



FCC RADIO TEST REPORT

FCC ID : 2AEM4-FF02
Equipment : Wireless Router
Brand Name : eero
Model Name : FF02
Applicant : eero LLC
660 3rd St Fl 4, San Francisco, California, 94107, United States
Manufacturer : eero LLC
660 3rd St Fl 4, San Francisco, California, 94107, United States
Standard : FCC Part 15 Subpart C §15.247

The product was received on Feb. 11, 2026 and testing was performed from Feb. 13, 2026 to Mar. 25, 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.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR621004A	01	Initial issue of report	May 26, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.247(b)(3) 15.247(b)(4)	Output Power	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	Pass	-
3.6	15.207	AC Conducted Emission	Pass	-
3.7	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/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: Alan Liu

Report Producer: Vina Su

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Bluetooth, IEEE 802.15.4, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax.		
Antenna Type IEEE 802.15.4: PIFA Antenna		
Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	2.47

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, 03CH16-HY ,CO07

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 C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ ANSI C63.10-2013

Remark:

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



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	11	2405	19	2445
	12	2410	20	2450
	13	2415	21	2455
	14	2420	22	2460
	15	2425	23	2465
	16	2430	24	2470
	17	2435	25	2475
	18	2440	26	2480

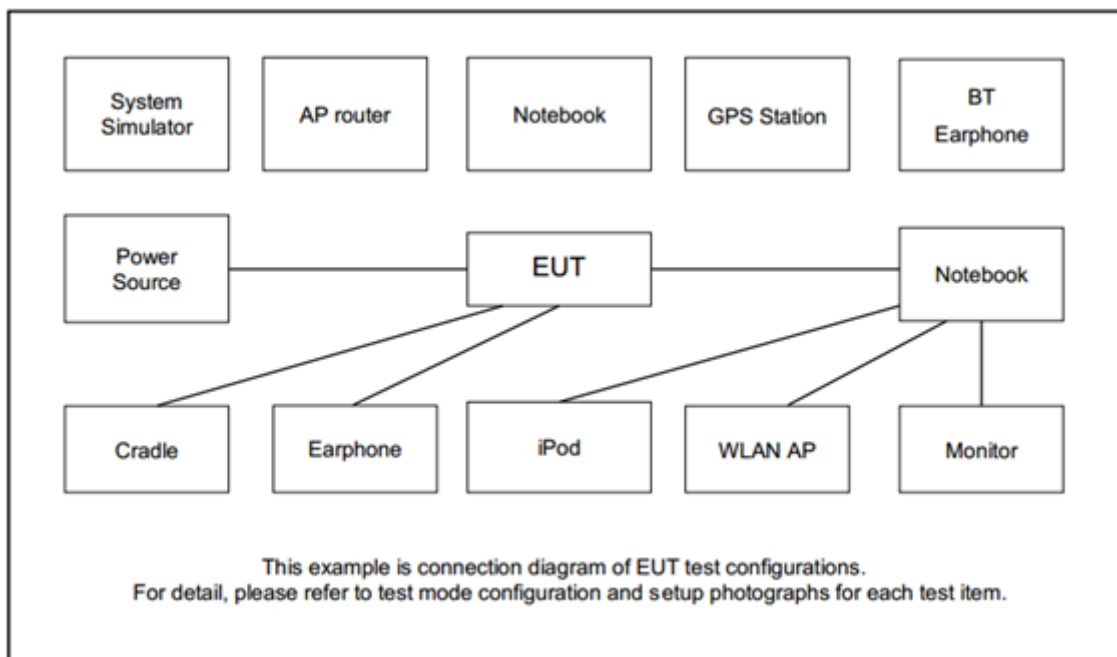
2.2 Test Mode

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

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases	
AC Conducted Emission	Mode 1 :WLAN 2.4G Link + Bluetooth Tx + RJ-45(LAN/WAN) Link + AC Adapter(1st Generation PSU Luxshare 15W type A)(C120011)
	Mode 2 WLAN 2.4G Link + IEEE 802.15.4 Link + RJ-45(LAN/WAN) Link + AC Adapter(1st Generation PSU Luxshare 15W type A)(C120011)
Remark: The worst case of Conducted Emission is mode 2; only the test data of it was reported. The detailed Radiated test modes are shown in Appendix C.	

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	Dell	Latitude 3400	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
2.	Notebook	Dell	Latitude 3420	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
3.	Button	SmartThings	IM6001-BTP01	2AF4S-IM6001-BTP01	N/A	N/A



2.5 EUT Operation Test Setup

The RF test items, utility "RadioControlConsole.exe (v4.0.0.0)" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

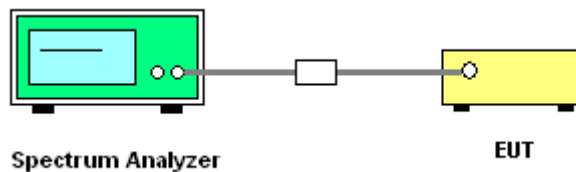
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth VBW $\geq 3 * RBW$. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 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 of directional gain greater than 6 dBi is used, the peak 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.

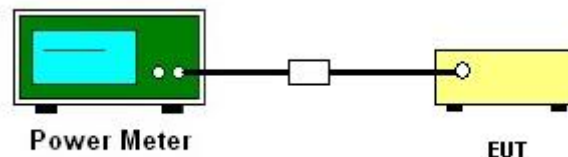
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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.
3. The path loss is compensated to the results for each measurement.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

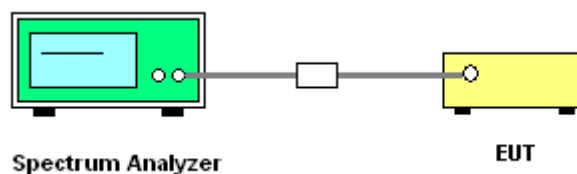
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth (VBW) = 10 kHz. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6 dB BW)
5. Detector = peak, Sweep time = No faster than coupled (auto) time, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100 kHz is a reference level and is used as 20 dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 30 dB down from the highest emission level within the authorized band.

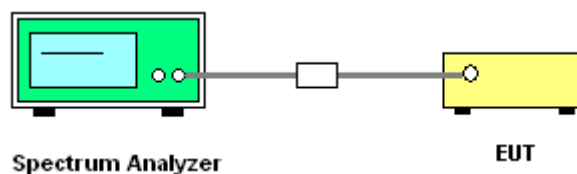
3.4.2 Measuring Instruments

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

3.4.3 Test Procedure

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer 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. Set RBW = 100 kHz, VBW = 300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges Plots

Please refer to Appendix A.

3.4.6 Test Result of Conducted Spurious Emission Plots

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

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 transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required 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

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

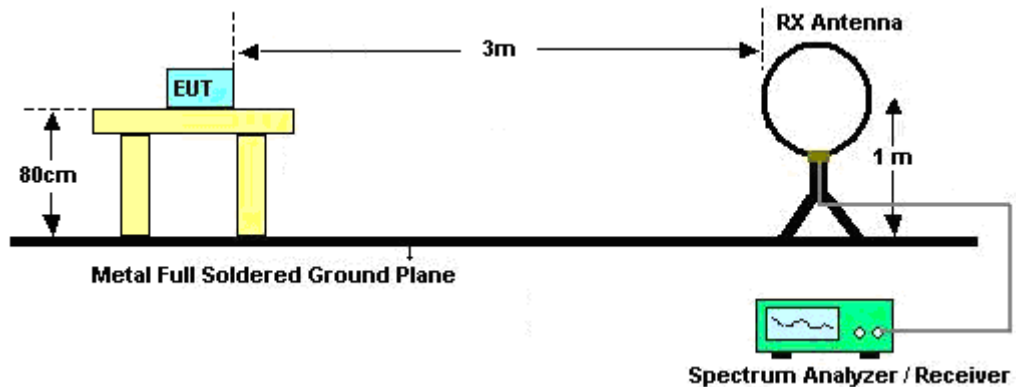
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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 - Preamp 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:
The procedure for method trace averaging is as follows:
 - a) RBW = 1 MHz.
 - b) VBW $\geq [3 \times \text{RBW}]$.
 - c) Detector = RMS (power averaging), if $[\text{span} / (\# \text{ of points in sweep})] \leq \text{RBW} / 2$. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
 - d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - e) Sweep time = auto.



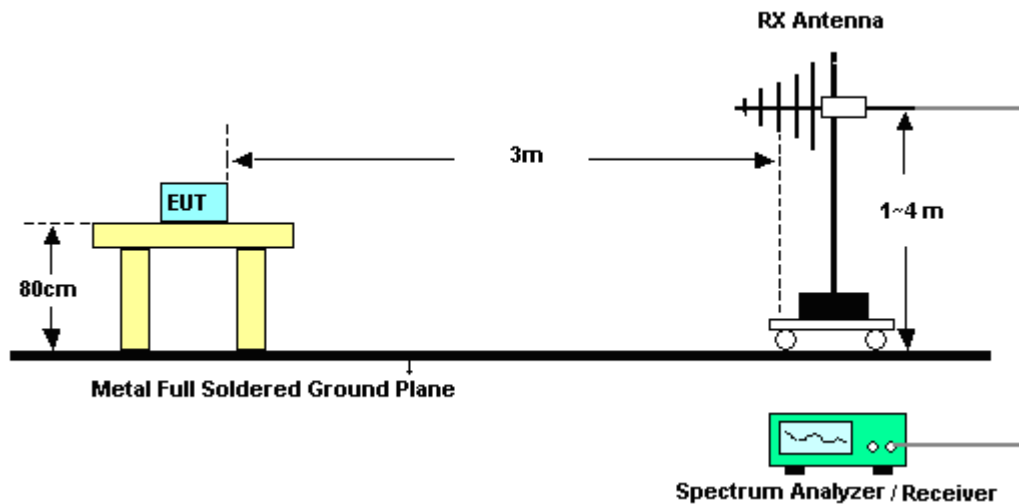
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of $1 / D$, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
- g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
 - i. If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.
 - ii. If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

