FCC RADIO TEST REPORT

FCC ID	:	**SWX-USLGGH**
Equipment	:	**SuperLink Gateway HA**
Brand Name	:	**UBIQUITI**
Model Name	:	**USL-G2-Gateway-HA**
Applicant	:	**Ubiquiti Inc. 685 Third Avenue, New York, New York 10017, USA**
Manufacturer	:	**Ubiquiti Inc. 685 Third Avenue, New York, New York 10017, USA**
Standard	:	**FCC Part 15 Subpart C §15.247**

The product was received on Sep. 16, 2025 and testing was performed from Sep. 18, 2025 to Oct. 09, 2025. We, Sporton International Inc. EMC & Wireless Communications 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR581203A	01	Initial issue of report	Jul. 01, 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)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Spurious Emission	Pass	-
3.6	15.207	AC Conducted Emission	Pass	-
3.7	15.203 15.247(b)	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/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Danny Lee

Report Producer: Yuri Huang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs LTE, Bluetooth LE, LoRa, and Thread. **Antenna Type** LoRa: Monopole Antenna

Antenna information		
915 MHz ~ 928 MHz	Peak Gain (dBi)	1.0

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

Specification of Accessory		
Battery	**Brand Name**	Mic-power
	Model Name	MT24J01

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	CO05-HY, 03CH07-HY

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

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 (TAF Code: 3786)
Remark: The Conducted test item subcontracted to Sporton International Inc. Wensan Laboratory.	

FCC designation No.: TW1190 and TW3786

1.4 Applicable Standards

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

- FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- 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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
915 – 928 MHz	00	915.6	11	922.2
	01	916.2	12	922.8
	02	916.8	13	922.4
	03	917.4	14	924.0
	04	918.0	15	924.6
	05	918.6	16	925.2
	06	919.2	17	925.8
	07	919.8	18	926.4
	08	920.4	19	927.0
	09	921.0	20	927.6
	10	921.6		

2.2 Test Mode

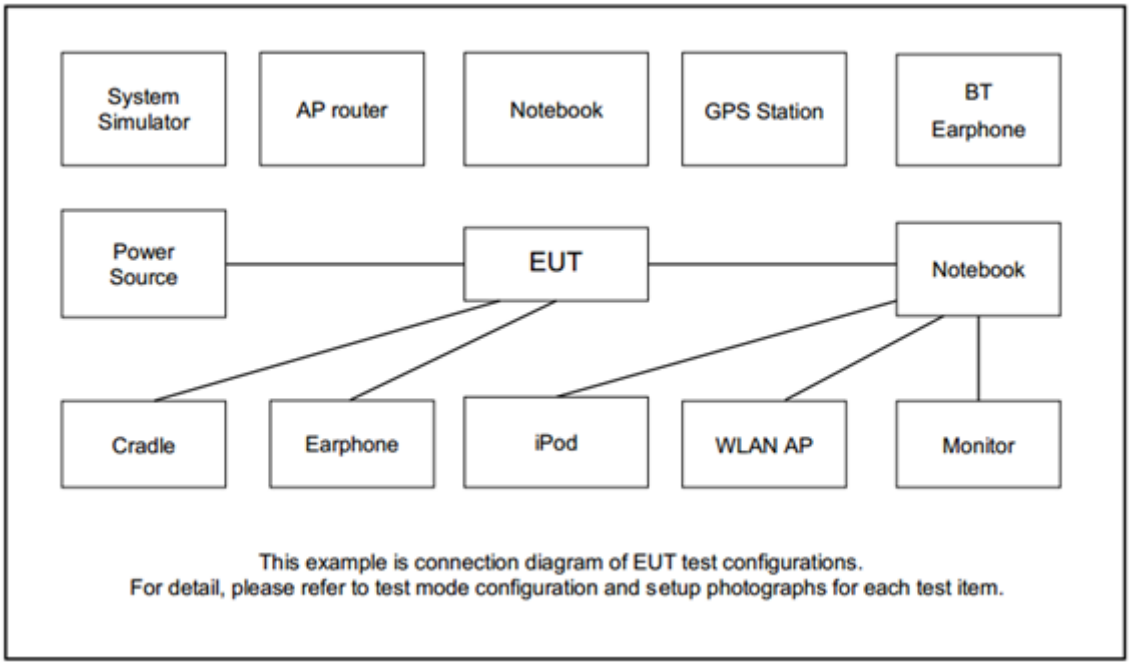
a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental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

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

Summary table of Test Cases		
Test Item	**Feature**	**LoRa / GFSK**
Conducted Test Cases	**LoRa 500 kHz DTS**	Mode 1: CH00_915.60 MHz Mode 2: CH10_921.60 MHz Mode 3: CH20_927.60 MHz
Radiated Test Cases	**LoRa 500 kHz DTS**	Mode 1: CH00_915.60 MHz Mode 2: CH10_921.60 MHz Mode 3: CH20_927.60 MHz
AC Conducted Emission	Mode 1: LoRA 500 kHz Tx + LAN Link + AC Adapter	

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.	AC Adapter	UBIQUITI	E005-1I050100VU	FCC DoC	N/A	Shielded, 1.5m
2.	Notebook	Dell	E3340	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “Tera Term v4.95” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example:
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Offset = RF cable loss + attenuator factor.
Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 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.

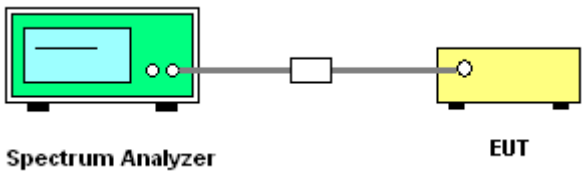
3.1.2 Measuring Instruments

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 ≥ 3 * RBW. In order to make an accurate measurement. The 6 dB 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) ≥ 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

Section 15.247(b)(3) For systems using digital modulation in the 902-928 MHz, the limit for peak output power is 1 watt.

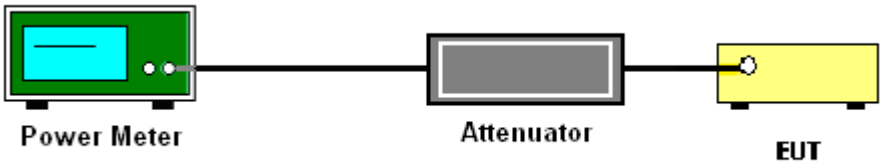
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.2 PKPM1
2. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
3. 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.
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 Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

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.

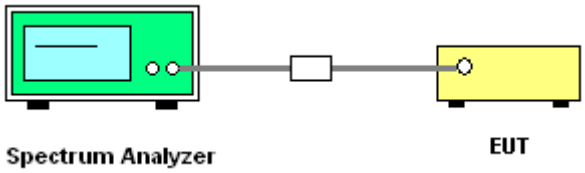
3.3.2 Measuring Instruments

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. (6dB 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.

