FCC RADIO TEST REPORT

FCC ID	:	**2BSOW-BWS3004BAB**
Equipment	:	**Smart Birdfeeder**
Brand Name	:	**Birdbuddy**
Model Name	:	**Birdbuddy 2**
Applicant	:	**Bird Buddy Inc.** **169 Madison Avenue, Suite 15233,** **New York, NY 10016, US**
Manufacturer	:	**Xavi Technologies (Thailand) Co., Ltd.** **82 Mu 4, Takham Bangpakong,** **Chachoengsao 24130, Thailand**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Nov. 04, 2025 and testing was performed from Nov. 06, 2025 to Nov. 20, 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 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.)

Table of Contents

History of this test report **3**
Summary of Test Result **4**
1 General Description **5**
1.1 Product Feature of Equipment Under Test 5
1.2 Modification of EUT 5
1.3 Testing Location 6
1.4 Applicable Standards 6
2 Test Configuration of Equipment Under Test **7**
2.1 Carrier Frequency and Channel 7
2.2 Test Mode 7
2.3 Connection Diagram of Test System 8
2.4 Support Unit used in test configuration and system 8
2.5 EUT Operation Test Setup 9
2.6 Measurement Results Explanation Example 9
3 Test Result **10**
3.1 26dB & 99% Occupied Bandwidth Measurement 10
3.2 Maximum Conducted Output Power Measurement 11
3.3 Power Spectral Density Measurement 13
3.4 Unwanted Emissions Measurement 15
3.5 AC Conducted Emission Measurement 20
3.6 Antenna Requirements 22
4 List of Measuring Equipment **23**
5 Measurement Uncertainty **25**
Appendix A. Conducted Test Results
Appendix B. AC Conducted Emission Test Result
Appendix C. Radiated Spurious Emission Test Result
Appendix D. Duty Cycle Plots
Appendix E. Setup Photographs

History of this test report

Report No.	Version	Description	Issue Date
FR582014-01C	01	Initial issue of report	Nov. 27, 2025
FR582014-01C	02	Revise appendix A This report is an updated version, replacing the report issued on Nov. 27, 2025.	Dec. 01, 2025
FR582014-01C	03	Revise section 4 and appendix A This report is an updated version, replacing the report issued on Dec. 01, 2025.	Dec. 12, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	-
3.5	15.207	AC Conducted Emission	Pass	-
3.6	15.203	Antenna Requirement	Pass	-

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: Sheng Kuo

Report Producer: Vina Su

1 General Description

1.1 Product Feature of Equipment Under Test

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

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	3.55

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

The test location is accredited based on TAF code 1190 and 3786 designated by NCC (National Communication Commission).

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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.)

FCC designation No.: TW1190 and TW3786

Remark:

1. The Conduction test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory. (TAF Code: 1190)
2. The test site complies with ANSI C63.4 2014 requirement.

1.4 Applicable Standards

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

- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC Part 15 Subpart E
- ANSI C63.10-2020

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).

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
	-	-	-	-
	40	5200	48	5240
	-	-	-	-

2.2 Test Mode

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

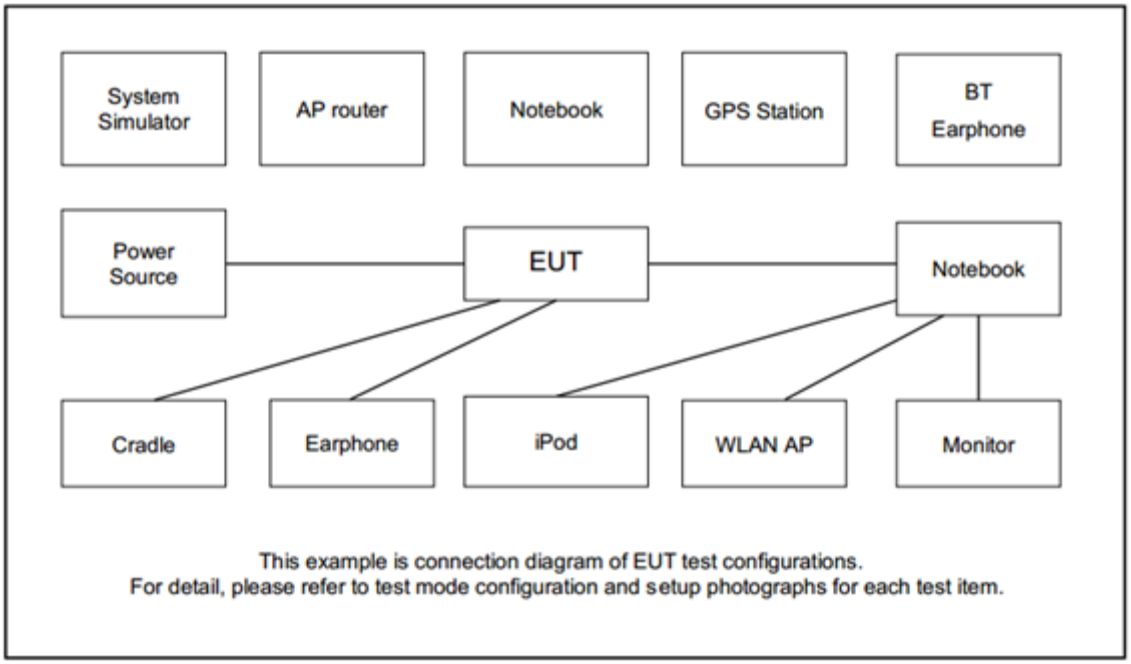
SISO Mode

Modulation	Data Rate
802.11a	**6 Mbps**
802.11n HT20	**MCS0**

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Tx + USB Cable (Charging from AC Adapter)

Remark:
1. The detailed Radiated test modes are shown in Appendix C.
2. 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	OPPO	VCA7JBUH	N/A	N/A	N/A
2.	Adapter	Google	G9BR1 LPS	N/A	N/A	N/A
3.	Notebook	Acer	N18Q13	PD9AX201NG	N/A	Unshielded, 1.8m

2.5 EUT Operation Test Setup

The RF test items, 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.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

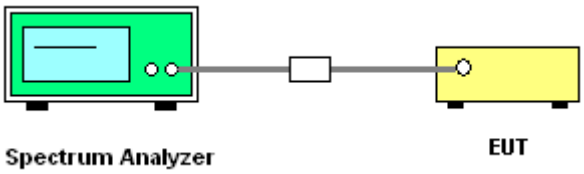
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum Conducted Output Power Measurement

3.2.1 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.

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.

3.2.2 Measuring Instruments

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

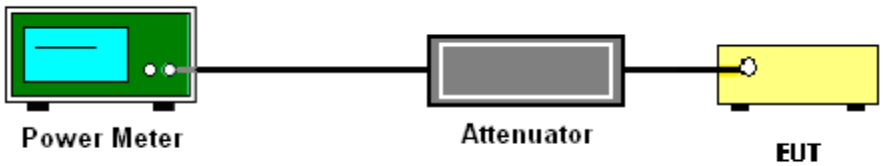
3.2.3 Test Procedures

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.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<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 power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

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.

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

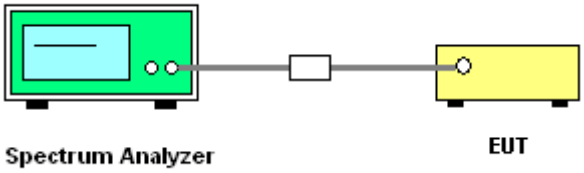
 # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Unwanted Emissions Measurement

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

3.4.1 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.

(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.

3.4.2 Measuring Instruments

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

3.4.3 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

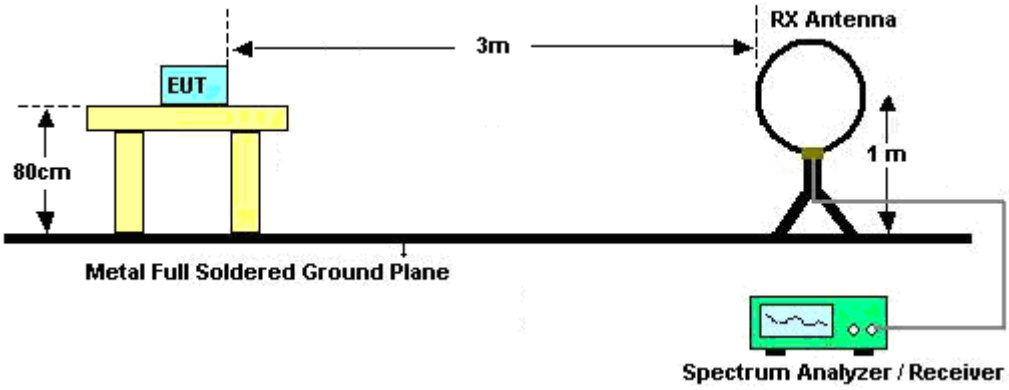
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

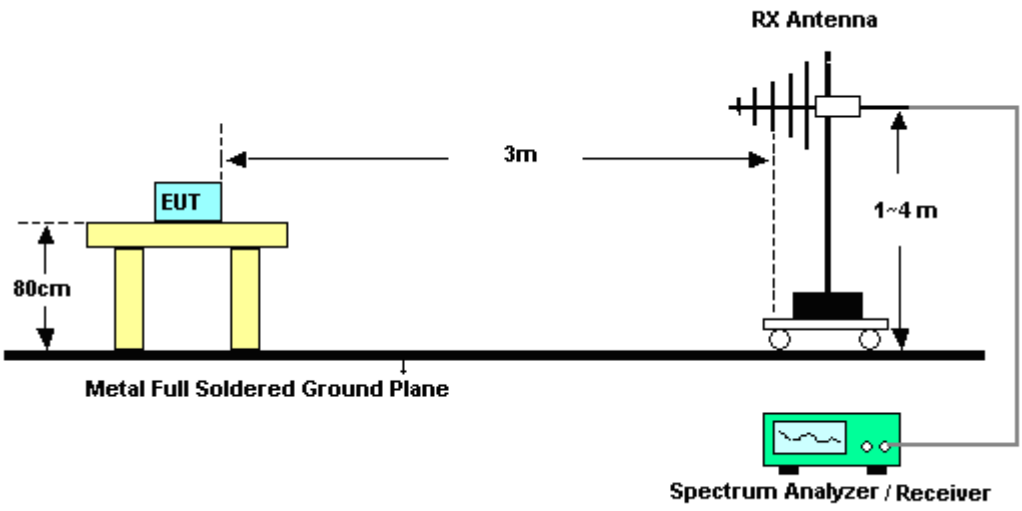
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna 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 "-".

3.4.4 Test Setup

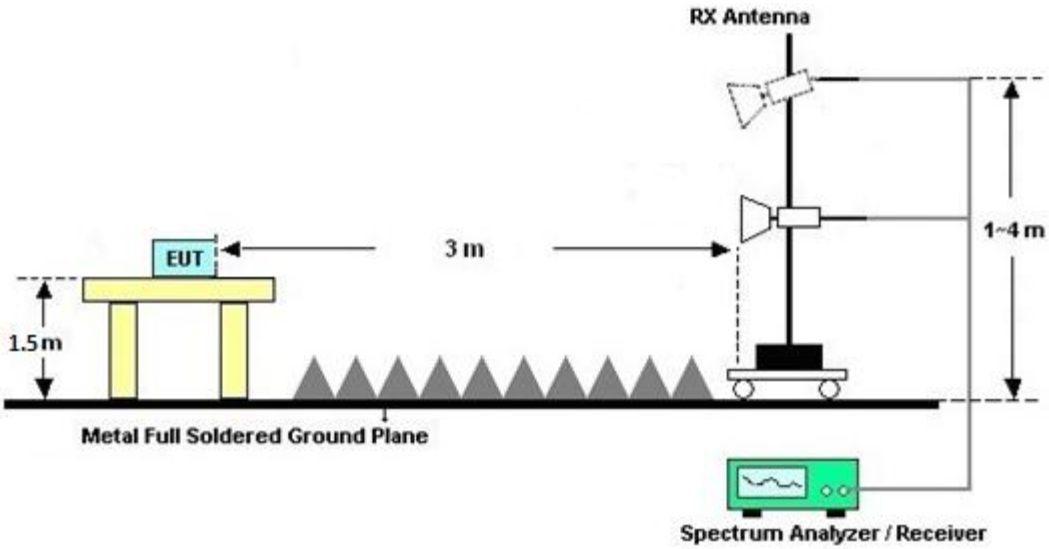
For radiated emissions below 30MHz



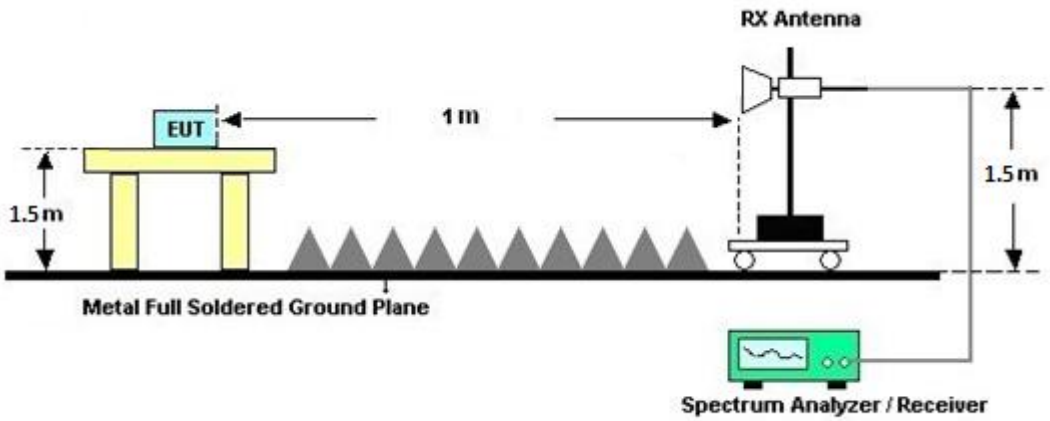
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.4.5 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.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

3.5 AC Conducted Emission Measurement

3.5.1 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.

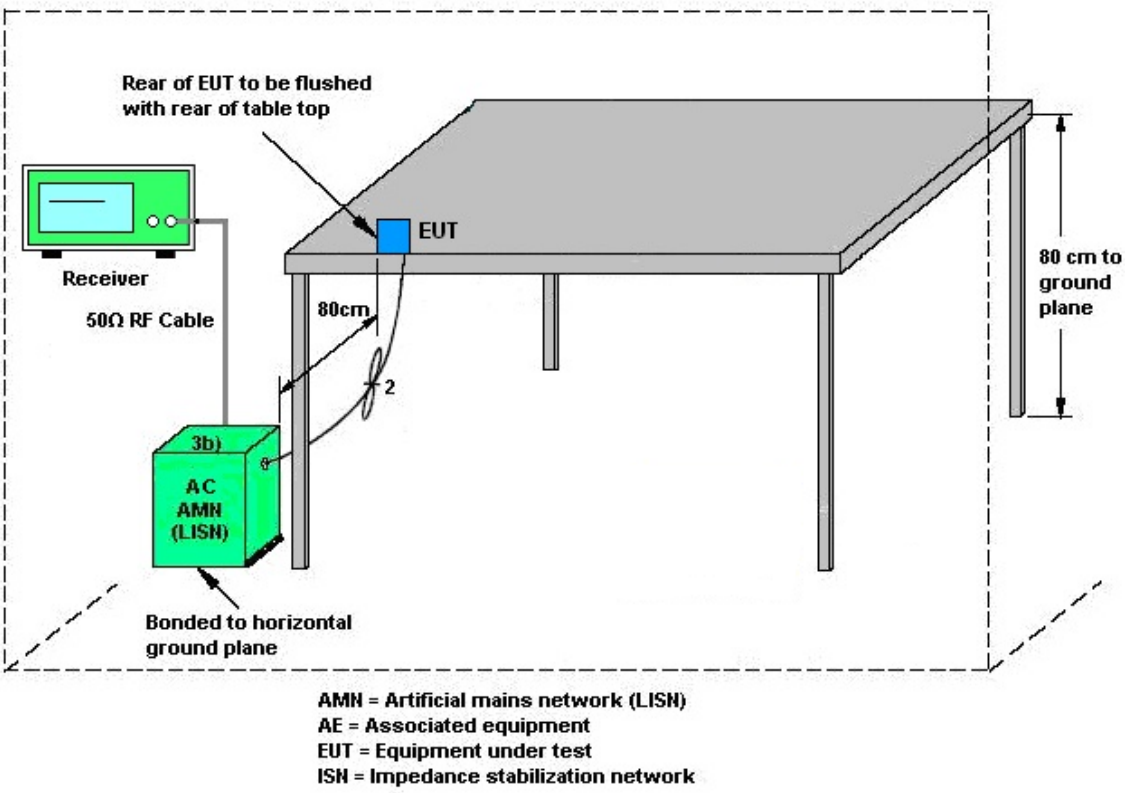
3.5.2 Measuring Instruments

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

3.5.3 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.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

Unique (non-standard) antenna connector.

