

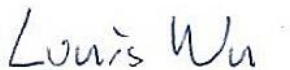


FCC CO-LOCATION RADIO TEST REPORT

FCC ID : ACJ9TGWL24A
Equipment : Radio Module
Brand Name : Panasonic
Model Name : WL24A
Applicant : Panasonic Corporation of North America
Two Riverfront Plaza, Newark, New Jersey,
07102-5490, USA
Standard : FCC Part 15 Subpart C §15.247
FCC Part 15 Subpart E §15.407

The product was received on Aug. 15, 2025 and testing was performed from Sep. 24, 2025 to Oct. 07, 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
FR4D1251-01G	01	Initial issue of report	Nov. 10, 2025
FR4D1251-01G	02	Revised Summary of Test Result and Test mode This report is an updated version, replacing the report issued on Nov. 10, 2025	Nov. 19, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(d) 15.407(b)	Unwanted Emissions Measurement	Pass	-
3.2	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/manufacture 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: Shannon 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:

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

1.2 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. 03CH20-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 Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ 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.



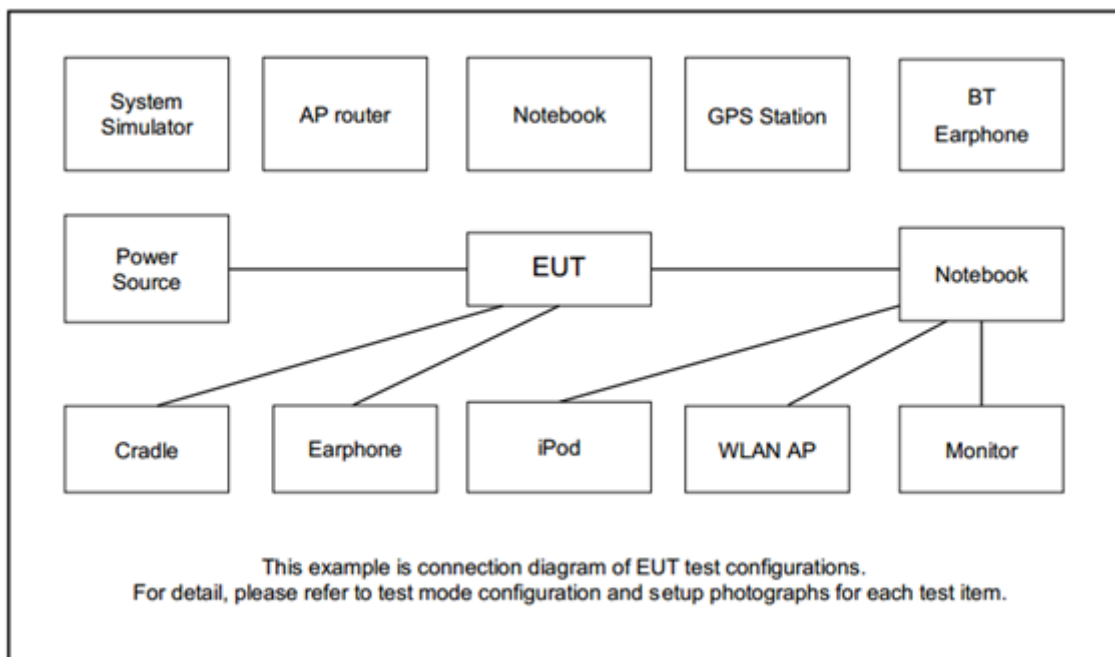
2 Test Configuration of Equipment Under Test

- 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). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

2.1 Test mode

For WLAN functionality supporting BT/BLE/WLAN 2.4G/WLAN 5G/WLAN 6G, radiated spurious emissions have been verified. Among them, the situation of WLAN 6G is worse case. Therefore, this report only includes the test results of WLAN 6G. the detailed Radiated test modes are shown in Appendix A

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Earphone	Moto	SJYN1181B	N/A	N/A	Unshielded, 1.25m

2.4 EUT Operation Test Setup

The RF test items, utility "DRTU Version:DRTU 0.8662.23.150.0" were installed in EUT which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

3 Test Result

3.1 Unwanted Emissions Measurement

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

3.1.1 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.