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 Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

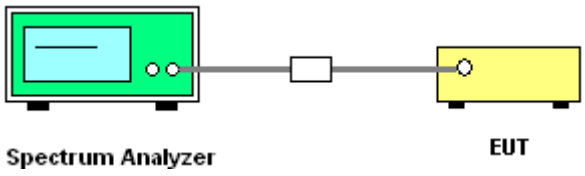
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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 per 15.247(d).
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 Spurious Emission Measurement

3.5.1 Limit of Radiated 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 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

3.5.2 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 ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3 MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

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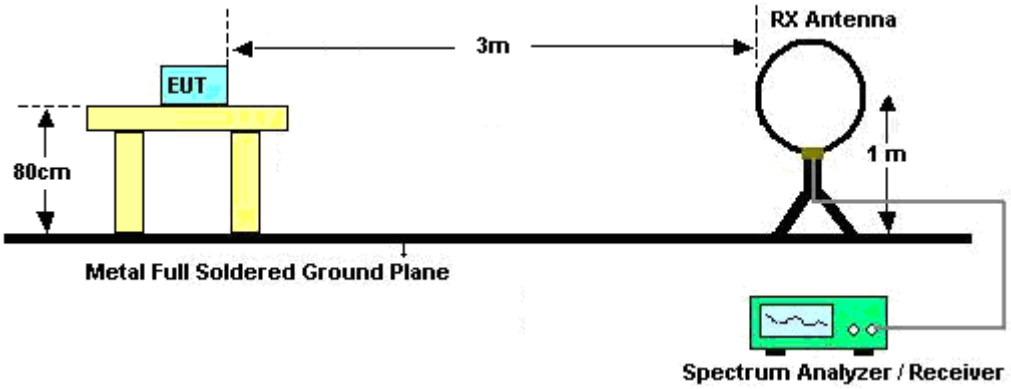
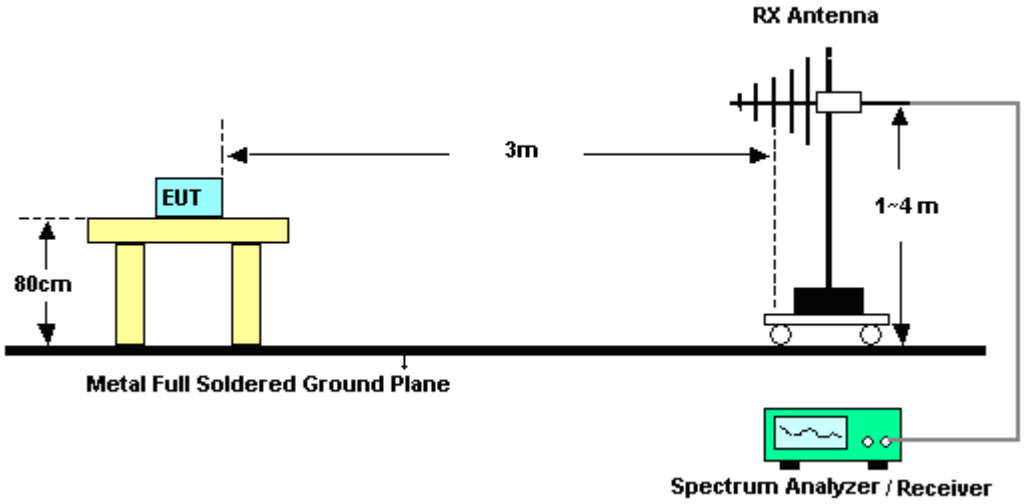
3.5.4 Test Setup

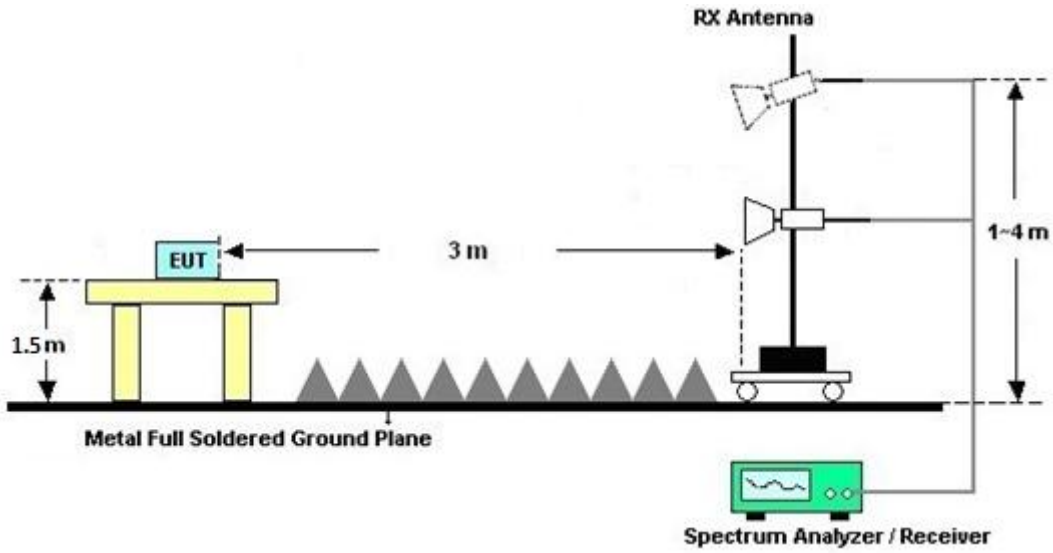
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated test above 1GHz


RX Antenna
EUT
3 m
1~4 m
1.5 m
Metal Full Soldered Ground Plane
Spectrum Analyzer / Receiver

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

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

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

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

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

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 (dBμV)	
	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.

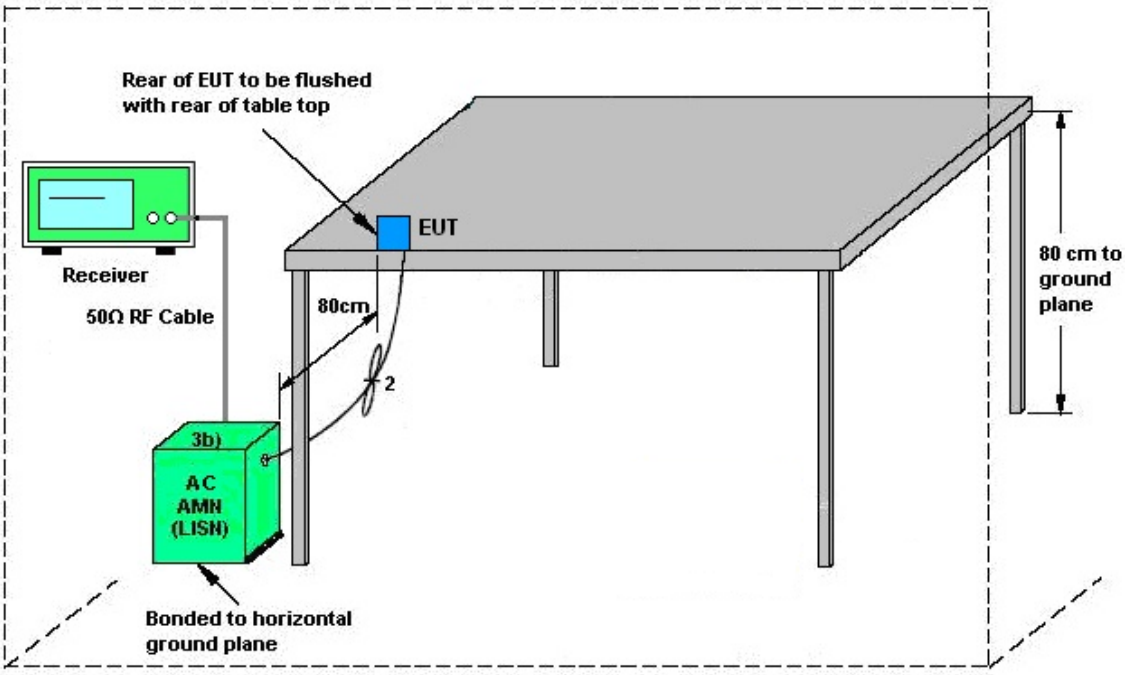
3.6.2 Measuring Instruments

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. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

