



FCC RADIO TEST REPORT

FCC ID : Z64-CC33DBMOD
Equipment : 802.11 a/b/g/n/ac/ax WLAN + BLE Radio Module
Brand Name : Texas Instruments
Model Name : CC33MOD-DB
Applicant : Texas Instruments Incorporated
12500 TI BLVD., Dallas, Texas, 75243
Manufacturer : Texas Instruments Incorporated
12500 TI BLVD., Dallas, Texas, 75243
Standard : FCC Part 15 Subpart C §15.247

The product was received on May 05, 2025 and testing was performed from May 12, 2025 to Jun. 25, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

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



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History of this test report

Report No.	Version	Description	Issue Date
FR550509A	01	Initial issue of report	Jul. 07, 2025
FR550509A	02	Revised Product Feature of Equipment Under Test This report is an updated version, replacing the report issued on Jul. 07, 2025	Jul. 14, 2025

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: Danny Lee

Report Producer: Shiori Chen



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth - LE (125 kbps, 500 kbps, 1Mbps, 2Mbps), Wi-Fi 2.4GHz 802.11b/g/n/ax, and Wi-Fi 5GHz 802.11a/n/ac/ax.
Antenna Type Bluetooth: Chip Antenna

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	3

Model Differences				
Model	Test Grade	Wifi 2.4GHz	Wifi 5GHz	BT LE
CC33MOD-DB	50	Yes	Yes	No
	51	Yes	Yes	Yes

Remark:

1. The device is identical in hardware; the only difference lies in the software.
2. 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, CO07-HY, 03CH11-HY

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

FCC designation No.: TW3786



1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart 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	0	2402	21	2444
	1	2404	22	2446
	2	2406	23	2448
	3	2408	24	2450
	4	2410	25	2452
	5	2412	26	2454
	6	2414	27	2456
	7	2416	28	2458
	8	2418	29	2460
	9	2420	30	2462
	10	2422	31	2464
	11	2424	32	2466
	12	2426	33	2468
	13	2428	34	2470
	14	2430	35	2472
	15	2432	36	2474
	16	2434	37	2476
	17	2436	38	2478
	18	2438	39	2480
	19	2440	-	-
	20	2442	-	-

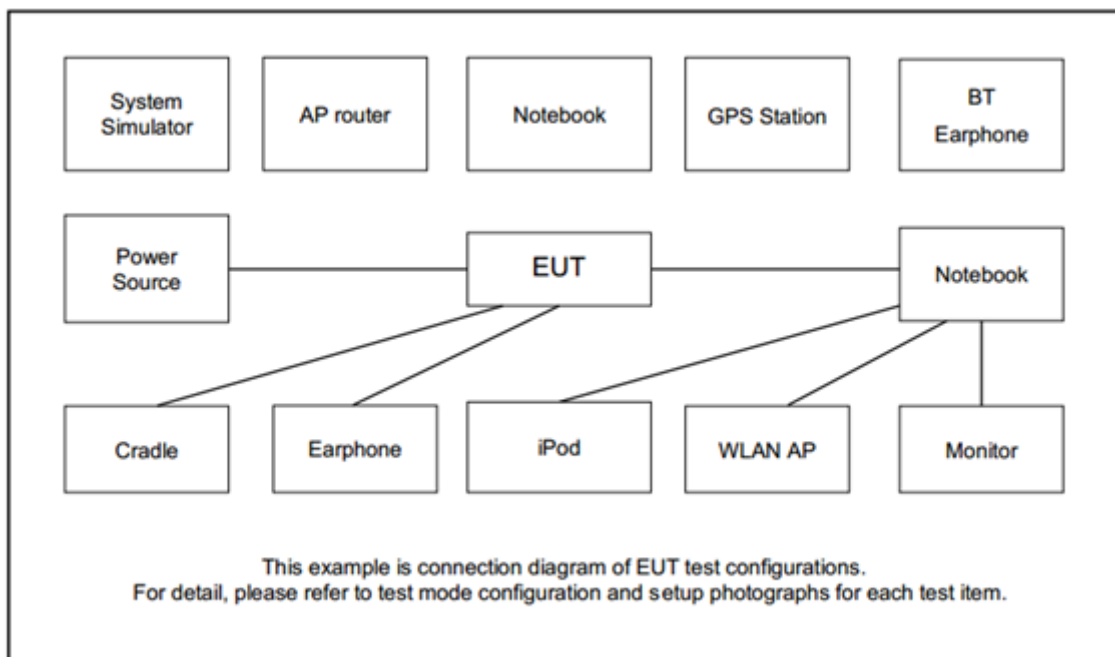
2.2 Test Mode

- 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	Data Rate / Modulation
Conducted Test Cases	Bluetooth – LE / GFSK
	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps
	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps
	Mode 4: Bluetooth Tx CH01_2404 MHz_2Mbps
	Mode 5: Bluetooth Tx CH19_2440 MHz_2Mbps
	Mode 6: Bluetooth Tx CH38_2478 MHz_2Mbps
	Mode 7: Bluetooth Tx CH00_2402 MHz_125kbps
	Mode 8: Bluetooth Tx CH19_2440 MHz_125kbps
	Mode 9: Bluetooth Tx CH39_2480 MHz_125kbps
	Mode 10: Bluetooth Tx CH00_2402 MHz_500kbps
	Mode 11: Bluetooth Tx CH19_2440 MHz_500kbps
	Mode 12: Bluetooth Tx CH39_2480 MHz_500kbps
AC Conducted Emission	Mode 1: Bluetooth - LE TX + Development Kit with USB Cable (Charging from Notebook)
Remark: - For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power. - Bluetooth-LE 2Mbps does not support primary advertising channels; it does not support channel 00 and channel 39. - The detailed Radiated test modes are shown in Appendix E.	

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	NA	N/A	AC I/P : Unshielded, 1.2 m DC O/P : Shielded, 1.8 m
2.	Notebook	Lenovo	81DE	FCC DoC	N/A	Unshielded, 1.8m
3.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC4A00	N/A	Unshielded, 1.8m
4.	USB HD	WD	WDBAAR3200ABK-PESN	FCC DoC	Shielded, 0.5m	N/A
5.	Development Kit	TI	LP-XDS110ET	N/A	N/A	N/A
6.	USB 3.0 to Gigabit Ethernet Network Adapter	TP-Link	UE300	FCC DoC	N/A	N/A
7.	USB-C to USB-A Cable	a+ plus	ACB-U31A	N/A	Shielded, 1.2m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "SimpleLink Wi-Fi Toolbox 2.4.1.eng-sw" 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.

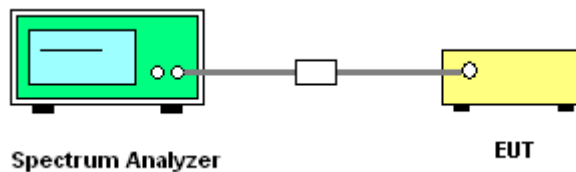
3.1.2 Measuring Instruments

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) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. 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.

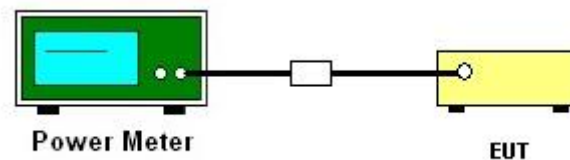
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.3 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.
4. The path loss is compensated to the results for each measurement.
5. Set the maximum power setting and enable the EUT to transmit continuously.
6. 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.

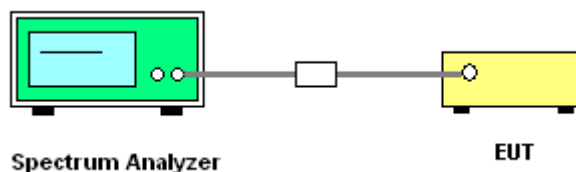
3.3.2 Measuring Instruments

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. (6 dB BW)
5. Detector = peak, Sweep time = auto couple, 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.

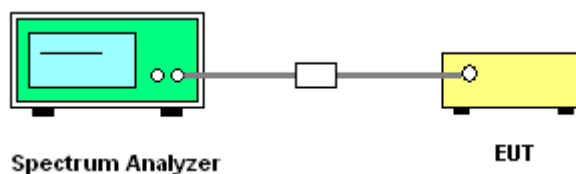
3.4.2 Measuring Instruments

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 11.12.2 Antenna-port conducted measurements.
2. Measure the conducted output power (in dBm) using the peak detector.
3. Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP.
4. Add the appropriate maximum ground reflection factor to the EIRP (6 dB for frequencies ≤ 30 MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for frequencies > 1000 MHz).
5. Convert the resultant EIRP to an equivalent electric field strength using the following relationship:
$$E = \text{EIRP} - 20 \log d + 104.8,$$
where
E is the electric field strength in dB μ V/m
EIRP is the equivalent isotropically radiated power in dBm
d is the specified measurement distance in 3m
6. Compare the resultant electric field strength level with the applicable regulatory limit.
7. Corrected Reading for conducted spurious emission: Antenna Factor + Cable Loss + Read Level = Level
8. Perform the cabinet radiated spurious emission test.
9. 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.
10. 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.
11. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
12. Corrected Reading for cabinet radiated spurious emission: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
13. 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 “-”.
14. 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 “-”.