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

3.1.2 Measuring Instruments

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



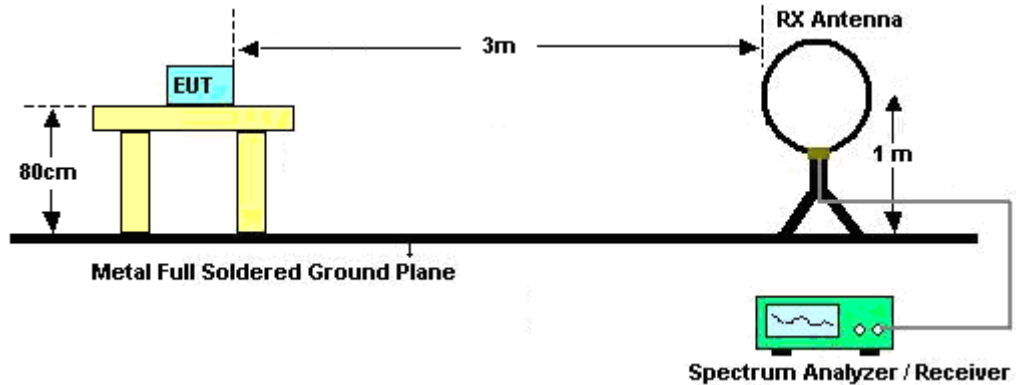
3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section 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 “-”.

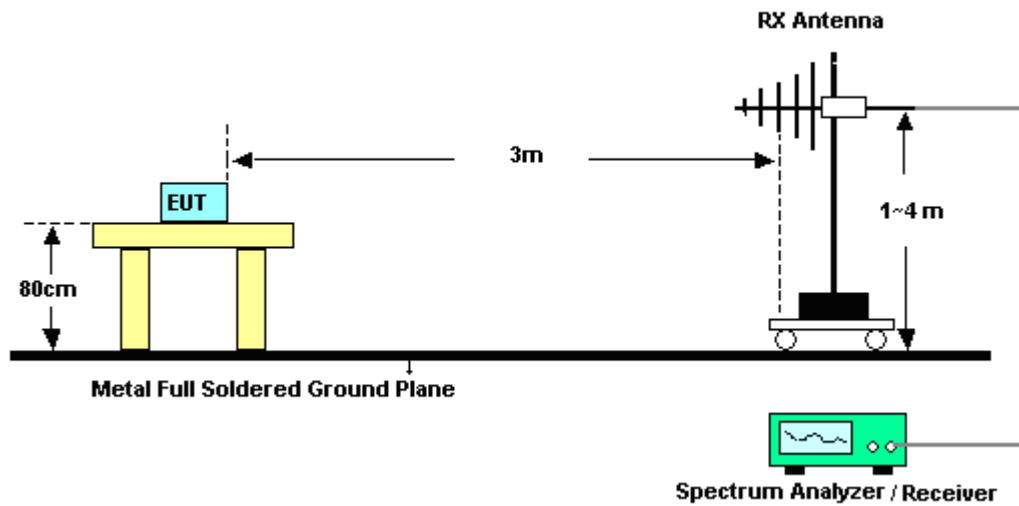
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with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

