FCC RADIO TEST REPORT

FCC ID	:	**ACJ9TGWL24A**
Equipment	:	**Radio Module**
Brand Name	:	**Panasonic**
Model Name	:	**FZ-40(mk3)**
Applicant	:	**Panasonic Corporation of North America** **Two Riverfront Plaza, Newark, New Jersey, 07102-5490, USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Aug. 15, 2025 and testing was performed from Aug. 26, 2025 to Oct. 09, 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 partial 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

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History of this test report

Report No.	Version	Description	Issue Date
FR4D1251-01E	01	Initial issue of report	Nov. 12, 2025
FR4D1251-01E	02	Revise Page 4 and Page 7 This report is an updated version, replacing the report issued on Nov. 12, 2025.	Nov. 19, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.403	6dB & 26dB Bandwidth	-	See Note
-	2.1049	99% Occupied Bandwidth	-	See Note
3.1	15.407(a)	Maximum Conducted Output Power	Pass	-
-	15.407(a)	Power Spectral Density	-	See Note
3.2	15.407(b)	Unwanted Emissions	Pass	13.42 dB under the limit at 11191.00 MHz
-	15.207	AC Conducted Emission	-	See Note
3.3	15.203	Antenna Requirement	Pass	-

Note:

1. For host device, the spot check Radiated Spurious Emission and complies with the limit in this test report.
2. For host device, the spot check Conducted Output Power is no difference after compared to module (Model: Panasonic WL24A).

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: Keven Cheng

Report Producer: Aya Yang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Specification is subject to this standard	
General Specs	Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax/be, Wi-Fi 5GHz 802.11a/n/ac/ax/be, Wi-Fi 6GHz 802.11a/ax/be
Tx / Rx Frequency	5725 MHz ~ 5850 MHz
Type of Modulation	802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax/be: OFDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)

Antenna Information				
Antenna	Brand Name	Panasonic	**Peak Gain**	Aux Ant. (Chain A): 5.01 dBi Main Ant. (Chain B): 0.48 dBi
	Model Name	Main Antenna: N1ZYYY000435 Aux Antenna: N1ZYYY000474	**Type**	PIFA Antenna

Remark:

1. MIMO Main+ Aux Ant. Directional Gain is a calculated result from MIMO Main Ant. and MIMO Aux Ant..The formula used in calculation is documented in section 1.1.1.
2. Power of MIMO Main Ant. + Aux Ant. is a calculated result from sum of the power Main Ant. and MIMO Aux Ant..
3. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
4. The product was installed into Portable Computer (Brand Name: Panasonic, Model Name: FZ-40(mk3) during test.

Specification of Accessory		
AC Adapter	**Brand Name**	Panasonic
	Model Name	CF-AA5713A
Battery	**Brand Name**	Panasonic
	Model Name	FZ-VZSU1XU

1.1.1 Antenna Directional Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

Array Gain = 10 log(NANT/NSS) dB.

$$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

As minimum N_{SS}=1 is supported by EUT, the formula can be simplified as:

Directional gain = $10*\log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ dBi

Where G1, G2….GN denote single antenna gain.

The directional gain “DG” is calculated as following table.

	Chain Port 0 Chain A (dBi)	Chain Port 1 Chain B (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
5.8G Band	5.01	0.48	5.01	6.05	0.00	0.05

Calculation example:

If a device has two antenna, G_{ANT1}= 5.01 dBi; G_{ANT2}=0.48 dBi

Directional gain of power measurement = max(5.01, 0.48) + 0 = 5.01 dBi

Directional gain of PSD derived from formula which is

10 x log { { [10^ (5.01 dBi / 20) + 10^ (0.48 dBi / 20)] ^ 2 } / 2 }

= 6.05 dBi

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)

Power and PSD limit reduction = Composite gain – 6dBi, (min = 0)

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, 03CH11-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 KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- FCC Part 15 Subpart E
- ANSI C63.10-2020

Remark:

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

2 Test Configuration of Equipment Under Test

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

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 and 802.11be EHT40.
2. The above Frequency and Channel with "#" are 802.11ac VHT80 and 802.11ax HE80 and 802.11be EHT80.

2.2 Test Mode

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

MIMO Mode

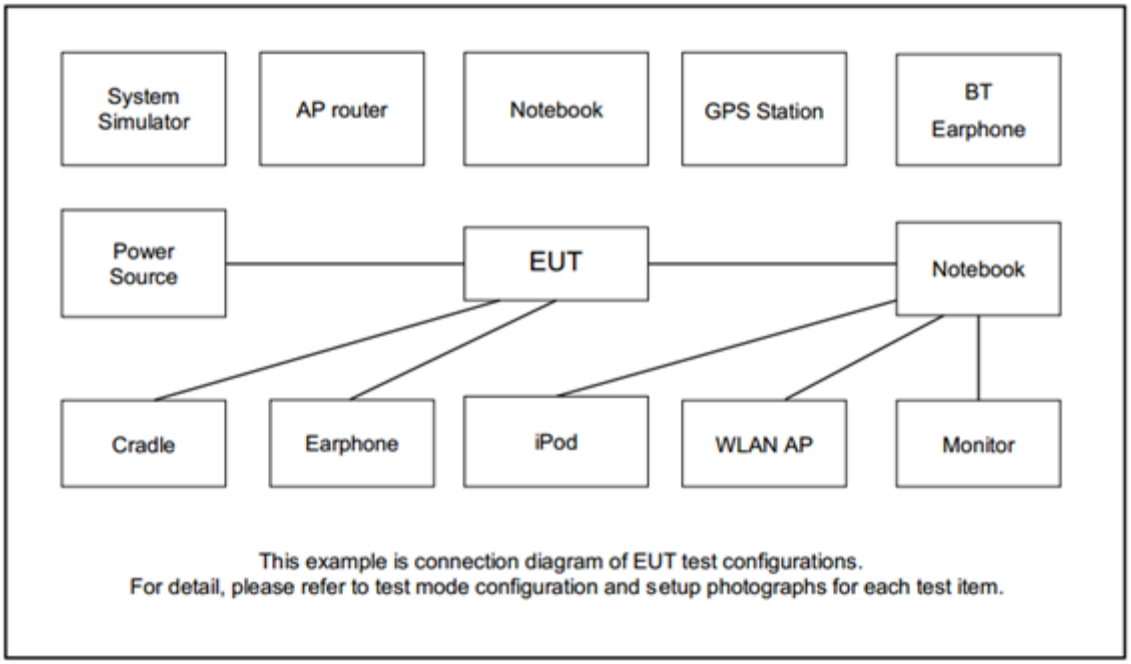
Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0
802.11ax HE20(Covered by EHT20)	MCS0
802.11ax HE40(Covered by EHT40)	MCS0
802.11ax HE80(Covered by EHT80)	MCS0
802.11be EHT20	MCS0
802.11be EHT40	MCS0
802.11be EHT80	MCS0

SISO Mode

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(Covered by EHT20)	MCS0
802.11ax HE40(Covered by EHT40)	MCS0
802.11ax HE80(Covered by EHT80)	MCS0
802.11be EHT20	MCS0
802.11be EHT40	MCS0
802.11be EHT80	MCS0

Remark: The detailed Radiated test modes are shown in Appendix B.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	iPod Earphone	Apple	A1285	DoC	N/A	UnShielded, 1.2m

2.5 EUT Operation Test Setup

The RF test items, utility “DRTU Version:DRTU 0.8662.23.150.0” 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 Maximum Conducted Output Power Measurement

3.1.1 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.

3.1.2 Measuring Instruments

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

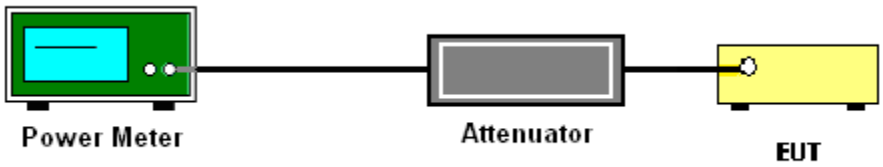
3.1.3 Test Procedures

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

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.2 Unwanted Emissions Measurement

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

3.2.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 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.

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

   (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

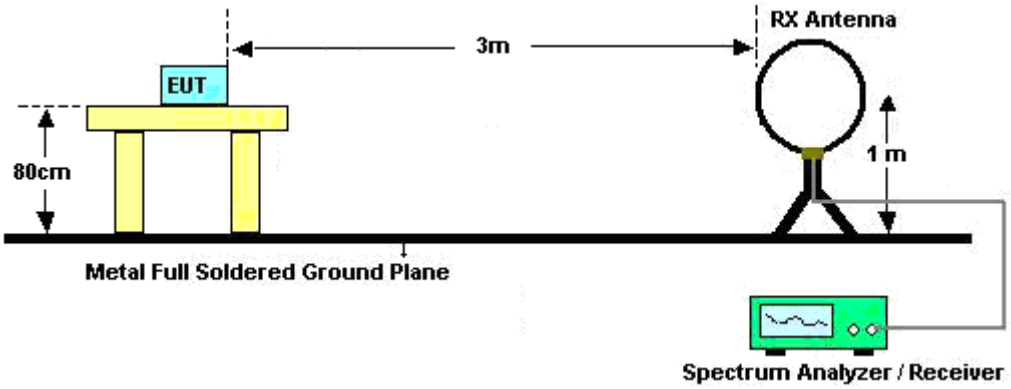
   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

   (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.

