FCC RADIO TEST REPORT

FCC ID	:	**CNFAMFR1**
Equipment	:	**Camera**
Brand Name	:	**GoPro**
Model Name	:	**AMLF1**
Applicant	:	**GoPro, Inc.** **3025 Clearview Way San Mateo, CA 94402 United States of America**
Manufacturer	:	**GoPro, Inc.** **3025 Clearview Way San Mateo, CA 94402 United States of America**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on May 22, 2025 and testing was performed from May 28, 2025 to Jul. 19, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR551331D	01	Initial issue of report	Jul. 01, 2025
FR551331D	02	Add Antenna 2 test data This report is an updated version, replacing the report issued on Jul. 01, 2025.	Jul. 31, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.403	26dB Bandwidth	Pass	See Note
-	2.1049	99% Occupied Bandwidth	Pass	See Note
3.1	15.407(a)	Maximum Conducted Output Power	Pass	-
-	15.407(a)	Power Spectral Density	Pass	See Note
3.2	15.407(b)	Unwanted Emissions	Pass	-
3.3	15.207	AC Conducted Emission	Pass	-
3.4	15.203	Antenna Requirement	Pass	-

Note: This is a variant report which can be referred Product Equality Declaration. All the test cases were performed on original report which can be referred to Sporton Report Number FR3D2932D. Based on the original report, the test cases were verified.

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Lewis Ho

Report Producer: Clio Lo

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n and Wi-Fi 5GHz 802.11a/n/ac. **Antenna Type** WLAN: FPC Loop Antenna

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	<Ant. 1>: 1.33 <Ant. 2>: 0.44
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	<Ant. 1>: 0.83 <Ant. 2>: 0.30
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	<Ant. 1>: 0.56 <Ant. 2>: 0.50

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, CO07-HY, 03CH22-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Note:

1. The above Frequency and Channel with "*" are 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel with "#" are 802.11ac VHT80.

2.2 Test Mode

The final test modes include the worst data rates for each modulation shown in the table below.

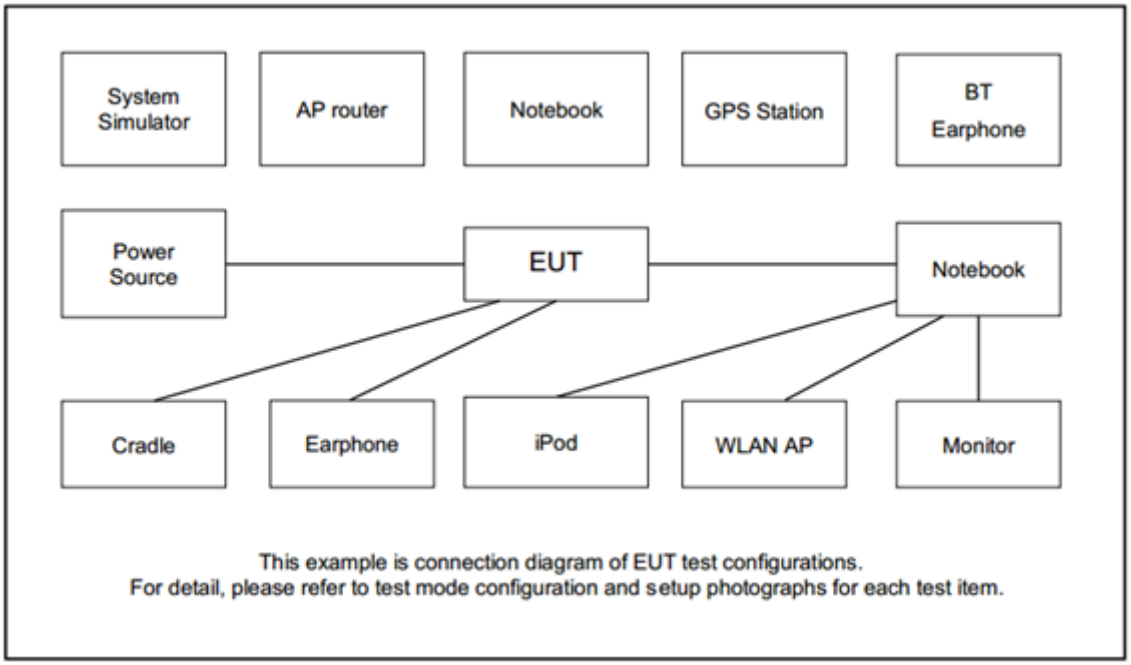
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN TX + USB Cable + Adapter

Remark:

1. For Radiated Test Cases, the tests were performed with USB cable option 1 (C-A).
2. The detailed Radiated test modes are shown in Appendix C.
3. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Adapter	ASUS	PA-1100-01	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “Tera Team Version 4.95” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

■ For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For the 5.25–5.725 GHz bands:

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

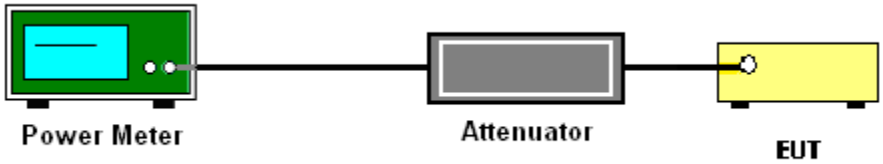
3.1.3 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.2 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.2.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of –27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

(2) Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

(3) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of −27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

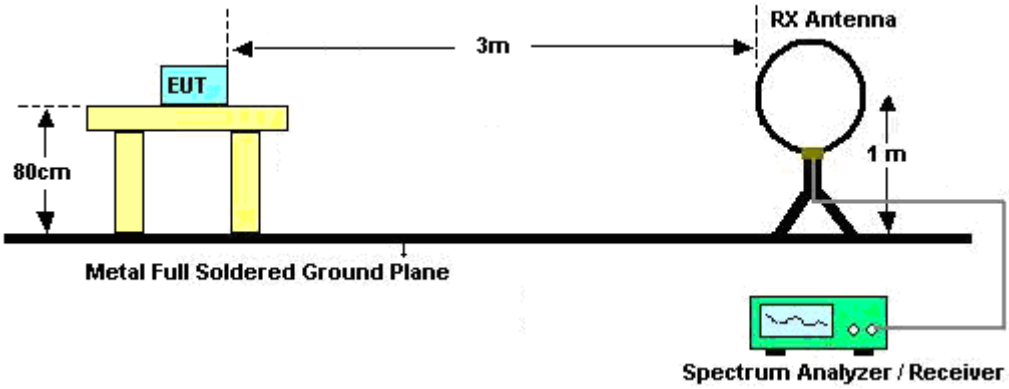
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

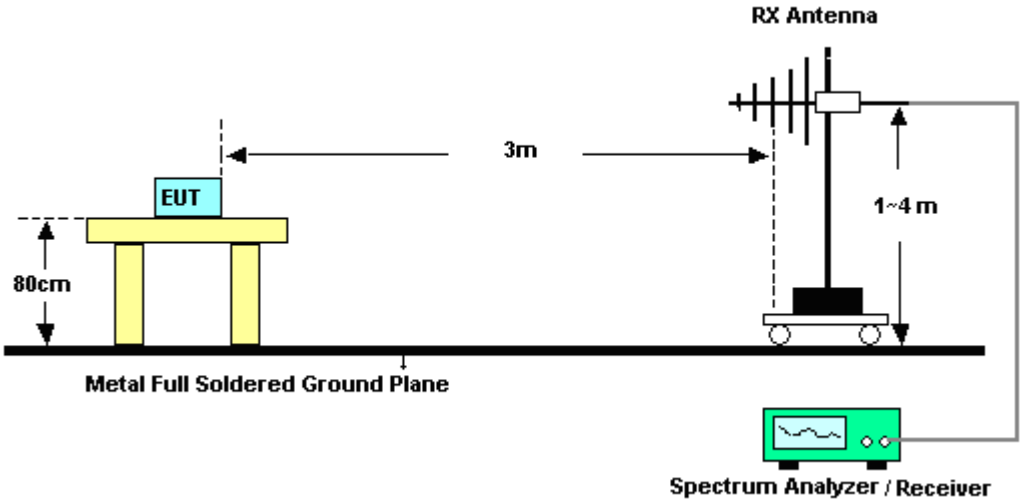
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

3.2.4 Test Setup

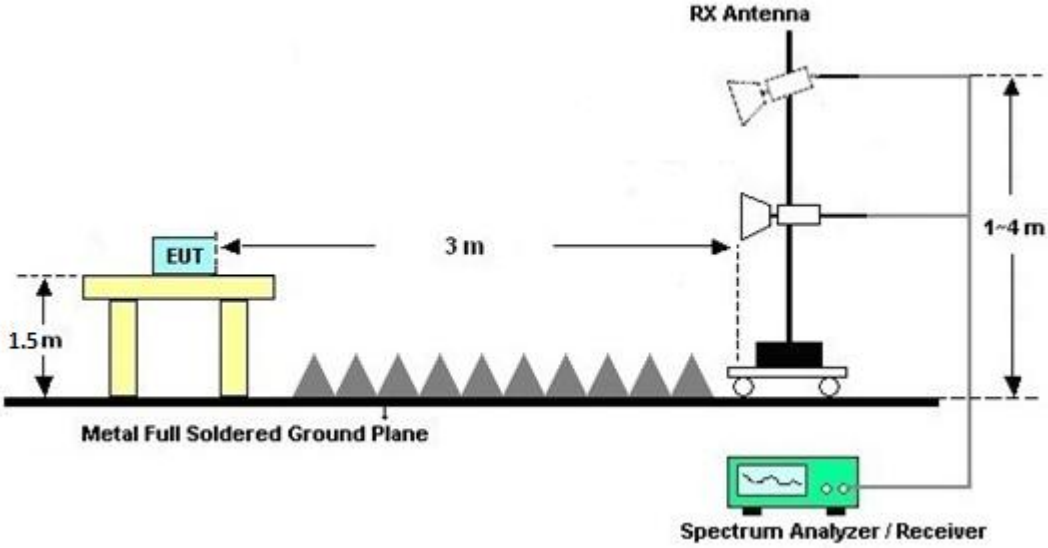
For radiated emissions below 30MHz



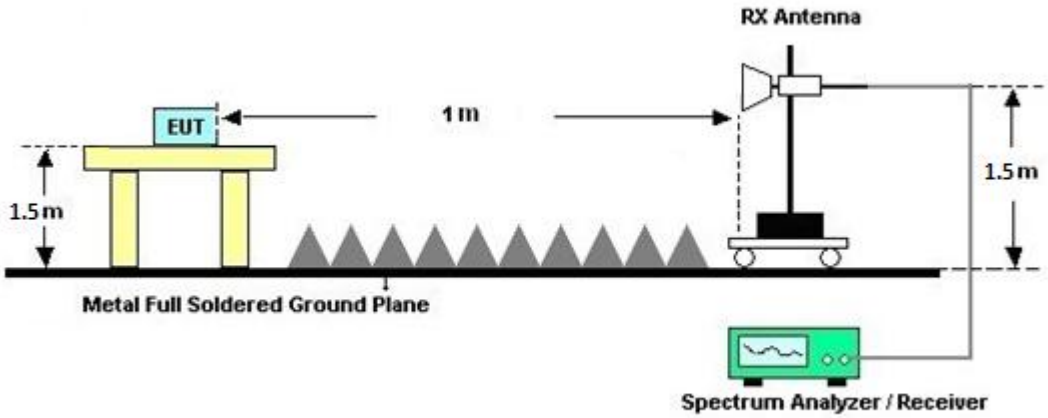
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.2.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.2.7 Duty Cycle

Please refer to Appendix D.