3.1.4 Test Setup

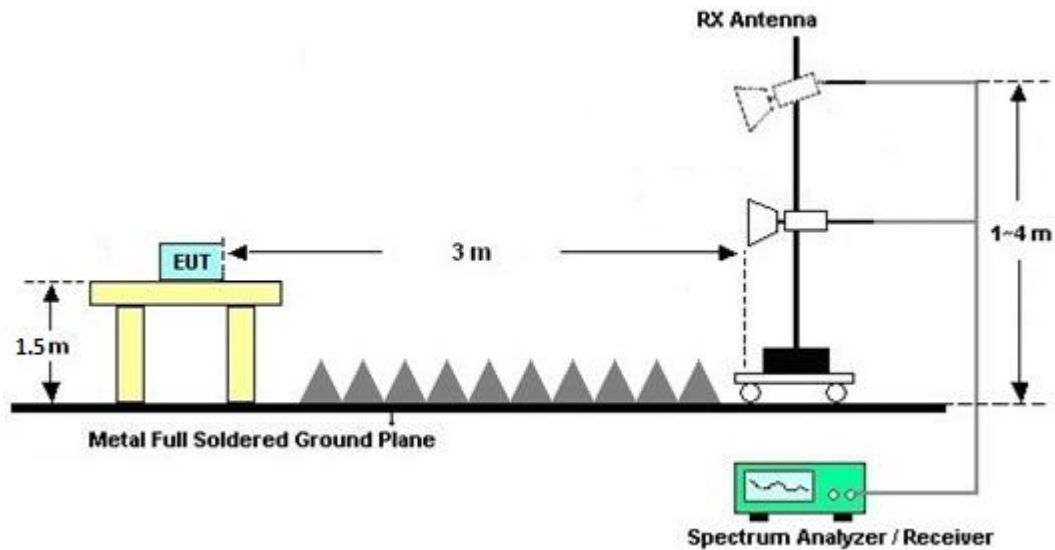
For radiated emissions below 30MHz



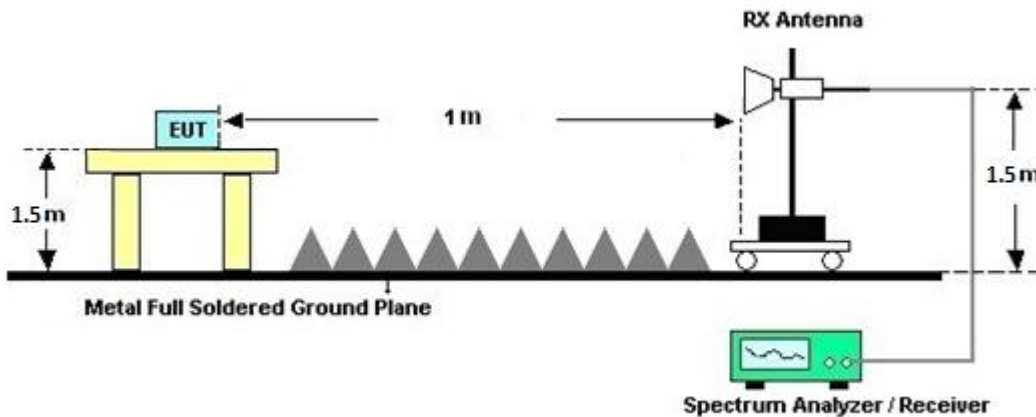
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.1.5 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.

3.1.6 Duty Cycle

Please refer to Appendix B



3.2 Antenna Requirements

3.2.1 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.

3.2.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 16, 2024	Sep. 24, 2025 ~ Oct. 07, 2025	Oct. 15, 2025	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Nov. 18, 2024	Sep. 24, 2025 ~ Oct. 07, 2025	Nov. 17, 2025	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Sep. 24, 2025 ~ Oct. 07, 2025	Aug. 25, 2026	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Sep. 24, 2025 ~ Oct. 07, 2025	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Sep. 24, 2025 ~ Oct. 07, 2025	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Sep. 24, 2025 ~ Oct. 07, 2025	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 09, 2024	Sep. 24, 2025 ~ Oct. 07, 2025	Dec. 08, 2025	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800N 1D01N-06	55606 & 08	30MHz~1GHz	Nov. 27, 2024	Sep. 24, 2025 ~ Oct. 07, 2025	Nov. 26, 2025	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	02360	1GHz-18GHz	Nov. 01, 2024	Sep. 24, 2025 ~ Oct. 07, 2025	Oct. 31, 2025	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00994	18GHz-40GHz	Jan. 09, 2025	Sep. 24, 2025 ~ Oct. 07, 2025	Jan. 08, 2026	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Dec. 31, 2024	Sep. 24, 2025 ~ Oct. 07, 2025	Dec. 30, 2025	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 12, 2024	Sep. 24, 2025 ~ Oct. 07, 2025	Nov. 11, 2025	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804 015/2,804027 /2	N/A	Jan. 16, 2025	Sep. 24, 2025 ~ Oct. 07, 2025	Jan. 15, 2026	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211382	N/A	Mar. 31, 2025	Sep. 24, 2025 ~ Oct. 07, 2025	Mar. 30, 2026	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Sep. 24, 2025 ~ Oct. 07, 2025	N/A	Radiation (03CH20-HY)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.7 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.6 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7 dB
--	--------