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-Z2E	101108	9 kHz~30 MHz	Dec. 18, 2024	Nov. 13, 2025 ~ Nov. 20, 2025	Dec. 17, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 05, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	Mar. 04, 2026	Radiation (03CH13-HY)
Amplifier	SONOMA	310N	187282	9kHz~1GHz	Dec. 12, 2024	Nov. 13, 2025 ~ Nov. 20, 2025	Dec. 11, 2025	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	40103 & 07	30MHz~1GHz	Apr. 13, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	Apr. 12, 2026	Radiation (03CH13-HY)
EXA Signal Analyzer	Keysight	N9010B	MY64320114	10Hz~44GHz	Oct. 07, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	Oct. 06, 2026	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303A	TP215159	N/A	Sep. 08, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	Sep. 07, 2026	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	1GHz~18GHz	May 14, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	May 13, 2026	Radiation (03CH13-HY)
Preamplifier	EM Electronics	EM01G18G	060803	1GHz-18GHz	Jan. 08, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	Jan. 07, 2026	Radiation (03CH13-HY)
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Sep. 03, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	Sep. 02, 2026	Radiation (03CH13-HY)
Notch Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN12	1.53GHz Low Pass Filter	Sep. 10, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	Sep. 09, 2026	Radiation (03CH13-HY)
Notch Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN2	3GHz High Pass Filter	Jul. 08, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	Jul. 07, 2026	Radiation (03CH13-HY)
Notch Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN5	6.75GHz High Pass Filter	Mar. 07, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	Mar. 06, 2026	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102E	508408-2E	N/A	Jun. 16, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	Jun. 15, 2026	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 06, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	Feb. 05, 2026	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30MHz~18GHz	Feb. 06, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	Feb. 05, 2026	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 13, 2025 ~ Nov. 20, 2025	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Nov. 13, 2025 ~ Nov. 20, 2025	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 13, 2025 ~ Nov. 20, 2025	N/A	Radiation (03CH13-HY)
Software	Audix	N/A	RK-001124	N/A	N/A	Nov. 13, 2025 ~ Nov. 20, 2025	N/A	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz-40GHz	Jul. 02, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	Jul. 01, 2026	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 26, 2025	Nov. 13, 2025 ~ Nov. 20, 2025	May 25, 2026	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804012/2	18GHz-40GHz	Dec. 31, 2024	Nov. 13, 2025 ~ Nov. 20, 2025	Dec. 30, 2025	Radiation (03CH13-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 06, 2025	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	N/A	Dec. 10, 2024	Nov. 06, 2025	Dec. 09, 2025	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP210031	N/A	Jun. 26, 2025	Nov. 06, 2025	Jun. 25, 2026	Conduction (CO05-HY)
Two-Line V-Network	Rohde & Schwarz	ENV216	100081	N/A	Jul. 25, 2025	Nov. 06, 2025	Jul. 24, 2026	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Nov. 06, 2025	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 29, 2025	Nov. 06, 2025	Jul. 28, 2026	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	MQT24082501	N/A	Oct. 14, 2025	Nov. 06, 2025	Oct. 13, 2026	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Nov. 11, 2025 ~ Nov. 20, 2025	Nov. 03, 2026	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Nov. 11, 2025 ~ Nov. 20, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Jan. 14, 2025	Nov. 11, 2025 ~ Nov. 20, 2025	Jan. 13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Nov. 11, 2025 ~ Nov. 20, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Nov. 11, 2025 ~ Nov. 20, 2025	N/A	Conducted (TH05-HY)

5 Measurement Uncertainty

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

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))	6.6 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.6 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.6 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.2 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Jay Chen	Temperature (°C):	21~25
Test Date:	2025/11/11~2025/11/20	Relative Humidity (%):	51~54

Test Result

TEST RESULTS DATA

26dB and 99% OBW

U-NII-1												
Mod.	Data Rate	NTX	CH.	Freq (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)	
					Ant1	-	Ant1	-	Ant1	-	Ant1	-
11a	6M	1	36	5180	17.12	-	27.10	-	-	-	22.34	-
11a	6M	1	44	5220	17.26	-	29.37	-	-	-	22.37	-
11a	6M	1	48	5240	17.86	-	33.27	-	-	-	22.52	-
HT20	MCS0	1	36	5180	18.27	-	29.68	-	-	-	22.62	-
HT20	MCS0	1	44	5220	18.44	-	31.27	-	-	-	22.66	-
HT20	MCS0	1	48	5240	19.17	-	31.53	-	-	-	22.83	-

TEST RESULTS DATA

Average Output Power

U-NII-1 single antenna											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)		Power Limit (dBm)	EIRP Power Limit (dBm)	DG (dBi)	Setting	Pass /Fail
					Ant1	SUM			Ant1	Ant1	
11a	6M	1Tx	36	5180	19.11	---	24	27.55	3.55	21	Pass
11a	6M	1Tx	44	5220	18.84	---	24	27.55	3.55	21.5	Pass
11a	6M	1Tx	48	5240	20.11	---	24	27.55	3.55	22.0	Pass
11n20	MCS0	1Tx	36	5180	18.08	---	24	27.55	3.55	20.5	Pass
11n20	MCS0	1Tx	44	5220	18.82	---	24	27.55	3.55	19.5	Pass
11n20	MCS0	1Tx	48	5240	19.99	---	24	27.55	3.55	20.0	Pass

TEST RESULTS DATA

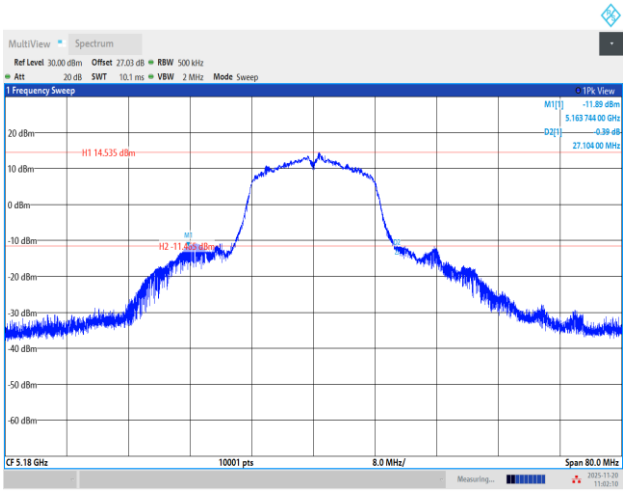
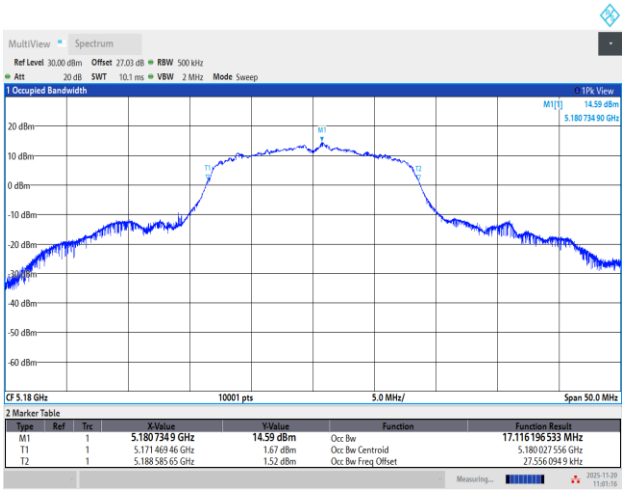
Power Spectral Density

FCC U-NII-1														
Mod.	Data Rate	NTX	CH.	Freq (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant1	-	Ant1	-	-	Ant1	-	Ant1	-	
11a	6M	1	36	5180	0.29	-	9.64	-	-	11.00	-	3.55	-	Pass
11a	6M	1	44	5220	0.29	-	9.57	-	-	11.00	-	3.55	-	Pass
11a	6M	1	48	5240	0.29	-	10.79	-	-	11.00	-	3.55	-	Pass
HT20	MCS0	1	36	5180	0.31	-	8.77	-	-	11.00	-	3.55	-	Pass
HT20	MCS0	1	44	5220	0.31	-	9.26	-	-	11.00	-	3.55	-	Pass
HT20	MCS0	1	48	5240	0.31	-	10.53	-	-	11.00	-	3.55	-	Pass

Test Result of 26dB & 99% Occupied Bandwidth

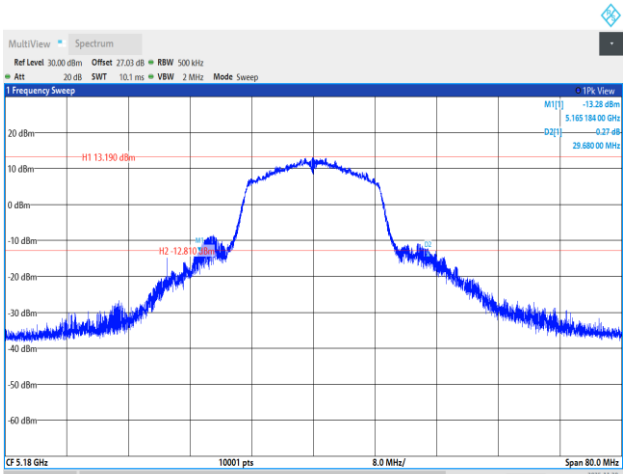
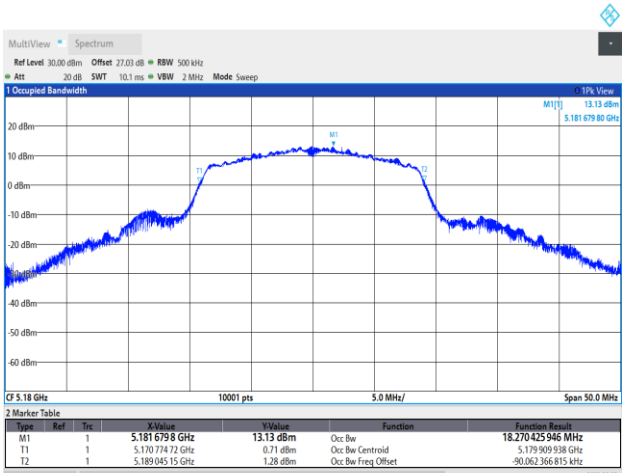
SISO <Ant. 1>

<802.11a>

26dB Bandwidth	99% Occupied Bandwidth
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11n HT20>

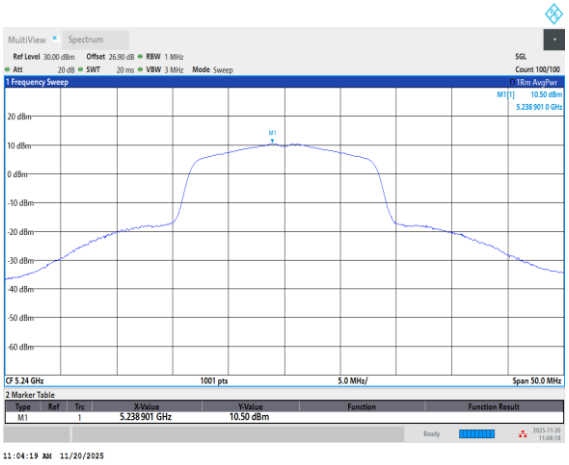
26dB Bandwidth	99% Occupied Bandwidth
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

Test Result of Power Spectral Density

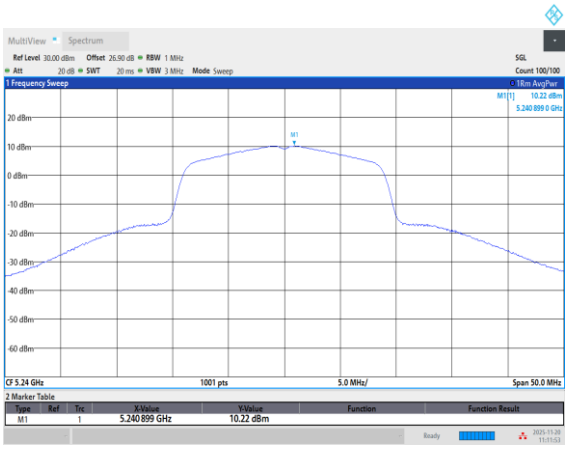
<802.11a>

Maximum Power Density Plot Trace 1 (Ant 1)



<802.11n HT20>

Maximum Power Density Plot Trace 1 (Ant 1)

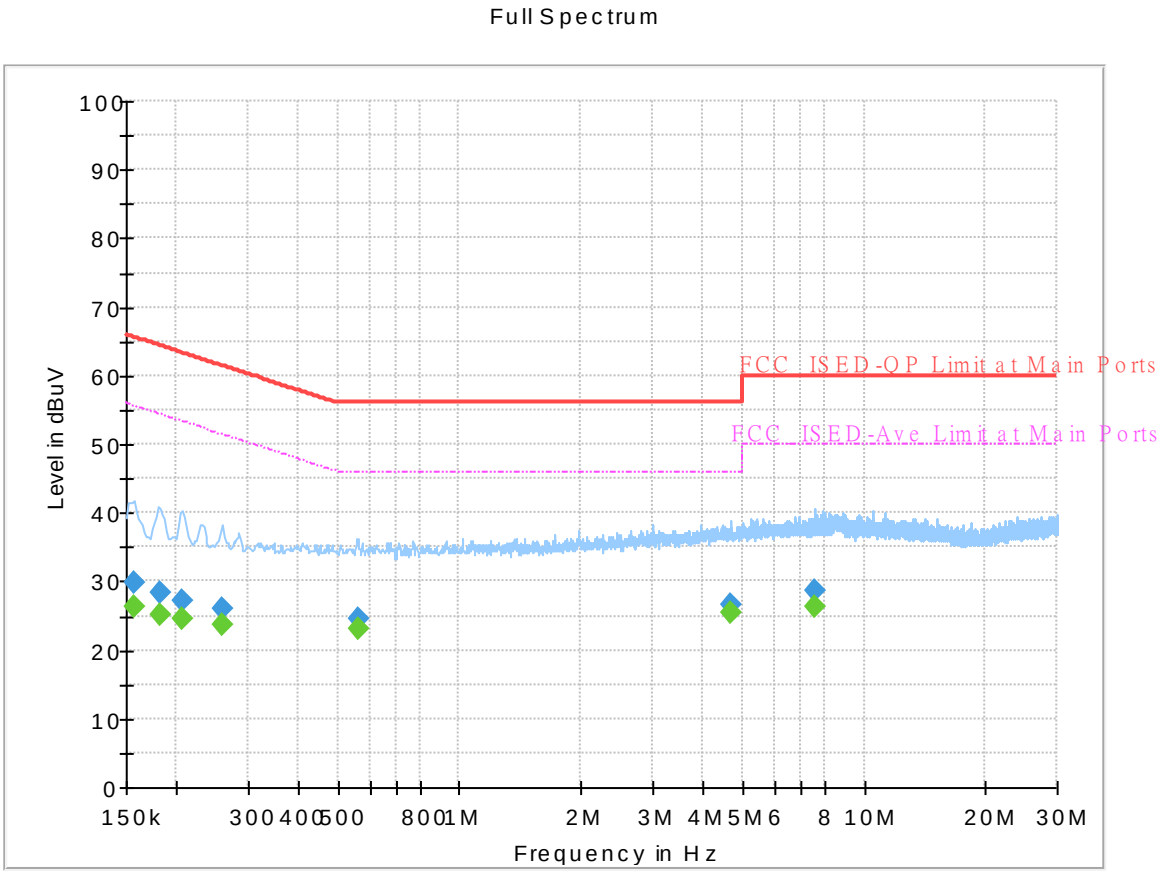


Appendix B. AC Conducted Emission Test Results

Test Engineer :	Brian Chen	**Temperature :**	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO :	582014-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

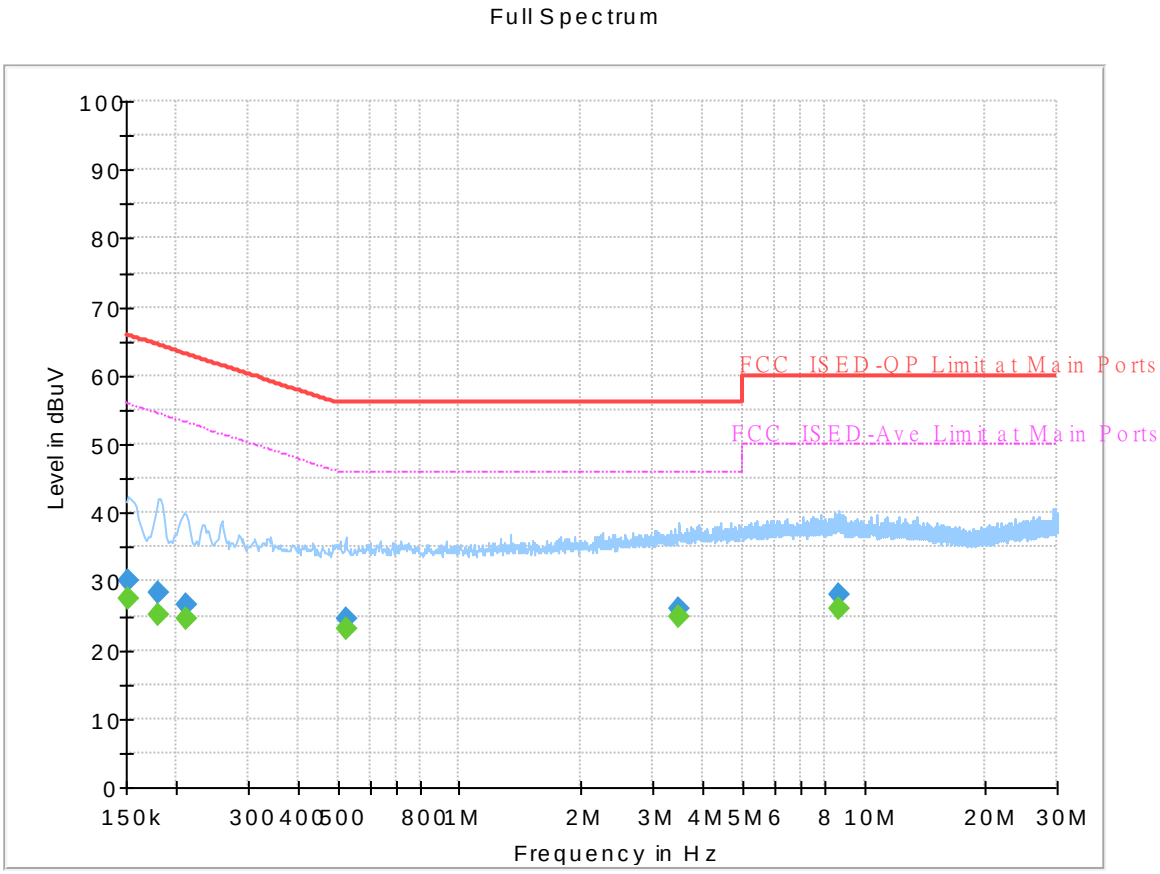


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	26.43	55.63	29.20	L1	OFF	19.8
0.156750	29.72	---	65.63	35.91	L1	OFF	19.8
0.181500	---	25.06	54.42	29.36	L1	OFF	19.8
0.181500	28.34	---	64.42	36.08	L1	OFF	19.8
0.206250	---	24.59	53.36	28.77	L1	OFF	19.8
0.206250	27.20	---	63.36	36.16	L1	OFF	19.8
0.258000	---	23.81	51.50	27.69	L1	OFF	19.8
0.258000	25.92	---	61.50	35.58	L1	OFF	19.8
0.559500	---	23.07	46.00	22.93	L1	OFF	19.8
0.559500	24.45	---	56.00	31.55	L1	OFF	19.8
4.699500	---	25.38	46.00	20.62	L1	OFF	20.1
4.699500	26.56	---	56.00	29.44	L1	OFF	20.1
7.527750	---	26.30	50.00	23.70	L1	OFF	20.3
7.527750	28.67	---	60.00	31.33	L1	OFF	20.3

