



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. 10, 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.

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
FR4D1251-01H	01	Initial issue of report	Nov. 10, 2025
FR4D1251-01H	02	Revised Antenna Directional Gain This report is an updated version, replacing the report issued on Nov. 10, 2025	Nov. 19, 2025
FR4D1251-01H	03	Revised Antenna Directional Gain This report is an updated version, replacing the report issued on Nov. 19, 2025	Nov. 21, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.407(a)(10)	26dB Emission Bandwidth	-	See Note
-	2.1049	99% Occupied Bandwidth	-	See Note
3.1	15.407(a)(9)	Fundamental Maximum EIRP	Pass	
-	15.407(a)(9)	Fundamental Power Spectral Density	-	See Note
-	15.407(b)(6)	In-Band Emissions (Channel Mask)	-	See Note
-	15.407(d)(6)	Contention Based Protocol	-	See Note
-	15.407(d)(10)	Transmit Power Control (TPC)	-	See Note
3.2	15.407(b)	Unwanted Emissions	Pass	2.8 dB under the limit at 7125.01 MHz
-	15.207	AC Conducted Emission	-	See Note
3.3	15.203 15.407(a)	Antenna Requirement	Pass	-

Note :

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

Conformity Assessment Condition:

- 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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 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: Yuri Huang

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	5945~7125MHz
Type of Modulation	802.11ax: OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM) 802.11be: OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM/4096QAM)

Antenna Information				
Aux Antenna (Chain A)	Brand Name	Panasonic	Peak Gain	U-NII-5 4.08 dBi U-NII-6 2.91 dBi U-NII-7 2.12 dBi U-NII-8 1.74 dBi
	Model Name	N1ZYYY000474	Type	PIFA Antenna
Main Antenna (Chain B)	Brand Name	Panasonic	Peak Gain	U-NII-5 1.66 dBi U-NII-6 1.69 dBi U-NII-7 1.63 dBi U-NII-8 0.78 dBi
	Model Name	N1ZYYY000435	Type	PIFA Antenna

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

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

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

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.

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

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 k th antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k th antenna.

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

Directional gain = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi

Where $G_1, G_2, \dots, G_N$ denote single antenna gain.

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

	Chain	Chain	DG	DG	Power	PSD
	Port 0	Port 1	for	for	Limit	Limit
	Chain A	Chain B	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
U-NII-5	4.08	1.66	4.08	5.96	0.00	0.00
U-NII-6	2.91	1.69	2.91	5.33	0.00	0.00
U-NII-7	2.12	1.63	2.12	4.89	0.00	0.00
U-NII-8	1.74	0.78	1.74	4.28	0.00	0.00

Calculation example:

If a device has two antenna, $G_{ANT1}=4.08\text{dBi}$; $G_{ANT2}=1.66\text{dBi}$

Directional gain of power measurement = $\max(4.08, 1.66) + 0 = 4.08\text{Bi}$

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[10^{\frac{4.08 \text{ dBi}}{20}} + 10^{\frac{1.66 \text{ dBi}}{20}} \right]^2 \right\} / 2 \}$$

$$= 5.96 \text{ dBi}$$

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 Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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.

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).

2.1 Carrier Frequency and Channel

BW 20M	Channel	1	5	9	13	17	21	25	29
	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	Channel	3		11		19		27	
	Freq. (MHz)	5965		6005		6045		6085	
BW 80M	Channel	7				23			
	Freq. (MHz)	5985				6065			
BW 160M	Channel	15							
	Freq. (MHz)	6025							
BW 320M	Channel	31							
	Freq. (MHz)	6105							

BW 20M	Channel	33	37	41	45	49	53	57	61
	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
BW 40M	Channel	35		43		51		59	
	Freq. (MHz)	6125		6165		6205		6245	
BW 80M	Channel	39				55			
	Freq. (MHz)	6145				6225			
BW 160M	Channel	47							
	Freq. (MHz)	6185							
BW 320M	Channel	63							
	Freq. (MHz)	6265							



BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
	Freq. (MHz)	6285		6325		6365		6405	
BW 80M	Channel	71				87			
	Freq. (MHz)	6305				6385			
BW 160M	Channel	79							
	Freq. (MHz)	6345							
BW 320M	Channel	95							
	Freq. (MHz)	6425							

BW 20M	Channel	97	101	105	109	113	117	121	125
	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575
BW 40M	Channel	99		107		115		123	
	Freq. (MHz)	6445		6485		6525		6565	
BW 80M	Channel	103				119			
	Freq. (MHz)	6465				6545			
BW 160M	Channel	111							
	Freq. (MHz)	6505							
BW 320M	Channel	127							
	Freq. (MHz)	6585							

BW 20M	Channel	129	133	137	141	145	149	153	157
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	131		139		147		155	
	Freq. (MHz)	6605		6645		6685		6725	
BW 80M	Channel	135				151			
	Freq. (MHz)	6625				6705			
BW 160M	Channel	143							
	Freq. (MHz)	6665							
BW 320M	Channel	159							
	Freq. (MHz)	6745							



BW 20M	Channel	161	165	169	173	177	181	185	189
	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875	6895
BW 40M	Channel	163		171		179		187	
	Freq. (MHz)	6765		6805		6845		6885	
BW 80M	Channel	167				183			
	Freq. (MHz)	6785				6865			
BW 160M	Channel	175							
	Freq. (MHz)	6825							
BW 320M	Channel	191							
	Freq. (MHz)	6905							

BW 20M	Channel	193	197	201	205	209	213	217	221
	Freq. (MHz)	6915	6935	6955	6975	6995	7015	7035	7055
BW 40M	Channel	195		203		211		219	
	Freq. (MHz)	6925		6965		7005		7045	
BW 80M	Channel	199				215			
	Freq. (MHz)	6945				7025			
BW 160M	Channel	207							
	Freq. (MHz)	6985							

BW 20M	Channel	225				229			
	Freq. (MHz)	7075				7095			
BW 40M	Channel	227							
	Freq. (MHz)	7085							

BW 20M	Channel	233							
	Freq. (MHz)	7115							

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
802.11ax HE20(Covered by EHT20)	MCS0
802.11ax HE40(Covered by EHT40)	MCS0
802.11ax HE80(Covered by EHT80)	MCS0
802.11ax HE160(Covered by EHT160)	MCS0
802.11be EHT20	MCS0
802.11be EHT40	MCS0
802.11be EHT80	MCS0
802.11be EHT160	MCS0
802.11be EHT320	MCS0