Appendix A. Radiated Spurious Emission Test Data

Test Engineer :	John Chuang, David Dai, and Sam Chou	Temperature :	19.3~21.7°C
		Relative Humidity :	63.5~69.7%

Note symbol

-L	Low channel location
-R	High channel location

A1-1. Radiated Spurious Emission Test Modes

WLAN 802.11be EHT20 Tx +RFID(RI121A)

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-8	6.875-7.125	Chain B+A	802.11be EHT20	233	7115	MCS0	Full RU	-
Mode 3	U-NII-8	6.875-7.125	Chain B+A	802.11be EHT20	233	7115	MCS0	Full RU	LF

A1-2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11be EHT20	233	7125.01	66.67	68.20	-1.53	V	Avg.	Pass	Full RU	Band Edge
	802.11be EHT20	233	11170.00	42.94	54.00	-11.06	V	Avg.	Pass	Full RU	Harmonic
3	LF	233	898.15	37.73	46.00	-8.27	V	Peak	Pass	-	LF



Mode	1																																																																																																	
	Band Edge																																																																																																	
	U-NII-8_6.875-7.125_802.11be EHT20_CH233_Full RU_7115MHz																																																																																																	
ANT	Chain B+A																																																																																																	
Pol.	Horizontal					Fundamental																																																																																												
Peak	Level (dBuV/m) Date: 2025-10-01 Site : 03CH20-HY Condition: PEAK_BE(UNII)_6E 3m HF_91200_02360_241101 HORIZONTAL : RBW:1000.000kHz VBN:3000.000kHz SMT:Auto <table><tr><th colspan="2"></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><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>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>7125.01</td><td>72.09</td><td>88.20 -16.11</td><td>58.77</td><td>36.50</td><td>15.14</td><td>38.32</td><td>0.00</td><td>229</td><td>80 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	dB	cm	deg	1	7125.01	72.09	88.20 -16.11	58.77	36.50	15.14	38.32	0.00	229	80 Peak	Level (dBuV/m) Date: 2025-10-01 Site : 03CH20-HY Condition: PEAK(UNII)_6E 3m HF_91200_02360_241101 HORIZONTAL : RBW:1000.000kHz VBN:3000.000kHz SMT:Auto <table><tr><th colspan="2"></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><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>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>7115.00</td><td>86.42</td><td>-----</td><td>73.24</td><td>36.36</td><td>15.12</td><td>38.30</td><td>0.00</td><td>229</td><td>80 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	dB	cm	deg	1	7115.00	86.42	-----	73.24	36.36	15.12	38.30	0.00	229	80 Peak
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Avg	Level (dBuV/m) Date: 2025-10-01 Site : 03CH20-HY Condition: AVG_BE(UNII)_6E 3m HF_91200_02360_241101 HORIZONTAL : RBW:1000.000kHz VBN:0.010kHz SMT:Auto <table><tr><th colspan="2"></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><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>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>7125.01</td><td>64.56</td><td>68.20 -3.64</td><td>51.24</td><td>36.50</td><td>15.14</td><td>38.32</td><td>0.00</td><td>229</td><td>80 Average</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	dB	cm	deg	1	7125.01	64.56	68.20 -3.64	51.24	36.50	15.14	38.32	0.00	229	80 Average	Level (dBuV/m) Date: 2025-10-01 Site : 03CH20-HY Condition: AVG(UNII)_6E 3m HF_91200_02360_241101 HORIZONTAL : RBW:1000.000kHz VBN:0.010kHz SMT:Auto <table><tr><th colspan="2"></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><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>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>7115.00</td><td>77.80</td><td>-----</td><td>64.62</td><td>36.36</td><td>15.12</td><td>38.30</td><td>0.00</td><td>229</td><td>80 Average</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	dB	cm	deg	1	7115.00	77.80	-----	64.62	36.36	15.12	38.30	0.00	229	80 Average
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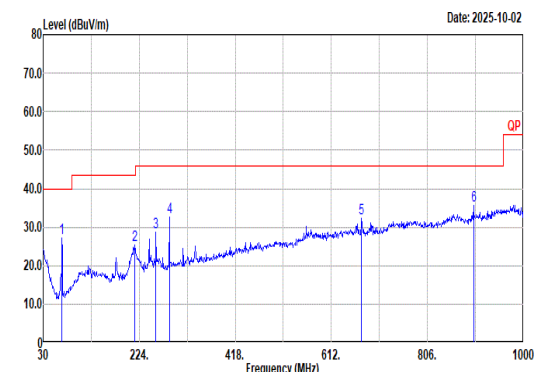
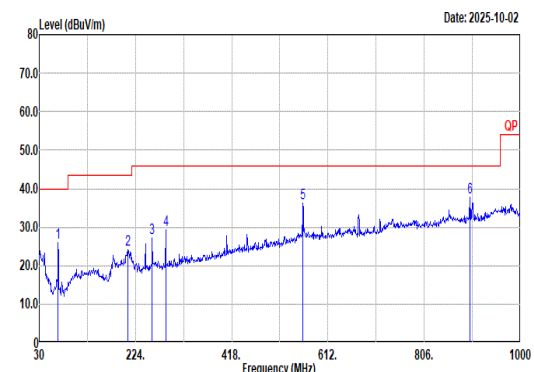


