



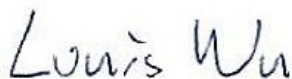
FCC RADIO TEST REPORT

FCC ID : U8G-P1BE08
Equipment : Peplink Pepwave Wireless Product
Brand Name : **PEPWAVE**

Model Name : AP One Enterprise
APO-ENTR
Applicant : PISMO LABS TECHNOLOGY LIMITED
A8, 5/F, HK Spinners Industrial
Building, Phase 6, 481 Castle Peak
Road, Cheung Sha Wan, Hong Kong
Manufacturer : PISMO LABS TECHNOLOGY LIMITED
A8, 5/F, HK Spinners Industrial
Building, Phase 6, 481 Castle Peak
Road, Cheung Sha Wan, Hong Kong
Standard : FCC Part 15 Subpart C §15.247

The product was received on Dec. 11, 2025 and testing was performed from Jan. 08, 2026 to Mar. 10, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.



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
FR5D1130A	01	Initial issue of report	May 25, 2026



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(b)(3) 15.247(b)(4)	Power Output Measurement	Pass	-
3.2	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	-

Note: This is a spot check report. The difference is that BLE 、TDWR and Zero-Wait functionality is disabled by software,placed the Nor and EMMC components, removed TPM and NAND components. Refer to the original applicant report number FR381846AC for verification of output power and spurious emissions.

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: Lewis Ho

Report Producer: Shannon Huang



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs	
Wi-Fi 2.4GHz 802.11b/g/n/ac/ax/be, Wi-Fi 5GHz 802.11a/n/ac/ax/be, and Wi-Fi 6GHz 802.11ax/be,	

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

<Antenna Information>

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	Senao	5718A0738300	PIFA	I-Pex	2.4G	Radio 1
2	Senao	5718A0739300	PIFA	I-Pex	2.4G	
3	Senao	5718A0740300	PIFA	I-Pex	2.4G	
4	Senao	5718A0741300	PIFA	I-Pex	2.4G	
5	Senao	5718A0742300	PIFA	I-Pex	5G	Radio 2
6	Senao	5718A0743300	PIFA	I-Pex	5G	
7	Senao	5718A0744300	PIFA	I-Pex	5G	
8	Senao	5718A0745300	PIFA	I-Pex	5G	
9	ADVANCED WIRELESS & ANTENNA Inc.	A8P8P-100089	Alford loop	I-Pex	6E	Radio 3
10	ADVANCED WIRELESS & ANTENNA Inc.	A8P8P-100090	Alford loop	I-Pex	6E	
11	ADVANCED WIRELESS & ANTENNA Inc.	A8P8P-100091	Alford loop	I-Pex	6E	
12	ADVANCED WIRELESS & ANTENNA Inc.	A8P8P-100092	Alford loop	I-Pex	6E	

Ant.	Port	Gain (dBi)								
		2.4G	5G				6E			
			UNII-1	UNII-2A	UNII-2C	UNII-3	6.175G	6.475G	6.695G	6.995G
1	1	2.82	-	-	-	-	-	-	-	
2	2	2.39	-	-	-	-	-	-	-	
3	3	2.33	-	-	-	-	-	-	-	
4	4	2.69	-	-	-	-	-	-	-	
5	1	-	4.81	4.19	5.45	4.98	-	-	-	
6	2	-	2.63	3.44	5.31	5.17	-	-	-	
7	3	-	5.06	5.29	4.27	3.96	-	-	-	
8	4	-	3.72	3.52	4.66	4.51	-	-	-	
9	1	-	-	-	-	-	4.96	4.99	4.98	4.78
10	2	-	-	-	-	-	4.72	4.74	4.53	4.69
11	3	-	-	-	-	-	4.88	4.63	4.47	4.94
12	4	-	-	-	-	-	4.77	4.84	4.61	4.26

Composite Gain (dBi)									
	2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	6.175G	6.475G	6.695G	6.995G
DG [1SS]	6.46	7.31	7.57	8.57	8.92	9.98	9.93	9.53	9.86
DG [2SS]	3.46	5.06	5.29	5.57	5.92	6.98	6.93	6.53	6.86
DG [4SS]	2.82	5.06	5.29	5.45	5.17	4.96	4.99	4.98	4.94

Note 1: The EUT has thirteen antennas.

Note 2: The composite gain is derived as KDB 662911 D03 v01 which was used as directional gain. For more detail information, please refer to the Antenna Pattern Report AP381814.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be mode (4TX/4RX)

Ant. 1 (port 1), Ant. 2 (port 2), Ant. 3 (port 3) and Ant. 4 (port 4) could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX)

Ant. 5 (port 1), Ant. 6 (port 2), Ant. 7 (port 3) and Ant. 8 (port 4) could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax/be mode (4TX/4RX)

Ant. 9 (port 1), Ant. 10 (port 2), Ant. 11(port 3) and Ant. 12 (port 4) could transmit/receive simultaneously.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

FCC designation No.: TW3786

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

1.4 Applicable Standards

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

- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC Part 15 Subpart C §15.247
- ♦ ANSI C63.10-2020 + Cor.1-2023

