FCC RADIO TEST REPORT

FCC ID	:	**SZG-G99E5**
Equipment	:	**Wireless Device**
Model Name	:	**G99E5**
Applicant	:	**Weifang Goertek Electronics Co., Ltd Gaoxin 2 Road, Free Trade Zone, Weifang, Shandong, 261205, P.R.China**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on May 23, 2025 and testing was performed from May 27, 2025 to Jun. 12, 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.)

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History of this test report

Report No.	Version	Description	Issue Date
FR550853F	01	Initial issue of report	Jun. 25, 2025
FR550853F	02	Revise List of Measuring Equipment This report is an updated version, replacing the report issued on Jun. 25, 2025.	Jul. 10, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403	6dB & 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: Avis Chuang

Report Producer: Clio Lo

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth, BLE, Thread and Wi-Fi 802.11ax. **Antenna Type** WLAN: PCB Antenna

EUT Information List	
S/N	**Performed Test Item**
1Y7G6501600802M154JS0801	RF Conducted Measurement
5421FATPSN0381 (#6)	Radiated Spurious Emission
5421FATPSN0415 (#8)	Conducted Emission

Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	6.1

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, CO07-HY, 03CH21-HY

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

FCC designation No.: TW3786

1.4 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

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)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

Note:

1. The above Frequency and Channel with "*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel with "#" are 802.11ac VHT80 and 802.11ax HE80.

2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

The power for 802.11ac mode is smaller than 802.11n mode, so all other conducted and radiated test is covered by 802.11n mode.

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

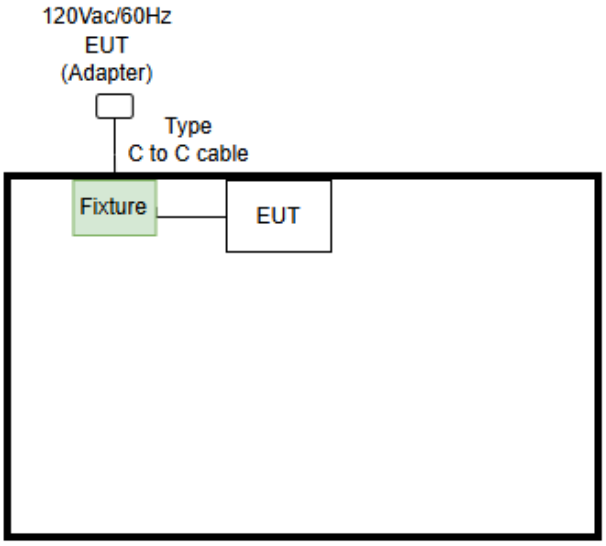
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Test Cases	
AC Conducted Emission	Mode 1: WLAN (5GHz) 11a TX + AC Adapter

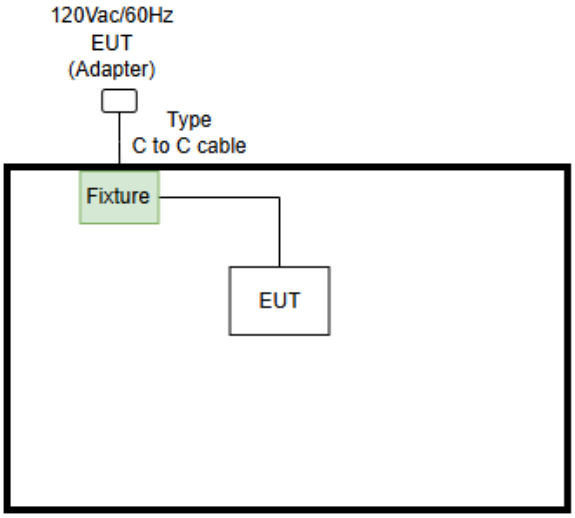
Remark:
1. The detailed Radiated test modes are shown in Appendix C.
2. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Type C to C cable	Cable Tech	G021A, GV4U8	N/A	N/A	Shielded, 1.0m
2.	Fixture	Goertek	DG01	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “ADB v1.0.40” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

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 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

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

26dB and 99% Occupied bandwidth are reporting only.

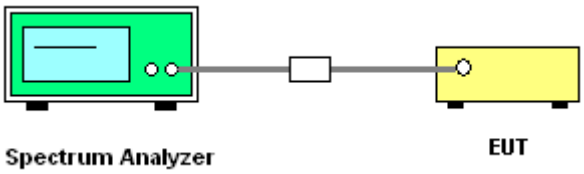
3.1.2 Measuring Instruments

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 for the band 5.725-5.85 GHz
2. Set RBW = 100 kHz.
3. Set the VBW ≥ 3 x RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 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.

3.2.2 Measuring Instruments

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

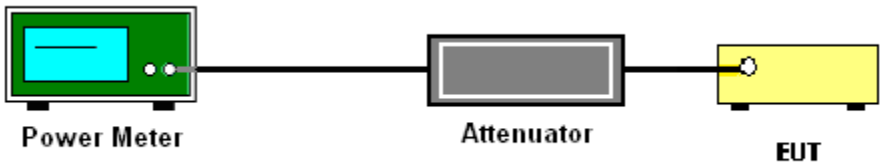
3.2.3 Test Procedures

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

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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.

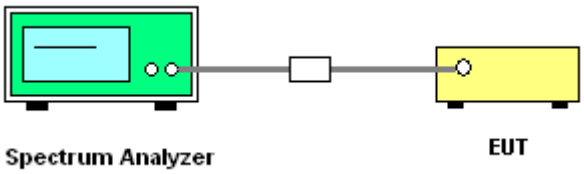
 # Method SA-2 #

(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 = 300kHz.
- Set VBW ≥ 1 MHz.
- Add 10 log (500 kHz/RBW) to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
- 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

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(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) Use the following spectrum analyzer settings:

   For average measurement:

   The procedure for method trace averaging is as follows:

   a) RBW = 1 MHz.
   b) VBW ≥ [3 × RBW].
   c) Detector = RMS (power averaging), if [span / (# of points in sweep)] ≤ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
   d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging.
   e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / *D*, where *D* is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / *D*)], where *D* is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

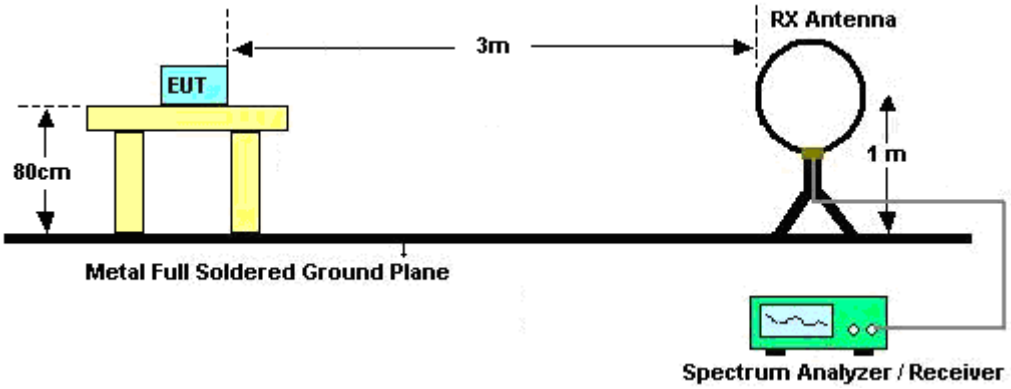
2) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

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.

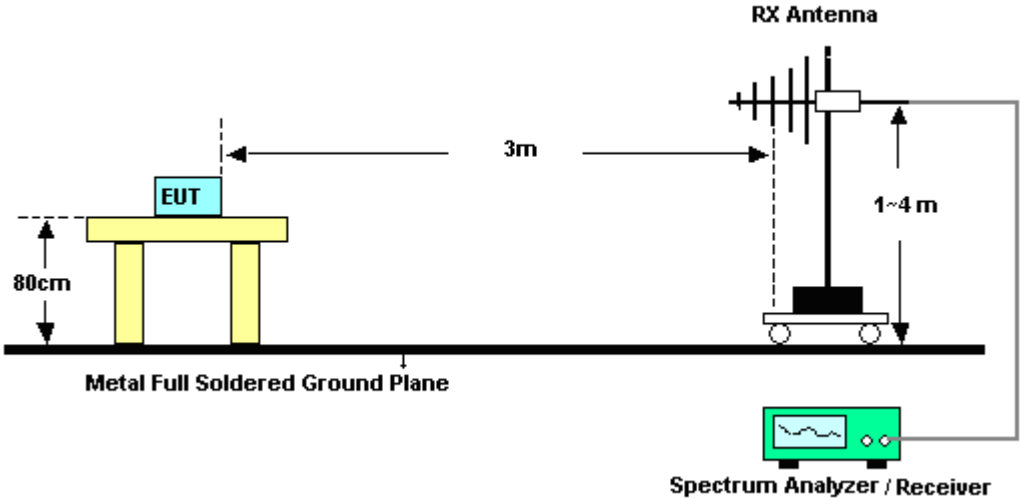
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit 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

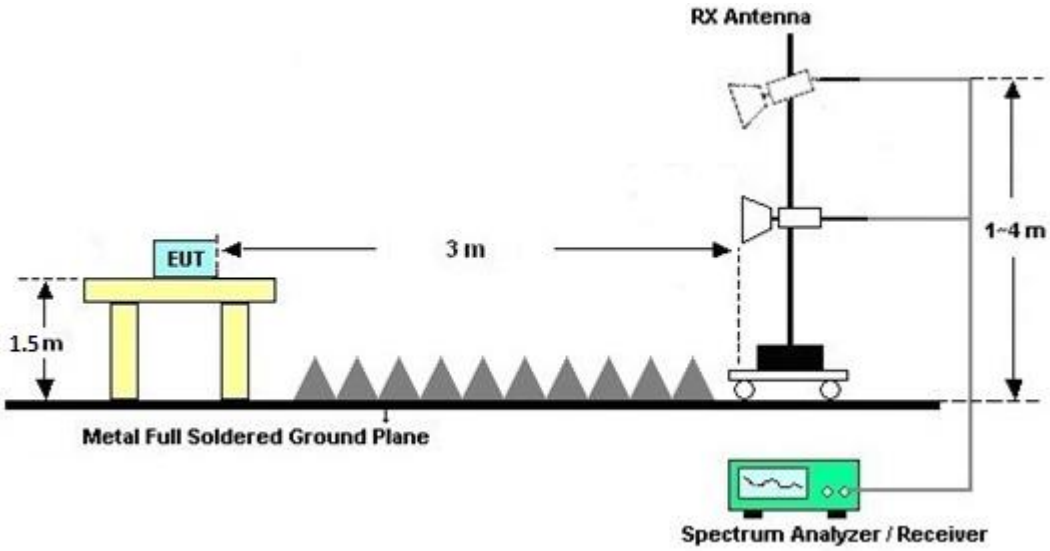
For radiated emissions below 30MHz



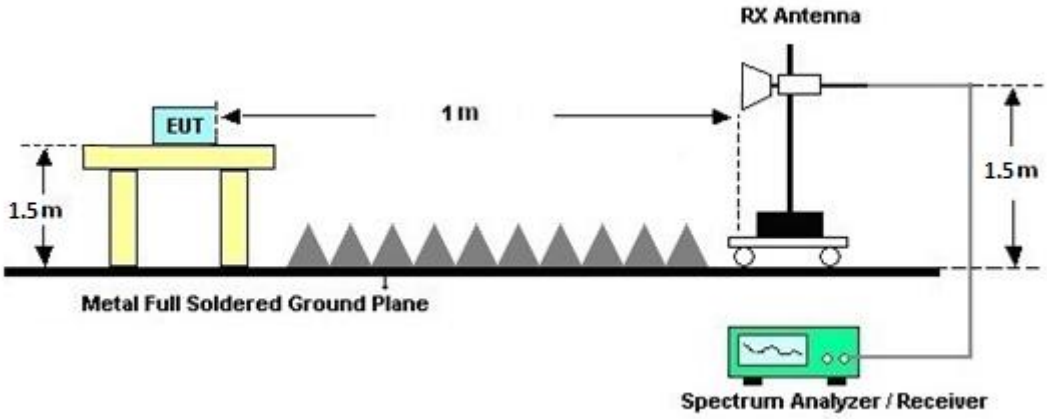
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.4.5 Test Results of Radiated 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 Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Unwanted Radiated Emission (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.

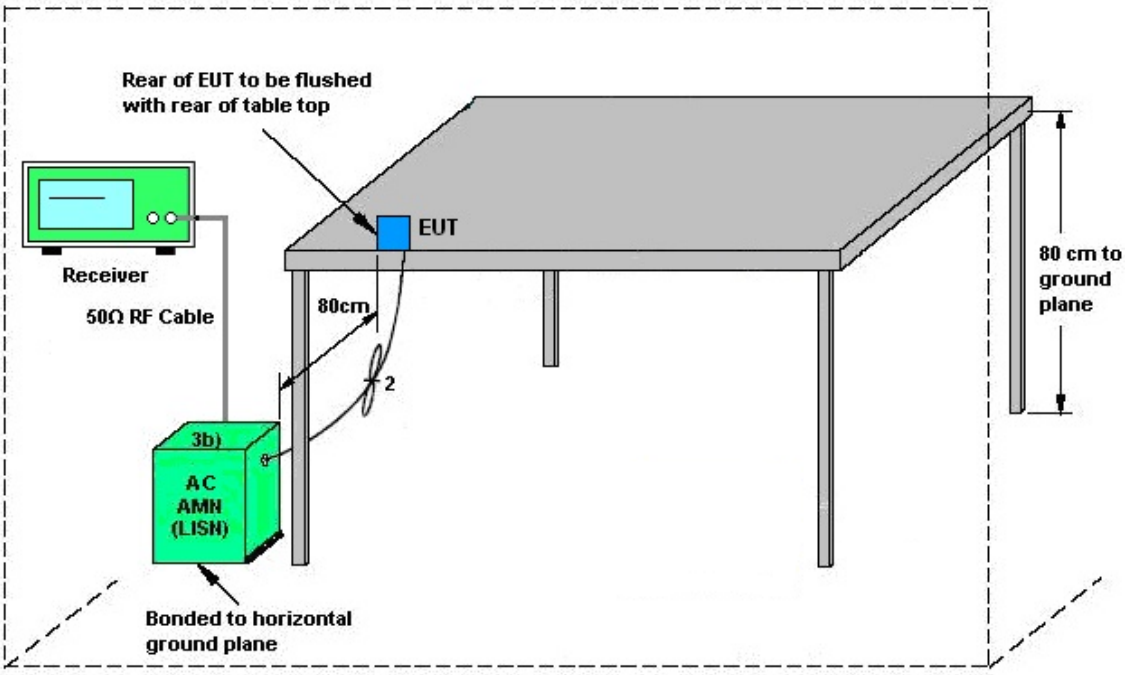
3.5.2 Measuring Instruments

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



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

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

Antenna permanently attached.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	May 28, 2025~ Jun. 06, 2025	Aug. 28, 2025	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Dec. 17, 2024	May 28, 2025~ Jun. 06, 2025	Dec. 16, 2025	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18EN	1GHz~18GHz	Jul. 11, 2024	May 28, 2025~ Jun. 06, 2025	Jul. 10, 2025	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jun. 24, 2024	May 28, 2025~ Jun. 06, 2025	Jun. 23, 2025	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 14, 2024	May 28, 2025~ Jun. 06, 2025	Jul. 13, 2025	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 27, 2024	May 28, 2025~ Jun. 06, 2025	Sep. 26, 2025	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Sep. 02, 2024	May 28, 2025~ Jun. 06, 2025	Sep. 01, 2025	Radiation (03CH21-HY)
Spectrum Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Sep. 06, 2024	May 28, 2025~ Jun. 06, 2025	Sep. 05, 2025	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	May 28, 2025~ Jun. 06, 2025	Mar. 04, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,804612/2,803954/2	30MHz~40GHz	Aug. 12, 2024	May 28, 2025~ Jun. 06, 2025	Aug. 11, 2025	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2024	May 28, 2025~ Jun. 06, 2025	Oct. 20, 2025	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	May 28, 2025~ Jun. 06, 2025	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	May 28, 2025~ Jun. 06, 2025	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	May 28, 2025~ Jun. 06, 2025	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	May 28, 2025~ Jun. 06, 2025	N/A	Radiation (03CH21-HY)
Notch Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN28	1.53GHz Low Pass Filter	May 21, 2025	May 28, 2025~ Jun. 06, 2025	May 20, 2026	Radiation (03CH21-HY)
Notch Filter	Wainwright	WHKX8-6090-7000-18000-40SS	SN98	7GHz High Pass Filter	Dec. 25, 2024	May 28, 2025~ Jun. 06, 2025	Dec. 24, 2025	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	May 27, 2025~ Jun. 09, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	May 27, 2025~ Jun. 09, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	May 27, 2025~ Jun. 09, 2025	Aug. 22, 2025	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	May 27, 2025~ Jun. 09, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	May 27, 2025~ Jun. 09, 2025	N/A	Conducted (TH05-HY)

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

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.5 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))	5.0 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.7 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.3 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Benny Ku	Temperature:	21~25	°C
Test Date:	2025/5/27~2025/6/9	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

U-NII-3 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	-	16.81	-	20.01	-	16.35	0.5	Pass
11a	6Mbps	1	157	5785	-	16.79	-	20.05	-	16.35	0.5	Pass
11a	6Mbps	1	165	5825	-	16.81	-	19.98	-	16.34	0.5	Pass
HT20	MCS0	1	149	5745	-	17.70	-	20.54	-	17.30	0.5	Pass
HT20	MCS0	1	157	5785	-	17.70	-	20.37	-	17.06	0.5	Pass
HT20	MCS0	1	165	5825	-	17.71	-	20.52	-	17.28	0.5	Pass
HT40	MCS0	1	151	5755	-	36.76	-	58.40	-	35.53	0.5	Pass
HT40	MCS0	1	159	5795	-	36.67	-	57.47	-	35.67	0.5	Pass
VHT80	MCS0	1	155	5775	-	76.34	-	82.05	-	76.35	0.5	Pass

Report Number : FR550853F

TEST RESULTS DATA
Average Power Table

U-NII-3 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	-	16.90		-	29.90	-	6.10	Pass
11a	6Mbps	1	157	5785	-	16.90		-	29.90	-	6.10	Pass
11a	6Mbps	1	165	5825	-	17.00		-	29.90	-	6.10	Pass
HT20	MCS0	1	149	5745	-	16.90		-	29.90	-	6.10	Pass
HT20	MCS0	1	157	5785	-	16.90		-	29.90	-	6.10	Pass
HT20	MCS0	1	165	5825	-	17.00		-	29.90	-	6.10	Pass
HT40	MCS0	1	151	5755	-	17.00		-	29.90	-	6.10	Pass
HT40	MCS0	1	159	5795	-	16.50		-	29.90	-	6.10	Pass
VHT20	MCS0	1	149	5745	-	15.90		-	29.90	-	6.10	Pass
VHT20	MCS0	1	157	5785	-	15.90		-	29.90	-	6.10	Pass
VHT20	MCS0	1	165	5825	-	16.00		-	29.90	-	6.10	Pass
VHT40	MCS0	1	151	5755	-	16.00		-	29.90	-	6.10	Pass
VHT40	MCS0	1	159	5795	-	15.50		-	29.90	-	6.10	Pass
VHT80	MCS0	1	155	5775	-	15.00		-	29.90	-	6.10	Pass