Mode	1																																																																																																																									
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ANT	Chain B+A																																																																																																																									
Pol.	Horizontal	Vertical																																																																																																																								
Peak Avg	Level (dBuV/m) Date: 2025-10-02 Site : 03CH20-HY Condition: PEAK(UNII)_6E 1m 88HA9170_1223_250702 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>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 14230.00</td><td>51.40</td><td>88.20</td><td>-36.80</td><td>33.91</td><td>39.20</td><td>21.72</td><td>43.93</td><td>0.50</td><td>-- -- Peak</td></tr><tr><td>2 21345.00</td><td>38.66</td><td>74.00</td><td>-35.34</td><td>46.68</td><td>38.10</td><td>26.79</td><td>63.37</td><td>-9.54</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	dB/m	dB	dB	dB	cm	deg	1 14230.00	51.40	88.20	-36.80	33.91	39.20	21.72	43.93	0.50	-- -- Peak	2 21345.00	38.66	74.00	-35.34	46.68	38.10	26.79	63.37	-9.54	-- -- Peak	Level (dBuV/m) Date: 2025-10-02 Site : 03CH20-HY Condition: PEAK(UNII)_6E 1m 88HA9170_1223_250702 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>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 11170.00</td><td>58.69</td><td>74.00</td><td>-15.31</td><td>42.10</td><td>38.96</td><td>19.13</td><td>42.12</td><td>0.62</td><td>100 303 Peak</td></tr><tr><td>2 11170.00</td><td>42.94</td><td>54.00</td><td>-11.06</td><td>26.35</td><td>38.96</td><td>19.13</td><td>42.12</td><td>0.62</td><td>100 303 Average</td></tr><tr><td>3 14230.00</td><td>50.81</td><td>88.20</td><td>-37.39</td><td>33.32</td><td>39.20</td><td>21.72</td><td>43.93</td><td>0.50</td><td>-- -- Peak</td></tr><tr><td>4 21345.00</td><td>38.74</td><td>74.00</td><td>-35.26</td><td>46.76</td><td>38.10</td><td>26.79</td><td>63.37</td><td>-9.54</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	dB/m	dB	dB	dB	cm	deg	1 11170.00	58.69	74.00	-15.31	42.10	38.96	19.13	42.12	0.62	100 303 Peak	2 11170.00	42.94	54.00	-11.06	26.35	38.96	19.13	42.12	0.62	100 303 Average	3 14230.00	50.81	88.20	-37.39	33.32	39.20	21.72	43.93	0.50	-- -- Peak	4 21345.00	38.74	74.00	-35.26	46.76	38.10	26.79	63.37	-9.54	-- -- Peak
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Mode	1	
	Harmonic	
	U-NII-8_6.875-7.125_802.11be EHT20_CH233_Full RU_7115MHz	
ANT	Chain B+A	
Pol.	Horizontal	Vertical
10G ~18G Avg	Level (dBuV/m) Date: 2025-10-01 AVG(UNII)_6E Site : 03CH20-HY Condition: AVG(UNII)_6E 3m HF_91200_02360_241101 HORIZONTAL	Level (dBuV/m) Date: 2025-10-01 AVG(UNII)_6E Site : 03CH20-HY Condition: AVG(UNII)_6E 3m HF_91200_02360_241101 VERTICAL