Remark:

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

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). 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.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		



2.2 Test Mode

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

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

MIMO Mode

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11be EHT20	MCS0
802.11be EHT40	MCS0

Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

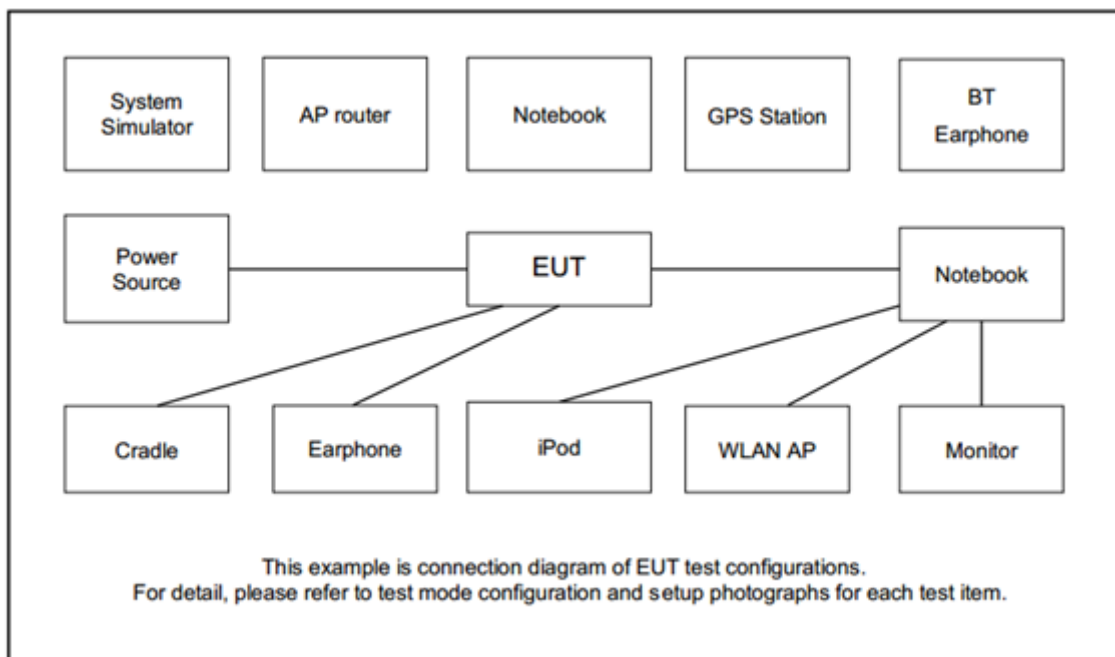
TXBF Mode

Modulation	Data Rate
802.11be EHT20	MCS0
802.11be EHT40	MCS0

Remark:

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Lenovo	IdeaPad Gaming	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	WLAN AP	Netgear	RAXE500	PY320300508	N/A	N/A



2.5 EUT Operation Test Setup

The RF test items, utility “QSPR Version 6.00.00228.1” 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.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “Putty Release 0.83” software tool was used to enable the EUT to transmit signals continuously.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example:

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)



3 Test Result

3.1 Output Power Measurement

3.1.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna with directional gain greater than 6 dBi is used, the output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

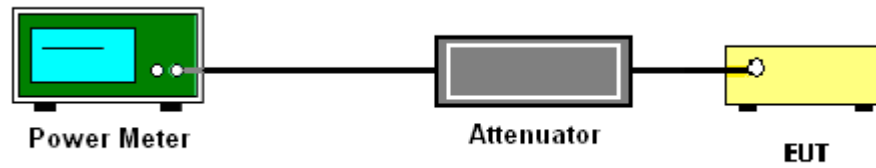
<CDD Modes>

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

<TXBF Modes>

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Measure the conducted output power and record the results in the test report.
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 Average Output Power

Please refer to Appendix A.



3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.2.2 Measuring Instruments

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

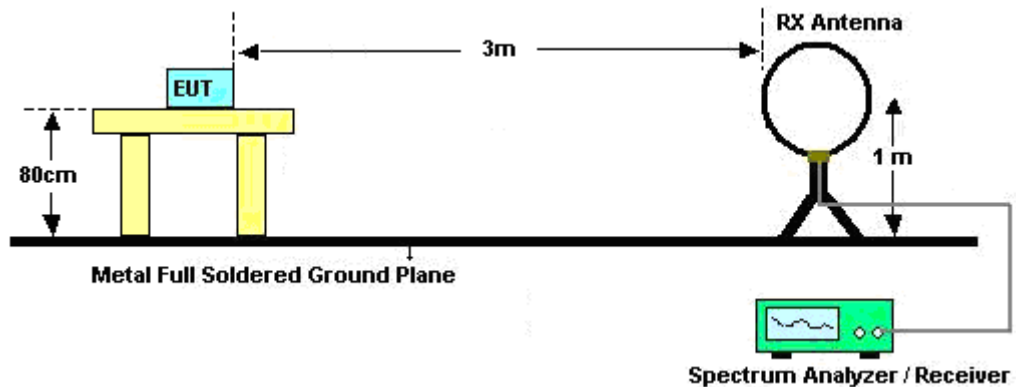


3.2.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. 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.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor = Level
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 “-”.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.For average measurement:
 - 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.