3.5.4 Test Setup

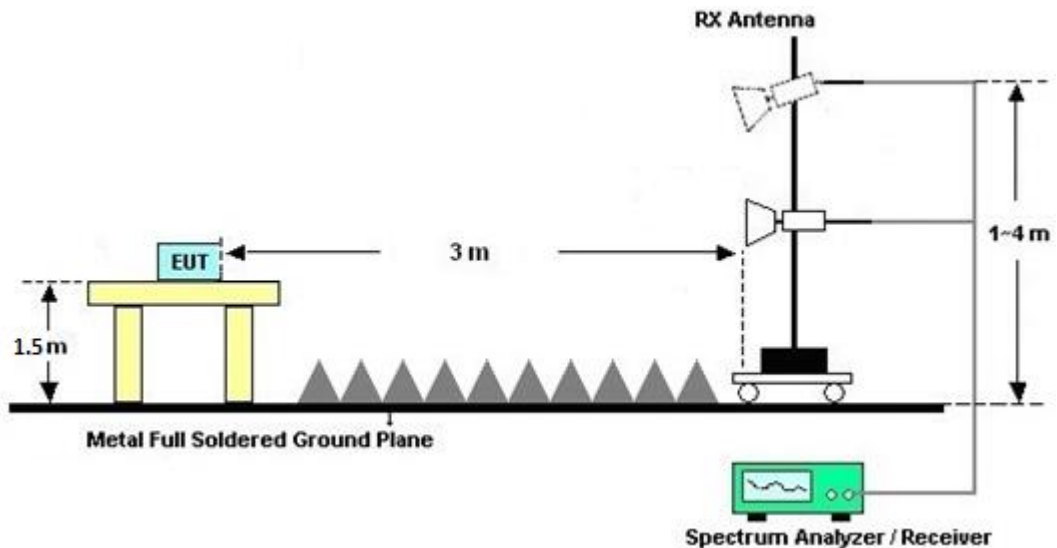
For radiated test below 30MHz



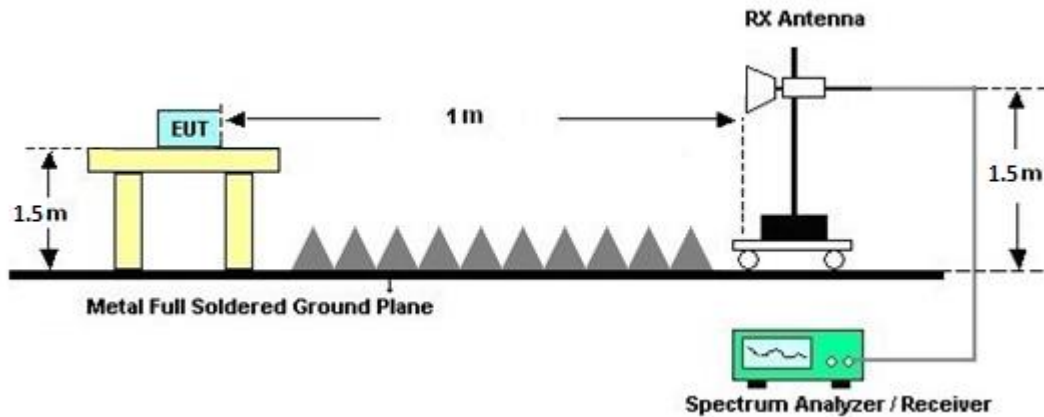
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.5.5 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.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

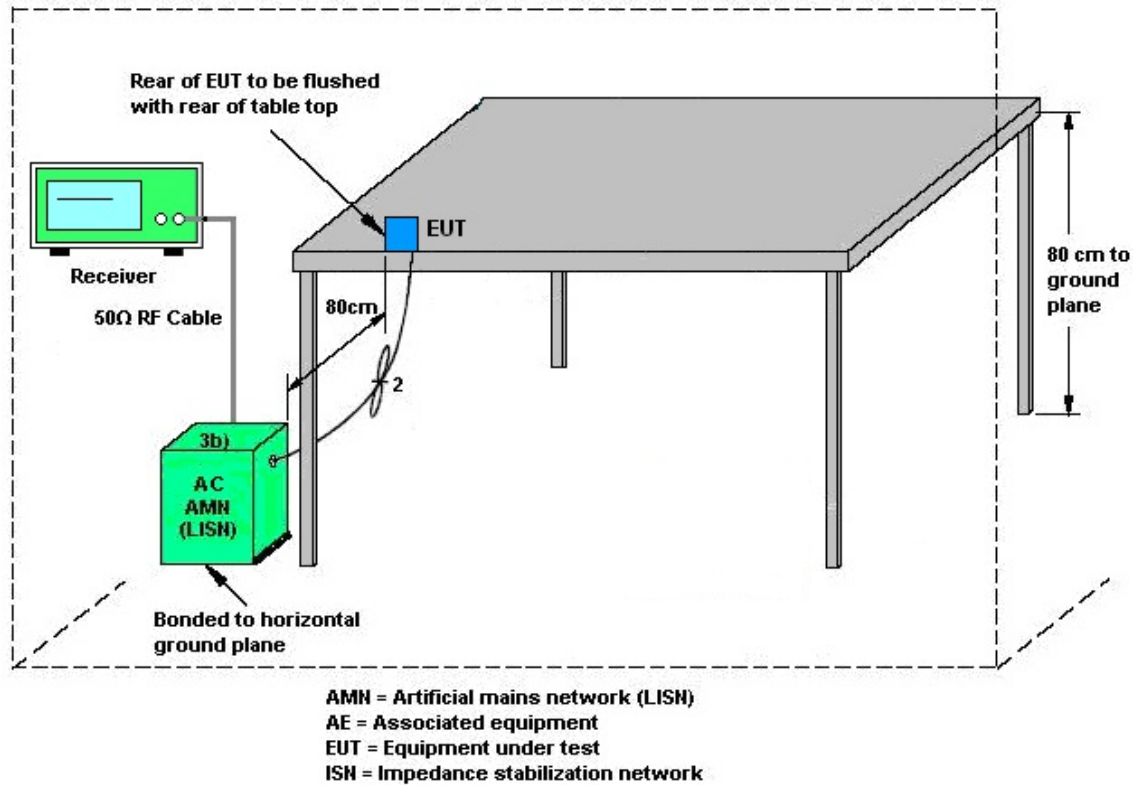
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
6. The frequency range from 150 kHz to 30 MHz is scanned.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 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.

3.7.2 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
Hygrometer	TECEPIL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Feb. 13, 2026~ Mar. 11, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO 37 (NO:167)	10MHz~6GHz	Nov. 14, 2025	Feb. 13, 2026~ Mar. 11, 2026	Nov. 13, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Dec. 16, 2025	Feb. 13, 2026~ Mar. 11, 2026	Dec. 15, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900067 (BOX7)	N/A	Jul. 02, 2025	Feb. 13, 2026~ Mar. 11, 2026	Jul. 01, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_24082 3	N/A	Conducted Other Test Item	N/A	Feb. 13, 2026~ Mar. 11, 2026	N/A	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Mar. 6, 2026	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 6, 2026	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 20, 2025	Mar. 6, 2026	Oct. 19, 2026	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 2, 2026	Mar. 6, 2026	Mar. 1, 2027	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Mar. 6, 2026	Mar. 23, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Oct. 21, 2025	Mar. 6, 2026	Oct. 20, 2026	Conduction (CO07-HY)

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Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9kHz~30MHz	Dec. 11, 2025	Feb. 27, 2026 ~ Mar. 25, 2026	Dec. 10, 2026	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	1224	18GHz~40GHz	Jul. 02, 2025	Feb. 27, 2026 ~ Mar. 25, 2026	Jul. 01, 2026	Radiation (03CH16-HY)
Spectrum Analyzer	Keysight	N9010B	MY60241055	10Hz~44GHz	Nov. 18, 2025	Feb. 27, 2026 ~ Mar. 25, 2026	Nov. 17, 2026	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Nov. 26, 2025	Feb. 27, 2026 ~ Mar. 25, 2026	Nov. 25, 2026	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz to 1GHz	Oct. 04, 2025	Feb. 27, 2026 ~ Mar. 25, 2026	Oct. 03, 2026	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 27, 2025	Feb. 27, 2026 ~ Mar. 12, 2026	Mar. 26, 2026	Radiation (03CH16-HY)
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02038	1GHz~18GHz	Aug. 07, 2025	Mar. 12, 2026 ~ Mar. 25, 2026	Aug. 07, 2026	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jun. 30, 2025	Feb. 27, 2026 ~ Mar. 25, 2026	Jun. 29, 2026	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Sep. 12, 2025	Feb. 27, 2026 ~ Mar. 25, 2026	Sep. 11, 2026	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 22, 2025	Feb. 27, 2026 ~ Mar. 25, 2026	Dec. 21, 2026	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 26, 2025	Feb. 27, 2026 ~ Mar. 25, 2026	May 25, 2026	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 13, 2026	Feb. 27, 2026 ~ Mar. 25, 2026	Jan. 12, 2027	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN3	3GHz High Pass Filter	Jun. 26, 2025	Feb. 27, 2026 ~ Mar. 25, 2026	Jun. 25, 2026	Radiation (03CH16-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN27	6.75GHz High Pass Filter	Dec. 22, 2025	Feb. 27, 2026 ~ Mar. 25, 2026	Dec. 21, 2026	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 23, 2025	Feb. 27, 2026 ~ Mar. 25, 2026	Apr. 22, 2026	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLEX 104	EC-A5-300-5757,805935/4,802434/4	30MHz~18GHz	Aug. 06, 2025	Feb. 27, 2026 ~ Mar. 25, 2026	Aug. 05, 2026	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804012/2	18-40GHz	Dec. 18, 2025	Feb. 27, 2026 ~ Mar. 25, 2026	Dec. 17, 2026	Radiation (03CH16-HY)
Software	Audix	E3 230621 V9	RK-002393	N/A	N/A	Feb. 27, 2026 ~ Mar. 25, 2026	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Feb. 27, 2026 ~ Mar. 25, 2026	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Feb. 27, 2026 ~ Mar. 25, 2026	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Feb. 27, 2026 ~ Mar. 25, 2026	N/A	Radiation (03CH16-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.7 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.6 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2 dB
---	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Sylvia Li	Temperature:	21~25	°C
Test Date:	2026/02/13~2026/03/11	Relative Humidity:	51~54	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth											
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail			
802.15.4	250K	1	11	2405	2.215	1.555	0.50	Pass			
802.15.4	250K	1	18	2440	2.214	1.562	0.50	Pass			
802.15.4	250K	1	25	2475	2.204	1.552	0.50	Pass			
802.15.4	250K	1	26	2480	2.209	1.550	0.50	Pass			

TEST RESULTS DATA Average Power Table											
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducte d Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
802.15.4	250K	1	11	2405	17.20	30.00	2.47	19.67	36.00	Pass	18
802.15.4	250K	1	18	2440	18.20	30.00	2.47	20.67	36.00	Pass	19
802.15.4	250K	1	25	2475	18.30	30.00	2.47	20.77	36.00	Pass	19
802.15.4	250K	1	26	2480	6.40	30.00	2.47	8.87	36.00	Pass	7

TEST RESULTS DATA Peak Power Density									
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
802.15.4	250K	1	11	2405	14.46	2.67	2.47	8.00	Pass
802.15.4	250K	1	18	2440	15.53	3.80	2.47	8.00	Pass
802.15.4	250K	1	25	2475	15.59	4.14	2.47	8.00	Pass
802.15.4	250K	1	26	2480	3.75	-7.98	2.47	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

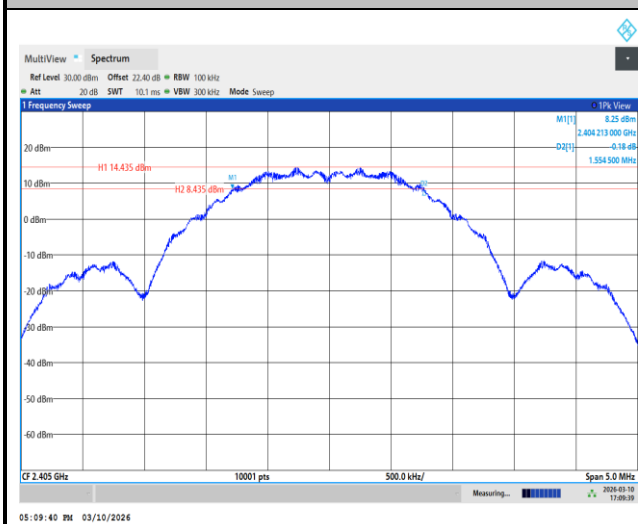


Number of TX = 1, Ant. 3 (Measured)