3.2.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.3 AC Conducted Emission Measurement

3.3.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

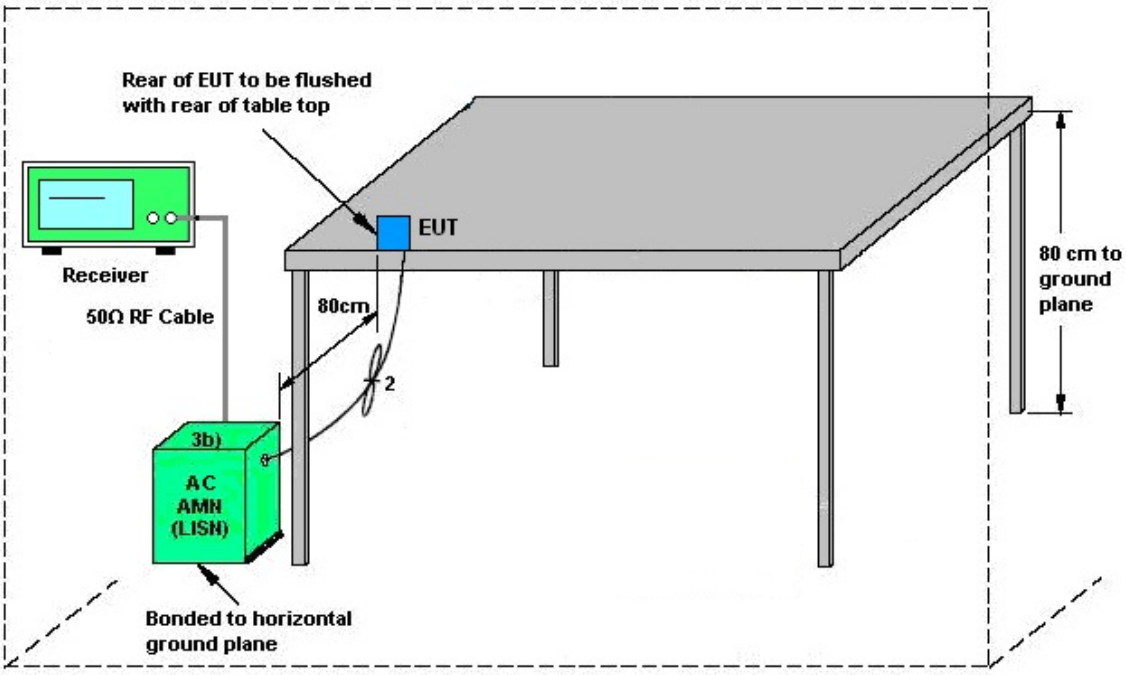
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.3.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.4 Antenna Requirements

3.4.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.4.2 Antenna Anti-Replacement Construction

Antenna permanently attached.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9kHz~30MHz	Aug. 29, 2024	May 28, 2025~ Jun. 02, 2025	Aug. 28, 2025	Radiation (03CH22-HY)
Bilog Antenna with 6dB	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63304 & 002	30MHz~1GHz	Dec. 17, 2024	May 28, 2025~ Jun. 02, 2025	Dec. 16, 2025	Radiation (03CH22-HY)
Amplifier	SONOMA	310N	421581	N/A	Jul. 14, 2024	May 28, 2025~ Jun. 02, 2025	Jul. 13, 2025	Radiation (03CH22-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C04A18EN	1GHz~18GHz	May 20, 2025	May 28, 2025~ Jul. 19, 2025	May 19, 2026	Radiation (03CH22-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz-40GHz	Jun. 24, 2024	May 28, 2025~ Jun. 02, 2025	Jun. 23, 2025	Radiation (03CH22-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 27, 2024	May 28, 2025~ Jul. 19, 2025	Sep. 26, 2025	Radiation (03CH22-HY)
Preamplifier	EMEC	EM18G40G	060872	18-40GHz	Nov. 29, 2024	May 28, 2025~ Jun. 02, 2025	Nov. 28, 2025	Radiation (03CH22-HY)
Signal Analyzer	Keysight	N9010B	MY62170278	10Hz~44GHz	Sep. 24, 2024	May 28, 2025~ Jul. 19, 2025	Sep. 23, 2025	Radiation (03CH22-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Nov. 22, 2024	May 28, 2025~ Jun. 02, 2025	Nov. 21, 2025	Radiation (03CH22-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY53290053	3Hz~26.5GHz	Sep. 09, 2024	Jul. 18, 2025 ~ Jul. 19, 2025	Sep. 08, 2025	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP211469	N/A	Dec. 24, 2024	May 28, 2025~ Jul. 19, 2025	Dec. 23, 2025	Radiation (03CH22-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	May 28, 2025~ Jul. 19, 2025	N/A	Radiation (03CH22-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	May 28, 2025~ Jul. 19, 2025	N/A	Radiation (03CH22-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	May 28, 2025~ Jul. 19, 2025	N/A	Radiation (03CH22-HY)
Software	Audix	E3	RK-002347	N/A	N/A	May 28, 2025~ Jul. 19, 2025	N/A	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	May 28, 2025~ Jun. 02, 2025	Mar. 04, 2026	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804390/2,804611/2,804615/2	N/A	Oct. 23, 2024	May 28, 2025~ Jun. 02, 2025	Oct. 22, 2025	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER/EMCI	SUCOFLEX 102/EMCI01Y-KM-KM-500/EMCI01Y-KM-KM-9000	804611/2,240914, 25043351,25043350	30MHz~40GHz	May 19, 2025	May 28, 2025~ Jul. 19, 2025	May 18, 2026	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Jun. 02, 2025	Oct. 30, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Jun. 02, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	Jun. 02, 2025	Aug. 22, 2025	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Dec. 23, 2024	Jun. 02, 2025	Dec. 22, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Jan. 14, 2025	Jun. 02, 2025	Jan. 13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Jun. 02, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Jun. 02, 2025	N/A	Conducted (TH05-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Jun. 19, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 19, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 23, 2024	Jun. 19, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 03, 2025	Jun. 19, 2025	Mar. 02, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Jun. 19, 2025	Mar. 23, 2026	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 26, 2025	Jun. 19, 2025	Mar. 25, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Jun. 19, 2025	Sep. 22, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI7	100724	9kHz~7GHz	Feb. 13, 2025	Jun. 19, 2025	Feb. 12, 2026	Conduction (CO07-HY)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.7 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.60 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.20 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.00 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.70 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Joseph Hu	Temperature:	21~25	°C
Test Date:	2025/6/2	Relative Humidity:	51~54	%

Report Number : FR551331D

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 single antenna													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	15.45	-	-	24.00	-	1.33	-	-	Pass
11a	6Mbps	1	44	5220	15.47	-		24.00	-	1.33	-		Pass
11a	6Mbps	1	48	5240	15.05	-		24.00	-	1.33	-		Pass
HT20	MCS0	1	36	5180	15.00	-		24.00	-	1.33	-		Pass
HT20	MCS0	1	44	5220	14.87	-		24.00	-	1.33	-		Pass
HT20	MCS0	1	48	5240	14.80	-		24.00	-	1.33	-		Pass
HT40	MCS0	1	38	5190	11.55	-		24.00	-	1.33	-		Pass
HT40	MCS0	1	46	5230	13.58	-		24.00	-	1.33	-		Pass
VHT20	MCS0	1	36	5180	14.90	-		24.00	-	1.33	-		Pass
VHT20	MCS0	1	44	5220	14.77	-		24.00	-	1.33	-		Pass
VHT20	MCS0	1	48	5240	14.70	-		24.00	-	1.33	-		Pass
VHT40	MCS0	1	38	5190	11.45	-		24.00	-	1.33	-		Pass
VHT40	MCS0	1	46	5230	13.48	-		24.00	-	1.33	-		Pass
VHT80	MCS0	1	42	5210	10.78	-		24.00	-	1.33	-		Pass

Report Number : FR551331D

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A single antenna													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	14.70	-	-	23.98	-	0.83	-	26.99	Pass
11a	6Mbps	1	60	5300	15.29	-		23.98	-	0.83	-	26.99	Pass
11a	6Mbps	1	64	5320	14.62	-		23.98	-	0.83	-	26.99	Pass
HT20	MCS0	1	52	5260	15.00	-		23.98	-	0.83	-	26.99	Pass
HT20	MCS0	1	60	5300	14.70	-		23.98	-	0.83	-	26.99	Pass
HT20	MCS0	1	64	5320	14.92	-		23.98	-	0.83	-	26.99	Pass
HT40	MCS0	1	54	5270	13.85	-		23.98	-	0.83	-	26.99	Pass
HT40	MCS0	1	62	5310	13.63	-		23.98	-	0.83	-	26.99	Pass
VHT20	MCS0	1	52	5260	14.90	-		23.98	-	0.83	-	26.99	Pass
VHT20	MCS0	1	60	5300	14.60	-		23.98	-	0.83	-	26.99	Pass
VHT20	MCS0	1	64	5320	14.82	-		23.98	-	0.83	-	26.99	Pass
VHT40	MCS0	1	54	5270	13.75	-		23.98	-	0.83	-	26.99	Pass
VHT40	MCS0	1	62	5310	13.53	-		23.98	-	0.83	-	26.99	Pass
VHT80	MCS0	1	58	5290	12.22	-		23.98	-	0.83	-	26.99	Pass

Report Number : FR551331D

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C single antenna													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	14.14	-	-	23.98	-	0.56	-	26.99	Pass
11a	6Mbps	1	116	5580	15.06	-		23.98	-	0.56	-	26.99	Pass
11a	6Mbps	1	140	5700	14.37	-		23.98	-	0.56	-	26.99	Pass
HT20	MCS0	1	100	5500	14.14	-		23.98	-	0.56	-	26.99	Pass
HT20	MCS0	1	116	5580	14.94	-		23.98	-	0.56	-	26.99	Pass
HT20	MCS0	1	140	5700	14.39	-		23.98	-	0.56	-	26.99	Pass
HT40	MCS0	1	102	5510	13.88	-		23.98	-	0.56	-	26.99	Pass
HT40	MCS0	1	110	5550	13.70	-		23.98	-	0.56	-	26.99	Pass
HT40	MCS0	1	134	5670	13.59	-		23.98	-	0.56	-	26.99	Pass
VHT20	MCS0	1	100	5500	14.04	-		23.98	-	0.56	-	26.99	Pass
VHT20	MCS0	1	116	5580	14.84	-		23.98	-	0.56	-	26.99	Pass
VHT20	MCS0	1	140	5700	14.29	-		23.98	-	0.56	-	26.99	Pass
VHT40	MCS0	1	102	5510	13.78	-		23.98	-	0.56	-	26.99	Pass
VHT40	MCS0	1	110	5550	13.60	-		23.98	-	0.56	-	26.99	Pass
VHT40	MCS0	1	134	5670	13.49	-		23.98	-	0.56	-	26.99	Pass
VHT80	MCS0	1	106	5530	12.49	-		23.98	-	0.56	-	26.99	Pass

Report Number : FR551331D

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 single antenna													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 2	Ant 1	SUM	Ant 2	Ant 1	Ant 2	Ant 1		
11a	6Mbps	1	36	5180	15.45	-	-	24.00	-	0.44	-	-	Pass
11a	6Mbps	1	44	5220	15.47	-		24.00	-	0.44	-		Pass
11a	6Mbps	1	48	5240	15.05	-		24.00	-	0.44	-		Pass
HT20	MCS0	1	36	5180	15.00	-		24.00	-	0.44	-		Pass
HT20	MCS0	1	44	5220	14.87	-		24.00	-	0.44	-		Pass
HT20	MCS0	1	48	5240	14.80	-		24.00	-	0.44	-		Pass
HT40	MCS0	1	38	5190	11.55	-		24.00	-	0.44	-		Pass
HT40	MCS0	1	46	5230	13.58	-		24.00	-	0.44	-		Pass
VHT20	MCS0	1	36	5180	14.90	-		24.00	-	0.44	-		Pass
VHT20	MCS0	1	44	5220	14.77	-		24.00	-	0.44	-		Pass
VHT20	MCS0	1	48	5240	14.70	-		24.00	-	0.44	-		Pass
VHT40	MCS0	1	38	5190	11.45	-		24.00	-	0.44	-		Pass
VHT40	MCS0	1	46	5230	13.48	-		24.00	-	0.44	-		Pass
VHT80	MCS0	1	42	5210	10.78	-		24.00	-	0.44	-		Pass

Report Number : FR551331D

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A single antenna													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 2	Ant 1	SUM	Ant 2	Ant 1	Ant 2	Ant 1		
11a	6Mbps	1	52	5260	14.70	-	-	23.98	-	0.30	-	26.99	Pass
11a	6Mbps	1	60	5300	15.29	-		23.98	-	0.30	-	26.99	Pass
11a	6Mbps	1	64	5320	14.62	-		23.98	-	0.30	-	26.99	Pass
HT20	MCS0	1	52	5260	15.00	-		23.98	-	0.30	-	26.99	Pass
HT20	MCS0	1	60	5300	14.70	-		23.98	-	0.30	-	26.99	Pass
HT20	MCS0	1	64	5320	14.92	-		23.98	-	0.30	-	26.99	Pass
HT40	MCS0	1	54	5270	13.85	-		23.98	-	0.30	-	26.99	Pass
HT40	MCS0	1	62	5310	13.63	-		23.98	-	0.30	-	26.99	Pass
VHT20	MCS0	1	52	5260	14.90	-		23.98	-	0.30	-	26.99	Pass
VHT20	MCS0	1	60	5300	14.60	-		23.98	-	0.30	-	26.99	Pass
VHT20	MCS0	1	64	5320	14.82	-		23.98	-	0.30	-	26.99	Pass
VHT40	MCS0	1	54	5270	13.75	-		23.98	-	0.30	-	26.99	Pass
VHT40	MCS0	1	62	5310	13.53	-		23.98	-	0.30	-	26.99	Pass
VHT80	MCS0	1	58	5290	12.22	-		23.98	-	0.30	-	26.99	Pass