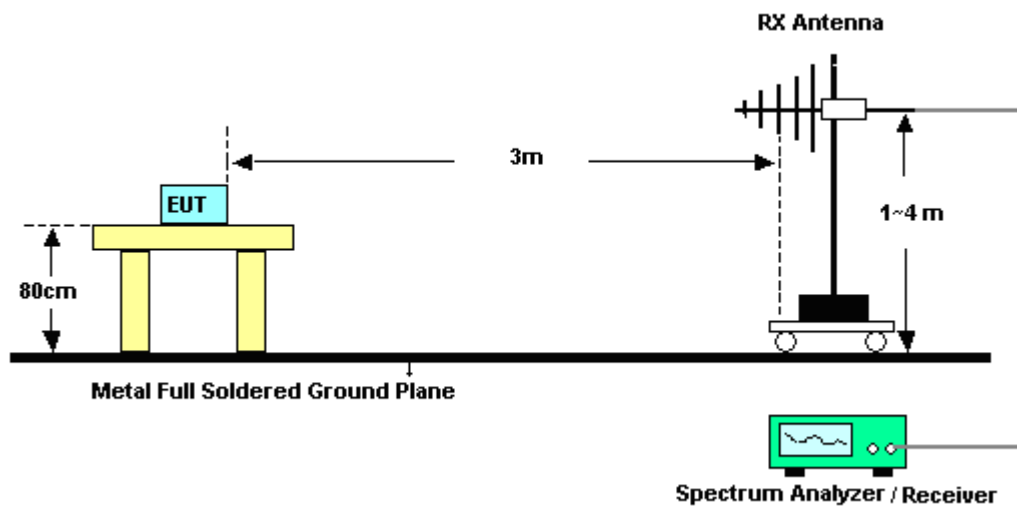
3.2.4 Test Setup

For radiated emissions below 30MHz

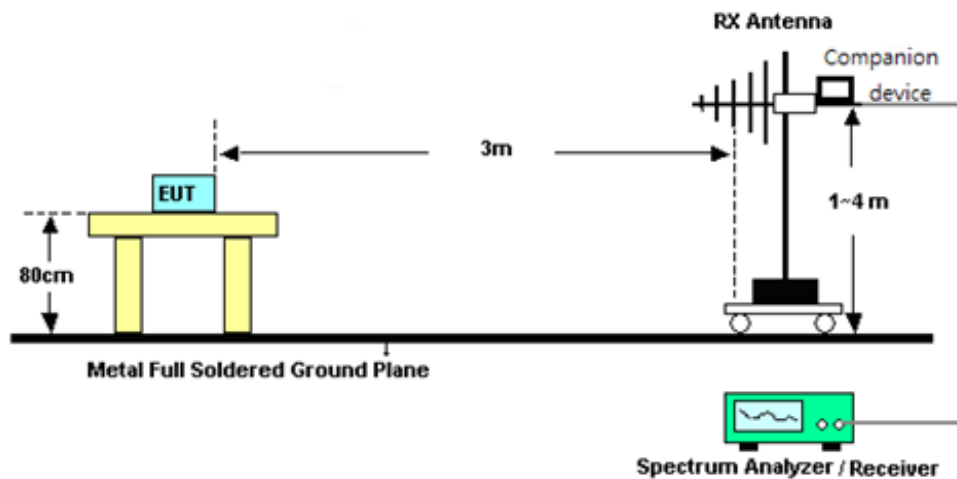


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

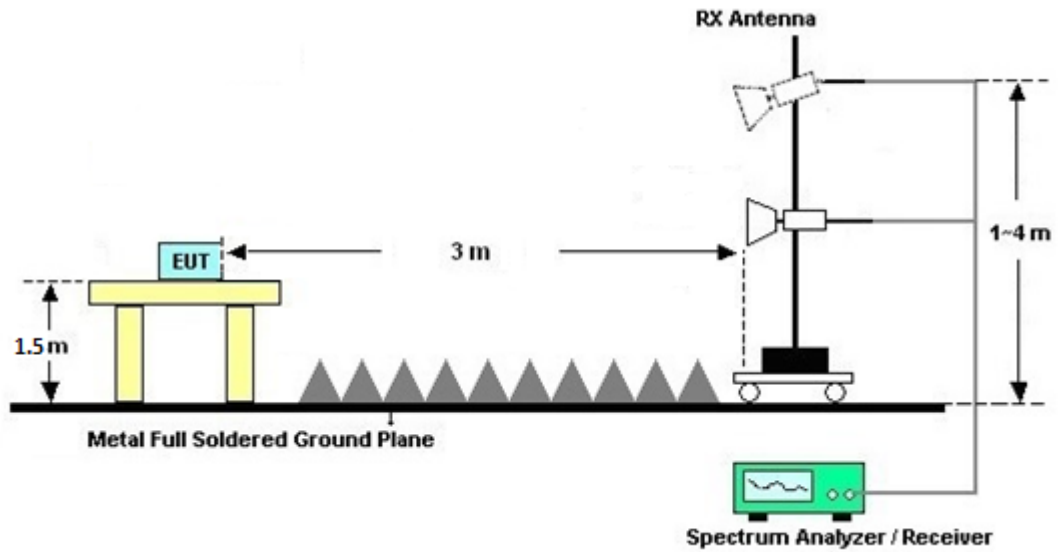


<TXBF Modes>

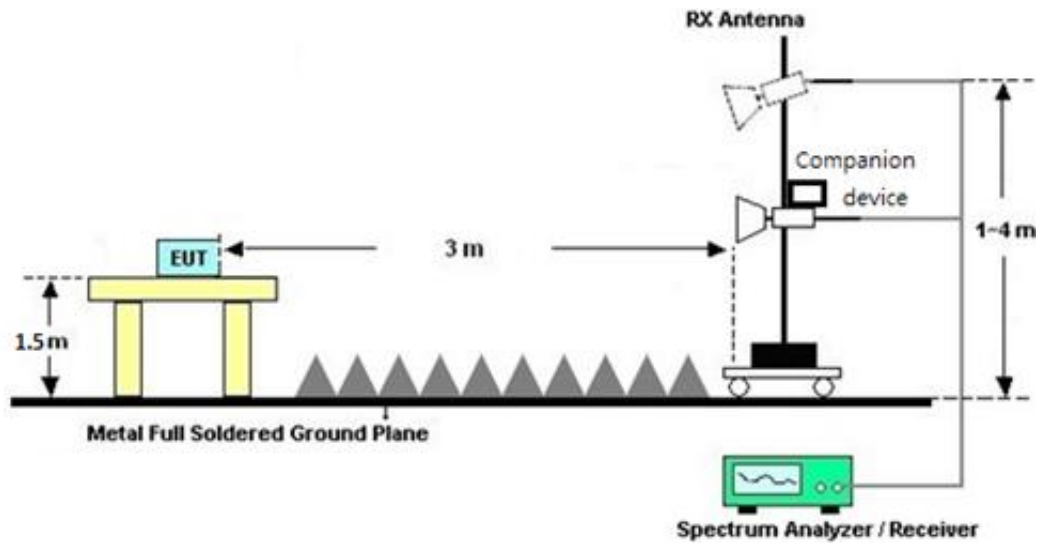


For radiated test from 1GHz to 18GHz

<CDD Mode>

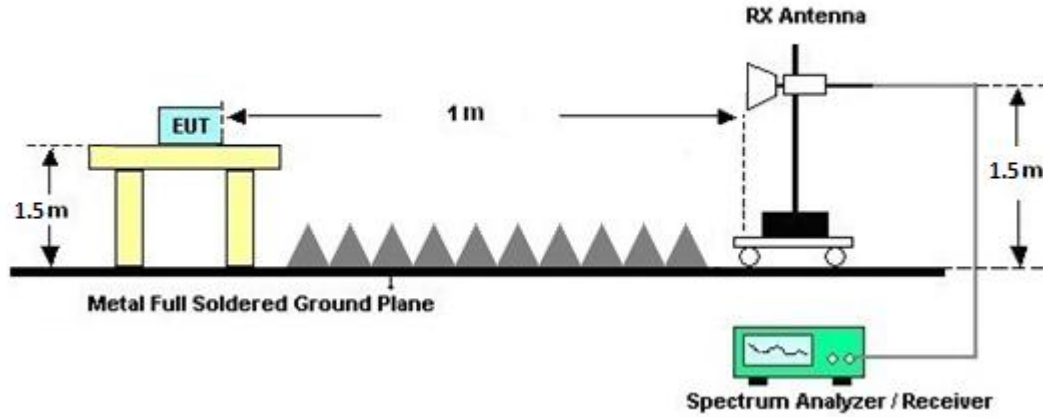