EUT Information

Report NO :	582014-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	27.56	55.88	28.32	N	OFF	19.8
0.152250	30.19	---	65.88	35.69	N	OFF	19.8
0.179250	---	25.12	54.52	29.40	N	OFF	19.8
0.179250	28.43	---	64.52	36.09	N	OFF	19.8
0.210750	---	24.44	53.18	28.74	N	OFF	19.8
0.210750	26.58	---	63.18	36.60	N	OFF	19.8
0.525750	---	23.17	46.00	22.83	N	OFF	19.8
0.525750	24.55	---	56.00	31.45	N	OFF	19.8
3.498000	---	24.75	46.00	21.25	N	OFF	20.0
3.498000	26.09	---	56.00	29.91	N	OFF	20.0
8.668500	---	26.15	50.00	23.85	N	OFF	20.4
8.668500	27.97	---	60.00	32.03	N	OFF	20.4

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Rain Lee, Jacky Hong and White Hou	**Temperature :**	21.4 ~25.4°C
		Relative Humidity :	46.8 ~ 54.3%

Note symbol

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

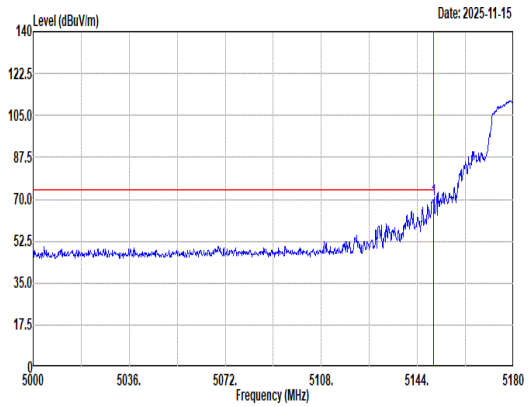
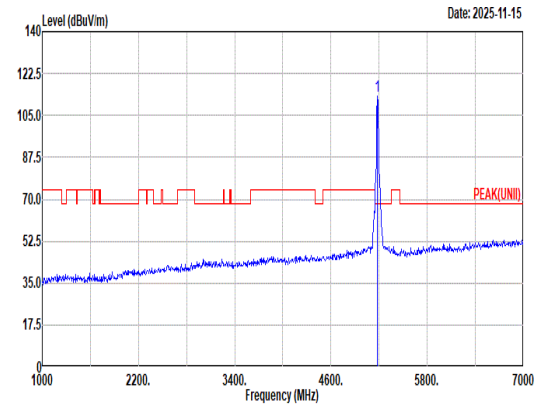
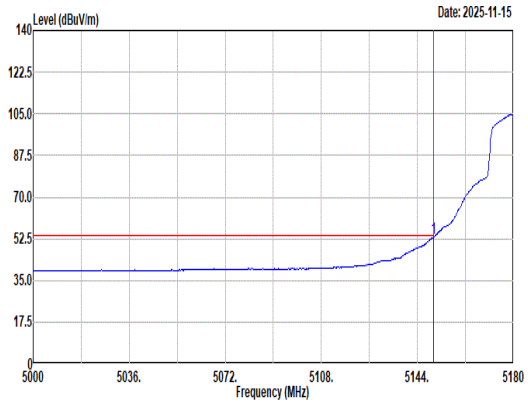
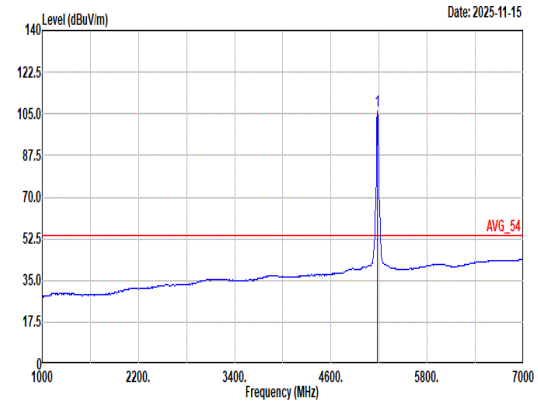
C1.Radiated Spurious Emission Test Modes

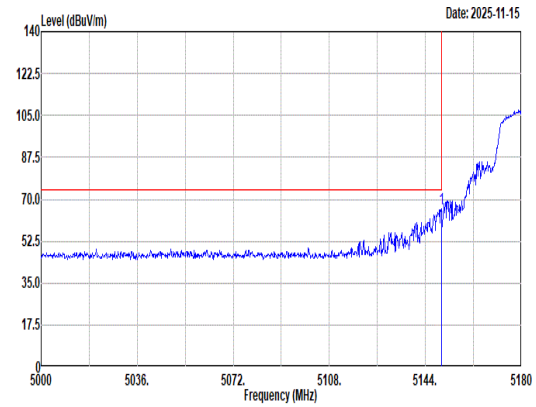
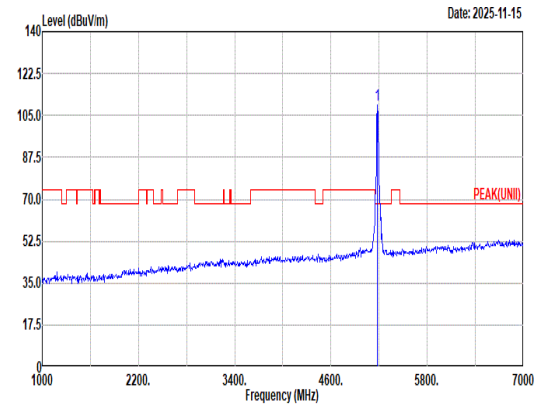
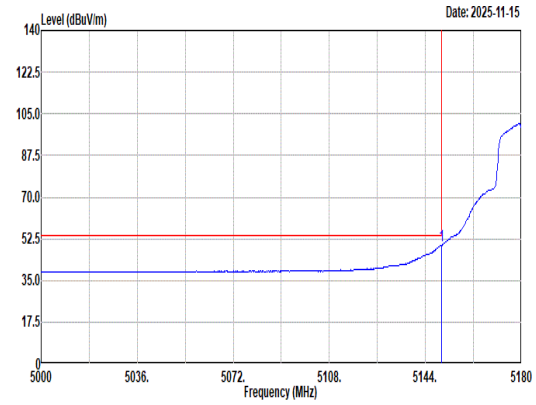
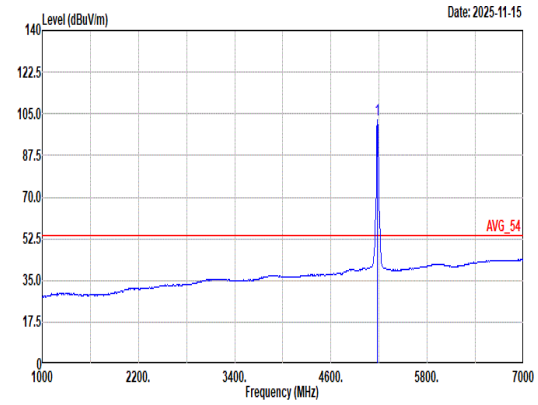
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	1	802.11a	36	5180	6Mbps	-	-
Mode 2	U-NII-1	5.15-5.25	1	802.11a	44	5220	6Mbps	-	-
Mode 3	U-NII-1	5.15-5.25	1	802.11a	48	5240	6Mbps	-	-
Mode 4	U-NII-1	5.15-5.25	1	802.11n HT20	36	5180	MCS0	-	-
Mode 5	U-NII-1	5.15-5.25	1	802.11n HT20	44	5220	MCS0	-	-
Mode 6	U-NII-1	5.15-5.25	1	802.11n HT20	48	5240	MCS0	-	-
Mode 7	U-NII-1	5.15-5.25	1	802.11a	48	5240	6Mbps	-	LF
Mode 8	U-NII-1	5.15-5.25	1	802.11a	48	5240	6Mbps	-	SHF

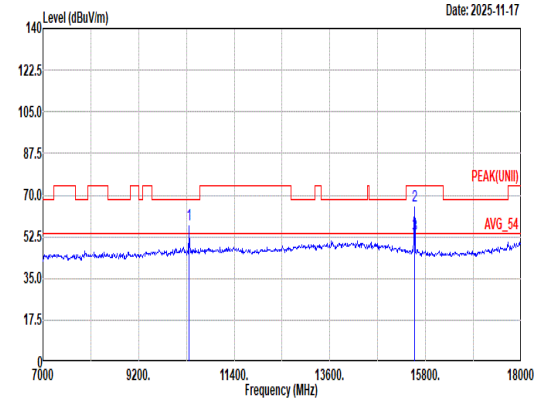
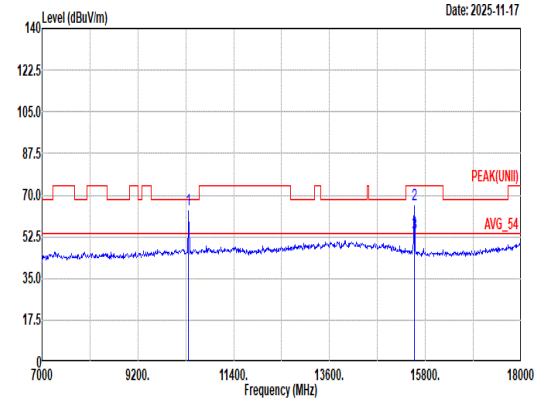
C2.Summary of each worse mode

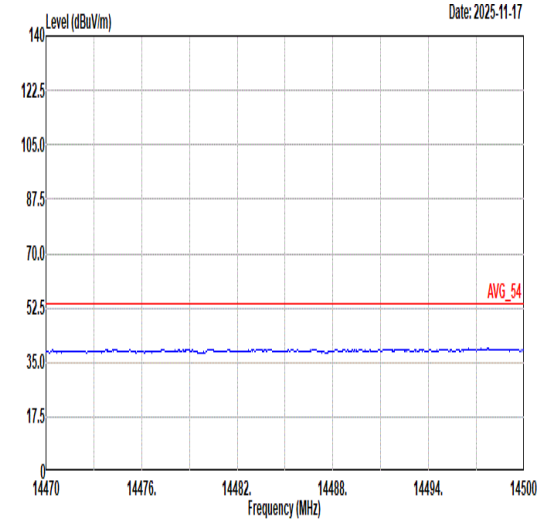
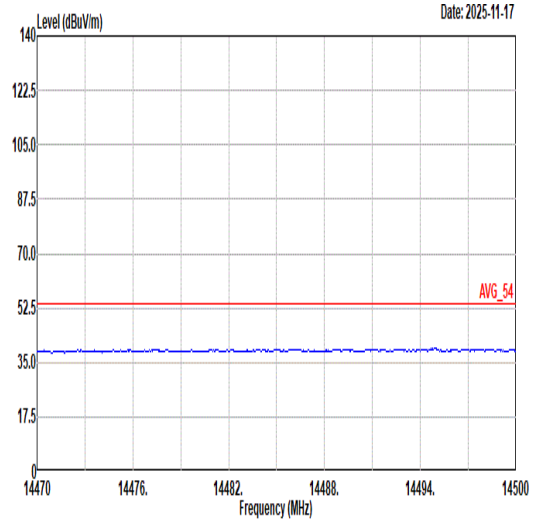
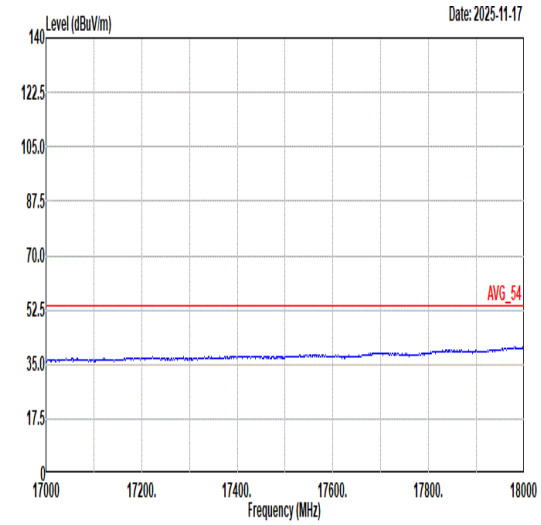
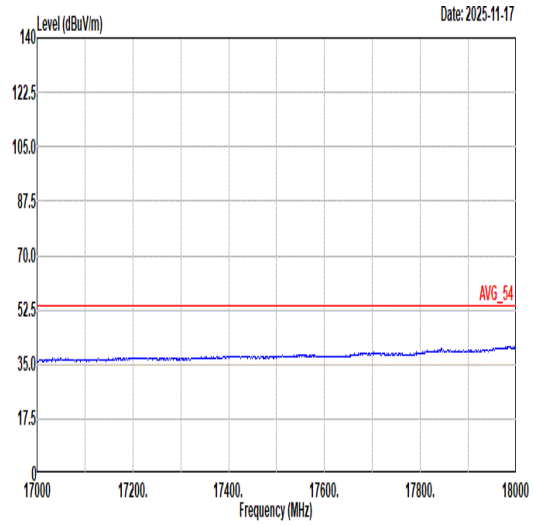
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11a	36	5149.94	53.07	54.00	-0.93	H	Avg.	Pass	-	Band Edge
	802.11a	36	15540.00	53.68	54.00	-0.32	V	Avg.	Pass	-	Harmonic
2	802.11a	44	5149.60	40.83	54.00	-13.17	H	Avg.	Pass	-	Band Edge
	802.11a	44	15660.00	53.58	54.00	-0.42	V	Avg.	Pass	-	Harmonic
3	802.11a	48	5149.76	40.38	54.00	-13.62	H	Avg.	Pass	-	Band Edge
	802.11a	48	15720.00	53.80	54.00	-0.20	V	Avg.	Pass	-	Harmonic
4	802.11n HT20	36	5149.94	52.67	54.00	-1.33	H	Avg.	Pass	-	Band Edge
	802.11n HT20	36	15540.00	52.06	54.00	-1.94	V	Avg.	Pass	-	Harmonic
5	802.11n HT20	44	5149.82	40.56	54.00	-13.44	H	Avg.	Pass	-	Band Edge
	802.11n HT20	44	15660.00	52.89	54.00	-1.11	V	Avg.	Pass	-	Harmonic
6	802.11n HT20	48	5150.00	40.59	54.00	-13.41	H	Avg.	Pass	-	Band Edge