Report Number : FR551331D

TEST RESULTS DATA
Average Power Table

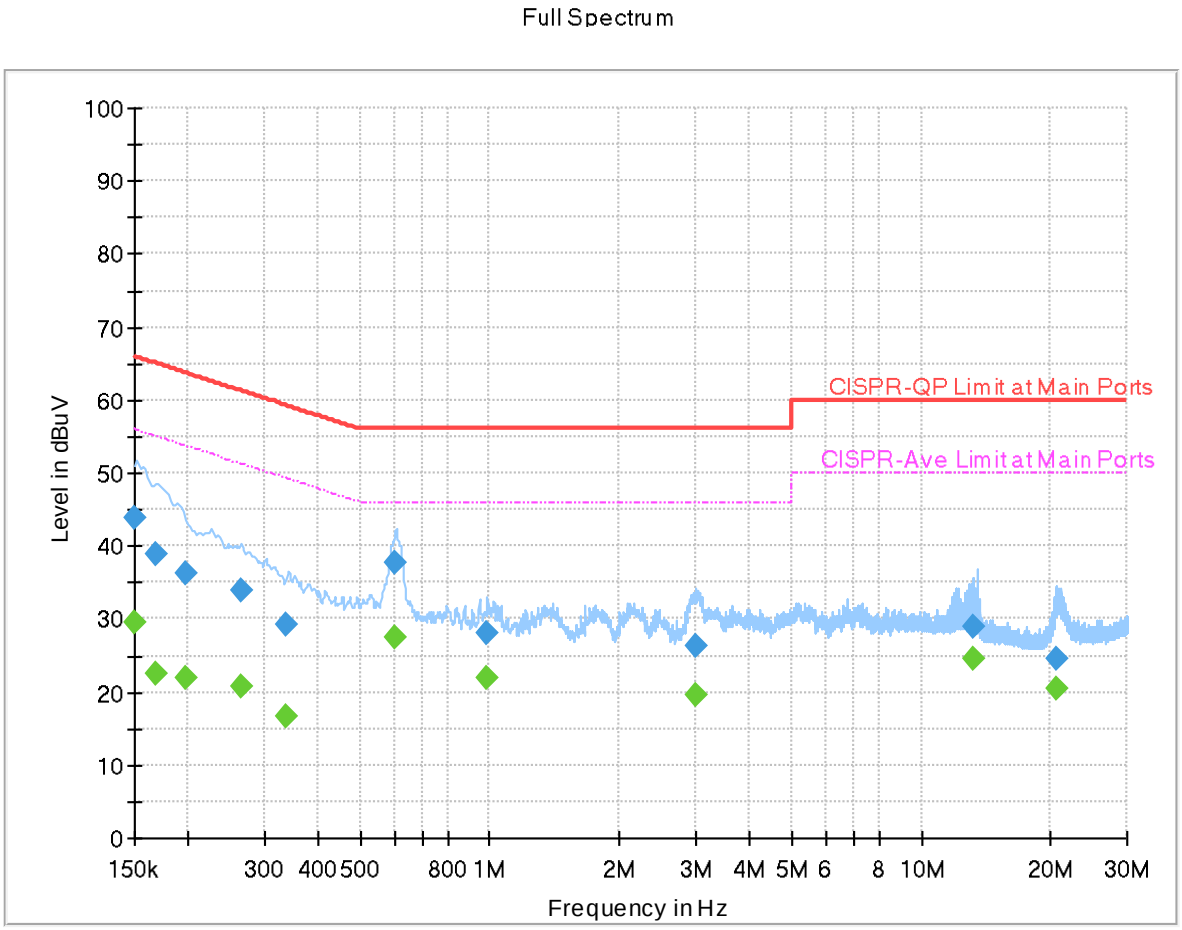
FCC U-NII-2C single antenna													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 2	Ant 1	SUM	Ant 2	Ant 1	Ant 2	Ant 1		
11a	6Mbps	1	100	5500	14.14	-	-	23.98	-	0.50	-	26.99	Pass
11a	6Mbps	1	116	5580	15.06	-		23.98	-	0.50	-	26.99	Pass
11a	6Mbps	1	140	5700	14.37	-		23.98	-	0.50	-	26.99	Pass
HT20	MCS0	1	100	5500	14.14	-		23.98	-	0.50	-	26.99	Pass
HT20	MCS0	1	116	5580	14.94	-		23.98	-	0.50	-	26.99	Pass
HT20	MCS0	1	140	5700	14.39	-		23.98	-	0.50	-	26.99	Pass
HT40	MCS0	1	102	5510	13.88	-		23.98	-	0.50	-	26.99	Pass
HT40	MCS0	1	110	5550	13.70	-		23.98	-	0.50	-	26.99	Pass
HT40	MCS0	1	134	5670	13.59	-		23.98	-	0.50	-	26.99	Pass
VHT20	MCS0	1	100	5500	14.04	-		23.98	-	0.50	-	26.99	Pass
VHT20	MCS0	1	116	5580	14.84	-		23.98	-	0.50	-	26.99	Pass
VHT20	MCS0	1	140	5700	14.29	-		23.98	-	0.50	-	26.99	Pass
VHT40	MCS0	1	102	5510	13.78	-		23.98	-	0.50	-	26.99	Pass
VHT40	MCS0	1	110	5550	13.60	-		23.98	-	0.50	-	26.99	Pass
VHT40	MCS0	1	134	5670	13.49	-		23.98	-	0.50	-	26.99	Pass
VHT80	MCS0	1	106	5530	12.49	-		23.98	-	0.50	-	26.99	Pass

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	**Temperature :**	22.9~25.3℃
		Relative Humidity :	44.1~52%

EUT Information

Report NO :	551331
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line



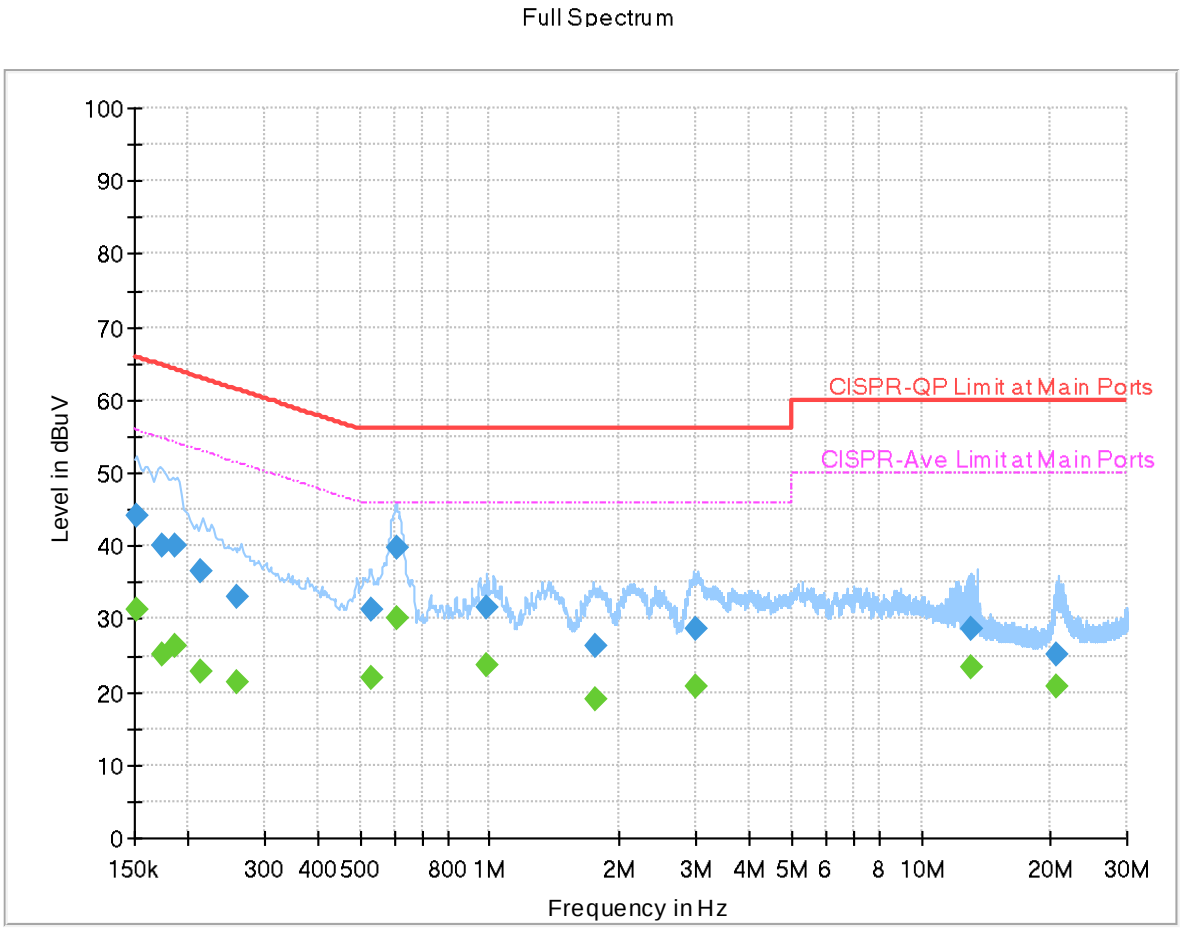
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.150000	---	29.40	56.00	26.60	L1	FLO	20.0
0.150000	43.96	---	66.00	22.04	L1	FLO	20.0
0.168090	---	22.56	55.05	32.49	L1	FLO	20.0
0.168090	38.95	---	65.05	26.10	L1	FLO	20.0
0.197250	---	21.79	53.73	31.94	L1	FLO	20.0
0.197250	36.27	---	63.73	27.46	L1	FLO	20.0
0.266190	---	20.78	51.24	30.46	L1	FLO	20.0
0.266190	33.99	---	61.24	27.25	L1	FLO	20.0
0.337740	---	16.80	49.26	32.46	L1	FLO	20.0
0.337740	29.12	---	59.26	30.14	L1	FLO	20.0
0.605040	---	27.55	46.00	18.45	L1	FLO	20.0
0.605040	37.84	---	56.00	18.16	L1	FLO	20.0
0.986550	---	21.84	46.00	24.16	L1	FLO	20.0
0.986550	28.14	---	56.00	27.86	L1	FLO	20.0
3.003000	---	19.61	46.00	26.39	L1	FLO	20.1
3.003000	26.20	---	56.00	29.80	L1	FLO	20.1
13.144830	---	24.43	50.00	25.57	L1	FLO	20.5
13.144830	29.07	---	60.00	30.93	L1	FLO	20.5
20.709960	---	20.50	50.00	29.50	L1	FLO	20.8

20.709960	**24.60**	**---**	**60.00**	**35.40**	**L1**	**FLO**	**20.8**

EUT Information

Report NO :	551331
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.151283	---	31.15	55.93	24.78	N	FLO	20.0
0.151283	44.10	---	65.93	21.83	N	FLO	20.0
0.173310	---	25.07	54.80	29.73	N	FLO	20.0
0.173310	40.17	---	64.80	24.63	N	FLO	20.0
0.185370	---	26.34	54.24	27.90	N	FLO	20.0
0.185370	39.93	---	64.24	24.31	N	FLO	20.0
0.213000	---	22.77	53.09	30.32	N	FLO	20.0
0.213000	36.53	---	63.09	26.56	N	FLO	20.0
0.260250	---	21.42	51.42	30.00	N	FLO	20.0
0.260250	32.95	---	61.42	28.47	N	FLO	20.0
0.528900	---	22.00	46.00	24.00	N	FLO	20.0
0.528900	31.37	---	56.00	24.63	N	FLO	20.0
0.611250	---	29.98	46.00	16.02	N	FLO	20.0
0.611250	39.67	---	56.00	16.33	N	FLO	20.0
0.984120	---	23.64	46.00	22.36	N	FLO	20.0
0.984120	31.48	---	56.00	24.52	N	FLO	20.0
1.763340	---	18.96	46.00	27.04	N	FLO	20.0
1.763340	26.35	---	56.00	29.65	N	FLO	20.0
2.991390	---	20.85	46.00	25.15	N	FLO	20.1