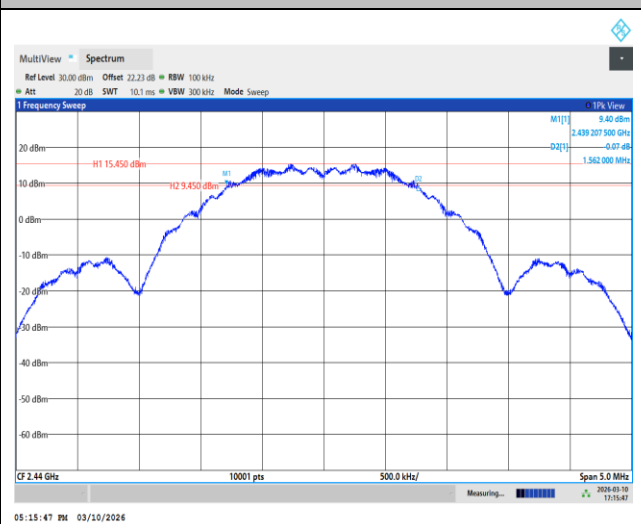
6dB Bandwidth

<IEEE 802.15.4>

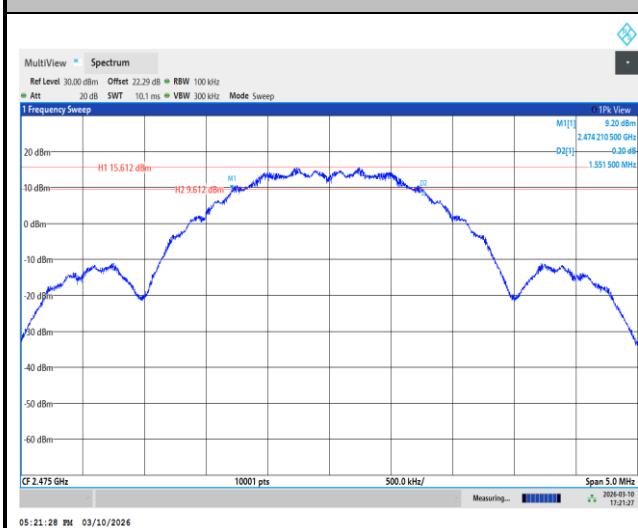
6 dB Bandwidth Plot on Channel 11



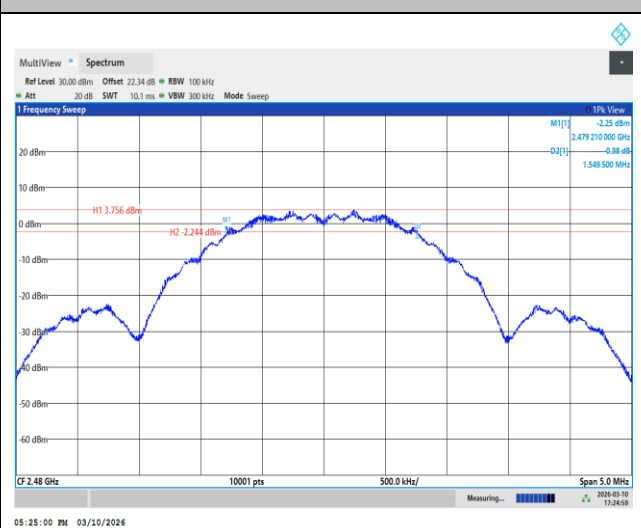
6 dB Bandwidth Plot on Channel 18



6 dB Bandwidth Plot on Channel 25

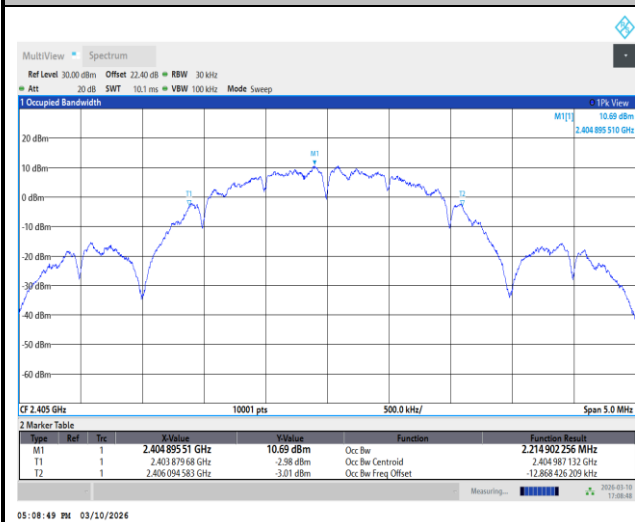
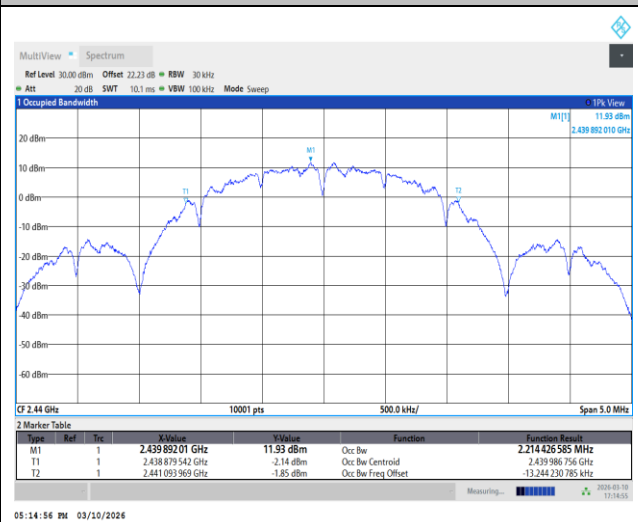
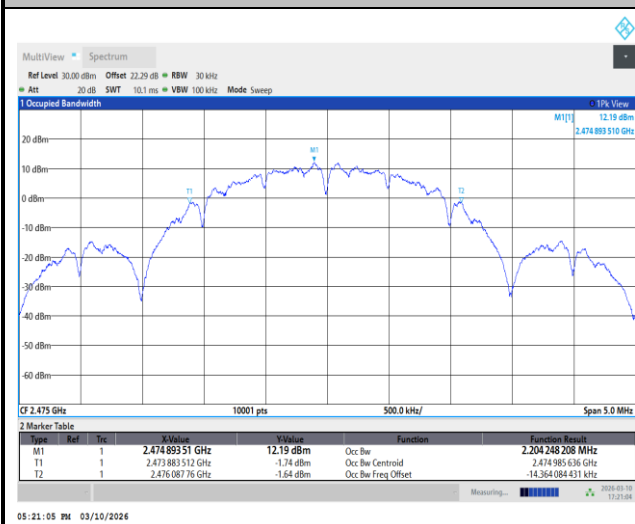
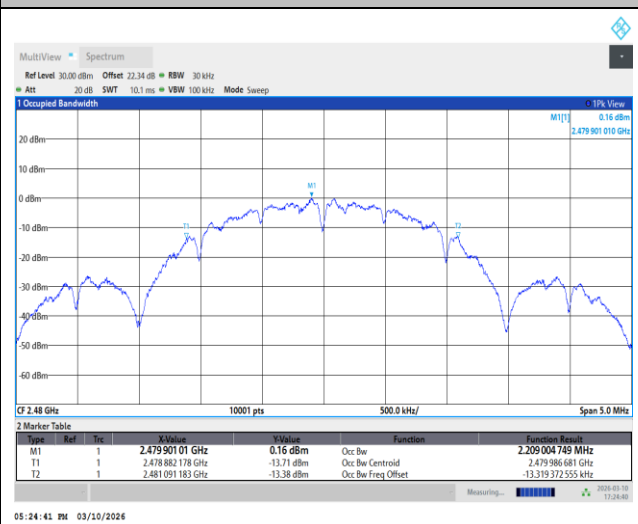


6 dB Bandwidth Plot on Channel 26



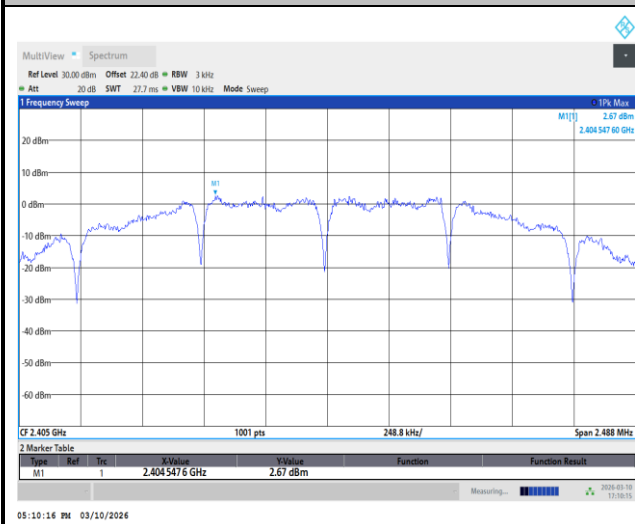
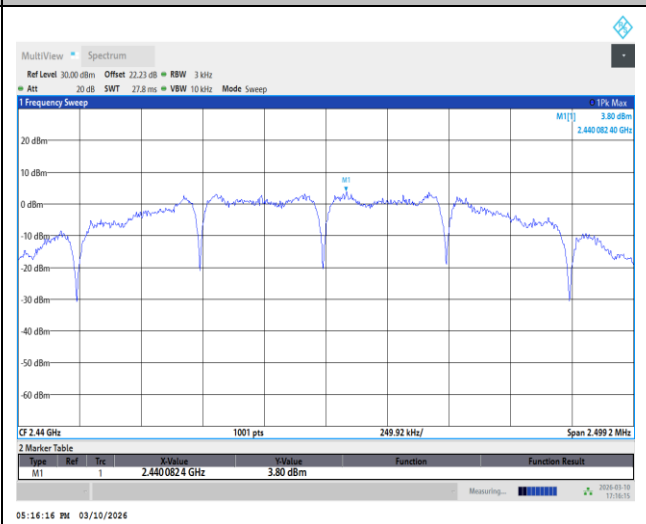
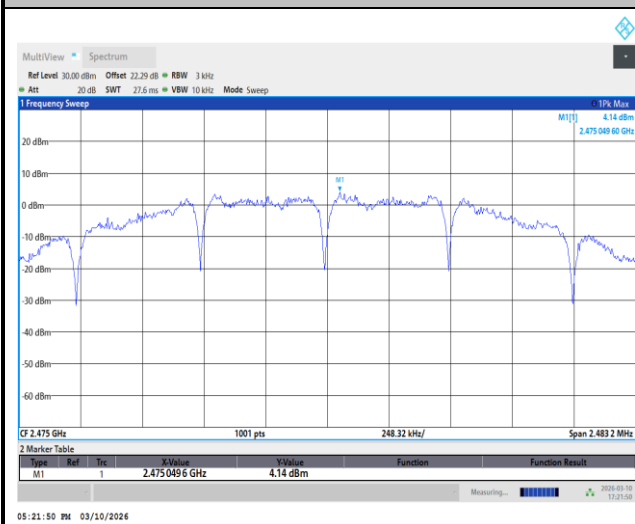
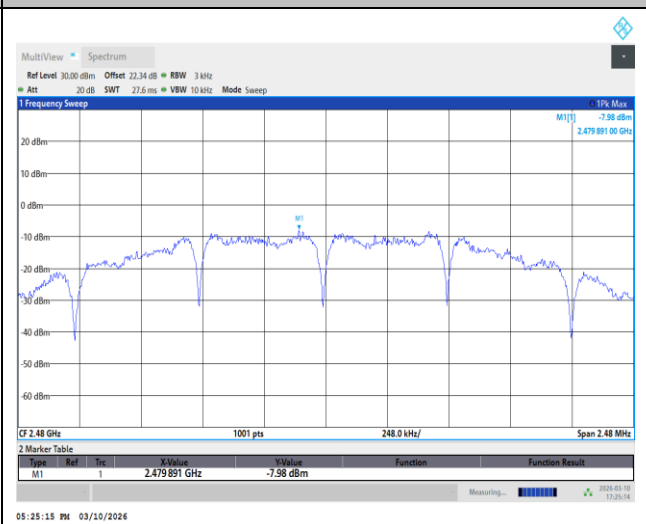
**99% Occupied Bandwidth**