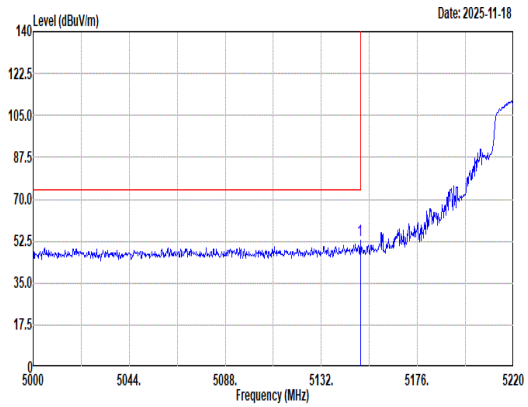
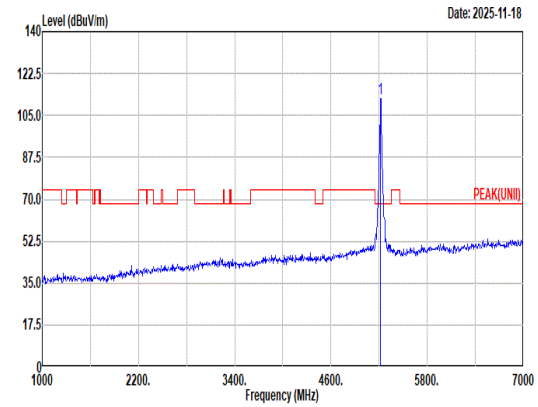
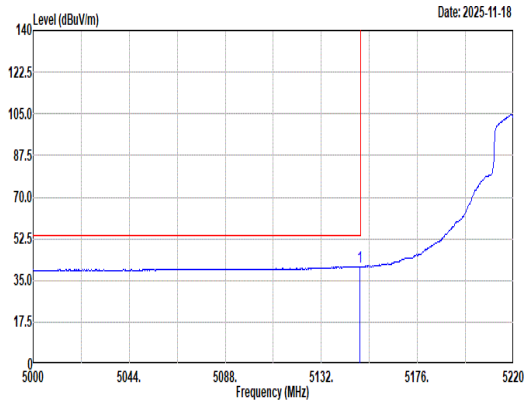
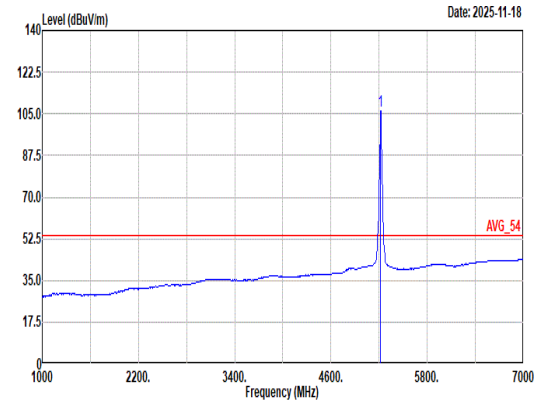
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
6	802.11n HT20	48	15720.00	52.74	54.00	-1.26	V	Avg.	Pass	-	Harmonic
7	LF	48	774.96	39.80	46.00	-6.20	V	Peak	Pass	-	LF
8	SHF	48	39604.00	54.86	74.00	-19.14	V	Peak	Pass	-	SHF

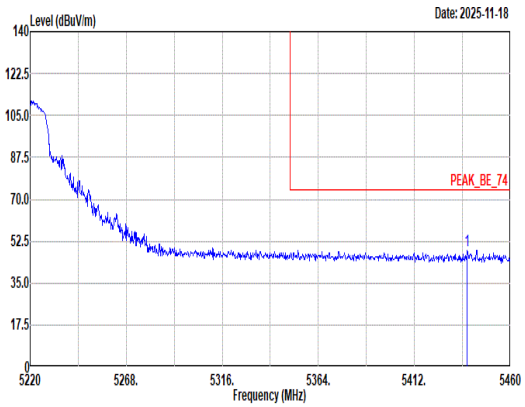
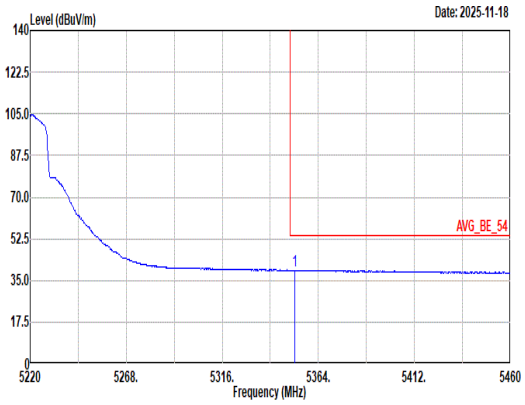
Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5149.94 69.79 74.00 -4.21 64.01 32.90 9.73 36.85 0.00 200 259 Peak	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5180.00 112.92 ------ ------ 107.03 32.96 9.77 36.84 0.00 200 259 Peak
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.510kHz SWT:Auto 1 5149.94 53.07 54.00 -0.93 47.29 32.90 9.73 36.85 0.00 200 259 Average	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.510kHz SWT:Auto 1 5180.00 106.35 ------ ------ 100.46 32.96 9.77 36.84 0.00 200 259 Average

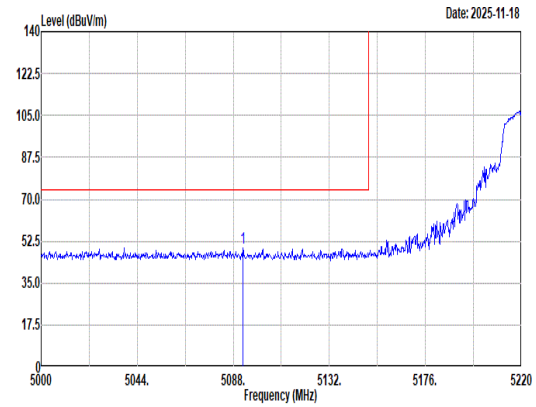
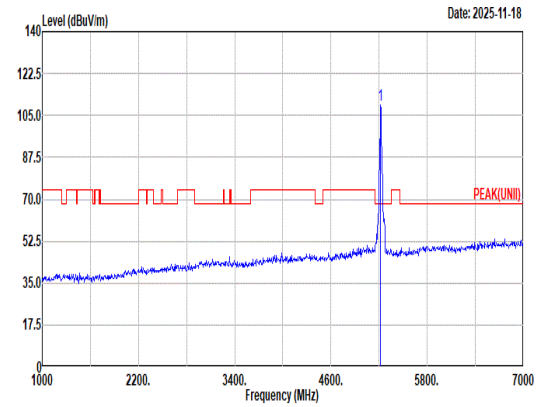
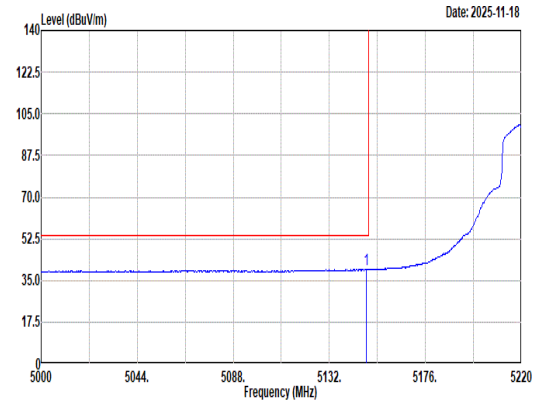
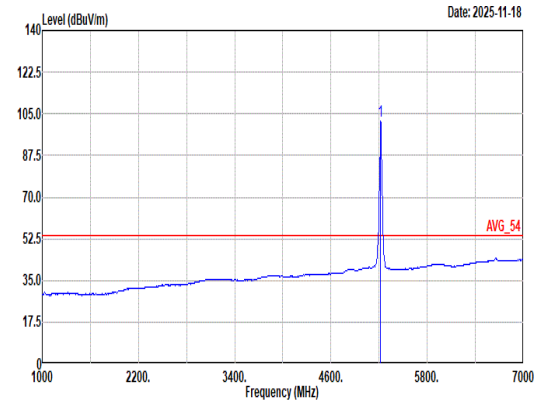
Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5149.94 65.97 74.00 -8.03 60.19 32.90 9.73 36.85 0.00 107 218 Peak	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 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 5180.00 109.19 ------ ------ 103.30 32.96 9.77 36.84 0.00 107 218 Peak
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.510kHz 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 5149.94 49.55 54.00 -4.45 43.77 32.90 9.73 36.85 0.00 107 218 Average	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.510kHz 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 5180.00 102.27 ------ ------ 96.38 32.96 9.77 36.84 0.00 107 218 Average

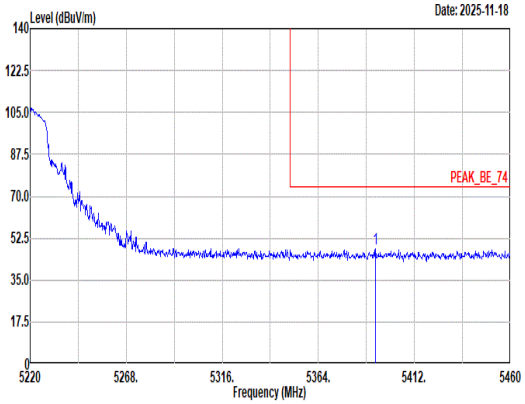
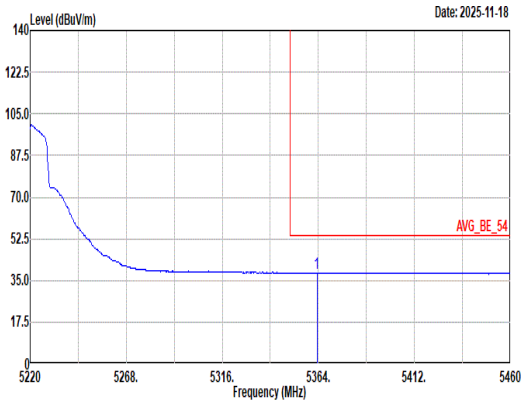
Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10360.00 57.46 68.20 -10.74 60.07 38.70 14.82 56.75 0.62 286 272 Peak 2 15540.00 65.58 74.00 -8.42 64.68 38.20 18.36 56.23 0.57 200 92 Peak 3 15540.00 53.40 54.00 -0.60 52.50 38.20 18.36 56.23 0.57 200 92 Average	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 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 10360.00 64.04 68.20 -4.16 66.65 38.70 14.82 56.75 0.62 197 164 Peak 2 15540.00 66.10 74.00 -7.90 65.20 38.20 18.36 56.23 0.57 202 151 Peak 3 15540.00 53.68 54.00 -0.32 52.78 38.20 18.36 56.23 0.57 202 151 Average

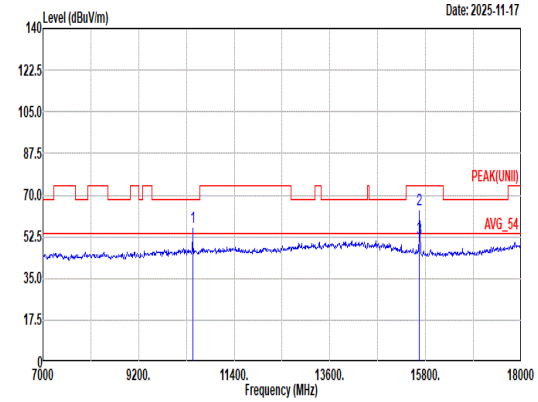
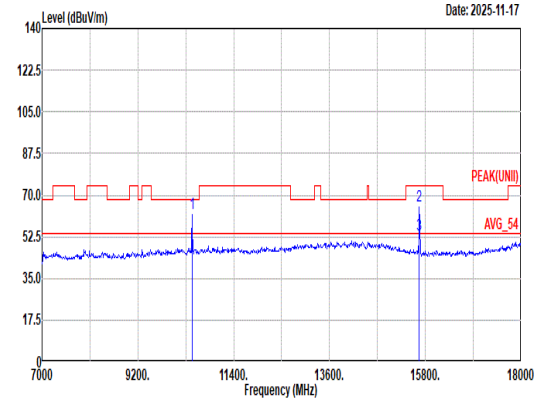
Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL
17G ~18G Avg	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL

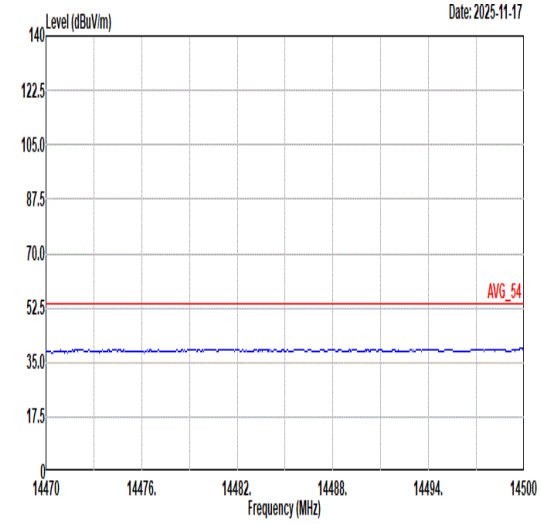
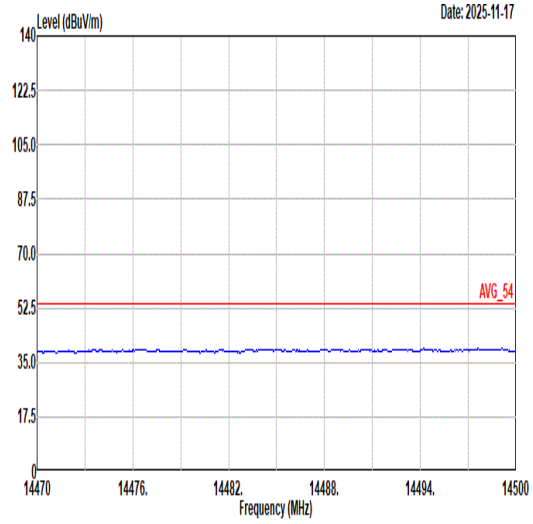
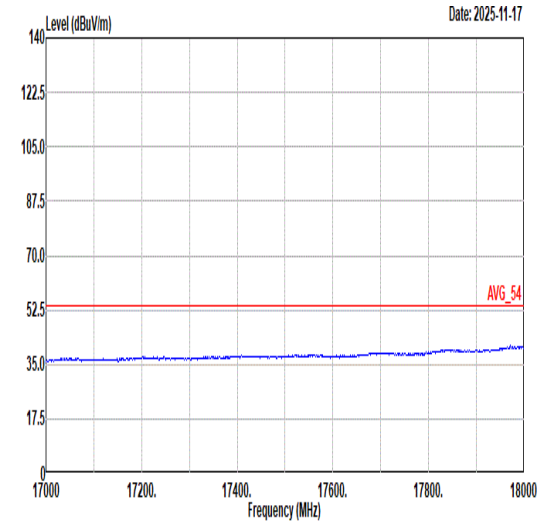
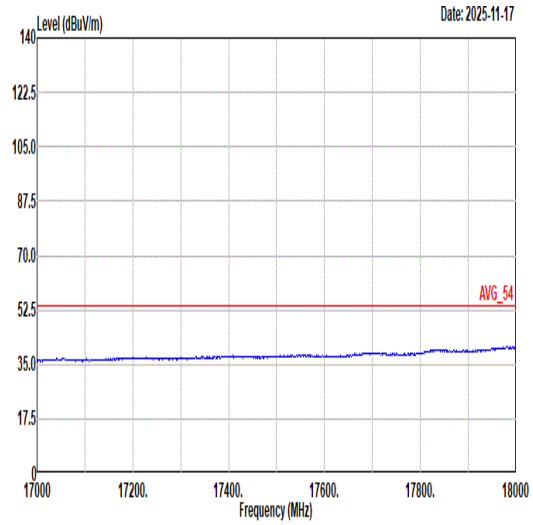
Mode	2	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5149.82 52.83 74.00 -21.17 47.05 32.90 9.73 36.85 0.00 200 256 Peak	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 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 5220.00 112.00 ------ ------ 106.02 33.00 9.81 36.83 0.00 200 256 Peak
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.510kHz 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 5149.60 40.83 54.00 -13.17 35.05 32.90 9.73 36.85 0.00 200 256 Average	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.510kHz 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 5220.00 106.13 ------ ------ 100.16 33.00 9.81 36.84 0.00 200 256 Average

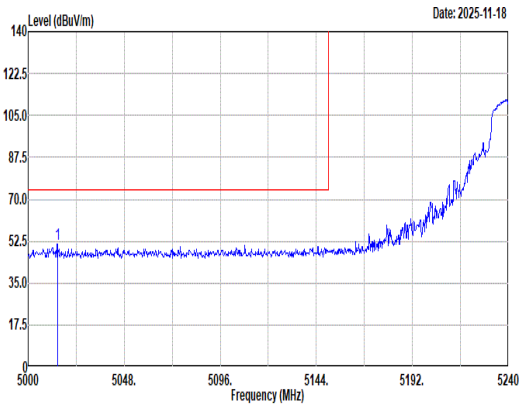
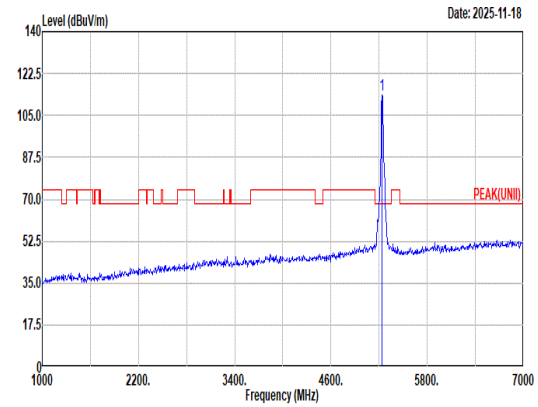
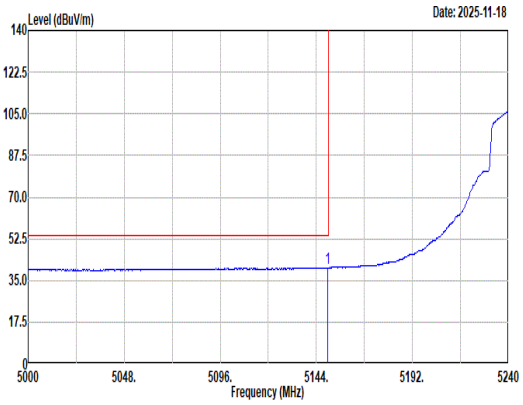
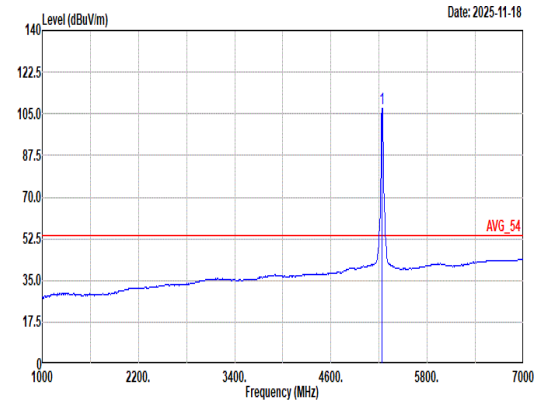
Mode	2	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5438.40 48.74 74.00 -25.26 42.70 32.82 10.02 36.80 0.00 200 256 Peak	Blank
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.510kHz 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 5352.24 39.32 54.00 -14.68 33.29 32.90 9.94 36.81 0.00 200 256 Average	Blank