2.991390	**28.78**	**---**	**56.00**	**27.22**	**N**	**FLO**	**20.1**
13.040250	**---**	**23.49**	**50.00**	**26.51**	**N**	**FLO**	**20.5**
13.040250	**28.53**	**---**	**60.00**	**31.47**	**N**	**FLO**	**20.5**
20.510880	**---**	**20.70**	**50.00**	**29.30**	**N**	**FLO**	**20.9**
20.510880	**25.19**	**---**	**60.00**	**34.81**	**N**	**FLO**	**20.9**

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Ken Kuo and York Huang	**Temperature :**	19.9~24.5℃
		Relative Humidity :	53.6~63.5%

Note symbol

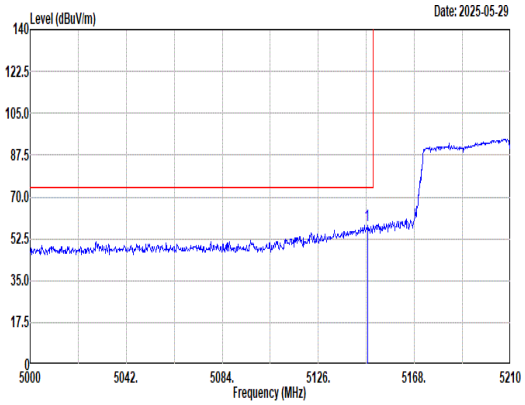
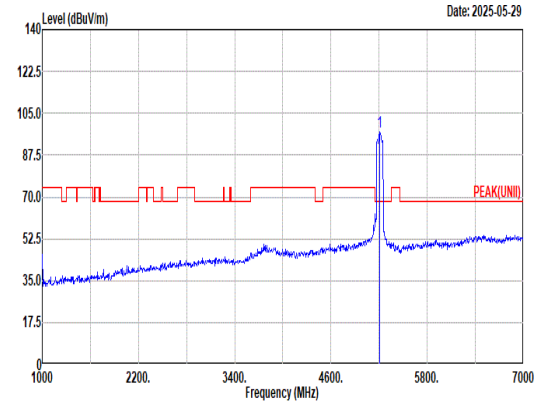
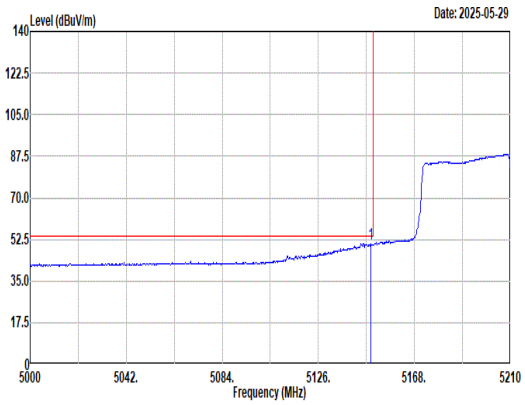
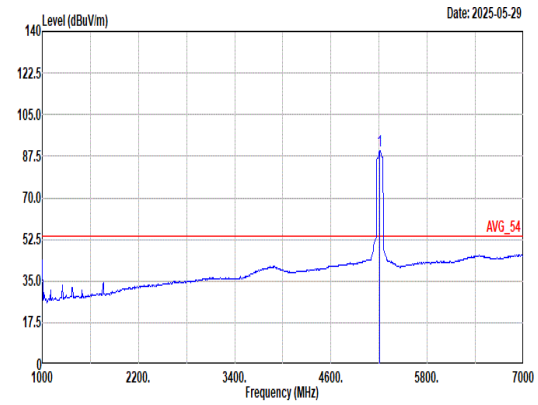
-L	**Low channel location**
-R	**High channel location**

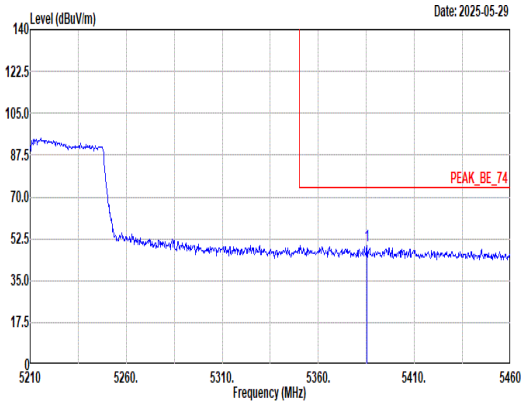
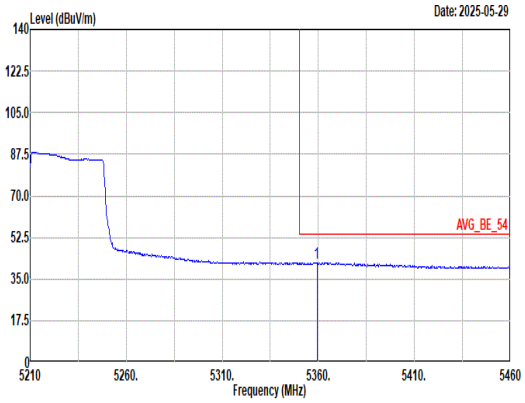
C1-1. Radiated Spurious Emission Test Modes

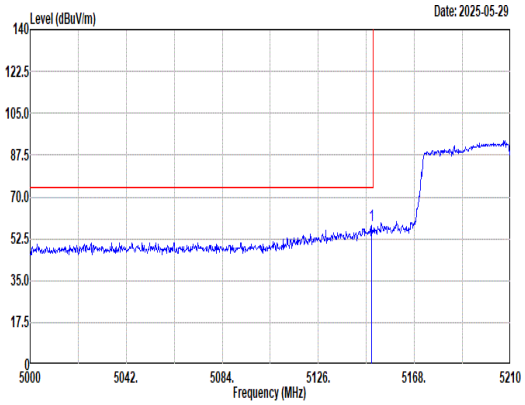
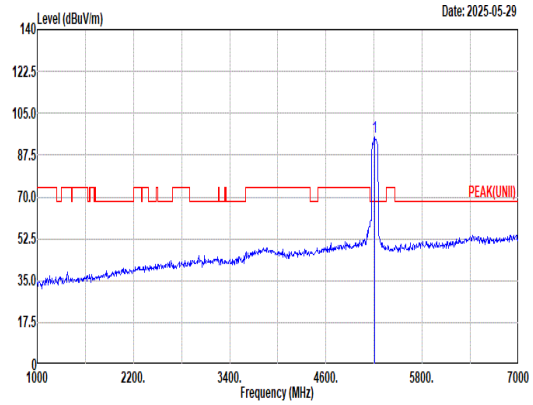
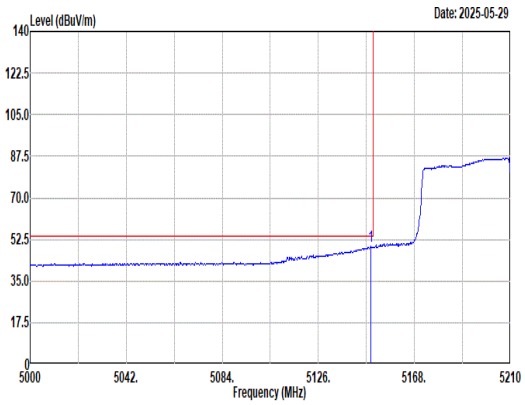
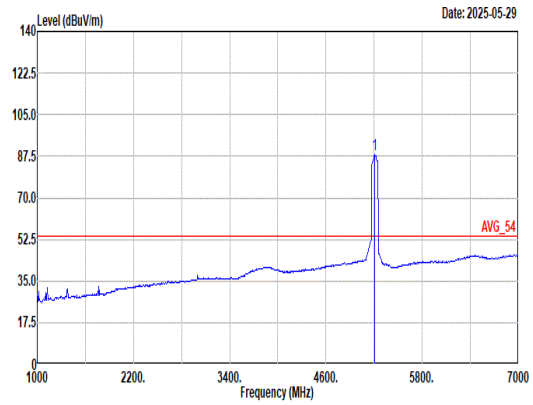
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	1	802.11ac VHT80	42	5210	MCS0	-	-
Mode 2	U-NII-2C	5.47-5.725	1	802.11a	140	5700	6Mbps	-	-
Mode 3	U-NII-1	5.15-5.25	1	802.11ac VHT80	42	5210	MCS0	-	LF
Mode 4	U-NII-1	5.15-5.25	1	802.11ac VHT80	42	5210	MCS0	-	SHF

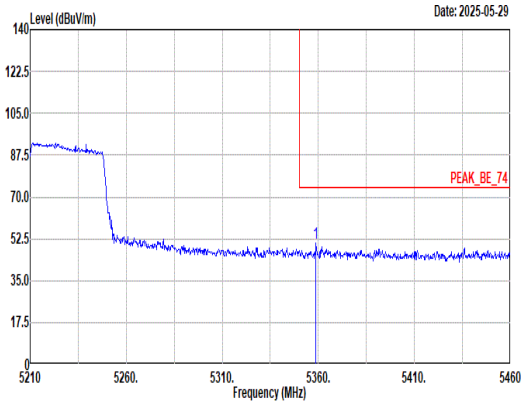
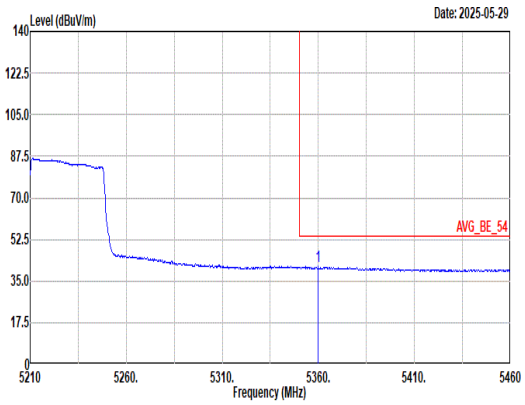
C1-2. Summary of each worse mode

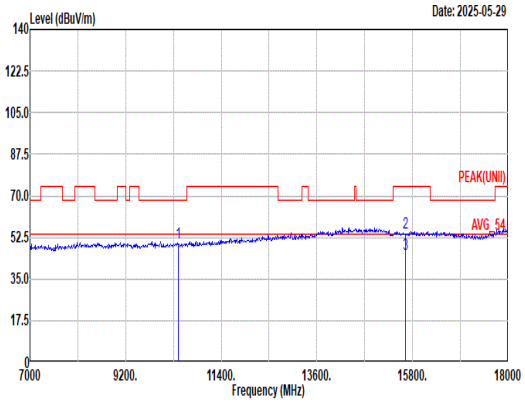
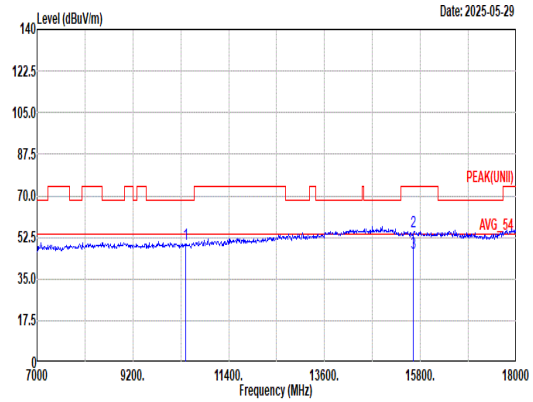
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11ac VHT80	42	5149.10	50.74	54.00	-3.26	H	Avg.	Pass	-	Band Edge
	802.11ac VHT80	42	15630.00	46.01	54.00	-7.99	V	Avg.	Pass	-	Harmonic
2	802.11a	140	5726.98	63.29	68.20	-4.91	V	Peak	Pass	-	Band Edge
	802.11a	140	11400.00	44.93	54.00	-9.07	H	Avg.	Pass	-	Harmonic
3	802.11ac VHT80	42	180.35	39.88	43.50	-3.62	H	QP	Pass	-	LF
4	802.11ac VHT80	42	39989.82	42.43	54.00	-11.57	H	Avg.	Pass	-	SHF