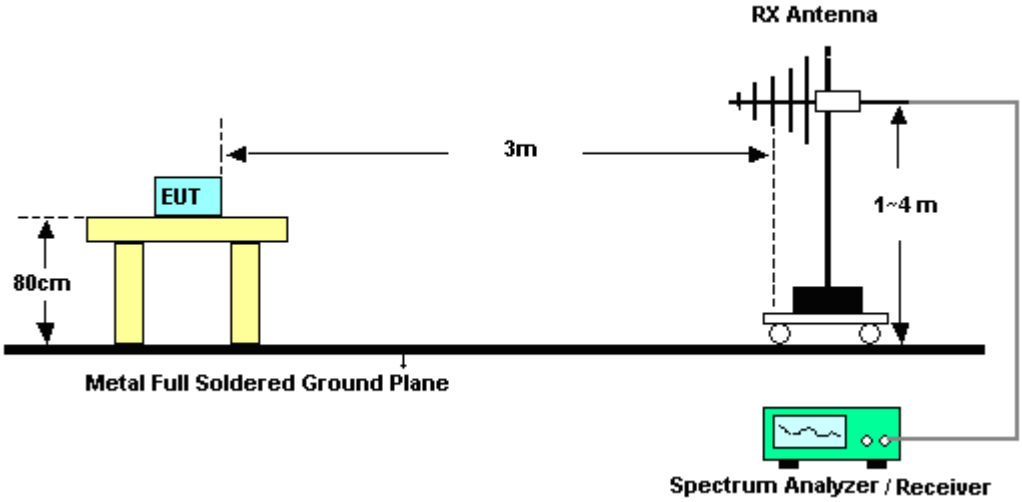
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies.
   When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

3.2.4 Test Setup

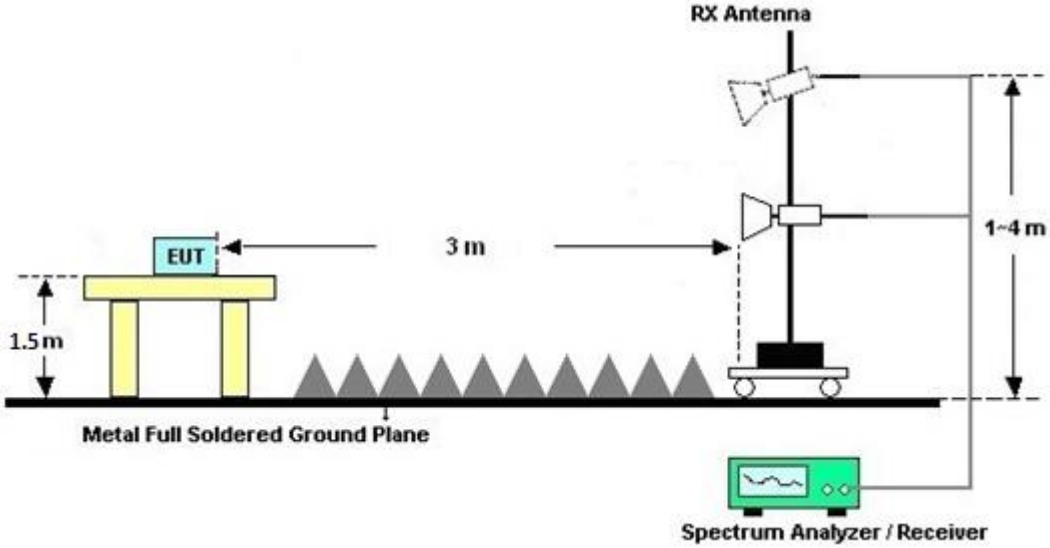
For radiated emissions below 30MHz



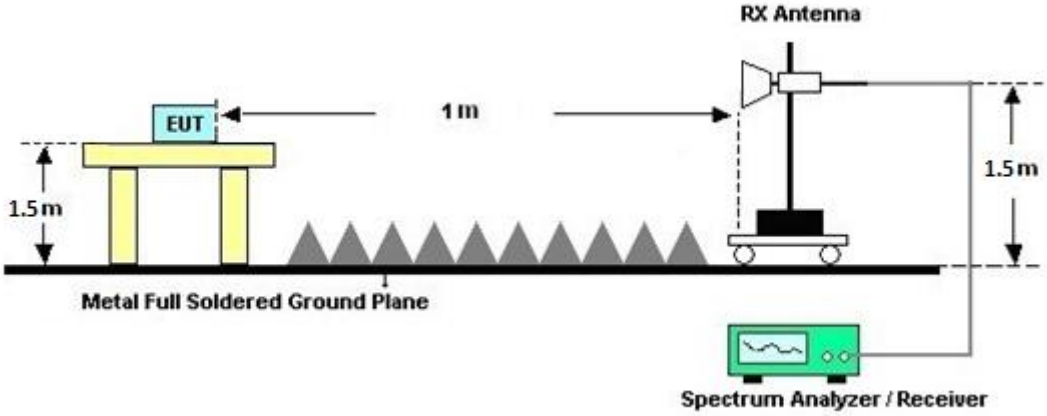
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

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

3.2.6 Test Result of Radiated Band Edges

Please refer to Appendix B.

3.2.7 Duty Cycle

Please refer to Appendix C.

3.2.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B.

3.3 Antenna Requirements

3.3.1 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.

3.3.2 Antenna Anti-Replacement Construction

Unique (non-standard) antenna connector.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Aug. 26, 2025~ Oct. 09, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Aug. 26, 2025~ Oct. 09, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz~40GHz	Jan.14, 2025	Aug. 26, 2025~ Oct. 09, 2025	Jan.13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Aug. 26, 2025~ Oct. 09, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_240513	N/A	Conducted Other Test Item	N/A	Aug. 26, 2025~ Oct. 09, 2025	N/A	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Nov. 27, 2024	Sep. 24, 2025 ~ Sep. 27, 2025	Nov. 26, 2025	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 18, 2024	Sep. 24, 2025 ~ Sep. 27, 2025	Dec. 17, 2025	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Sep. 15, 2025	Sep. 24, 2025 ~ Sep. 27, 2025	Sep. 14, 2026	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1230	18GHz~40GHz	Oct. 25, 2024	Sep. 24, 2025 ~ Sep. 27, 2025	Oct. 24, 2025	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 07, 2024	Sep. 24, 2025 ~ Sep. 27, 2025	Dec. 06, 2025	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 24, 2025	Sep. 24, 2025 ~ Sep. 27, 2025	Mar. 23, 2026	Radiation (03CH11-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900249	1GHz~18GHz	Jan. 21, 2025	Sep. 24, 2025 ~ Sep. 27, 2025	Jan. 20, 2026	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 26, 2025	Sep. 24, 2025 ~ Sep. 27, 2025	May 25, 2026	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 14, 2024	Sep. 24, 2025 ~ Sep. 27, 2025	Oct. 13, 2025	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 22, 2025	Sep. 24, 2025 ~ Sep. 27, 2025	Jul. 21, 2026	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 24, 2025 ~ Sep. 27, 2025	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Sep. 24, 2025 ~ Sep. 27, 2025	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Sep. 24, 2025 ~ Sep. 27, 2025	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Sep. 24, 2025 ~ Sep. 27, 2025	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200722	N/A	Mar. 03, 2025	Sep. 24, 2025 ~ Sep. 27, 2025	Mar. 02,2026	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	N/A	Aug. 26, 2025	Sep. 24, 2025 ~ Sep. 27, 2025	Aug. 25,2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	Mar. 05, 2025	Sep. 24, 2025 ~ Sep. 27, 2025	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 05, 2025	Sep. 24, 2025 ~ Sep. 27, 2025	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 05, 2025	Sep. 24, 2025 ~ Sep. 27, 2025	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	805139 2	30M~40G	May 10, 2025	Sep. 24, 2025 ~ Sep. 27, 2025	May 09, 2026	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40SS	SN3	6.75GHz High Pass Filter	Sep. 09, 2025	Sep. 24, 2025 ~ Sep. 27, 2025	Sep. 08, 2026	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-	SN11	1.53GHz Low	Sep. 09, 2025	Sep. 24, 2025 ~	Sep. 08, 2026	Radiation

		1530-8000-40SS		Pass Filter		Sep. 27, 2025		(03CH11-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.4 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.3 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:	Junyu Jhou	Temperature:	21~25	°C
Test Date:	2025/8/26~2025/10/09	Relative Humidity:	51~54	%

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
					Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B	
11a	6Mbps	1	149	5745	8.50	8.60		30.00	30.00	5.01	0.48	Pass
11a	6Mbps	1	157	5785	8.50	8.50		30.00	30.00	5.01	0.48	Pass
11a	6Mbps	1	165	5825	8.60	8.60		30.00	30.00	5.01	0.48	Pass
HT20	MCS0	1	149	5745	8.30	8.50		30.00	30.00	5.01	0.48	Pass
HT20	MCS0	1	157	5785	8.30	8.40		30.00	30.00	5.01	0.48	Pass
HT20	MCS0	1	165	5825	8.40	8.50		30.00	30.00	5.01	0.48	Pass
HT40	MCS0	1	151	5755	8.30	8.50		30.00	30.00	5.01	0.48	Pass
HT40	MCS0	1	159	5795	8.70	8.40		30.00	30.00	5.01	0.48	Pass
VHT20	MCS0	1	149	5745	8.40	8.60		30.00	30.00	5.01	0.48	Pass
VHT20	MCS0	1	157	5785	8.30	8.40		30.00	30.00	5.01	0.48	Pass
VHT20	MCS0	1	165	5825	8.50	8.50		30.00	30.00	5.01	0.48	Pass
VHT40	MCS0	1	151	5755	8.40	8.50		30.00	30.00	5.01	0.48	Pass
VHT40	MCS0	1	159	5795	8.30	8.40		30.00	30.00	5.01	0.48	Pass
VHT80	MCS0	1	155	5775	8.60	8.70		30.00	30.00	5.01	0.48	Pass