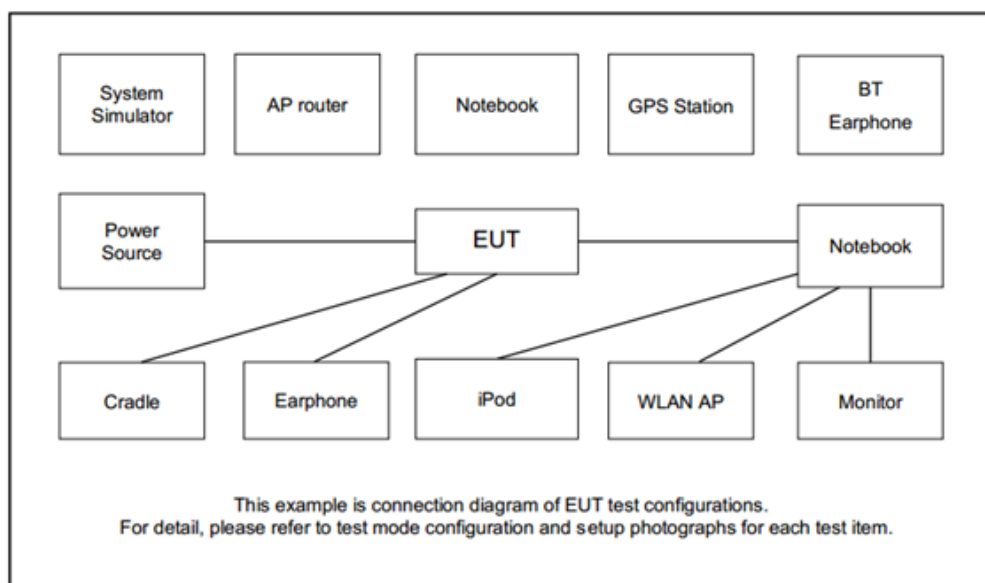
SISO Mode

Modulation	Data Rate
802.11ax HE20(Covered by EHT20)	MCS0
802.11ax HE40(Covered by EHT40)	MCS0
802.11ax HE80(Covered by EHT80)	MCS0
802.11ax HE160(Covered by EHT160)	MCS0
802.11be EHT20	MCS0
802.11be EHT40	MCS0
802.11be EHT80	MCS0
802.11be EHT160	MCS0
802.11be EHT320	MCS0

Remark:

1. 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 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

For EIRP output power:

The EIRP output power result is derived from RF conducted power plus directional antenna gain.

EIRP = RF conducted power + directional antenna gain.

Following shows an offset computation example with conducted power 20.2 dBm and directional antenna gain 3dBi.

$$\begin{aligned}\text{EIRP(dBm)} &= \text{RF conducted power(dBm)} + \text{directional antenna gain(dBi)} \\ &= 20.2 + 3 = 23.2 \text{ (dBm)}\end{aligned}$$

3 Test Result

3.1 Fundamental Maximum EIRP Measurement

3.1.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(9) For very low power devices operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed -5 dBm e.i.r.p in any 1-megahertz band and the maximum e.i.r.p must not exceed 14 dBm.

3.1.2 Measuring Instruments

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

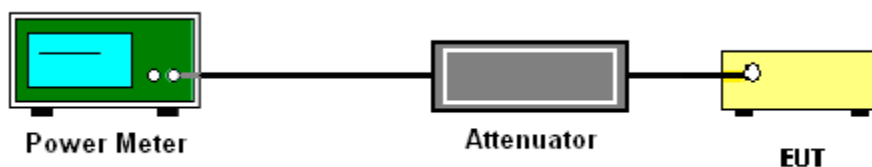
3.1.3 Test Procedures

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 Fundamental Maximum EIRP

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 within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

According 987594 D02 U-NII 6GHz EMC Measurement v03 section G:

Unwanted emissions outside of restricted bands are measured with a RMS detector.

In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

- (2) Unwanted spurious emissions fallen 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.

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

3.2.2 Measuring Instruments

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

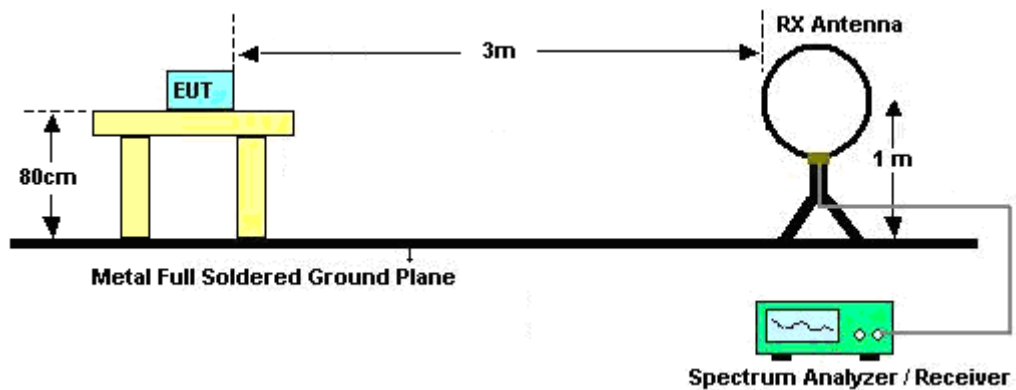
3.2.3 Test Procedures

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

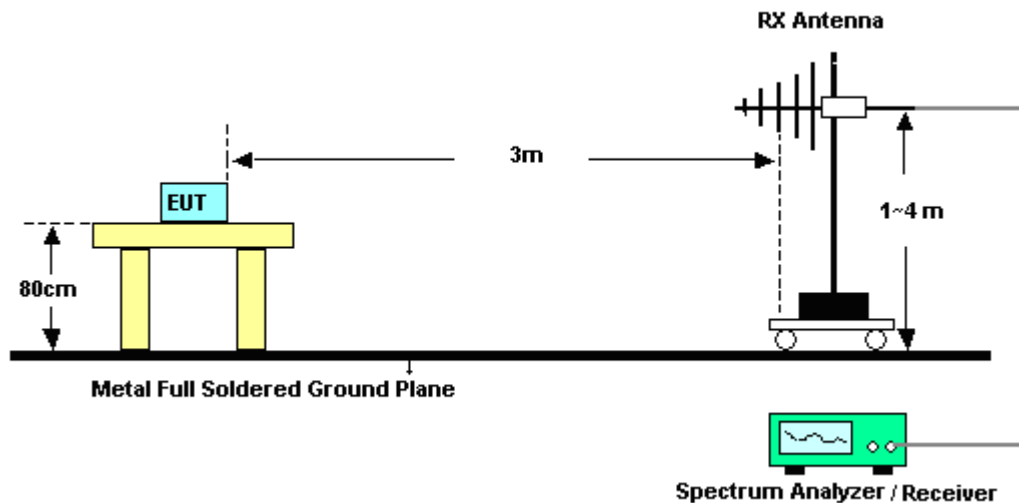
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with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