Report Number : FR550853F

TEST RESULTS DATA
Power Spectral Density

U-NII-3 single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	-	0.05	-	1.65		-	29.90	-	6.10	Pass
11a	6Mbps	1	157	5785	-	0.05	-	1.47		-	29.90	-	6.10	Pass
11a	6Mbps	1	165	5825	-	0.05	-	2.09		-	29.90	-	6.10	Pass
HT20	MCS0	1	149	5745	-	0.05	-	1.09		-	29.90	-	6.10	Pass
HT20	MCS0	1	157	5785	-	0.05	-	1.59		-	29.90	-	6.10	Pass
HT20	MCS0	1	165	5825	-	0.05	-	1.76		-	29.90	-	6.10	Pass
HT40	MCS0	1	151	5755	-	0.10	-	-1.01		-	29.90	-	6.10	Pass
HT40	MCS0	1	159	5795	-	0.10	-	-1.16		-	29.90	-	6.10	Pass
VHT80	MCS0	1	155	5775	-	0.20	-	-6.41		-	29.90	-	6.10	Pass

Report Number : FR550853F

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

U-NII-3 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	149	5745	Full	-	18.79	-	20.57	-	18.19	0.5	Pass
HE20	MCS0	1	157	5785	Full	-	18.78	-	20.55	-	18.35	0.5	Pass
HE20	MCS0	1	165	5825	Full	-	18.79	-	20.57	-	18.37	0.5	Pass
HE40	MCS0	1	151	5755	Full	-	37.77	-	41.30	-	37.13	0.5	Pass
HE40	MCS0	1	159	5795	Full	-	37.80	-	41.52	-	36.92	0.5	Pass
HE80	MCS0	1	155	5775	Full	-	77.62	-	80.77	-	78.10	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	149	5745	Full	-	16.00		-	29.90	-	6.10	Pass
HE20	MCS0	1	149	5745	26/0	-	6.20		-	29.90	-	6.10	Pass
HE20	MCS0	1	149	5745	52/37	-	9.10		-	29.90	-	6.10	Pass
HE20	MCS0	1	149	5745	106/53	-	12.40		-	29.90	-	6.10	Pass
HE20	MCS0	1	157	5785	Full	-	16.00		-	29.90	-	6.10	Pass
HE20	MCS0	1	157	5785	26/4	-	6.90		-	29.90	-	6.10	Pass
HE20	MCS0	1	157	5785	52/38	-	8.90		-	29.90	-	6.10	Pass
HE20	MCS0	1	157	5785	106/53	-	12.30		-	29.90	-	6.10	Pass
HE20	MCS0	1	165	5825	Full	-	16.50		-	29.90	-	6.10	Pass
HE20	MCS0	1	165	5825	26/8	-	6.60		-	29.90	-	6.10	Pass
HE20	MCS0	1	165	5825	52/40	-	9.40		-	29.90	-	6.10	Pass
HE20	MCS0	1	165	5825	106/54	-	12.70		-	29.90	-	6.10	Pass
HE40	MCS0	1	151	5755	Full	-	16.00		-	29.90	-	6.10	Pass
HE40	MCS0	1	159	5795	Full	-	16.00		-	29.90	-	6.10	Pass
HE80	MCS0	1	155	5775	Full	-	15.50		-	29.90	-	6.10	Pass

Report Number : FR550853F

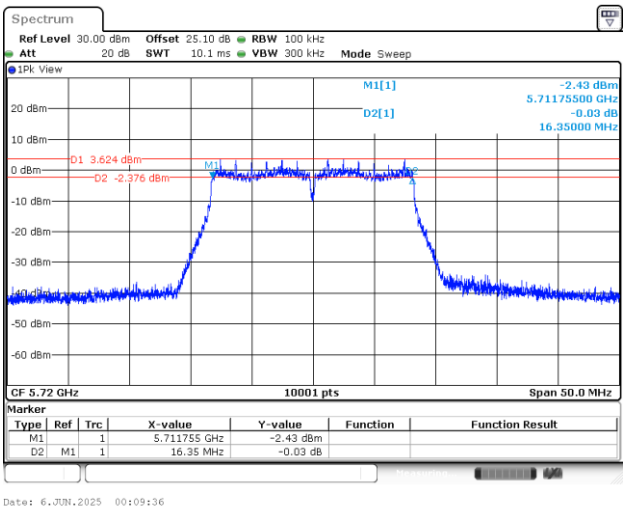
TEST RESULTS DATA
Power Spectral Density

U-NII-3 single antenna															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	149	5745	Full	-	0.06	-	0.66		-	29.90	-	6.10	Pass
HE20	MCS0	1	149	5745	26/0	-	0.21	-	0.25		-	29.90	-	6.10	Pass
HE20	MCS0	1	149	5745	52/37	-	0.21	-	0.20		-	29.90	-	6.10	Pass
HE20	MCS0	1	149	5745	106/53	-	0.21	-	0.36		-	29.90	-	6.10	Pass
HE20	MCS0	1	157	5785	Full	-	0.06	-	0.48		-	29.90	-	6.10	Pass
HE20	MCS0	1	157	5785	26/4	-	0.21	-	0.13		-	29.90	-	6.10	Pass
HE20	MCS0	1	157	5785	52/38	-	0.21	-	-0.09		-	29.90	-	6.10	Pass
HE20	MCS0	1	157	5785	106/53	-	0.21	-	0.24		-	29.90	-	6.10	Pass
HE20	MCS0	1	165	5825	Full	-	0.06	-	1.13		-	29.90	-	6.10	Pass
HE20	MCS0	1	165	5825	26/8	-	0.21	-	0.65		-	29.90	-	6.10	Pass
HE20	MCS0	1	165	5825	52/40	-	0.21	-	0.83		-	29.90	-	6.10	Pass
HE20	MCS0	1	165	5825	106/54	-	0.21	-	0.98		-	29.90	-	6.10	Pass
HE40	MCS0	1	151	5755	Full	-	0.12	-	-2.31		-	29.90	-	6.10	Pass
HE40	MCS0	1	159	5795	Full	-	0.12	-	-1.82		-	29.90	-	6.10	Pass
HE80	MCS0	1	155	5775	Full	-	0.23	-	-5.55		-	29.90	-	6.10	Pass

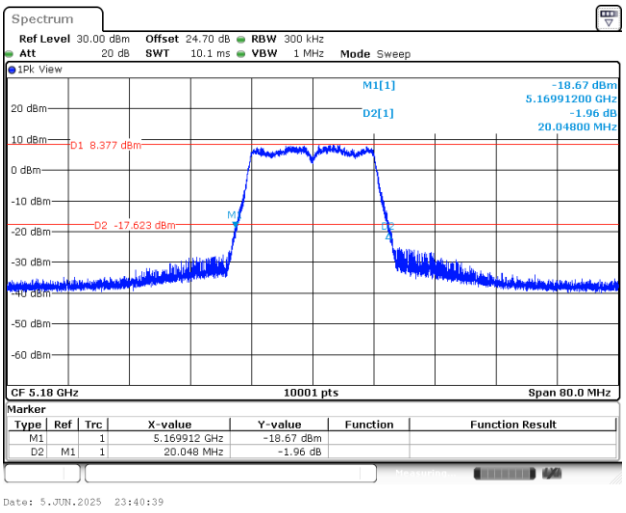
Test Result of 6dB and 26dB and 99% Occupied Bandwidth

<802.11a>

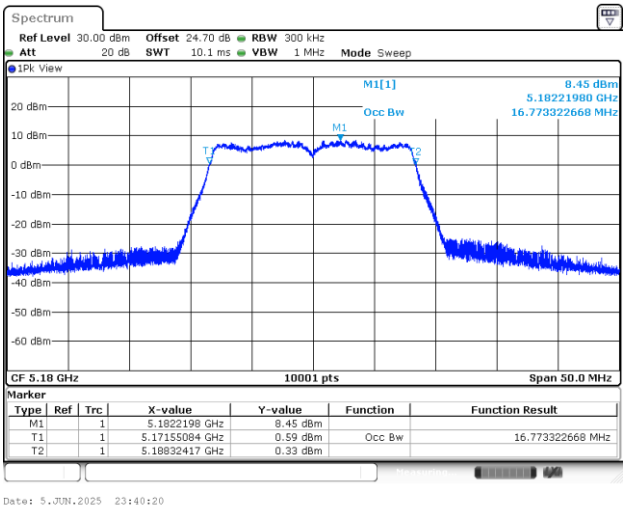
6dB Bandwidth



26dB Bandwidth

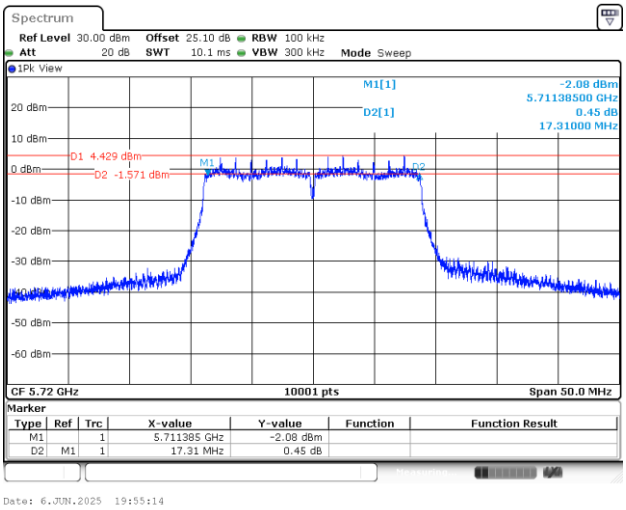
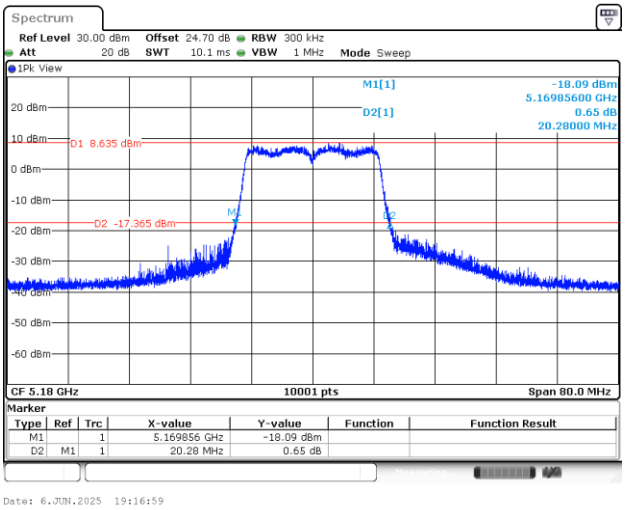


99% Occupied Bandwidth



N/A

<802.11an HT20>

6dB Bandwidth	26dB Bandwidth
	
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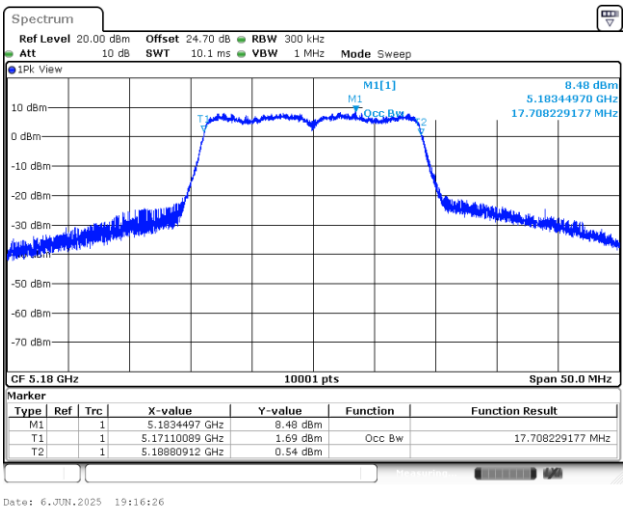
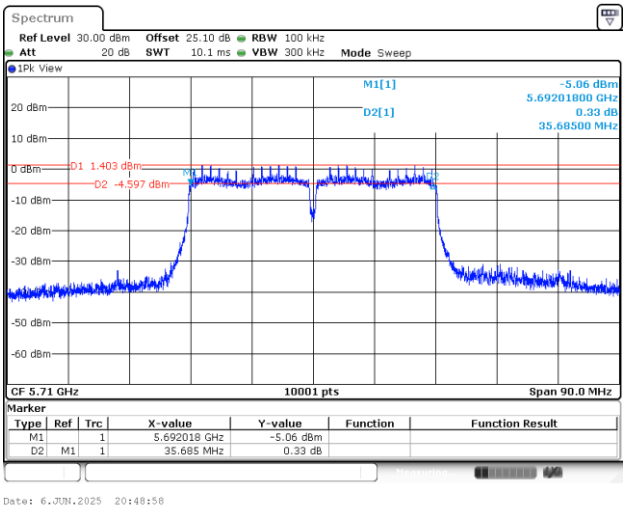
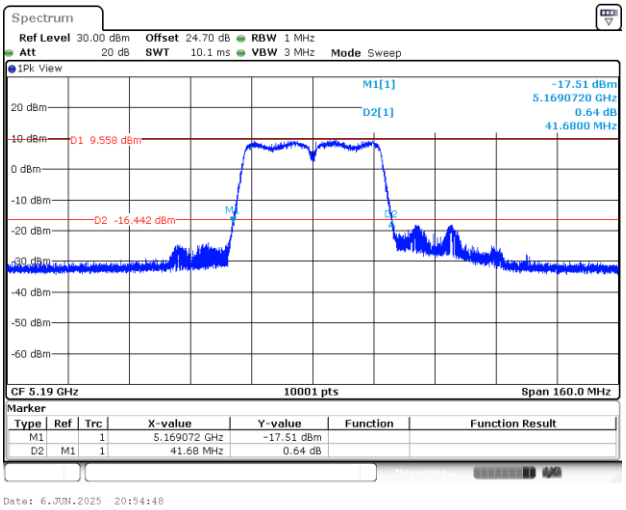
	

<802.11an HT40>

6dB Bandwidth	26dB Bandwidth
	
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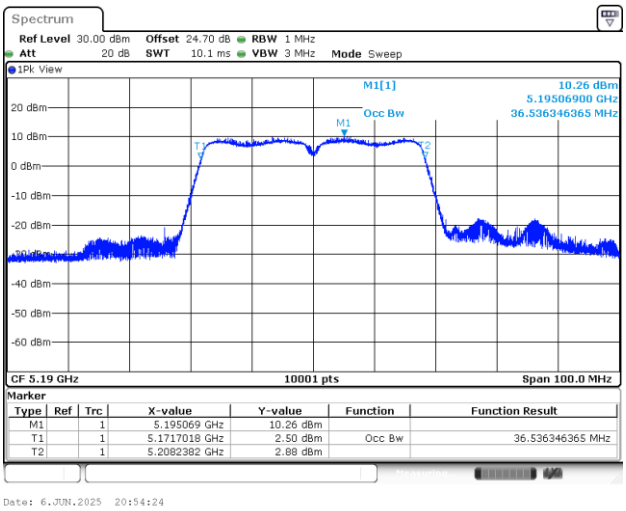
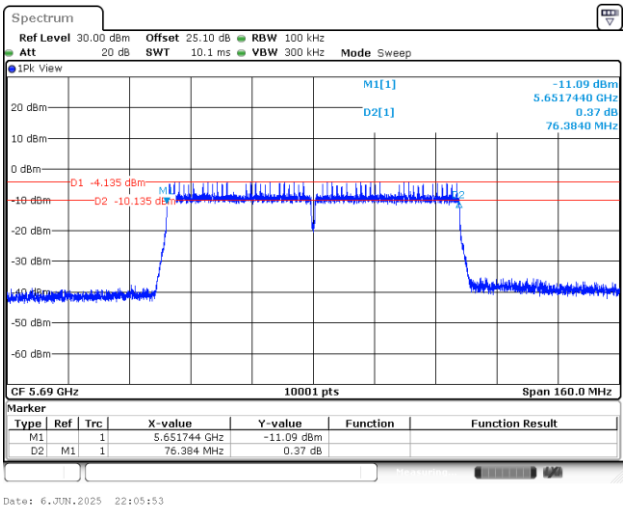
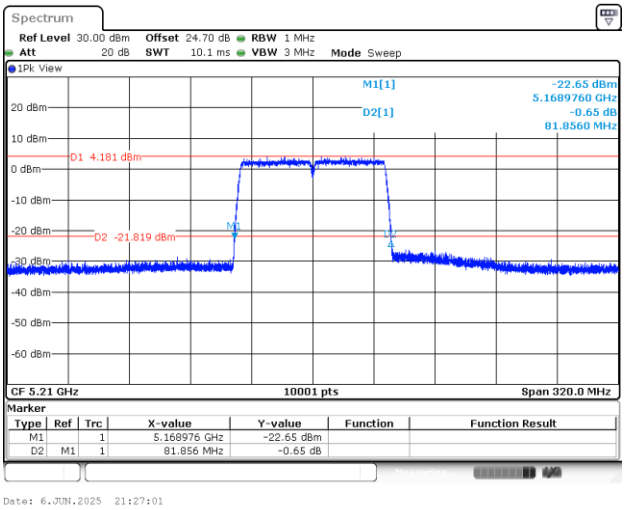
	