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A2-1. Radiated Spurious Emission Test Modes

WLAN 802.11be EHT20 Tx +RFID(RI123A)

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 2	U-NII-8	6.875-7.125	Chain B+A	802.11be EHT20	233	7115	MCS0	Full RU	-
Mode 4	U-NII-8	6.875-7.125	Chain B+A	802.11be EHT20	233	7115	MCS0	Full RU	LF

A2-2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
2	802.11be EHT20	233	7125.01	66.22	68.20	-1.98	V	Avg.	Pass	Full RU	Band Edge
	802.11be EHT20	233	11170.00	43.05	54.00	-10.95	V	Avg.	Pass	Full RU	Harmonic
4	LF	233	40.67	32.82	40.00	-7.18	V	Peak	Pass	-	LF



Mode	2																																																																																	
	Band Edge																																																																																	
	U-NII-8_6.875-7.125_802.11be EHT20_CH233_Full RU_7115MHz																																																																																	
ANT	Chain B+A																																																																																	
Pol.	Horizontal					Fundamental																																																																												
Peak	Level (dBuV/m) Date: 2025-10-01 PEAK_BE(UNII)_6E Site : 03CH20-HY Condition: PEAK_BE(UNII)_6E 3m HF_91200_02360_241101 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <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 Level Line Margin Level Factor Loss Factor Factor</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB dB cm deg</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>1 7125.01 70.17 88.20 -18.03 56.85 36.50 15.14 38.32 0.00 200 79 Peak</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></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 dB dB cm deg									1 7125.01 70.17 88.20 -18.03 56.85 36.50 15.14 38.32 0.00 200 79 Peak									Level (dBuV/m) Date: 2025-10-01 PEAK(UNII)_6E Site : 03CH20-HY Condition: PEAK(UNII)_6E 3m HF_91200_02360_241101 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <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 Level Line Margin Level Factor Loss Factor Factor</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB dB cm deg</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>1 7115.00 84.89 ----- 71.57 36.50 15.14 38.32 0.00 200 79 Peak</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></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 dB dB cm deg									1 7115.00 84.89 ----- 71.57 36.50 15.14 38.32 0.00 200 79 Peak								