3.2.4 Test Setup

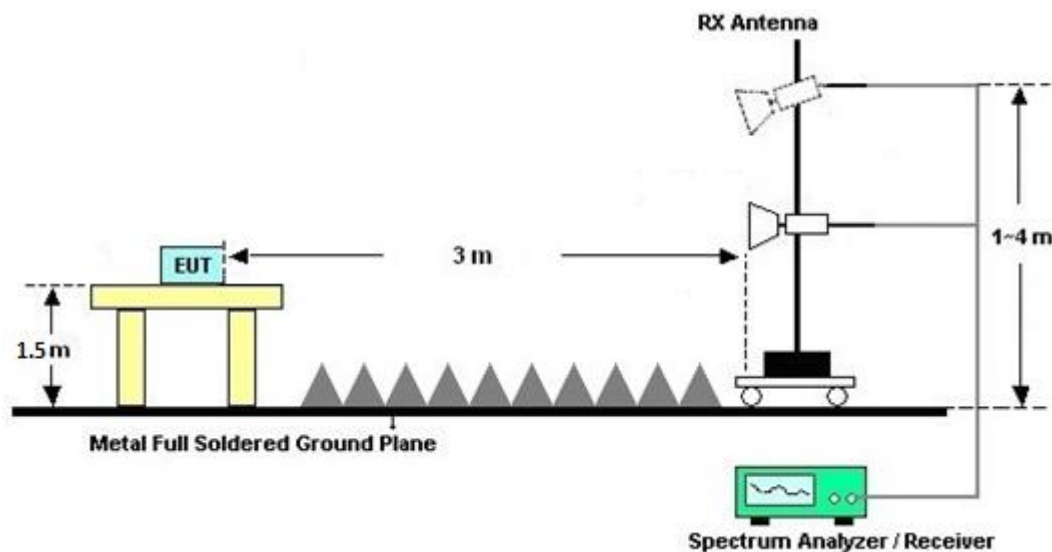
For radiated emissions below 30MHz



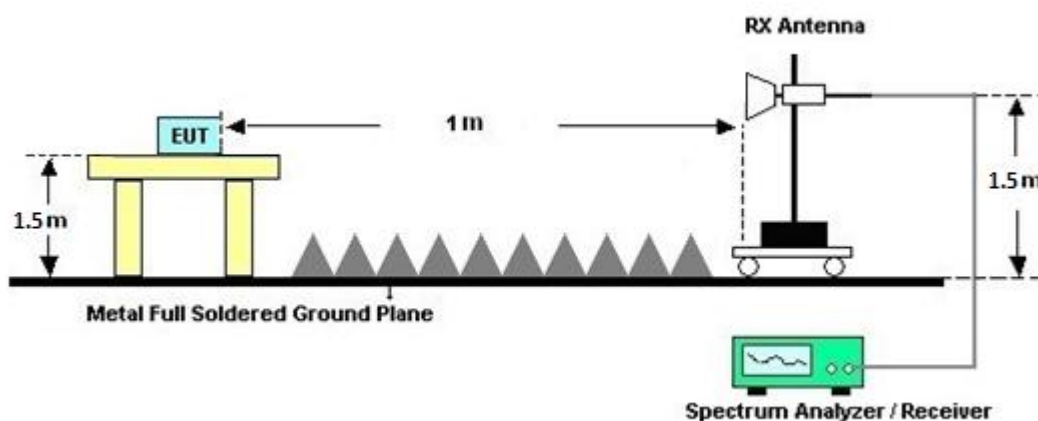
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

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

3.2.6 Duty Cycle

Please refer to Appendix C.



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

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Aug.26, 2025~ Oct. 10, 2025	Oct. 31, 2025	Conducted (TH05-HY)
USB Power Sensor	DARE	RPR3008W	RPR8W- 23010013 (NO:100)	10MHz~8GHz	Jul. 18, 2025	Aug.26, 2025~ Oct. 10, 2025	Jul. 17, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz~40GHz	Jan.14, 2025	Aug.26, 2025~ Oct. 10, 2025	Jan.13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instrument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Aug.26, 2025~ Oct. 10, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_v ersion_240513	N/A	Conducted Other Test Item	N/A	Aug.26, 2025~ Oct. 10, 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	SCHWARZBECK	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	SCHWARZBECK	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	TECEPEL	DTM-303B	TP200722	N/A	Mar. 03, 2025	Sep. 24, 2025~ Sep. 27, 2025	Mar. 02,2026	Radiation (03CH11-HY)
Hygrometer	TECEPEL	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)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Junyu Jhou	Temperature:	21~25	°C
Test Date:	2025/8/26~2025/10/10	Relative Humidity:	51~54	%

TEST RESULTS DATA
EIRP Power Table

U-NII-5 single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B		
EHT20	MCS0	1	001	5955	Full	5.20	5.40		4.08	1.66	9.28	7.06	24.00	Pass
EHT20	MCS0	1	045	6175	Full	5.30	5.10		4.08	1.66	9.38	6.76	24.00	Pass
EHT20	MCS0	1	093	6415	Full	5.30	5.20		4.08	1.66	9.38	6.86	24.00	Pass
EHT40	MCS0	1	003	5965	Full	8.10	8.00		4.08	1.66	12.18	9.66	24.00	Pass
EHT40	MCS0	1	043	6165	Full	8.10	8.40		4.08	1.66	12.18	10.06	24.00	Pass
EHT40	MCS0	1	091	6405	Full	8.40	8.10		4.08	1.66	12.48	9.76	24.00	Pass
EHT80	MCS0	1	007	5985	Full	11.10	11.20		4.08	1.66	15.18	12.86	24.00	Pass
EHT80	MCS0	1	039	6145	Full	11.00	11.20		4.08	1.66	15.08	12.86	24.00	Pass
EHT80	MCS0	1	087	6385	Full	11.00	11.00		4.08	1.66	15.08	12.66	24.00	Pass
EHT160	MCS0	1	015	6025	Full	14.20	14.20		4.08	1.66	18.28	15.86	24.00	Pass
EHT160	MCS0	1	079	6345	Full	14.20	14.30		4.08	1.66	18.28	15.96	24.00	Pass
EHT320	MCS0	1	031	6105	Full	16.40	16.40		4.08	1.66	20.48	18.06	24.00	Pass

U-NII-5 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Chain A	Chain B	SUM	Chain A	Chain B	SUM		
EHT20	MCS0	2	001	5955	Full	2.30	2.40	5.36	4.08		9.44	24.00	Pass
EHT20	MCS0	2	045	6175	Full	2.00	2.20	5.11	4.08		9.19	24.00	Pass
EHT20	MCS0	2	093	6415	Full	2.40	2.00	5.21	4.08		9.29	24.00	Pass
EHT40	MCS0	2	003	5965	Full	5.40	5.40	8.41	4.08		12.49	24.00	Pass
EHT40	MCS0	2	043	6165	Full	5.30	5.30	8.31	4.08		12.39	24.00	Pass
EHT40	MCS0	2	091	6405	Full	5.40	5.00	8.21	4.08		12.29	24.00	Pass
EHT80	MCS0	2	007	5985	Full	8.30	8.30	11.31	4.08		15.39	24.00	Pass
EHT80	MCS0	2	039	6145	Full	8.20	8.40	11.31	4.08		15.39	24.00	Pass
EHT80	MCS0	2	087	6385	Full	8.30	8.10	11.21	4.08		15.29	24.00	Pass
EHT160	MCS0	2	015	6025	Full	11.20	11.20	14.21	4.08		18.29	24.00	Pass
EHT160	MCS0	2	079	6345	Full	11.40	11.30	14.36	4.08		18.44	24.00	Pass
EHT320	MCS0	2	031	6105	Full	13.30	13.30	16.31	4.08		20.39	24.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-6 single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B		
EHT20	MCS0	1	097	6435	Full	5.20	5.20		2.91	1.69	8.11	6.89	24.00	Pass
EHT20	MCS0	1	105	6475	Full	5.20	5.10		2.91	1.69	8.11	6.79	24.00	Pass
EHT20	MCS0	1	113	6515	Full	5.30	5.40		2.91	1.69	8.21	7.09	24.00	Pass
EHT40	MCS0	1	099	6445	Full	8.00	8.20		2.91	1.69	10.91	9.89	24.00	Pass
EHT40	MCS0	1	107	6485	Full	8.20	8.30		2.91	1.69	11.11	9.99	24.00	Pass
EHT80	MCS0	1	103	6465	Full	11.00	11.30		2.91	1.69	13.91	12.99	24.00	Pass

U-NII-6 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	
						Chain A	Chain B	SUM	Chain A	Chain B				SUM
EHT20	MCS0	2	097	6435	Full	2.30	2.30	5.31	2.91		8.22	24.00	Pass	
EHT20	MCS0	2	105	6475	Full	2.40	2.30	5.36	2.91		8.27	24.00	Pass	
EHT20	MCS0	2	113	6515	Full	2.30	2.30	5.31	2.91		8.22	24.00	Pass	
EHT40	MCS0	2	099	6445	Full	5.20	5.40	8.31	2.91		11.22	24.00	Pass	
EHT40	MCS0	2	107	6485	Full	5.40	5.00	8.21	2.91		11.12	24.00	Pass	
EHT80	MCS0	2	103	6465	Full	8.20	8.00	11.11	2.91		14.02	24.00	Pass	