<802.11ac VHT80>

6dB Bandwidth	26dB Bandwidth
	
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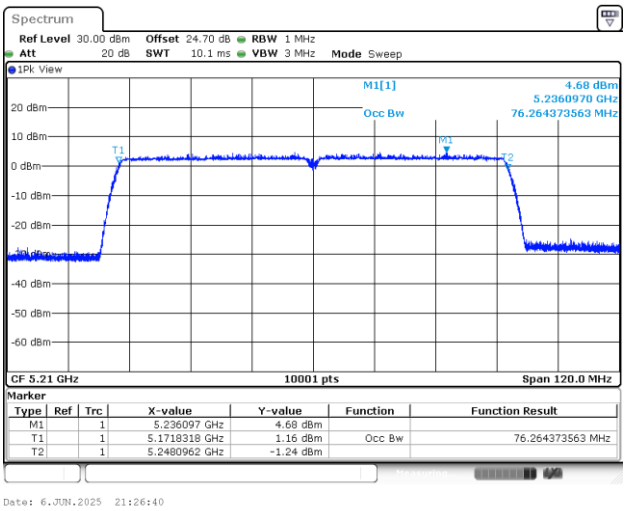
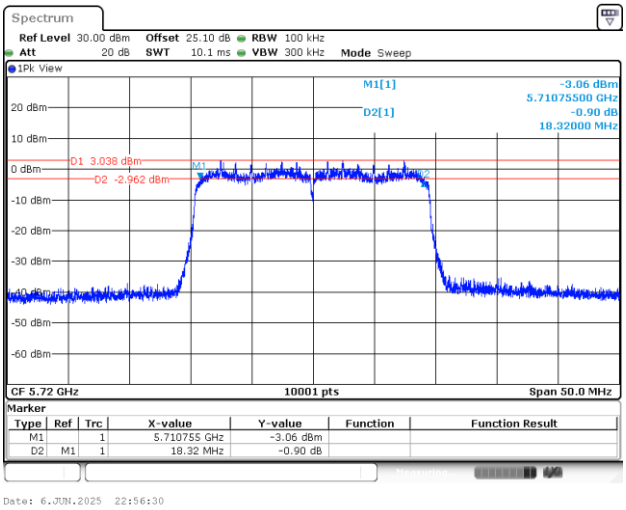
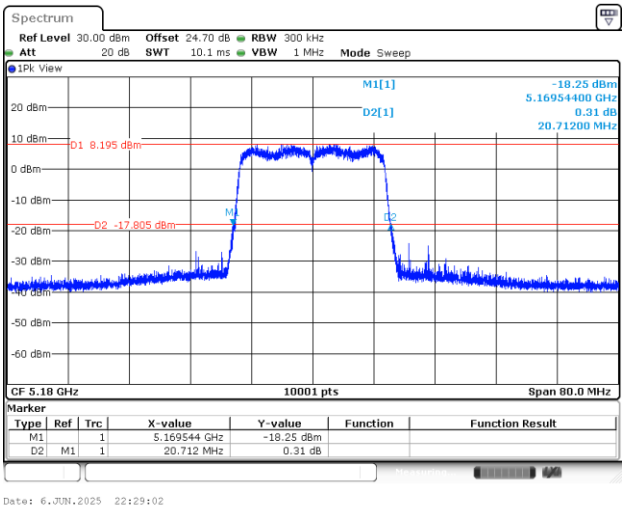
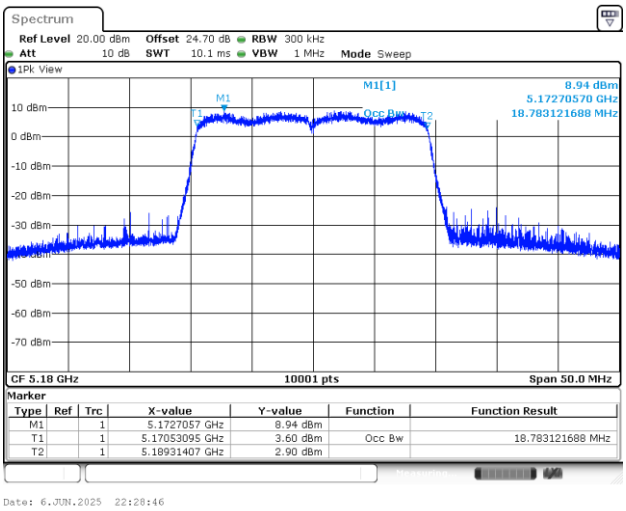
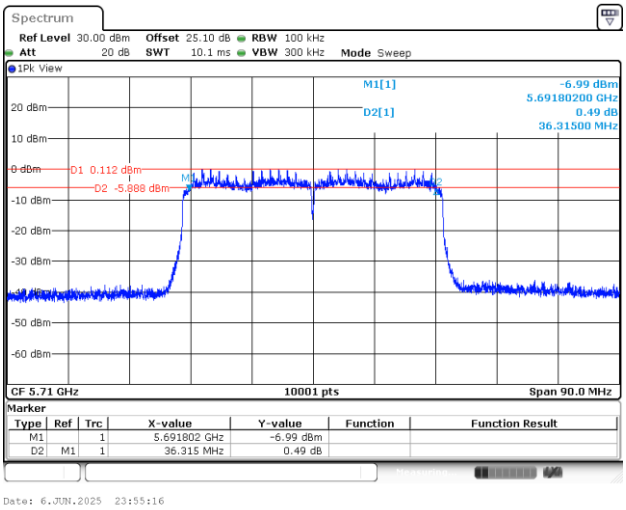
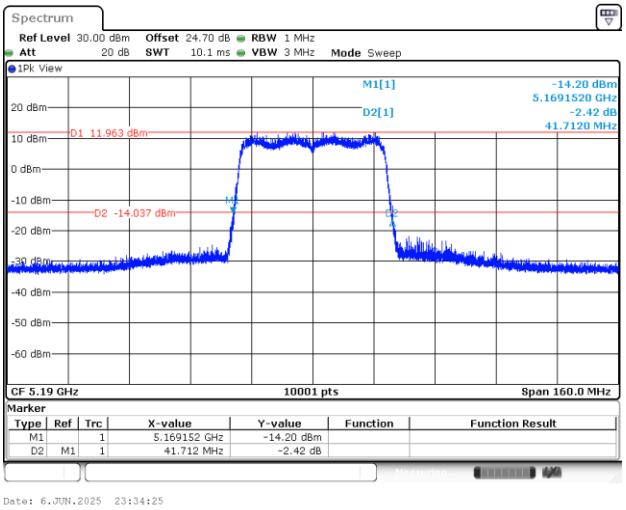
	

<802.11ax HE20>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

<802.11ax HE40>

6dB Bandwidth	26dB Bandwidth
	
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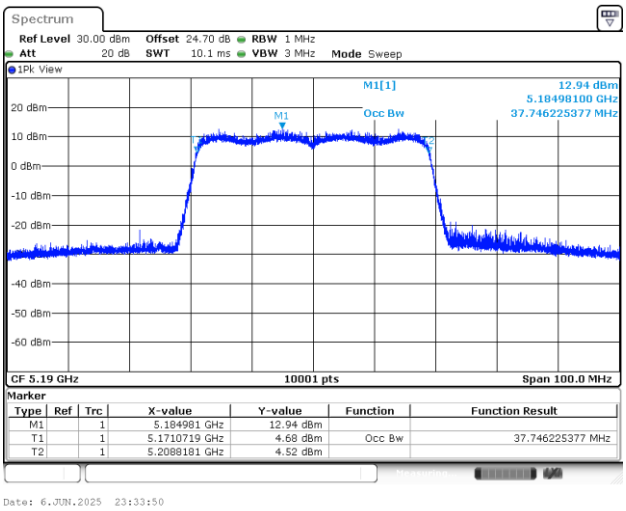
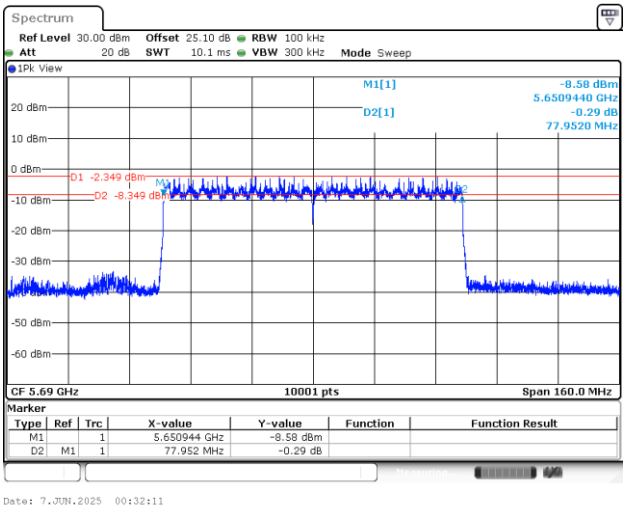
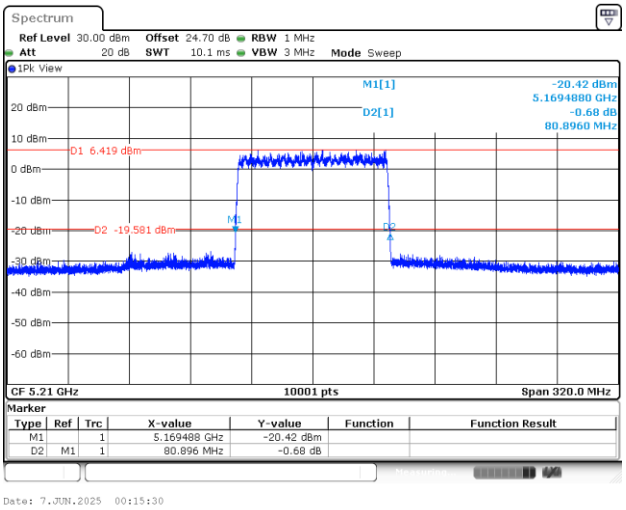
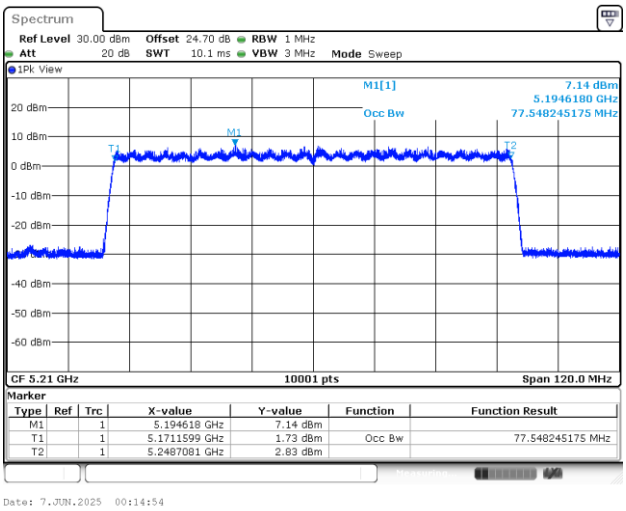
	

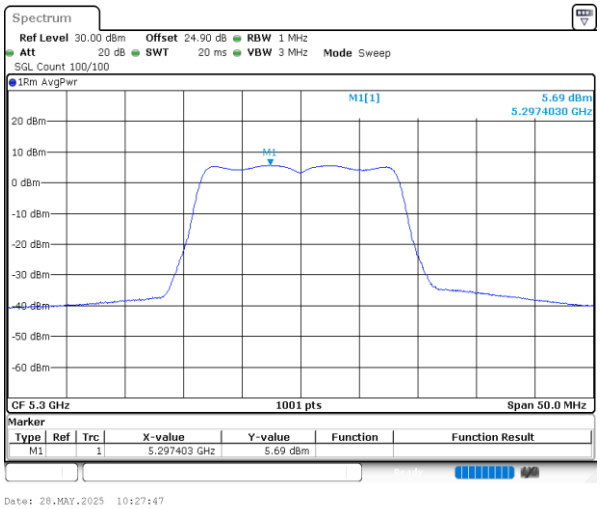
<802.11ax HE80>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

Test Result of Power Spectral Density

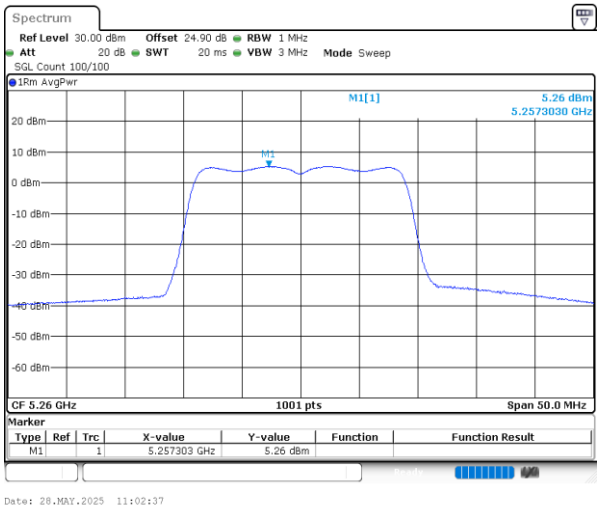
<802.11a>

Maximum Power Density Plot (dBm/500kHz)



<802.11an HT20>

Maximum Power Density Plot (dBm/500kHz)



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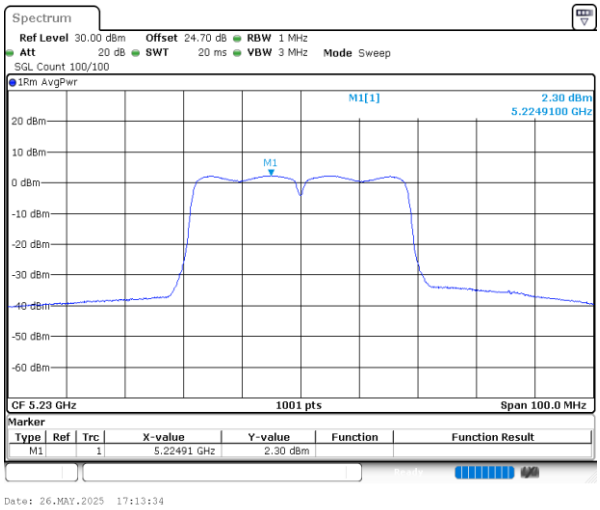

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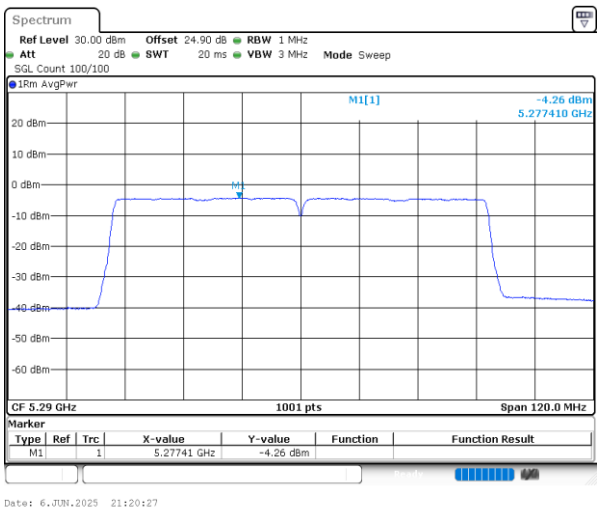
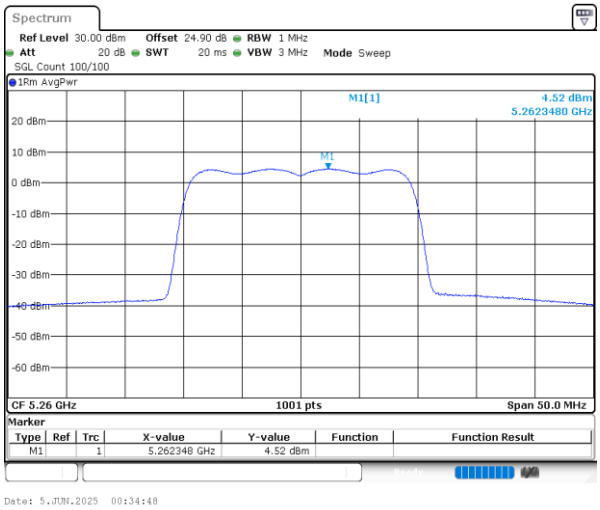
Maximum Power Density Plot (dBm/500kHz)


<802.11ax HE20>

Maximum Power Density Plot (dBm/500kHz)



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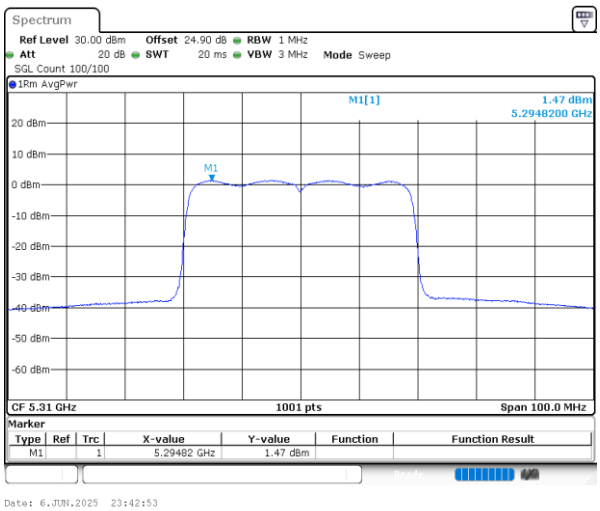
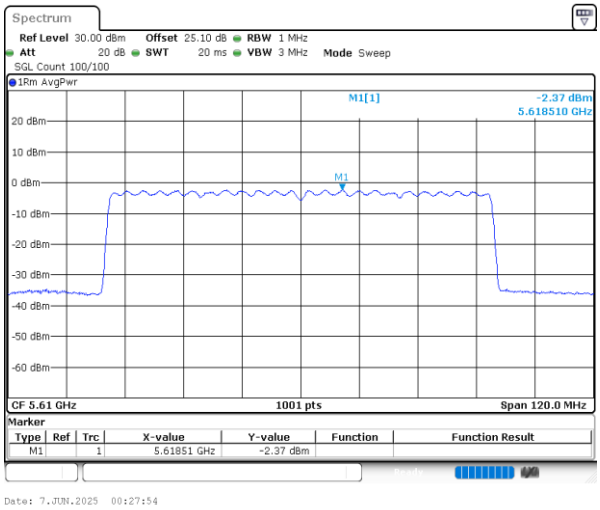
Maximum Power Density Plot (dBm/500kHz)