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B	
HT20	MCS0	2	149	5745	8.30	8.50	11.41	30.00		5.01		Pass
HT20	MCS0	2	157	5785	8.30	8.40	11.36	30.00		5.01		Pass
HT20	MCS0	2	165	5825	8.30	8.50	11.41	30.00		5.01		Pass
HT40	MCS0	2	151	5755	8.30	8.50	11.41	30.00		5.01		Pass
HT40	MCS0	2	159	5795	8.30	8.40	11.36	30.00		5.01		Pass
VHT20	MCS0	2	149	5745	8.40	8.60	11.51	30.00		5.01		Pass
VHT20	MCS0	2	157	5785	8.30	8.40	11.36	30.00		5.01		Pass
VHT20	MCS0	2	165	5825	8.40	8.50	11.46	30.00		5.01		Pass
VHT40	MCS0	2	151	5755	8.40	8.50	11.46	30.00		5.01		Pass
VHT40	MCS0	2	159	5795	8.30	8.40	11.36	30.00		5.01		Pass
VHT80	MCS0	2	155	5775	8.30	8.30	11.31	30.00		5.01		Pass

Report Number : FR4D1251-01E

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
						Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B	
EHT20	MCS0	1	149	5745	Full	8.70	8.40		30.00	30.00	5.01	0.48	Pass
EHT20	MCS0	1	157	5785	Full	8.70	8.30		30.00	30.00	5.01	0.48	Pass
EHT20	MCS0	1	165	5825	Full	8.30	8.40		30.00	30.00	5.01	0.48	Pass
EHT40	MCS0	1	151	5755	Full	8.70	8.40		30.00	30.00	5.01	0.48	Pass
EHT40	MCS0	1	159	5795	Full	8.60	8.30		30.00	30.00	5.01	0.48	Pass
EHT80	MCS0	1	155	5775	Full	8.60	8.70		30.00	30.00	5.01	0.48	Pass

U-NII-3 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B	
EHT20	MCS0	2	149	5745	Full	8.30	8.40	11.36	30.00		5.01		Pass
EHT20	MCS0	2	157	5785	Full	8.60	8.70	11.66	30.00		5.01		Pass
EHT20	MCS0	2	165	5825	Full	8.30	8.40	11.36	30.00		5.01		Pass
EHT40	MCS0	2	151	5755	Full	8.30	8.40	11.36	30.00		5.01		Pass
EHT40	MCS0	2	159	5795	Full	8.60	8.70	11.66	30.00		5.01		Pass
EHT80	MCS0	2	155	5775	Full	8.60	8.70	11.66	30.00		5.01		Pass

Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Daniel Lee, Fu Chen, Troye Hsieh	**Temperature :**	19.1~21.9°C
		Relative Humidity :	51.1~66.9%

Note symbol

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

B1 Radiated Spurious Emission Test Modes

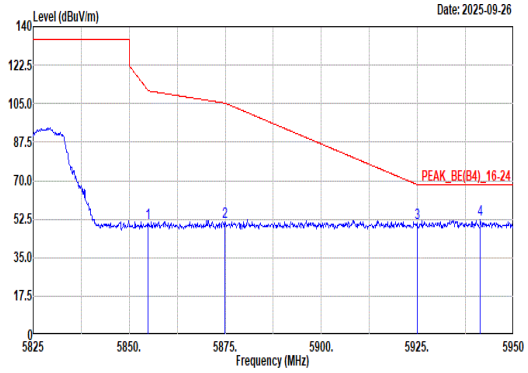
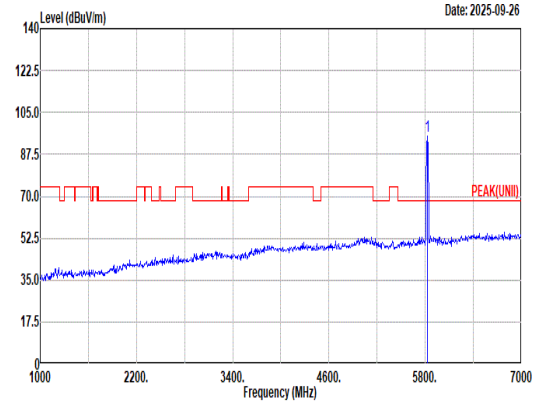
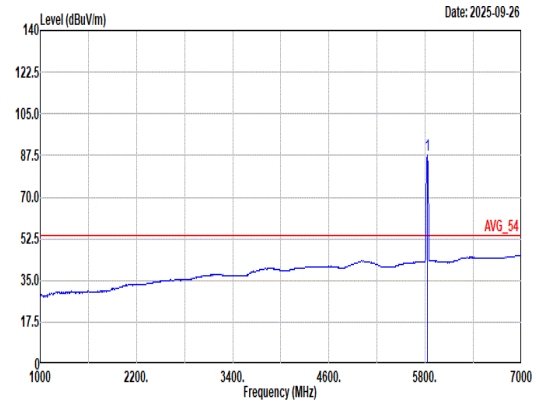
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 14	U-NII-3	5.725-5.85	Chain B	802.11a	165	5825	6Mbps	-	-
Mode 15	U-NII-3	5.725-5.85	Chain A	802.11a	165	5825	6Mbps	-	-
Mode 16	U-NII-3	5.725-5.85	Chain B+A	802.11be EHT20	165	5825	MCS0	Full RU	-
Mode 17	U-NII-3	5.725-5.85	Chain B+A	802.11be EHT80	155	5775	MCS0	Full RU	-

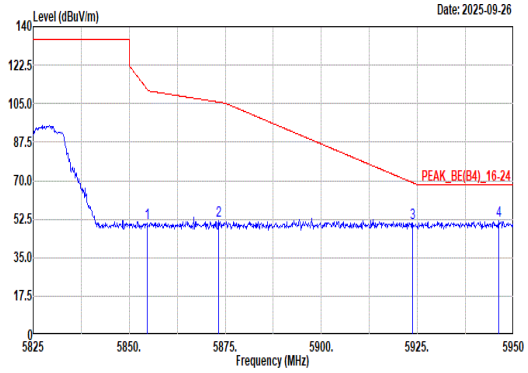
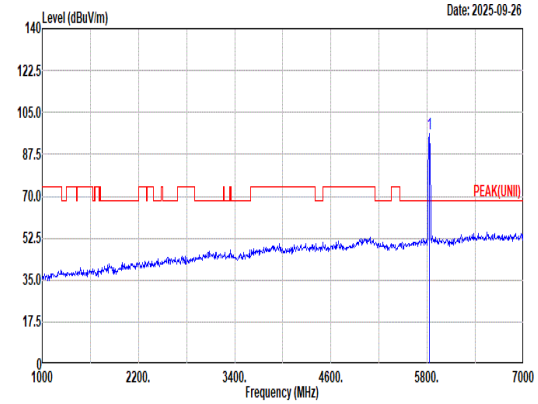
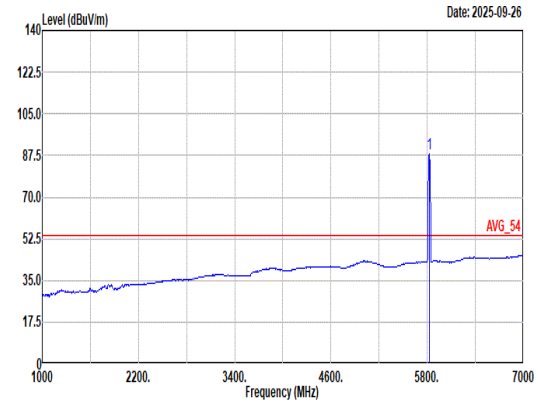
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 18	U-NII-3	5.725-5.85	Chain B	802.11a	165	5825	6Mbps	-	LF
Mode 19	U-NII-3	5.725-5.85	Chain B	802.11a	165	5825	6Mbps	-	SHF

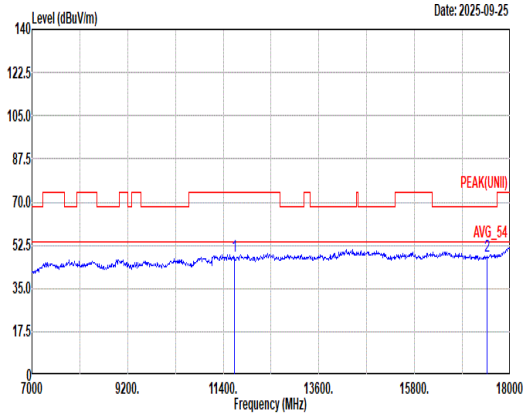
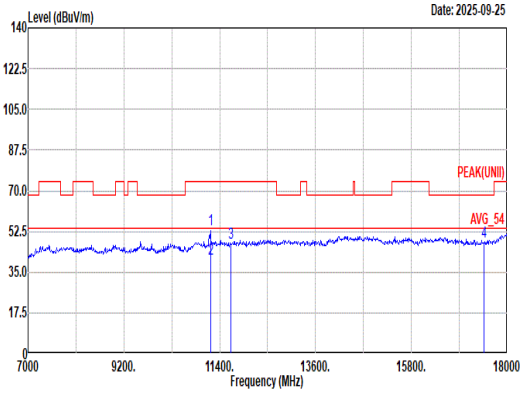
B2 Summary of each worse mode