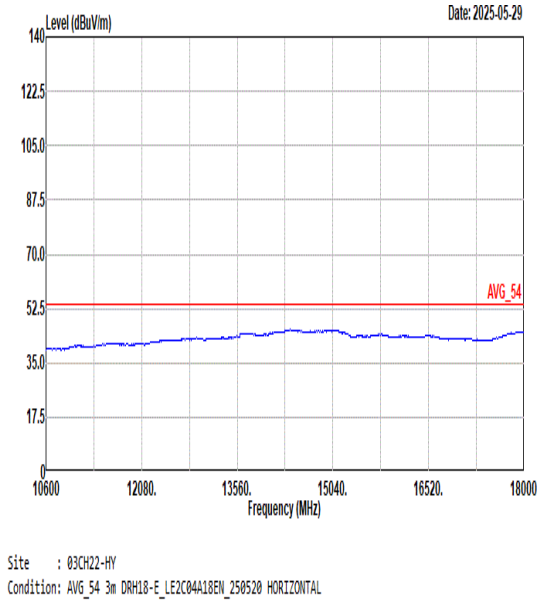
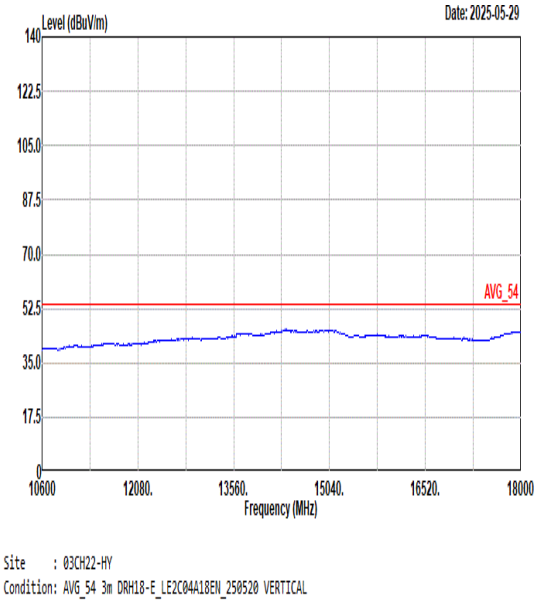
Mode	1	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5147.42 58.36 74.00 -15.64 47.12 32.58 11.88 34.04 0.82 100 39 Peak	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5210.00 97.14 ------ ------ 86.23 32.39 11.93 34.19 0.78 100 39 Peak
Avg	 Site : 03CH22-HY Condition: AVG_BE_54 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3.300kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5149.10 50.74 54.00 -3.26 39.50 32.59 11.88 34.05 0.82 100 39 Average	 Site : 03CH22-HY Condition: AVG_54 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3.300kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5210.00 89.93 ------ ------ 79.03 32.38 11.95 34.21 0.78 100 39 Average

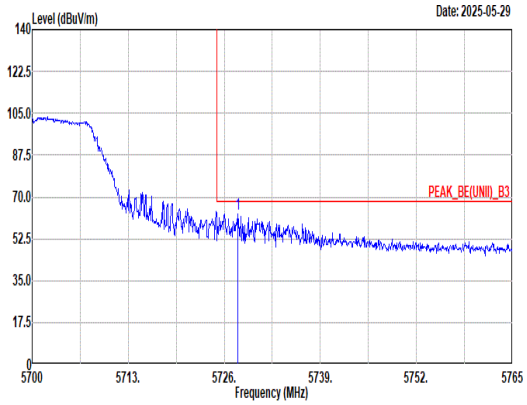
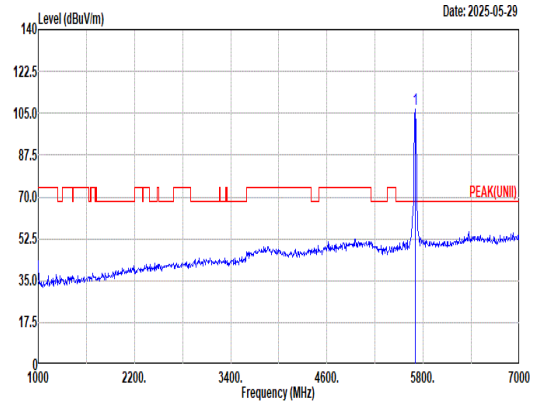
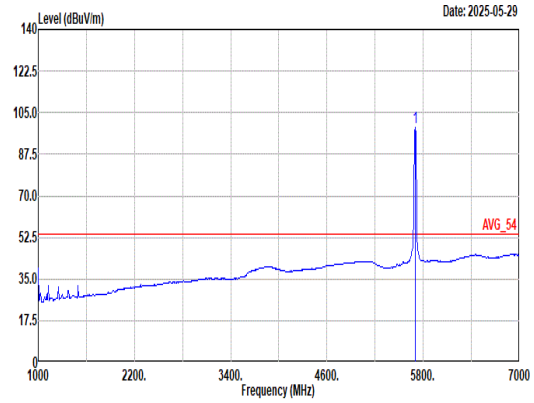
Mode	1	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5385.25 49.92 74.00 -24.08 39.17 32.30 12.36 34.65 0.74 100 39 Peak	Blank
Avg	 Site : 03CH22-HY Condition: AVG_BE_54 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3.300kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5359.25 41.94 54.00 -12.06 31.18 32.30 12.29 34.58 0.75 100 39 Average	Blank

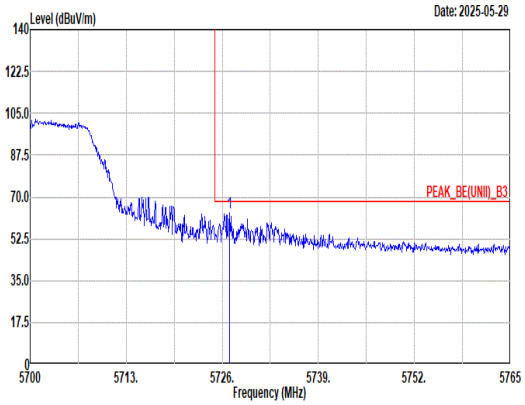
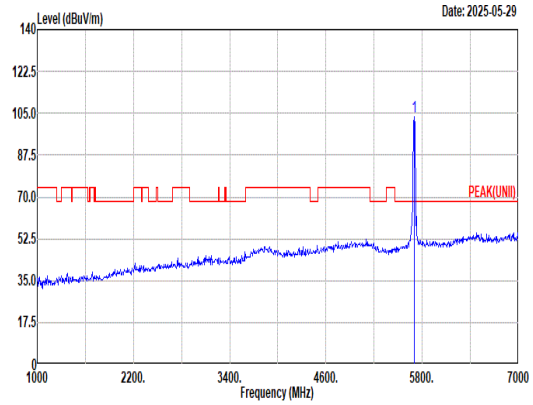
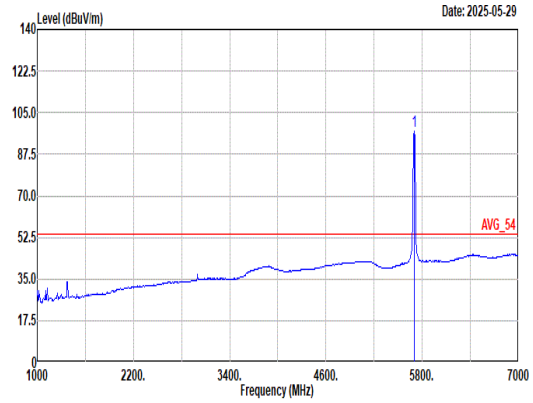
Mode	1	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5149.31 58.19 74.00 -15.81 46.94 32.60 11.88 34.05 0.82 100 135 Peak	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5210.00 95.10 ------ ------ 84.19 32.39 11.93 34.19 0.78 100 135 Peak
Avg	 Site : 03CH22-HY Condition: AVG_BE_54 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3.300kHz SWT:Auto 1 5148.89 49.60 54.00 -4.40 38.36 32.59 11.88 34.05 0.82 100 135 Average	 Site : 03CH22-HY Condition: AVG_54 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3.300kHz SWT:Auto 1 5210.00 88.06 ------ ------ 77.15 32.39 11.93 34.19 0.78 100 135 Average

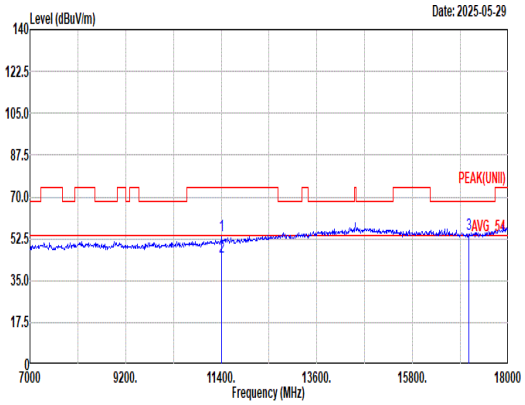
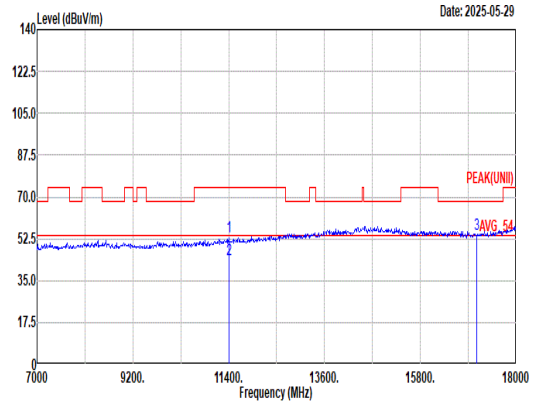
Mode	1	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5358.75 50.49 74.00 -23.51 39.73 32.30 12.29 34.58 0.75 100 135 Peak	Blank
Avg	 Site : 03CH22-HY Condition: AVG_BE_54 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3.300kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5360.00 41.06 54.00 -12.94 30.29 32.30 12.30 34.58 0.75 100 135 Average	Blank

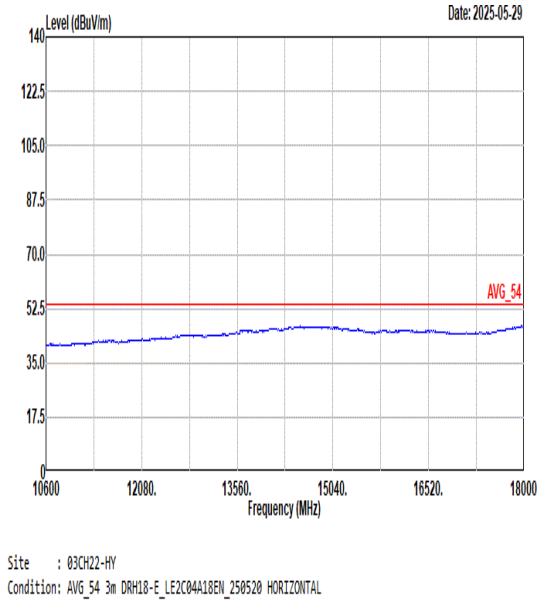
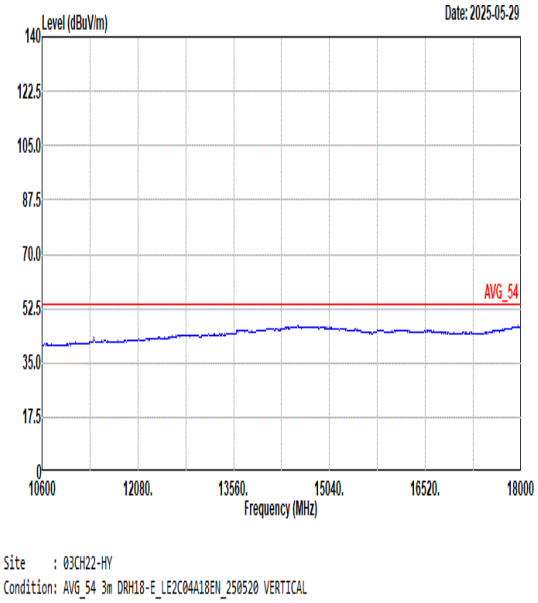
Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10420.00 49.97 68.20 -18.23 33.92 37.26 17.21 39.56 1.14 -- -- Peak 2 15630.00 54.56 74.00 -19.44 35.71 41.34 20.73 45.11 1.89 -- -- Peak 3 15630.00 45.54 54.00 -8.46 26.69 41.34 20.73 45.11 1.89 -- -- Average	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10420.00 49.80 68.20 -18.40 33.75 37.26 17.21 39.56 1.14 -- -- Peak 2 15630.00 55.05 74.00 -18.95 36.20 41.34 20.73 45.11 1.89 -- -- Peak 3 15630.00 46.01 54.00 -7.99 27.16 41.34 20.73 45.11 1.89 -- -- Average