<802.11ax HE80>

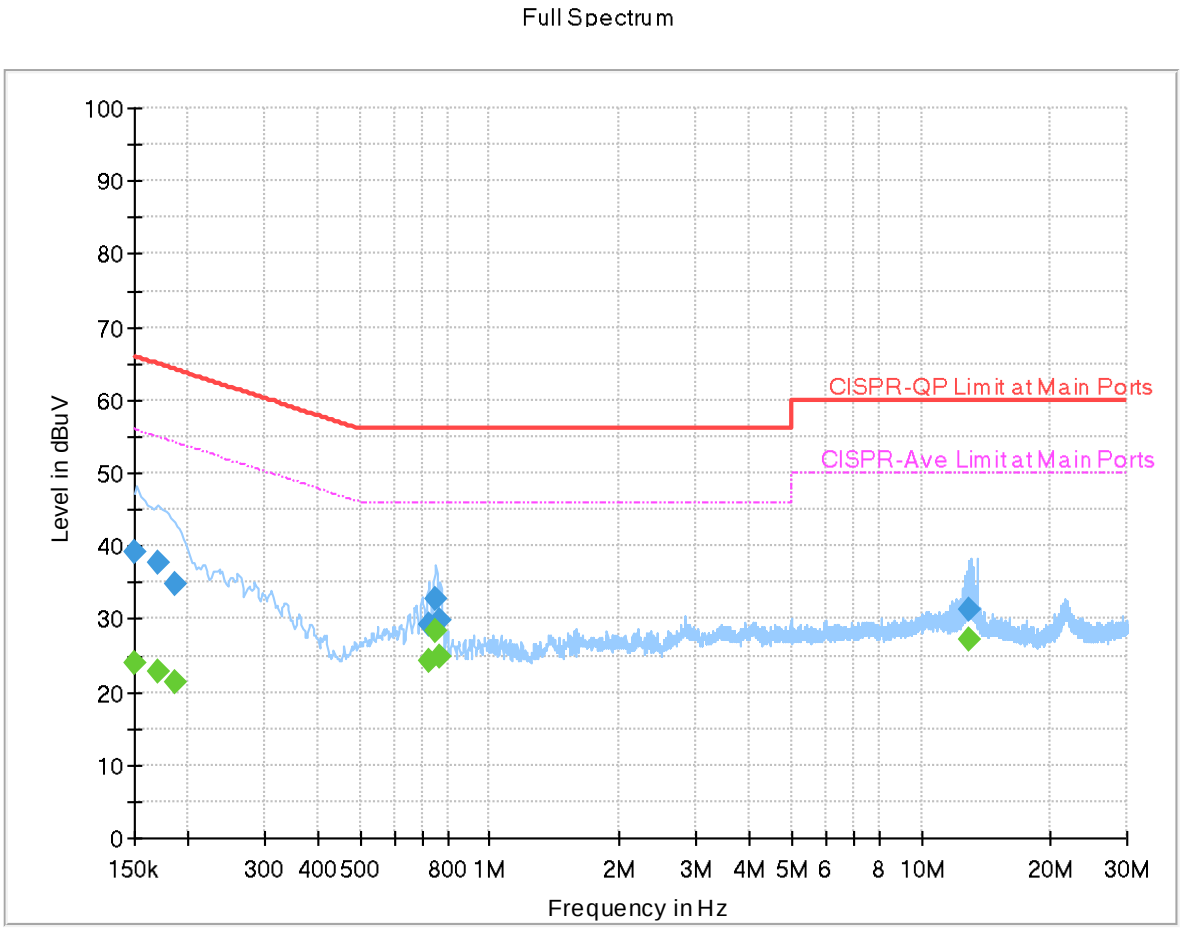
Maximum Power Density Plot (dBm/500kHz)


Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	**Temperature :**	23.3~26.7℃
		Relative Humidity :	45.6~68.1%

EUT Information

Report NO :	550853
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

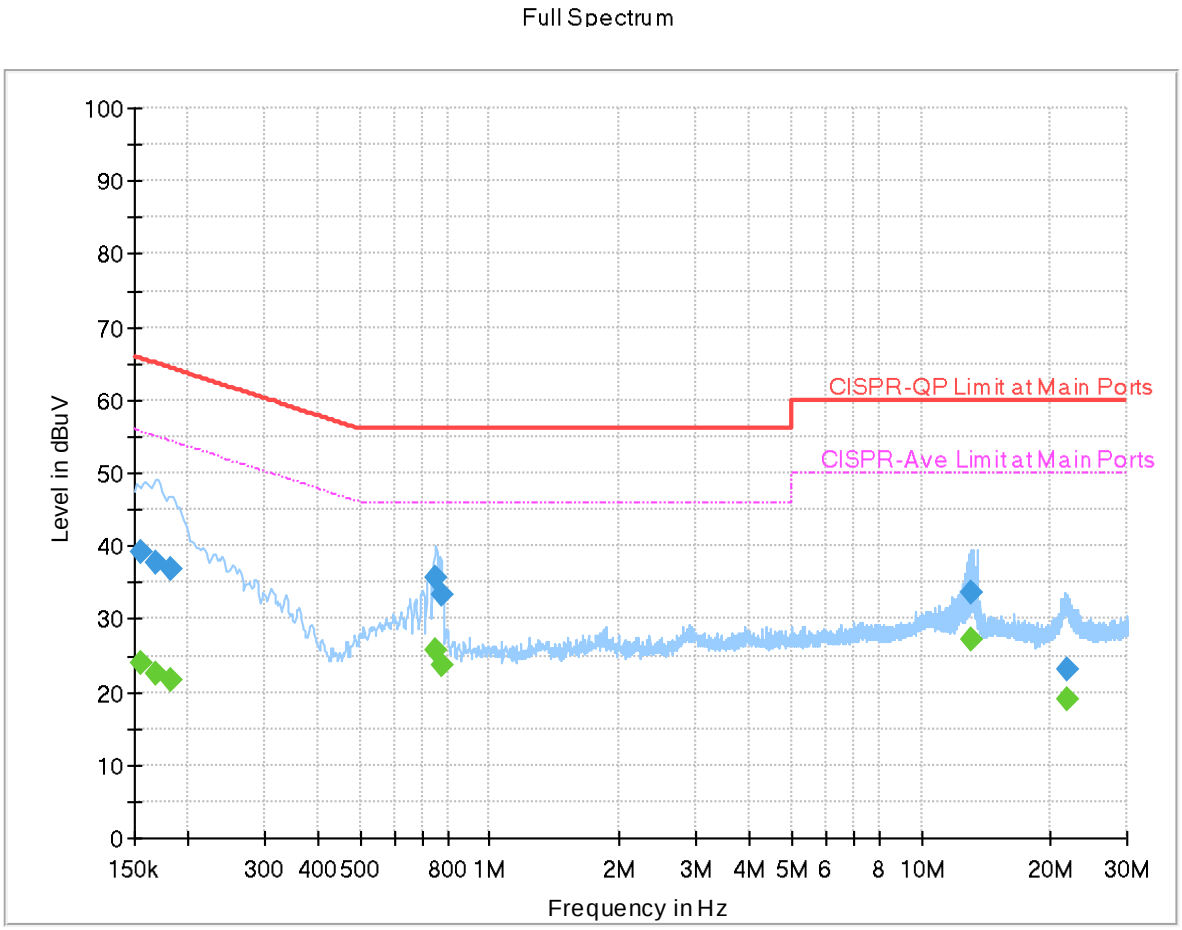


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.150000	---	24.09	56.00	31.91	L1	FLO	20.0
0.150000	39.20	---	66.00	26.80	L1	FLO	20.0
0.169620	---	22.80	54.98	32.18	L1	FLO	20.0
0.169620	37.81	---	64.98	27.17	L1	FLO	20.0
0.186000	---	21.28	54.21	32.93	L1	FLO	20.0
0.186000	34.69	---	64.21	29.52	L1	FLO	20.0
0.724290	---	24.40	46.00	21.60	L1	FLO	20.0
0.724290	29.37	---	56.00	26.63	L1	FLO	20.0
0.747330	---	28.41	46.00	17.59	L1	FLO	20.0
0.747330	32.69	---	56.00	23.31	L1	FLO	20.0
0.769110	---	24.76	46.00	21.24	L1	FLO	20.0
0.769110	29.80	---	56.00	26.20	L1	FLO	20.0
12.941250	---	27.10	50.00	22.90	L1	FLO	20.5
12.941250	31.32	---	60.00	28.68	L1	FLO	20.5

EUT Information

Report NO :	550853
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.154500	---	24.07	55.75	31.68	N	FLO	20.0
0.154500	39.04	---	65.75	26.71	N	FLO	20.0
0.168000	---	22.62	55.06	32.44	N	FLO	20.0
0.168000	37.68	---	65.06	27.38	N	FLO	20.0
0.182670	---	21.66	54.36	32.70	N	FLO	20.0
0.182670	36.86	---	64.36	27.50	N	FLO	20.0
0.750930	---	25.87	46.00	20.13	N	FLO	20.0
0.750930	35.77	---	56.00	20.23	N	FLO	20.0
0.773250	---	23.79	46.00	22.21	N	FLO	20.0
0.773250	33.24	---	56.00	22.76	N	FLO	20.0
13.038000	---	27.27	50.00	22.73	N	FLO	20.5
13.038000	33.59	---	60.00	26.41	N	FLO	20.5
21.830010	---	18.93	50.00	31.07	N	FLO	20.9
21.830010	23.14	---	60.00	36.86	N	FLO	20.9

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Fred Tseng, Ray Lung and Sky Chang	**Temperature :**	18~23℃
		Relative Humidity :	50`65%

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-3	5.725-5.85	2	802.11a	149	5745	6Mbps	-	-
Mode 2	U-NII-3	5.725-5.85	2	802.11a	157	5785	6Mbps	-	-
Mode 3	U-NII-3	5.725-5.85	2	802.11a	165	5825	6Mbps	-	-
Mode 4	U-NII-3	5.725-5.85	2	802.11n HT20	149	5745	MCS0	-	-
Mode 5	U-NII-3	5.725-5.85	2	802.11n HT20	157	5785	MCS0	-	-
Mode 6	U-NII-3	5.725-5.85	2	802.11n HT20	165	5825	MCS0	-	-
Mode 7	U-NII-3	5.725-5.85	2	802.11n HT40	151	5755	MCS0	-	-
Mode 8	U-NII-3	5.725-5.85	2	802.11n HT40	159	5795	MCS0	-	-
Mode 9	U-NII-3	5.725-5.85	2	802.11ac VHT80	155	5775	MCS0	-	-
Mode 10	U-NII-3	5.725-5.85	2	802.11ax HE20	149	5745	MCS0	Full RU	-
Mode 11	U-NII-3	5.725-5.85	2	802.11ax HE20	157	5785	MCS0	Full RU	-

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 12	U-NII-3	5.725-5.85	2	802.11ax HE20	165	5825	MCS0	Full RU	-
Mode 13	U-NII-3	5.725-5.85	2	802.11ax HE40	151	5755	MCS0	Full RU	-
Mode 14	U-NII-3	5.725-5.85	2	802.11ax HE40	159	5795	MCS0	Full RU	-
Mode 15	U-NII-3	5.725-5.85	2	802.11ax HE80	155	5775	MCS0	Full RU	-
Mode 16	U-NII-3	5.725-5.85	2	802.11ax HE20	149	5745	MCS0	RU106/53	-
Mode 17	U-NII-3	5.725-5.85	2	802.11ax HE80	155	5775	MCS0	Full RU	LF
Mode 18	U-NII-3	5.725-5.85	2	802.11ax HE80	155	5775	MCS0	Full RU	SHF

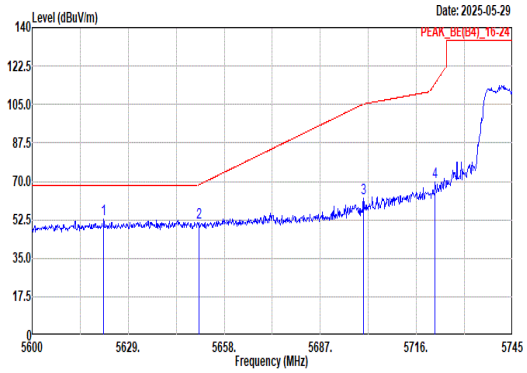
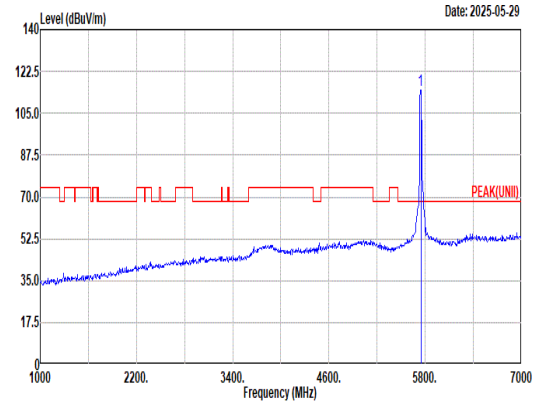
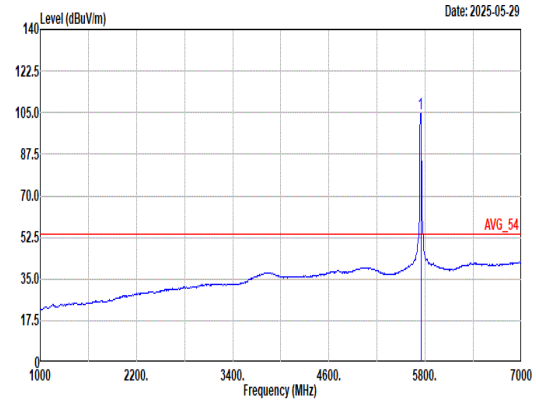
C2. Summary of each worse mode

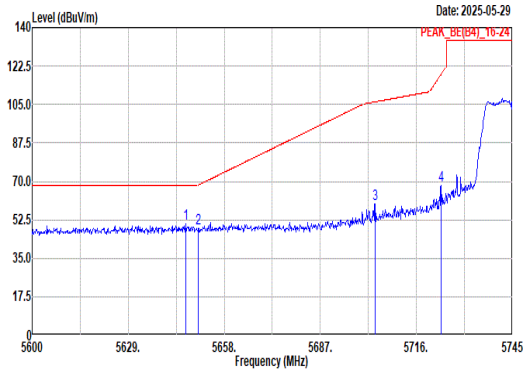
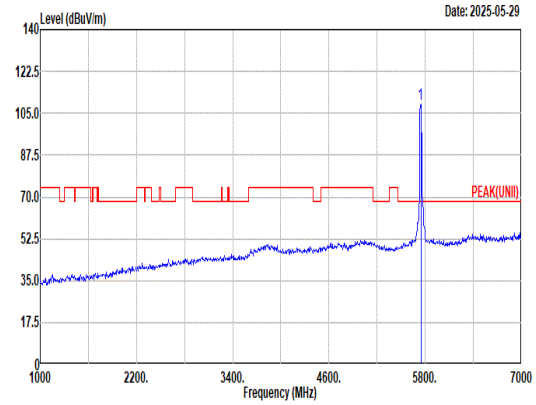
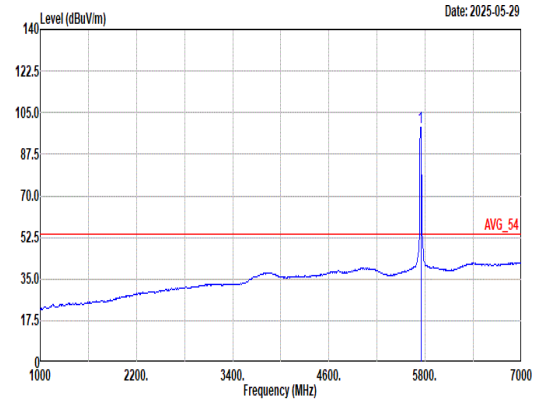
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11a	149	5621.61	53.08	68.20	-15.12	H	Peak	Pass	-	Band Edge
	802.11a	149	11490.00	41.77	54.00	-12.23	H	Avg.	Pass	-	Harmonic
2	802.11a	157	5944.39	50.63	68.20	-17.57	H	Peak	Pass	-	Band Edge
	802.11a	157	11570.00	42.26	54.00	-11.74	V	Avg.	Pass	-	Harmonic
3	802.11a	165	5939.75	51.24	68.20	-16.96	H	Peak	Pass	-	Band Edge
	802.11a	165	11650.00	42.31	54.00	-11.69	V	Avg.	Pass	-	Harmonic
4	802.11n HT20	149	5642.05	52.09	68.20	-16.11	H	Peak	Pass	-	Band Edge
	802.11n HT20	149	11490.00	40.27	54.00	-13.73	H	Avg.	Pass	-	Harmonic
5	802.11n HT20	157	5942.91	52.99	68.20	-15.21	H	Peak	Pass	-	Band Edge
	802.11n HT20	157	11570.00	39.56	54.00	-14.44	H	Avg.	Pass	-	Harmonic
6	802.11n HT20	165	5947.63	50.99	68.20	-17.21	H	Peak	Pass	-	Band Edge

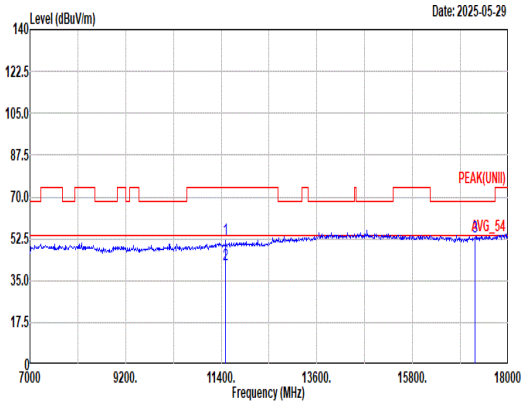
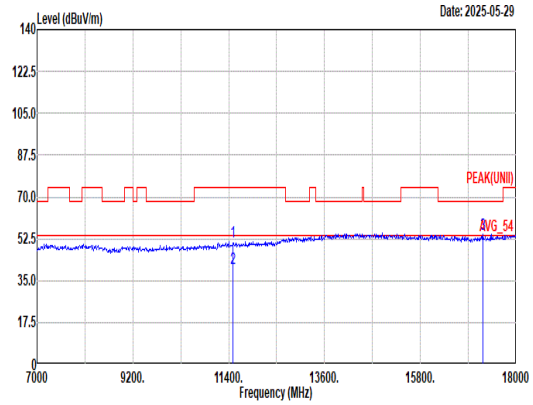
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
6	802.11n HT20	165	11650.00	39.48	54.00	-14.52	H	Avg.	Pass	-	Harmonic
7	802.11n HT40	151	5638.29	61.62	68.20	-6.58	H	Peak	Pass	-	Band Edge
	802.11n HT40	151	-	-	-	-	-	-	-	-	Harmonic
8	802.11n HT40	159	5931.71	51.53	68.20	-16.67	H	Peak	Pass	-	Band Edge
	802.11n HT40	159	-	-	-	-	-	-	-	-	Harmonic
9	802.11ac VHT80	155	5648.48	56.28	68.20	-11.92	H	Peak	Pass	-	Band Edge
	802.11ac VHT80	155	-	-	-	-	-	-	-	-	Harmonic
10	802.11ax HE20	149	5620.59	52.18	68.20	-16.02	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	149	11490.00	39.74	54.00	-14.26	H	Avg.	Pass	Full RU	Harmonic
11	802.11ax HE20	157	5949.34	51.13	68.20	-17.07	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	157	11570.00	39.51	54.00	-14.49	H	Avg.	Pass	Full RU	Harmonic