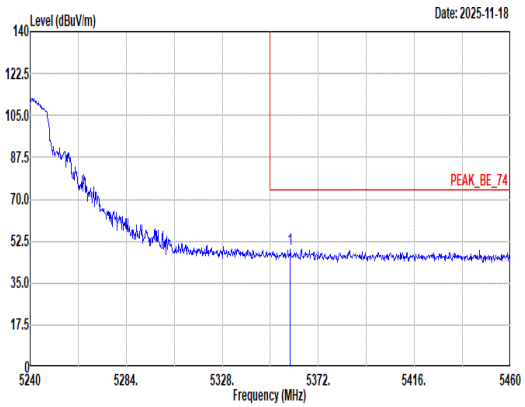
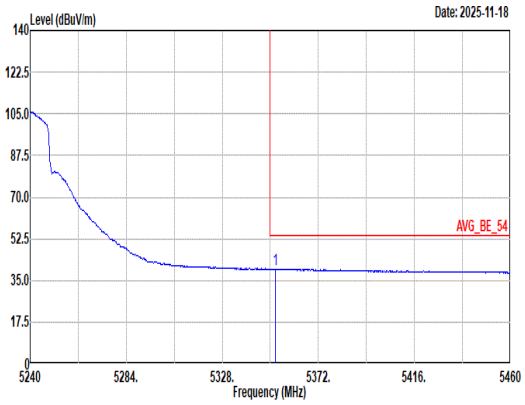
Mode	2	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5092.40 49.91 74.00 -24.09 44.27 32.83 9.67 36.86 0.00 123 221 Peak	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 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 5220.00 109.18 ------ ------ 103.21 33.00 9.81 36.84 0.00 123 221 Peak
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.510kHz 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 5148.94 39.68 54.00 -14.32 33.90 32.90 9.73 36.85 0.00 123 221 Average	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.510kHz 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 5220.00 101.84 ------ ------ 95.87 33.00 9.81 36.84 0.00 123 221 Average

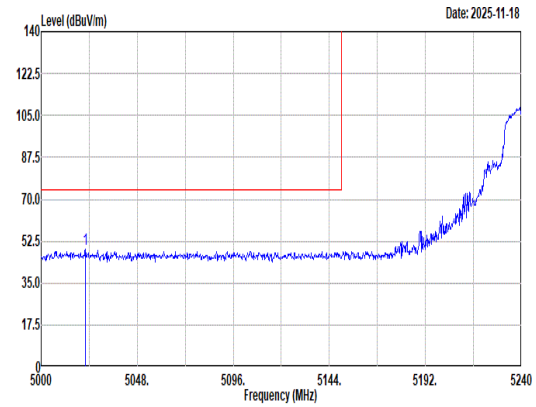
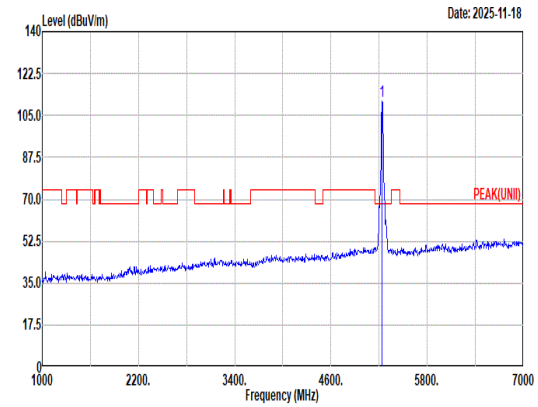
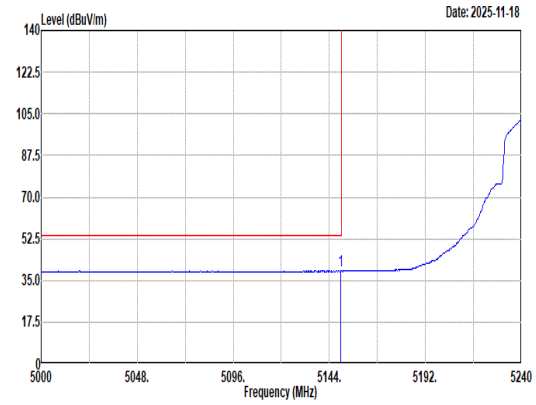
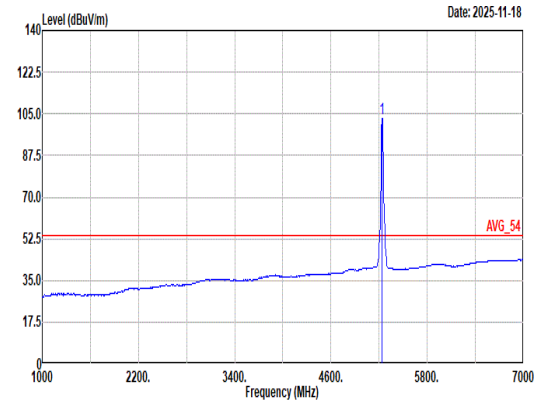
Mode	2	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5392.56 47.92 74.00 -26.08 41.85 32.90 9.98 36.81 0.00 123 221 Peak	Blank
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.510kHz 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 5363.28 38.26 54.00 -15.74 32.22 32.90 9.95 36.81 0.00 123 221 Average	Blank

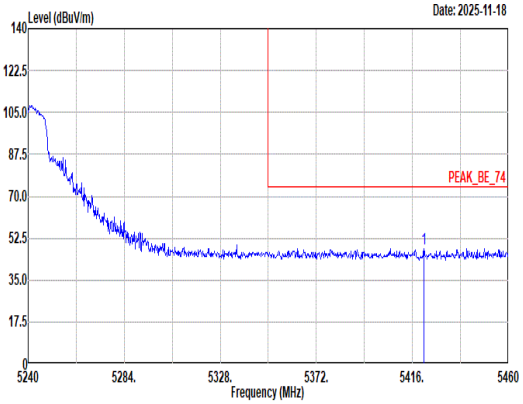
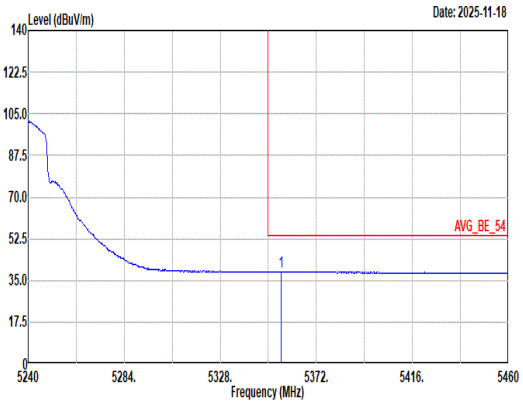
Mode	2	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10440.00 56.38 68.20 -11.82 58.85 38.70 14.88 56.66 0.61 288 271 Peak 2 15660.00 64.05 74.00 -9.95 63.47 37.72 18.42 56.11 0.55 198 90 Peak 3 15660.00 51.72 54.00 -2.28 51.14 37.72 18.42 56.11 0.55 198 90 Average	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 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 10440.00 62.60 68.20 -5.60 65.07 38.70 14.88 56.66 0.61 194 163 Peak 2 15660.00 65.41 74.00 -8.59 64.83 37.72 18.42 56.11 0.55 205 152 Peak 3 15660.00 53.58 54.00 -0.42 53.00 37.72 18.42 56.11 0.55 205 152 Average

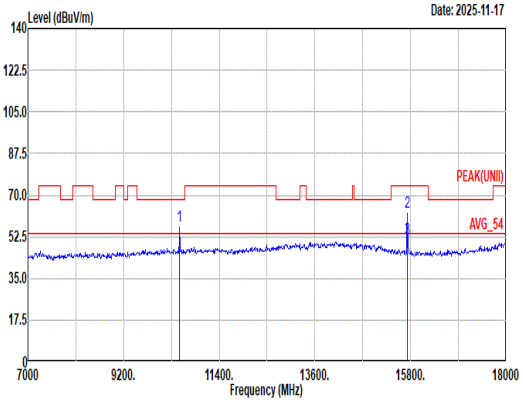
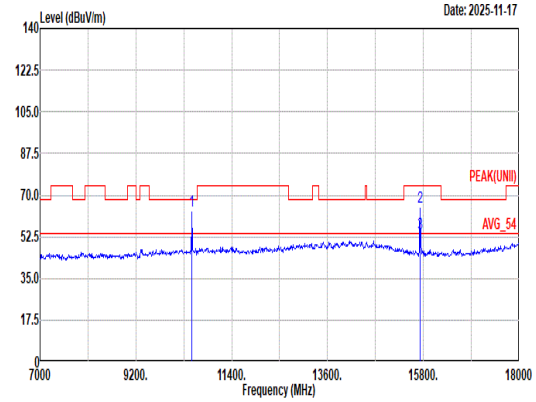
Mode	2	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL
17G ~18G Avg	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL

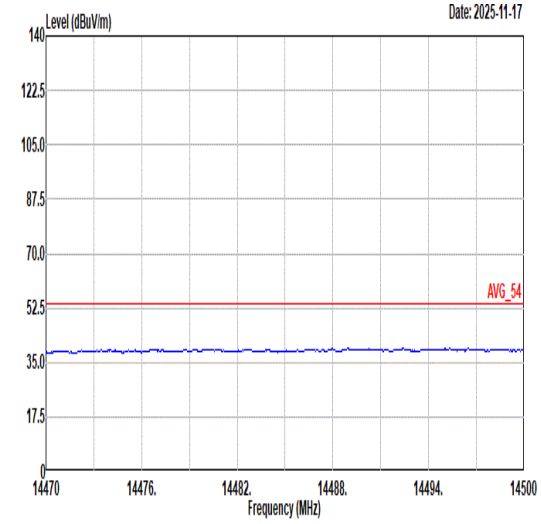
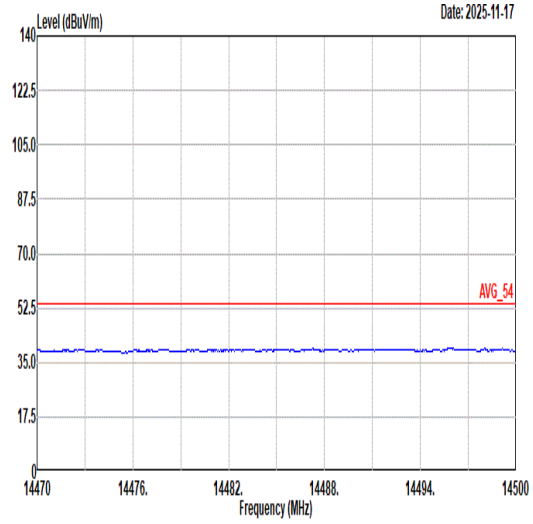
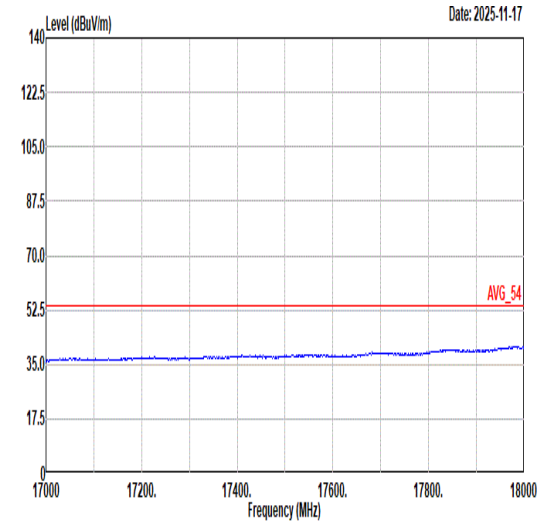
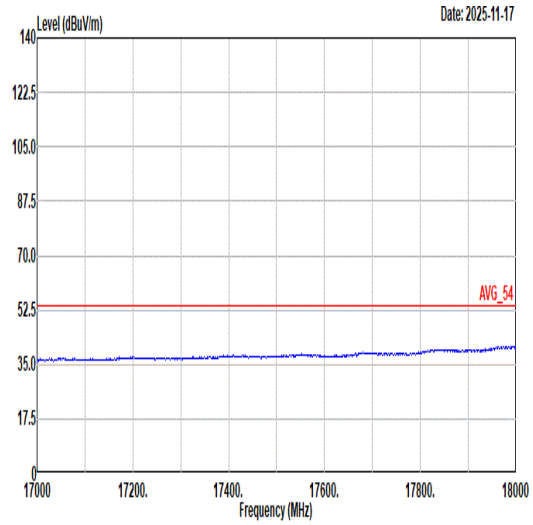
Mode	3	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5014.64 51.39 74.00 -22.61 45.61 33.07 9.58 36.87 0.00 215 257 Peak	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 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 5240.00 113.77 ------ ------ 107.77 33.00 9.83 36.83 0.00 215 257 Peak
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.510kHz 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 5149.76 40.38 54.00 -13.62 34.60 32.90 9.73 36.85 0.00 215 257 Average	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.510kHz 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 5240.00 106.99 ------ ------ 100.99 33.00 9.83 36.83 0.00 215 257 Average

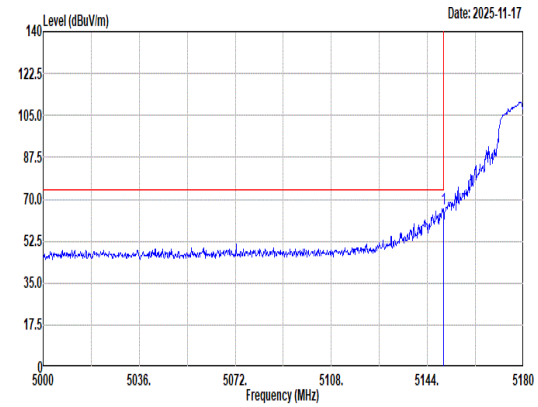
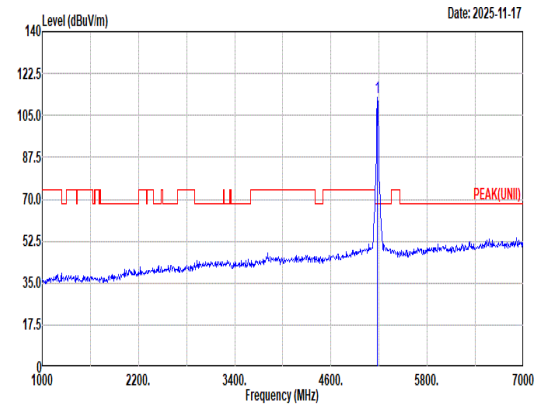
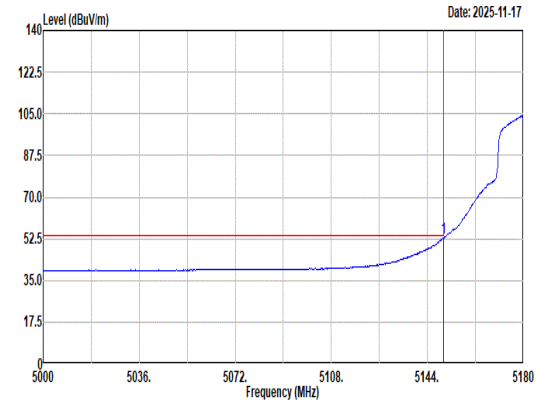
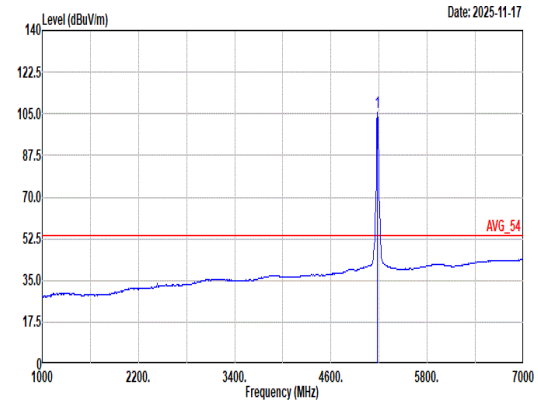
Mode	3	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5359.24 49.14 74.00 -24.86 43.10 32.90 9.95 36.81 0.00 215 257 Peak	Blank
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.510kHz 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 5352.42 39.81 54.00 -14.19 33.78 32.90 9.94 36.81 0.00 215 257 Average	Blank