<TXBF Modes>

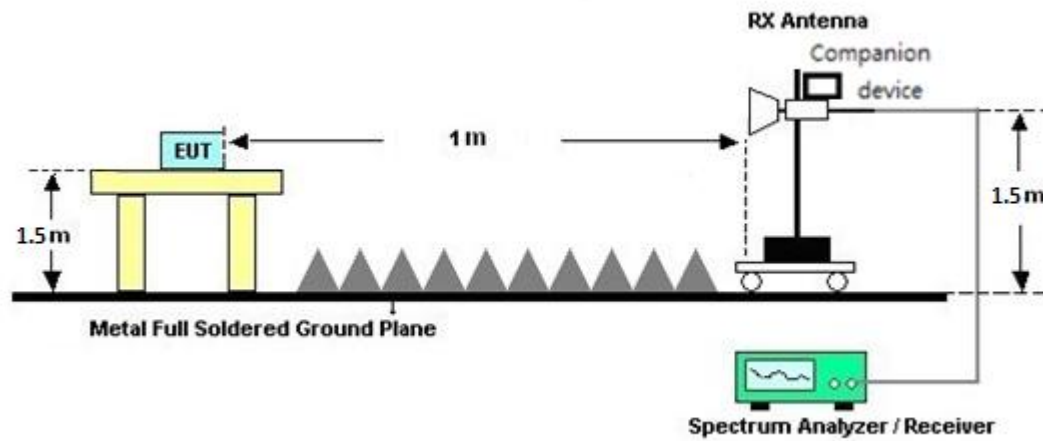


For radiated test above 18GHz

<CDD Mode>



<TXBF Modes>



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

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 comes out very similar.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.2.7 Duty Cycle

Please refer to Appendix C.