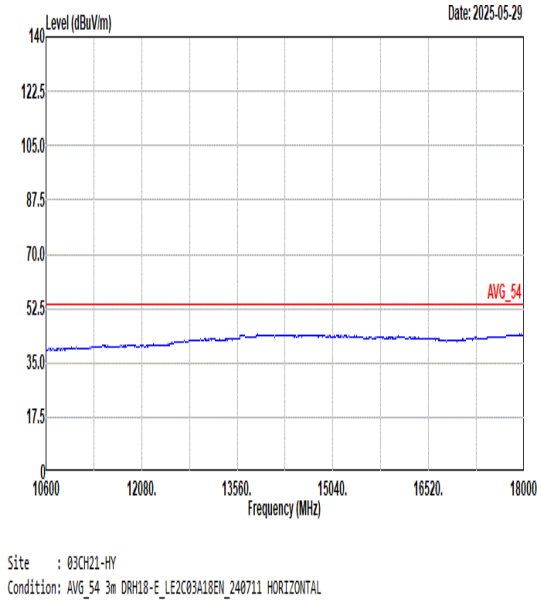
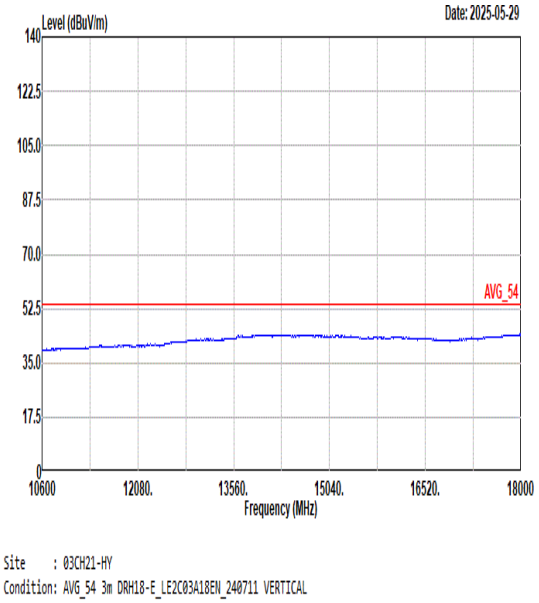
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
12	802.11ax HE20	165	5937.38	51.22	68.20	-16.98	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	165	11650.00	39.51	54.00	-14.49	H	Avg.	Pass	Full RU	Harmonic
13	802.11ax HE40	151	5647.74	55.43	68.20	-12.77	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE40	151	-	-	-	-	-	-	-	Full RU	Harmonic
14	802.11ax HE40	159	5944.58	50.92	68.20	-17.28	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE40	159	-	-	-	-	-	-	-	Full RU	Harmonic
15	802.11ax HE80	155	5622.05	65.72	68.20	-2.48	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE80	155	-	-	-	-	-	-	-	Full RU	Harmonic
16	802.11ax HE20	149	5639.59	49.90	68.20	-18.30	H	Peak	Pass	RU106/53	Band Edge
	802.11ax HE20	149	-	-	-	-	-	-	-	RU106/53	Harmonic
17	802.11ax HE80	155	711.91	38.57	46.00	-7.43	V	Peak	Pass	-	LF

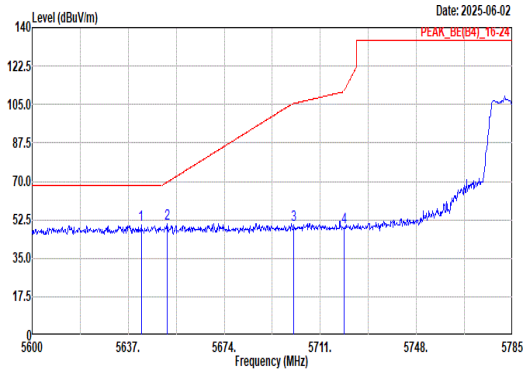
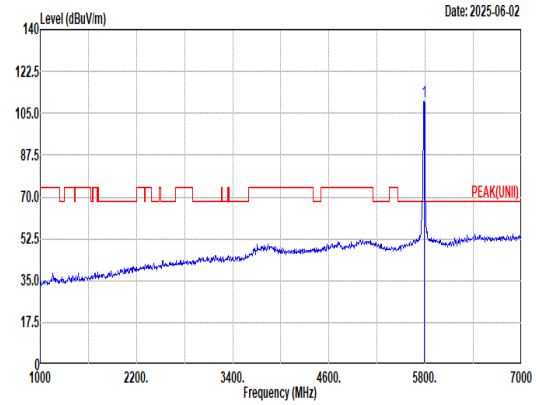
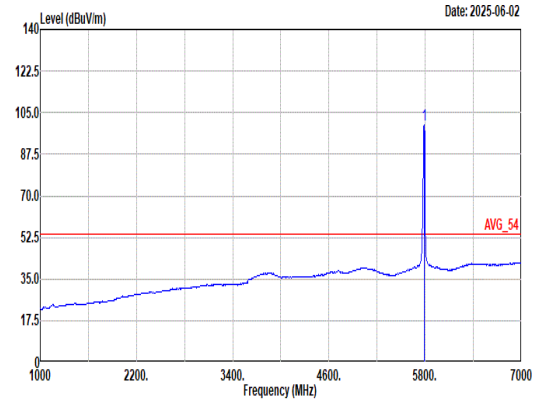
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
18	802.11ax HE80	155	39093.01	41.12	54.00	-12.88	H	Avg.	Pass	-	SHF

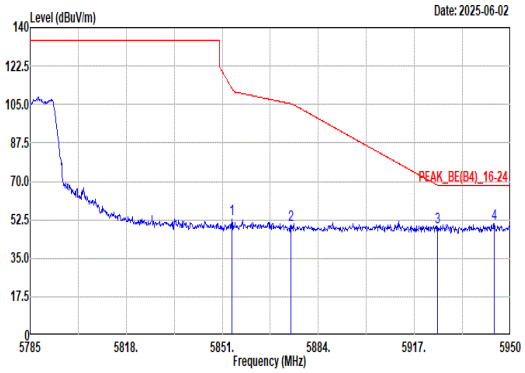
Mode	1	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5621.61 53.08 68.20 -15.12 41.79 33.03 13.58 35.32 0.00 251 225 Peak 2 5650.32 51.42 68.43 -17.01 39.94 33.20 13.61 35.33 0.00 251 225 Peak 3 5700.05 62.42 105.21 -42.79 50.61 33.50 13.67 35.36 0.00 251 225 Peak 4 5721.66 69.94 114.57 -44.63 58.02 33.59 13.70 35.37 0.00 251 225 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 5745.00 114.80 ------ ------ 102.80 33.66 13.72 35.38 0.00 251 225 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 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 5745.00 104.77 ------ ------ 92.77 33.66 13.72 35.38 0.00 251 225 Average

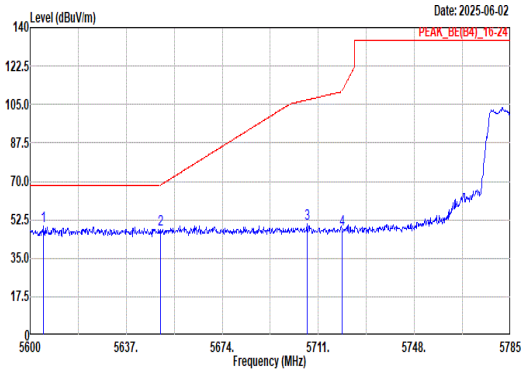
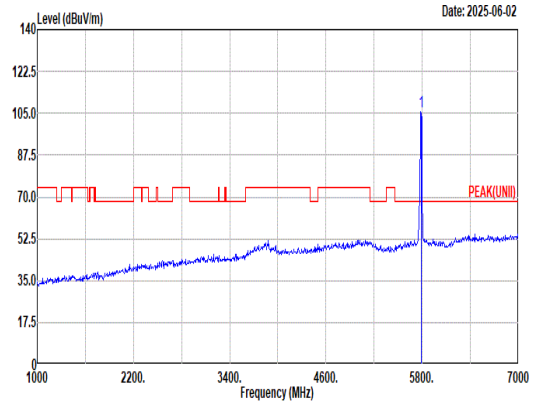
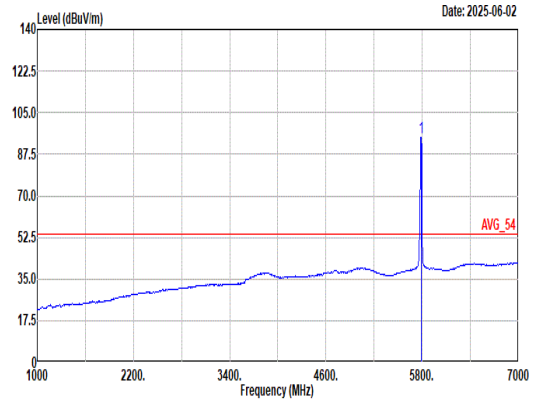
Mode	1	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5646.40 50.64 68.20 -17.56 39.18 33.18 13.61 35.33 0.00 318 183 Peak 2 5650.17 48.79 68.33 -19.54 37.31 33.20 13.61 35.33 0.00 318 183 Peak 3 5703.53 59.80 106.19 -46.39 47.98 33.51 13.67 35.36 0.00 318 183 Peak 4 5723.40 68.00 118.54 -50.54 56.08 33.59 13.70 35.37 0.00 318 183 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5745.00 108.85 ------ ------ 96.82 33.68 13.73 35.38 0.00 318 183 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5745.00 99.04 ------ ------ 87.01 33.68 13.73 35.38 0.00 318 183 Average

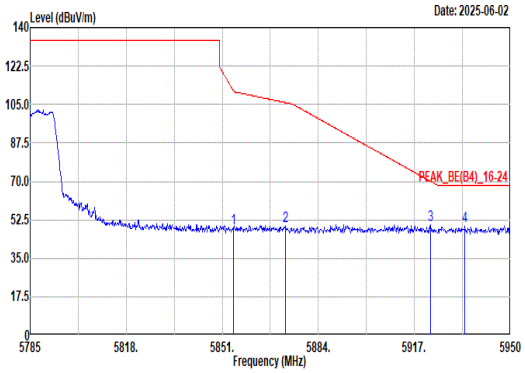
Mode	1	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
ANT	2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11490.00 52.36 74.00 -21.64 34.61 38.50 19.50 41.00 0.75 198 267 Peak 2 11490.00 41.77 54.00 -12.23 24.02 38.50 19.50 41.00 0.75 198 267 Average 3 17235.00 53.27 68.20 -14.93 35.76 39.87 24.01 46.97 0.60 -- -- Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 11490.00 51.20 74.00 -22.80 33.45 38.50 19.50 41.00 0.75 108 313 Peak 2 11490.00 40.06 54.00 -13.94 22.31 38.50 19.50 41.00 0.75 108 313 Average 3 17235.00 54.30 68.20 -13.90 36.79 39.87 24.01 46.97 0.60 -- -- Peak

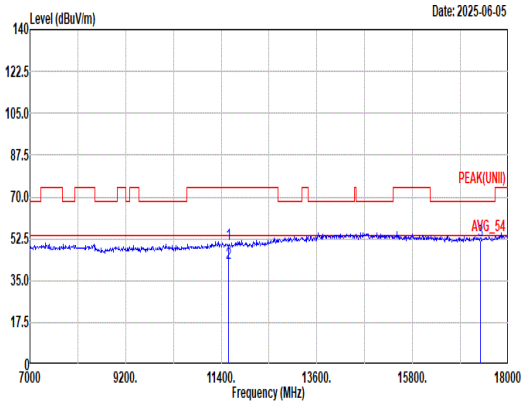
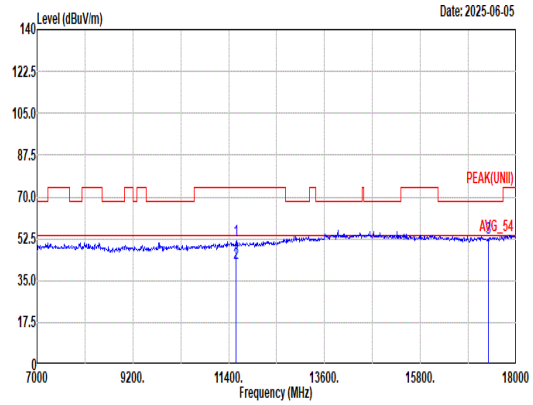
Mode	1	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
ANT	2	
Pol.	Horizontal	Vertical
10.6G ~18G Avg		

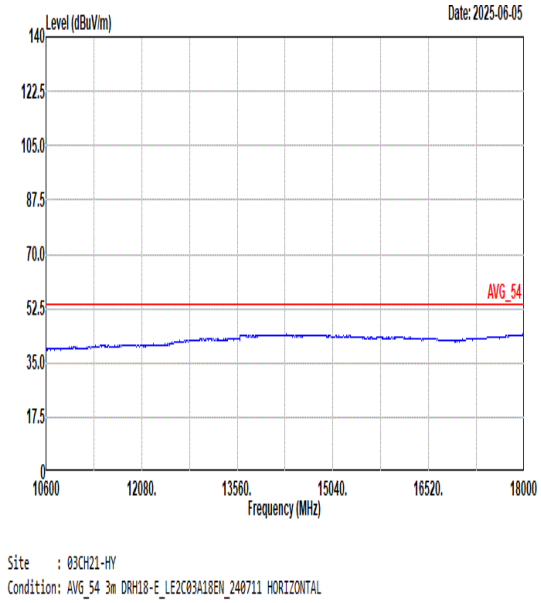
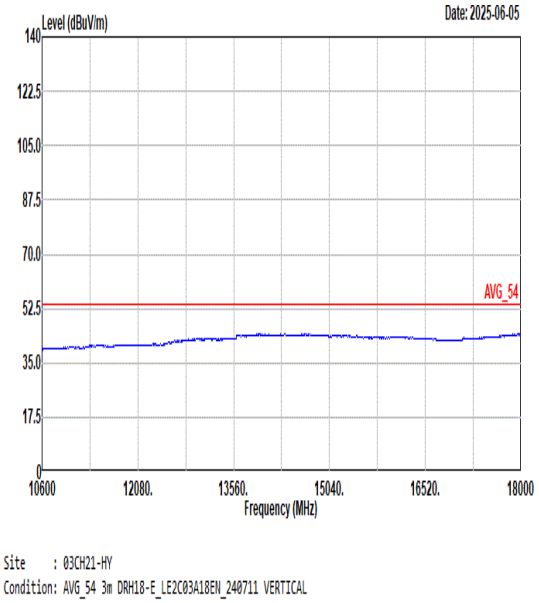
Mode	2	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5642.00 49.97 68.20 -18.23 38.55 33.15 13.60 35.33 0.00 0 0 Peak 2 5651.99 50.54 69.68 -19.14 39.05 33.21 13.61 35.33 0.00 0 0 Peak 3 5700.83 50.13 105.43 -55.30 38.32 33.50 13.67 35.36 0.00 0 0 Peak 4 5720.07 49.06 110.95 -61.89 37.16 33.58 13.69 35.37 0.00 0 0 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 5785.00 110.00 ------ ------ 97.93 33.70 13.77 35.40 0.00 0 0 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 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 5785.00 99.74 ------ ------ 87.67 33.70 13.78 35.41 0.00 0 0 Average

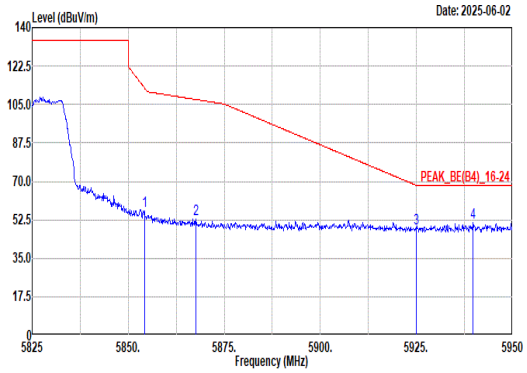
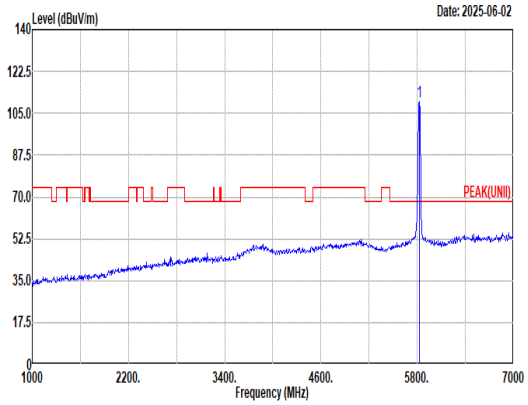
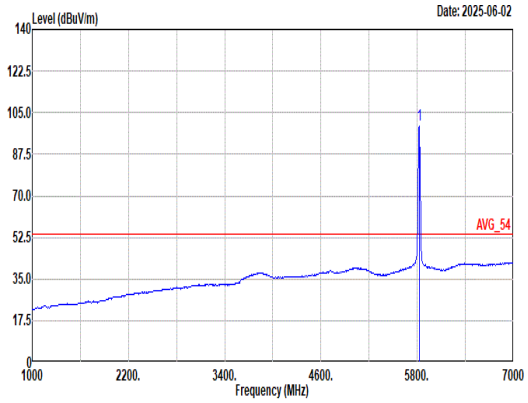
Mode	2	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.30 53.06 112.40 -59.34 40.94 33.70 13.86 35.44 0.00 0 0 Peak 2 5874.60 50.13 105.31 -55.18 38.00 33.70 13.88 35.45 0.00 0 0 Peak 3 5924.92 49.39 68.26 -18.87 37.28 33.65 13.94 35.48 0.00 0 0 Peak 4 5944.39 50.63 68.20 -17.57 38.55 33.61 13.96 35.49 0.00 0 0 Peak	Blank

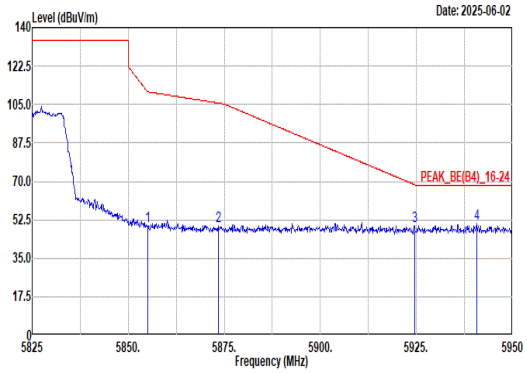
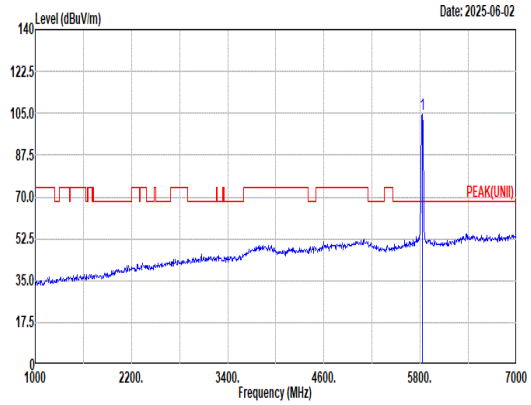
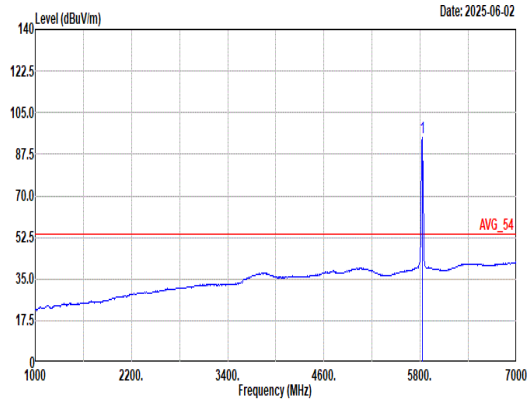
Mode	2	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5605.00 49.45 68.20 -18.75 38.27 32.93 13.56 35.31 0.00 300 203 Peak 2 5650.14 47.92 68.30 -20.38 36.44 33.20 13.61 35.33 0.00 300 203 Peak 3 5706.56 50.54 107.04 -56.50 38.69 33.53 13.68 35.36 0.00 300 203 Peak 4 5720.07 48.31 110.95 -62.64 36.41 33.58 13.69 35.37 0.00 300 203 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5785.00 105.76 ------ ------ 93.69 33.70 13.77 35.40 0.00 300 203 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5785.00 94.55 ------ ------ 82.48 33.70 13.77 35.40 0.00 300 203 Average