15. Use the following spectrum analyzer settings:

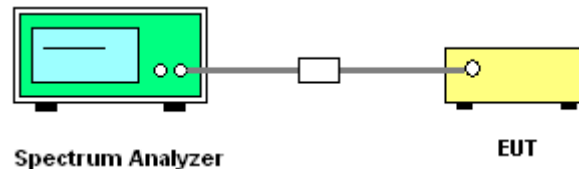
- (1) Span shall wide enough to fully capture the emission being measured;
- (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
- (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

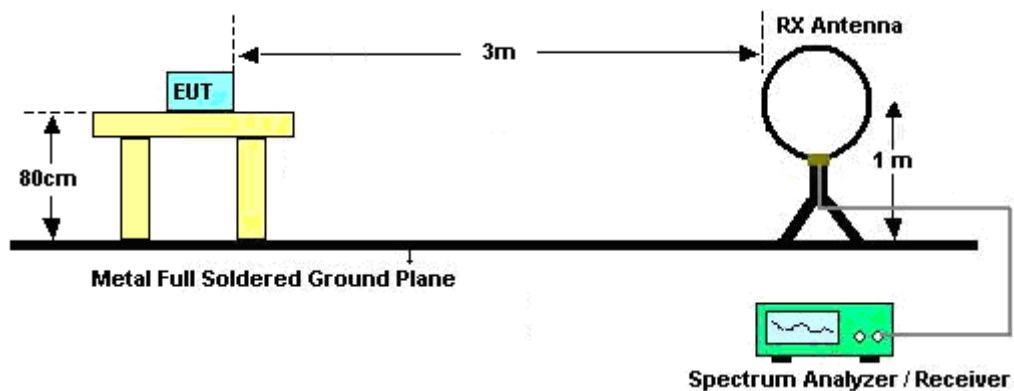
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

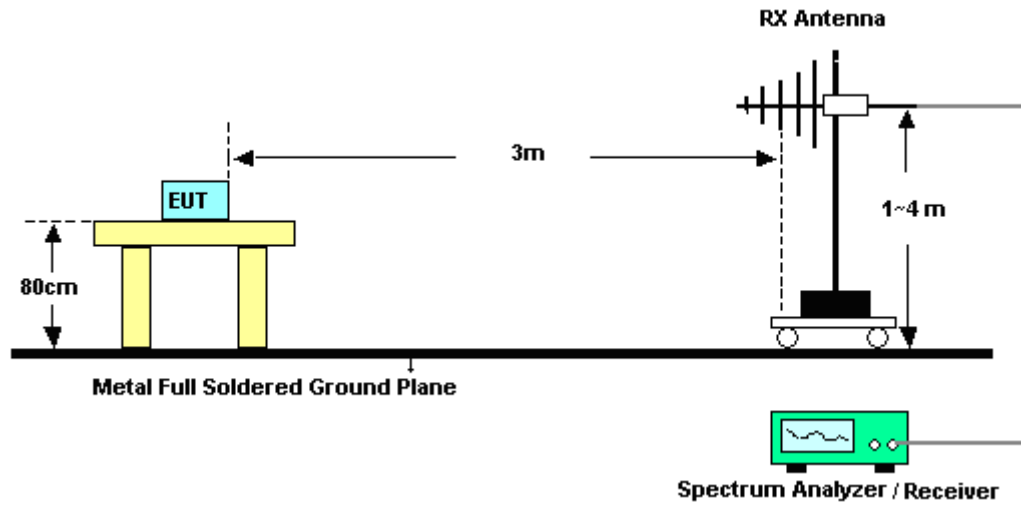
For Conducted Measurement Setup:



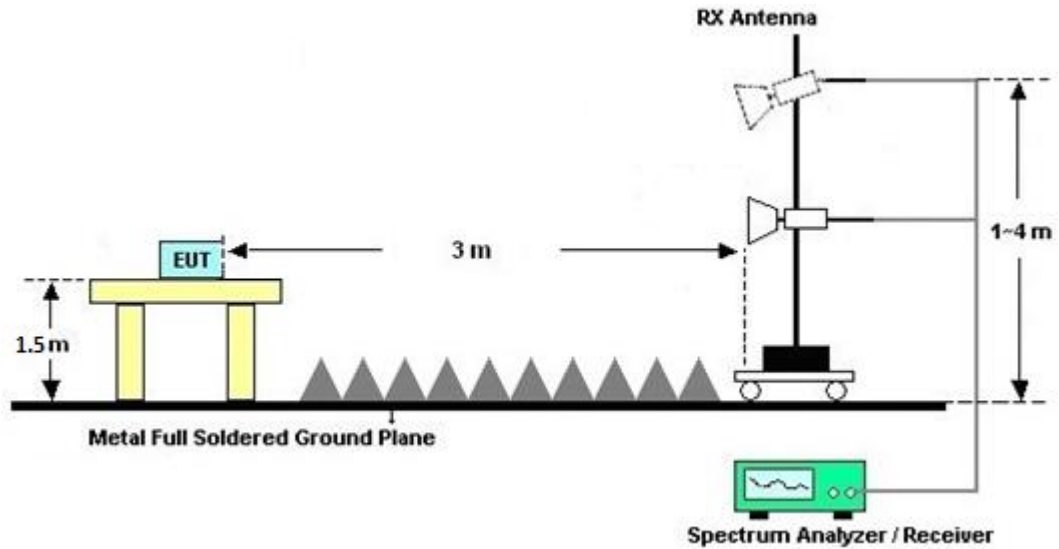
For radiated test below 30MHz



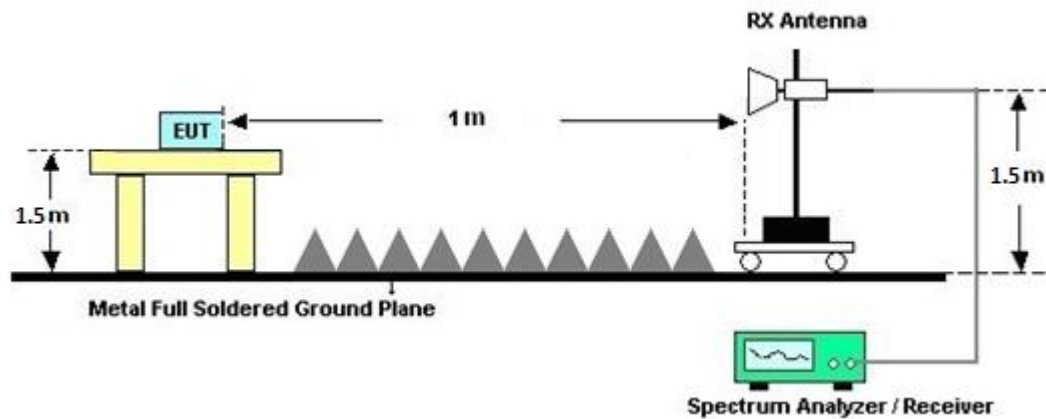
For radiated test from 30MHz to 1GHz



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)**

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 Conduced Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Test Result of Conduced Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.5.8 Test Result of Cabinet Radiated Spurious at Band Edges

Please refer to Appendix E.

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

Please refer to Appendix E.

3.5.9 Duty Cycle

Please refer to Appendix F.

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.