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

Unique (non-standard) antenna connector.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 21, 2025	Oct. 02, 2025~ Oct. 03, 2025	Apr. 20, 2026	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00075962	1GHz ~ 18GHz	Nov. 28, 2024	Oct. 02, 2025~ Oct. 03, 2025	Nov. 27, 2025	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 06, 2025	Oct. 02, 2025~ Oct. 03, 2025	Mar. 05, 2026	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 18, 2025	Oct. 02, 2025~ Oct. 03, 2025	Apr. 17, 2026	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Sep. 30, 2025	Oct. 02, 2025~ Oct. 03, 2025	Sep. 29, 2026	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 28, 2025	Oct. 02, 2025~ Oct. 03, 2025	Mar. 27, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 20, 2025	Oct. 02, 2025~ Oct. 03, 2025	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 20, 2025	Oct. 02, 2025~ Oct. 03, 2025	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 13, 2025	Oct. 02, 2025~ Oct. 03, 2025	Sep. 12, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 23, 2025	Oct. 02, 2025~ Oct. 03, 2025	Apr. 22, 2026	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Oct. 02, 2025~ Oct. 03, 2025	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Oct. 02, 2025~ Oct. 03, 2025	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Oct. 02, 2025~ Oct. 03, 2025	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Oct. 02, 2025~ Oct. 03, 2025	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Oct. 02, 2025~ Oct. 03, 2025	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Feb. 24, 2025	Oct. 02, 2025~ Oct. 03, 2025	Feb. 23, 2026	Radiation (03CH07-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Oct. 02, 2025	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	N/A	Dec. 10, 2024	Oct. 02, 2025	Dec. 09, 2025	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP210031	N/A	Jun. 26, 2025	Oct. 02, 2025	Jun. 25, 2026	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	N/A	Jul. 25, 2025	Oct. 02, 2025	Jul. 24, 2026	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Oct. 02, 2025	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 29, 2025	Oct. 02, 2025	Jul. 28, 2026	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	MQT24082501	N/A	Oct. 15, 2024	Oct. 02, 2025	Oct. 14, 2025	Conduction (CO05-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Sep. 18, 2025~ Oct. 09, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Sep. 18, 2025~ Oct. 09, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Jan. 14, 2025	Sep. 18, 2025~ Oct. 09, 2025	Jan. 13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instrument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Sep. 18, 2025~ Oct. 09, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_24051 3	N/A	Conducted Other Test Item	N/A	Sep. 18, 2025~ Oct. 09, 2025	N/A	Conducted (TH05-HY)

5 Measurement Uncertainty

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

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))	6.3 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.7 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.5 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Jay Chen	Temperature:	23~25	°C
Test Date:	2025/9/18~2025/10/9	Relative Humidity:	54~58	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
Lora 500kHz	SF5	1	00	915.6	0.487	0.544	0.50	Pass
Lora 500kHz	SF5	1	10	921.6	0.483	0.541	0.50	Pass
Lora 500kHz	SF5	1	20	927.6	0.478	0.548	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
Lora 500kHz	SF5	1	00	915.6	15.97	30.00	1.00	16.97	36.00	Pass
Lora 500kHz	SF5	1	10	921.6	16.23	30.00	1.00	17.23	36.00	Pass
Lora 500kHz	SF5	1	20	927.6	16.20	30.00	1.00	17.20	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

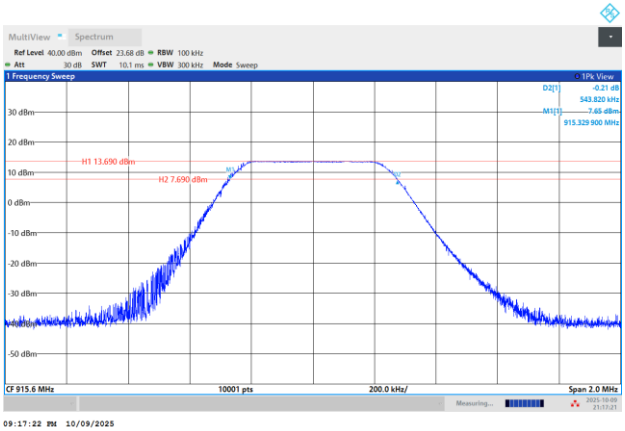
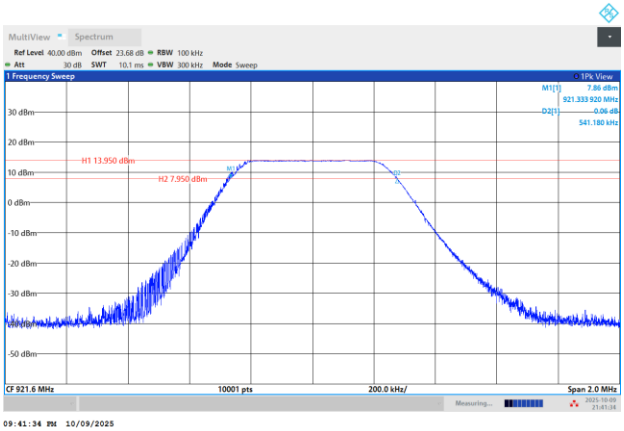
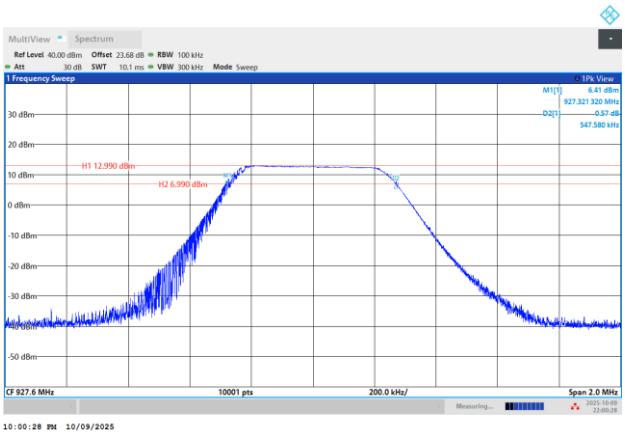
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
Lora 500kHz	SF5	1	00	915.6	13.50	30.00	1.00	14.50	36.00	Pass
Lora 500kHz	SF5	1	10	921.6	13.81	30.00	1.00	14.81	36.00	Pass
Lora 500kHz	SF5	1	20	927.6	13.66	30.00	1.00	14.66	36.00	Pass

TEST RESULTS DATA
Peak Power Density

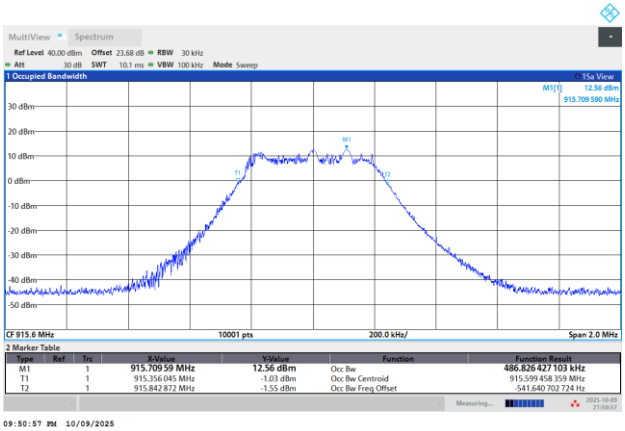
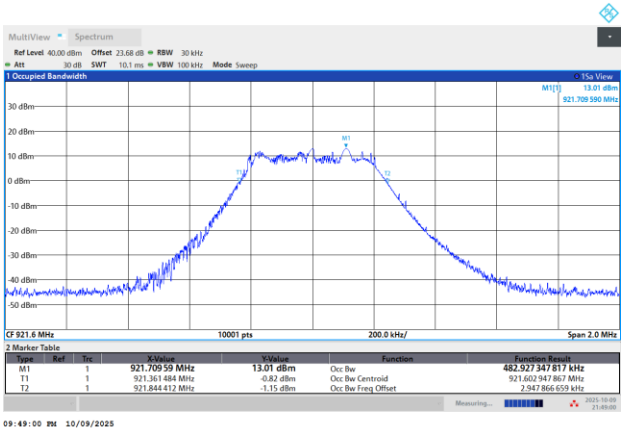
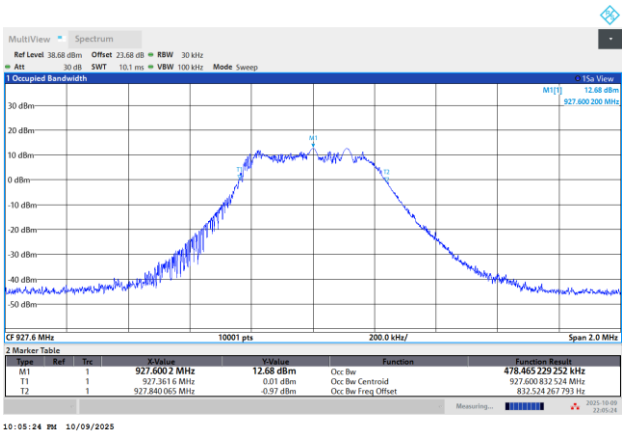
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
Lora 500kHz	SF5	1	00	915.6	13.72	7.60	1.00	8.00	Pass
Lora 500kHz	SF5	1	10	921.6	12.90	6.54	1.00	8.00	Pass
Lora 500kHz	SF5	1	20	927.6	14.07	7.89	1.00	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