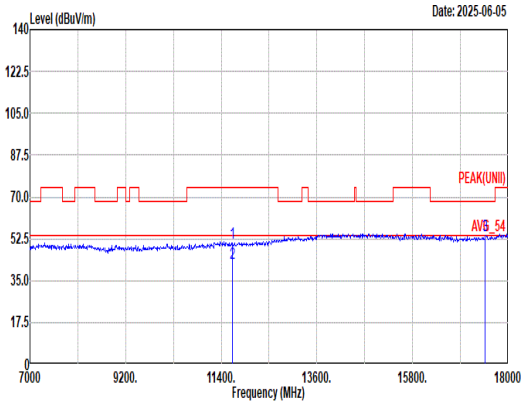
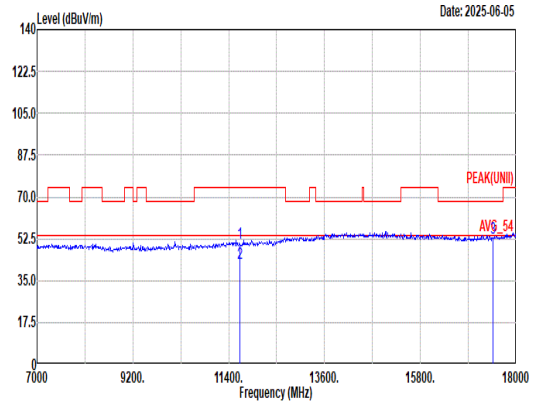
Mode	2	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.96 48.78 110.89 -62.11 36.66 33.70 13.86 35.44 0.00 300 203 Peak 2 5872.78 49.78 105.82 -56.04 37.65 33.70 13.88 35.45 0.00 300 203 Peak 3 5922.45 50.03 70.08 -20.05 37.91 33.66 13.94 35.48 0.00 300 203 Peak 4 5934.33 49.58 68.20 -18.62 37.48 33.63 13.95 35.48 0.00 300 203 Peak	Blank

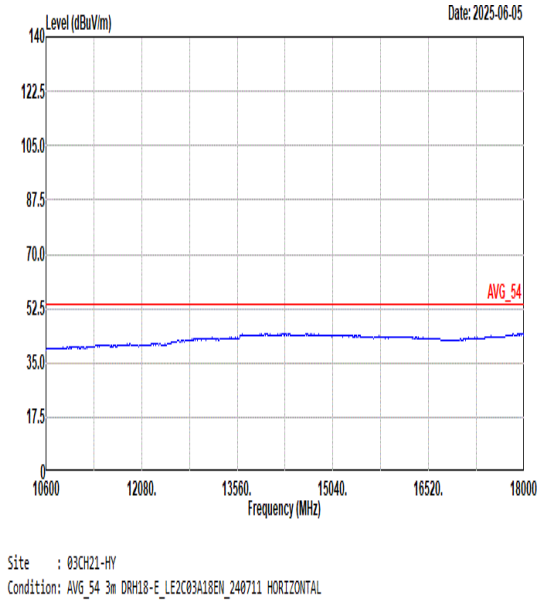
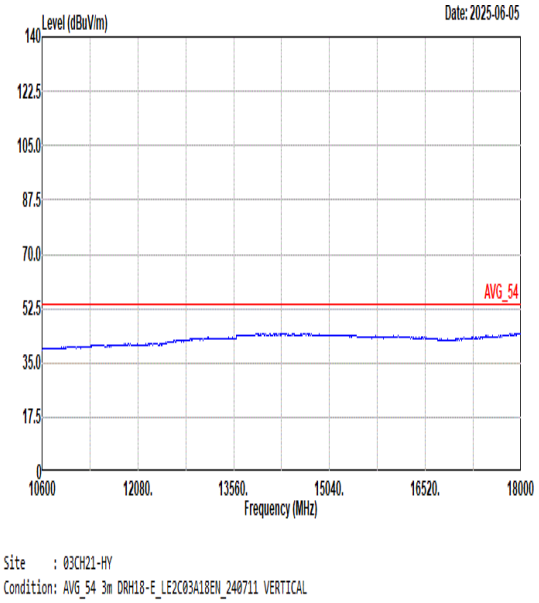
Mode	2	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
ANT	2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11570.00 50.17 74.00 -23.83 32.41 38.50 19.57 41.06 0.75 -- -- Peak 2 11570.00 42.05 54.00 -11.95 24.29 38.50 19.57 41.06 0.75 -- -- Average 3 17355.00 51.59 68.20 -16.61 34.01 39.91 24.10 47.03 0.60 -- -- Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 11570.00 51.60 74.00 -22.40 33.84 38.50 19.57 41.06 0.75 -- -- Peak 2 11570.00 42.26 54.00 -11.74 24.50 38.50 19.57 41.06 0.75 -- -- Average 3 17355.00 52.94 68.20 -15.26 35.36 39.91 24.10 47.03 0.60 -- -- Peak

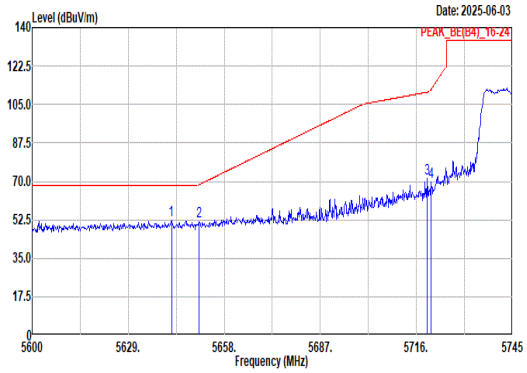
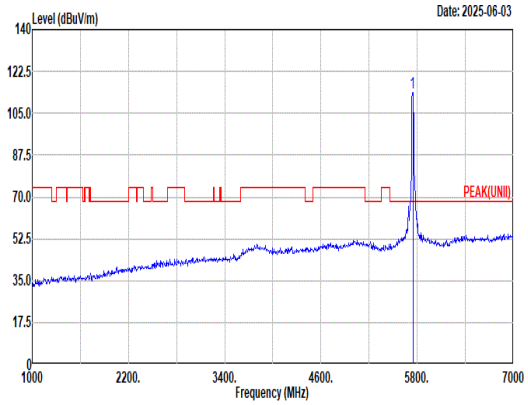
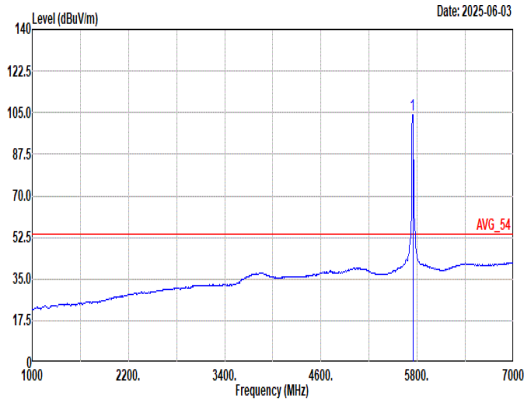
Mode	2	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
ANT	2	
Pol.	Horizontal	Vertical
10.6G ~18G Avg		

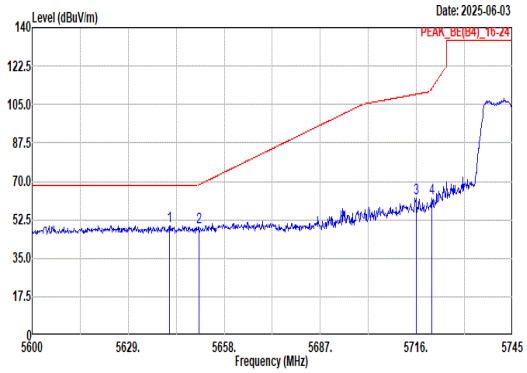
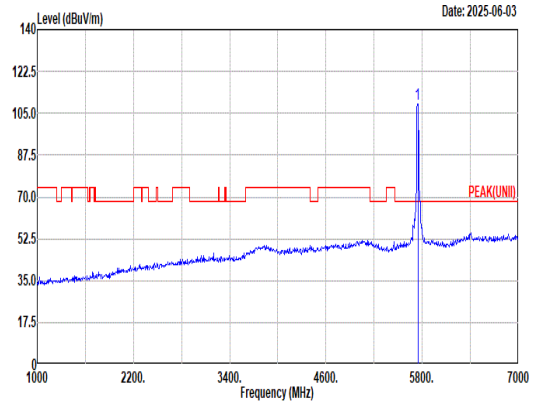
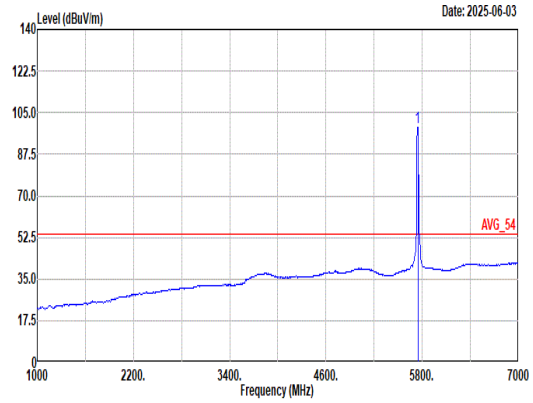
Mode	3	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5854.25 56.51 112.51 -56.00 44.39 33.70 13.86 35.44 0.00 241 236 Peak 2 5867.63 52.97 107.26 -54.29 40.85 33.70 13.87 35.45 0.00 241 236 Peak 3 5925.00 48.45 68.20 -19.75 36.34 33.65 13.94 35.48 0.00 241 236 Peak 4 5939.75 51.24 68.20 -16.96 39.15 33.62 13.96 35.49 0.00 241 236 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 1 5825.00 109.81 ------ ------ 97.71 33.70 13.83 35.43 0.00 241 236 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 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 1 5825.00 99.63 ------ ------ 87.53 33.70 13.82 35.42 0.00 241 236 Average

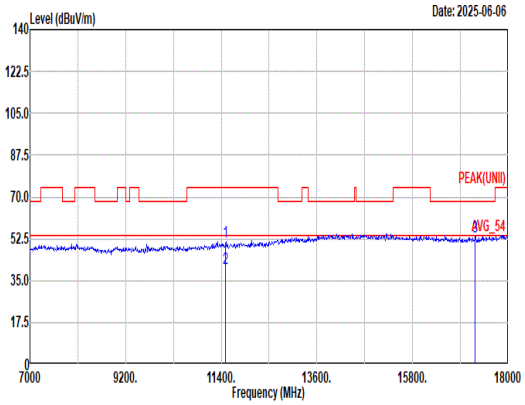
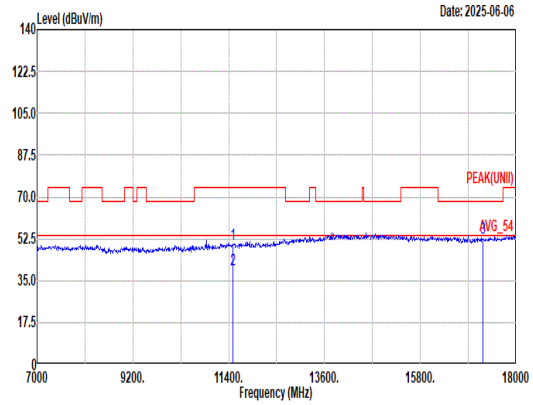
Mode	3	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5855.00 49.65 110.80 -61.15 37.53 33.70 13.86 35.44 0.00 345 197 Peak 2 5873.38 49.43 105.65 -56.22 37.30 33.70 13.88 35.45 0.00 345 197 Peak 3 5924.50 49.84 68.57 -18.73 37.73 33.65 13.94 35.48 0.00 345 197 Peak 4 5940.63 50.54 68.20 -17.66 38.45 33.62 13.96 35.49 0.00 345 197 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5825.00 104.74 ------ ------ 92.64 33.70 13.82 35.42 0.00 345 197 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5825.00 94.63 ------ ------ 82.53 33.70 13.82 35.42 0.00 345 197 Average

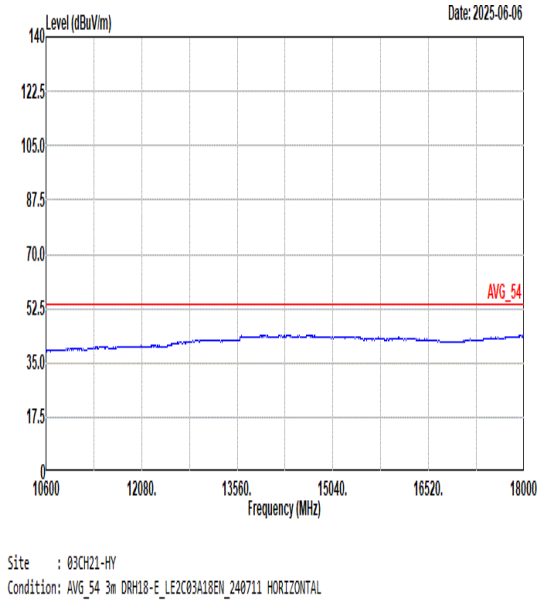
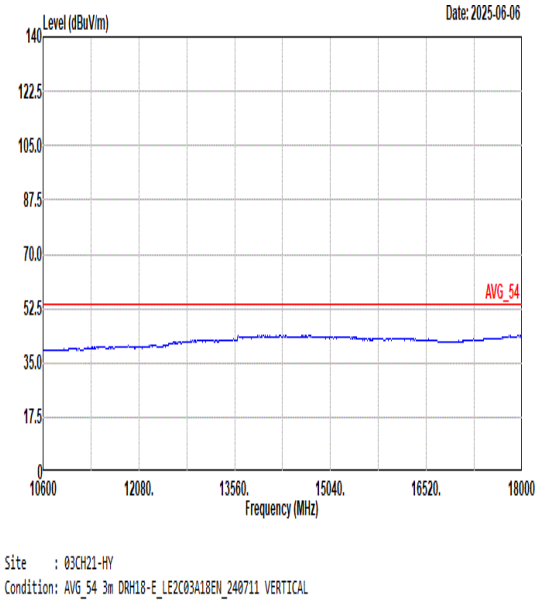
Mode	3	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11650.00 50.87 74.00 -23.13 33.11 38.50 19.64 41.13 0.75 -- -- Peak 2 11650.00 42.09 54.00 -11.91 24.33 38.50 19.64 41.13 0.75 -- -- Average 3 17475.00 53.66 68.20 -14.54 35.90 40.05 24.20 47.10 0.61 -- -- Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 11650.00 50.62 74.00 -23.38 32.86 38.50 19.64 41.13 0.75 -- -- Peak 2 11650.00 42.31 54.00 -11.69 24.55 38.50 19.64 41.13 0.75 -- -- Average 3 17475.00 53.09 68.20 -15.11 35.33 40.05 24.20 47.10 0.61 -- -- Peak

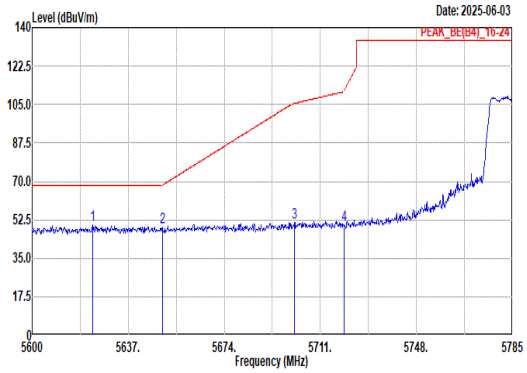
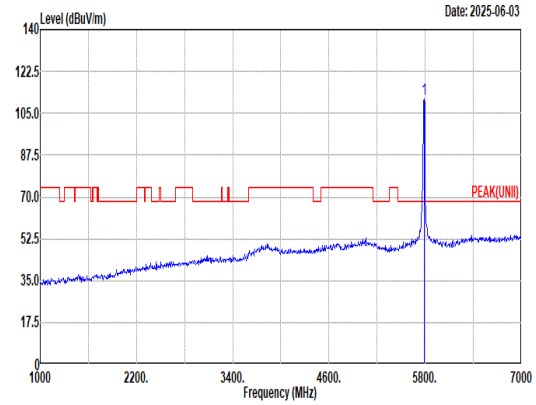
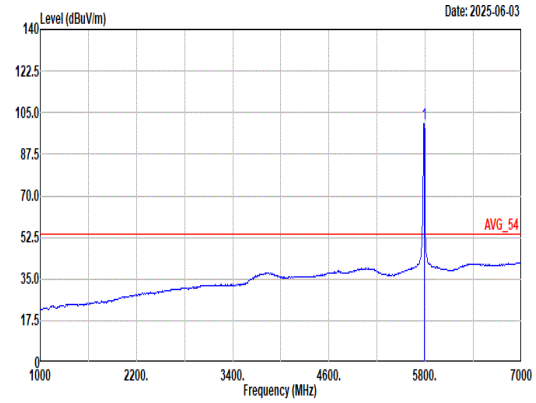
Mode	3	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	2	
Pol.	Horizontal	Vertical
10.6G ~18G Avg		

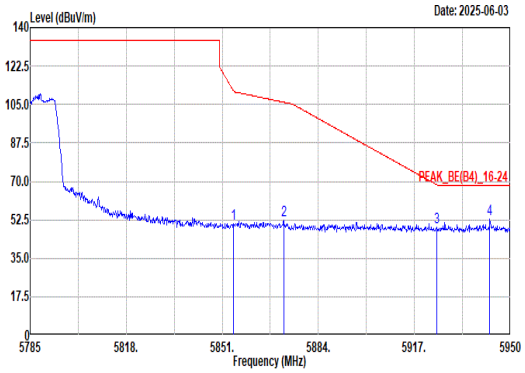
Mode	4	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5642.05 52.09 68.20 -16.11 40.67 33.15 13.60 35.33 0.00 250 226 Peak 2 5650.46 51.77 68.54 -16.77 40.29 33.20 13.61 35.33 0.00 250 226 Peak 3 5719.34 71.14 110.61 -39.47 59.24 33.58 13.69 35.37 0.00 250 226 Peak 4 5720.35 69.66 111.60 -41.94 57.76 33.58 13.69 35.37 0.00 250 226 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 5745.00 113.75 ------ ------ 101.75 33.66 13.72 35.38 0.00 250 226 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 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 5745.00 104.21 ------ ------ 92.21 33.66 13.72 35.38 0.00 250 226 Average