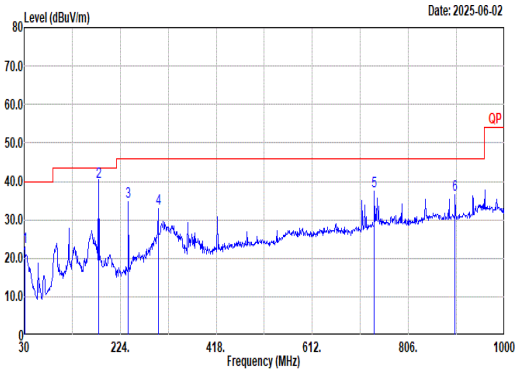
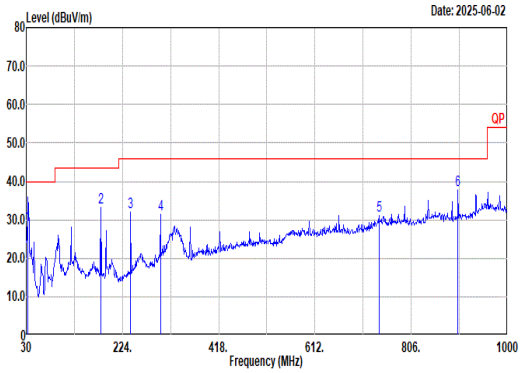
Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	1	
Pol.	Horizontal	Vertical
10.6G ~18G Avg		

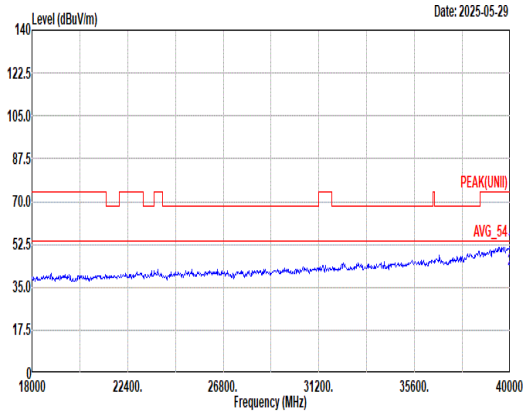
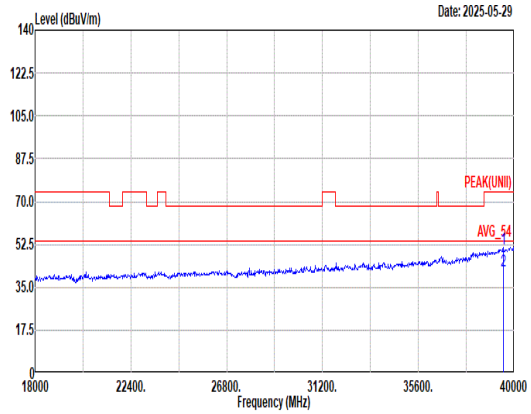
Mode	2	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition: PEAK_BE(UNII)_B3 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5727.82 63.05 68.20 -5.15 50.91 33.70 12.45 34.99 0.98 193 57 Peak	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5700.00 106.55 ------ ------ 94.48 33.68 12.44 34.98 0.93 193 57 Peak
Avg	Blank	 Site : 03CH22-HY Condition: AVG_54 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:0.750kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5700.00 98.82 ------ ------ 86.75 33.68 12.44 34.98 0.93 193 57 Average

Mode	2	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition: PEAK_BE(UNII)_B3 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5726.98 63.29 68.20 -4.91 51.15 33.70 12.45 34.99 0.98 101 283 Peak	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5700.00 103.70 ------ ------ 91.63 33.68 12.44 34.98 0.93 101 283 Peak
Avg	Blank	 Site : 03CH22-HY Condition: AVG_54 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:0.750kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5700.00 97.27 ------ ------ 85.20 33.68 12.44 34.98 0.93 101 283 Average

Mode	2	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11400.00 53.75 74.00 -20.25 36.35 38.80 17.81 40.43 1.22 100 297 Peak 2 11400.00 44.93 54.00 -9.07 27.53 38.80 17.81 40.43 1.22 100 297 Average 3 17100.00 54.22 68.20 -13.98 36.68 40.40 21.78 46.51 1.87 -- -- Peak	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11400.00 53.42 74.00 -20.58 36.02 38.80 17.81 40.43 1.22 107 296 Peak 2 11400.00 43.81 54.00 -10.19 26.41 38.80 17.81 40.43 1.22 107 296 Average 3 17100.00 54.46 68.20 -13.74 36.92 40.40 21.78 46.51 1.87 -- -- Peak

Mode	2	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	1	
Pol.	Horizontal	Vertical
10.6G ~18G Avg		

Mode	3	
	LF	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	1	
Pol.	Horizontal	Vertical
QP/ Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 HORIZONTAL 1 30.97 22.84 40.00 -17.16 30.17 24.43 0.86 32.67 0.05 -- -- Peak 2 180.35 39.88 43.50 -3.62 55.41 14.86 2.16 32.63 0.08 113 215 QP 3 240.49 34.71 46.00 -11.29 47.37 17.37 2.52 32.62 0.07 -- -- Peak 4 300.63 32.96 46.00 -13.04 43.26 19.39 2.86 32.62 0.07 -- -- Peak 5 737.13 37.46 46.00 -8.54 37.48 27.99 4.53 32.68 0.14 -- -- Peak 6 900.09 36.63 46.00 -9.37 34.18 29.20 4.94 31.85 0.16 -- -- Peak	 Site : 03CH22-HY Condition: QP 3m Bilog_63304_241217 VERTICAL 1 33.88 28.53 40.00 -11.47 37.12 23.12 0.90 32.66 0.05 100 244 QP 2 180.35 33.27 43.50 -10.23 48.80 14.86 2.16 32.63 0.08 -- -- Peak 3 240.49 32.03 46.00 -13.97 44.69 17.37 2.52 32.62 0.07 -- -- Peak 4 300.63 31.33 46.00 -14.67 41.63 19.39 2.86 32.62 0.07 -- -- Peak 5 741.01 31.21 46.00 -14.79 31.06 28.12 4.55 32.66 0.14 -- -- Peak 6 900.09 37.78 46.00 -8.22 35.33 29.20 4.94 31.85 0.16 -- -- Peak

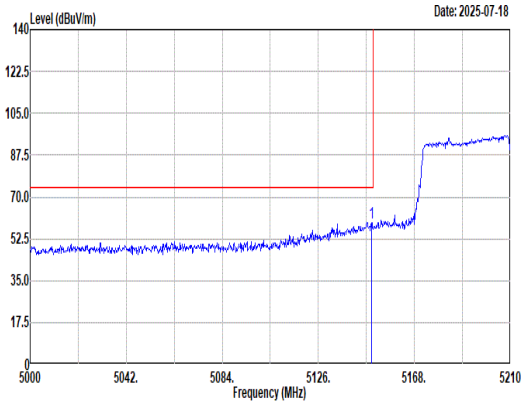
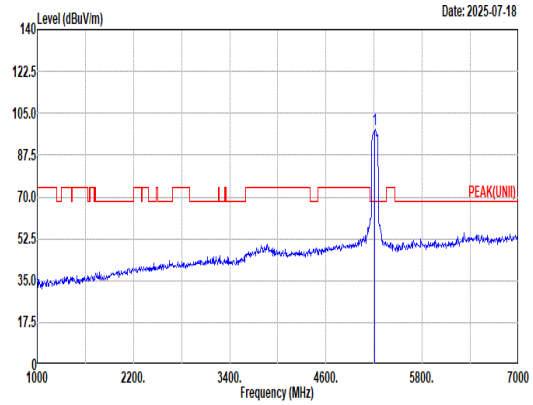
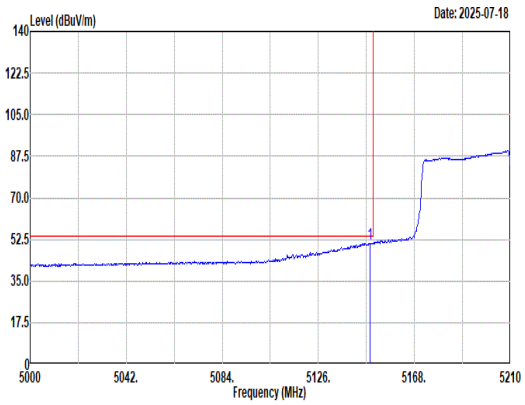
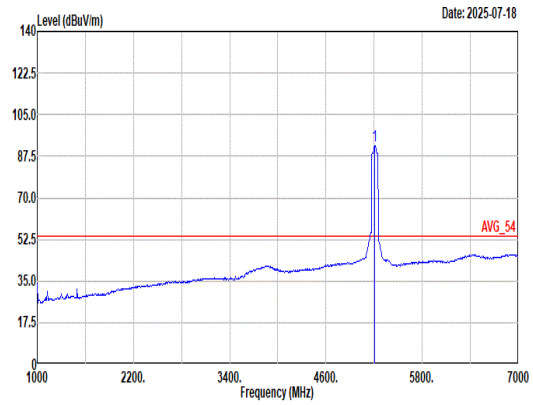
Mode	4	
	SHF	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH22-HY Condition: PEAK(UNII) 1m SHF_1223_240624 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 39989.82 51.36 74.00 -22.64 41.37 44.68 35.26 60.41 -9.54 -- -- PEAK 2 39989.82 42.43 54.00 -11.57 32.44 44.68 35.26 60.41 -9.54 -- -- Average	 Site : 03CH22-HY Condition: PEAK(UNII) 1m SHF_1223_240624 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 39508.79 50.54 74.00 -23.46 41.08 45.14 34.75 60.89 -9.54 -- -- PEAK 2 39508.79 41.52 54.00 -12.48 32.06 45.14 34.75 60.89 -9.54 -- -- Average

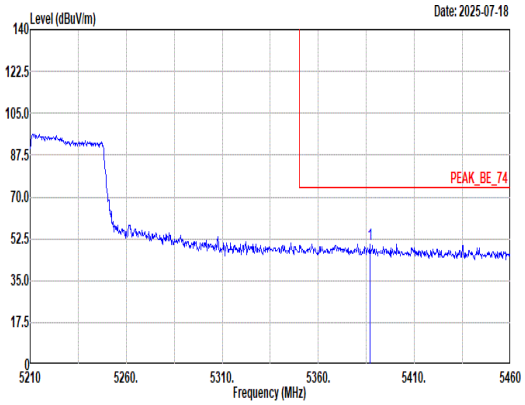
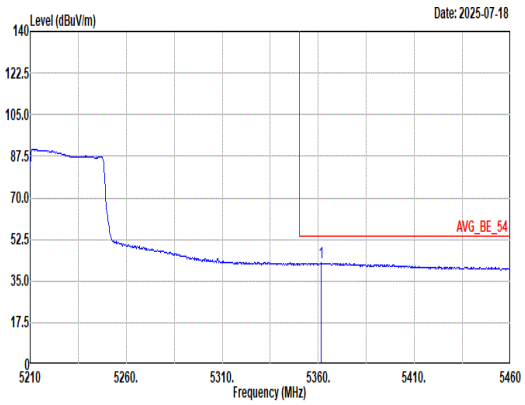
C2-1. Radiated Spurious Emission Test Modes