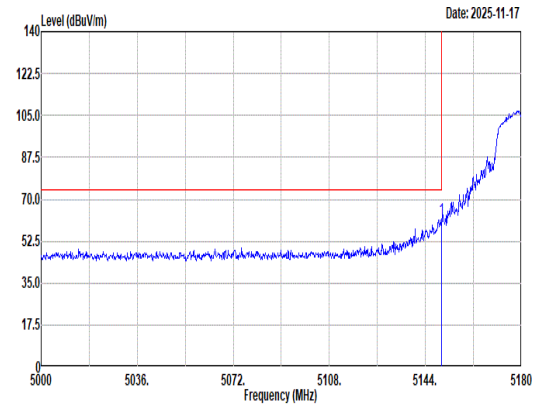
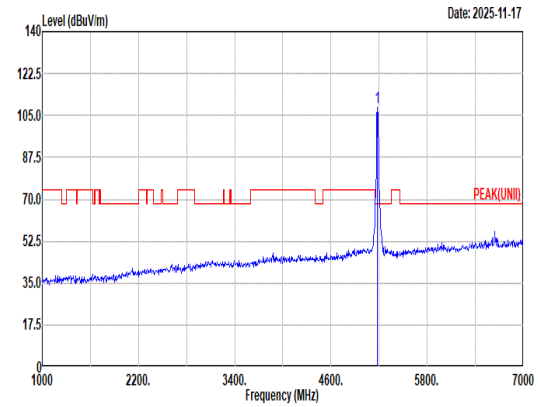
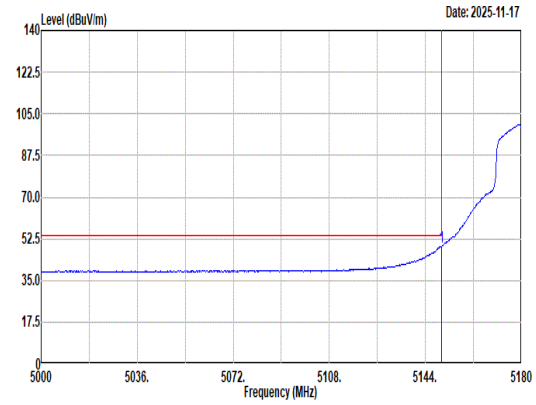
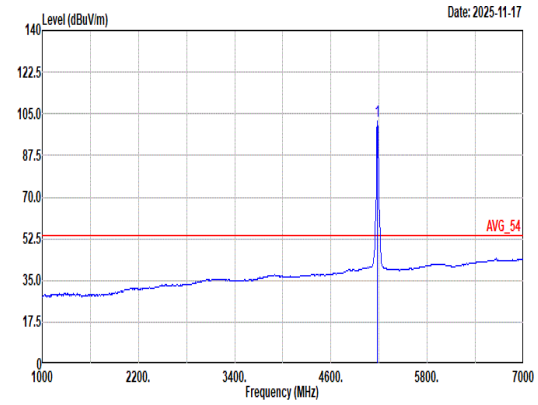
Mode	3	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5022.08 49.32 74.00 -24.68 43.54 33.06 9.59 36.87 0.00 214 334 Peak	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5240.00 110.83 ------ ------ 104.83 33.00 9.83 36.83 0.00 214 334 Peak
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.510kHz SWT:Auto 1 5149.52 39.14 54.00 -14.86 33.36 32.90 9.73 36.85 0.00 214 334 Average	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.510kHz SWT:Auto 1 5240.00 103.21 ------ ------ 97.21 33.00 9.83 36.83 0.00 214 334 Average

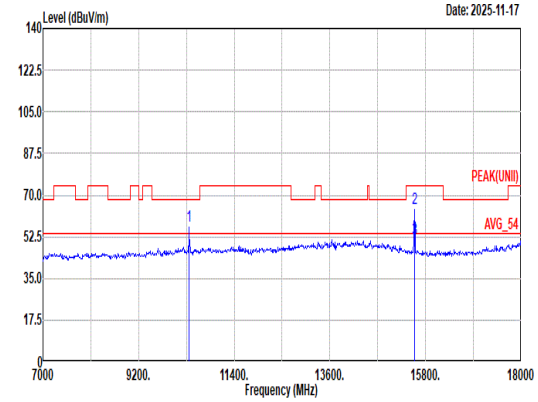
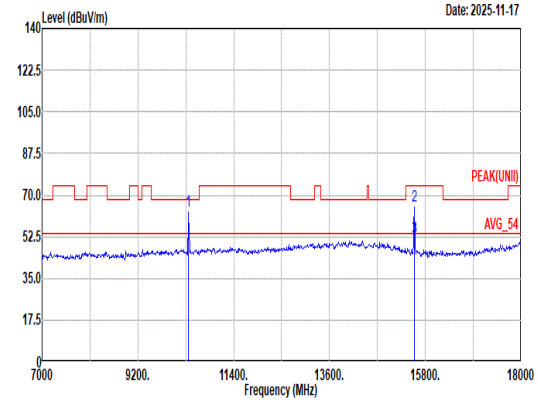
Mode	3	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5421.28 48.32 74.00 -25.68 42.25 32.86 10.01 36.80 0.00 214 334 Peak	Blank
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.510kHz 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 5355.72 38.67 54.00 -15.33 32.63 32.90 9.95 36.81 0.00 214 334 Average	Blank

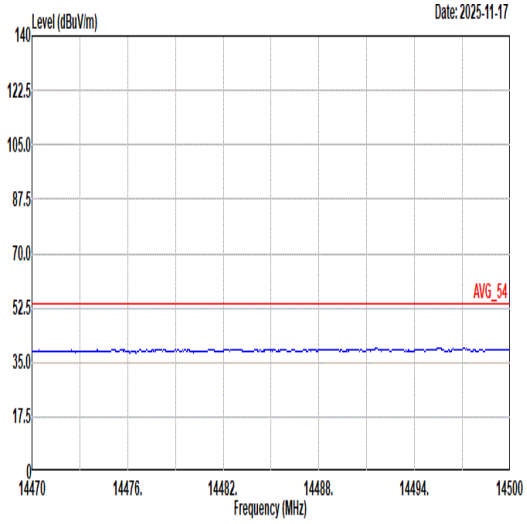
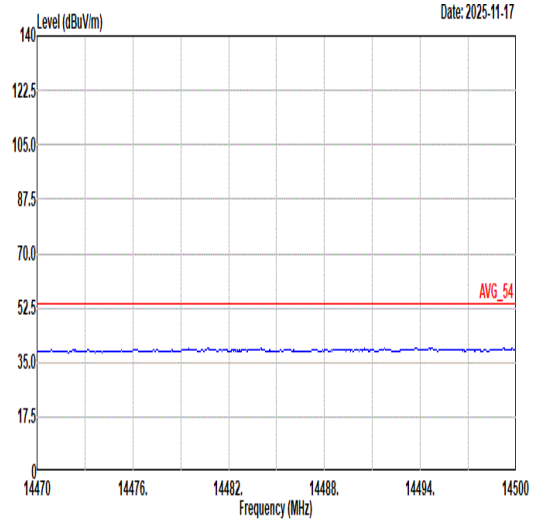
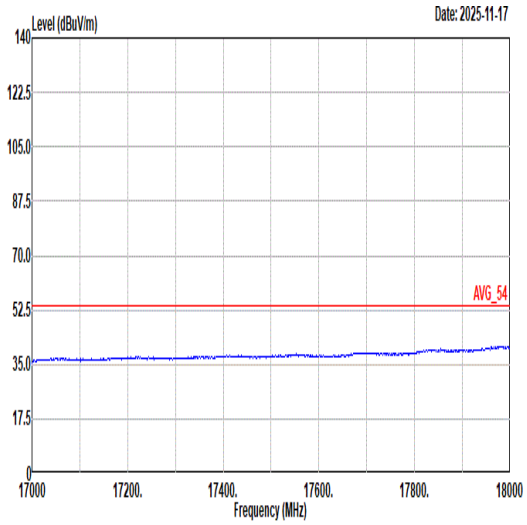
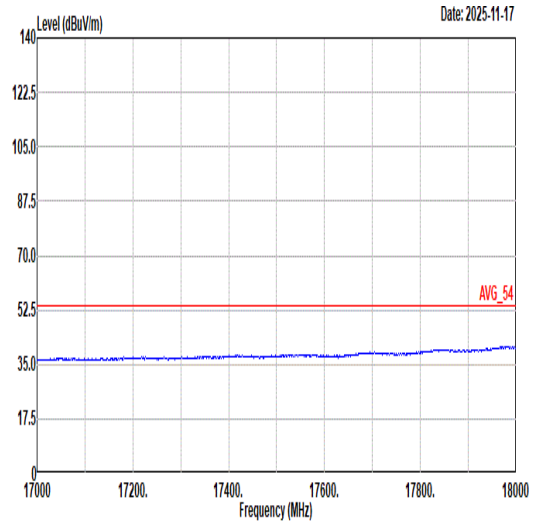
Mode	3	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10480.00 56.93 68.20 -11.27 59.34 38.70 14.91 56.62 0.60 286 270 Peak 2 15720.00 63.07 74.00 -10.93 62.28 37.84 18.46 56.05 0.54 199 92 Peak 3 15720.00 51.60 54.00 -2.40 50.81 37.84 18.46 56.05 0.54 199 92 Average	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 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 10480.00 63.52 68.20 -4.68 65.93 38.70 14.91 56.62 0.60 193 162 Peak 2 15720.00 65.17 74.00 -8.83 64.38 37.84 18.46 56.05 0.54 202 151 Peak 3 15720.00 53.80 54.00 -0.20 53.01 37.84 18.46 56.05 0.54 202 151 Average

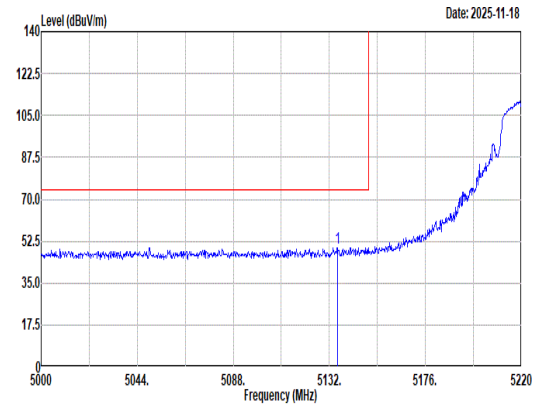
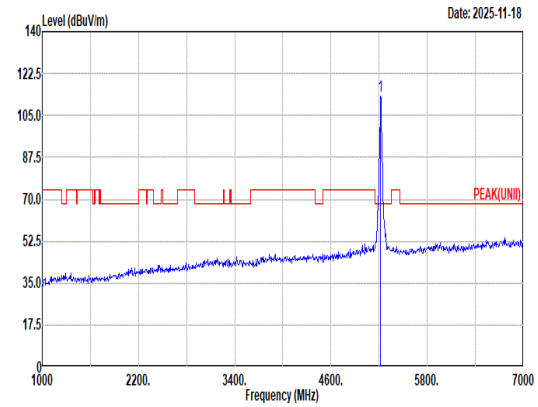
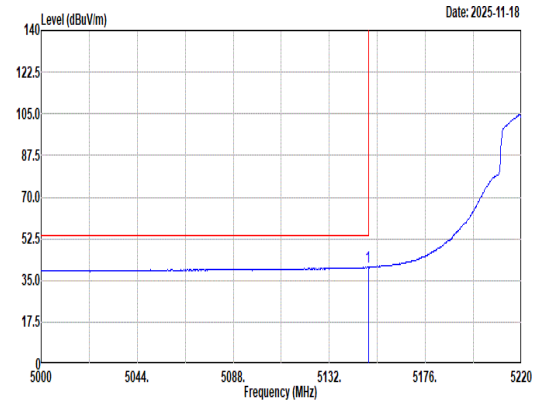
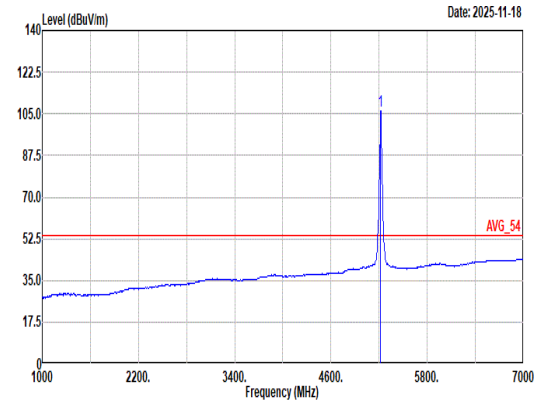
Mode	3	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL
17G ~18G Avg	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL

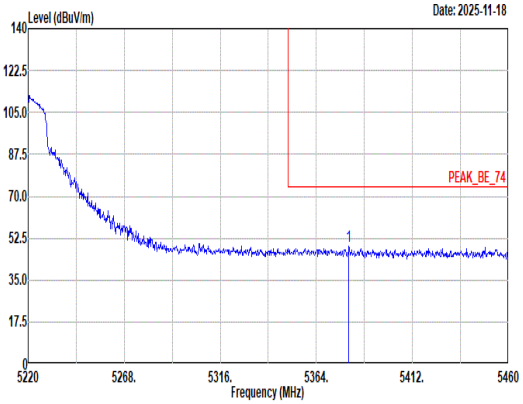
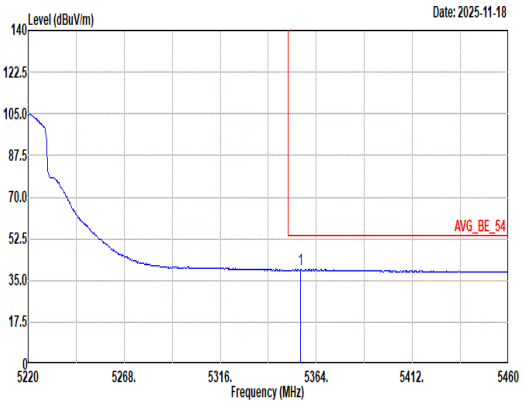
Mode	4	
	Band Edge	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5149.94 65.99 74.00 -8.01 60.21 32.90 9.73 36.85 0.00 200 266 Peak	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5180.00 112.77 ------ ------ 106.88 32.96 9.77 36.84 0.00 200 266 Peak
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.560kHz SWT:Auto 1 5149.94 52.67 54.00 -1.33 46.89 32.90 9.73 36.85 0.00 200 266 Average	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.560kHz SWT:Auto 1 5180.00 105.47 ------ ------ 99.58 32.96 9.77 36.84 0.00 200 266 Average

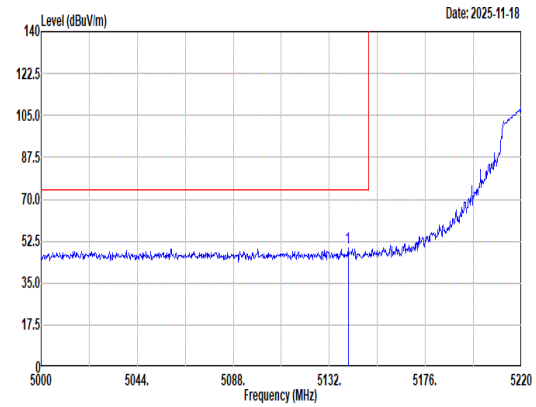
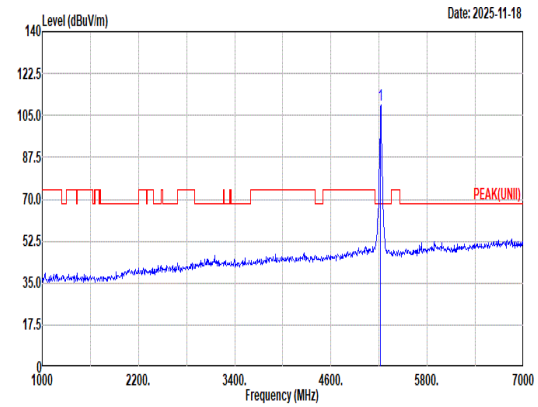
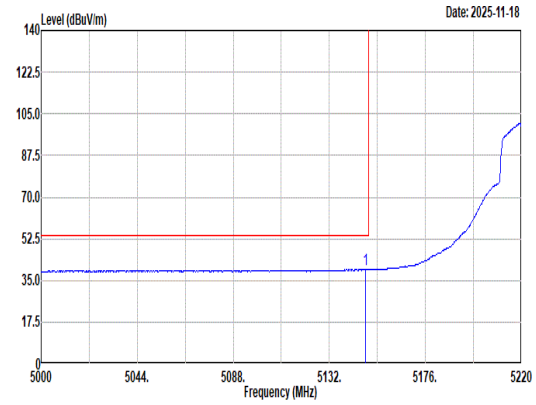
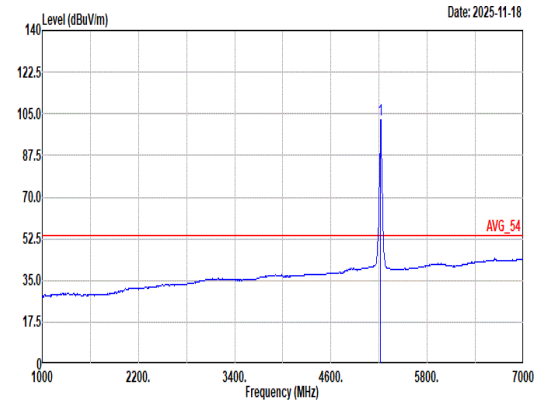
Mode	4	
	Band Edge	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5149.94 61.77 74.00 -12.23 55.99 32.90 9.73 36.85 0.00 108 218 Peak	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 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 5180.00 108.41 ------ ------ 102.54 32.95 9.76 36.84 0.00 108 218 Peak
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.560kHz 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 5149.94 49.35 54.00 -4.65 43.57 32.90 9.73 36.85 0.00 108 218 Average	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.560kHz 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 5180.00 101.94 ------ ------ 96.05 32.96 9.77 36.84 0.00 108 218 Average