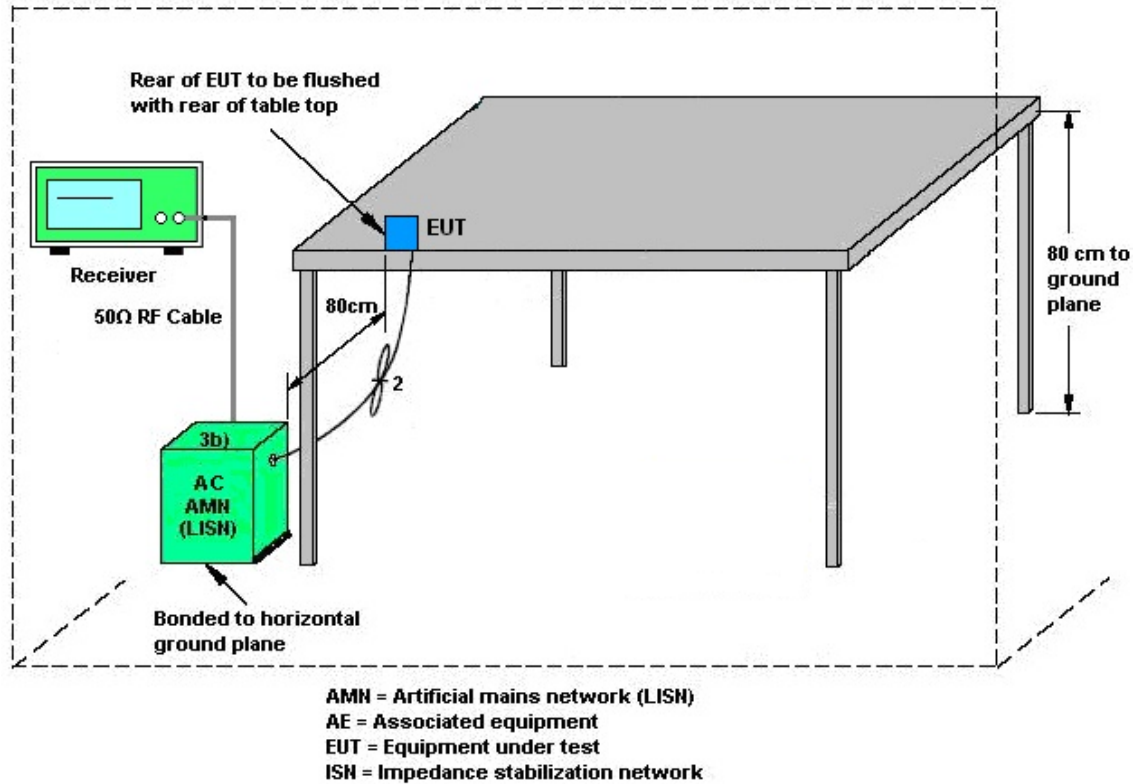
3.6.2 Measuring Instruments

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. 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 = 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	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	May 12, 2025~ Jun. 25, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	May 12, 2025~ Jun. 25, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Jul. 04, 2024	May 12, 2025~ Jun. 25, 2025	Jul. 03, 2025	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Jul. 04, 2024	May 12, 2025~ Jun. 25, 2025	Jul. 03, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	May 12, 2025~ Jun. 25, 2025	Aug. 22, 2025	Conducted (TH05-HY)
Switch Control Mainframe	E-Instrument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	May 12, 2025~ Jun. 25, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final version_240513	N/A	Conducted Other Test Item	N/A	May 12, 2025~ Jun. 25, 2025	N/A	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	May 12, 2025~ May 27, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	May 12, 2025~ May 27, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Jul. 04, 2024	May 12, 2025~ May 27, 2025	Jul. 03, 2025	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Jul. 04, 2024	May 12, 2025~ May 27, 2025	Jul. 03, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	May 12, 2025~ May 27, 2025	Aug. 22, 2025	Conducted (TH05-HY)
Switch Control Mainframe	E-Instrument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	May 12, 2025~ May 27, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final version_240513	N/A	Conducted Other Test Item	N/A	May 12, 2025~ May 27, 2025	N/A	Conducted (TH05-HY)
Spectrum Analyzer	Keysight	N9010B	MY64320114	10Hz~44GHz	Oct. 05, 2024	May 16, 2025~ Jun. 03, 2025	Oct. 04, 2025	CSE (TH05-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN28	1.53GHz Low Pass Filter	May 22, 2024	May 16, 2025~ May 20, 2025	May 21, 2025	CSE (TH05-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN28	1.53GHz Low Pass Filter	May 21, 2025	May 21, 2025~ Jun. 03, 2025	May 20, 2026	CSE (TH05-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN7	3GHz High Pass Filter	Dec. 25, 2024	May 16, 2025~ Jun. 03, 2025	Dec. 24, 2025	CSE (TH05-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 05, 2025	May 16, 2025~ Jun. 03, 2025	Mar. 04, 2026	CSE (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	May 22, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 22, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Oct. 23, 2024	May 22, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 03, 2025	May 22, 2025	Mar. 02, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	May 22, 2025	Mar. 23, 2026	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 26, 2025	May 22, 2025	Mar. 25, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	May 22, 2025	Sep. 22, 2025	Conduction (CO07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 27, 2024	May 24, 2025~Jun. 20, 2025	Nov. 26, 2025	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 18, 2024	May 24, 2025~Jun. 20, 2025	Dec. 17, 2025	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 28, 2024	May 24, 2025~Jun. 20, 2025	Aug. 27, 2025	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jun. 24, 2024	May 24, 2025~Jun. 20, 2025	Jun. 23, 2025	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 07, 2024	May 24, 2025~Jun. 20, 2025	Dec. 06, 2025	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 24, 2025	May 24, 2025~Jun. 20, 2025	Mar. 23, 2026	Radiation (03CH11-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz~18GHz	Jan. 21, 2025	May 24, 2025~Jun. 20, 2025	Jan. 20, 2026	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060871	18GHz~40GHz	Aug. 23, 2024	May 24, 2025~Jun. 20, 2025	Aug. 22 2025	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 14, 2024	May 24, 2025~Jun. 20, 2025	Oct. 13, 2025	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 19, 2024	May 24, 2025~Jun. 20, 2025	Jul. 18, 2025	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	May 24, 2025~Jun. 20, 2025	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	May 24, 2025~Jun. 20, 2025	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	May 24, 2025~Jun. 20, 2025	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	May 24, 2025~Jun. 20, 2025	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	N/A	Aug. 29, 2024	May 24, 2025~Jun. 20, 2025	Aug. 28, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	Mar. 05, 2025	May 24, 2025~Jun. 20, 2025	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 05, 2025	May 24, 2025~Jun. 20, 2025	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 05, 2025	May 24, 2025~Jun. 20, 2025	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	805139 2	30M~40G	May 10, 2025	May 24, 2025~Jun. 20, 2025	May 09, 2026	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	3GHz High Pass Filter	Sep. 10, 2024	May 24, 2025~Jun. 20, 2025	Sep. 09, 2025	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53GHz Low Pass Filter	Sep. 10, 2024	May 24, 2025~Jun. 20, 2025	Sep. 09, 2025	Radiation (03CH11-HY)
Attenuator	HONOVA	5910 SMA-50-005	0028	N/A	Sep. 10, 2024	May 24, 2025~Jun. 20, 2025	Sep. 09, 2025	Radiation (03CH11-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
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

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

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

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

Test Engineer:	Junyu Zhou	Temperature:	21~25	°C
Test Date:	2025/5/12~2025/5/27	Relative Humidity:	51~54	%

<125kbps>

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
BLE	125kbps	1	0	2402	1.045	0.597	0.50	Pass
BLE	125kbps	1	19	2440	1.046	0.598	0.50	Pass
BLE	125kbps	1	39	2480	1.045	0.598	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
BLE	125kbps	1	0	2402	8.16	30.00	3.00	11.16	36.00	Pass
BLE	125kbps	1	19	2440	7.84	30.00	3.00	10.84	36.00	Pass
BLE	125kbps	1	39	2480	7.36	30.00	3.00	10.36	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
BLE	125kbps	1	0	2402	7.00	30.00	3.00	10.00	36.00	Pass
BLE	125kbps	1	19	2440	6.60	30.00	3.00	9.60	36.00	Pass
BLE	125kbps	1	39	2480	6.10	30.00	3.00	9.10	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
BLE	125kbps	1	0	2402	7.20	1.16	3.00	8.00	Pass
BLE	125kbps	1	19	2440	6.89	0.84	3.00	8.00	Pass
BLE	125kbps	1	39	2480	6.37	0.35	3.00	8.00	Pass

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

<500kbps>

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
BLE	500kbps	1	0	2402	1.013	0.656	0.50	Pass
BLE	500kbps	1	19	2440	1.014	0.661	0.50	Pass
BLE	500kbps	1	39	2480	1.014	0.656	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
BLE	500kbps	1	0	2402	8.06	30.00	3.00	11.06	36.00	Pass
BLE	500kbps	1	19	2440	7.83	30.00	3.00	10.83	36.00	Pass
BLE	500kbps	1	39	2480	7.36	30.00	3.00	10.36	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
BLE	500kbps	1	0	2402	6.90	30.00	3.00	9.90	36.00	Pass
BLE	500kbps	1	19	2440	6.60	30.00	3.00	9.60	36.00	Pass
BLE	500kbps	1	39	2480	6.10	30.00	3.00	9.10	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
BLE	500kbps	1	0	2402	7.36	0.98	3.00	8.00	Pass
BLE	500kbps	1	19	2440	6.93	0.56	3.00	8.00	Pass
BLE	500kbps	1	39	2480	6.41	0.02	3.00	8.00	Pass

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

<1Mbps>

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
BLE	1Mbps	1	0	2402	1.011	0.658	0.50	Pass
BLE	1Mbps	1	19	2440	1.011	0.657	0.50	Pass
BLE	1Mbps	1	39	2480	1.006	0.666	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
BLE	1Mbps	1	0	2402	8.30	30.00	3.00	11.30	36.00	Pass
BLE	1Mbps	1	19	2440	7.71	30.00	3.00	10.71	36.00	Pass
BLE	1Mbps	1	39	2480	7.03	30.00	3.00	10.03	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
BLE	1Mbps	1	0	2402	6.90	30.00	3.00	9.90	36.00	Pass
BLE	1Mbps	1	19	2440	6.50	30.00	3.00	9.50	36.00	Pass
BLE	1Mbps	1	39	2480	6.10	30.00	3.00	9.10	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
BLE	1Mbps	1	0	2402	7.15	-5.98	3.00	8.00	Pass
BLE	1Mbps	1	19	2440	6.82	-6.26	3.00	8.00	Pass
BLE	1Mbps	1	39	2480	6.45	-7.81	3.00	8.00	Pass

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

<2Mbps>

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
BLE	2Mbps	1	1	2404	2.040	1.168	0.50	Pass
BLE	2Mbps	1	19	2440	2.039	1.160	0.50	Pass
BLE	2Mbps	1	38	2478	2.041	1.177	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
BLE	2Mbps	1	1	2404	8.26	30.00	3.00	11.26	36.00	Pass
BLE	2Mbps	1	19	2440	7.92	30.00	3.00	10.92	36.00	Pass
BLE	2Mbps	1	38	2478	7.26	30.00	3.00	10.26	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
BLE	2Mbps	1	1	2404	6.90	30.00	3.00	9.90	36.00	Pass
BLE	2Mbps	1	19	2440	6.50	30.00	3.00	9.50	36.00	Pass
BLE	2Mbps	1	38	2478	6.00	30.00	3.00	9.00	36.00	Pass

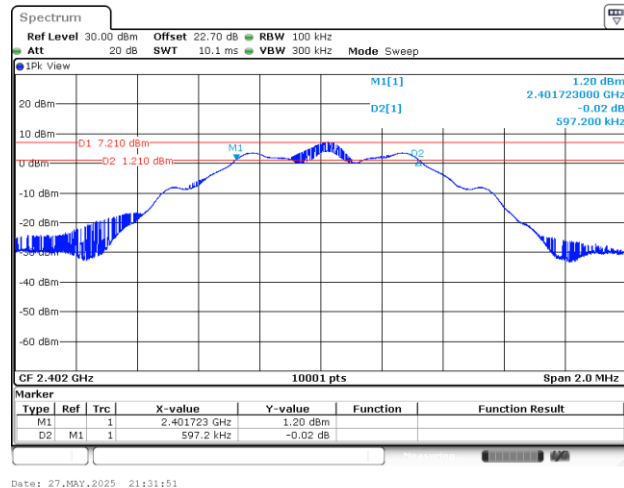
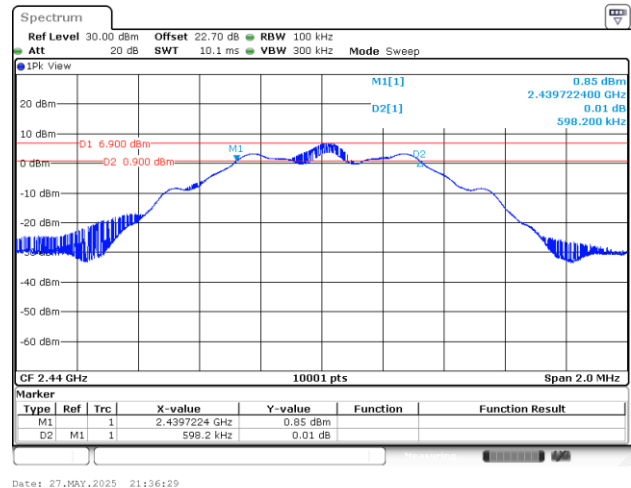
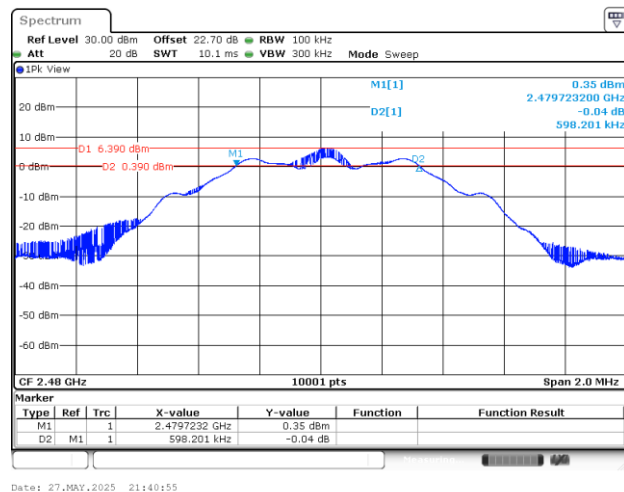
TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	2Mbps	1	1	2404	6.98	-8.61	3.00	8.00	Pass
BLE	2Mbps	1	19	2440	6.65	-8.90	3.00	8.00	Pass
BLE	2Mbps	1	38	2478	6.18	-9.39	3.00	8.00	Pass