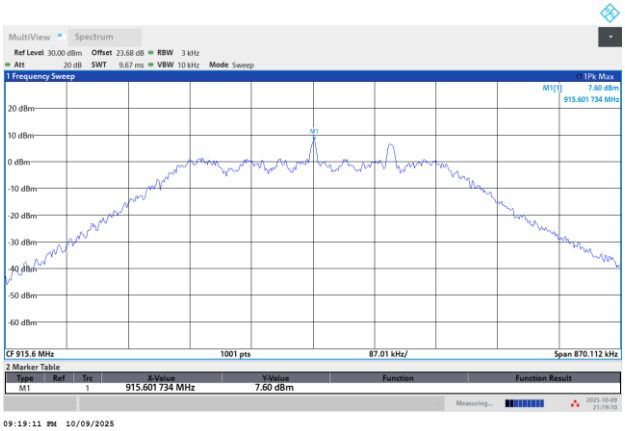
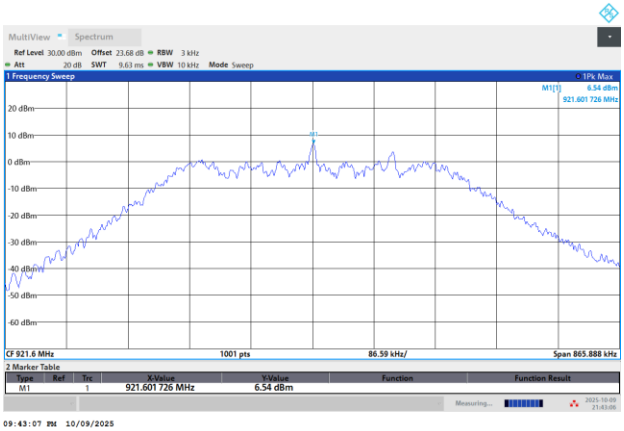
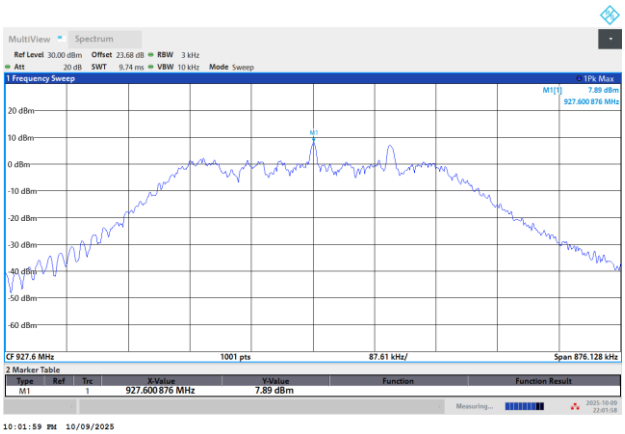
6dB Bandwidth

6 dB Bandwidth Plot on Channel 0	6 dB Bandwidth Plot on Channel 10
	
6 dB Bandwidth Plot on Channel 20	
	

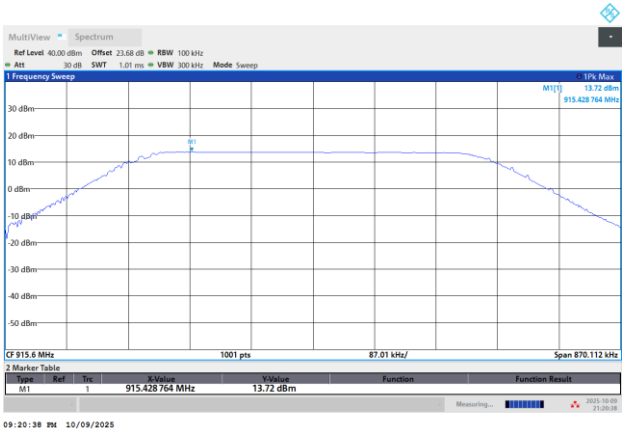
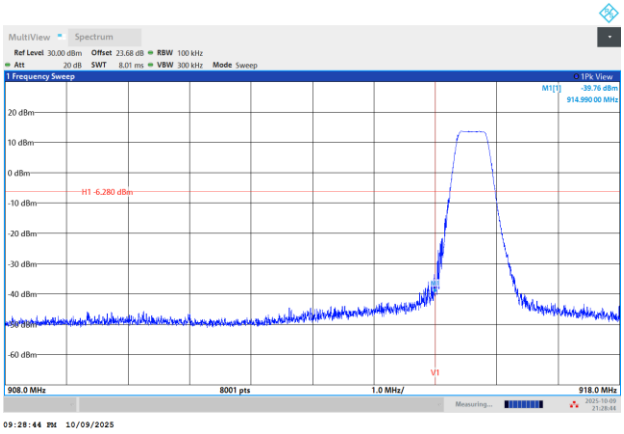
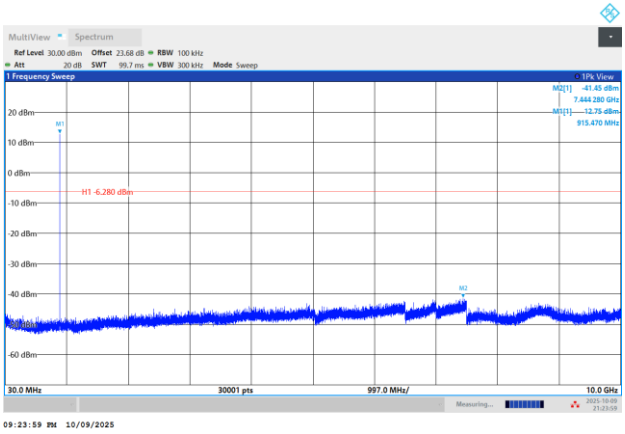
99% Occupied Bandwidth