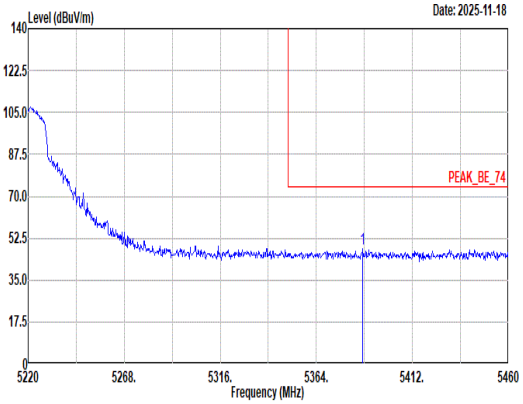
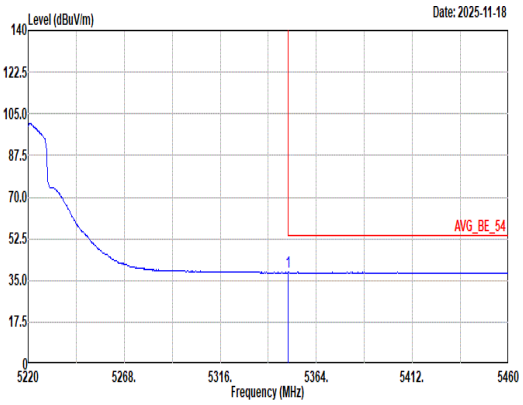
Mode	4	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10360.00 56.98 68.20 -11.22 59.59 38.70 14.82 56.75 0.62 291 271 Peak 2 15540.00 64.28 74.00 -9.72 63.38 38.20 18.36 56.23 0.57 200 93 Peak 3 15540.00 51.77 54.00 -2.23 50.87 38.20 18.36 56.23 0.57 200 93 Average	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 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 10360.00 63.32 68.20 -4.88 65.93 38.70 14.82 56.75 0.62 190 163 Peak 2 15540.00 65.39 74.00 -8.61 64.49 38.20 18.36 56.23 0.57 203 153 Peak 3 15540.00 52.06 54.00 -1.94 51.16 38.20 18.36 56.23 0.57 203 153 Average

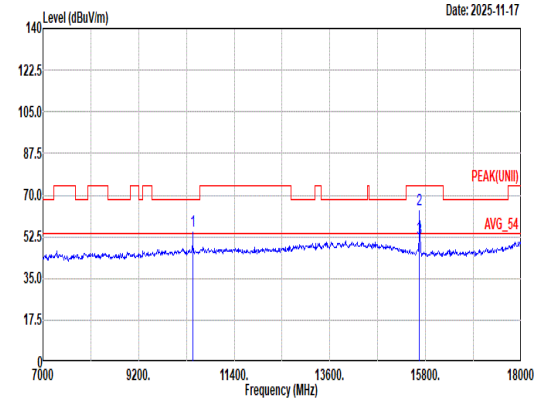
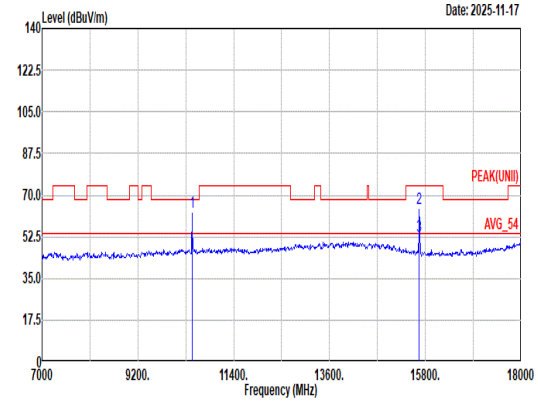
Mode	4	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL
17G ~18G Avg	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL

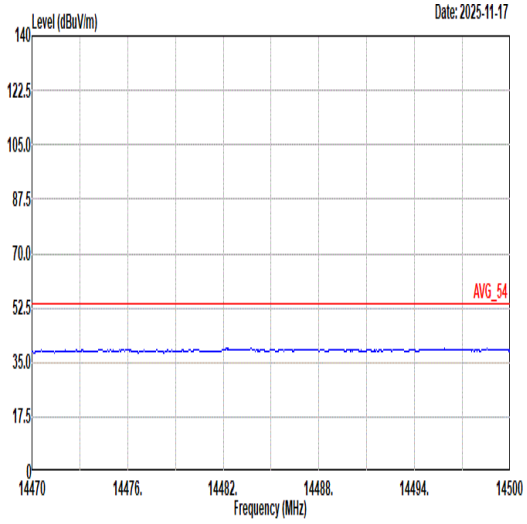
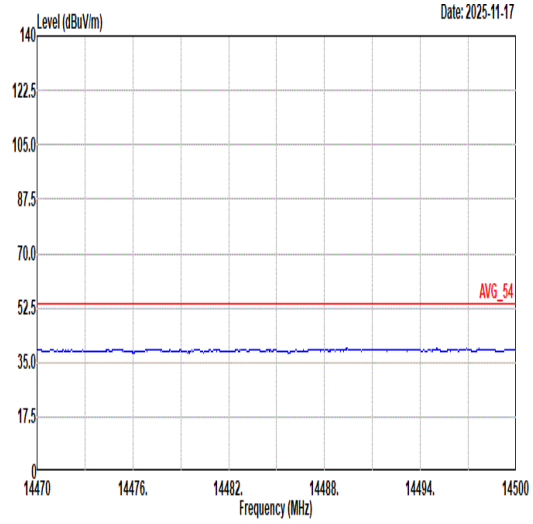
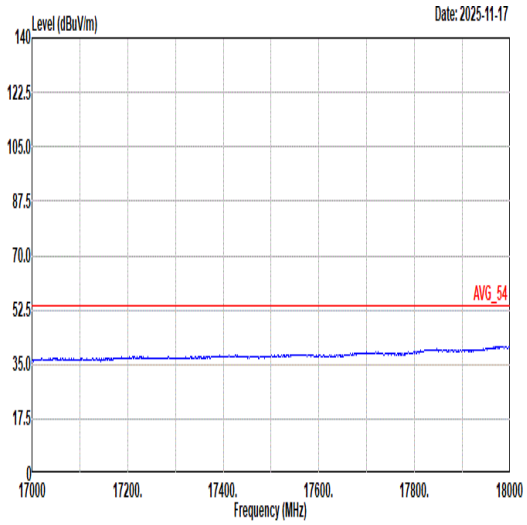
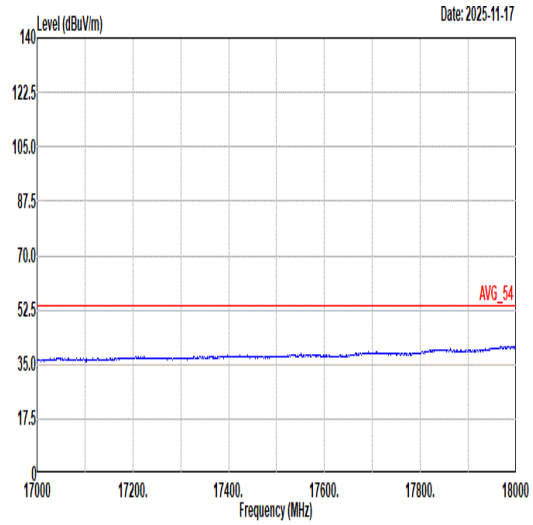
Mode	5	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5135.74 49.79 74.00 -24.21 44.05 32.87 9.72 36.85 0.00 103 173 Peak	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5220.00 112.83 ------ ------ 106.86 33.00 9.81 36.84 0.00 103 173 Peak
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.560kHz SWT:Auto 1 5149.82 40.56 54.00 -13.44 34.78 32.90 9.73 36.85 0.00 103 173 Average	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.560kHz SWT:Auto 1 5220.00 106.23 ------ ------ 100.25 33.00 9.81 36.83 0.00 103 173 Average

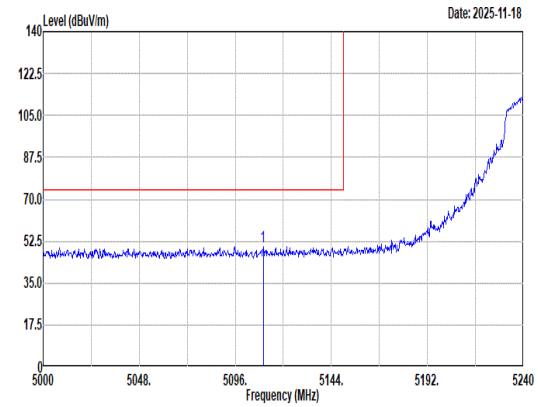
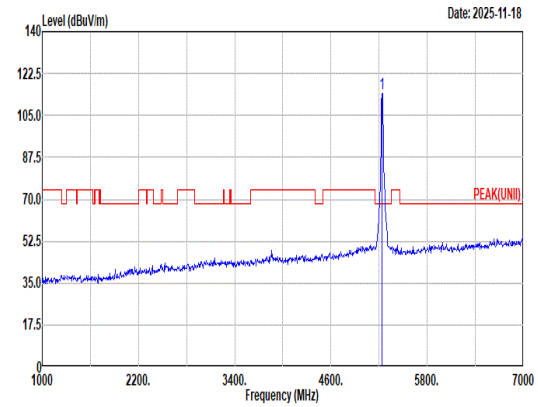
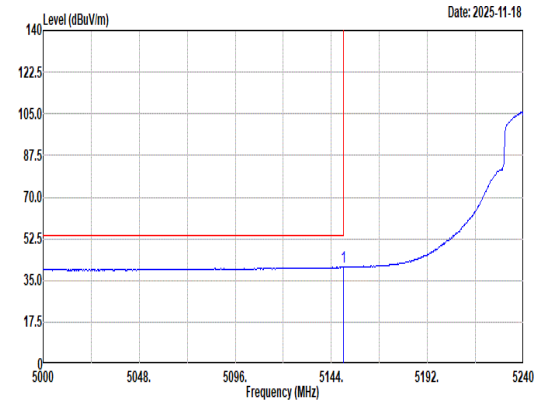
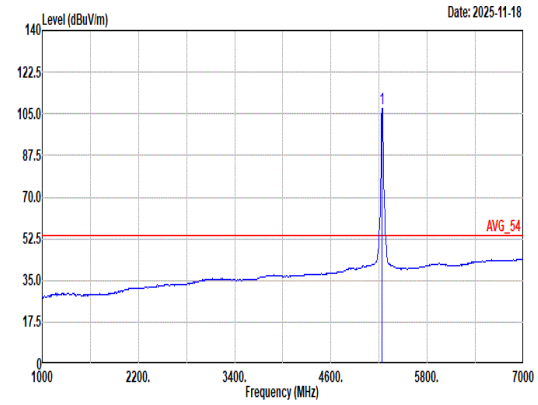
Mode	5	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5380.32 48.94 74.00 -25.06 42.88 32.90 9.97 36.81 0.00 103 173 Peak	Blank
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.560kHz 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 5356.08 39.55 54.00 -14.45 33.51 32.90 9.95 36.81 0.00 103 173 Average	Blank

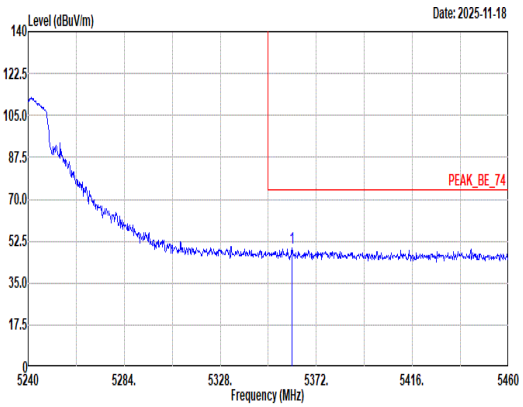
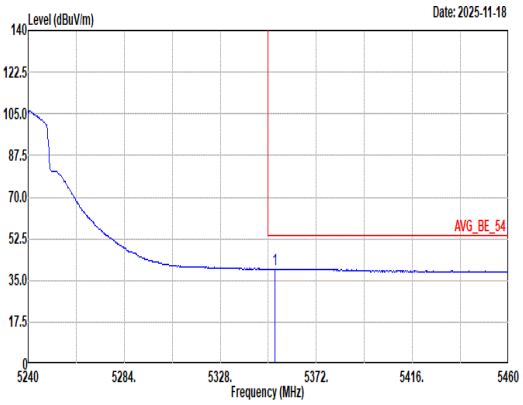
Mode	5	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5140.58 49.46 74.00 -24.54 43.71 32.88 9.72 36.85 0.00 100 221 Peak	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 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 5220.00 109.60 ------ ------ 103.62 33.00 9.81 36.83 0.00 100 221 Peak
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.560kHz 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 5148.50 39.77 54.00 -14.23 33.99 32.90 9.73 36.85 0.00 100 221 Average	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.560kHz 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 5220.00 102.57 ------ ------ 96.60 33.00 9.81 36.84 0.00 100 221 Average

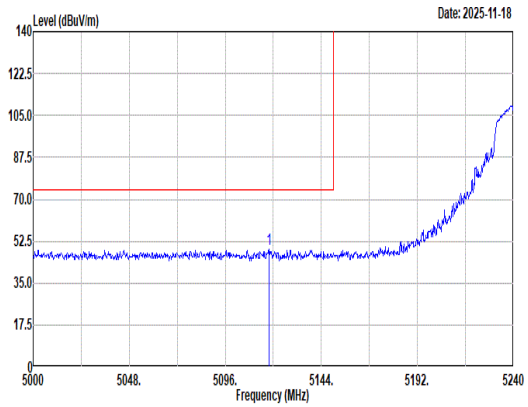
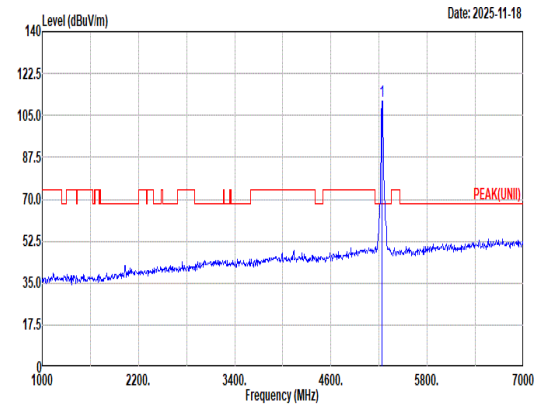
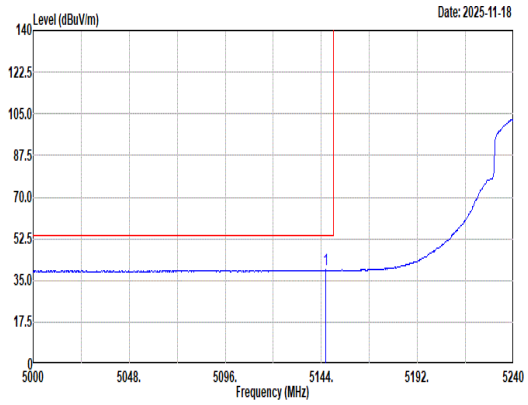
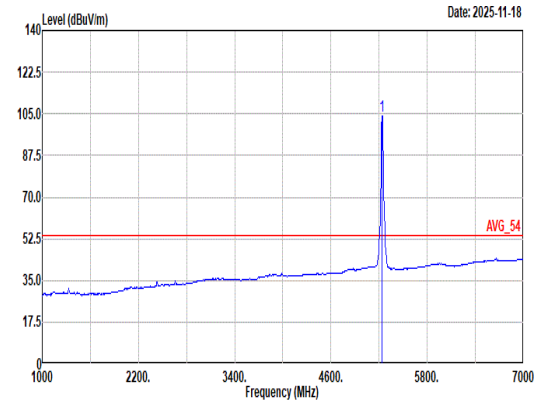
Mode	5	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5387.28 47.90 74.00 -26.10 41.83 32.90 9.98 36.81 0.00 100 221 Peak	Blank
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.560kHz 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 5350.08 38.57 54.00 -15.43 32.54 32.90 9.94 36.81 0.00 100 221 Average	Blank

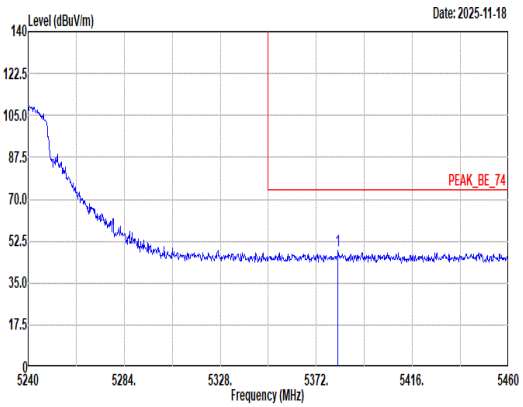
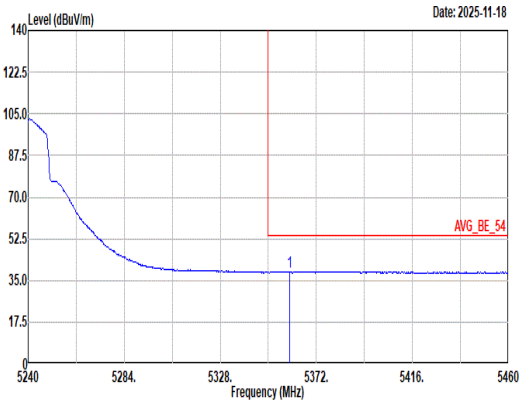
Mode	5	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10440.00 55.14 68.20 -13.06 57.61 38.70 14.88 56.66 0.61 300 272 Peak 2 15660.00 64.18 74.00 -9.82 63.60 37.72 18.42 56.11 0.55 198 93 Peak 3 15660.00 51.84 54.00 -2.16 51.26 37.72 18.42 56.11 0.55 198 93 Average	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 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 10440.00 62.70 68.20 -5.50 65.17 38.70 14.88 56.66 0.61 192 162 Peak 2 15660.00 64.69 74.00 -9.31 64.11 37.72 18.42 56.11 0.55 204 152 Peak 3 15660.00 52.89 54.00 -1.11 52.31 37.72 18.42 56.11 0.55 204 152 Average