<IEEE 802.15.4>

99% Occupied Bandwidth Plot on Channel 11**99% Occupied Bandwidth Plot on Channel 18****99% Occupied Bandwidth Plot on Channel 25****99% Occupied Bandwidth Plot on Channel 26**

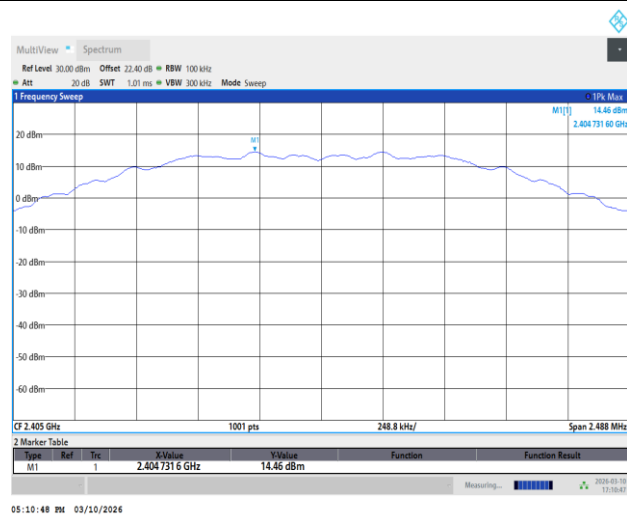
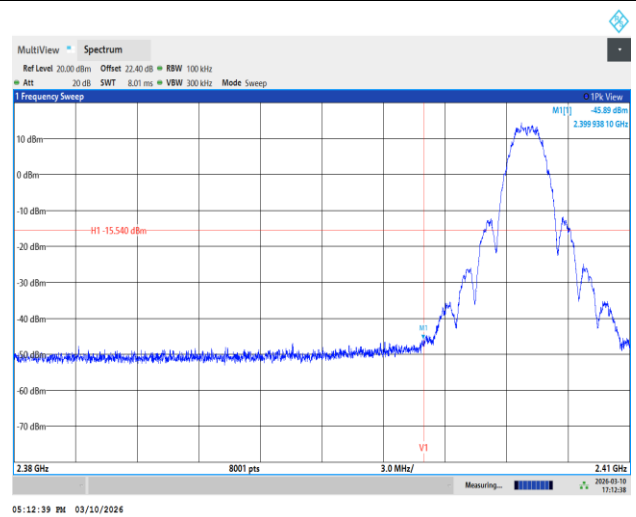
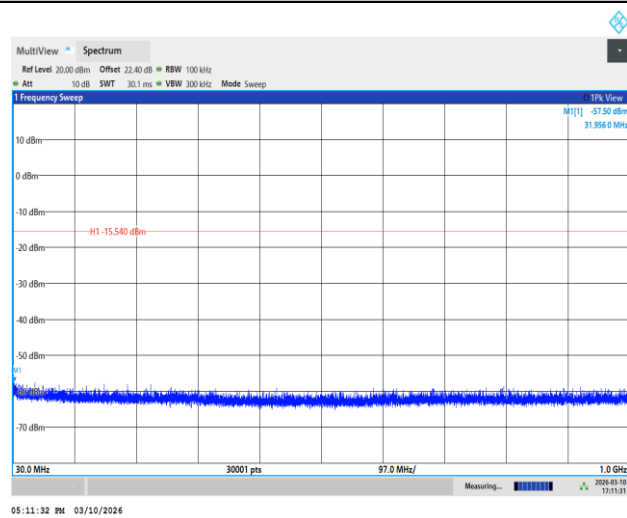
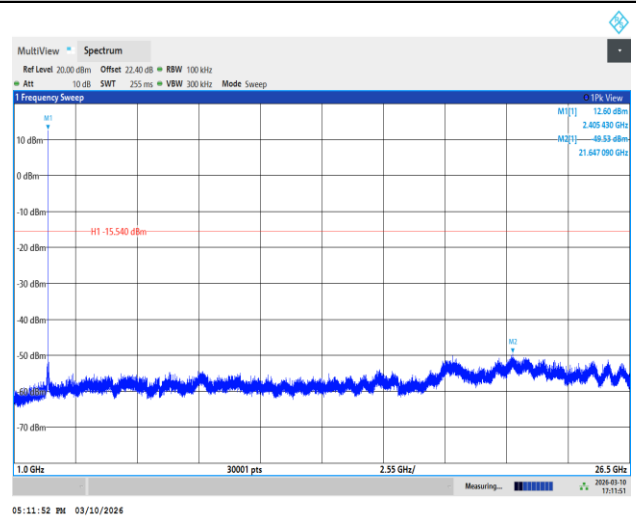
**Power Spectral Density (dBm/3kHz)**

<IEEE 802.15.4>

Power Density (dBm/3kHz) Plot Channel 11**Power Density (dBm/3kHz) Plot Channel 18****Power Density (dBm/3kHz) Plot Channel 25****Power Density (dBm/3kHz) Plot Channel 26**

**Band Edge and Conducted Spurious Emission**

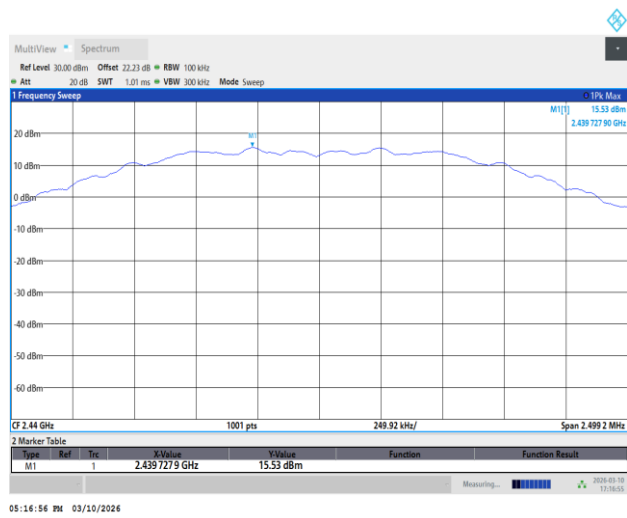
<IEEE 802.15.4>

Channel 11**100kHz PSD reference Level Plot****Plot on Channel 11****Spurious Emission 30MHz~1GHz Plot****Spurious Emission 1GHz~26.5GHz Plot**