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

**6dB Bandwidth**

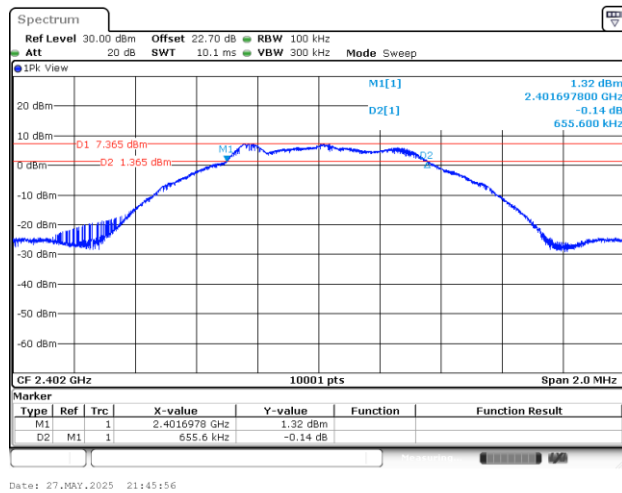
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6 dB Bandwidth Plot on Channel 0**6 dB Bandwidth Plot on Channel 19****6 dB Bandwidth Plot on Channel 39**

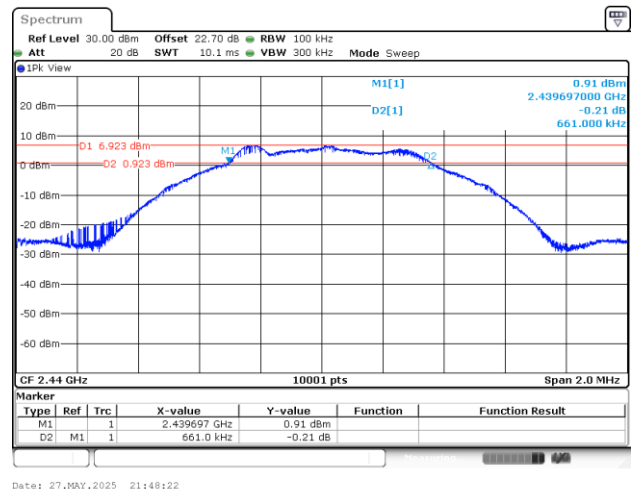


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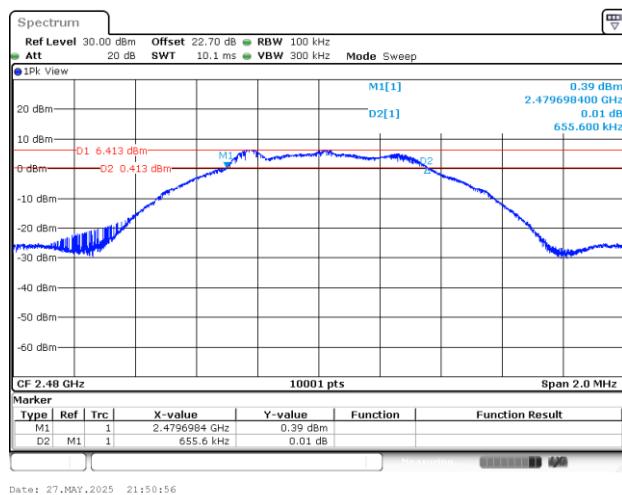
6 dB Bandwidth Plot on Channel 0



6 dB Bandwidth Plot on Channel 19

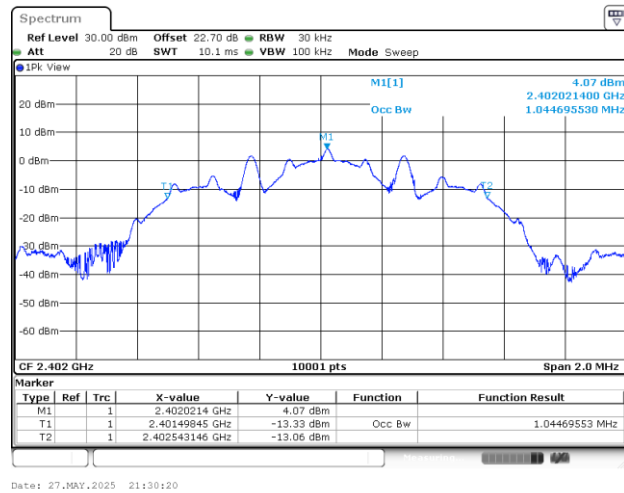
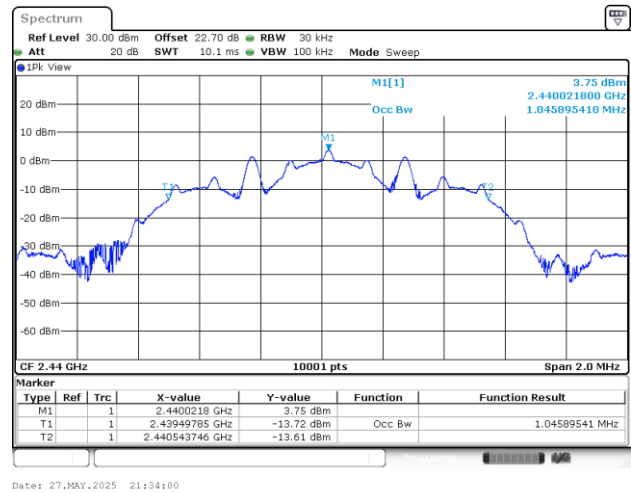
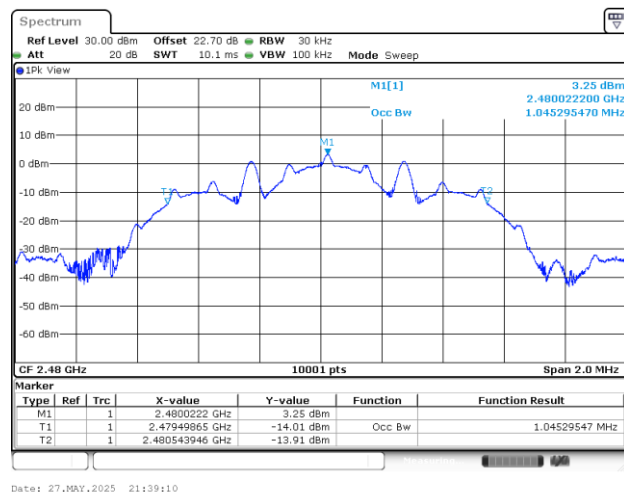


6 dB Bandwidth Plot on Channel 39



**99% Occupied Bandwidth**

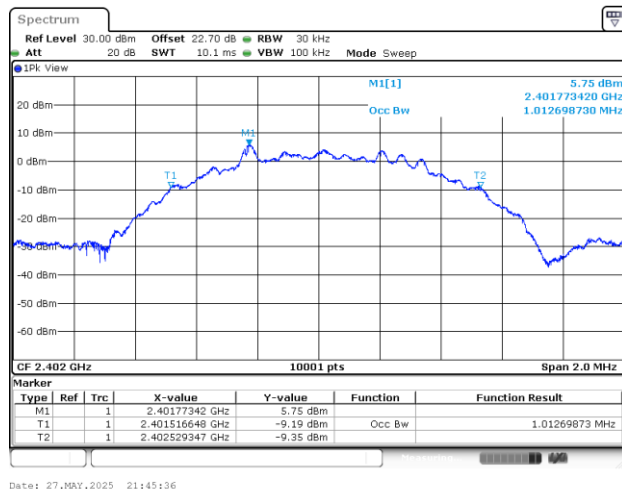
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99% Occupied Bandwidth Plot on Channel 0**99% Occupied Bandwidth Plot on Channel 19****99% Occupied Bandwidth Plot on Channel 39**

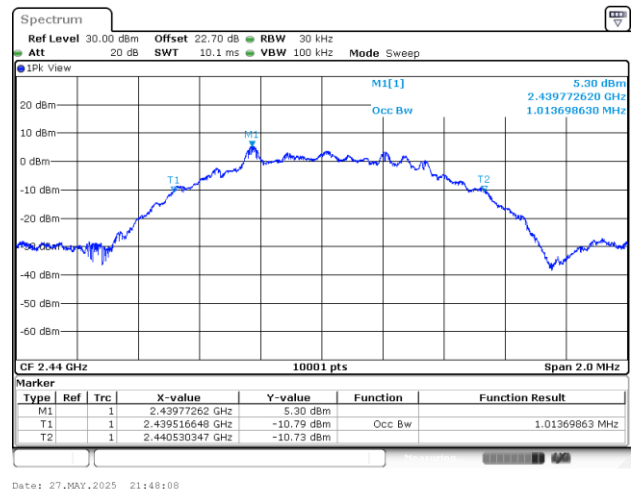


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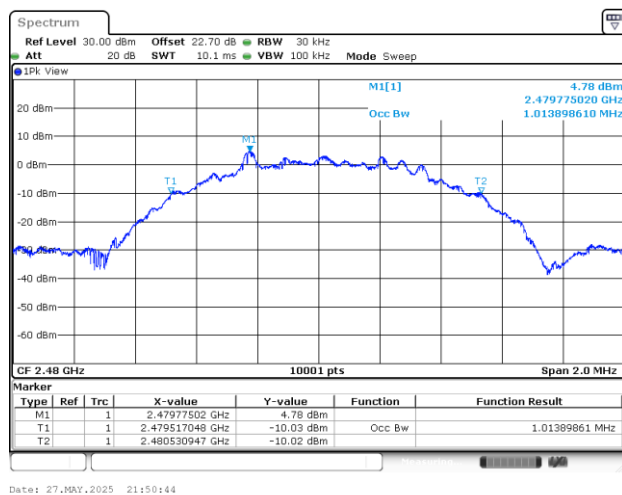
99% Occupied Bandwidth Plot on Channel 0