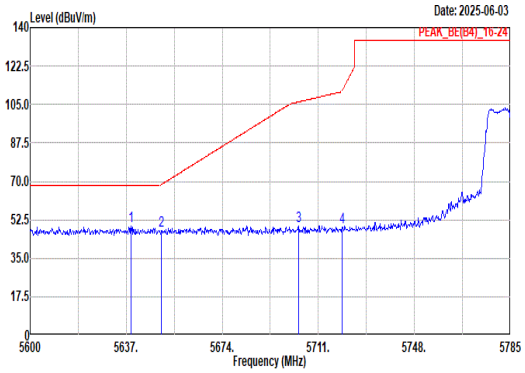
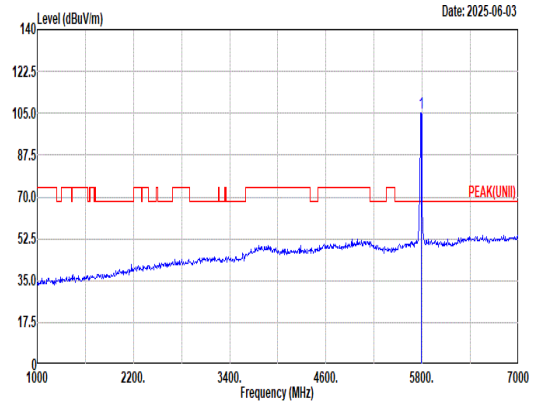
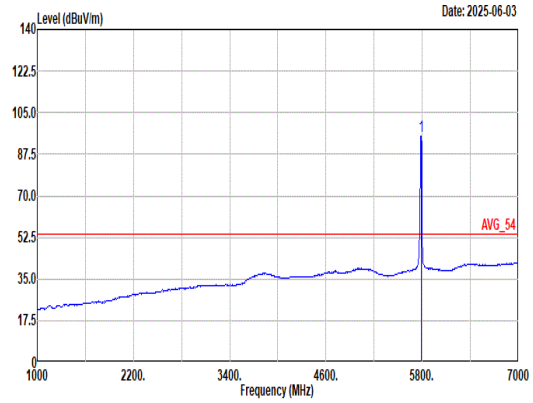
Mode	4	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5641.47 49.76 68.20 -18.44 38.34 33.15 13.60 35.33 0.00 242 192 Peak 2 5650.32 49.09 68.43 -19.34 37.61 33.20 13.61 35.33 0.00 242 192 Peak 3 5715.86 62.60 109.64 -47.04 50.72 33.56 13.69 35.37 0.00 242 192 Peak 4 5720.64 62.26 112.26 -50.00 50.36 33.58 13.69 35.37 0.00 242 192 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 5745.00 108.92 ------ ------ 96.92 33.66 13.72 35.38 0.00 242 192 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 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 5745.00 98.85 ------ ------ 86.82 33.68 13.73 35.38 0.00 242 192 Average

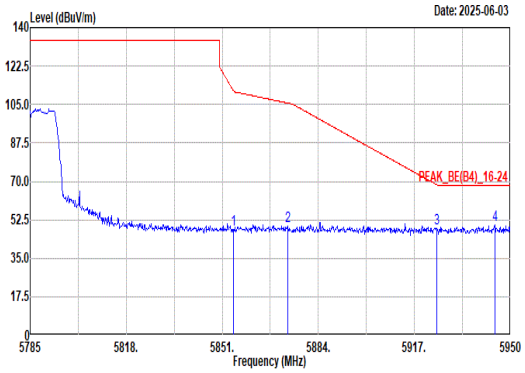
Mode	4	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11490.00 51.31 74.00 -22.69 33.56 38.50 19.50 41.00 0.75 -- -- Peak 2 11490.00 40.27 54.00 -13.73 22.52 38.50 19.50 41.00 0.75 -- -- Average 3 17235.00 53.26 68.20 -14.94 35.75 39.87 24.01 46.97 0.60 -- -- Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 11490.00 50.27 74.00 -23.73 32.52 38.50 19.50 41.00 0.75 -- -- Peak 2 11490.00 39.72 54.00 -14.28 21.97 38.50 19.50 41.00 0.75 -- -- Average 3 17235.00 52.72 68.20 -15.48 35.21 39.87 24.01 46.97 0.60 -- -- Peak

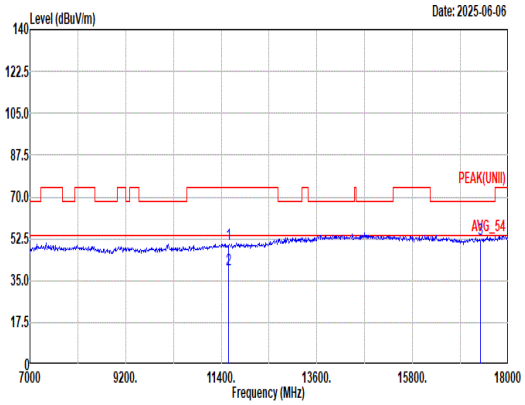
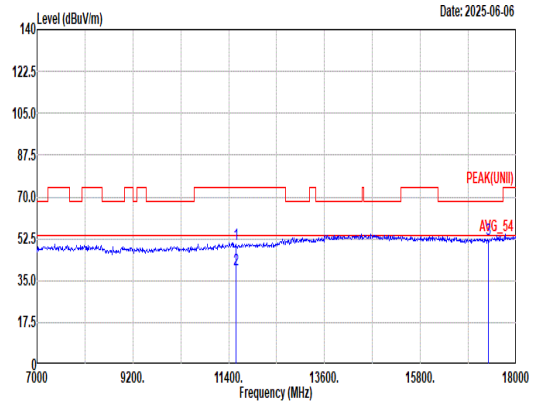
Mode	4	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	2	
Pol.	Horizontal	Vertical
10.6G ~18G Avg		

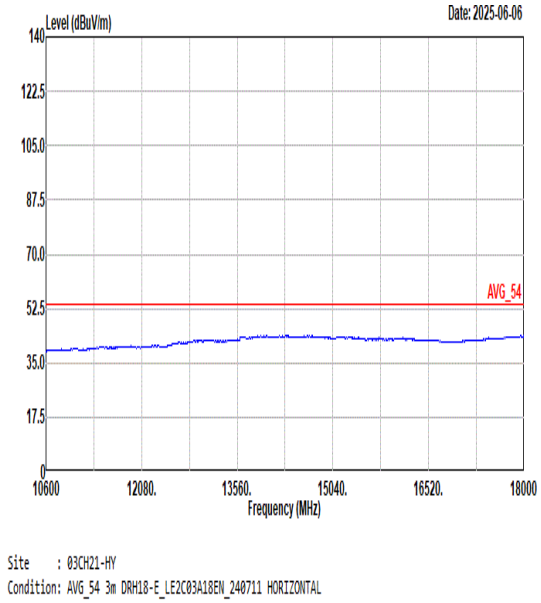
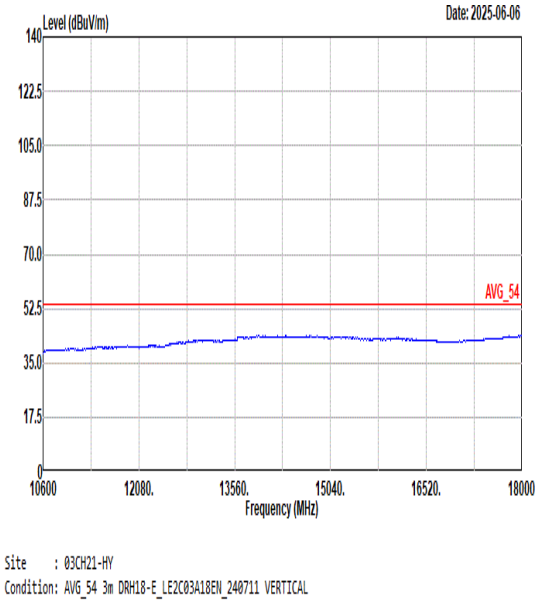
Mode	5	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5623.31 50.42 68.20 -17.78 39.12 33.04 13.58 35.32 0.00 244 225 Peak 2 5650.14 49.34 68.30 -18.96 37.86 33.20 13.61 35.33 0.00 244 225 Peak 3 5701.01 51.24 105.48 -54.24 39.43 33.50 13.67 35.36 0.00 244 225 Peak 4 5720.07 50.38 110.95 -60.57 38.48 33.58 13.69 35.37 0.00 244 225 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 5785.00 111.02 ------ ------ 98.95 33.70 13.78 35.41 0.00 244 225 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 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 5785.00 100.39 ------ ------ 88.32 33.70 13.77 35.40 0.00 244 225 Average

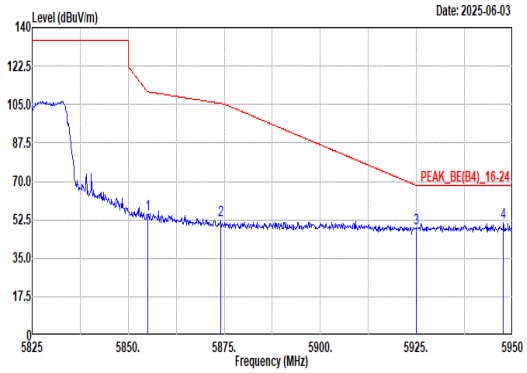
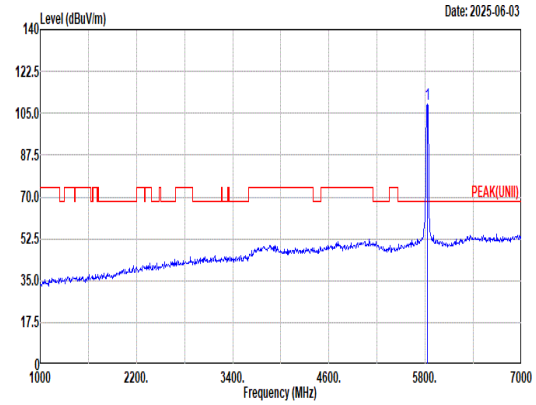
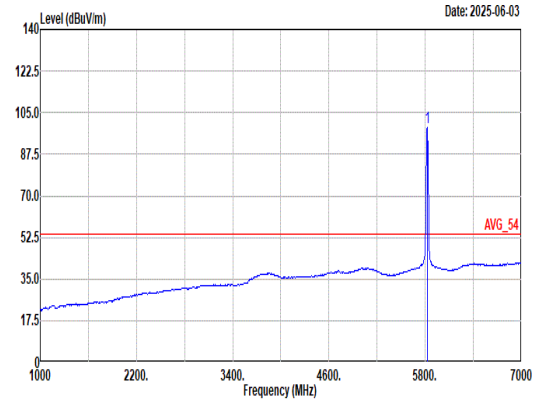
Mode	5	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.80 50.76 111.27 -60.51 38.64 33.70 13.86 35.44 0.00 244 225 Peak 2 5872.12 52.05 106.01 -53.96 39.92 33.70 13.88 35.45 0.00 244 225 Peak 3 5924.76 48.88 68.38 -19.50 36.77 33.65 13.94 35.48 0.00 244 225 Peak 4 5942.91 52.99 68.20 -15.21 40.91 33.61 13.96 35.49 0.00 244 225 Peak	Blank

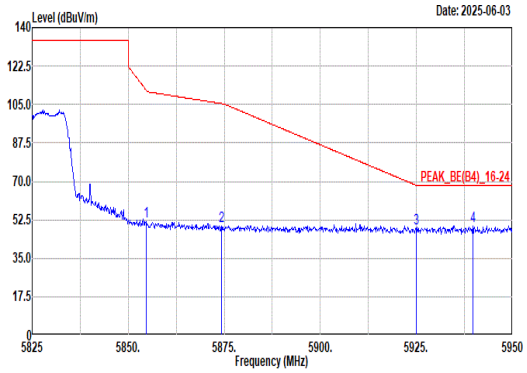
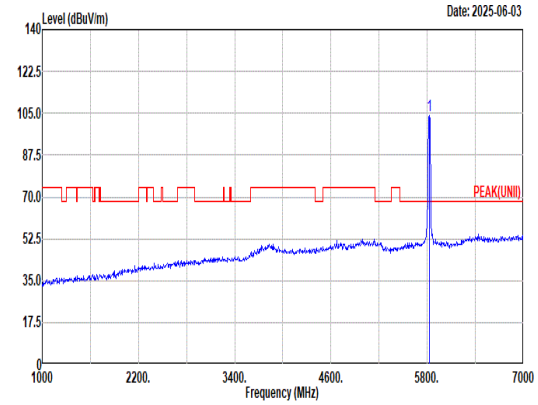
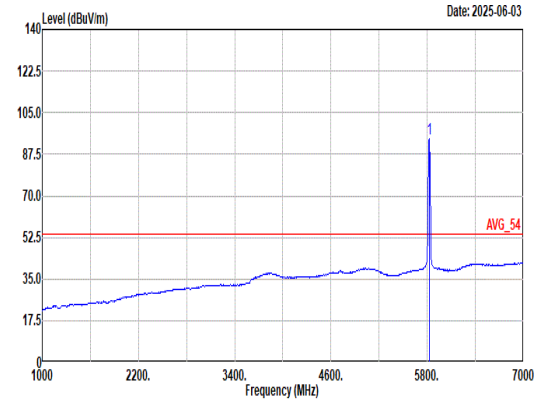
Mode	5	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5638.85 49.46 68.20 -18.74 38.05 33.13 13.60 35.32 0.00 333 205 Peak 2 5650.51 47.61 68.58 -20.97 36.13 33.20 13.61 35.33 0.00 333 205 Peak 3 5703.42 49.54 106.16 -56.62 37.72 33.51 13.67 35.36 0.00 333 205 Peak 4 5720.07 48.99 110.95 -61.96 37.09 33.58 13.69 35.37 0.00 333 205 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5785.00 105.14 ------ ------ 93.07 33.70 13.77 35.40 0.00 333 205 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5785.00 95.00 ------ ------ 82.93 33.70 13.78 35.41 0.00 333 205 Average

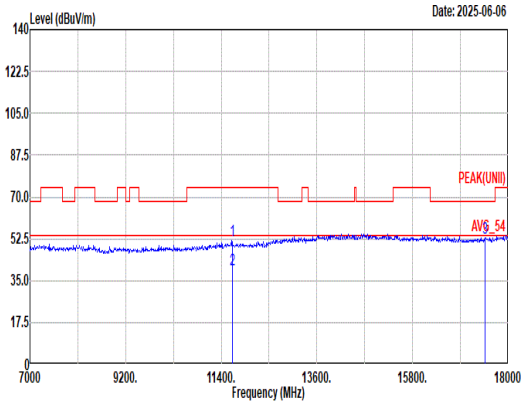
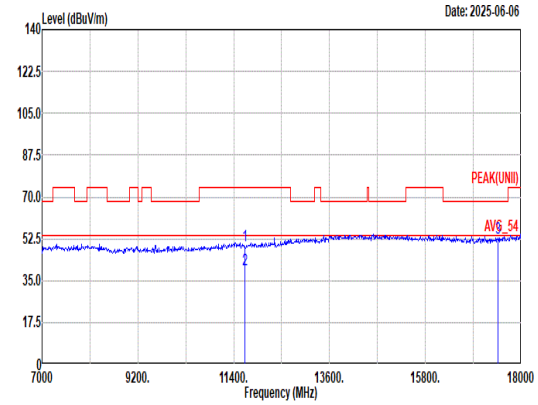
Mode	5	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.80 48.19 111.27 -63.08 36.07 33.70 13.86 35.44 0.00 333 205 Peak 2 5873.61 49.71 105.59 -55.88 37.58 33.70 13.88 35.45 0.00 333 205 Peak 3 5924.59 48.82 68.50 -19.68 36.71 33.65 13.94 35.48 0.00 333 205 Peak 4 5944.56 50.18 68.20 -18.02 38.10 33.61 13.96 35.49 0.00 333 205 Peak	Blank

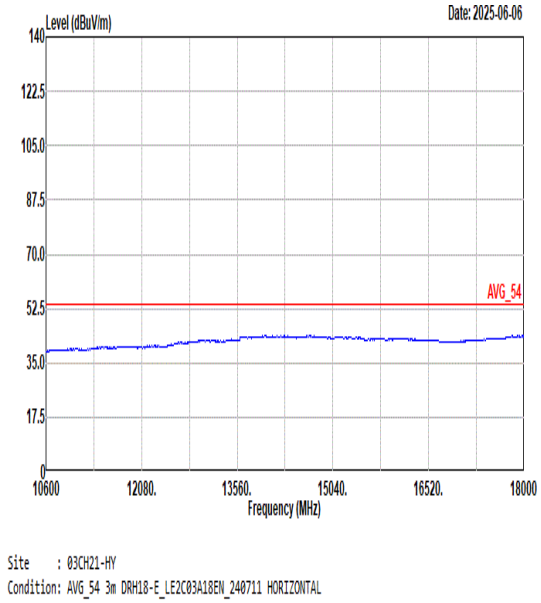
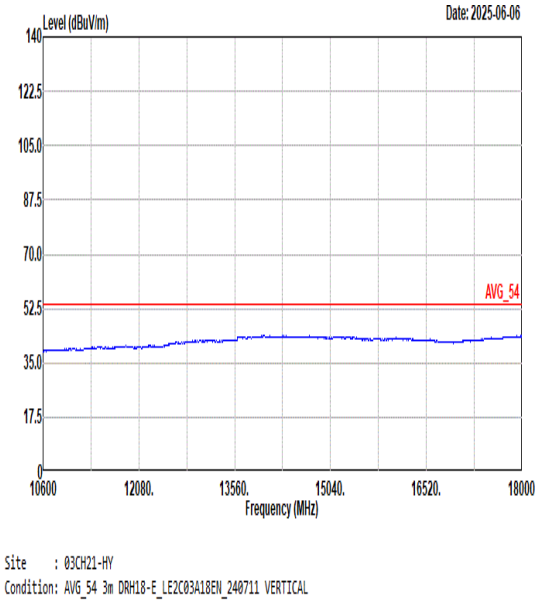
Mode	5	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11570.00 50.06 74.00 -23.94 32.30 38.50 19.57 41.06 0.75 -- -- Peak 2 11570.00 39.56 54.00 -14.44 21.80 38.50 19.57 41.06 0.75 -- -- Average 3 17355.00 52.18 68.20 -16.02 34.60 39.91 24.10 47.03 0.60 -- -- Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 11570.00 50.24 74.00 -23.76 32.48 38.50 19.57 41.06 0.75 -- -- Peak 2 11570.00 39.51 54.00 -14.49 21.75 38.50 19.57 41.06 0.75 -- -- Average 3 17355.00 52.28 68.20 -15.92 34.70 39.91 24.10 47.03 0.60 -- -- Peak