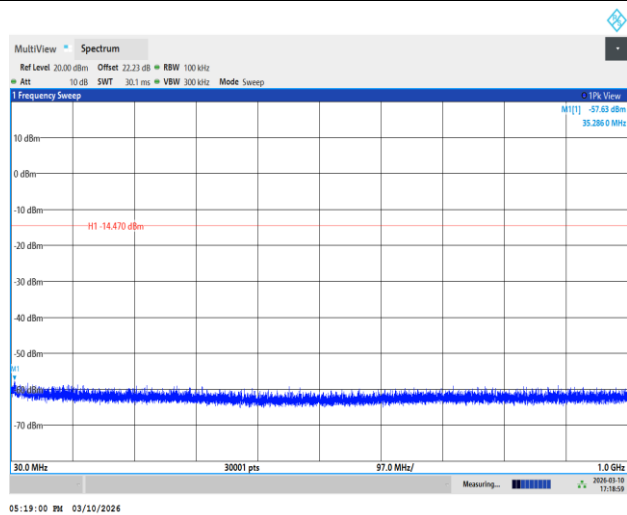


Channel 18

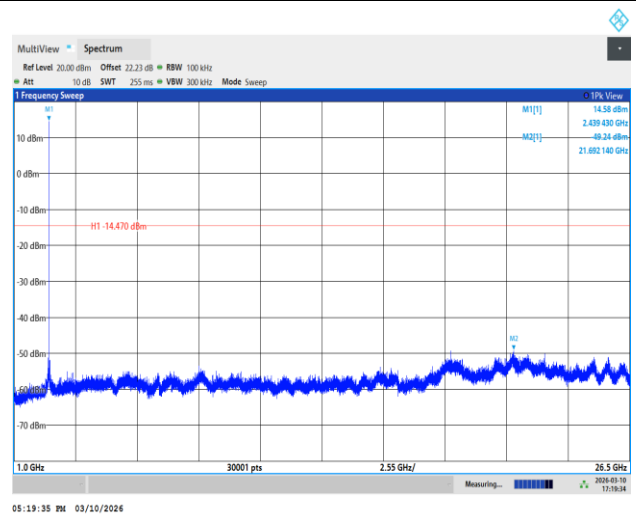
100kHz PSD reference Level Plot



Spurious Emission 30MHz~1GHz Plot



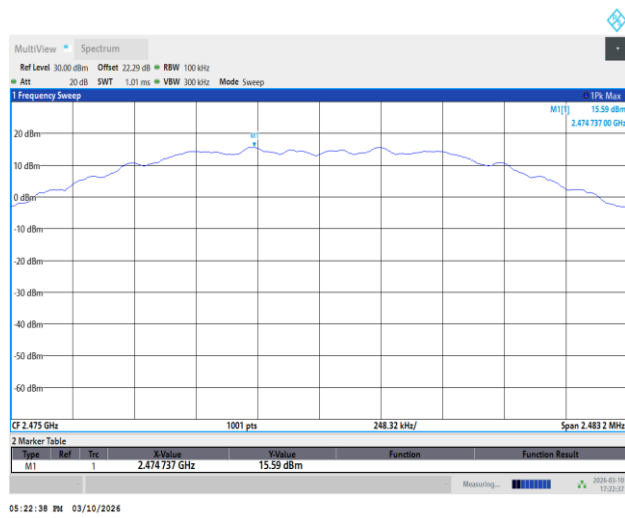
Spurious Emission 1GHz~26.5GHz Plot



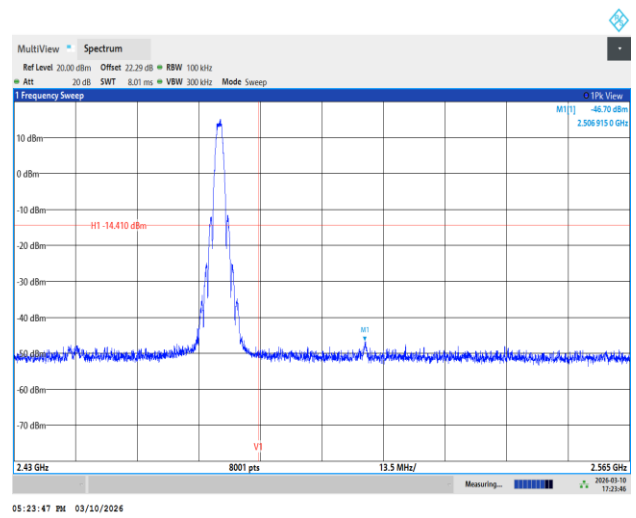


Channel 25

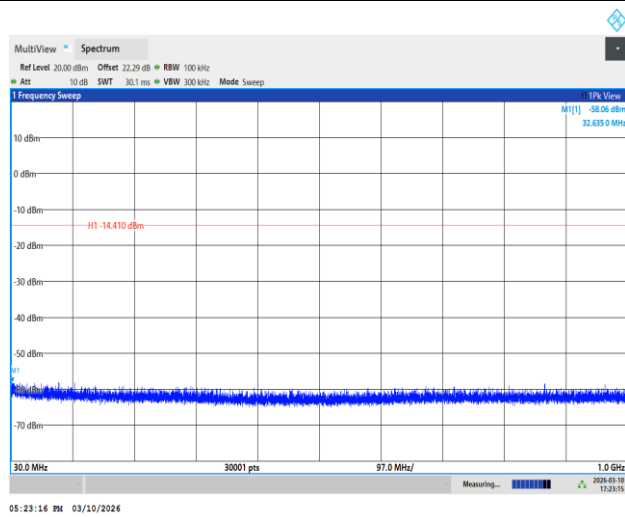
100kHz PSD reference Level Plot



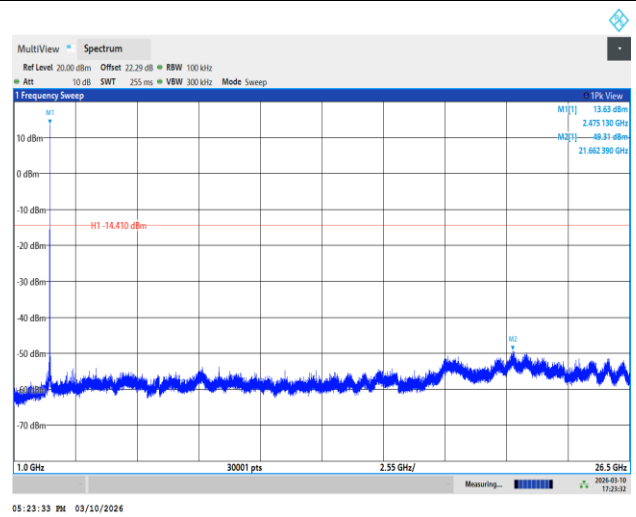
Plot on Channel 25



Spurious Emission 30MHz~1GHz Plot



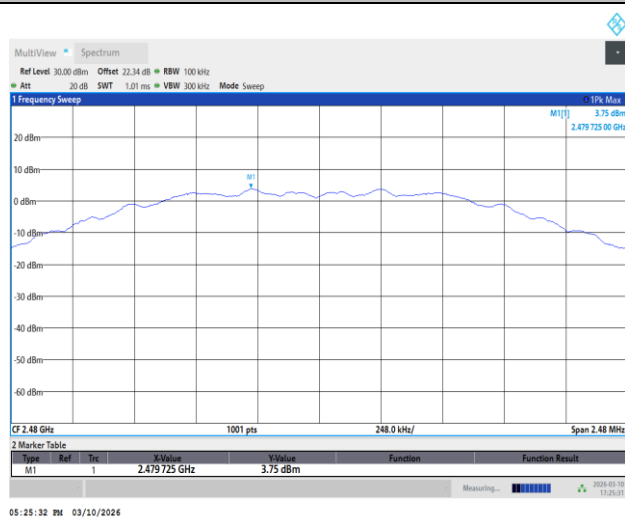
Spurious Emission 1GHz~26.5GHz Plot



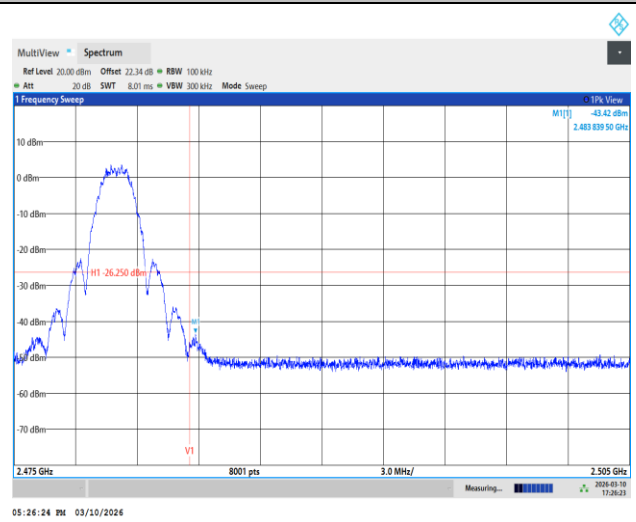


Channel 26

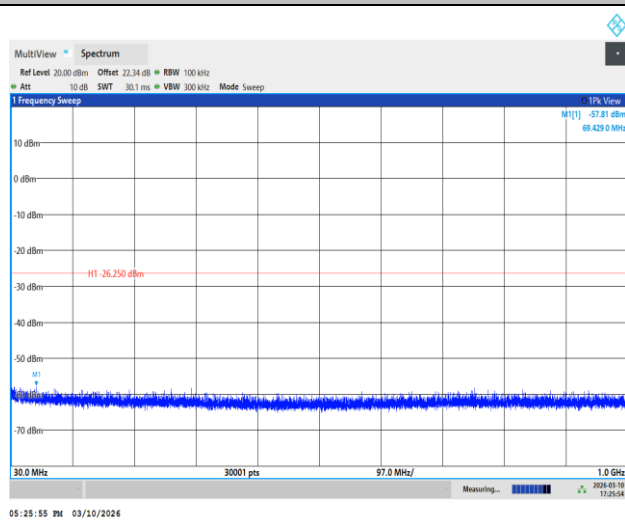
100kHz PSD reference Level Plot



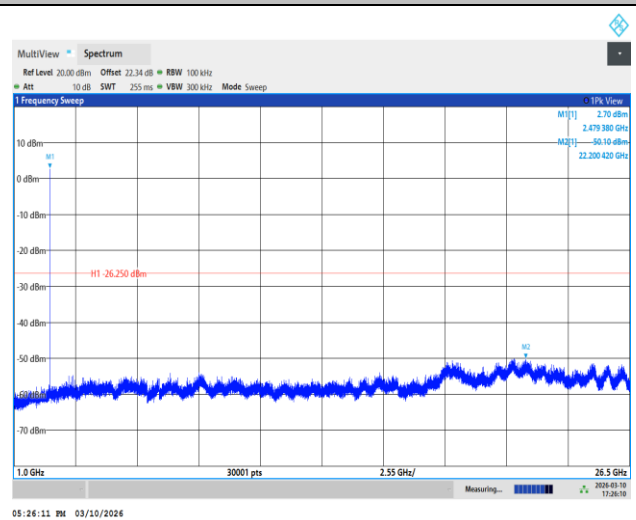
Plot on Channel 26



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot





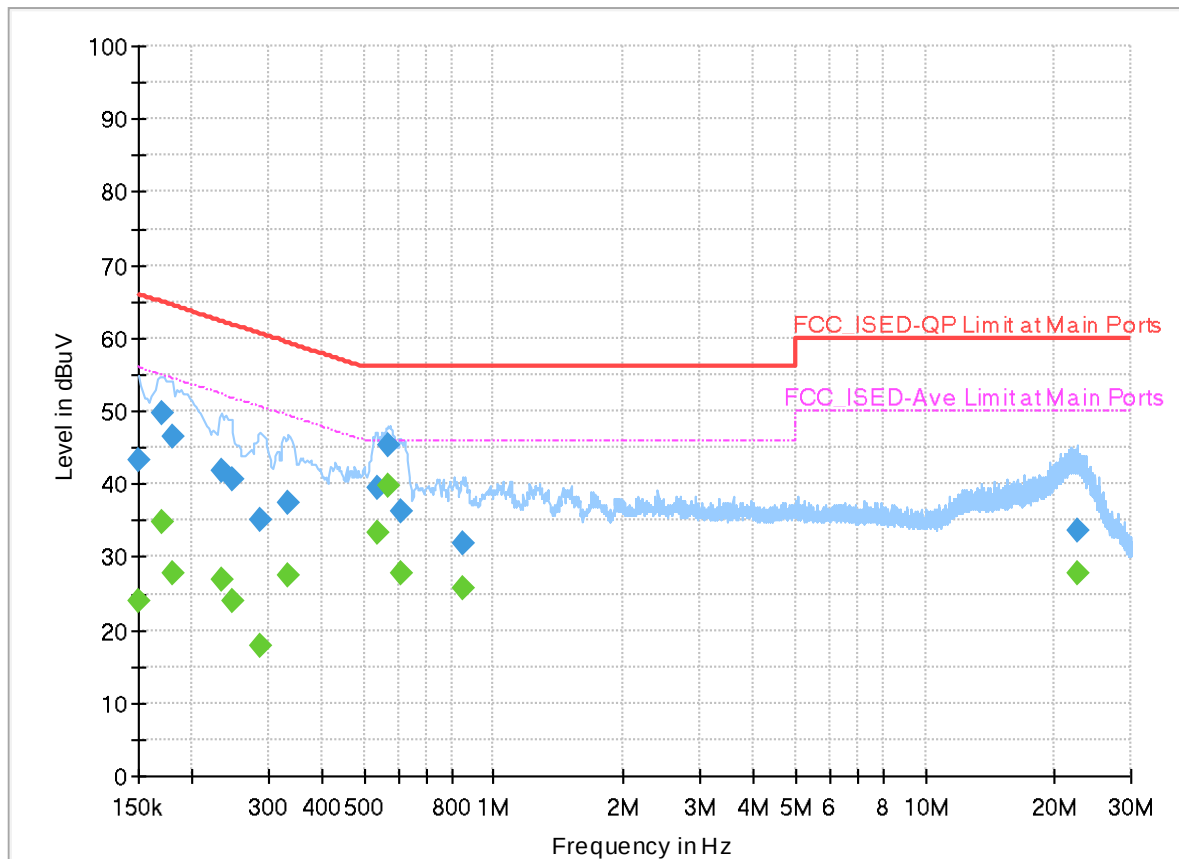
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Brian Chen	Temperature :	23~26°C
		Relative Humidity :	45~55%

EUT Information

Report NO : 621004
 Test Mode : Mode 2
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



Final Result

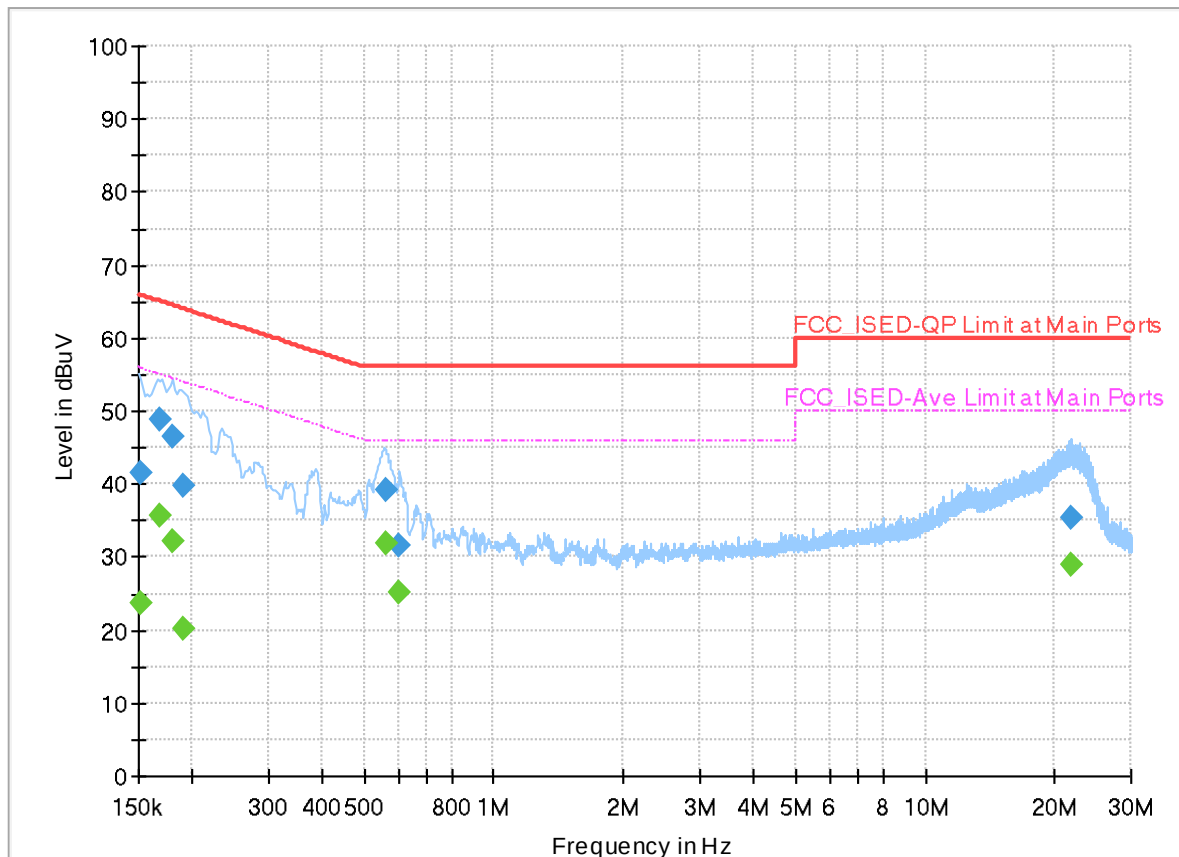
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	24.00	56.00	32.00	L1	ON	20.2
0.150000	43.39	---	66.00	22.61	L1	ON	20.2
0.170250	---	34.87	54.95	20.08	L1	ON	20.1
0.170250	49.72	---	64.95	15.23	L1	ON	20.1
0.179250	---	27.81	54.52	26.71	L1	ON	20.1
0.179250	46.48	---	64.52	18.04	L1	ON	20.1
0.233250	---	27.03	52.33	25.30	L1	ON	20.1
0.233250	41.71	---	62.33	20.62	L1	ON	20.1
0.246750	---	23.95	51.87	27.92	L1	ON	20.1
0.246750	40.60	---	61.87	21.27	L1	ON	20.1
0.287250	---	17.80	50.60	32.80	L1	ON	20.0
0.287250	35.06	---	60.60	25.54	L1	ON	20.0
0.334500	---	27.43	49.34	21.91	L1	ON	20.0
0.334500	37.33	---	59.34	22.01	L1	ON	20.0
0.534750	---	33.45	46.00	12.55	L1	ON	20.0
0.534750	39.41	---	56.00	16.59	L1	ON	20.0
0.570750	---	39.77	46.00	6.23	L1	ON	20.0
0.570750	45.43	---	56.00	10.57	L1	ON	20.0
0.606750	---	27.66	46.00	18.34	L1	ON	20.0