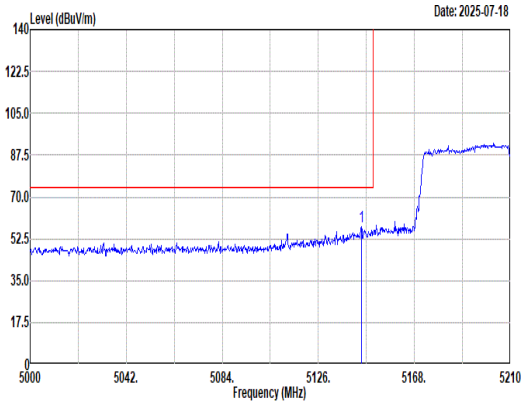
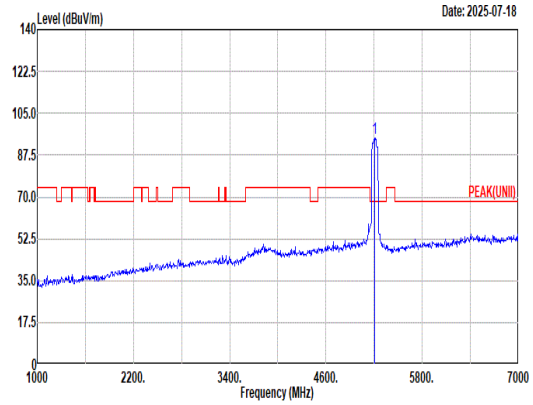
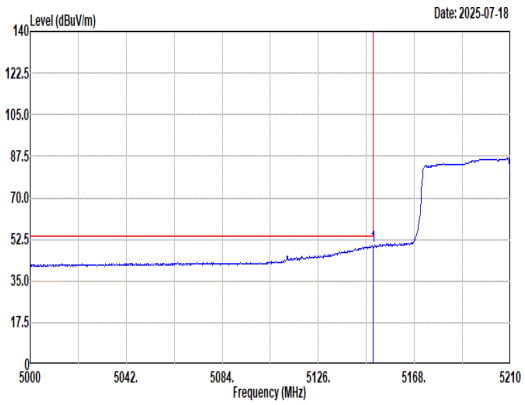
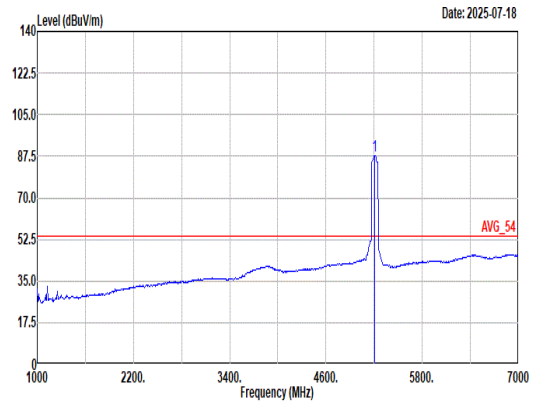
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	2	802.11ac VHT80	42	5210	MCS0	-	-
Mode 2	U-NII-2C	5.47-5.725	2	802.11a	140	5700	6Mbps	-	-

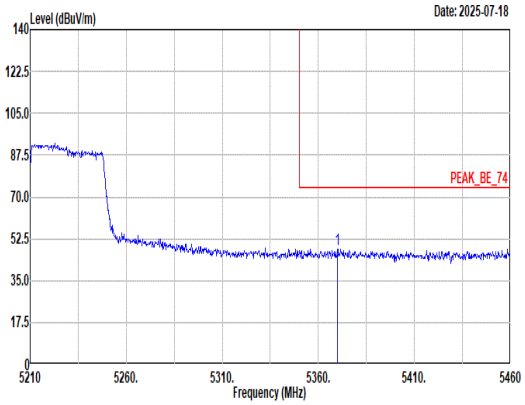
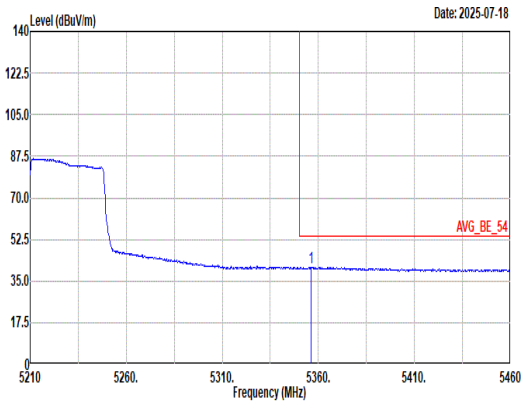
C2-2. Summary of each worse mode

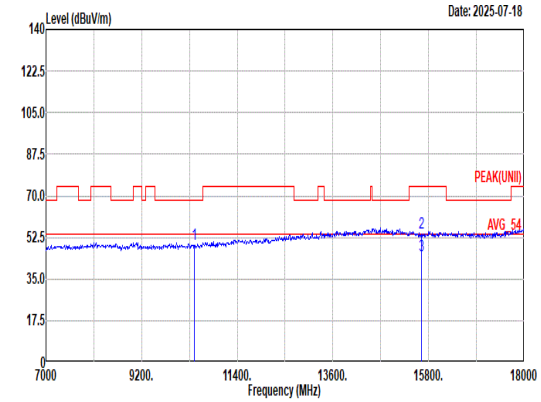
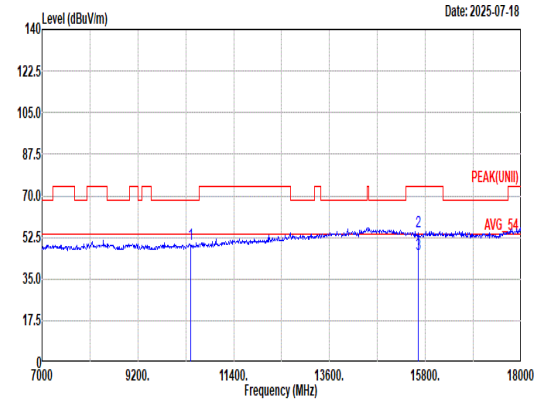
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11ac VHT80	42	5148.47	50.95	54.00	-3.05	H	Avg.	Pass	-	Band Edge
	802.11ac VHT80	42	15630.00	45.22	54.00	-8.78	V	Avg.	Pass	-	Harmonic
2	802.11a	140	5726.85	63.96	68.20	-4.24	H	Peak	Pass	-	Band Edge
	802.11a	140	11400.00	42.49	54.00	-11.51	V	Avg.	Pass	-	Harmonic

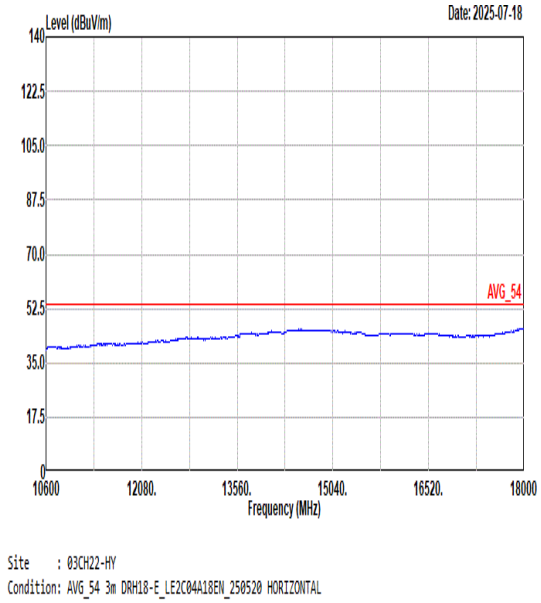
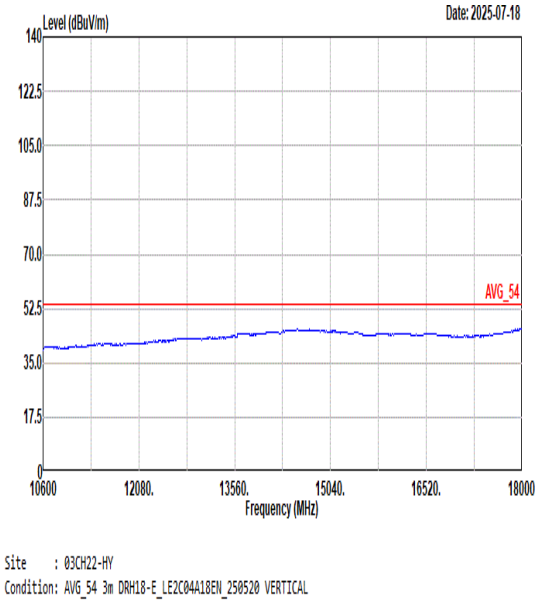
Mode	1	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5149.31 59.17 74.00 -14.83 47.92 32.60 11.88 34.05 0.82 100 54 Peak	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5210.00 98.35 ------ ------ 87.45 32.38 11.95 34.21 0.78 100 54 Peak
Avg	 Site : 03CH22-HY Condition: AVG_BE_54 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3.300kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5148.47 50.95 54.00 -3.05 39.71 32.59 11.88 34.05 0.82 100 54 Average	 Site : 03CH22-HY Condition: AVG_54 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3.300kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5210.00 91.87 ------ ------ 80.96 32.39 11.93 34.19 0.78 100 54 Average

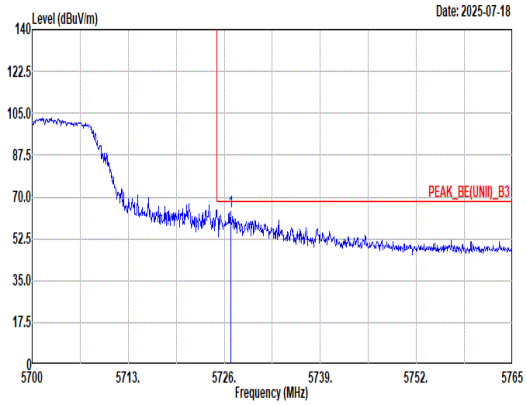
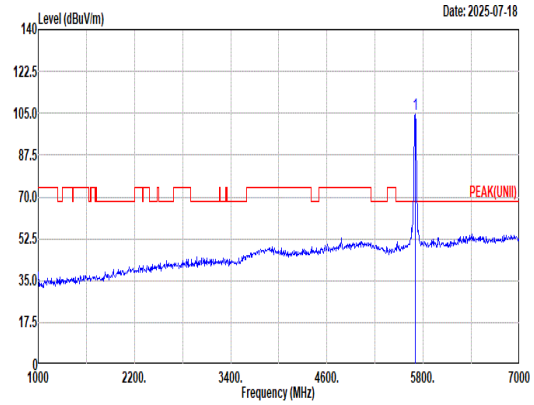
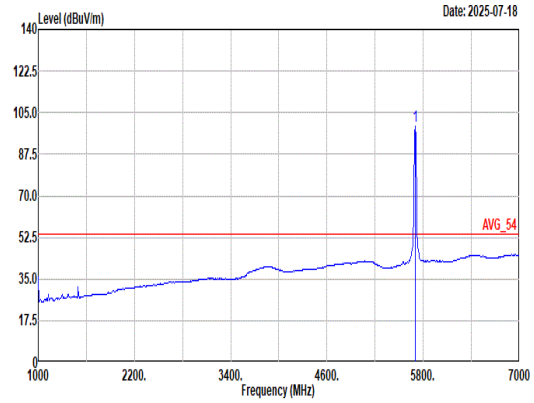
Mode	1	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5386.75 50.20 74.00 -23.80 39.45 32.30 12.36 34.65 0.74 100 54 Peak	Blank
Avg	 Site : 03CH22-HY Condition: AVG_BE_54 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3.300kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5361.50 42.57 54.00 -11.43 31.81 32.30 12.30 34.59 0.75 100 54 Average	Blank

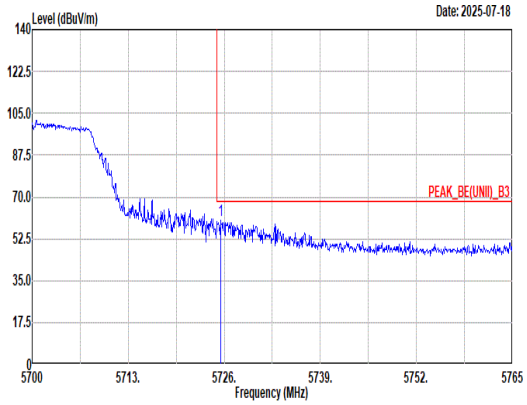
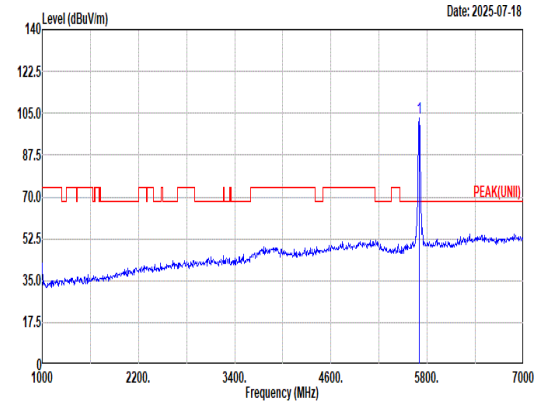
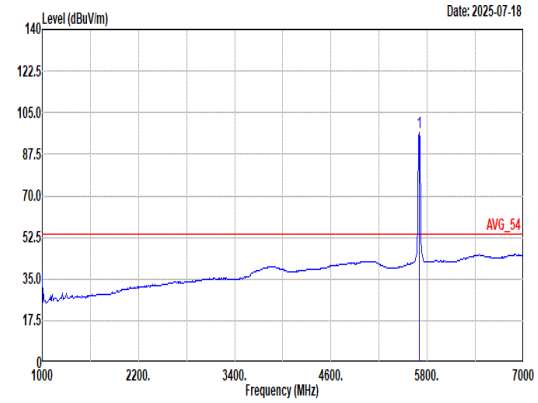
Mode	1	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5144.90 57.48 74.00 -16.52 46.25 32.57 11.88 34.04 0.82 100 145 Peak	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5210.00 94.61 ------ ------ 83.70 32.39 11.93 34.19 0.78 100 145 Peak
Avg	 Site : 03CH22-HY Condition: AVG_BE_54 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3.300kHz SWT:Auto 1 5149.94 49.62 54.00 -4.38 38.37 32.60 11.88 34.05 0.82 100 145 Average	 Site : 03CH22-HY Condition: AVG_54 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3.300kHz SWT:Auto 1 5210.00 87.87 ------ ------ 76.97 32.38 11.95 34.21 0.78 100 145 Average