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

Please refer to Appendix B.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Jan. 08, 2025~ Jan. 12, 2026	Dec. 10, 2026	Radiation (03CH23-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D-06	62028 & 003	30MHz~1GHz	Nov. 26, 2025	Jan. 08, 2025~ Jan. 12, 2026	Nov. 25, 2026	Radiation (03CH23-HY)
Amplifier	SONOMA	310N	421582	9kHz~1GHz	Jul. 13, 2025	Jan. 08, 2025~ Jan. 12, 2026	Jul. 12, 2026	Radiation (03CH23-HY)
Amplifier	EMEC	EM01G18GA	060878	1GHz~18GHz	Sep. 26, 2025	Jan. 08, 2025~ Jan. 12, 2026	Sep. 25, 2026	Radiation (03CH23-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C05A18E N	1GHz~18GHz	Jul. 02,2025	Jan. 08, 2025~ Jan. 12, 2026	Jul. 01, 2026	Radiation (03CH23-HY)
Signal Analyzer	Keysight	N9010B	MY62170337	10Hz~44GHz	Aug. 26, 2025	Jan. 08, 2025~ Jan. 12, 2026	Aug. 25, 2026	Radiation (03CH23-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Jan. 08, 2025~ Jan. 12, 2026	Aug. 25, 2026	Radiation (03CH23-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9170	1225	18GHz~40GHz	Jul. 02,2025	Jan. 08, 2025~ Jan. 12, 2026	Jul. 01, 2026	Radiation (03CH23-HY)
Hygrometer	TECPEL	DTM-303A	TP210001	N/A	Nov. 06, 2025	Jan. 08, 2025~ Jan. 12, 2026	Nov. 05, 2026	Radiation (03CH23-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 08, 2025~ Jan. 12, 2026	N/A	Radiation (03CH23-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jan. 08, 2025~ Jan. 12, 2026	N/A	Radiation (03CH23-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jan. 08, 2025~ Jan. 12, 2026	N/A	Radiation (03CH23-HY)
Software	Audix	E3 6.09824_2019 122	RK-002348	N/A	N/A	Jan. 08, 2025~ Jan. 12, 2026	N/A	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804395/2	30MHz~40GHz	Nov. 25, 2025	Jan. 08, 2025~ Jan. 12, 2026	Nov. 24, 2026	Radiation (03CH23-HY)
RF Cable	EMC	EMC101Y	231115/23111 9/231122	30MHz~40GHz	Nov. 25, 2025	Jan. 08, 2025~ Jan. 12, 2026	Nov. 24, 2026	Radiation (03CH23-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
<CDD Mode>								
Hygrometer	TECEP	DTM-303A	TP201996	N/A	Nov. 04, 2025	Jan. 12, 2026~ Mar. 04, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015S NO37 (NO:167)	10MHz~6GHz	Nov. 14, 2025	Jan. 12, 2026~ Mar. 04, 2026	Nov. 13, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 29, 2025	Jan. 12, 2026~ Mar. 04, 2026	Aug. 28, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC190006 7 (BOX7)	N/A	Jul. 02, 2025	Jan. 12, 2026~ Mar. 04, 2026	Jul. 01, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final _version_240 513	N/A	Conducted Other Test Item	N/A	Jan. 12, 2026~ Mar. 04, 2026	N/A	Conducted (TH05-HY)
<TXBF Mode>								
Hygrometer	TECEP	DTM-303A	TP201996	N/A	Nov. 04, 2025	Jan. 12, 2026~ Mar. 10, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015S NO37 (NO:167)	10MHz~6GHz	Nov. 14, 2025	Jan. 12, 2026~ Mar. 10, 2026	Nov. 13, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 29, 2025	Jan. 12, 2026~ Mar. 10, 2026	Aug. 28, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC190006 7 (BOX7)	N/A	Jul. 02, 2025	Jan. 12, 2026~ Mar. 10, 2026	Jul. 01, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final _version_240 513	N/A	Conducted Other Test Item	N/A	Jan. 12, 2026~ Mar. 10, 2026	N/A	Conducted (TH05-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% ($U = 2Uc(y)$)	5.2 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
--	--------

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. Test Result of Conducted Test Items

Test Engineer:	Junyu Jhou	Temperature:	21~25	°C
Test Date:	2026/1/12~2026/3/4	Relative Humidity:	51~54	%