U-NII-6 straddle channel single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B		
EHT40	MCS0	1	115	6525	Full	8.30	8.20		2.91	1.69	11.21	9.89	24.00	Pass
EHT80	MCS0	1	119	6545	Full	11.30	11.30		2.91	1.69	14.21	12.99	24.00	Pass
EHT160	MCS0	1	111	6505	Full	14.40	14.30		2.91	1.69	17.31	15.99	24.00	Pass
EHT320	MCS0	1	095	6425	Full	16.40	16.30		2.91	1.69	19.31	17.99	24.00	Pass
EHT320	MCS0	1	127	6585	Full	16.00	16.30		2.91	1.69	18.91	17.99	24.00	Pass

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Chain A	Chain B	SUM	Chain A	Chain B	SUM			
EHT40	MCS0	2	115	6525	Full	5.10	5.30	8.21	2.91		11.12		24.00	Pass
EHT80	MCS0	2	119	6545	Full	8.30	8.30	11.31	2.91		14.22		24.00	Pass
EHT160	MCS0	2	111	6505	Full	11.00	11.00	14.01	2.91		16.92		24.00	Pass
EHT320	MCS0	2	095	6425	Full	13.30	13.30	16.31	2.91		19.22		24.00	Pass
EHT320	MCS0	2	127	6585	Full	13.30	13.30	16.31	2.91		19.22		24.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-7 single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B		
EHT20	MCS0	1	117	6535	Full	5.20	5.40		2.12	1.63	7.32	7.03	24.00	Pass
EHT20	MCS0	1	149	6695	Full	5.40	5.30		2.12	1.63	7.52	6.93	24.00	Pass
EHT20	MCS0	1	181	6855	Full	5.10	5.30		2.12	1.63	7.22	6.93	24.00	Pass
EHT40	MCS0	1	147	6685	Full	8.40	8.40		2.12	1.63	10.52	10.03	24.00	Pass
EHT40	MCS0	1	179	6845	Full	8.10	8.40		2.12	1.63	10.22	10.03	24.00	Pass
EHT80	MCS0	1	135	6625	Full	11.20	11.30		2.12	1.63	13.32	12.93	24.00	Pass
EHT80	MCS0	1	167	6785	Full	11.20	11.20		2.12	1.63	13.32	12.83	24.00	Pass
EHT160	MCS0	1	143	6665	Full	14.10	14.00		2.12	1.63	16.22	15.63	24.00	Pass

U-NII-7 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Chain A	Chain B	SUM	Chain A	Chain B	SUM		
EHT20	MCS0	2	117	6535	Full	2.30	2.40	5.36	2.12		7.48	24.00	Pass
EHT20	MCS0	2	149	6695	Full	2.40	2.30	5.36	2.12		7.48	24.00	Pass
EHT20	MCS0	2	181	6855	Full	2.00	2.30	5.16	2.12		7.28	24.00	Pass
EHT40	MCS0	2	147	6685	Full	5.20	5.30	8.26	2.12		10.38	24.00	Pass
EHT40	MCS0	2	179	6845	Full	5.00	5.30	8.16	2.12		10.28	24.00	Pass
EHT80	MCS0	2	135	6625	Full	8.40	8.30	11.36	2.12		13.48	24.00	Pass
EHT80	MCS0	2	167	6785	Full	8.40	8.40	11.41	2.12		13.53	24.00	Pass
EHT160	MCS0	2	143	6665	Full	11.10	11.00	14.06	2.12		16.18	24.00	Pass

U-NII-7 straddle channel single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B		
EHT20	MCS0	1	185	6875	Full	5.30	5.10		2.12	1.63	7.42	6.73	24.00	Pass
EHT40	MCS0	1	187	6885	Full	8.10	8.40		2.12	1.63	10.22	10.03	24.00	Pass
EHT80	MCS0	1	183	6865	Full	11.00	11.40		2.12	1.63	13.12	13.03	24.00	Pass

U-NII-7 straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Chain A	Chain B	SUM	Chain A	Chain B	SUM		
EHT20	MCS0	2	185	6875	Full	2.20	2.40	5.31	2.12		7.43	24.00	Pass
EHT40	MCS0	2	187	6885	Full	5.00	5.40	8.21	2.12		10.33	24.00	Pass
EHT80	MCS0	2	183	6865	Full	8.40	8.30	11.36	2.12		13.48	24.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-8 single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B		
EHT20	MCS0	1	209	6995	Full	5.10	5.30		1.74	0.78	6.84	6.08	24.00	Pass
EHT20	MCS0	1	229	7095	Full	5.30	5.20		1.74	0.78	7.04	5.98	24.00	Pass
EHT20	MCS0	1	233	7115	Full	-2.60	-2.80		1.74	0.78	-0.86	-2.02	24.00	Pass
EHT40	MCS0	1	227	7085	Full	8.20	8.20		1.74	0.78	9.94	8.98	24.00	Pass
EHT80	MCS0	1	199	6945	Full	11.00	11.20		1.74	0.78	12.74	11.98	24.00	Pass
EHT80	MCS0	1	215	7025	Full	11.00	11.30		1.74	0.78	12.74	12.08	24.00	Pass
EHT160	MCS0	1	207	6985	Full	14.10	14.30		1.74	0.78	15.84	15.08	24.00	Pass

U-NII-8 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Chain A	Chain B	SUM	Chain A	Chain B	SUM		
EHT20	MCS0	2	209	6995	Full	2.00	2.30	5.16	1.74		6.90	24.00	Pass
EHT20	MCS0	2	229	7095	Full	2.20	2.40	5.31	1.74		7.05	24.00	Pass
EHT20	MCS0	2	233	7115	Full	-5.70	-5.60	-2.64	1.74		-0.90	24.00	Pass
EHT40	MCS0	2	227	7085	Full	5.00	5.40	8.21	1.74		9.95	24.00	Pass
EHT80	MCS0	2	199	6945	Full	8.30	8.20	11.26	1.74		13.00	24.00	Pass
EHT80	MCS0	2	215	7025	Full	8.10	8.20	11.16	1.74		12.90	24.00	Pass
EHT160	MCS0	2	207	6985	Full	11.10	11.30	14.21	1.74		15.95	24.00	Pass

U-NII-8 straddle channel single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)	Pass /Fail
						Chain A	Chain B	SUM	Chain A	Chain B	Chain A	Chain B		
EHT320	MCS0	1	159	6745	Full	16.40	16.40		1.74	0.78	18.14	17.18	24.00	Pass
EHT320	MCS0	1	191	6905	Full	13.10	13.90		1.74	0.78	14.84	14.68	24.00	Pass

U-NII-8 straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Chain A	Chain B	SUM	Chain A	Chain B			
EHT320	MCS0	2	159	6745	Full	13.20	13.30	16.26	1.74		18.00	24.00	Pass
EHT320	MCS0	2	191	6905	Full	12.00	12.20	15.11	1.74		16.85	24.00	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 26	U-NII-5	5.925-6.425	Chain B+A	802.11be EHT20	1	5955	MCS0	-	-
Mode 27	U-NII-5	5.925-6.425	Chain B+A	802.11be EHT320	31	6105	MCS0	-	-
Mode 28	U-NII-6	6.425-6.525	Chain B+A	802.11be EHT160	111	6505	MCS0	-	-
Mode 29	U-NII-7	6.525-6.875	Chain B+A	802.11be EHT320	159	6745	MCS0	-	-
Mode 30	U-NII-8	6.875-7.125	Chain B+A	802.11be EHT20	233	7115	MCS0	-	-
Mode 31	U-NII-8	6.875-7.125	Chain B+A	802.11be EHT320	191	6905	MCS0	-	-
Mode 32	U-NII-8	6.875-7.125	Chain B+A	802.11be EHT20	233	7115	MCS0	-	LF