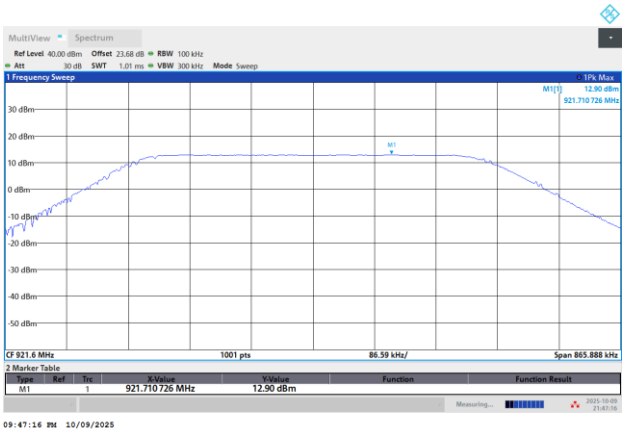
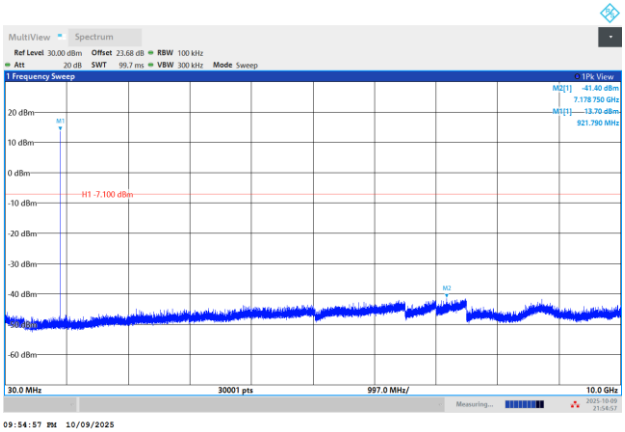
99% Occupied Bandwidth Plot on Channel 0	99% Occupied Bandwidth Plot on Channel 10
	
99% Occupied Bandwidth Plot on Channel 20	
	

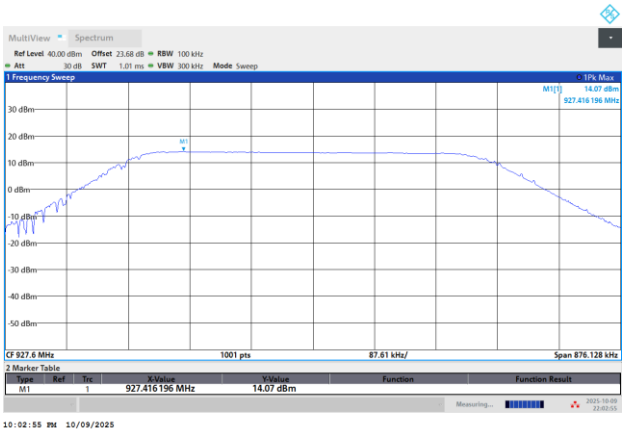
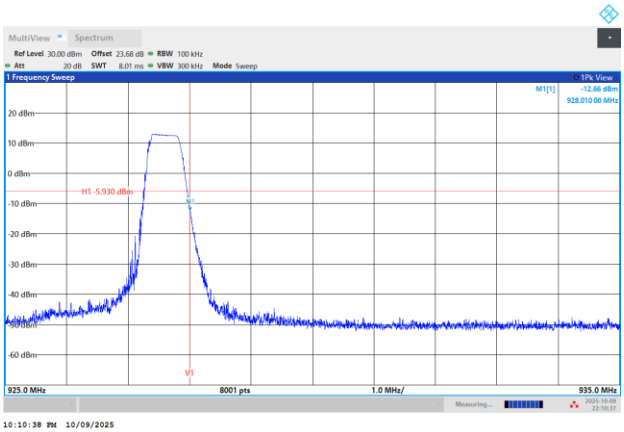
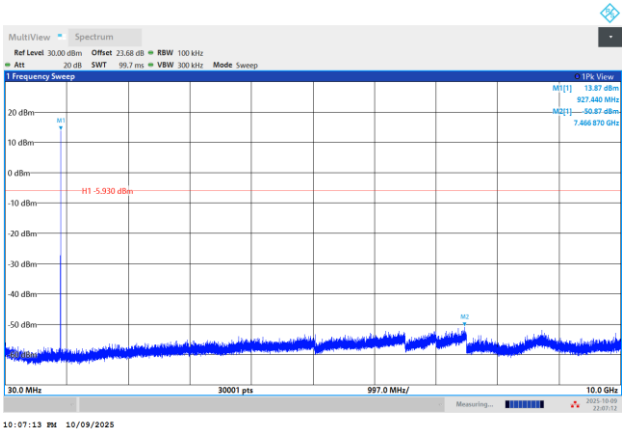
Power Spectral Density (dBm/3kHz)

Power Density (dBm/3kHz) Plot on Channel 0	Power Density (dBm/3kHz) Plot on Channel 10
	
Power Density (dBm/3kHz) Plot on Channel 20	
	

Band Edge and Conducted Spurious Emission

Channel 0	
100kHz PSD reference Level Plot	**Plot on Channel 0**
	
Spurious Emission 30MHz~10GHz Plot	
	

Channel 10	
100kHz PSD reference Level Plot	
	
Spurious Emission 30MHz~10GHz Plot	
	

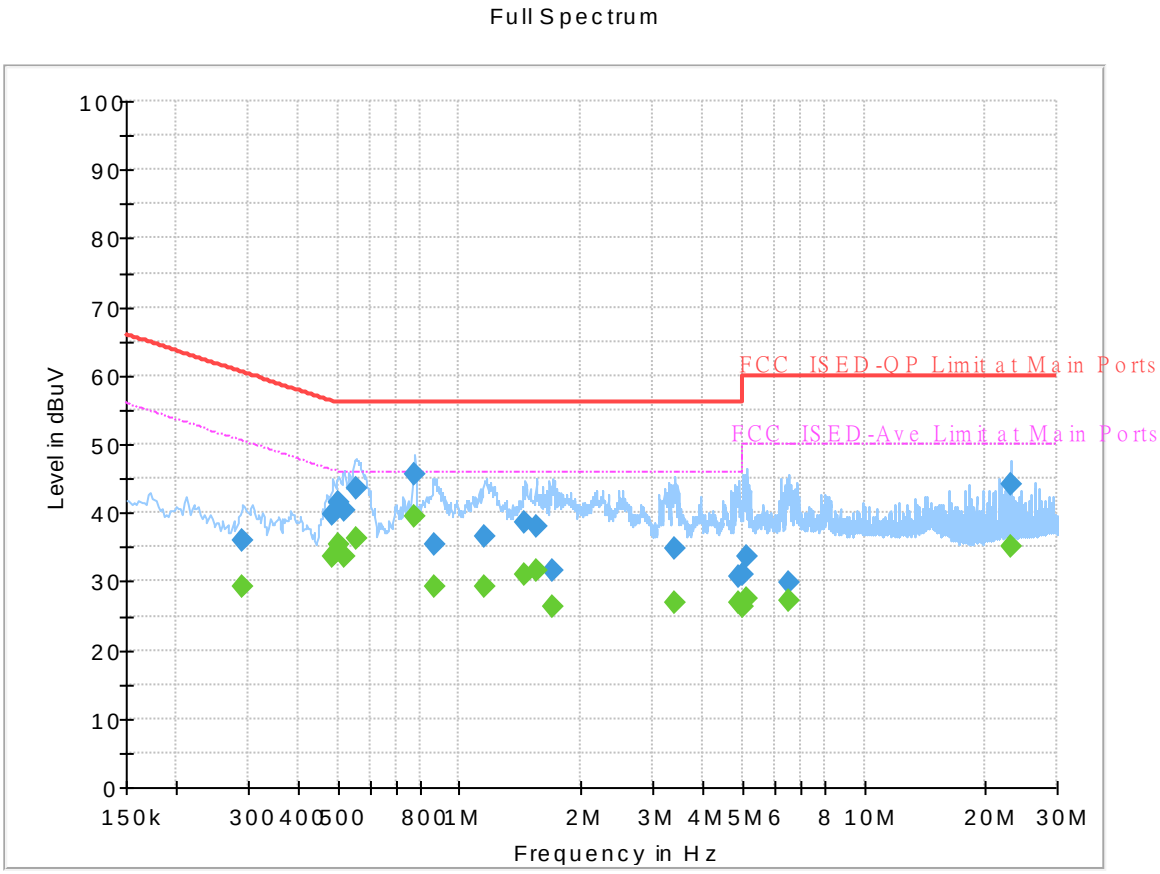
Channel 20	
100kHz PSD reference Level Plot	**Plot on Channel 20**
	