<non-TXBF Mode>

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO 4Tx Mode														
Mod.	Data Rate	N _{TX}	CH	Freq. (MHz)	Average Conducted Power (dBm)					Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant1	Ant2	Ant3	Ant4	SUM					
11b	1Mbps	4	1	2412	19.20	19.20	19.20	19.30	25.25	30.00	2.82	28.07	36.00	Pass
11b	1Mbps	4	6	2437	19.30	19.30	19.10	19.40	25.30	30.00	2.82	28.12	36.00	Pass
11b	1Mbps	4	11	2462	19.30	19.00	19.10	19.30	25.20	30.00	2.82	28.02	36.00	Pass
11g	6Mbps	4	1	2412	17.90	17.50	17.60	17.70	23.70	30.00	2.82	26.52	36.00	Pass
11g	6Mbps	4	2	2417	18.10	17.80	17.90	17.90	23.95	30.00	2.82	26.77	36.00	Pass
11g	6Mbps	4	6	2437	18.70	18.00	18.40	18.50	24.43	30.00	2.82	27.25	36.00	Pass
11g	6Mbps	4	10	2457	17.90	17.50	17.70	17.90	23.77	30.00	2.82	26.59	36.00	Pass
11g	6Mbps	4	11	2462	17.80	17.30	17.50	17.70	23.60	30.00	2.82	26.42	36.00	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO 4Tx Mode															
Mod.	Data Rate	N	Tx CH	Freq. (MHz)	RU Config	Average Conducted Power (dBm)					Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant1	Ant2	Ant3	Ant4	SUM					
EHT20	MCS0	4	1	2412	Full	17.90	17.60	17.80	17.80	23.80	30.00	2.82	26.62	36.00	Pass
EHT20	MCS0	4	2	2417	Full	17.90	17.50	17.80	17.90	23.80	30.00	2.82	26.62	36.00	Pass
EHT20	MCS0	4	6	2437	Full	19.10	18.80	19.20	19.10	25.07	30.00	2.82	27.89	36.00	Pass
EHT20	MCS0	4	10	2457	Full	18.20	17.80	18.00	18.20	24.07	30.00	2.82	26.89	36.00	Pass
EHT20	MCS0	4	11	2462	Full	17.80	17.40	17.60	17.70	23.65	30.00	2.82	26.47	36.00	Pass
EHT40	MCS0	4	3	2422	Full	17.40	16.90	17.20	17.30	23.22	30.00	2.82	26.04	36.00	Pass
EHT40	MCS0	4	4	2427	Full	17.10	16.70	17.00	17.20	23.02	30.00	2.82	25.84	36.00	Pass
EHT40	MCS0	4	6	2437	Full	17.60	17.30	17.50	17.60	23.52	30.00	2.82	26.34	36.00	Pass
EHT40	MCS0	4	9	2452	Full	17.60	17.40	17.40	17.60	23.52	30.00	2.82	26.34	36.00	Pass

<TXBF Mode>

Report Number : FR5D1130A

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO 4Tx Mode																
Mod.	Data Rate	N _{Tx}	CH	Freq. (MHz)	RU Config	Average Conducted Power (dBm)					Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	
						Ant1	Ant2	Ant3	Ant4	SUM						
EHT20	MCS0	4	1	2412	Full	18.50	18.40	18.10	18.00	24.28	29.54	6.46	30.74	36.00	Pass	
EHT20	MCS0	4	2	2417	Full	18.40	18.30	18.00	18.20	24.25	29.54	6.46	30.71	36.00	Pass	
EHT20	MCS0	4	6	2437	Full	18.30	18.20	18.20	18.20	24.25	29.54	6.46	30.71	36.00	Pass	
EHT20	MCS0	4	10	2457	Full	18.10	18.10	17.80	18.20	24.07	29.54	6.46	30.53	36.00	Pass	
EHT20	MCS0	4	11	2462	Full	18.20	18.10	17.80	18.10	24.07	29.54	6.46	30.53	36.00	Pass	
EHT40	MCS0	4	3	2422	Full	17.90	17.90	17.80	17.90	23.90	29.54	6.46	30.36	36.00	Pass	
EHT40	MCS0	4	4	2427	Full	17.90	18.00	17.90	17.80	23.92	29.54	6.46	30.38	36.00	Pass	
EHT40	MCS0	4	6	2437	Full	18.40	18.10	17.90	18.20	24.17	29.54	6.46	30.63	36.00	Pass	
EHT40	MCS0	4	9	2452	Full	18.10	17.80	17.70	17.90	23.90	29.54	6.46	30.36	36.00	Pass	



Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Leo Li and Karl Hou	Temperature :	19.0 ~ 23.0°C
		Relative Humidity :	60.0 ~ 64.5%

Note symbol

-L	Low channel location
-R	High channel location

B1. Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	4Tx	802.11g	01	2412	6Mbps	-	-
Mode 2	2400-2483.5	4Tx	802.11b	06	2437	1Mbps	-	LF

