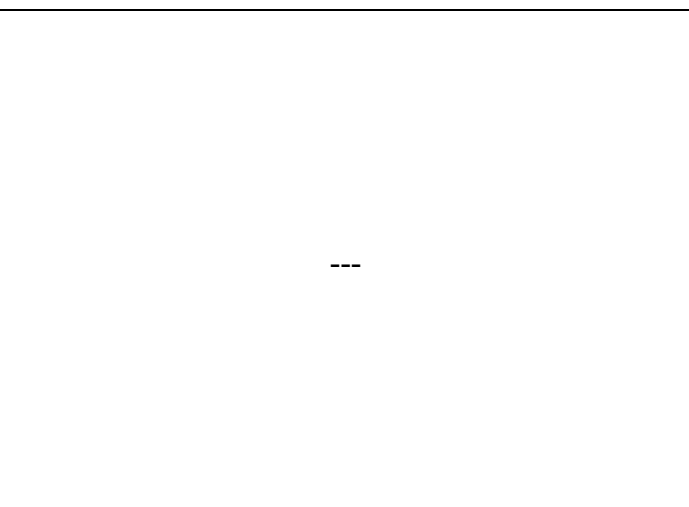
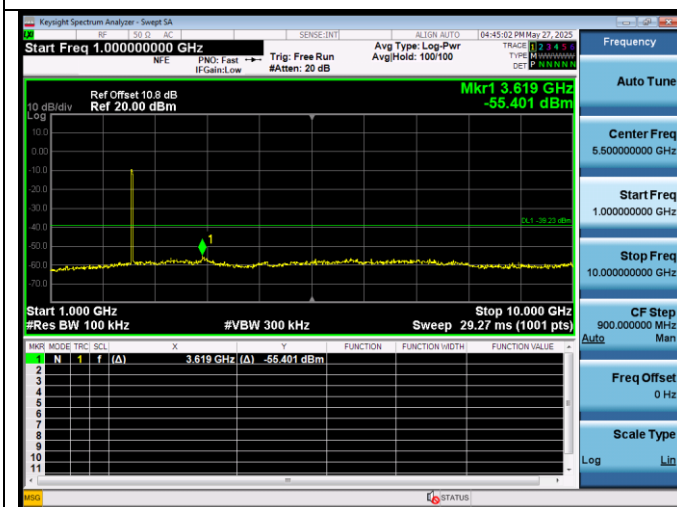
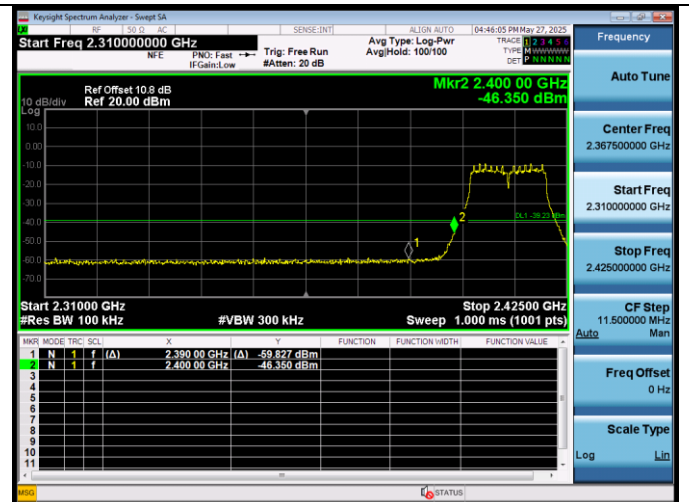
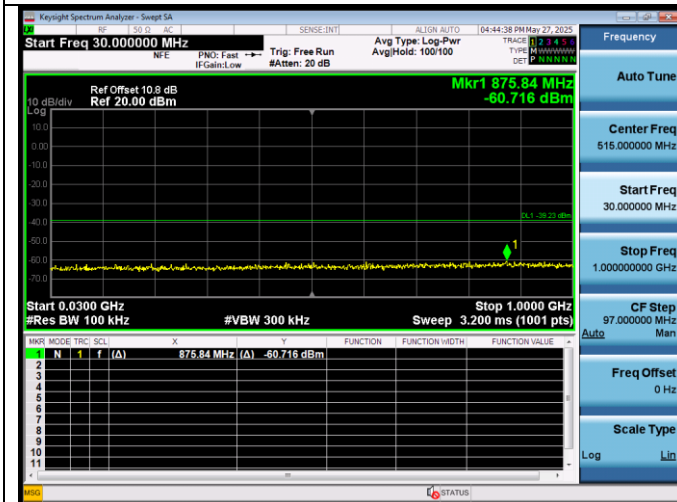
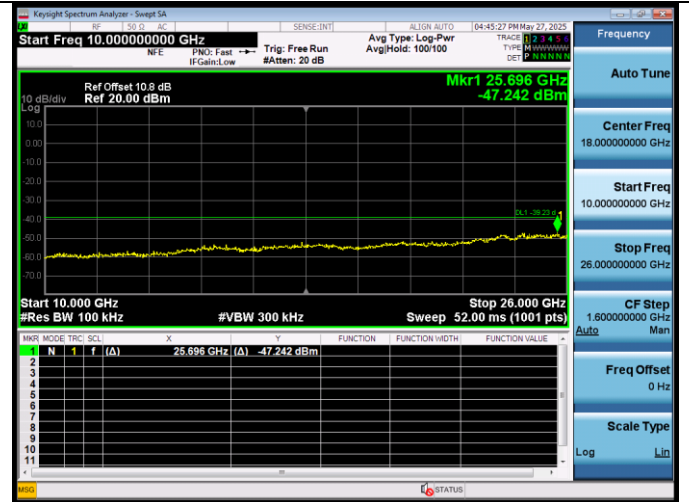
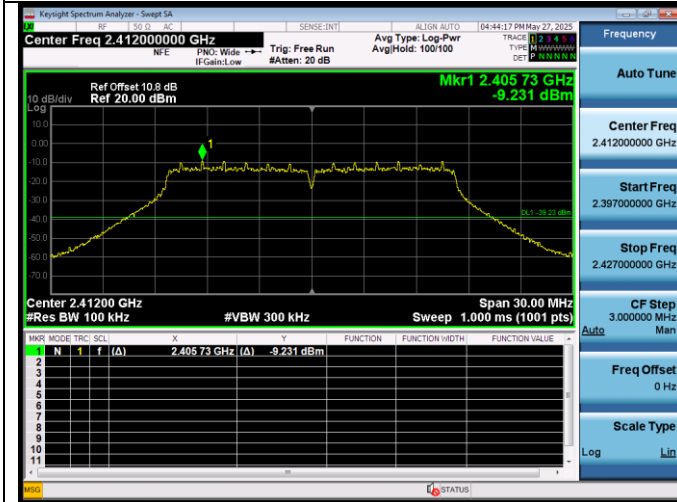
Test CH6: 2437MHz



Test CH11: 2462MHz



Test Mode: IEEE 802.11g
Test CH1: 2412MHz



Test CH6: 2437MHz