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
26	802.11be EHT20	1	5924.19	42.10	68.20	-26.10	H	Avg.	Pass	-	Band Edge
	802.11be EHT20	1	17865.00	39.82	54.00	-14.18	H	Avg.	Pass	-	Harmonic
27	802.11be EHT320	31	5924.96	49.24	68.20	-18.96	H	Avg.	Pass	-	Band Edge
	802.11be EHT320	31	-	-	-	-	-	-	-	-	Harmonic
28	802.11be EHT160	111	-	-	-	-	-	-	-	-	Band Edge
	802.11be EHT160	111	11190.00	38.91	54.00	-15.09	V	Avg.	Pass	-	Harmonic
29	802.11be EHT320	159	-	-	-	-	-	-	-	-	Band Edge
	802.11be EHT320	159	11180.00	38.81	54.00	-15.19	V	Avg.	Pass	-	Harmonic
30	802.11be EHT20	233	7125.01	66.12	68.20	-2.08	V	Avg.	Pass	-	Band Edge
	802.11be EHT20	233	11170.00	39.34	54.00	-14.66	V	Avg.	Pass	-	Harmonic
31	802.11be EHT320	191	7256.50	45.98	54.00	-8.02	V	Avg.	Pass	-	Band Edge



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
31	802.11be EHT320	191	-	-	-	-	-	-	-	-	Harmonic
32	LF	233	79.47	33.10	40.00	-6.90	V	QP	Pass	-	LF



Mode	26																																																																																																			
	Band Edge																																																																																																			
	U-NII-5_5.925-6.425_802.11be EHT20_CH1_5955MHz																																																																																																			
ANT	Chain B+A																																																																																																			
Pol.	Horizontal						Fundamental																																																																																													
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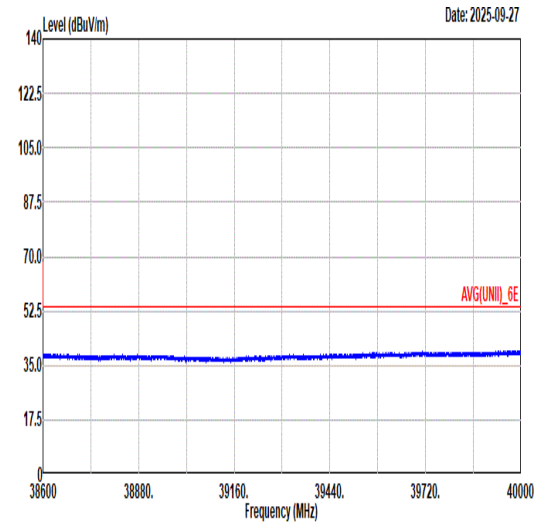
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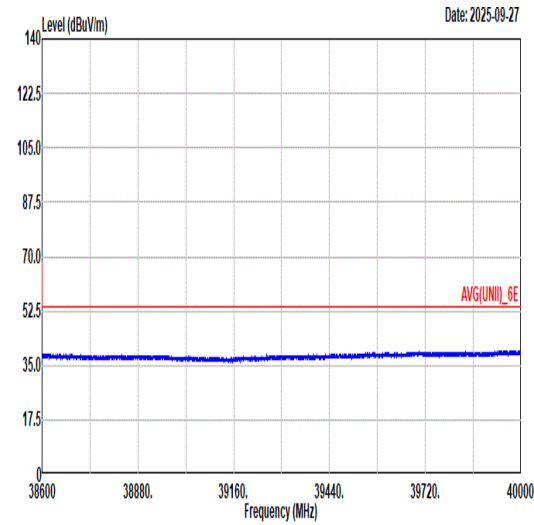
Mode	26	
	Harmonic	
	U-NII-5_5.925-6.425_802.11be EHT20_CH1_5955MHz	
ANT	Chain B+A	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	Level (dBuV/m) Date: 2025-09-26 Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_250915 HORIZONTAL	Level (dBuV/m) Date: 2025-09-26 Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_250915 VERTICAL
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38.6G
~40G
Avg



Site : 03CH11-HY
Condition: AVG(UNII)_6E 1m SHF_00994_250109 HORIZONTAL



Site : 03CH11-HY
Condition: AVG(UNII)_6E 1m SHF_00994_250109 VERTICAL



	27																																																																																																	
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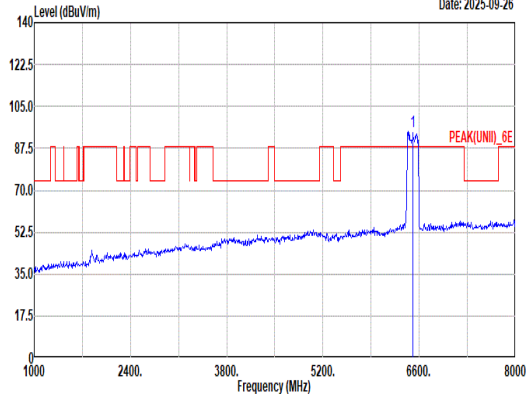
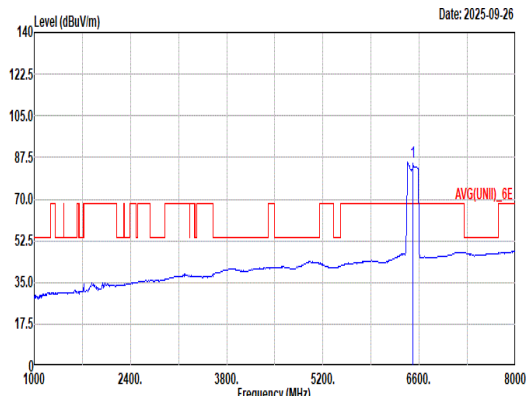