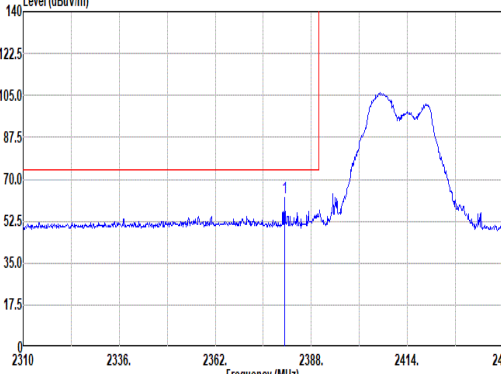
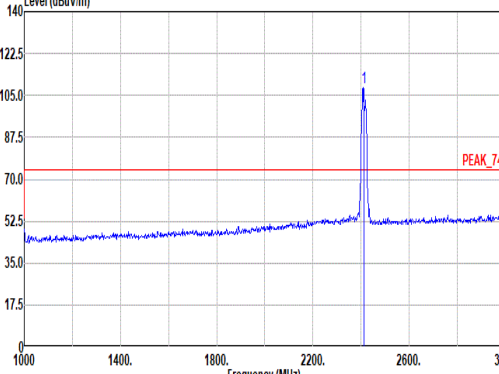
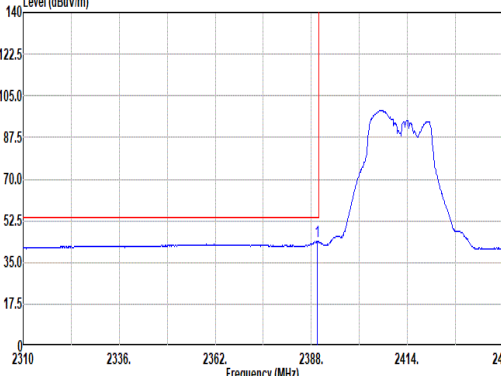
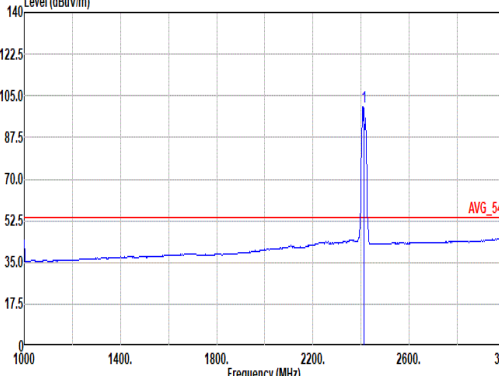
B2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11g	01	2389.95	46.77	54.00	-7.23	V	Avg.	Pass	-	Band Edge
	802.11g	01	4824.00	47.42	74.00	-26.58	V	Peak	Pass	-	Harmonic
2	802.11b	06	800.18	39.79	46.00	-6.21	V	Peak	Pass	-	LF



FCC RADIO TEST REPORT

Report No. : FR5D1130A

		1																																																						
Mode		Band Edge																																																						
		2400-2483.5_802.11g_CH01_2412MHz																																																						
ANT		4Tx																																																						
Pol.		Horizontal																																																						
Peak		Level (dBuV/m) Date: 2026-01-08  Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : 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 colspan="2">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></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>2388.05</td><td>62.15</td><td>74.00</td><td>-11.85</td><td>49.00</td><td>26.00</td><td>7.10</td><td>31.83</td><td>10.28</td><td>400 132 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	2388.05	62.15	74.00	-11.85	49.00	26.00	7.10	31.83	10.28	400 132 Peak
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Peak Avg	Level (dBuV/m) Date: 2026-01-08 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_LE2C05A18EN_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</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>4824.00</td><td>46.64</td><td>74.00</td><td>-27.36</td><td>34.27</td><td>32.45</td><td>10.53</td><td>32.32</td><td>1.71</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>23313.00</td><td>41.57</td><td>74.00</td><td>-32.43</td><td>52.71</td><td>39.10</td><td>21.37</td><td>62.07</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	4824.00	46.64	74.00	-27.36	34.27	32.45	10.53	32.32	1.71	--	Peak	2	23313.00	41.57	74.00	-32.43	52.71	39.10	21.37	62.07	-9.54	--	Peak	Level (dBuV/m) Date: 2026-01-08 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_LE2C05A18EN_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</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>4824.00</td><td>47.42</td><td>74.00</td><td>-26.58</td><td>35.05</td><td>32.45</td><td>10.53</td><td>32.32</td><td>1.71</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>20996.00</td><td>45.57</td><td>74.00</td><td>-28.43</td><td>60.31</td><td>38.10</td><td>20.00</td><td>63.30</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	4824.00	47.42	74.00	-26.58	35.05	32.45	10.53	32.32	1.71	--	Peak	2	20996.00	45.57	74.00	-28.43	60.31	38.10	20.00	63.30	-9.54	--	Peak
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Mode	1	
	Harmonic	
	2400-2483.5_802.11g_CH01_2412MHz	
ANT	4Tx	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	Level (dBuV/m) Date: 2026-01-08 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL	Level (dBuV/m) Date: 2026-01-08 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_250702 VERTICAL