99% Occupied Bandwidth Plot on Channel 19

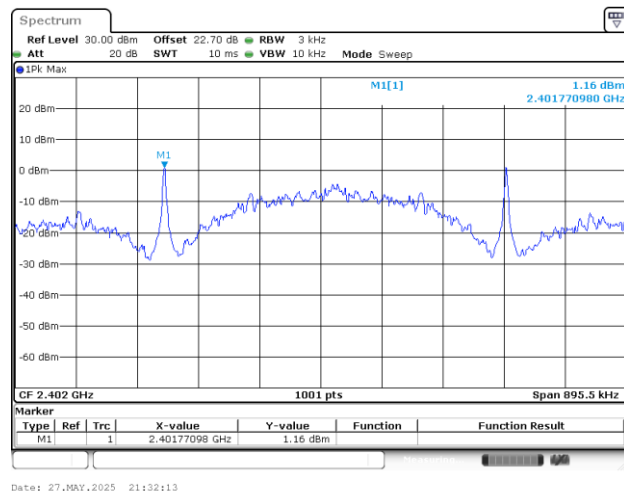
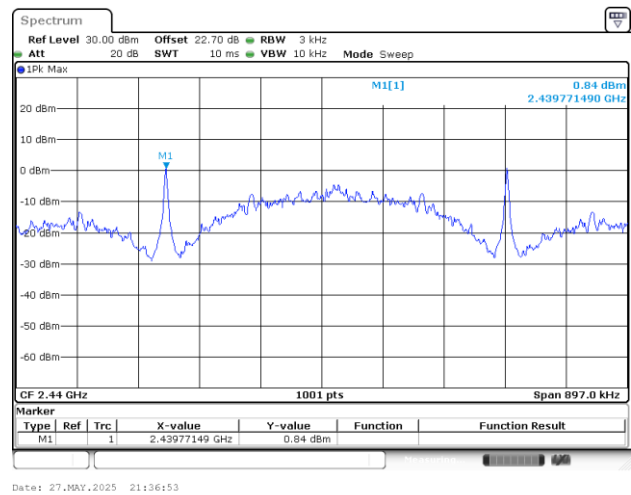
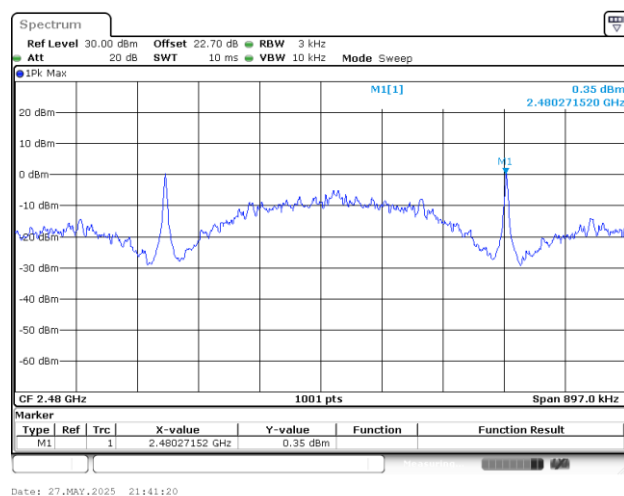


99% Occupied Bandwidth Plot on Channel 39



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

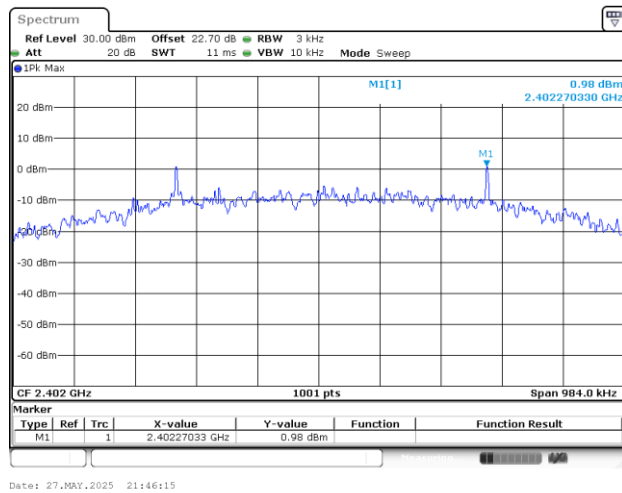
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Power Density (dBm/3kHz) Plot Channel 0**Power Density (dBm/3kHz) Plot Channel 19****Power Density (dBm/3kHz) Plot Channel 39**

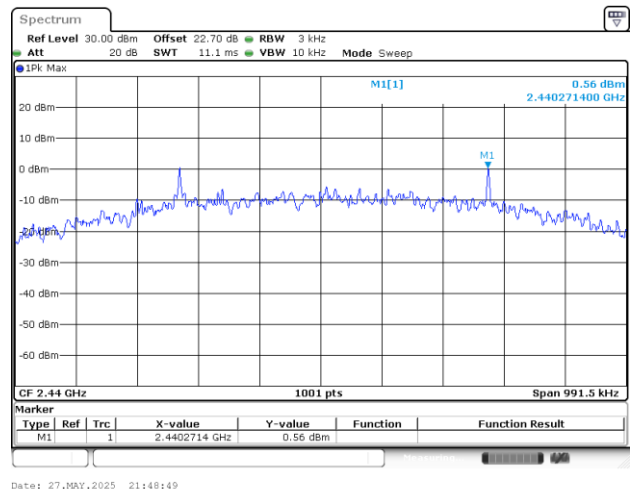


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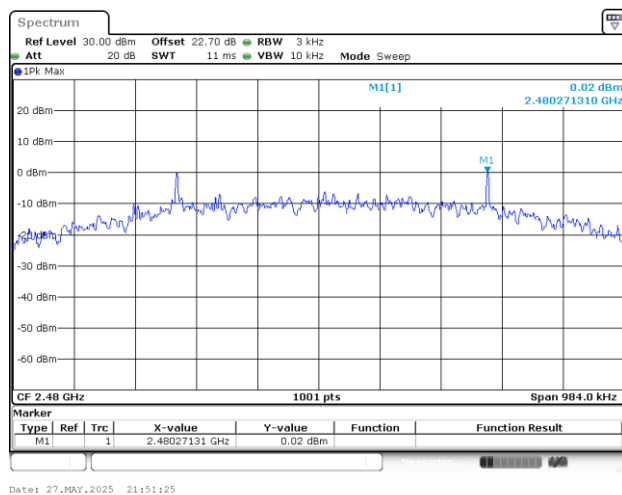
Power Density (dBm/3kHz) Plot Channel 0

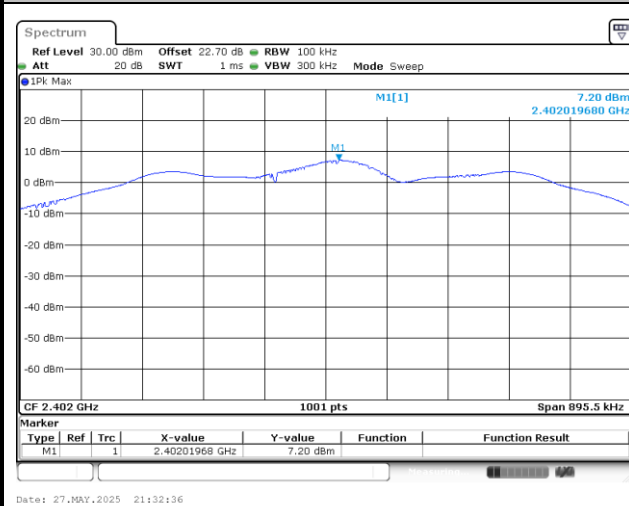
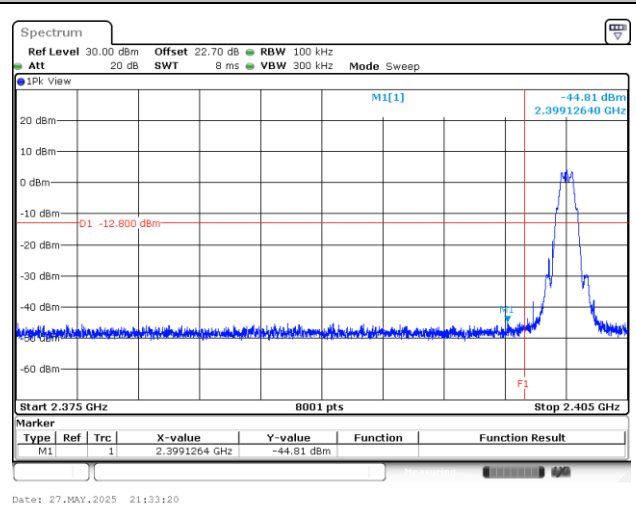
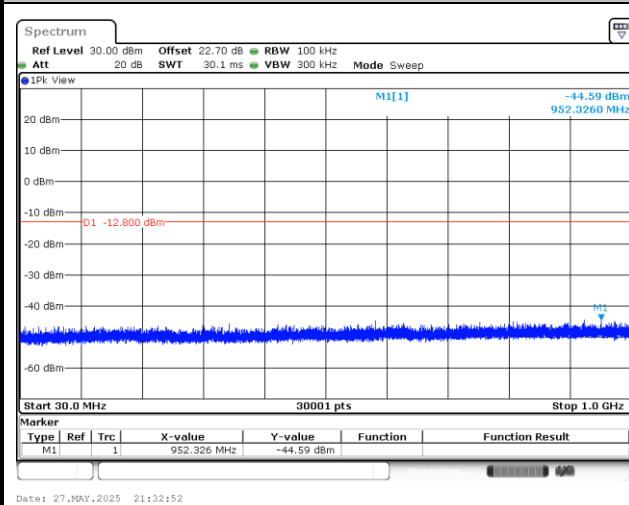
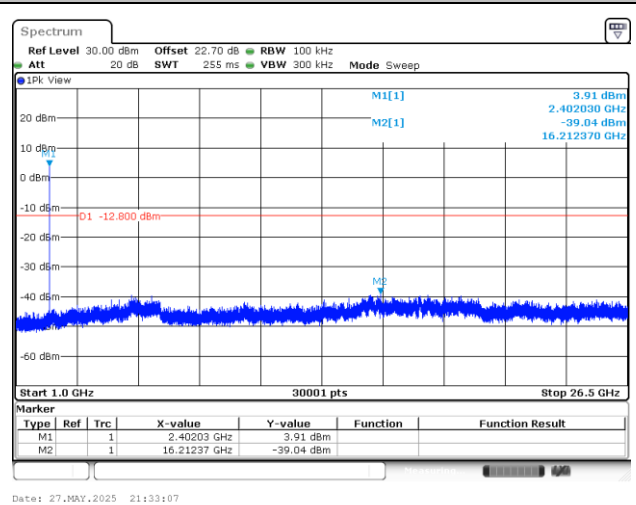