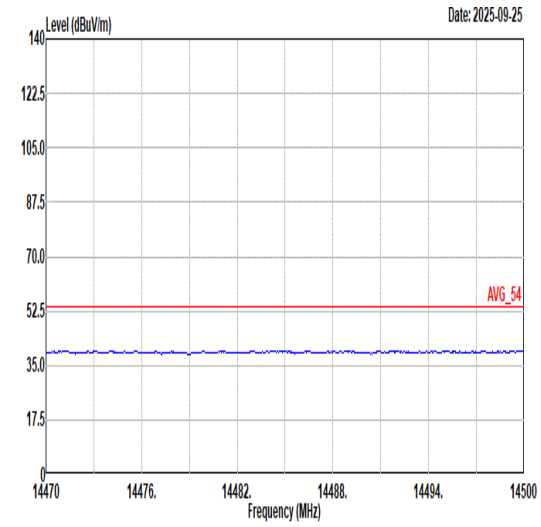
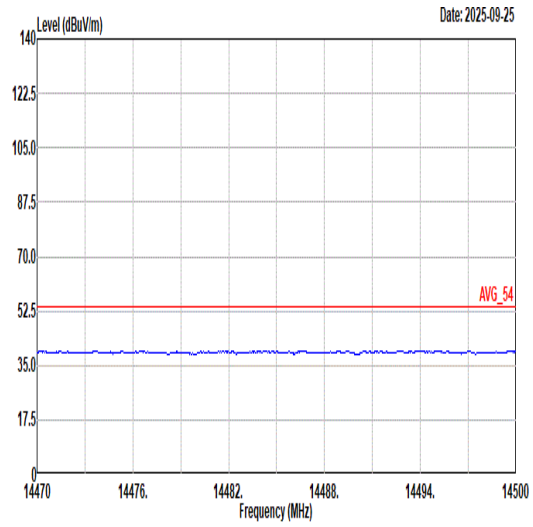
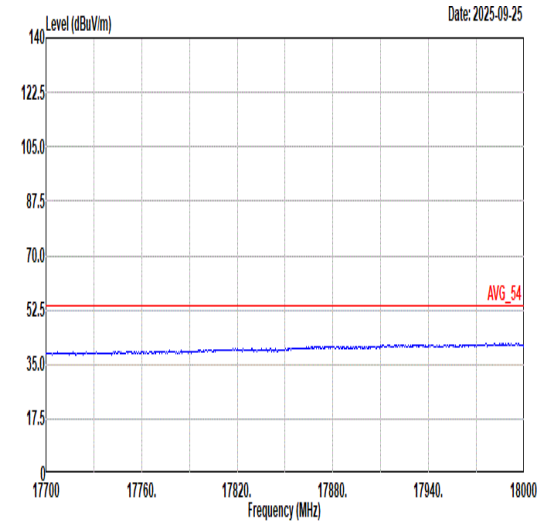
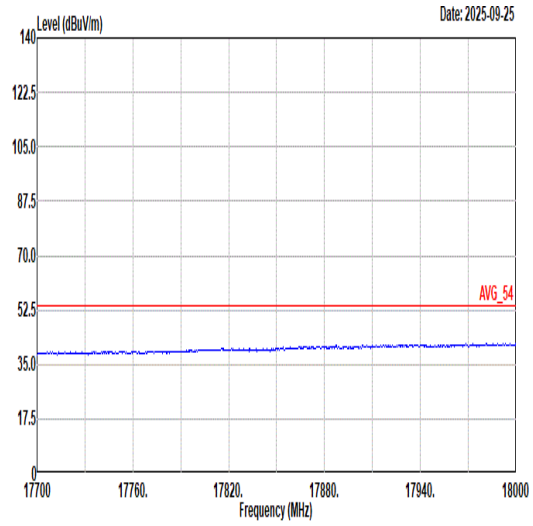
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
14	802.11a	165	5941.38	52.39	68.20	-15.81	H	Peak	Pass	-	Band Edge
	802.11a	165	11191.00	40.58	54.00	-13.42	V	Avg.	Pass	-	Harmonic
15	802.11a	165	5934.13	52.60	68.20	-15.60	V	Peak	Pass	-	Band Edge
	802.11a	165	11169.00	40.50	54.00	-13.50	V	Avg.	Pass	-	Harmonic
16	802.11be EHT20	165	5946.38	52.71	68.20	-15.49	V	Peak	Pass	Full RU	Band Edge
	802.11be EHT20	165	-	-	-	-	-	-	-	Full RU	Harmonic
17	802.11be EHT80	155	5937.58	52.84	68.20	-15.36	H	Peak	Pass	Full RU	Band Edge
	802.11be EHT80	155	-	-	-	-	-	-	-	Full RU	Harmonic

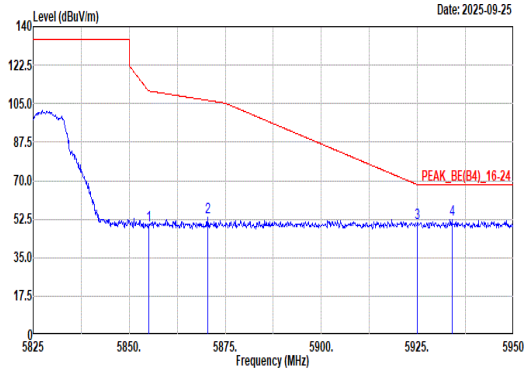
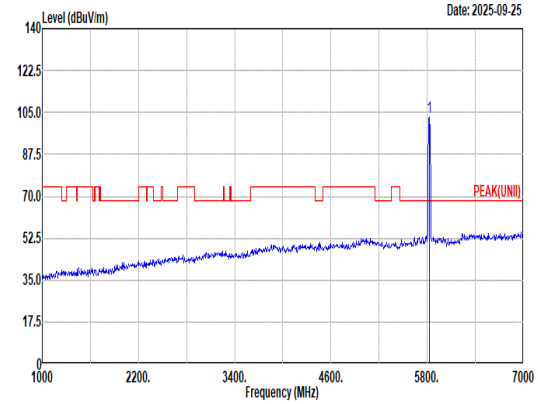
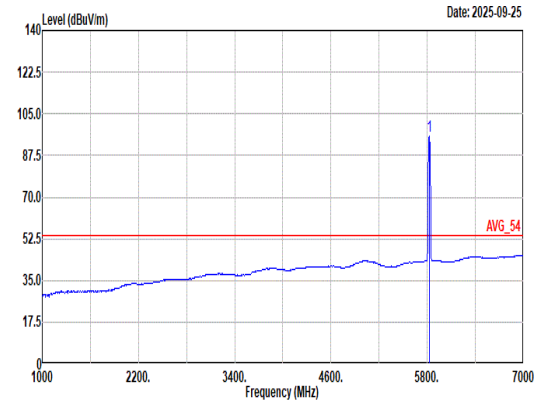
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
18	LF	165	79.47	32.79	40.00	-7.21	V	QP	Pass	-	LF
19	SHF	165	39963.19	49.77	54.00	-4.23	V	Avg.	Pass	-	SHF

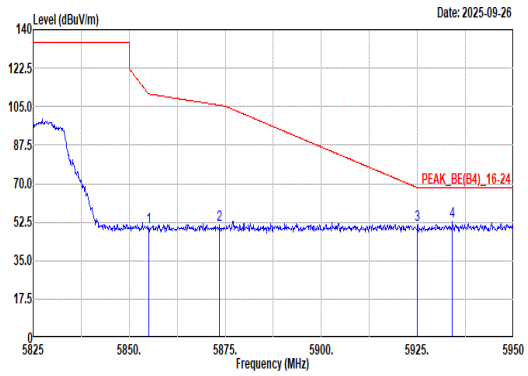
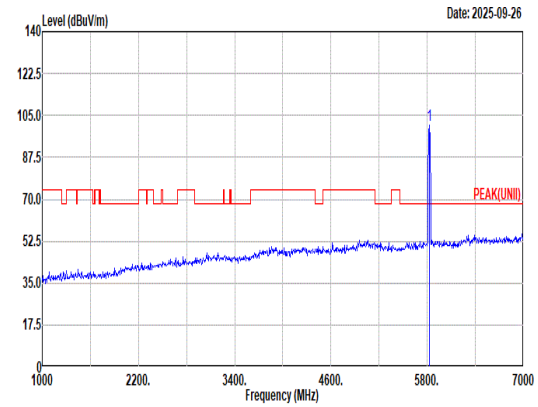
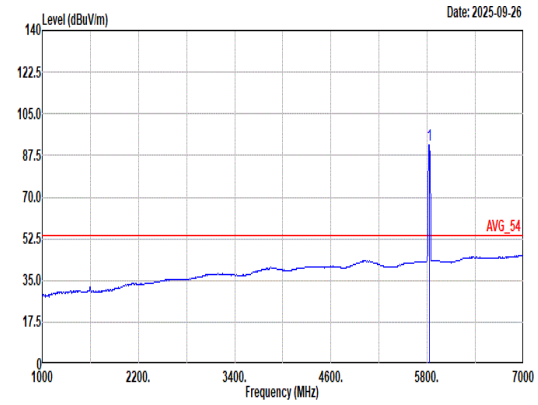
Mode	14	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	Chain B	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_250915 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.88 50.58 111.08 -60.50 39.26 33.92 10.26 32.86 0.00 195 105 Peak 2 5874.88 51.03 105.23 -54.20 39.58 34.00 10.32 32.87 0.00 195 105 Peak 3 5925.00 50.54 68.20 -17.66 38.80 34.15 10.48 32.89 0.00 195 105 Peak 4 5941.38 52.39 68.20 -15.81 40.58 34.18 10.53 32.90 0.00 195 105 Peak	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_250915 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 5825.00 95.03 ------ ------ 83.81 33.90 10.18 32.86 0.00 195 105 Peak
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_250915 HORIZONTAL : RBW:1000.000kHz VBW:0.510kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 87.66 ------ ------ 76.44 33.90 10.18 32.86 0.00 195 105 Average