Spurious Emission 30MHz~10GHz Plot	
	

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Brian Chen	**Temperature :**	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO :	581203
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line



Final_Result

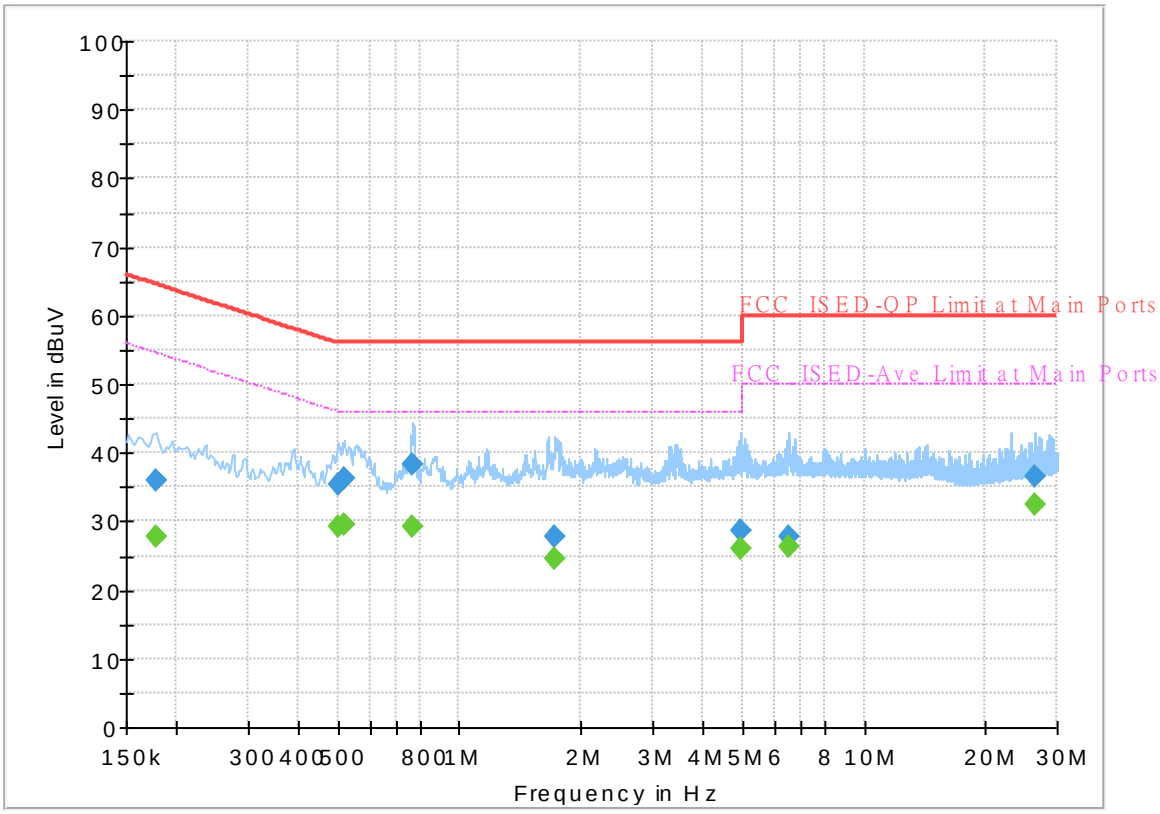
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.291750	---	29.36	50.47	21.11	L1	OFF	19.8
0.291750	35.86	---	60.47	24.61	L1	OFF	19.8
0.487500	---	33.74	46.21	12.47	L1	OFF	19.8
0.487500	39.86	---	56.21	16.35	L1	OFF	19.8
0.501000	---	35.49	46.00	10.51	L1	OFF	19.8
0.501000	41.51	---	56.00	14.49	L1	OFF	19.8
0.521250	---	33.72	46.00	12.28	L1	OFF	19.8
0.521250	40.35	---	56.00	15.65	L1	OFF	19.8
0.555000	---	36.20	46.00	9.80	L1	OFF	19.8
0.555000	43.58	---	56.00	12.42	L1	OFF	19.8
0.775500	---	39.37	46.00	6.63	L1	OFF	19.9
0.775500	45.50	---	56.00	10.50	L1	OFF	19.9
0.863250	---	29.18	46.00	16.82	L1	OFF	19.9
0.863250	35.28	---	56.00	20.72	L1	OFF	19.9
1.155750	---	29.32	46.00	16.68	L1	OFF	19.9
1.155750	36.44	---	56.00	19.56	L1	OFF	19.9
1.455000	---	31.07	46.00	14.93	L1	OFF	19.9
1.455000	38.57	---	56.00	17.43	L1	OFF	19.9
1.551750	---	31.56	46.00	14.44	L1	OFF	19.9
1.551750	38.14	---	56.00	17.86	L1	OFF	19.9
1.707000	---	26.43	46.00	19.57	L1	OFF	19.9

1.707000	31.66	---	56.00	24.34	L1	OFF	19.9
3.410250	---	26.83	46.00	19.17	L1	OFF	20.0
3.410250	34.72	---	56.00	21.28	L1	OFF	20.0
4.917750	---	26.96	46.00	19.04	L1	OFF	20.1
4.917750	30.72	---	56.00	25.28	L1	OFF	20.1
5.007750	---	26.29	50.00	23.71	L1	OFF	20.1
5.007750	30.85	---	60.00	29.15	L1	OFF	20.1
5.118000	---	27.62	50.00	22.38	L1	OFF	20.1
5.118000	33.72	---	60.00	26.28	L1	OFF	20.1
6.549000	---	27.17	50.00	22.83	L1	OFF	20.3
6.549000	29.90	---	60.00	30.10	L1	OFF	20.3
23.129250	---	35.02	50.00	14.98	L1	OFF	20.6
23.129250	44.28	---	60.00	15.72	L1	OFF	20.6

EUT Information

Report NO :	511620
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.177000	---	27.80	54.63	26.83	N	OFF	19.8
0.177000	35.83	---	64.63	28.80	N	OFF	19.8
0.501000	---	29.20	46.00	16.80	N	OFF	19.8
0.501000	35.31	---	56.00	20.69	N	OFF	19.8
0.519000	---	29.60	46.00	16.40	N	OFF	19.8
0.519000	36.37	---	56.00	19.63	N	OFF	19.8
0.768750	---	29.16	46.00	16.84	N	OFF	19.9
0.768750	38.18	---	56.00	17.82	N	OFF	19.9
1.722750	---	24.58	46.00	21.42	N	OFF	19.9
1.722750	27.67	---	56.00	28.33	N	OFF	19.9
4.978500	---	25.94	46.00	20.06	N	OFF	20.1
4.978500	28.65	---	56.00	27.35	N	OFF	20.1
6.540000	---	26.24	50.00	23.76	N	OFF	20.3
6.540000	27.67	---	60.00	32.33	N	OFF	20.3
26.610000	---	32.53	50.00	17.47	N	OFF	20.8
26.610000	36.41	---	60.00	23.59	N	OFF	20.8

Appendix C. Radiated Spurious Emission

Test Engineer :	Stan Hsieh, Ken Wu	Temperature :	24.1~26.9°C
		Relative Humidity :	56.1~63.5%