0.606750	36.19	---	56.00	19.81	L1	ON	20.0
0.847500	---	25.75	46.00	20.25	L1	ON	20.0
0.847500	31.85	---	56.00	24.15	L1	ON	20.0
22.661250	---	27.83	50.00	22.17	L1	ON	20.9
22.661250	33.53	---	60.00	26.47	L1	ON	20.9

EUT Information

Report NO : 621004
Test Mode : Mode 2
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	23.81	55.88	32.07	N	ON	20.1
0.152250	41.57	---	65.88	24.31	N	ON	20.1
0.168000	---	35.54	55.06	19.52	N	ON	20.1
0.168000	48.79	---	65.06	16.27	N	ON	20.1
0.179250	---	32.05	54.52	22.47	N	ON	20.1
0.179250	46.58	---	64.52	17.94	N	ON	20.1
0.190500	---	20.31	54.02	33.71	N	ON	20.1
0.190500	39.65	---	64.02	24.37	N	ON	20.1
0.559500	---	31.73	46.00	14.27	N	ON	20.0
0.559500	39.23	---	56.00	16.77	N	ON	20.0
0.604500	---	25.09	46.00	20.91	N	ON	20.0
0.604500	31.57	---	56.00	24.43	N	ON	20.0
21.846750	---	28.82	50.00	21.18	N	ON	20.9
21.846750	35.29	---	60.00	24.71	N	ON	20.9



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Jerry Lan 、 Gary Guo 、 Steven Wu	Temperature :	22.8~25.2°C
		Relative Humidity :	48.2~54.3%

Note symbol

-L	Low channel location
-R	High channel location



C1.Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 9	2400-2483.5	3	IEEE 802.15.4	11	2405	-	-	-
Mode 10	2400-2483.5	3	IEEE 802.15.4	18	2440	-	-	-
Mode 11	2400-2483.5	3	IEEE 802.15.4	25	2475	-	-	-
Mode 12	2400-2483.5	3	IEEE 802.15.4	26	2480	-	-	-
Mode 13	2400-2483.5	3	IEEE 802.15.4	26	2480	-	-	LF
Mode 14	2400-2483.5	3	IEEE 802.15.4	26	2480	-	-	SHF

C2.Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
9	IEEE 802.15.4	11	2373.75	46.96	54.00	-7.04	V	Avg.	Pass	-	Band Edge
	IEEE 802.15.4	11	12025.00	48.61	54.00	-5.39	V	Avg.	Pass	-	Harmonic
10	IEEE 802.15.4	18	-	-	-	-	-	-	-	-	Band Edge
	IEEE 802.15.4	18	12200.00	50.41	54.00	-3.59	V	Avg.	Pass	-	Harmonic
11	IEEE 802.15.4	25	2483.60	46.01	54.00	-7.99	V	Avg.	Pass	-	Band Edge
	IEEE 802.15.4	25	12375.00	50.53	54.00	-3.47	V	Avg.	Pass	-	Harmonic
12	IEEE 802.15.4	26	2483.52	52.57	54.00	-1.43	V	Avg.	Pass	-	Band Edge
	IEEE 802.15.4	26	7440.00	44.20	74.00	-29.80	V	Peak	Pass	-	Harmonic
13	LF	26	84.32	32.09	40.00	-7.91	V	Peak	Pass	-	LF
14	SHF	26	25400.00	40.36	74.00	-33.64	H	Peak	Pass	-	SHF



Mode	9																																																																																									
	Band Edge																																																																																									
	2400-2483.5_IIEEE 802.15.4_CH11_2405MHz																																																																																									
ANT	3																																																																																									
Pol.	Horizontal						Fundamental																																																																																			
Peak	Level (dBuV/m) Date: 2026-03-07 Site : 03CH16-HY Condition: PEAK_BE_74 3m 91200-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><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></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>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2389.00</td><td>57.00</td><td>74.00</td><td>-17.00</td><td>47.49</td><td>27.50</td><td>8.19</td><td>36.10</td><td>9.92</td><td>120</td><td>54</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	cm	deg		1	2389.00	57.00	74.00	-17.00	47.49	27.50	8.19	36.10	9.92	120	54	Peak	Level (dBuV/m) Date: 2026-03-07 Site : 03CH16-HY Condition: PEAK_74 3m 91200-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><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></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>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2485.00</td><td>113.90</td><td>-----</td><td>-----</td><td>104.27</td><td>27.60</td><td>8.21</td><td>36.10</td><td>9.92</td><td>120</td><td>54</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	cm	deg		1	2485.00	113.90	-----	-----	104.27	27.60	8.21	36.10	9.92	120	54	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	cm	deg																																																																															
1	2389.00	57.00	74.00	-17.00	47.49	27.50	8.19	36.10	9.92	120	54	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	cm	deg																																																																															
1	2485.00	113.90	-----	-----	104.27	27.60	8.21	36.10	9.92	120	54	Peak																																																																														
Avg	Level (dBuV/m) Date: 2026-03-07 Site : 03CH16-HY Condition: AVG_BE_54 3m 91200-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><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></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>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2373.84</td><td>45.84</td><td>54.00</td><td>-8.16</td><td>36.56</td><td>27.30</td><td>8.16</td><td>36.10</td><td>9.92</td><td>120</td><td>54</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	2373.84	45.84	54.00	-8.16	36.56	27.30	8.16	36.10	9.92	120	54	Average	Level (dBuV/m) Date: 2026-03-07 Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><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></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>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2485.00</td><td>187.78</td><td>-----</td><td>-----</td><td>98.15</td><td>27.60</td><td>8.21</td><td>36.10</td><td>9.92</td><td>120</td><td>54</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	2485.00	187.78	-----	-----	98.15	27.60	8.21	36.10	9.92	120	54	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	cm	deg																																																																															
1	2373.84	45.84	54.00	-8.16	36.56	27.30	8.16	36.10	9.92	120	54	Average																																																																														
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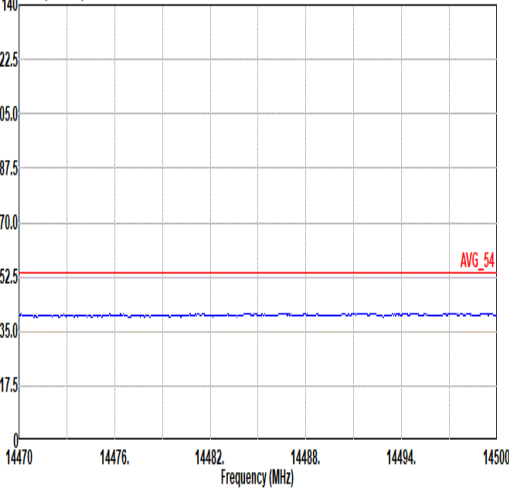
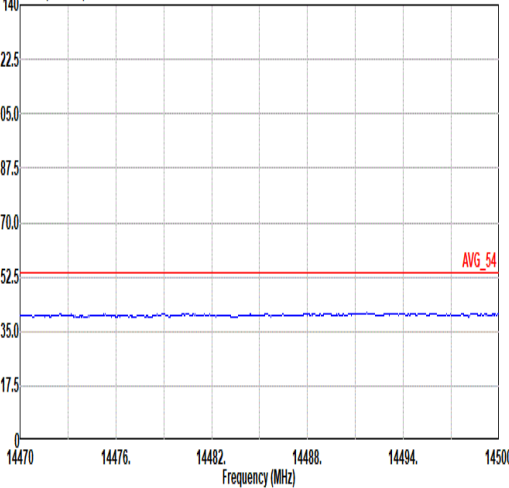
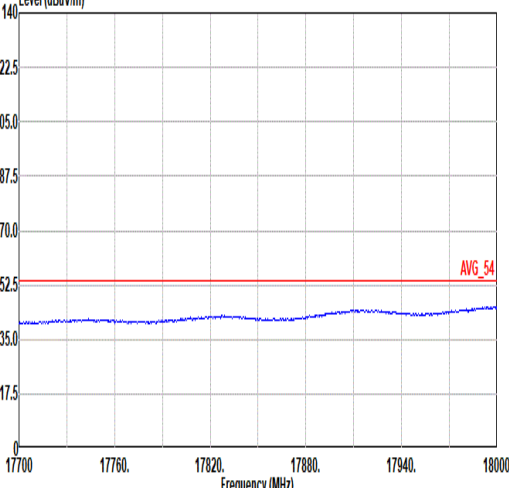
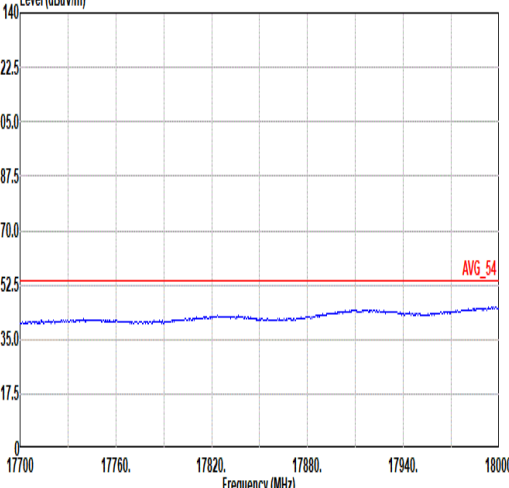