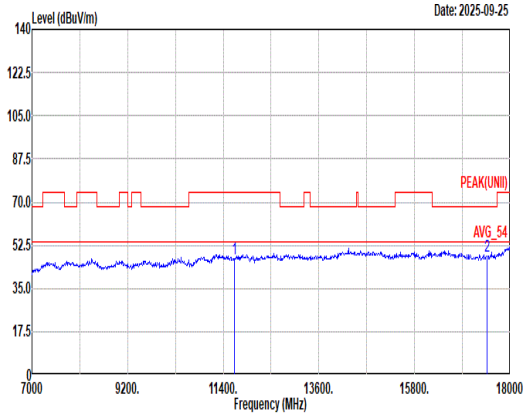
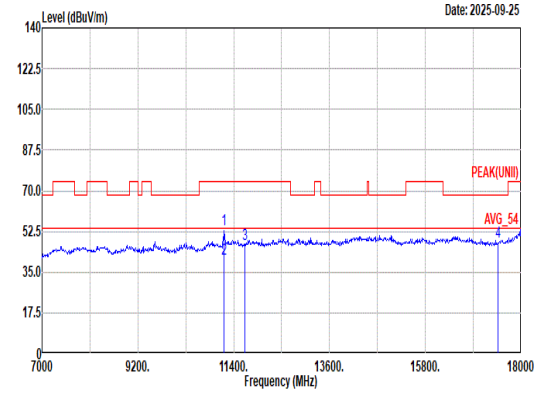
Mode	14	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	Chain B	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_250915 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.63 50.63 111.65 -61.02 39.32 33.92 10.25 32.86 0.00 100 239 Peak 2 5873.25 52.03 105.69 -53.66 40.60 33.99 10.31 32.87 0.00 100 239 Peak 3 5923.75 50.74 69.12 -18.38 39.00 34.15 10.48 32.89 0.00 100 239 Peak 4 5946.25 51.68 68.20 -16.52 39.84 34.19 10.55 32.90 0.00 100 239 Peak	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_250915 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 5825.00 96.36 ------ ------ 85.14 33.90 10.18 32.86 0.00 100 239 Peak
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_250915 VERTICAL : RBW:1000.000kHz VBW:0.510kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 88.49 ------ ------ 77.27 33.90 10.18 32.86 0.00 100 239 Average

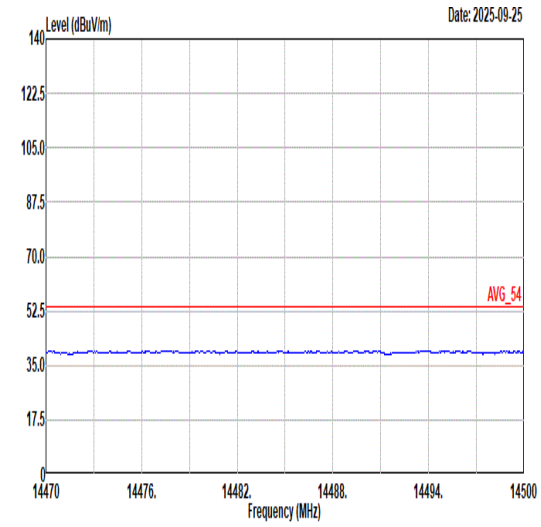
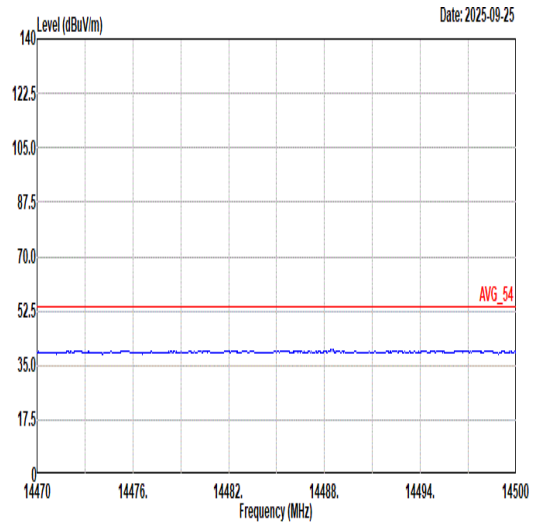
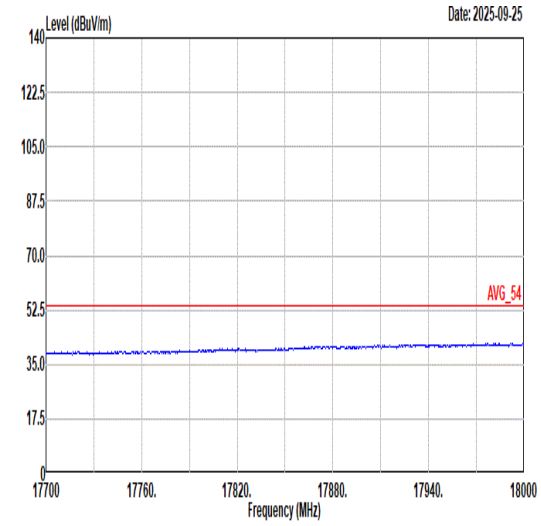
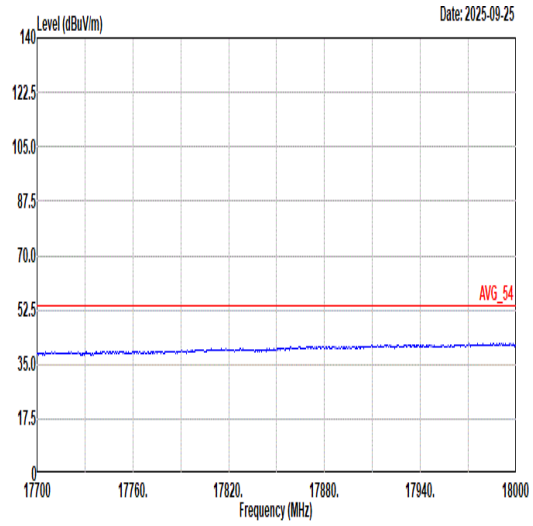
Mode	14	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	Chain B	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_1212_250327 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11650.00 47.95 74.00 -26.05 57.42 38.50 17.62 66.04 0.45 -- -- Peak 2 17475.00 48.04 68.20 -20.16 53.95 38.05 21.73 66.18 0.49 -- -- Peak	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_1212_250327 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 11191.00 53.55 74.00 -20.45 63.64 38.78 17.21 66.47 0.39 132 75 Peak 2 11191.00 40.58 54.00 -13.42 50.67 38.78 17.21 66.47 0.39 132 75 Average 3 11650.00 47.35 74.00 -26.65 56.82 38.50 17.62 66.04 0.45 -- -- Peak 4 17475.00 47.98 68.20 -20.22 53.89 38.05 21.73 66.18 0.49 -- -- Peak

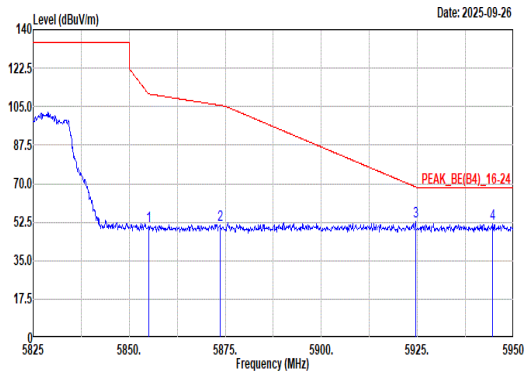
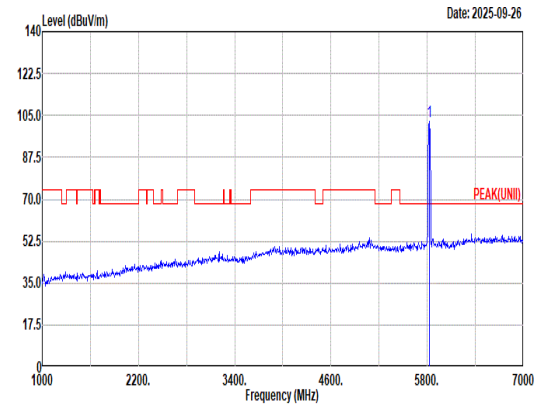
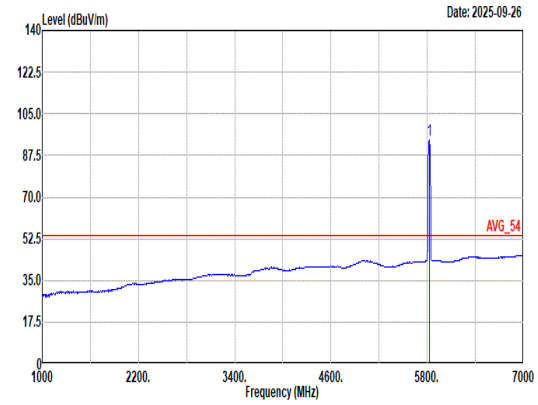
Mode	14	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	Chain B	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_1212_250327 HORIZONTAL	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_1212_250327 VERTICAL
17.7G ~18G Avg	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_1212_250327 HORIZONTAL	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_1212_250327 VERTICAL