915 MHz ~ 928 MHz

(30 MHz ~ 1GHz @ 3m)

Mode	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Lora_500kHz 915.6MHz		74.01	27.89	-12.11	40	43.45	12.82	1.54	29.92	-	-	P	H
		151.5	30.05	-13.45	43.5	40.71	17.01	2.17	29.84	-	-	P	H
		250.05	39.83	-6.17	46	48.54	18.37	2.77	29.85	-	-	P	H
		328	25.83	-20.17	46	32.89	19.65	3.16	29.87	-	-	P	H
		624.8	30.53	-15.47	46	29.8	26.24	4.3	29.81	-	-	P	H
	*	915.6	118.41	-	-	113.15	29.06	5.19	28.99	100	268	P	H
		981.8	34.75	-19.25	54	27.12	30.76	5.43	28.56	-	-	P	H
													H
													H
		58.62	31.76	-8.24	40	48.41	11.93	1.4	29.98	-	-	P	V
		94.26	31.05	-12.45	43.5	44.01	15.24	1.76	29.96	-	-	P	V
		250.05	33.65	-12.35	46	42.36	18.37	2.77	29.85	-	-	P	V
		305.6	27.42	-18.58	46	34.85	19.33	3.06	29.82	-	-	P	V
		624.8	31.07	-14.93	46	30.34	26.24	4.3	29.81	-	-	P	V
	*	915.6	116.95	-	-	111.69	29.06	5.19	28.99	100	10	P	V
		975.5	36.39	-17.61	54	28.61	30.97	5.41	28.6	-	-	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Mode	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Lora_500kHz 921.6MHz		40.8	26.76	-13.24	40	36.44	19.16	1.18	30.02	-	-	P	H
		151.5	30.6	-12.9	43.5	41.26	17.01	2.17	29.84	-	-	P	H
		250.05	39.95	-6.05	46	48.66	18.37	2.77	29.85	-	-	P	H
		328	25	-21	46	32.06	19.65	3.16	29.87	-	-	P	H
		624.8	30.55	-15.45	46	29.82	26.24	4.3	29.81	-	-	P	H
	*	921.6	118.84	-	-	113.31	29.27	5.21	28.95	100	336	P	H
		976.2	33.95	-20.05	54	26.16	30.97	5.41	28.59	-	-	P	H
													H
													H
		58.62	31.01	-8.99	40	47.66	11.93	1.4	29.98	-	-	P	V
		94.26	30.35	-13.15	43.5	43.31	15.24	1.76	29.96	-	-	P	V
		250.05	33.2	-12.8	46	41.91	18.37	2.77	29.85	-	-	P	V
		328	21.95	-24.05	46	29.01	19.65	3.16	29.87	-	-	P	V
		624.8	31.52	-14.48	46	30.79	26.24	4.3	29.81	-	-	P	V
	*	921.6	118.13	-	-	112.6	29.27	5.21	28.95	100	6	P	V
		983.9	34.61	-19.39	54	27.01	30.7	5.44	28.54	-	-	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Mode	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Lora_500kHz 927.6MHz		30.27	30.11	-9.89	40	35.82	23.67	0.61	29.99	-	-	P	H
		47.55	25.01	-14.99	40	38.18	15.58	1.26	30.01	-	-	P	H
		250.05	33.27	-12.73	46	41.98	18.37	2.77	29.85	-	-	P	H
		500.2	27.82	-18.18	46	30.09	23.8	3.87	29.94	-	-	P	H
		624.8	29.58	-16.42	46	28.85	26.24	4.3	29.81	-	-	P	H
	*	927.6	119.4	-	-	113.59	29.49	5.23	28.91	245	227	P	H
		971.3	34.62	-19.38	54	26.9	30.94	5.4	28.62	-	-	P	H
													H
													H
		30	33.49	-6.51	40	39.22	23.68	0.58	29.99	-	-	P	V
		58.62	28.17	-11.83	40	44.82	11.93	1.4	29.98	-	-	P	V
		106.68	26.72	-16.78	43.5	38.05	16.76	1.85	29.94	-	-	P	V
		500.2	28.51	-17.49	46	30.78	23.8	3.87	29.94	-	-	P	V
		652.8	28.56	-17.44	46	27.49	26.48	4.37	29.78	-	-	P	V
	*	927.6	114.07	-	-	108.26	29.49	5.23	28.91	158	276	P	V
		963.6	34.88	-19.12	54	27.12	31.06	5.37	28.67	-	-	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

915 MHz ~ 928 MHz

(1GHz ~ 10GHz @ 3m)

Mode	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2746.8	44.52	-29.48	74	61.59	32.37	9.65	59.09	300	35	P	H
		2746.8	40.14	-13.86	54	57.21	32.37	9.65	59.09	300	35	A	H
		3662.4	40.5	-33.5	74	55.5	33.25	10.97	59.22	-	-	P	H
		4578	42.12	-31.88	74	54.39	34.06	12.55	58.88	-	-	P	H
		7324.8	41.17	-32.83	74	47.8	35.7	15.38	57.71	-	-	P	H
		8240.4	41.4	-32.6	74	46.75	35.82	16.47	57.64	-	-	P	H
		9156	42.47	-31.53	74	47.24	36.3	17.97	59.04	-	-	P	H
Lora_500kHz													
915.6MHz		2746.8	39.65	-34.35	74	56.72	32.37	9.65	59.09	-	-	P	V
		3662.4	40.27	-33.73	74	55.27	33.25	10.97	59.22	-	-	P	V
		4578	42.21	-31.79	74	54.48	34.06	12.55	58.88	-	-	P	V
		7324.8	41.85	-32.15	74	48.48	35.7	15.38	57.71	-	-	P	V
		8240.4	41.42	-32.58	74	46.77	35.82	16.47	57.64	-	-	P	V
		9156	43.16	-30.84	74	47.93	36.3	17.97	59.04	-	-	P	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Mode	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2764.8	51.01	-22.99	74	68	32.4	9.7	59.09	400	322	P	H
		2764.8	48.55	-5.45	54	65.54	32.4	9.7	59.09	400	322	A	H
		3686.4	40.23	-33.77	74	55.27	33.15	11.03	59.22	-	-	P	H
		4608	43.78	-30.22	74	55.87	34.12	12.61	58.82	300	255	P	H
		4608	36.71	-17.29	54	48.8	34.12	12.61	58.82	300	255	A	H
		7372.8	42.31	-31.69	74	49.01	35.7	15.39	57.79	-	-	P	H
		8294.4	42.22	-31.78	74	47.56	35.8	16.49	57.63	-	-	P	H
Lora_500kHz 921.6MHz		2764.8	50.13	-23.87	74	67.12	32.4	9.7	59.09	360	70	P	V
		2764.8	46.54	-7.46	54	63.53	32.4	9.7	59.09	360	70	A	V
		3686.4	40.67	-33.33	74	55.71	33.15	11.03	59.22	-	-	P	V
		4608	41.65	-32.35	74	53.74	34.12	12.61	58.82	-	-	P	V
		7372.8	44.56	-29.44	74	51.26	35.7	15.39	57.79	100	111	P	V
		7372.8	40.5	-13.5	54	47.2	35.7	15.39	57.79	100	111	A	V
		8294.4	42.64	-31.36	74	47.98	35.8	16.49	57.63	-	-	P	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Mode	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2782.8	44.26	-29.74	74	61.08	32.53	9.75	59.1	400	2	P	H
		2782.8	40.88	-13.12	54	57.7	32.53	9.75	59.1	400	2	A	H
		3710.4	40.03	-33.97	74	55.05	33.12	11.09	59.23	-	-	P	H
		4638	41.02	-32.98	74	52.97	34.18	12.62	58.75	-	-	P	H
		7420.8	41.12	-32.88	74	47.85	35.7	15.44	57.87	-	-	P	H
		8348.4	42.03	-31.97	74	47.24	35.9	16.51	57.62	-	-	P	H
Lora_500kHz													
927.6MHz		2782.8	40.4	-33.6	74	57.22	32.53	9.75	59.1	-	-	P	V
		3710.4	39.59	-34.41	74	54.61	33.12	11.09	59.23	-	-	P	V
		4638	40.25	-33.75	74	52.2	34.18	12.62	58.75	-	-	P	V
		7420.8	42.82	-31.18	74	49.55	35.7	15.44	57.87	-	-	P	V
		8348.4	42	-32	74	47.21	35.9	16.51	57.62	-	-	P	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **Margin** line.
P/A	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