Mode	9																																																																																																			
	Band Edge																																																																																																			
	2400-2483.5_IIEEE 802.15.4_CH11_2405MHz																																																																																																			
ANT	3																																																																																																			
Pol.	Vertical						Fundamental																																																																																													
Peak	Level (dBuV/m) Date: 2026-03-07 Frequency (MHz) Site : 03CH16-HY Condition: PEAK_BE_74 3m 91200-1522_250327 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></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>Remark</th></tr><tr><th></th><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</td><td>2373.46</td><td>56.94</td><td>74.00</td><td>-17.06</td><td>47.66</td><td>27.30</td><td>8.16</td><td>36.10</td><td>9.92</td><td>100</td><td>131</td><td>Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dB/m	dB	dB	dB	cm	deg	1	2373.46	56.94	74.00	-17.06	47.66	27.30	8.16	36.10	9.92	100	131	Peak	Level (dBuV/m) Date: 2026-03-07 Frequency (MHz) Site : 03CH16-HY Condition: PEAK_74 3m 91200-1522_250327 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></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>Remark</th></tr><tr><th></th><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</td><td>2405.00</td><td>113.97</td><td>-----</td><td>-----</td><td>104.34</td><td>27.60</td><td>8.21</td><td>36.10</td><td>9.92</td><td>100</td><td>131</td><td>Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dB/m	dB	dB	dB	cm	deg	1	2405.00	113.97	-----	-----	104.34	27.60	8.21	36.10	9.92	100	131	Peak
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1	2405.00	113.97	-----	-----	104.34	27.60	8.21	36.10	9.92	100	131	Peak																																																																																								
Avg	Level (dBuV/m) Date: 2026-03-07 Frequency (MHz) Site : 03CH16-HY Condition: AVG_BE_54 3m 91200-1522_250327 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></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>Remark</th></tr><tr><th></th><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</td><td>2373.75</td><td>46.96</td><td>54.00</td><td>-7.04</td><td>37.68</td><td>27.30</td><td>8.16</td><td>36.10</td><td>9.92</td><td>100</td><td>131</td><td>Average</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dB/m	dB	dB	dB	cm	deg	1	2373.75	46.96	54.00	-7.04	37.68	27.30	8.16	36.10	9.92	100	131	Average	Level (dBuV/m) Date: 2026-03-07 Frequency (MHz) Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_250327 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></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>Remark</th></tr><tr><th></th><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</td><td>2405.00</td><td>107.73</td><td>-----</td><td>-----</td><td>98.10</td><td>27.60</td><td>8.21</td><td>36.10</td><td>9.92</td><td>100</td><td>131</td><td>Average</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dB/m	dB	dB	dB	cm	deg	1	2405.00	107.73	-----	-----	98.10	27.60	8.21	36.10	9.92	100	131	Average
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Mode	9																																																																																																																																																																							
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Pol.	Horizontal							Vertical																																																																																																																																																																
Peak Avg	Level (dBuV/m) Date: 2026-03-06 Site : 03CH16-HY Condition: PEAK_74 3m 91200-1522_250327 HORIZONTAL <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</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></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</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</td><td>4810.00</td><td>39.66</td><td>74.00</td><td>-34.34</td><td>61.75</td><td>32.54</td><td>11.32</td><td>66.34</td><td>0.39</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>7215.00</td><td>44.31</td><td>74.00</td><td>-29.69</td><td>59.25</td><td>37.06</td><td>13.51</td><td>65.72</td><td>0.21</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>12025.00</td><td>52.09</td><td>74.00</td><td>-21.91</td><td>61.49</td><td>39.00</td><td>17.41</td><td>66.26</td><td>0.45</td><td>398</td><td>79</td><td>Peak</td><td>Peak</td></tr><tr><td>4</td><td>12025.00</td><td>43.87</td><td>54.00</td><td>-10.13</td><td>53.27</td><td>39.00</td><td>17.41</td><td>66.26</td><td>0.45</td><td>398</td><td>79</td><td>Average</td><td>Average</td></tr></table>								Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	4810.00	39.66	74.00	-34.34	61.75	32.54	11.32	66.34	0.39	--	--	--	Peak	2	7215.00	44.31	74.00	-29.69	59.25	37.06	13.51	65.72	0.21	--	--	--	Peak	3	12025.00	52.09	74.00	-21.91	61.49	39.00	17.41	66.26	0.45	398	79	Peak	Peak	4	12025.00	43.87	54.00	-10.13	53.27	39.00	17.41	66.26	0.45	398	79	Average	Average	Level (dBuV/m) Date: 2026-03-06 Site : 03CH16-HY Condition: PEAK_74 3m 91200-1522_250327 VERTICAL <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</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></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</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</td><td>4810.00</td><td>38.63</td><td>74.00</td><td>-35.37</td><td>60.72</td><td>32.54</td><td>11.32</td><td>66.34</td><td>0.39</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>12025.00</td><td>55.48</td><td>74.00</td><td>-18.52</td><td>64.88</td><td>39.00</td><td>17.41</td><td>66.26</td><td>0.45</td><td>400</td><td>337</td><td>Peak</td><td>Peak</td></tr><tr><td>3</td><td>12025.00</td><td>48.61</td><td>54.00</td><td>-5.39</td><td>58.01</td><td>39.00</td><td>17.41</td><td>66.26</td><td>0.45</td><td>400</td><td>337</td><td>Average</td><td>Average</td></tr></table>								Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	4810.00	38.63	74.00	-35.37	60.72	32.54	11.32	66.34	0.39	--	--	--	Peak	2	12025.00	55.48	74.00	-18.52	64.88	39.00	17.41	66.26	0.45	400	337	Peak	Peak	3	12025.00	48.61	54.00	-5.39	58.01	39.00	17.41	66.26	0.45	400	337	Average	Average
		Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																										
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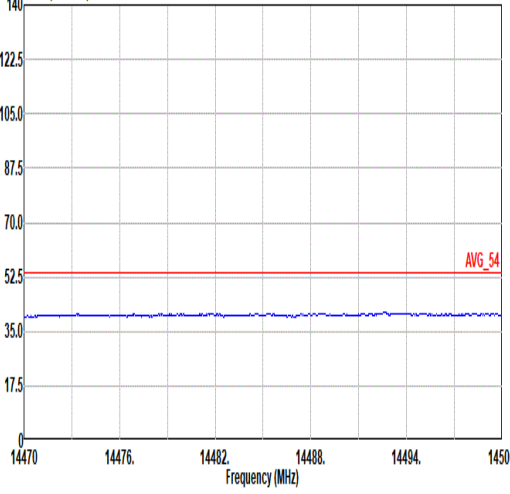
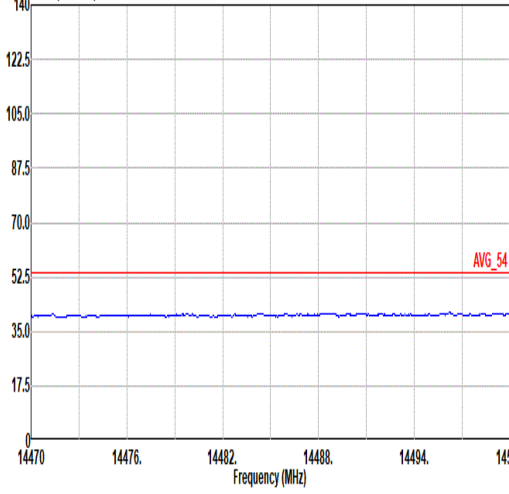
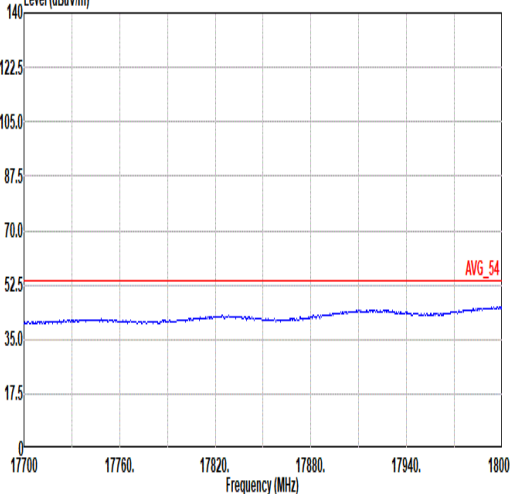
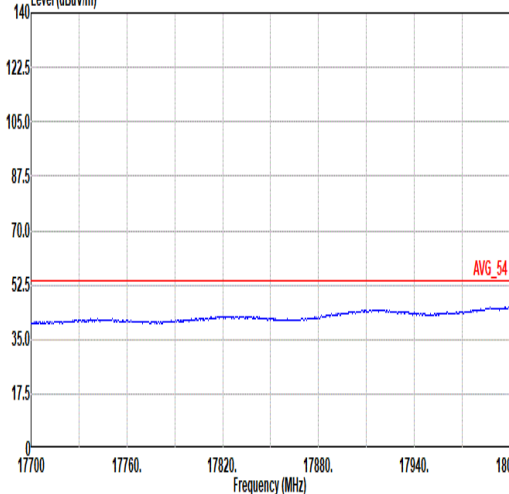


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	2400-2483.5_IIEEE 802.15.4_CH11_2405MHz	
ANT	3	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	Level (dBuV/m) Date: 2026-03-06  Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_250327 HORIZONTAL	Level (dBuV/m) Date: 2026-03-06  Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_250327 VERTICAL
	Level (dBuV/m) Date: 2026-03-06  Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_250327 HORIZONTAL	Level (dBuV/m) Date: 2026-03-06  Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_250327 VERTICAL



Mode	10																																																																																																																																																																																													
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Mode	10	
	Harmonic	
	2400-2483.5_IIEEE 802.15.4_CH18_2440MHz	
ANT	3	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	Level (dBuV/m) Date: 2026-03-06  Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_250327 HORIZONTAL	Level (dBuV/m) Date: 2026-03-06  Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_250327 VERTICAL
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Avg	Level (dBuV/m) Date: 2026-03-07 AVG_BE_54 Frequency (MHz) Site : 03CH16-HY Condition: AVG_BE_54 3m 91200-1522_250327 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 Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</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>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 2483.60</td><td>46.01</td><td>54.00</td><td>-7.99</td><td>35.95</td><td>27.94</td><td>8.31</td><td>36.11</td><td>9.92</td><td>100 125 Average</td></tr></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dB/m	dB	dB	dB	cm	deg	1 2483.60	46.01	54.00	-7.99	35.95	27.94	8.31	36.11	9.92	100 125 Average	Level (dBuV/m) Date: 2026-03-07 AVG_54 Frequency (MHz) Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_250327 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 Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</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>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 2475.00</td><td>109.58</td><td>-----</td><td>-----</td><td>99.63</td><td>27.84</td><td>8.30</td><td>36.11</td><td>9.92</td><td>100 125 Average</td></tr></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dB/m	dB	dB	dB	cm	deg	1 2475.00	109.58	-----	-----	99.63	27.84	8.30	36.11	9.92	100 125 Average
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																
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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																											
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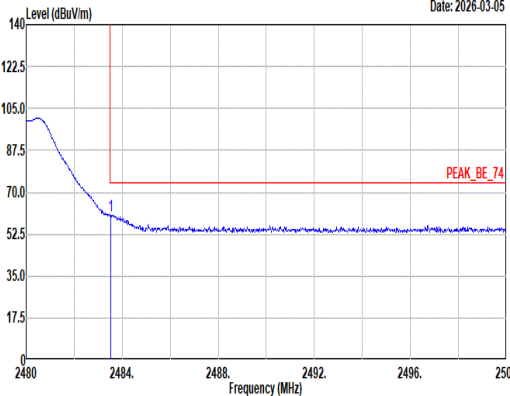
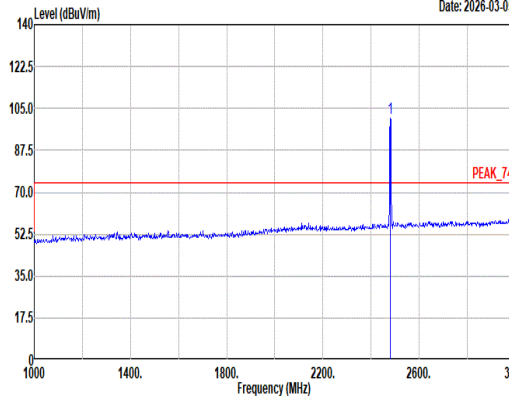
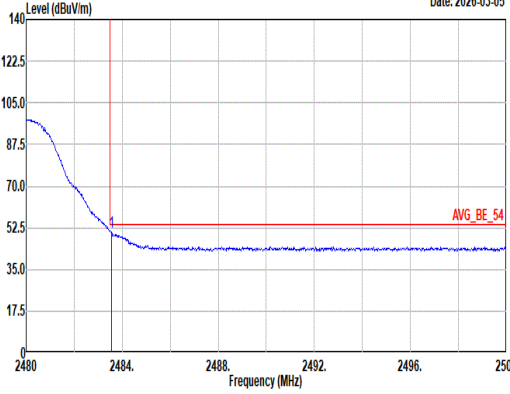
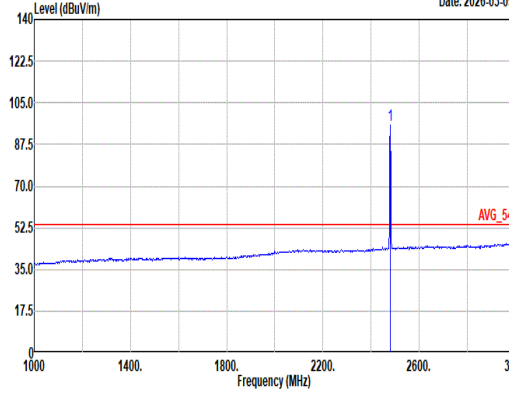