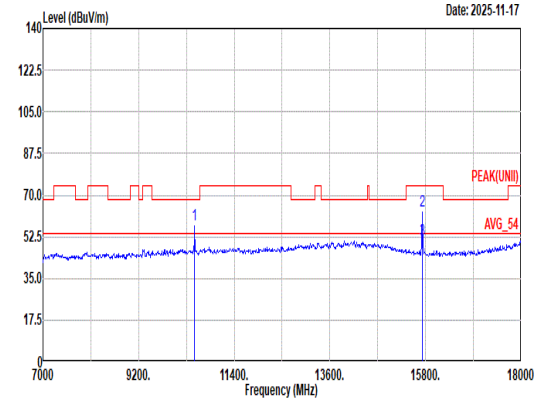
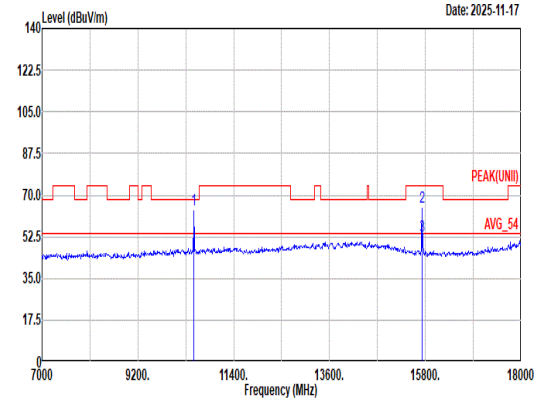
Mode	5	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL
17G ~18G Avg	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL

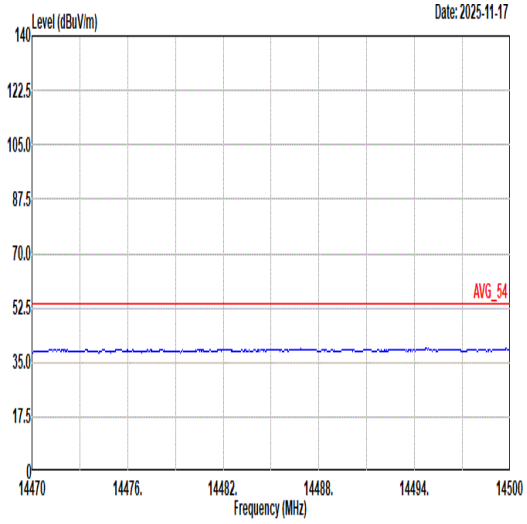
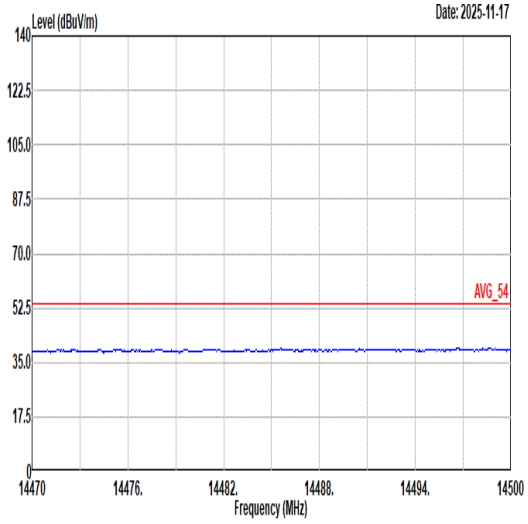
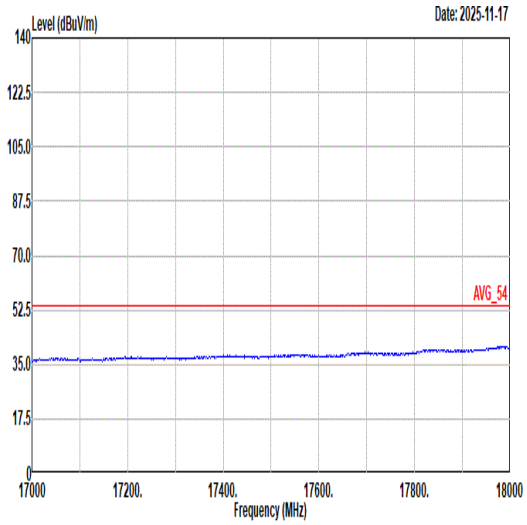
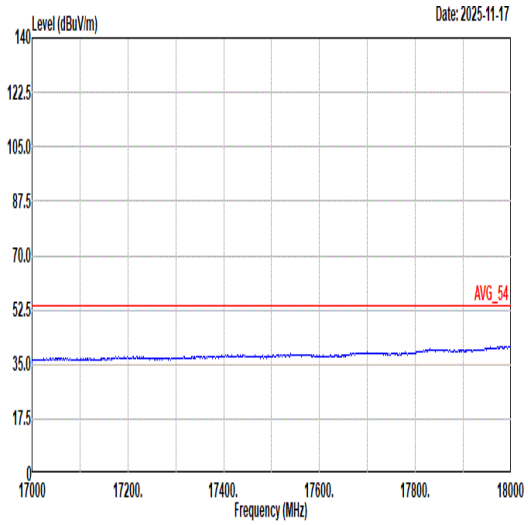
Mode	6	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT20_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5109.92 50.06 74.00 -23.94 44.40 32.82 9.69 36.85 0.00 211 259 Peak	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5240.00 114.30 ------ ------ 108.30 33.00 9.83 36.83 0.00 211 259 Peak
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.560kHz SWT:Auto 1 5150.00 40.59 54.00 -13.41 34.81 32.90 9.73 36.85 0.00 211 259 Average	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.560kHz SWT:Auto 1 5240.00 107.25 ------ ------ 101.25 33.00 9.83 36.83 0.00 211 259 Average

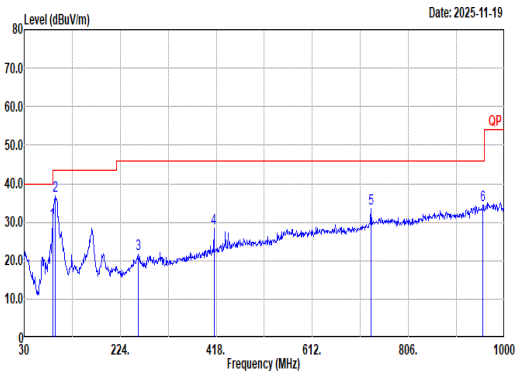
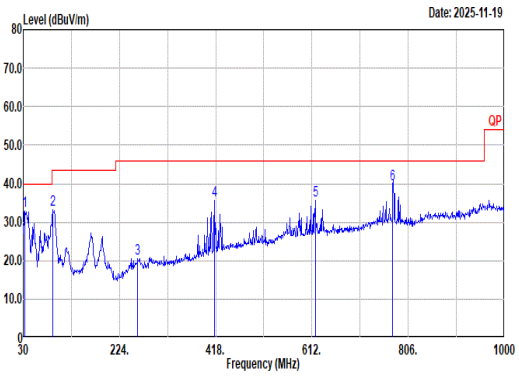
Mode	6	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT20_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5361.00 49.45 74.00 -24.55 43.41 32.90 9.95 36.81 0.00 211 259 Peak	Blank
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.560kHz 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 5353.08 39.87 54.00 -14.13 33.84 32.90 9.94 36.81 0.00 211 259 Average	Blank

Mode	6	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT20_CH48_5240MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5117.84 49.08 74.00 -24.92 43.39 32.84 9.70 36.85 0.00 165 224 Peak	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5240.00 111.14 ------ ------ 105.14 33.00 9.83 36.83 0.00 165 224 Peak
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.560kHz SWT:Auto 1 5146.16 39.37 54.00 -14.63 33.60 32.89 9.73 36.85 0.00 165 224 Average	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.560kHz SWT:Auto 1 5240.00 104.19 ------ ------ 98.19 33.00 9.83 36.83 0.00 165 224 Average

Mode	6	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT20_CH48_5240MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_9120D_1326 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 5381.90 48.42 74.00 -25.58 42.36 32.90 9.97 36.81 0.00 165 224 Peak	Blank
Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000kHz VBW:0.560kHz 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 5359.90 38.77 54.00 -15.23 32.73 32.90 9.95 36.81 0.00 165 224 Average	Blank

Mode	6	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 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 10480.00 57.70 68.20 -10.50 60.11 38.70 14.91 56.62 0.60 300 272 Peak 2 15720.00 63.56 74.00 -10.44 62.77 37.84 18.46 56.05 0.54 199 91 Peak 3 15720.00 51.41 54.00 -2.59 50.62 37.84 18.46 56.05 0.54 199 91 Average	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_9120D_1326 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 10480.00 63.81 68.20 -4.39 66.22 38.70 14.91 56.62 0.60 191 162 Peak 2 15720.00 65.20 74.00 -8.80 64.41 37.84 18.46 56.05 0.54 203 152 Peak 3 15720.00 52.74 54.00 -1.26 51.95 37.84 18.46 56.05 0.54 203 152 Average

Mode	6	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL
17G ~18G Avg	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_9120D_1326 VERTICAL

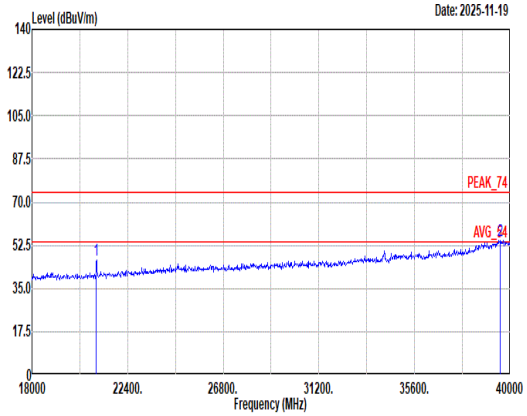
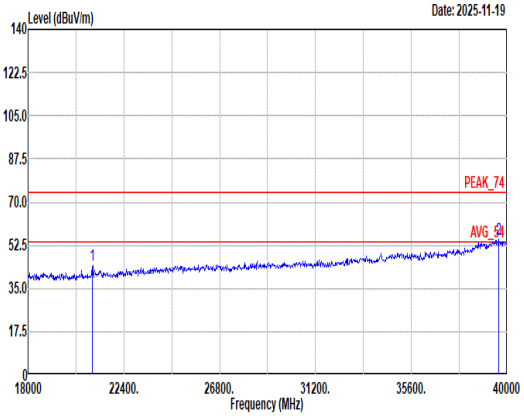
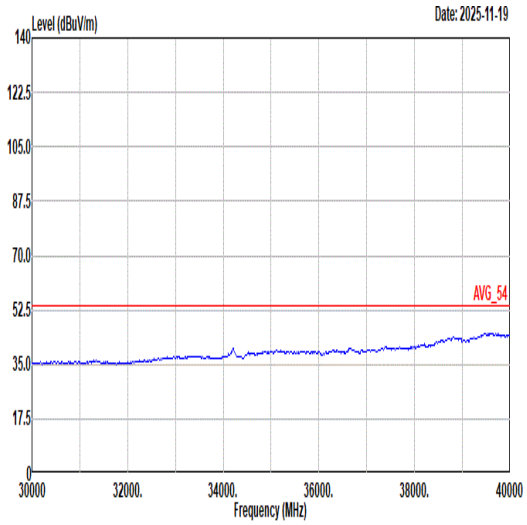
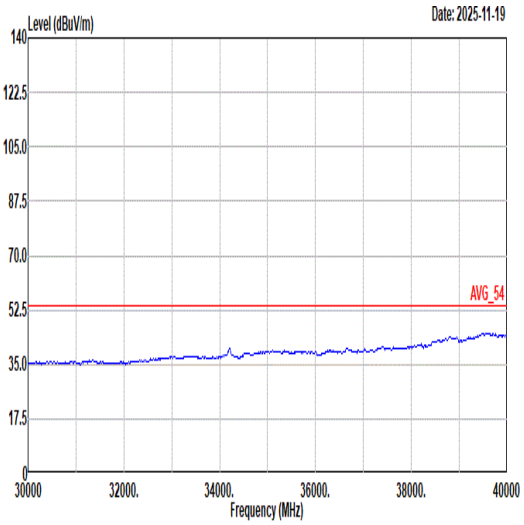
Mode	7	
	LF	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Vertical
QP/ Peak	 Site : 03CH13-HY Condition: QP 3m BILOG_40103 HORIZONTAL	 Site : 03CH13-HY Condition: QP 3m BILOG_40103 VERTICAL

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	87.23	29.75	40.00	-10.25	45.83	14.54	1.23	31.93	0.08	--	--	Peak
2	93.05	36.89	43.50	-6.61	52.30	15.18	1.28	31.94	0.07	--	--	Peak
3	259.89	21.62	46.00	-24.38	31.01	20.10	2.13	31.74	0.12	--	--	Peak
4	413.15	28.32	46.00	-17.68	35.02	22.20	2.68	31.68	0.10	--	--	Peak
5	730.34	33.48	46.00	-12.52	33.58	27.84	3.59	31.67	0.14	--	--	Peak
6	956.35	34.51	46.00	-11.49	29.99	30.84	4.08	30.61	0.21	--	--	Peak

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	32.91	32.83	40.00	-7.17	41.00	22.95	0.80	32.00	0.08	--	--	Peak
2	89.17	33.27	43.50	-10.23	49.08	14.80	1.25	31.94	0.08	--	--	Peak
3	260.86	20.64	46.00	-25.36	29.98	20.15	2.13	31.74	0.12	--	--	Peak
4	415.09	35.74	46.00	-10.26	42.39	22.25	2.69	31.69	0.10	--	--	Peak
5	618.79	35.77	46.00	-10.23	38.06	26.10	3.30	31.82	0.13	--	--	Peak
6	774.96	39.80	46.00	-6.20	39.17	28.40	3.69	31.61	0.15	--	--	Peak

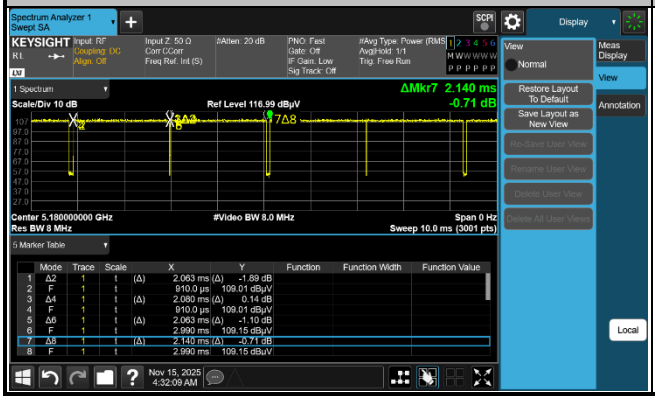
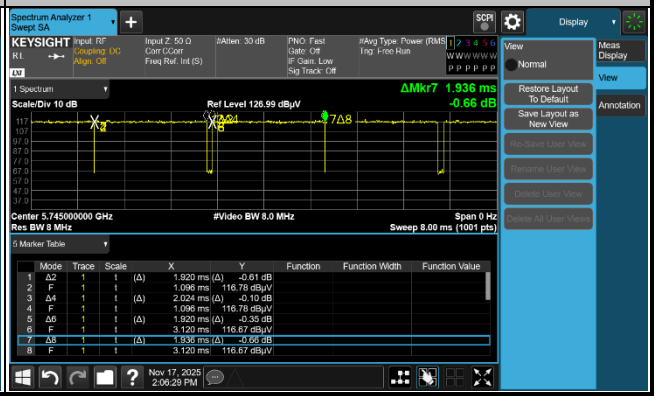
Mode	8	
	SHF	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH13-HY Condition: PEAK_74 1m SHF_1225 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 20960.00 46.49 74.00 -27.51 48.07 38.10 24.61 54.75 -9.54 -- -- Peak 2 39538.00 54.53 74.00 -19.47 39.54 46.00 34.98 56.45 -9.54 -- -- Peak	 Site : 03CH13-HY Condition: PEAK_74 1m SHF_1225 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 20960.00 44.28 74.00 -29.72 45.86 38.10 24.61 54.75 -9.54 -- -- Peak 2 39604.00 54.86 74.00 -19.14 39.48 46.26 35.01 56.35 -9.54 -- -- Peak
Avg	 Site : 03CH13-HY Condition: 1m SHF_1225 HORIZONTAL	 Site : 03CH13-HY Condition: 1m SHF_1225 VERTICAL

Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	96.40	2063	0.48	510Hz
1	5GHz 802.11n HT20	94.86	1920	0.52	560Hz

SISO <Ant. 1>

802.11a



5GHz 802.11n HT20