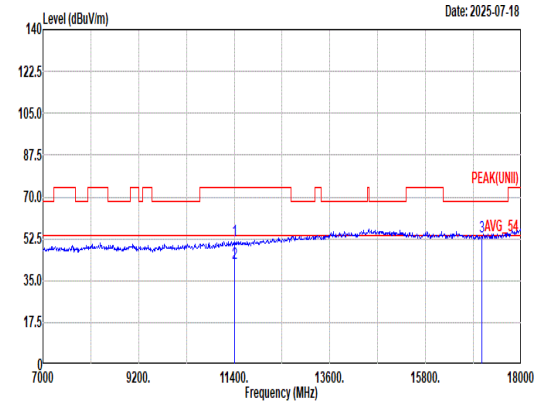
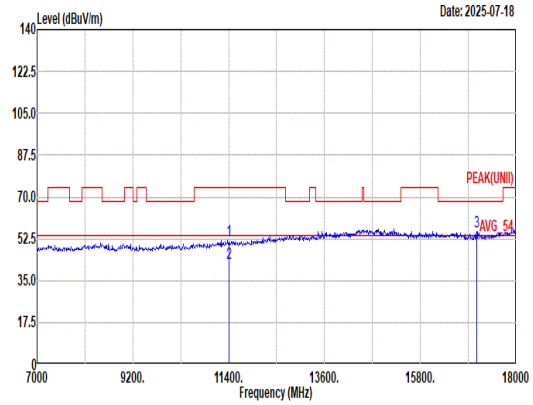
Mode	1	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5370.00 48.09 74.00 -25.91 37.33 32.30 12.32 34.61 0.75 100 145 Peak	Blank
Avg	 Site : 03CH22-HY Condition: AVG_BE_54 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3.300kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5356.25 40.91 54.00 -13.09 30.14 32.30 12.29 34.57 0.75 100 145 Average	Blank

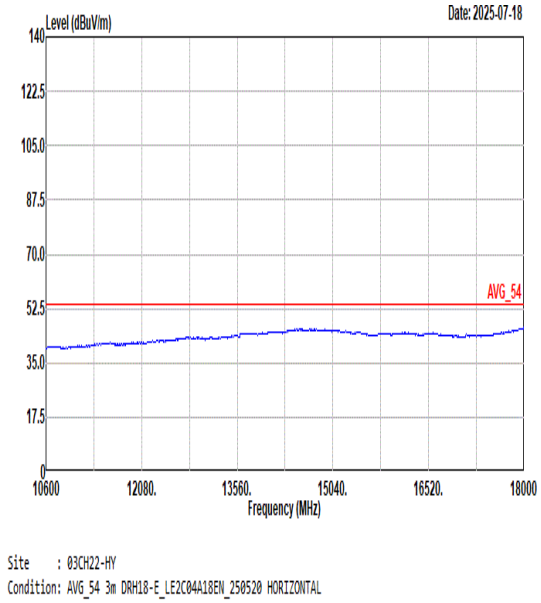
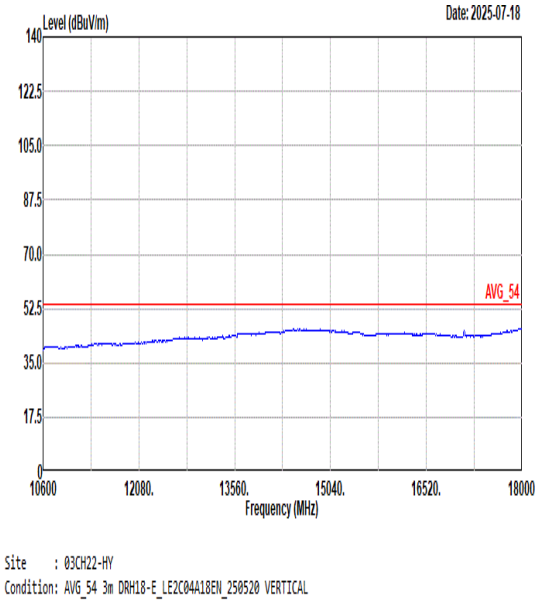
Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10420.00 49.51 68.20 -18.69 33.46 37.26 17.21 39.56 1.14 -- -- Peak 2 15630.00 54.21 74.00 -19.79 35.36 41.34 20.73 45.11 1.89 -- -- Peak 3 15630.00 45.07 54.00 -8.93 26.22 41.34 20.73 45.11 1.89 -- -- Average	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10420.00 49.61 68.20 -18.59 33.56 37.26 17.21 39.56 1.14 -- -- Peak 2 15630.00 54.80 74.00 -19.20 35.95 41.34 20.73 45.11 1.89 -- -- Peak 3 15630.00 45.22 54.00 -8.78 26.37 41.34 20.73 45.11 1.89 -- -- Average

Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	2	
Pol.	Horizontal	Vertical
10.6G ~18G Avg		

Mode	2	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition: PEAK_BE(UNII)_B3 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5726.85 63.96 68.20 -4.24 51.82 33.70 12.45 34.99 0.98 100 56 Peak	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5700.00 104.73 ------ ------ 92.66 33.68 12.44 34.98 0.93 100 56 Peak
Avg	Blank	 Site : 03CH22-HY Condition: AVG_54 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL : RBW:1000.000kHz VBW:0.750kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5700.00 99.13 ------ ------ 87.06 33.68 12.44 34.98 0.93 100 56 Average

Mode	2	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition: PEAK_BE(UNII)_B3 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5725.48 60.24 68.20 -7.96 48.10 33.70 12.45 34.99 0.98 365 118 Peak	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5700.00 103.13 ------ ------ 91.06 33.68 12.44 34.98 0.93 365 118 Peak
Avg	Blank	 Site : 03CH22-HY Condition: AVG_54 3m DRH18-E_LE2C04A18EN_250520 VERTICAL : RBW:1000.000kHz VBW:0.750kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5700.00 96.69 ------ ------ 84.62 33.68 12.44 34.98 0.93 365 118 Average

Mode	2	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11400.00 51.69 74.00 -22.31 34.29 38.80 17.81 40.43 1.22 100 340 Peak 2 11400.00 42.08 54.00 -11.92 24.68 38.80 17.81 40.43 1.22 100 340 Average 3 17100.00 53.57 68.20 -14.63 36.03 40.40 21.78 46.51 1.87 -- -- Peak	 Site : 03CH22-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C04A18EN_250520 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11400.00 51.92 74.00 -22.08 34.52 38.80 17.81 40.43 1.22 100 254 Peak 2 11400.00 42.49 54.00 -11.51 25.09 38.80 17.81 40.43 1.22 100 254 Average 3 17100.00 55.56 68.20 -12.64 38.02 40.40 21.78 46.51 1.87 -- -- Peak

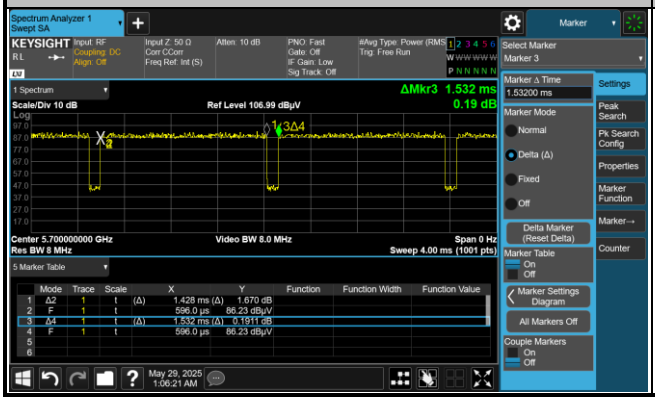
Mode	2	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	2	
Pol.	Horizontal	Vertical
10.6G ~18G Avg		

Appendix D. Duty Cycle Plots

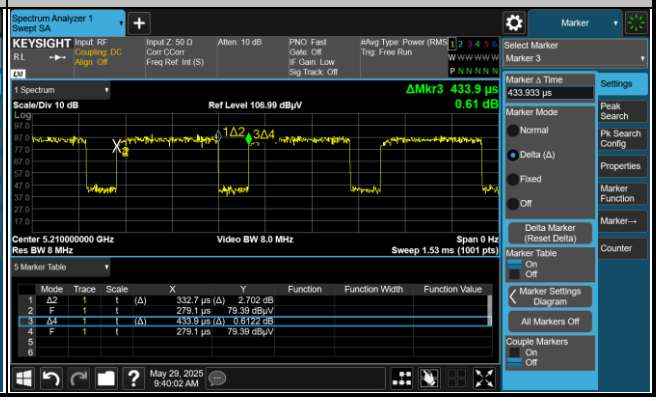
Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	93.21	1428	0.70	750Hz
1	5GHz 802.11ac VHT80	76.68	332.7	3.01	3.3kHz
2	802.11a	93.21	1428	0.70	750Hz
2	5GHz 802.11ac VHT80	76.67	332	3.01	3.3kHz

<Ant. 1>

802.11a

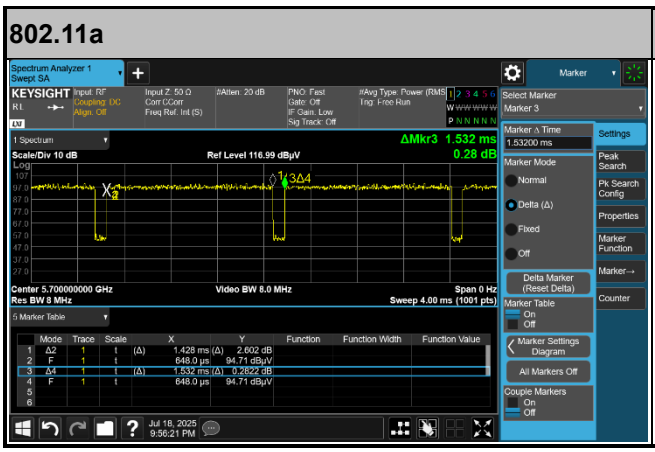
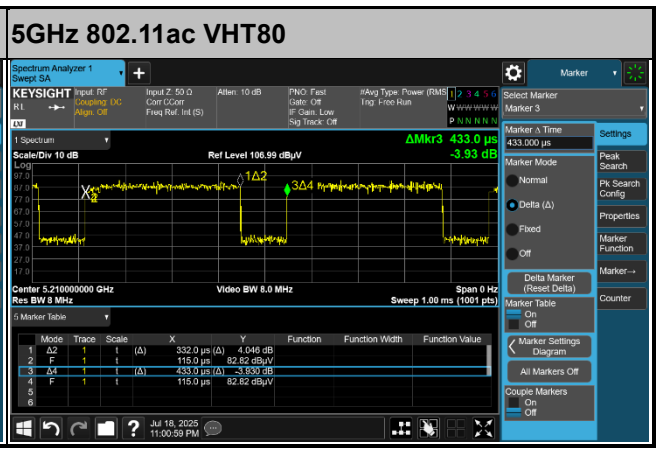


5GHz 802.11ac VHT80



<Ant. 2>

802.11a



5GHz 802.11ac VHT80