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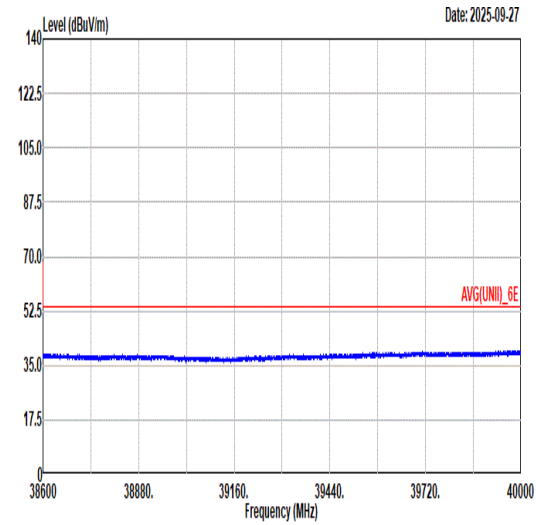
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Peak Avg	Level (dBuV/m) Date: 2025-09-27 PEAK(UNII)_6E Avg(UNII)_6E Site : 03CH11-HY Condition: PEAK(UNII)_6E 1m SHF_00994_250109 HORIZONTAL <table><tr><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 13010.00</td><td>47.89</td><td>88.20</td><td>-40.31</td><td>55.68</td><td>39.74</td><td>18.92</td><td>66.88</td><td>0.43</td><td>--</td><td>-- Peak</td></tr></table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1 13010.00	47.89	88.20	-40.31	55.68	39.74	18.92	66.88	0.43	--	-- Peak	Level (dBuV/m) Date: 2025-09-27 PEAK(UNII)_6E Avg(UNII)_6E Site : 03CH11-HY Condition: PEAK(UNII)_6E 1m SHF_00994_250109 VERTICAL <table><tr><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 11190.00</td><td>53.91</td><td>74.00</td><td>-20.09</td><td>63.91</td><td>38.70</td><td>17.21</td><td>66.47</td><td>0.56</td><td>133</td><td>76 Peak</td></tr><tr><td>2 11190.00</td><td>38.91</td><td>54.00</td><td>-15.09</td><td>48.91</td><td>38.70</td><td>17.21</td><td>66.47</td><td>0.56</td><td>133</td><td>76 Average</td></tr><tr><td>3 13010.00</td><td>47.88</td><td>88.20</td><td>-40.32</td><td>55.67</td><td>39.74</td><td>18.92</td><td>66.88</td><td>0.43</td><td>--</td><td>-- Peak</td></tr></table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1 11190.00	53.91	74.00	-20.09	63.91	38.70	17.21	66.47	0.56	133	76 Peak	2 11190.00	38.91	54.00	-15.09	48.91	38.70	17.21	66.47	0.56	133	76 Average	3 13010.00	47.88	88.20	-40.32	55.67	39.74	18.92	66.88	0.43	--	-- Peak
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																													
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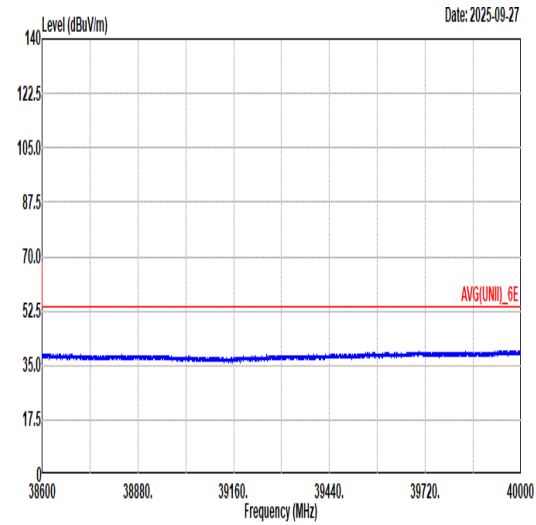
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ANT	Chain B+A	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	Level (dBuV/m) Date: 2025-09-26 Site : 03CH11-HY Condition: AVG(UNII)_6E 3m 91200_01620_250915 HORIZONTAL	Level (dBuV/m) Date: 2025-09-26 Site : 03CH11-HY Condition: AVG(UNII)_6E 3m 91200_01620_250915 VERTICAL
	Level (dBuV/m) Date: 2025-09-26 Site : 03CH11-HY Condition: AVG(UNII)_6E 3m 91200_01620_250915 HORIZONTAL	Level (dBuV/m) Date: 2025-09-26 Site : 03CH11-HY Condition: AVG(UNII)_6E 3m 91200_01620_250915 VERTICAL



38.6G
~40G
Avg



Site : 03CH11-HY
Condition: AVG(UNII)_6E 1m SHF_00994_250109 HORIZONTAL



Site : 03CH11-HY
Condition: AVG(UNII)_6E 1m SHF_00994_250109 VERTICAL



Mode	29																																					
	Band Edge																																					
	U-NII-7_6.525-6.875_802.11be EHT320_CH159_6745MHz																																					
ANT	Chain B+A																																					
Pol.	Horizontal	Fundamental																																				
Peak	Blank	Level (dBuV/m) Date: 2025-09-26 Site : 03CH11-HY Condition: PEAK(UNII)_6E 3m 91200_01620_250915 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line Margin</th><th>Read Level</th><th>Ant Factor</th><th>Cable Loss</th><th>Preamp Factor</th><th>Aux Factor</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 6745.00</td><td>95.49</td><td>-----</td><td>-----</td><td>81.68</td><td>35.78</td><td>11.36</td><td>33.33</td><td>0.00</td><td>202</td><td>127</td><td>Peak</td></tr></table>	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	dB	cm	deg	1 6745.00	95.49	-----	-----	81.68	35.78	11.36	33.33	0.00	202	127	Peak
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	dB	cm	deg																											
1 6745.00	95.49	-----	-----	81.68	35.78	11.36	33.33	0.00	202	127	Peak																											
Avg	Blank	Level (dBuV/m) Date: 2025-09-26 Site : 03CH11-HY Condition: AVG(UNII)_6E 3m 91200_01620_250915 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line Margin</th><th>Read Level</th><th>Ant Factor</th><th>Cable Loss</th><th>Preamp Factor</th><th>Aux Factor</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 6745.00</td><td>86.04</td><td>-----</td><td>-----</td><td>72.23</td><td>35.78</td><td>11.36</td><td>33.33</td><td>0.00</td><td>202</td><td>127</td><td>Average</td></tr></table>	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	dB	cm	deg	1 6745.00	86.04	-----	-----	72.23	35.78	11.36	33.33	0.00	202	127	Average
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	dB	cm	deg																											
1 6745.00	86.04	-----	-----	72.23	35.78	11.36	33.33	0.00	202	127	Average																											



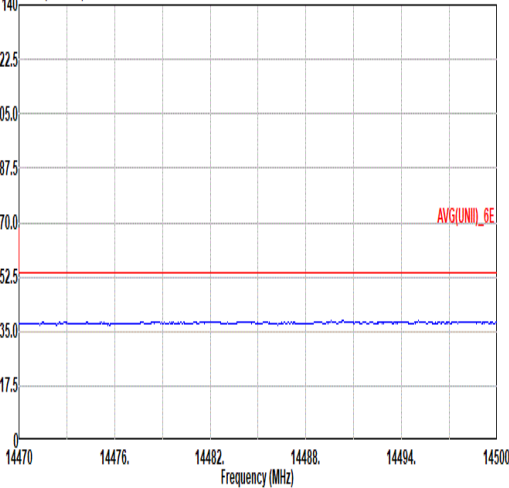
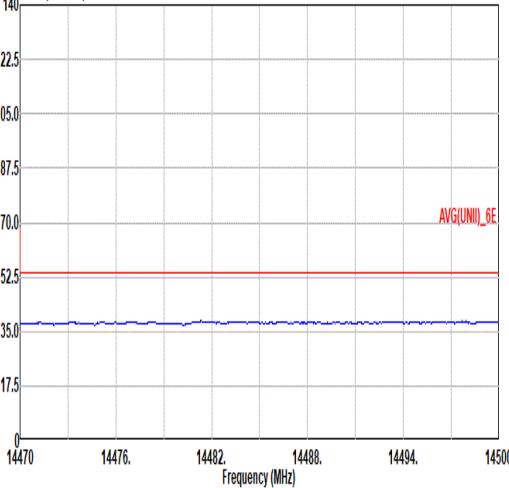
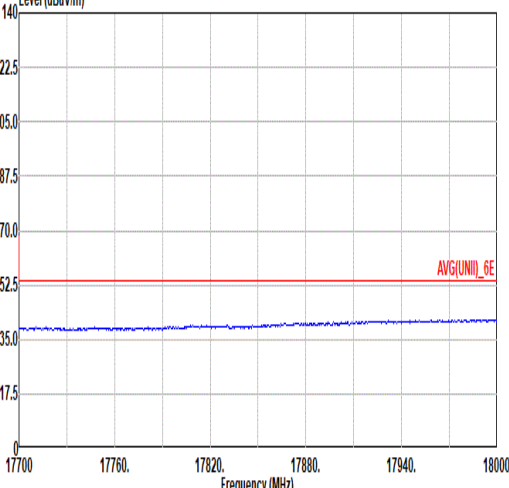
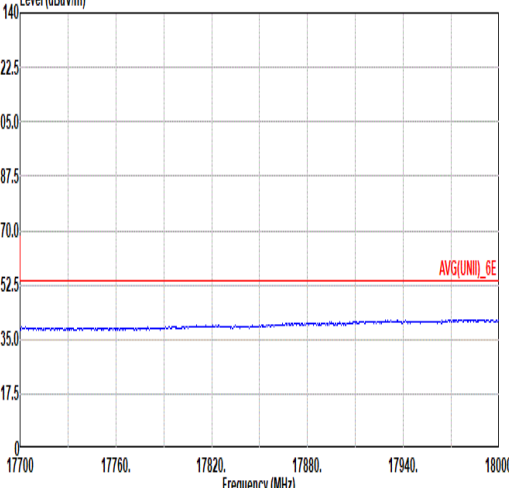
Report No. : FR4D1251-01H