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Avg	Level (dBuV/m) Date: 2025-10-02 AVG_BE(UNII)_6E Site : 03CH20-HY Condition: AVG_BE(UNII)_6E 3m HF_91200_02360_241101 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto <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 Level Line Margin Level Factor Loss Factor Factor</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB dB cm deg</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>1 7125.01 63.87 68.20 -4.33 50.55 36.50 15.14 38.32 0.00 200 79 Average</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></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 dB dB cm deg									1 7125.01 63.87 68.20 -4.33 50.55 36.50 15.14 38.32 0.00 200 79 Average									Level (dBuV/m) Date: 2025-10-01 AVG(UNII)_6E Site : 03CH20-HY Condition: AVG(UNII)_6E 3m HF_91200_02360_241101 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto <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 Level Line Margin Level Factor Loss Factor Factor</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB dB cm deg</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>1 7115.00 77.64 ----- 64.32 36.50 15.14 38.32 0.00 200 79 Average</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></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 dB dB cm deg									1 7115.00 77.64 ----- 64.32 36.50 15.14 38.32 0.00 200 79 Average								
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Avg	Level (dBuV/m) Date: 2025-10-02 AVG_BE(UNII)_6E Site : 03CH20-HY Condition: AVG_BE(UNII)_6E 3m HF_91200_02360_241101 VERTICAL : 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>cm</th><th>deg</th><th></th></tr><tr><td>1 7125.01</td><td>66.22</td><td>68.20</td><td>-1.98</td><td>52.90</td><td>36.50</td><td>15.14</td><td>38.32</td><td>0.00</td><td>201</td><td>237</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	cm	deg		1 7125.01	66.22	68.20	-1.98	52.90	36.50	15.14	38.32	0.00	201	237	Average	Level (dBuV/m) Date: 2025-10-02 AVG(UNII)_6E Site : 03CH20-HY Condition: AVG(UNII)_6E 3m HF_91200_02360_241101 VERTICAL : 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>cm</th><th>deg</th><th></th></tr><tr><td>1 7115.00</td><td>80.33</td><td>-----</td><td>-----</td><td>67.01</td><td>36.50</td><td>15.14</td><td>38.32</td><td>0.00</td><td>201</td><td>237</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	cm	deg		1 7115.00	80.33	-----	-----	67.01	36.50	15.14	38.32	0.00	201	237	Average
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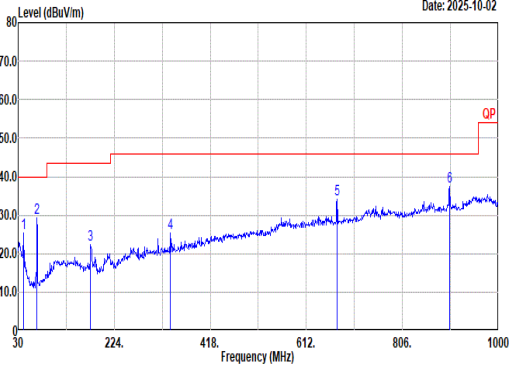
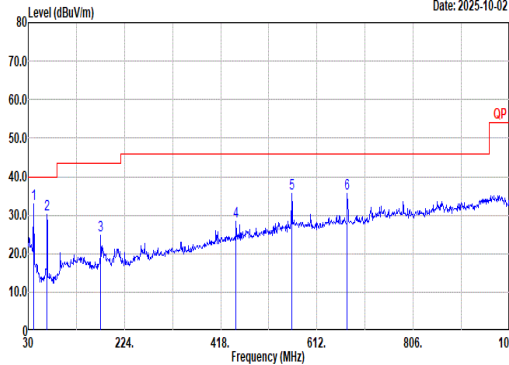