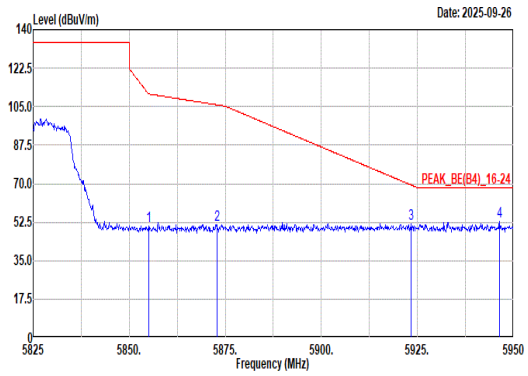
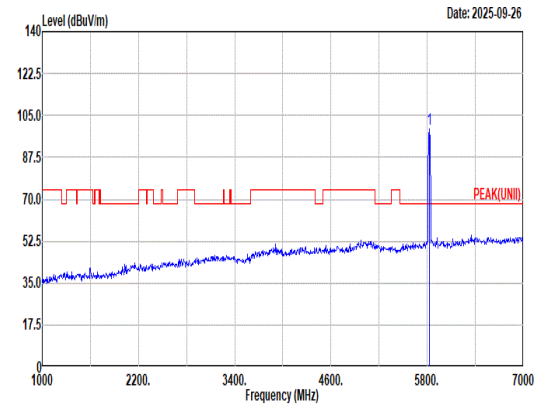
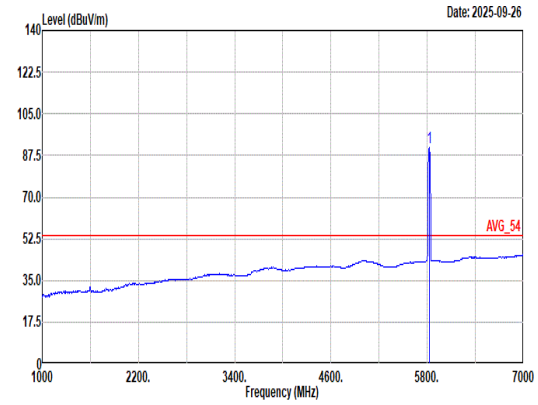
Mode	15	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	Chain A	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_250915 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5855.00 49.64 110.80 -61.16 38.32 33.92 10.26 32.86 0.00 221 131 Peak 2 5870.50 53.62 106.46 -52.84 42.20 33.98 10.31 32.87 0.00 221 131 Peak 3 5925.00 50.74 68.20 -17.46 39.00 34.15 10.48 32.89 0.00 221 131 Peak 4 5934.00 52.55 68.20 -15.65 40.76 34.17 10.51 32.89 0.00 221 131 Peak	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_250915 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 5825.00 103.05 ------ ------ 91.83 33.90 10.18 32.86 0.00 221 131 Peak
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_250915 HORIZONTAL : RBW:1000.000kHz VBW:0.510kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 95.44 ------ ------ 84.23 33.90 10.16 32.85 0.00 221 131 Average

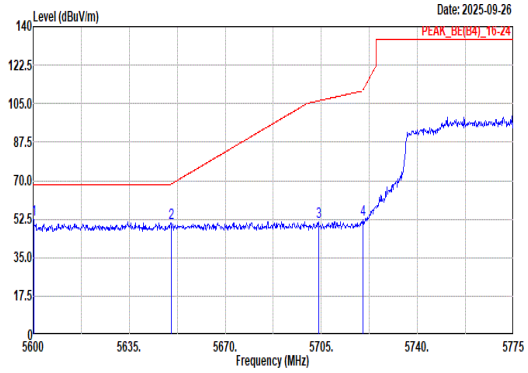
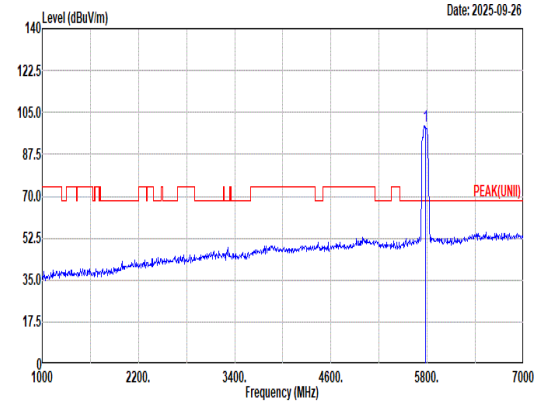
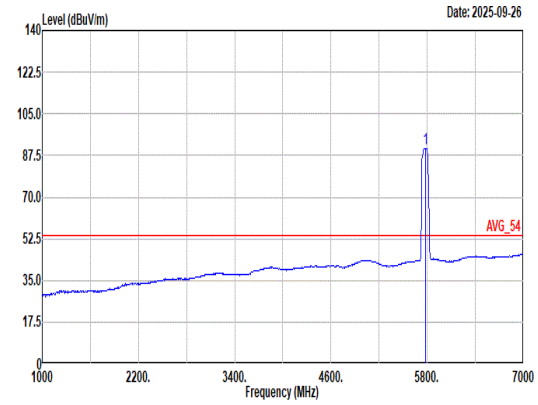
Mode	15	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	Chain A	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_250915 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5855.00 50.41 110.80 -60.39 39.09 33.92 10.26 32.86 0.00 374 117 Peak 2 5873.50 51.34 105.62 -54.28 39.90 33.99 10.32 32.87 0.00 374 117 Peak 3 5925.00 51.20 68.20 -17.00 39.46 34.15 10.48 32.89 0.00 374 117 Peak 4 5934.13 52.60 68.20 -15.60 40.81 34.17 10.51 32.89 0.00 374 117 Peak	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_250915 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 5825.00 100.64 ------ ------ 89.43 33.90 10.16 32.85 0.00 374 117 Peak
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_250915 VERTICAL : RBW:1000.000kHz VBW:0.510kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 92.05 ------ ------ 80.84 33.90 10.16 32.85 0.00 374 117 Average

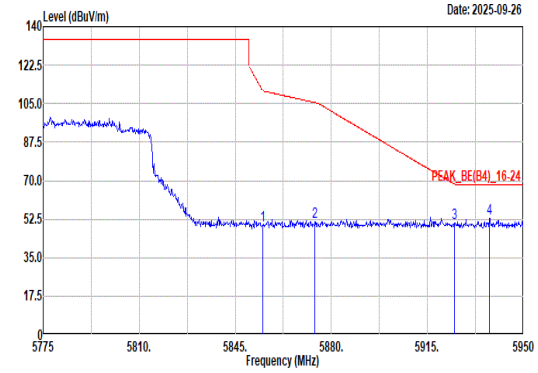
Mode	15	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	Chain A	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_1212_250327 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11650.00 47.11 74.00 -26.89 56.58 38.50 17.62 66.04 0.45 -- -- Peak 2 17475.00 48.02 68.20 -20.18 53.93 38.05 21.73 66.18 0.49 -- -- Peak	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_1212_250327 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 11169.00 53.50 74.00 -20.50 63.68 38.74 17.19 66.50 0.39 133 77 Peak 2 11169.00 40.50 54.00 -13.50 50.68 38.74 17.19 66.50 0.39 133 77 Average 3 11650.00 46.83 74.00 -27.17 56.30 38.50 17.62 66.04 0.45 -- -- Peak 4 17475.00 47.87 68.20 -20.33 53.78 38.05 21.73 66.18 0.49 -- -- Peak

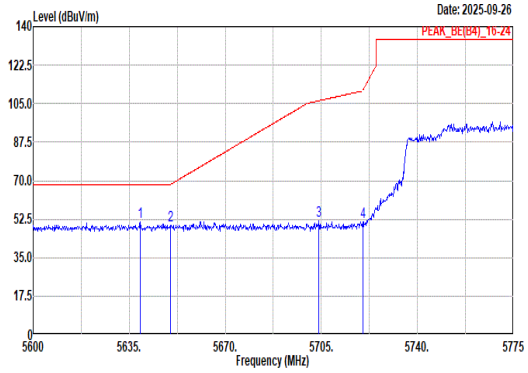
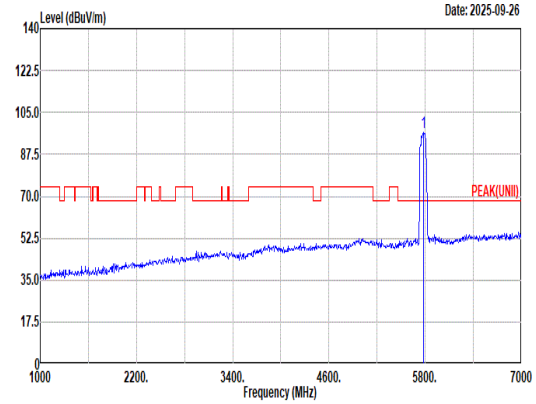
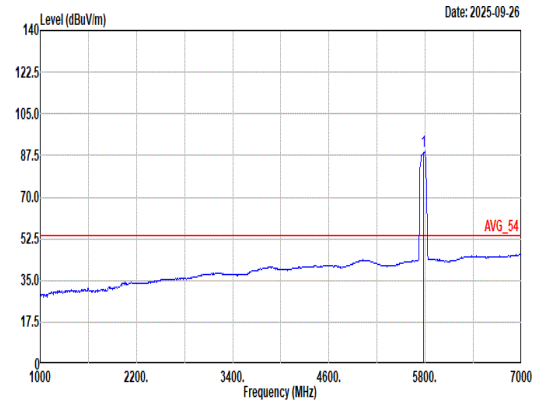
Mode	15	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	Chain A	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_1212_250327 HORIZONTAL	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_1212_250327 VERTICAL
17.7G ~18G Avg	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_1212_250327 HORIZONTAL	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_1212_250327 VERTICAL