Mode	2																																																																																																																																																																																													
	LF																																																																																																																																																																																													
	2400-2483.5_802.11b_CH06_2437MHz																																																																																																																																																																																													
ANT	4Tx																																																																																																																																																																																													
Pol.	Horizontal					Vertical																																																																																																																																																																																								
QPI Peak	Level (dBuV/m) Date: 2026-01-12 Site : 03CH23-HY Condition: QP 3m CBL6111D_62028 & 003_251126 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</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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 deg</th></tr><tr><td>1</td><td>86.26</td><td>27.09</td><td>40.00</td><td>-12.91</td><td>43.83</td><td>14.68</td><td>1.00</td><td>32.51</td><td>0.09 -- -- Peak</td></tr><tr><td>2</td><td>147.37</td><td>34.54</td><td>43.50</td><td>-8.96</td><td>48.07</td><td>17.37</td><td>1.40</td><td>32.45</td><td>0.15 -- -- Peak</td></tr><tr><td>3</td><td>238.79</td><td>28.41</td><td>46.00</td><td>-17.59</td><td>42.71</td><td>16.29</td><td>1.82</td><td>32.51</td><td>0.10 -- -- Peak</td></tr><tr><td>4</td><td>322.94</td><td>31.30</td><td>46.00</td><td>-14.70</td><td>41.04</td><td>19.53</td><td>2.26</td><td>32.55</td><td>0.22 -- -- Peak</td></tr><tr><td>5</td><td>718.70</td><td>39.14</td><td>46.00</td><td>-6.86</td><td>41.13</td><td>26.96</td><td>3.48</td><td>32.64</td><td>0.21 -- -- Peak</td></tr><tr><td>6</td><td>800.18</td><td>38.99</td><td>46.00</td><td>-7.01</td><td>39.38</td><td>28.07</td><td>3.69</td><td>32.37</td><td>0.22 -- -- 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	86.26	27.09	40.00	-12.91	43.83	14.68	1.00	32.51	0.09 -- -- Peak	2	147.37	34.54	43.50	-8.96	48.07	17.37	1.40	32.45	0.15 -- -- Peak	3	238.79	28.41	46.00	-17.59	42.71	16.29	1.82	32.51	0.10 -- -- Peak	4	322.94	31.30	46.00	-14.70	41.04	19.53	2.26	32.55	0.22 -- -- Peak	5	718.70	39.14	46.00	-6.86	41.13	26.96	3.48	32.64	0.21 -- -- Peak	6	800.18	38.99	46.00	-7.01	39.38	28.07	3.69	32.37	0.22 -- -- Peak	Level (dBuV/m) Date: 2026-01-12 Site : 03CH23-HY Condition: QP 3m CBL6111D_62028 & 003_251126 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</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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 deg</th></tr><tr><td>1</td><td>42.61</td><td>31.15</td><td>40.00</td><td>-8.85</td><td>44.55</td><td>18.41</td><td>0.64</td><td>32.54</td><td>0.09 -- -- Peak</td></tr><tr><td>2</td><td>146.40</td><td>37.09</td><td>43.50</td><td>-6.41</td><td>50.60</td><td>17.41</td><td>1.39</td><td>32.45</td><td>0.14 -- -- Peak</td></tr><tr><td>3</td><td>225.94</td><td>25.40</td><td>46.00</td><td>-20.60</td><td>40.21</td><td>15.81</td><td>1.79</td><td>32.51</td><td>0.10 -- -- Peak</td></tr><tr><td>4</td><td>513.06</td><td>31.00</td><td>46.00</td><td>-15.00</td><td>36.51</td><td>24.22</td><td>2.87</td><td>32.69</td><td>0.09 -- -- Peak</td></tr><tr><td>5</td><td>718.70</td><td>38.28</td><td>46.00</td><td>-7.72</td><td>40.27</td><td>26.96</td><td>3.48</td><td>32.64</td><td>0.21 -- -- Peak</td></tr><tr><td>6</td><td>800.18</td><td>39.79</td><td>46.00</td><td>-6.21</td><td>40.18</td><td>28.07</td><td>3.69</td><td>32.37</td><td>0.22 -- -- 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	42.61	31.15	40.00	-8.85	44.55	18.41	0.64	32.54	0.09 -- -- Peak	2	146.40	37.09	43.50	-6.41	50.60	17.41	1.39	32.45	0.14 -- -- Peak	3	225.94	25.40	46.00	-20.60	40.21	15.81	1.79	32.51	0.10 -- -- Peak	4	513.06	31.00	46.00	-15.00	36.51	24.22	2.87	32.69	0.09 -- -- Peak	5	718.70	38.28	46.00	-7.72	40.27	26.96	3.48	32.64	0.21 -- -- Peak	6	800.18	39.79	46.00	-6.21	40.18	28.07	3.69	32.37	0.22 -- -- Peak
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																																				
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Appendix C. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
4TX	2.4GHz 802.11g	94.87	2072	0.48	510Hz