Page Number : B18 of 29



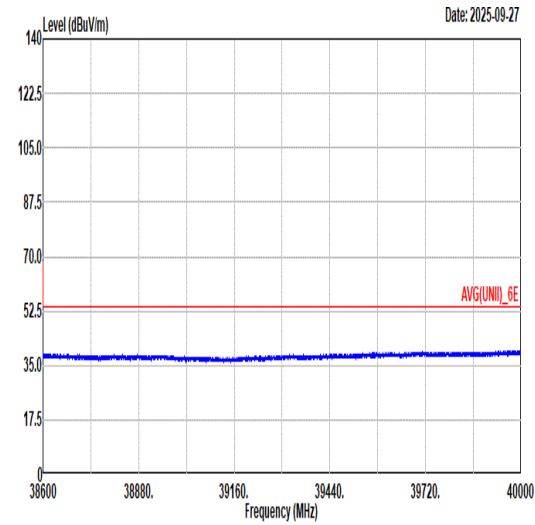
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	U-NII-7_6.525-6.875_802.11be EHT320_CH159_6745MHz																																																																																																																									
ANT	Chain B+A																																																																																																																									
Pol.	Horizontal	Vertical																																																																																																																								
Peak Avg	Level (dBuV/m) Date: 2025-09-27 Site : 03CH11-HY Condition: PEAK(UNII)_6E 1m SHF_1230_241025 HORIZONTAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 13490.00</td><td>47.91</td><td>88.20 -40.29</td><td>53.68</td><td>40.26</td><td>19.39</td><td>65.82</td><td>0.40</td><td>--</td><td>-- Peak</td></tr><tr><td>2 20235.00</td><td>37.30</td><td>74.00 -36.70</td><td>47.63</td><td>38.10</td><td>23.53</td><td>62.42</td><td>-9.54</td><td>--</td><td>-- Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level	Factor	Loss Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1 13490.00	47.91	88.20 -40.29	53.68	40.26	19.39	65.82	0.40	--	-- Peak	2 20235.00	37.30	74.00 -36.70	47.63	38.10	23.53	62.42	-9.54	--	-- Peak	Level (dBuV/m) Date: 2025-09-27 Site : 03CH11-HY Condition: PEAK(UNII)_6E 1m SHF_1230_241025 VERTICAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 11180.00</td><td>53.88</td><td>74.00 -20.12</td><td>63.90</td><td>38.70</td><td>17.20</td><td>66.48</td><td>0.56</td><td>134</td><td>76 Peak</td></tr><tr><td>2 11180.00</td><td>38.81</td><td>54.00 -15.19</td><td>48.83</td><td>38.70</td><td>17.20</td><td>66.48</td><td>0.56</td><td>134</td><td>76 Average</td></tr><tr><td>3 13490.00</td><td>47.28</td><td>88.20 -40.92</td><td>53.05</td><td>40.26</td><td>19.39</td><td>65.82</td><td>0.40</td><td>--</td><td>-- Peak</td></tr><tr><td>4 20235.00</td><td>37.51</td><td>74.00 -36.49</td><td>47.84</td><td>38.10</td><td>23.53</td><td>62.42</td><td>-9.54</td><td>--</td><td>-- Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level	Factor	Loss Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1 11180.00	53.88	74.00 -20.12	63.90	38.70	17.20	66.48	0.56	134	76 Peak	2 11180.00	38.81	54.00 -15.19	48.83	38.70	17.20	66.48	0.56	134	76 Average	3 13490.00	47.28	88.20 -40.92	53.05	40.26	19.39	65.82	0.40	--	-- Peak	4 20235.00	37.51	74.00 -36.49	47.84	38.10	23.53	62.42	-9.54	--	-- Peak
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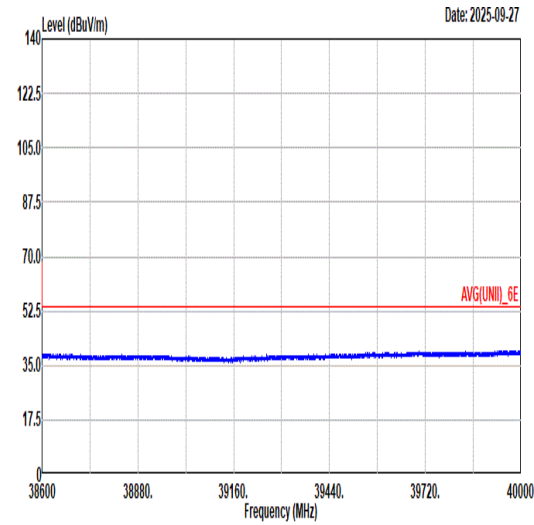
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ANT	Chain B+A	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	Level (dBuV/m) Date: 2025-09-26  Site : 03CH11-HY Condition: AVG(UNII)_6E 3m 91200_01620_250915 HORIZONTAL	Level (dBuV/m) Date: 2025-09-26  Site : 03CH11-HY Condition: AVG(UNII)_6E 3m 91200_01620_250915 VERTICAL
	Level (dBuV/m) Date: 2025-09-26  Site : 03CH11-HY Condition: AVG(UNII)_6E 3m 91200_01620_250915 HORIZONTAL	Level (dBuV/m) Date: 2025-09-26  Site : 03CH11-HY Condition: AVG(UNII)_6E 3m 91200_01620_250915 VERTICAL