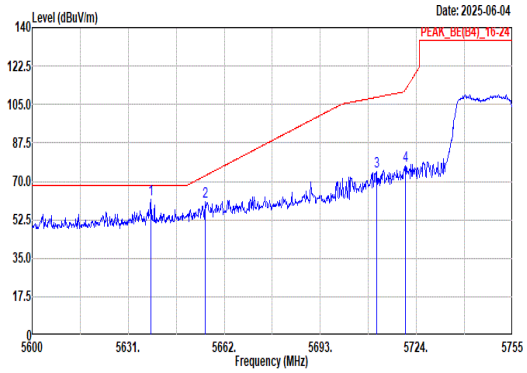
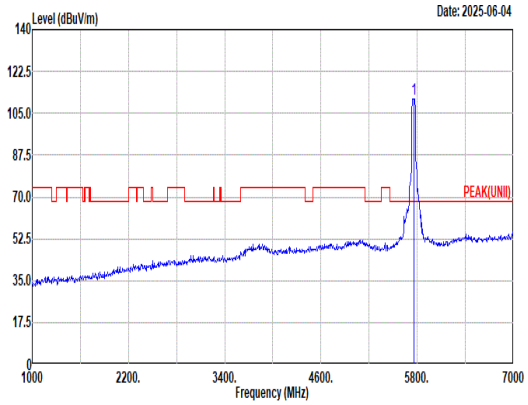
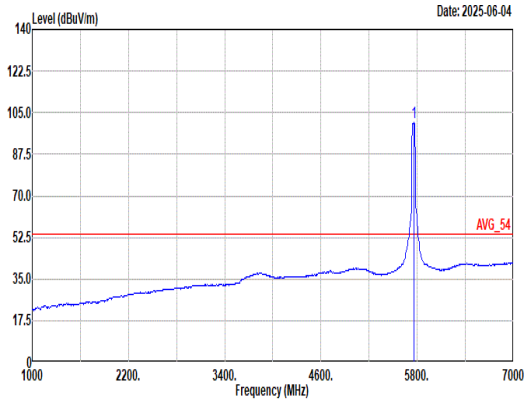
Mode	5	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	2	
Pol.	Horizontal	Vertical
10.6G ~18G Avg		

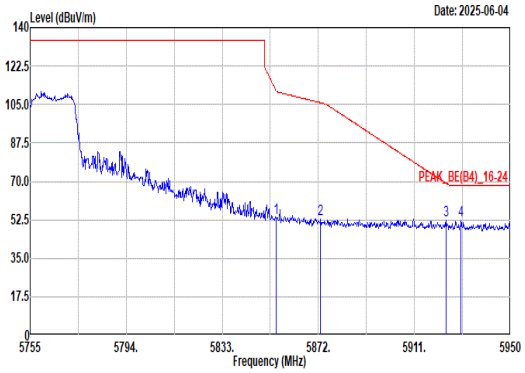
Mode	6	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH165_5825MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5855.00 54.83 110.80 -55.97 42.71 33.70 13.86 35.44 0.00 314 235 Peak 2 5874.13 52.47 105.44 -52.97 40.34 33.70 13.88 35.45 0.00 314 235 Peak 3 5925.00 48.68 68.20 -19.52 36.57 33.65 13.94 35.48 0.00 314 235 Peak 4 5947.63 50.99 68.20 -17.21 38.91 33.60 13.97 35.49 0.00 314 235 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 1 5825.00 109.01 ------ ------ 96.91 33.70 13.82 35.42 0.00 314 235 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 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 1 5825.00 98.75 ------ ------ 86.65 33.70 13.82 35.42 0.00 314 235 Average

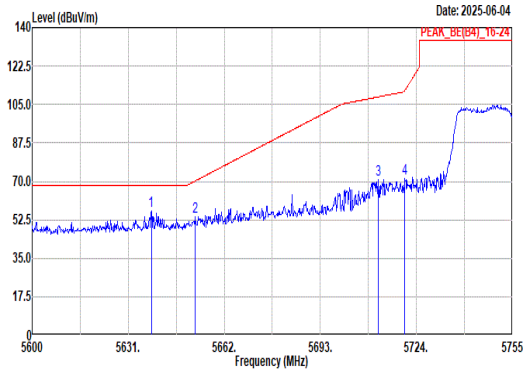
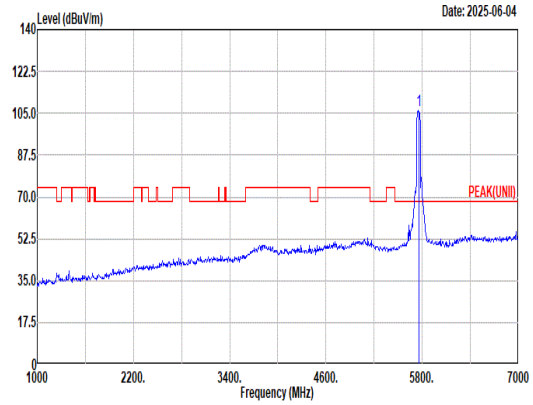
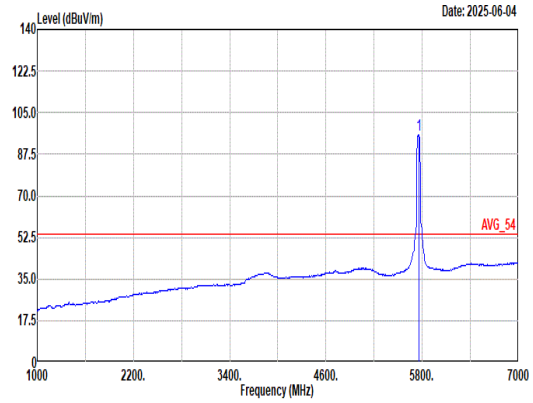
Mode	6	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH165_5825MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5854.75 51.65 111.37 -59.72 39.53 33.70 13.86 35.44 0.00 270 197 Peak 2 5874.25 49.82 105.41 -55.59 37.69 33.70 13.88 35.45 0.00 270 197 Peak 3 5924.88 48.71 68.29 -19.58 36.60 33.65 13.94 35.48 0.00 270 197 Peak 4 5939.63 49.75 68.20 -18.45 37.66 33.62 13.96 35.49 0.00 270 197 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5825.00 104.16 ------ ------ 92.06 33.70 13.82 35.42 0.00 270 197 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5825.00 94.11 ------ ------ 82.01 33.70 13.82 35.42 0.00 270 197 Average

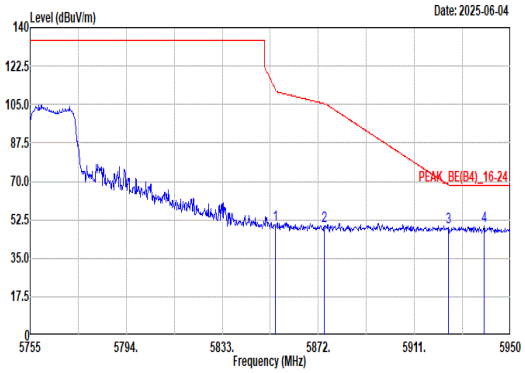
Mode	6	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH165_5825MHz	
ANT	2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11650.00 51.51 74.00 -22.49 33.75 38.50 19.64 41.13 0.75 -- -- Peak 2 11650.00 39.48 54.00 -14.52 21.72 38.50 19.64 41.13 0.75 -- -- Average 3 17475.00 52.72 68.20 -15.48 34.96 40.05 24.20 47.10 0.61 -- -- Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 11650.00 49.69 74.00 -24.31 31.93 38.50 19.64 41.13 0.75 -- -- Peak 2 11650.00 39.45 54.00 -14.55 21.69 38.50 19.64 41.13 0.75 -- -- Average 3 17475.00 52.78 68.20 -15.42 35.02 40.05 24.20 47.10 0.61 -- -- Peak

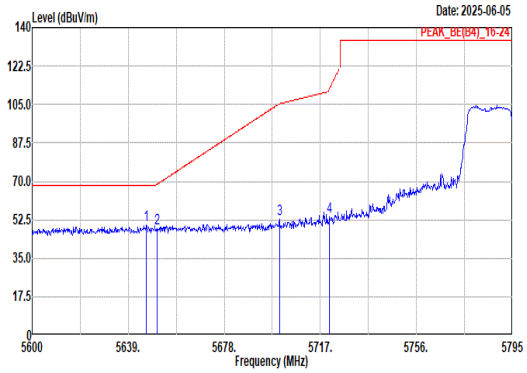
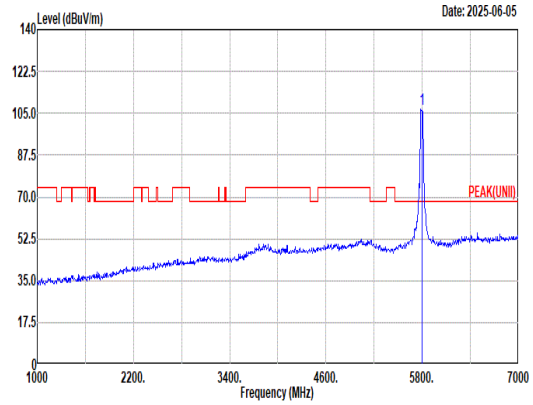
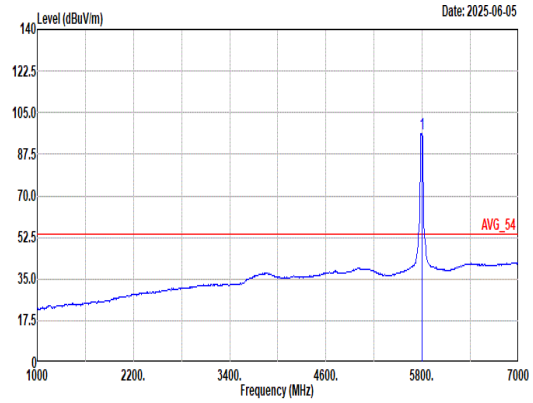
Mode	6	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH165_5825MHz	
ANT	2	
Pol.	Horizontal	Vertical
10.6G ~18G Avg		

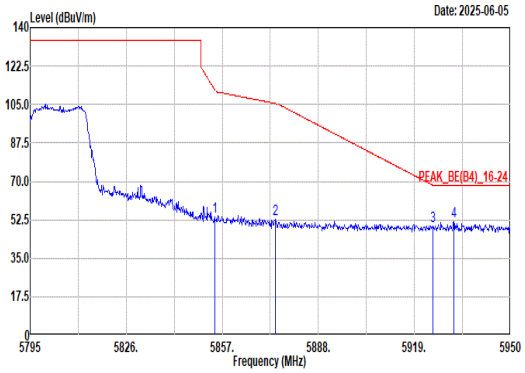
Mode	7	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5638.29 61.62 68.20 -6.58 50.21 33.13 13.60 35.32 0.00 242 224 Peak 2 5655.80 60.90 72.51 -11.61 49.38 33.23 13.62 35.33 0.00 242 224 Peak 3 5711.29 74.63 108.36 -33.73 62.76 33.55 13.68 35.36 0.00 242 224 Peak 4 5720.44 77.06 111.79 -34.73 65.16 33.58 13.69 35.37 0.00 242 224 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 5755.00 111.08 ------ ------ 99.03 33.70 13.74 35.39 0.00 242 224 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 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 5755.00 100.96 ------ ------ 88.91 33.70 13.74 35.39 0.00 242 224 Average

Mode	7	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 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 5854.84 53.24 111.16 -57.92 41.12 33.70 13.86 35.44 0.00 242 224 Peak 2 5872.98 52.89 105.77 -52.88 40.76 33.70 13.88 35.45 0.00 242 224 Peak 3 5923.87 52.31 69.03 -16.72 40.20 33.65 13.94 35.48 0.00 242 224 Peak 4 5929.92 52.05 68.20 -16.15 39.94 33.64 13.95 35.48 0.00 242 224 Peak	Blank

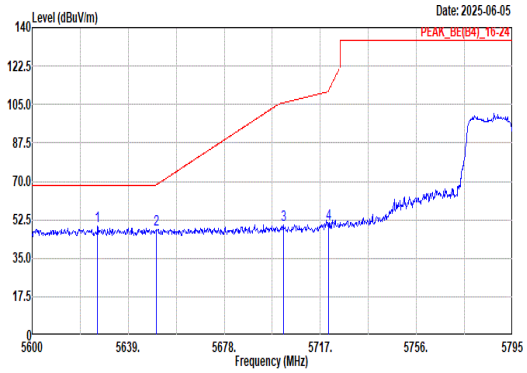
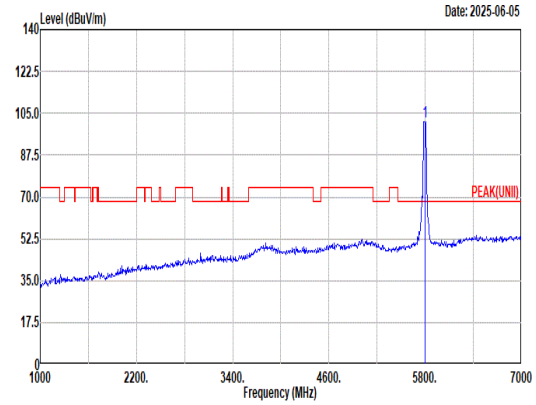
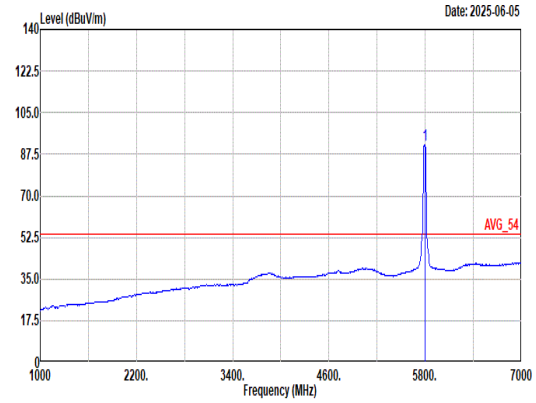
Mode	7	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5638.44 56.66 68.20 -11.54 45.25 33.13 13.60 35.32 0.00 269 205 Peak 2 5652.70 53.97 70.21 -16.24 42.47 33.22 13.61 35.33 0.00 269 205 Peak 3 5711.60 70.59 108.45 -37.86 58.72 33.55 13.68 35.36 0.00 269 205 Peak 4 5720.28 71.21 111.44 -40.23 59.31 33.58 13.69 35.37 0.00 269 205 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5755.00 106.29 ------ ------ 94.25 33.70 13.73 35.39 0.00 269 205 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5755.00 95.59 ------ ------ 83.54 33.70 13.74 35.39 0.00 269 205 Average

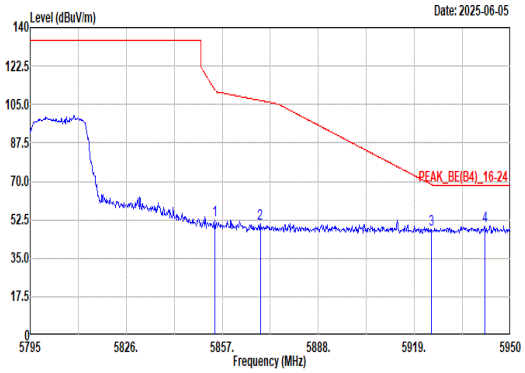
Mode	7	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.45 50.20 112.05 -61.85 38.08 33.70 13.86 35.44 0.00 269 205 Peak 2 5874.54 49.91 105.33 -55.42 37.78 33.70 13.88 35.45 0.00 269 205 Peak 3 5924.85 49.31 68.31 -19.00 37.20 33.65 13.94 35.48 0.00 269 205 Peak 4 5939.28 49.56 68.20 -18.64 37.47 33.62 13.96 35.49 0.00 269 205 Peak	Blank

Mode	8	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 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 5646.41 50.17 68.20 -18.03 38.71 33.18 13.61 35.33 0.00 378 231 Peak 2 5650.70 48.71 68.72 -20.01 37.23 33.20 13.61 35.33 0.00 378 231 Peak 3 5700.43 52.57 105.32 -52.75 40.76 33.50 13.67 35.36 0.00 378 231 Peak 4 5720.71 53.70 112.41 -58.71 41.80 33.58 13.69 35.37 0.00 378 231 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 5795.00 106.73 ------ ------ 94.66 33.70 13.77 35.40 0.00 378 231 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 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 5795.00 96.41 ------ ------ 84.33 33.70 13.79 35.41 0.00 378 231 Average

Mode	8	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
ANT	2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Blank

	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	5854.52	53.76	111.89	-58.13	41.64	33.70	13.86	35.44	0.00	378	231	Peak
2	5874.05	52.61	105.47	-52.86	40.48	33.70	13.88	35.45	0.00	378	231	Peak
3	5924.89	49.58	68.28	-18.70	37.47	33.65	13.94	35.48	0.00	378	231	Peak
4	5931.71	51.53	68.20	-16.67	39.42	33.64	13.95	35.48	0.00	378	231	Peak

Mode	8	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 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 5626.52 49.68 68.20 -18.52 38.36 33.06 13.58 35.32 0.00 351 191 Peak 2 5650.51 48.11 68.58 -20.47 36.63 33.20 13.61 35.33 0.00 351 191 Peak 3 5701.99 50.27 105.76 -55.49 38.45 33.51 13.67 35.36 0.00 351 191 Peak 4 5720.32 50.54 111.52 -60.98 38.64 33.58 13.69 35.37 0.00 351 191 Peak	 Site : 03CH21-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C03A18EN_240711 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 5795.00 101.61 ------ ------ 89.54 33.70 13.78 35.41 0.00 351 191 Peak
Avg	Blank	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 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 5795.00 91.53 ------ ------ 79.46 33.70 13.78 35.41 0.00 351 191 Average

Mode	8	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
ANT	2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE(B4)_16-24 3m DRH18-E_LE2C03A18EN_240711 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 5854.68 52.47 111.54 -59.07 40.35 33.70 13.86 35.44 0.00 351 191 Peak 2 5869.25 50.85 106.81 -55.96 38.73 33.70 13.87 35.45 0.00 351 191 Peak 3 5924.43 48.14 68.62 -20.48 36.03 33.65 13.94 35.48 0.00 351 191 Peak 4 5941.63 49.88 68.20 -18.32 37.79 33.62 13.96 35.49 0.00 351 191 Peak	Blank