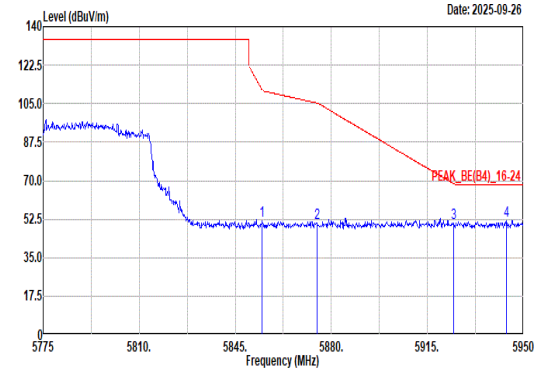
Mode	16	
	Band Edge	
	U-NII-3_5.725-5.85_802.11be EHT20_CH165_Full RU_5825MHz	
ANT	Chain B+A	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_250915 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5855.00 50.95 110.80 -59.85 39.63 33.92 10.26 32.86 0.00 216 129 Peak 2 5873.63 51.46 105.58 -54.12 40.02 33.99 10.32 32.87 0.00 216 129 Peak 3 5924.50 52.61 68.57 -15.96 40.87 34.15 10.48 32.89 0.00 216 129 Peak 4 5944.50 51.77 68.20 -16.43 39.94 34.19 10.54 32.90 0.00 216 129 Peak	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_250915 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 5825.00 102.34 ------ ------ 91.13 33.90 10.16 32.85 0.00 216 129 Peak
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_250915 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz 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 5825.00 93.98 ------ ------ 82.77 33.90 10.16 32.85 0.00 216 129 Average

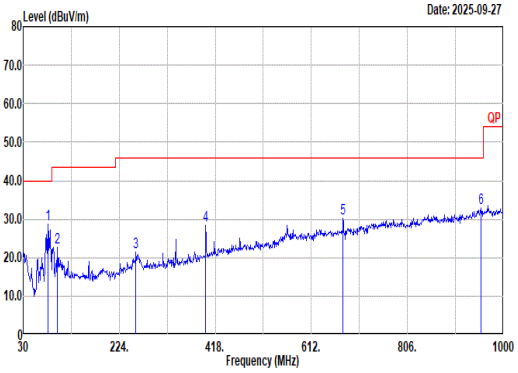
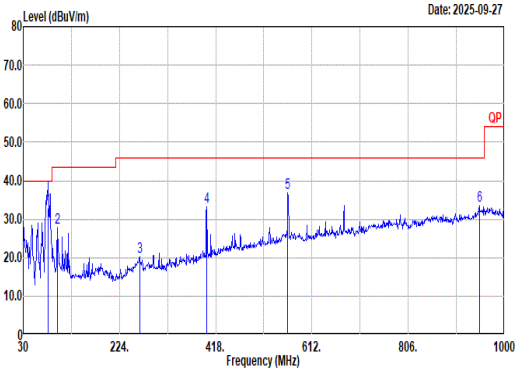
Mode	16	
	Band Edge	
	U-NII-3_5.725-5.85_802.11be EHT20_CH165_Full RU_5825MHz	
ANT	Chain B+A	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_250915 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5855.00 50.70 110.80 -60.10 39.38 33.92 10.26 32.86 0.00 373 119 Peak 2 5872.88 51.48 105.79 -54.31 40.05 33.99 10.31 32.87 0.00 373 119 Peak 3 5923.38 51.79 69.40 -17.61 40.06 34.15 10.47 32.89 0.00 373 119 Peak 4 5946.38 52.71 68.20 -15.49 40.87 34.19 10.55 32.90 0.00 373 119 Peak	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_250915 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 5825.00 99.32 ------ ------ 88.11 33.90 10.16 32.85 0.00 373 119 Peak
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_250915 VERTICAL : RBW:1000.000kHz VBW:0.010kHz 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 5825.00 90.66 ------ ------ 79.45 33.90 10.16 32.85 0.00 373 119 Average

Mode	17	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11be EHT80_CH155_Full RU_5775MHz	
ANT	Chain B+A	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_250915 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 5600.18 52.35 68.20 -15.85 42.00 32.70 10.42 32.77 0.00 200 135 Peak 2 5650.23 50.89 68.37 -17.48 40.35 33.00 10.33 32.79 0.00 200 135 Peak 3 5703.95 51.12 106.31 -55.19 40.27 33.42 10.24 32.81 0.00 200 135 Peak 4 5720.05 52.18 110.91 -58.73 41.29 33.48 10.22 32.81 0.00 200 135 Peak	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_250915 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 5775.00 99.55 ------ ------ 88.53 33.72 10.13 32.83 0.00 200 135 Peak
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_250915 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz 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 5775.00 90.37 ------ ------ 79.38 33.68 10.14 32.83 0.00 200 135 Average

Mode	17	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11be EHT80_CH155_Full RU_5775MHz	
ANT	Chain B+A	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_250915 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.98 49.54 110.86 -61.32 38.22 33.92 10.26 32.86 0.00 200 135 Peak 2 5874.05 51.11 105.47 -54.36 39.66 34.00 10.32 32.87 0.00 200 135 Peak 3 5924.80 50.57 68.35 -17.78 38.83 34.15 10.48 32.89 0.00 200 135 Peak 4 5937.58 52.84 68.20 -15.36 41.04 34.18 10.52 32.90 0.00 200 135 Peak	Blank

Mode	17	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11be EHT80_CH155_Full RU_5775MHz	
ANT	Chain B+A	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_250915 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 5639.03 51.05 68.20 -17.15 40.55 32.93 10.35 32.78 0.00 400 122 Peak 2 5650.05 49.76 68.24 -18.48 39.22 33.00 10.33 32.79 0.00 400 122 Peak 3 5704.13 51.95 106.36 -54.41 41.10 33.42 10.24 32.81 0.00 400 122 Peak 4 5720.05 51.18 110.91 -59.73 40.29 33.48 10.22 32.81 0.00 400 122 Peak	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_250915 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 5775.00 96.47 ------ ------ 85.42 33.76 10.12 32.83 0.00 400 122 Peak
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_250915 VERTICAL : RBW:1000.000kHz VBW:0.010kHz 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 5775.00 89.02 ------ ------ 77.91 33.86 10.09 32.84 0.00 400 122 Average

Mode	17	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11be EHT80_CH155_Full RU_5775MHz	
ANT	Chain B+A	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_250915 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 51.54 111.26 -59.72 40.22 33.92 10.26 32.86 0.00 400 122 Peak 2 5874.75 50.96 105.27 -54.31 39.51 34.00 10.32 32.87 0.00 400 122 Peak 3 5924.45 50.92 68.61 -17.69 39.18 34.15 10.48 32.89 0.00 400 122 Peak 4 5943.70 51.89 68.20 -16.31 40.06 34.19 10.54 32.90 0.00 400 122 Peak	Blank