Mode	2																																																																																																																									
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ANT	Chain B+A																																																																																																																									
Pol.	Horizontal	Vertical																																																																																																																								
Peak Avg	Date: 2025-10-02 Site : 03CH20-HY Condition: PEAK(UNII)_6E 1m BBHA9170_1223_250702 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>dB</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 14230.00</td><td>51.34</td><td>88.20</td><td>-36.86</td><td>33.85</td><td>39.20</td><td>21.72</td><td>43.93</td><td>0.50</td><td>-- -- Peak</td></tr><tr><td>2 21345.00</td><td>39.08</td><td>74.00</td><td>-34.92</td><td>47.10</td><td>38.10</td><td>26.79</td><td>63.37</td><td>-9.54</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	dB	dB/m	dB	dB	cm	deg	1 14230.00	51.34	88.20	-36.86	33.85	39.20	21.72	43.93	0.50	-- -- Peak	2 21345.00	39.08	74.00	-34.92	47.10	38.10	26.79	63.37	-9.54	-- -- Peak	Date: 2025-10-02 Site : 03CH20-HY Condition: PEAK(UNII)_6E 1m BBHA9170_1223_250702 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>dB</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 11170.00</td><td>58.56</td><td>74.00</td><td>-15.44</td><td>41.97</td><td>38.96</td><td>19.13</td><td>42.12</td><td>0.62</td><td>102 302 Peak</td></tr><tr><td>2 11170.00</td><td>43.05</td><td>54.00</td><td>-10.95</td><td>26.46</td><td>38.96</td><td>19.13</td><td>42.12</td><td>0.62</td><td>102 302 Average</td></tr><tr><td>3 14230.00</td><td>51.15</td><td>88.20</td><td>-37.05</td><td>33.66</td><td>39.20</td><td>21.72</td><td>43.93</td><td>0.50</td><td>-- -- Peak</td></tr><tr><td>4 21345.00</td><td>39.13</td><td>74.00</td><td>-34.87</td><td>47.15</td><td>38.10</td><td>26.79</td><td>63.37</td><td>-9.54</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	dB	dB/m	dB	dB	cm	deg	1 11170.00	58.56	74.00	-15.44	41.97	38.96	19.13	42.12	0.62	102 302 Peak	2 11170.00	43.05	54.00	-10.95	26.46	38.96	19.13	42.12	0.62	102 302 Average	3 14230.00	51.15	88.20	-37.05	33.66	39.20	21.72	43.93	0.50	-- -- Peak	4 21345.00	39.13	74.00	-34.87	47.15	38.10	26.79	63.37	-9.54	-- -- Peak
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Mode	2	
	Harmonic	
	U-NII-8_6.875-7.125_802.11be EHT20_CH233_Full RU_7115MHz	
ANT	Chain B+A	
Pol.	Horizontal	Vertical
10G ~18G Avg	Level (dBuV/m) Date: 2025-10-01 AVG(UNII)_6E Site : 03CH20-HY Condition: AVG(UNII)_6E 3m HF_91200_02360_241101 HORIZONTAL	Level (dBuV/m) Date: 2025-10-01 AVG(UNII)_6E Site : 03CH20-HY Condition: AVG(UNII)_6E 3m HF_91200_02360_241101 VERTICAL



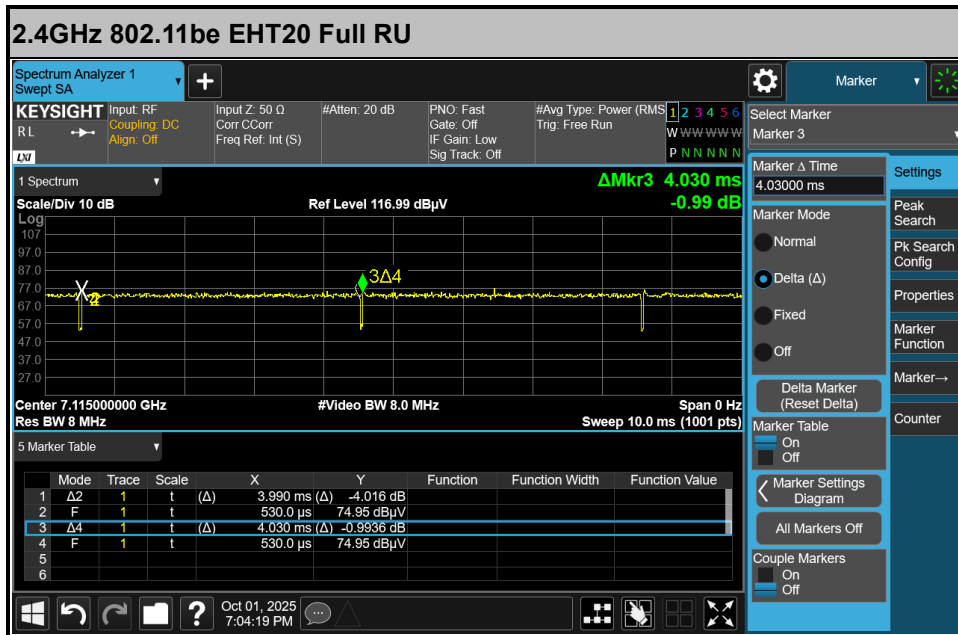
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																																				
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Appendix B. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
Chain B+A	2.4GHz 802.11be EHT20 Full RU	99.01	-	-	10Hz

<Mode1>



<Mode2>