Power Density (dBm/3kHz) Plot Channel 19



Power Density (dBm/3kHz) Plot Channel 39

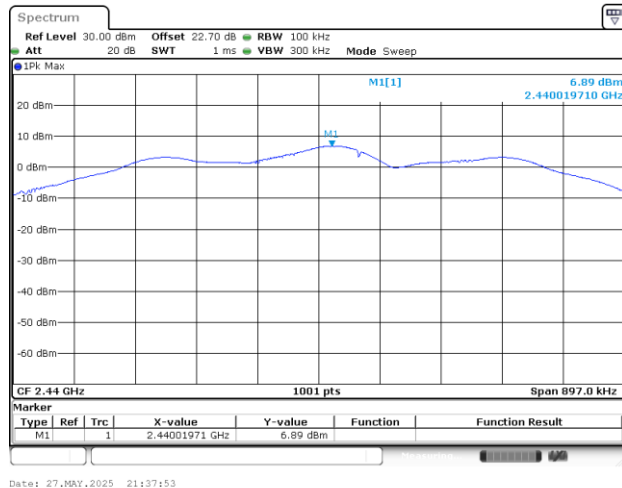


Band Edge and Conducted Spurious Emission
<125kbps>
Channel 0
100kHz PSD reference Level Plot

Plot on Channel 0

Spurious Emission 30MHz~1GHz Plot

Spurious Emission 1GHz~26.5GHz Plot


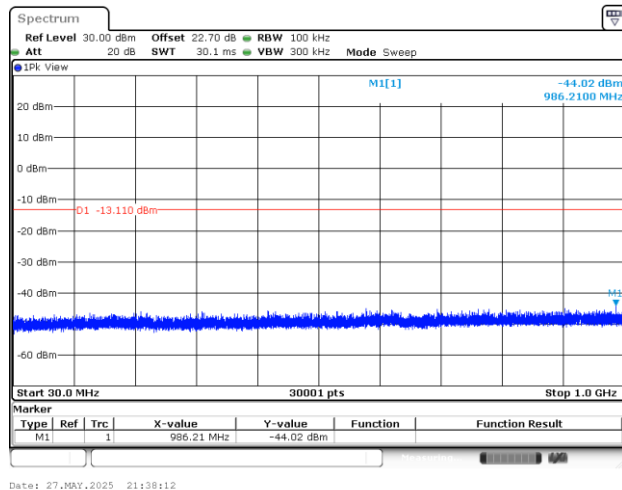


Channel 19

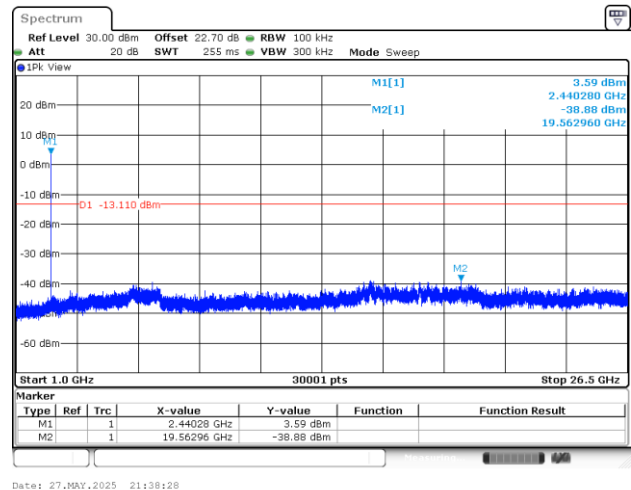
100kHz PSD reference Level Plot



Spurious Emission 30MHz~1GHz Plot



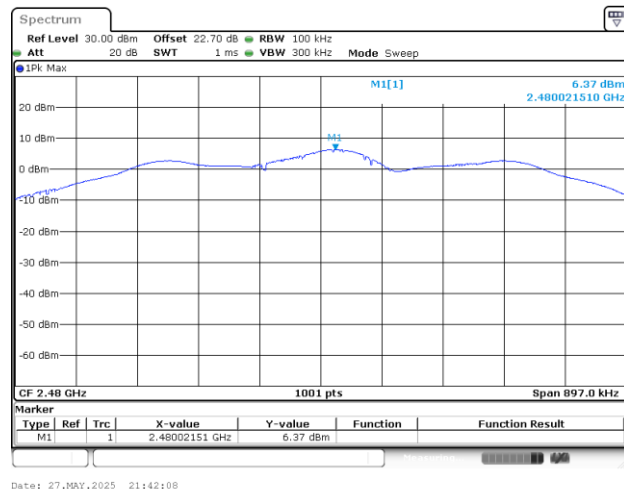
Spurious Emission 1GHz~26.5GHz Plot



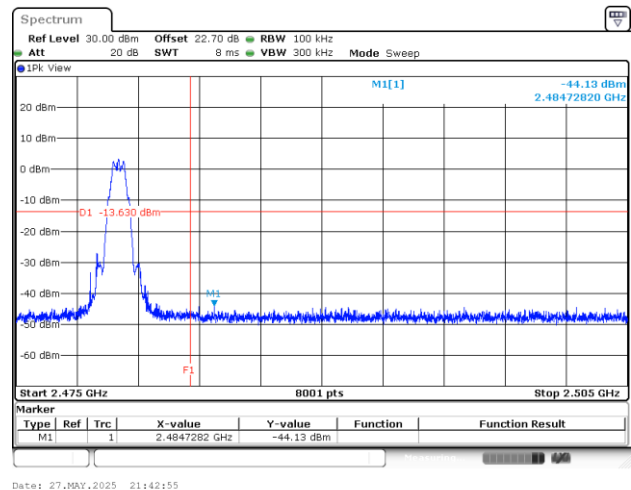


Channel 39

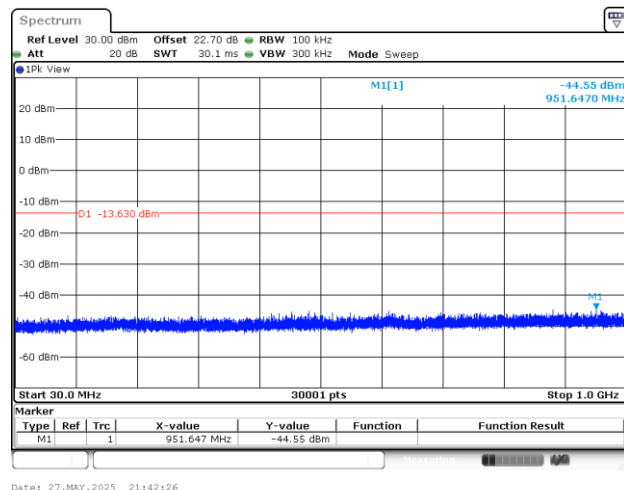
100kHz PSD reference Level Plot



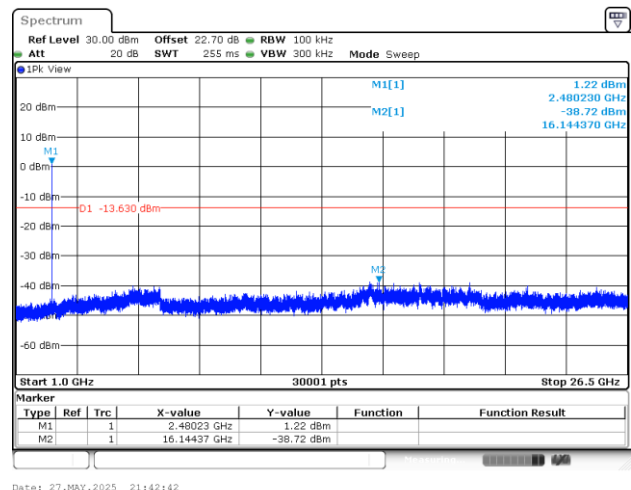
Plot on Channel 39



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot

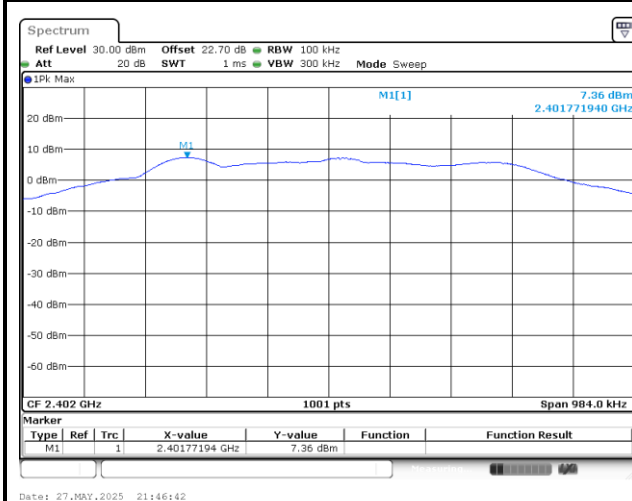