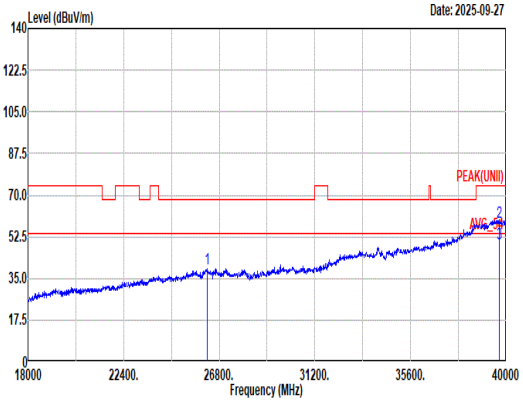
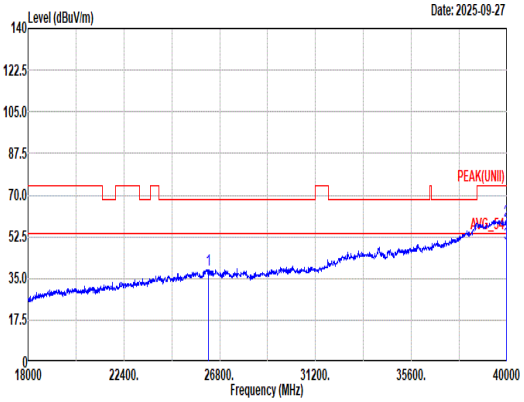
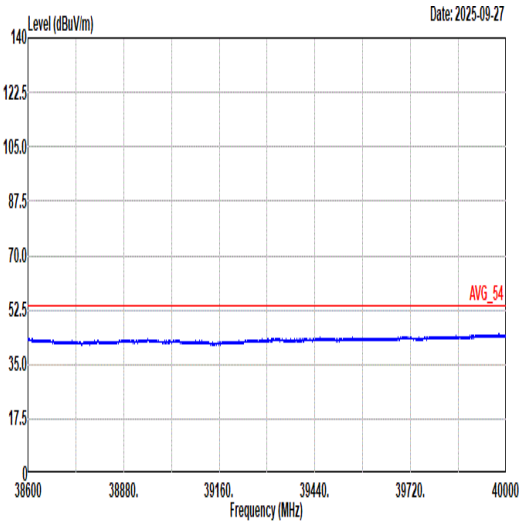
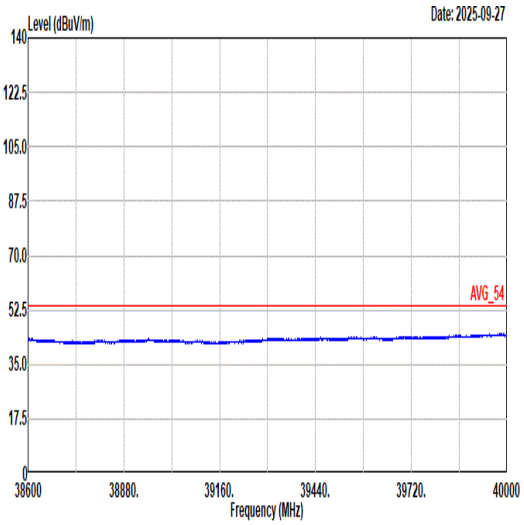
Mode	18	
	LF	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	Chain B	
Pol.	Horizontal	Vertical
QP/ Peak		

Site : 03CH11-HY
Condition: QP 3m BILOG_37059&01_241127 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	79.47	28.76	40.00	-11.24	46.08	13.67	1.29	32.33	0.05	--	--	Peak
2	98.87	22.62	43.50	-20.88	37.39	16.07	1.44	32.31	0.03	--	--	Peak
3	257.95	21.29	46.00	-24.71	31.45	19.75	2.23	32.20	0.06	--	--	Peak
4	398.60	28.31	46.00	-17.69	35.58	21.92	2.78	32.05	0.08	--	--	Peak
5	676.02	30.31	46.00	-15.69	31.62	26.68	3.61	32.21	0.61	--	--	Peak
6	954.41	32.86	46.00	-13.14	27.91	31.10	4.29	30.85	0.41	--	--	Peak

Site : 03CH11-HY
Condition: QP 3m BILOG_37059&01_241127 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	79.47	32.79	40.00	-7.21	50.11	13.67	1.29	32.33	0.05	150	340	QP
2	98.87	27.73	43.50	-15.77	42.50	16.07	1.44	32.31	0.03	--	--	Peak
3	264.74	20.31	46.00	-25.69	30.19	19.99	2.26	32.20	0.07	--	--	Peak
4	400.54	33.09	46.00	-12.91	40.29	21.98	2.79	32.05	0.08	--	--	Peak
5	563.50	36.92	46.00	-9.08	39.10	26.47	3.31	32.18	0.22	--	--	Peak
6	949.56	33.62	46.00	-12.38	28.91	30.93	4.28	30.90	0.40	--	--	Peak

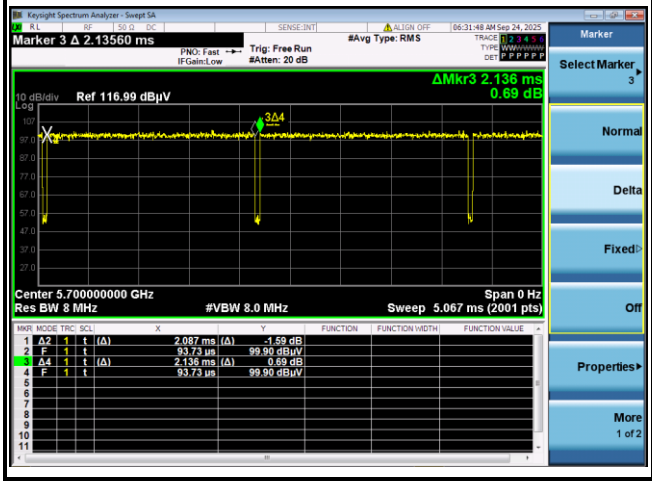
Mode	19	
	SHF	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	Chain B	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition: PEAK(UNII) 1m SHF_1230_241025 HORIZONTAL 1 26262.00 38.92 68.20 -29.28 34.80 39.20 27.36 52.90 -9.54 -- -- Peak 2 39669.88 58.85 74.00 -15.15 37.87 45.76 34.39 49.63 -9.54 150 152 PEAK 3 39669.88 49.64 54.00 -4.36 28.53 45.86 34.40 49.61 -9.54 150 152 Average	 Site : 03CH11-HY Condition: PEAK(UNII) 1m SHF_1230_241025 VERTICAL 1 26270.50 38.74 68.20 -29.46 34.62 39.20 27.36 52.90 -9.54 -- -- Peak 2 39963.19 58.96 74.00 -15.04 37.59 45.42 34.65 49.16 -9.54 150 253 PEAK 3 39963.19 49.77 54.00 -4.23 28.43 45.38 34.65 49.15 -9.54 150 253 Average
Avg	 Site : 03CH11-HY Condition: AVG_54 1m SHF_00994_250109 HORIZONTAL	 Site : 03CH11-HY Condition: AVG_54 1m SHF_00994_250109 VERTICAL

Appendix C. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
Chain A	802.11a	97.71	2087	0.479	0.51KHz
Chain B	802.11a	97.71	2087	0.479	0.51KHz
Chain B+A	5GHz 802.11be EHT20	98.88	-	-	10Hz
Chain B+A	5GHz 802.11be EHT80 Full RU	98.76	-	-	10Hz

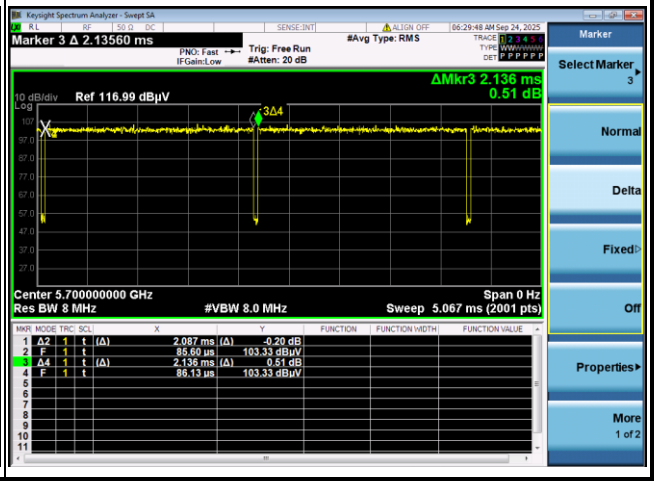
< Chain A >

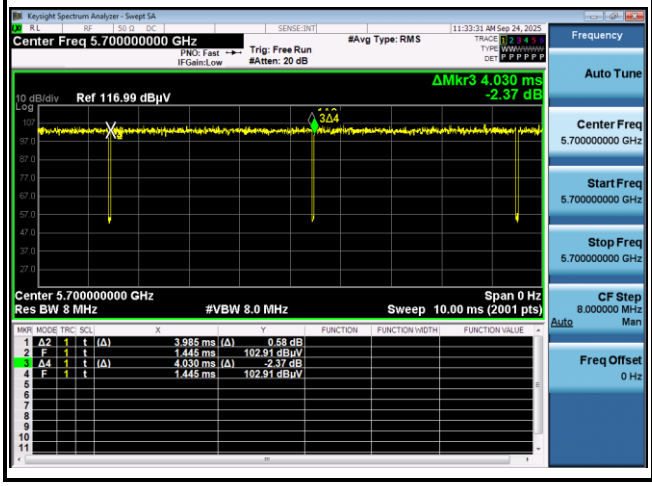
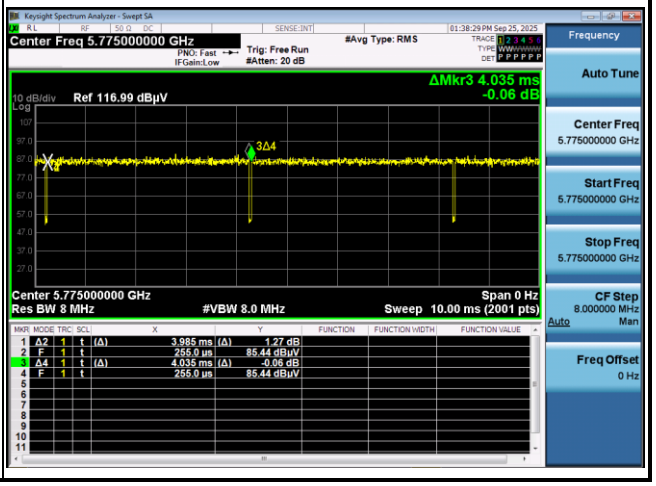
802.11a



< Chain B >

802.11a



<Chain B+A>

5GHz 802.11be EHT20	5GHz 802.11be EHT80 Full RU