A calculation example for radiated spurious emission is shown as below:

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
CH 00 2402MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =

Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

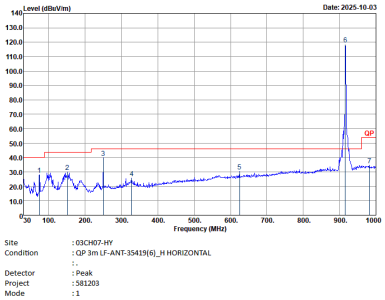
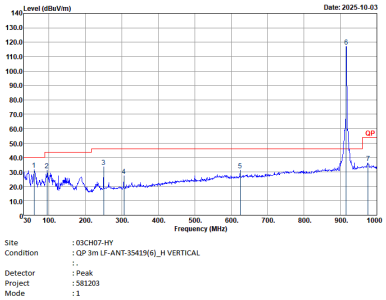
= -10.46(dB)

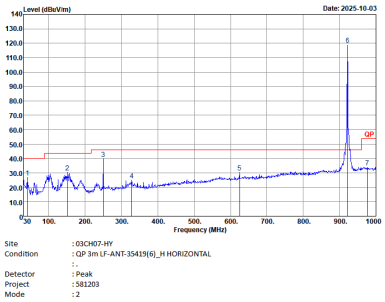
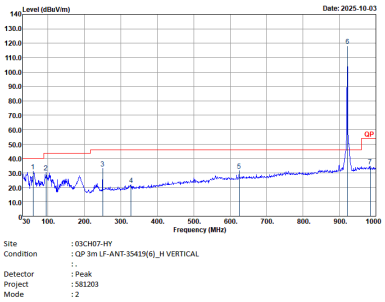
Both peak and average measured complies with the limit line, so test result is "PASS".

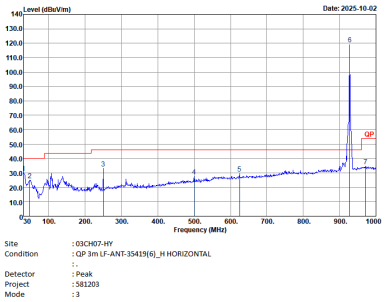
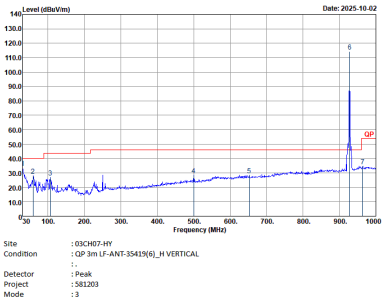
Appendix D. Radiated Spurious Emission Plots

915 MHz ~ 928 MHz

(30 MHz ~ 1 GHz @ 3m)

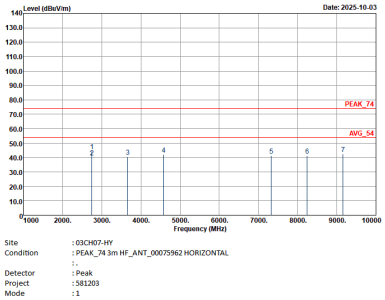
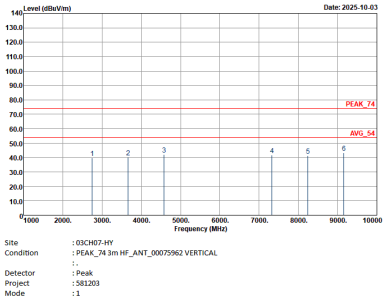
ANT	LoRa_500kHz 915.6MHz	
1	Horizontal	Vertical
QP / Peak		

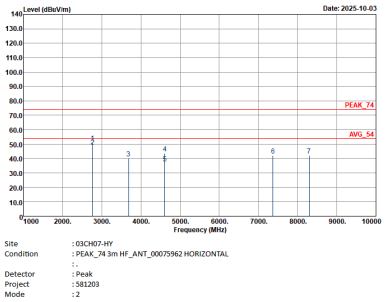
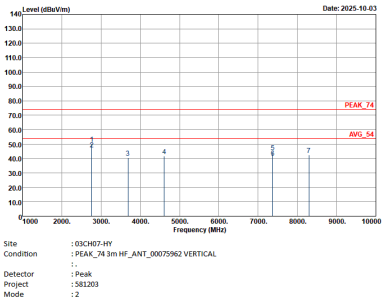
ANT	LoRa_500kHz 921.6MHz	
1	Horizontal	Vertical
QP / Peak		

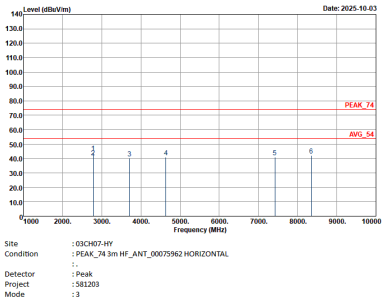
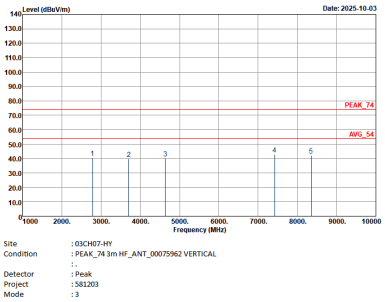
ANT	LoRa_500kHz 927.6MHz	
1	Horizontal	Vertical
QP / Peak		

915 MHz ~ 928 MHz

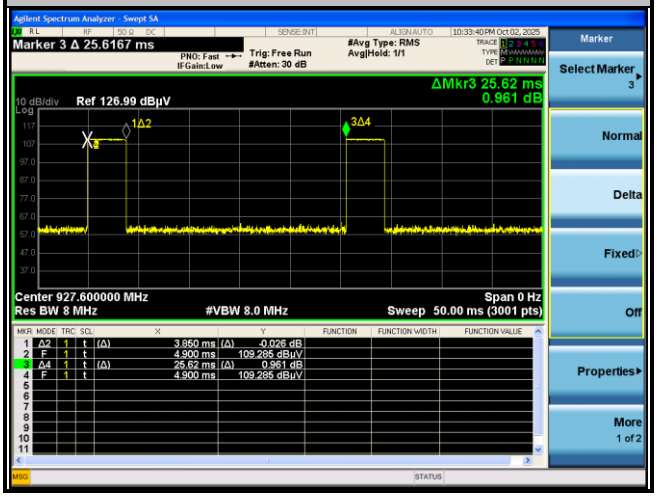
(30 MHz ~ 1 GHz @ 3m)

ANT	LoRa_500kHz 915.6MHz	
1	Horizontal	Vertical
Peak Avg.		

ANT	LoRa_500kHz 921.6MHz	
1	Horizontal	Vertical
Peak Avg.		

ANT	LoRa_500kHz 927.6MHz	
1	Horizontal	Vertical
Peak Avg.		

Appendix E. Duty Cycle Plots

Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
LoRa 500 kHz	15.03	3850	0.26	300Hz

LoRa 500 kHz