Mode	11	
	Harmonic	
	2400-2483.5_IIEEE 802.15.4_CH25_2475MHz	
ANT	3	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	Level (dBuV/m) Date: 2026-03-05 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_250327 HORIZONTAL	Level (dBuV/m) Date: 2026-03-05 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_250327 VERTICAL
	Level (dBuV/m) Date: 2026-03-05 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_250327 HORIZONTAL	Level (dBuV/m) Date: 2026-03-05 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_250327 VERTICAL

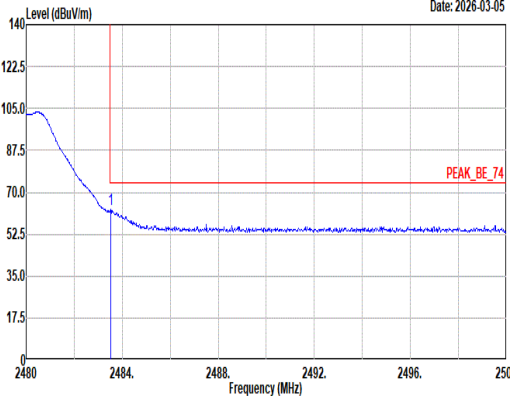
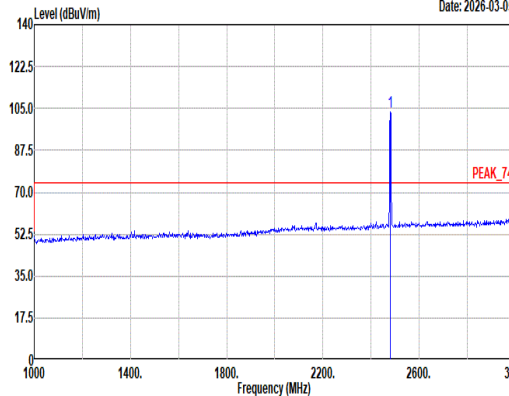
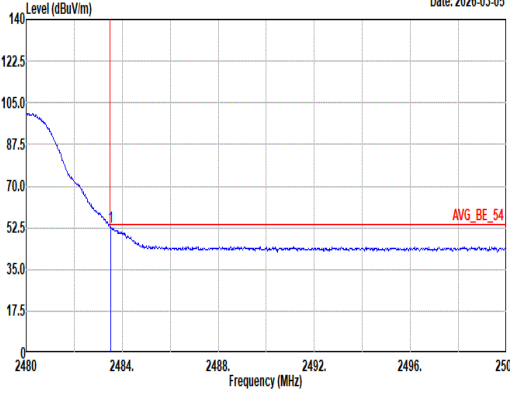
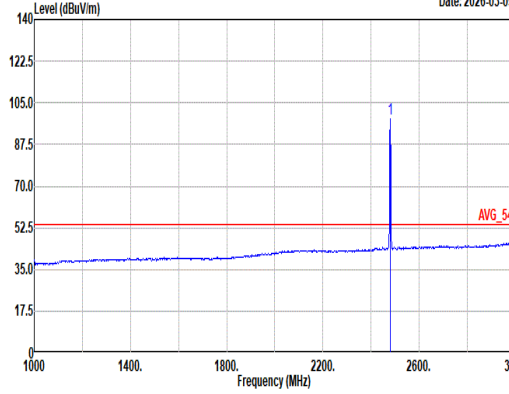


FCC RADIO TEST REPORT

Report No. : FR621004A

Mode	12																																																																																									
	Band Edge																																																																																									
	2400-2483.5_IIEEE 802.15.4_CH26_2480MHz																																																																																									
ANT	3																																																																																									
Pol.	Horizontal						Fundamental																																																																																			
Peak	 Date: 2026-03-05 Site : 03CH16-HY Condition: PEAK_BE_74 3m 91200-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><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></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>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2483.52</td><td>60.36</td><td>74.00</td><td>-13.64</td><td>50.30</td><td>27.94</td><td>8.31</td><td>36.11</td><td>9.92</td><td>100</td><td>49</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	cm	deg		1	2483.52	60.36	74.00	-13.64	50.30	27.94	8.31	36.11	9.92	100	49	Peak	 Date: 2026-03-05 Site : 03CH16-HY Condition: PEAK_74 3m 91200-1522_250327 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><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></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>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2480.00</td><td>101.04</td><td>-----</td><td>-----</td><td>91.03</td><td>27.90</td><td>8.30</td><td>36.11</td><td>9.92</td><td>100</td><td>49</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	cm	deg		1	2480.00	101.04	-----	-----	91.03	27.90	8.30	36.11	9.92	100	49	Peak
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		Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark																																																																													
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	Site : 03CH16-HY Condition: PEAK_BE_74 3m 91200-1522_250327 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto						Site : 03CH16-HY Condition: PEAK_74 3m 91200-1522_250327 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto																																																																																																	
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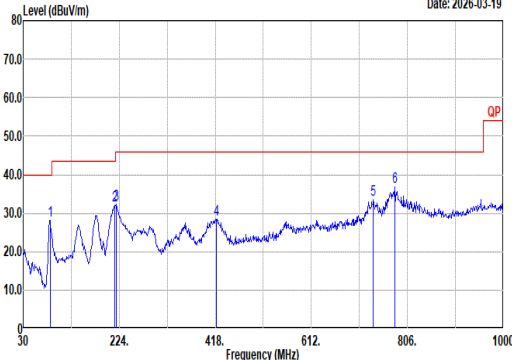
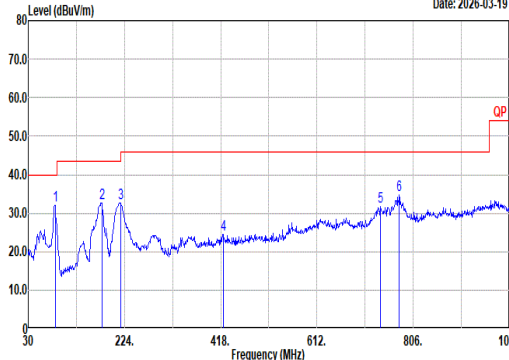


Mode	12																																																																																																																								
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Mode	12	
	Harmonic	
	2400-2483.5_IIEEE 802.15.4_CH26_2480MHz	
ANT	3	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	Level (dBuV/m) Date: 2026-03-05 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_250327 HORIZONTAL	Level (dBuV/m) Date: 2026-03-05 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_250327 VERTICAL
	Level (dBuV/m) Date: 2026-03-05 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_250327 HORIZONTAL	Level (dBuV/m) Date: 2026-03-05 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_250327 VERTICAL



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	Site : 03CH16-HY Condition: QP 3m CBL6111D&00802N1D01N-06_47020 & 06_251004 HORIZONTAL					Site : 03CH16-HY Condition: QP 3m CBL6111D&00802N1D01N-06_47020 & 06_251004 VERTICAL																																																																																																																																																																																							
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MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg																																																																																																																																																																																				
1	84.32	32.09	40.00	-7.91	48.93	13.69	1.63	32.21	0.05 -- -- Peak																																																																																																																																																																																				
2	178.41	32.71	43.50	-10.79	47.81	14.76	2.30	32.18	0.02 -- -- Peak																																																																																																																																																																																				
3	216.24	32.66	46.00	-13.34	47.70	14.59	2.48	32.18	0.07 -- -- Peak																																																																																																																																																																																				
4	422.85	24.57	46.00	-21.43	31.59	21.73	3.42	32.24	0.07 -- -- Peak																																																																																																																																																																																				
5	740.04	31.85	46.00	-14.15	32.13	27.40	4.52	32.34	0.14 -- -- Peak																																																																																																																																																																																				
6	777.87	34.76	46.00	-11.24	34.72	27.55	4.62	32.26	0.13 -- -- Peak																																																																																																																																																																																				

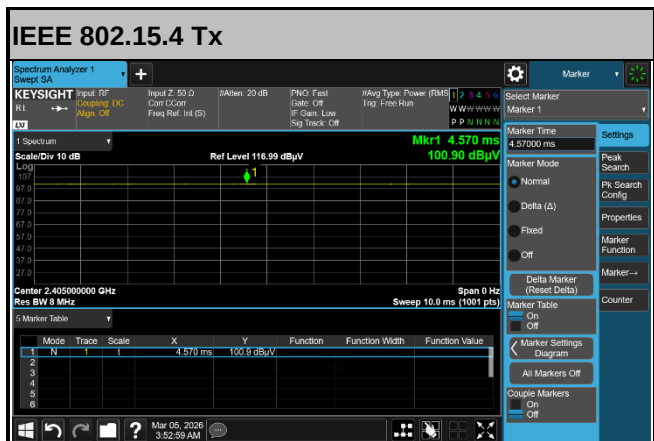


Mode	14																																																																																																
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ANT	3																																																																																																
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Peak	Level (dBuV/m) Date: 2026-03-19 PEAK_74 AVG_54 1 Site : 03CH16-HY Condition: PEAK_74 1m SHF_1224_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>25400.00</td><td>40.36</td><td>74.00</td><td>-33.64</td><td>57.51</td><td>39.50</td><td>6.27</td><td>53.38</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	25400.00	40.36	74.00	-33.64	57.51	39.50	6.27	53.38	-9.54	--	Peak	Level (dBuV/m) Date: 2026-03-19 PEAK_74 AVG_54 1 Site : 03CH16-HY Condition: PEAK_74 1m SHF_1224_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>24048.00</td><td>40.27</td><td>74.00</td><td>-33.73</td><td>57.11</td><td>39.70</td><td>6.30</td><td>53.30</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	24048.00	40.27	74.00	-33.73	57.11	39.70	6.30	53.30	-9.54	--	Peak
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Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	Duty Factor(dB)
3	IEEE 802.15.4 Tx	100.00	0.00



—THE END—