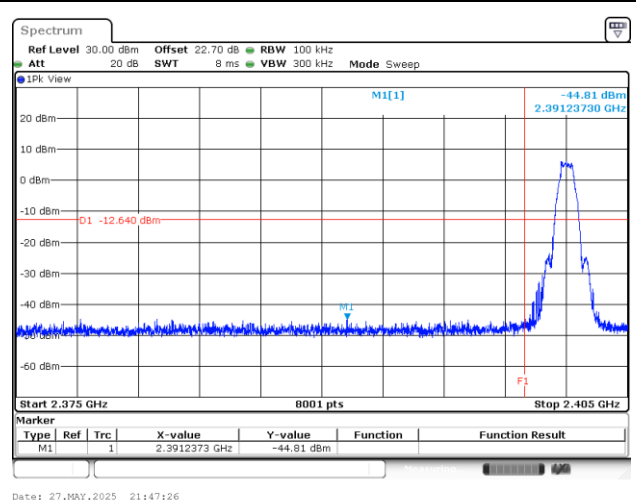
<500kbps>

Channel 0

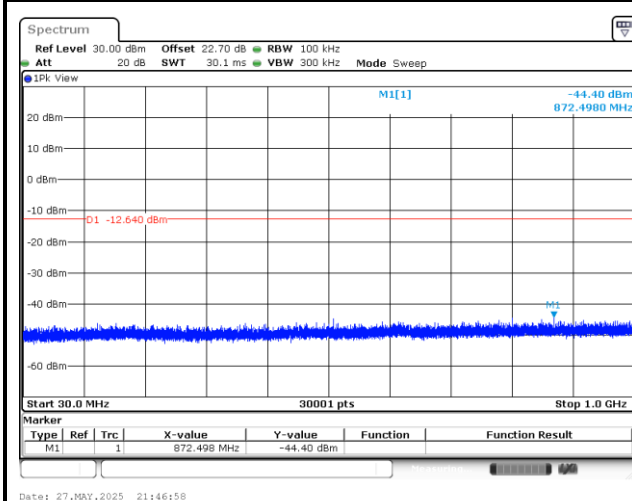
100kHz PSD reference Level Plot



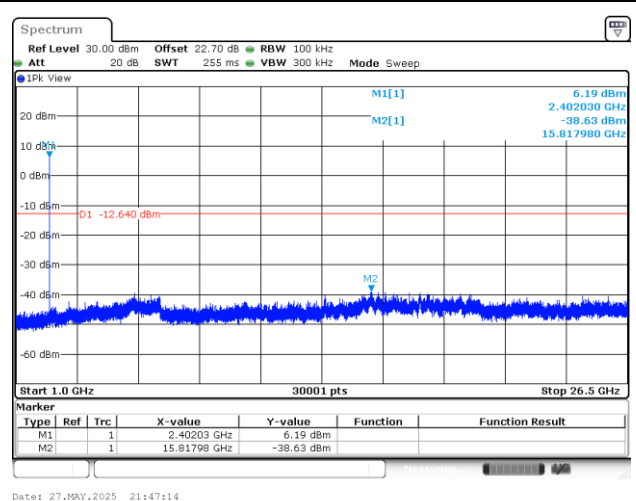
Plot on Channel 0



Spurious Emission 30MHz~1GHz Plot



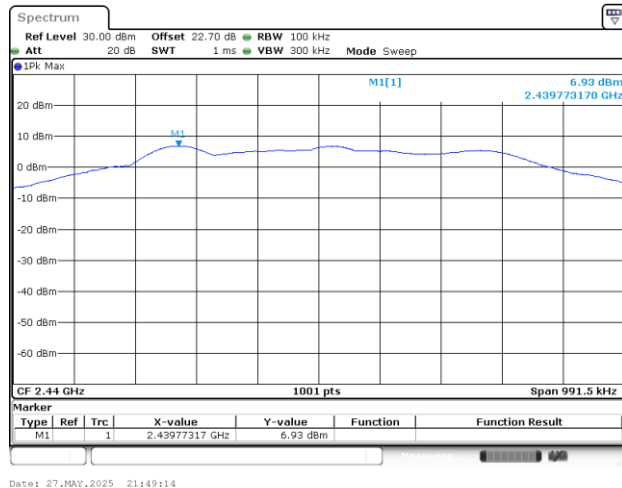
Spurious Emission 1GHz~26.5GHz Plot



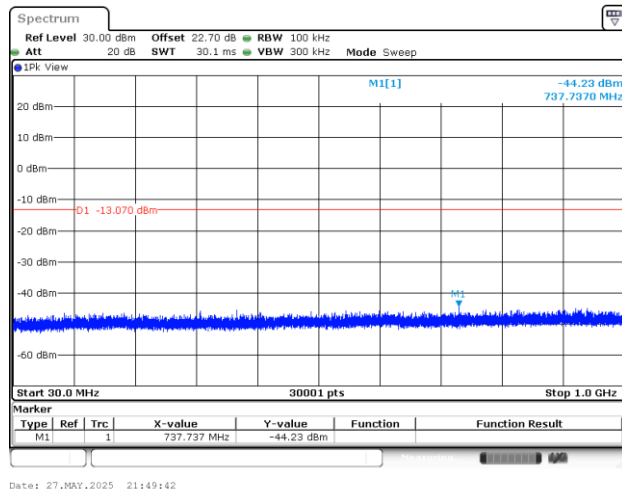


Channel 19

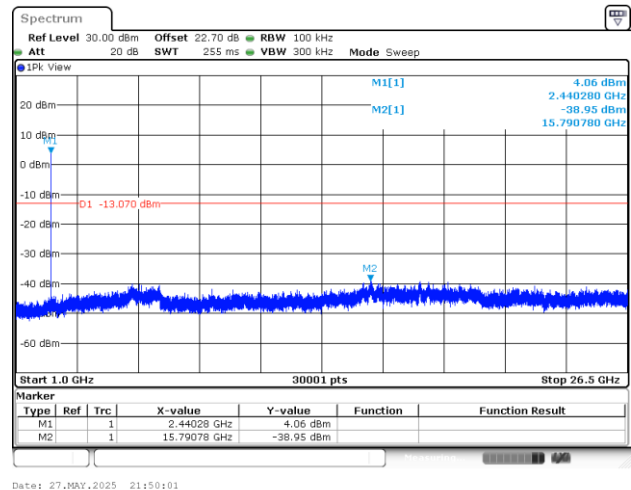
100kHz PSD reference Level Plot



Spurious Emission 30MHz~1GHz Plot



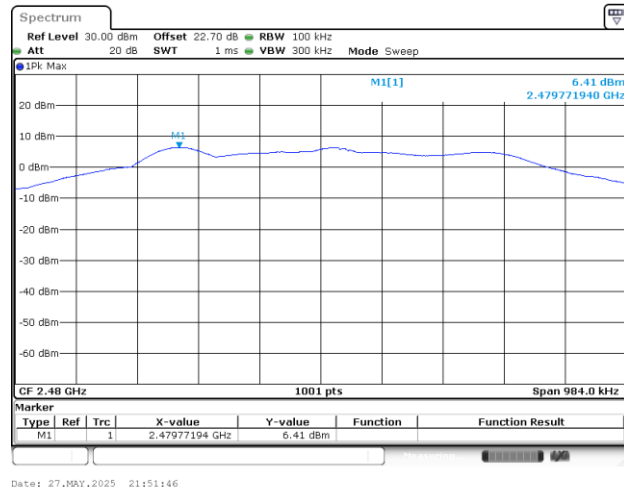
Spurious Emission 1GHz~26.5GHz Plot



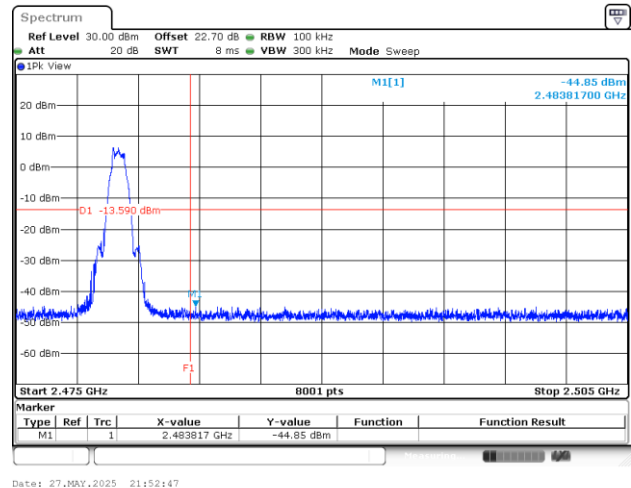


Channel 39

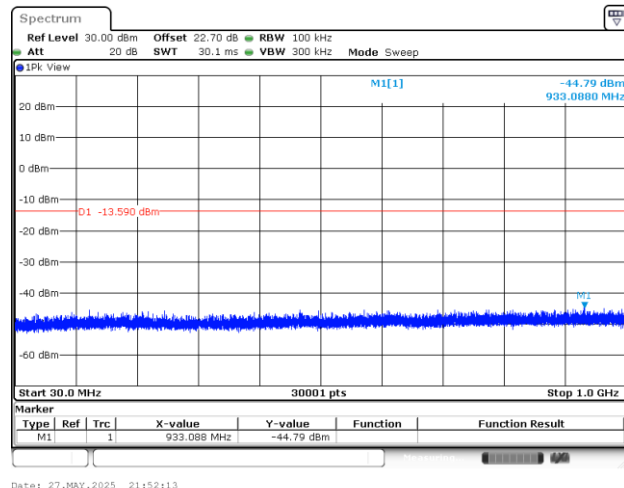
100kHz PSD reference Level Plot



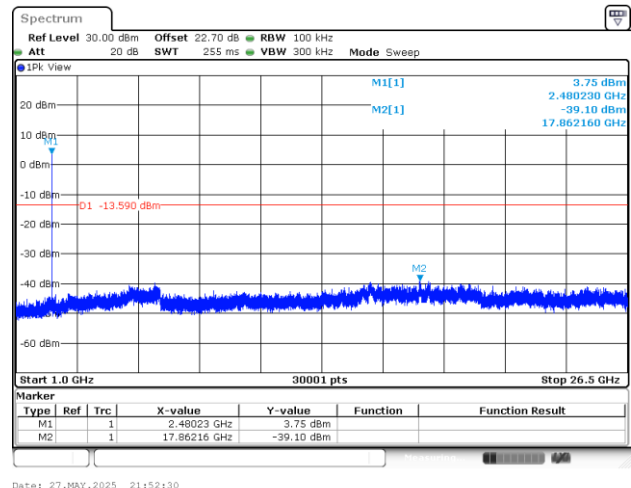
Plot on Channel 39



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot



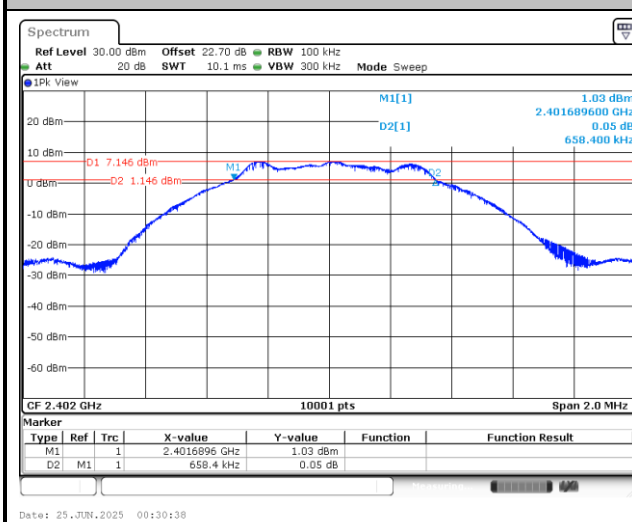


Number of TX = 1, Ant. 1 (Measured)