38.6G
~40G
Avg



Site : 03CH11-HY
Condition: AVG(UNII)_6E 1m SHF_1230_241025 HORIZONTAL



Site : 03CH11-HY
Condition: AVG(UNII)_6E 1m SHF_1230_241025 VERTICAL



		30											
Mode	Band Edge												
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ANT	Chain B+A												
Pol.	Horizontal												
Peak	Fundamental												
	Fundamental												
Peak	Fundamental												
	Fundamental												
Avg	Fundamental												
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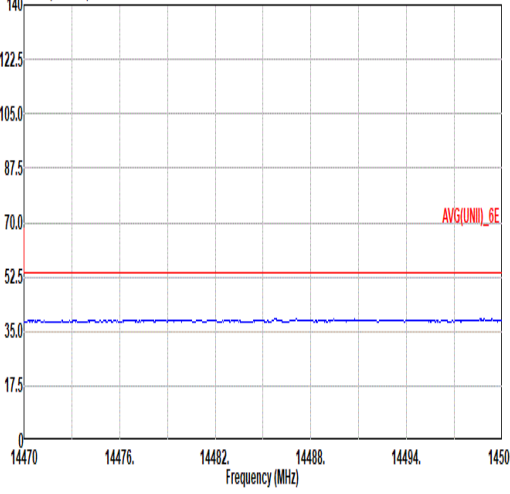
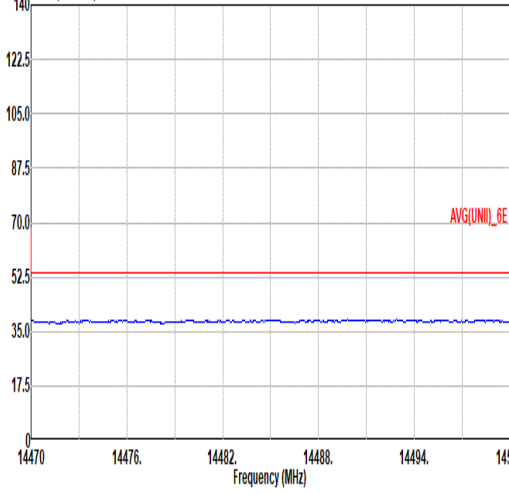
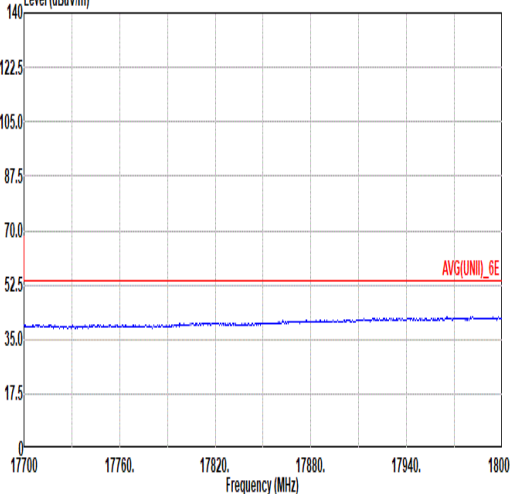
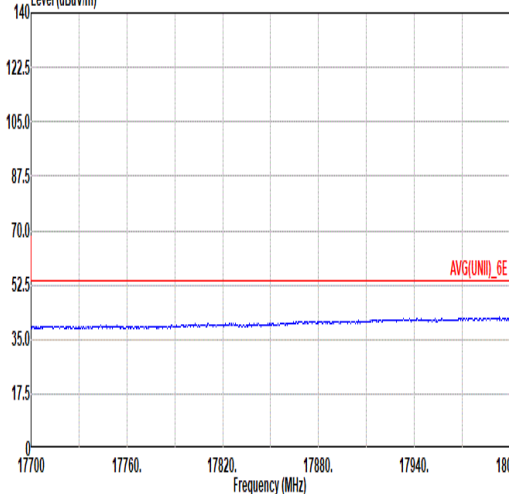


	30																																																																																																			
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Pol.	Vertical						Fundamental																																																																																													
Peak	Level (dBuV/m) Date: 2025-09-26 PEAK_BE(UNII)_6E Site : 03CH11-HY Condition: PEAK_BE(UNII)_6E 3m 91200_01620_250915 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>7125.01</td><td>74.83</td><td>88.20</td><td>-13.37</td><td>60.22</td><td>36.40</td><td>11.77</td><td>33.56</td><td>0.00</td><td>200</td><td>210</td><td>Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	7125.01	74.83	88.20	-13.37	60.22	36.40	11.77	33.56	0.00	200	210	Peak	Level (dBuV/m) Date: 2025-09-26 PEAK(UNII)_6E Site : 03CH11-HY Condition: PEAK(UNII)_6E 3m 91200_01620_250915 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>7115.00</td><td>85.34</td><td>-----</td><td>-----</td><td>70.77</td><td>36.37</td><td>11.76</td><td>33.56</td><td>0.00</td><td>200</td><td>210</td><td>Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	7115.00	85.34	-----	-----	70.77	36.37	11.76	33.56	0.00	200	210	Peak
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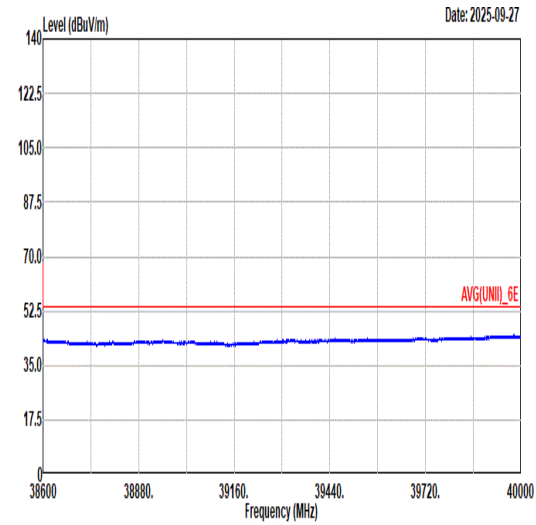
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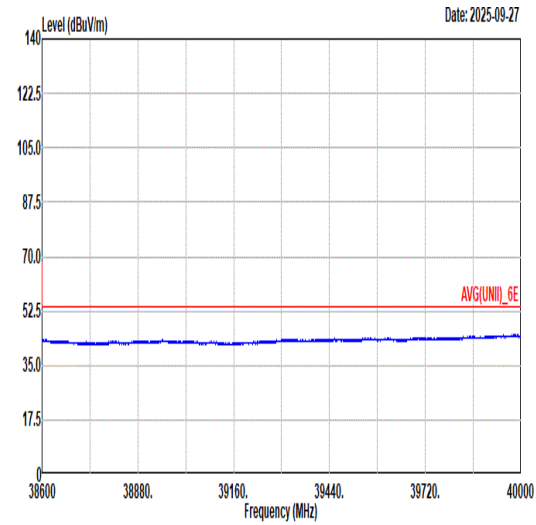
Mode	30	
	Harmonic	
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ANT	Chain B+A	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	Level (dBuV/m) Date: 2025-09-26  Site : 03CH11-HY Condition: AVG(UNII)_6E 3m 91200_01620_250915 HORIZONTAL	Level (dBuV/m) Date: 2025-09-26  Site : 03CH11-HY Condition: AVG(UNII)_6E 3m 91200_01620_250915 VERTICAL
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38.6G
~40G
Avg



Site : 03CH11-HY
Condition: AVG(UNII)_6E 1m SHF_1230_241025 HORIZONTAL



Site : 03CH11-HY
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	31																																																																																																													
Mode	Band Edge																																																																																																													
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3	268.86	20.27	46.00	-25.73	30.06	20.09	2.25	32.20	0.07 -- -- Peak																																																																																																																																																																																								
4	399.57	34.85	46.00	-11.15	42.08	21.95	2.79	32.05	0.08 -- -- Peak																																																																																																																																																																																								
5	563.50	35.57	46.00	-10.43	37.75	26.47	3.31	32.18	0.22 -- -- Peak																																																																																																																																																																																								
6	949.56	32.74	46.00	-13.26	28.03	30.93	4.28	30.90	0.40 -- -- Peak																																																																																																																																																																																								



Appendix C. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
Chain B+A	5GHz 802.11be EHT20	98.88	-	-	10Hz
Chain B+A	5GHz 802.11be EHT160 Full RU	98.64	-	-	10Hz
Chain B+A	5GHz 802.11be EHT320 Full RU	98.76	-	-	10Hz

< Chain B+A >