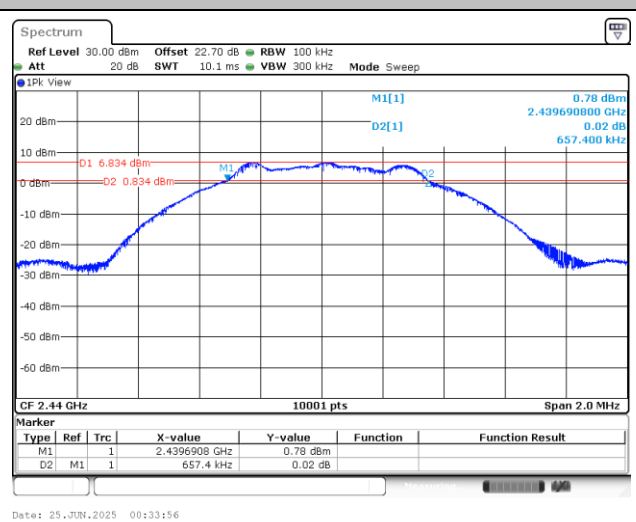
6dB Bandwidth

<1Mbps>

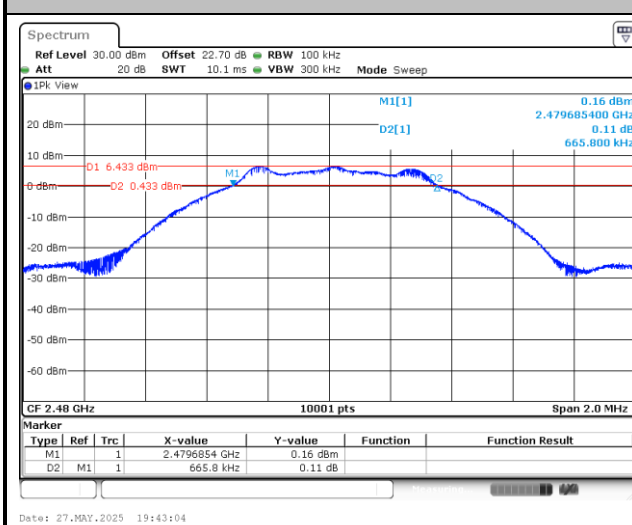
6 dB Bandwidth Plot on Channel 0



6 dB Bandwidth Plot on Channel 19



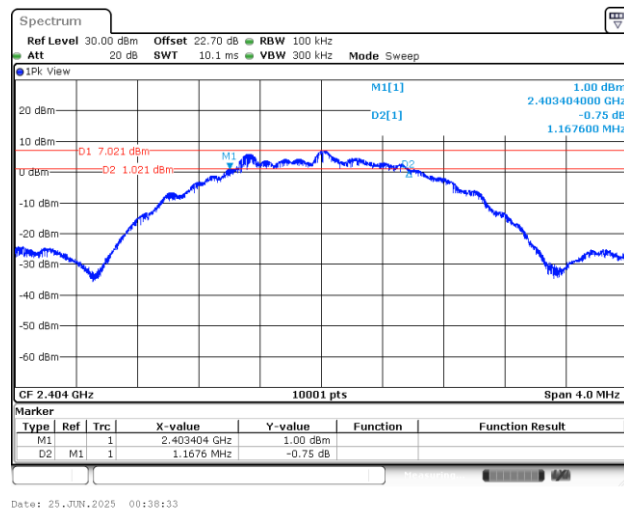
6 dB Bandwidth Plot on Channel 39



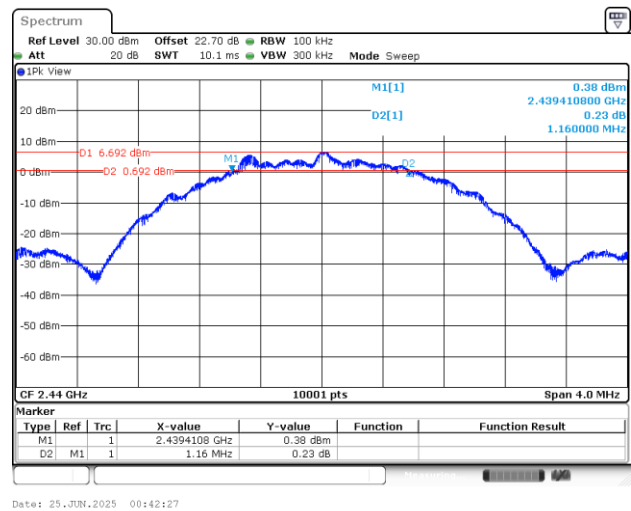


<2Mbps>

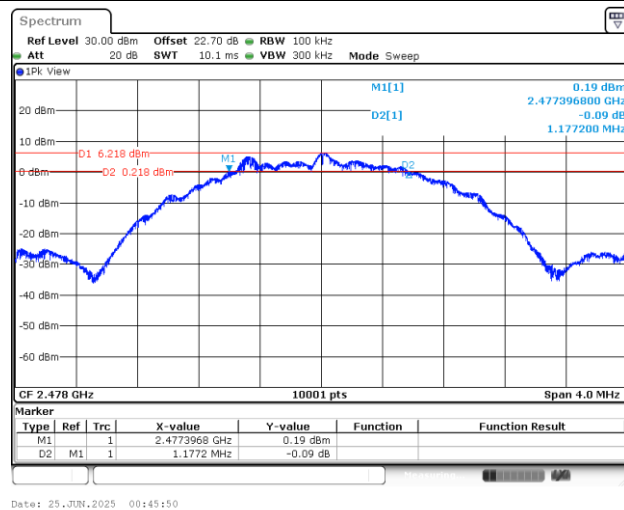
6 dB Bandwidth Plot on Channel 01



6 dB Bandwidth Plot on Channel 19

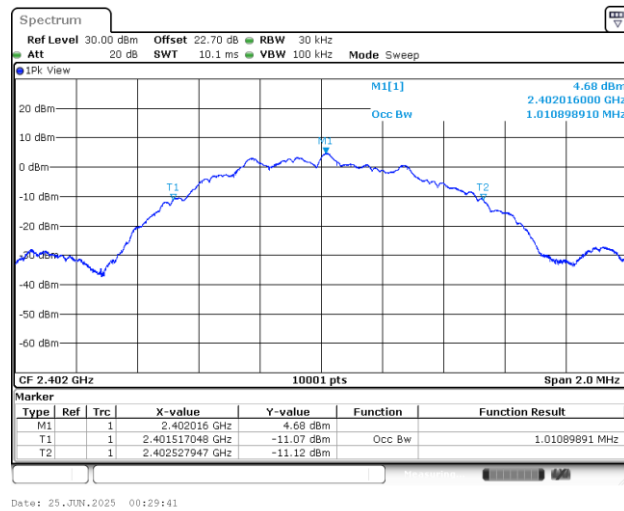
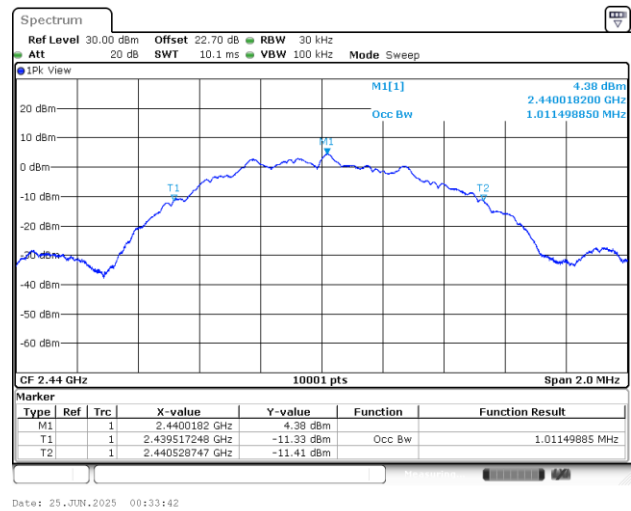
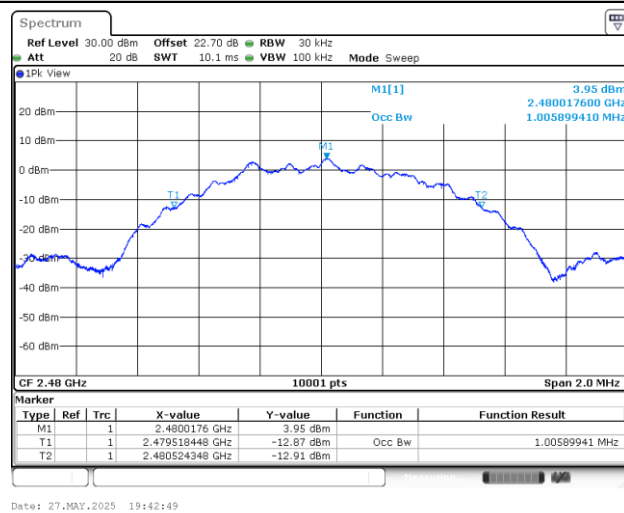


6 dB Bandwidth Plot on Channel 38



**99% Occupied Bandwidth**

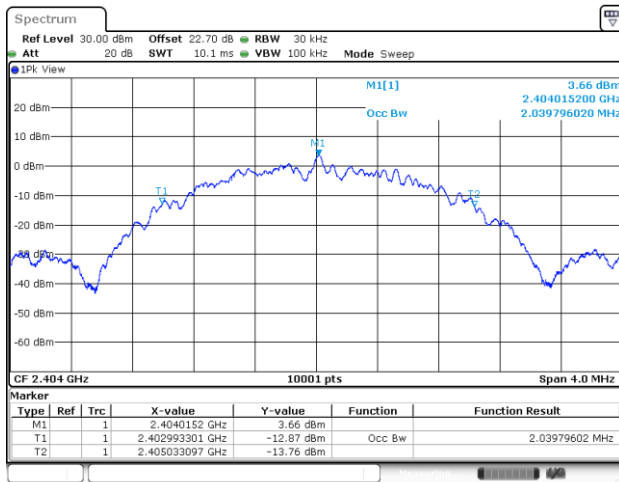
<1Mbps>

99% Occupied Bandwidth Plot on Channel 0**99% Occupied Bandwidth Plot on Channel 19****99% Occupied Bandwidth Plot on Channel 39**

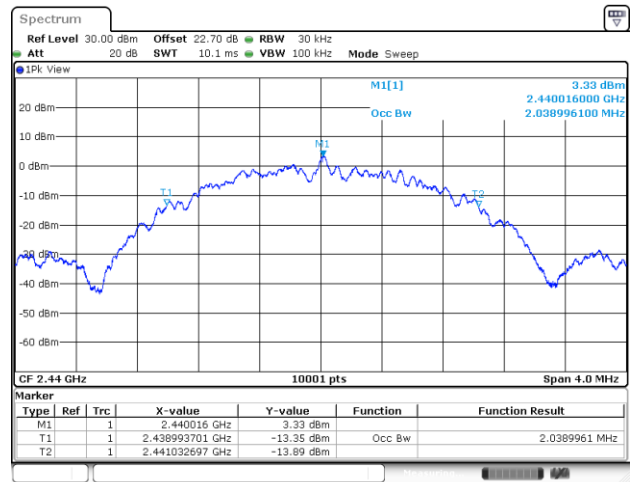


<2Mbps>

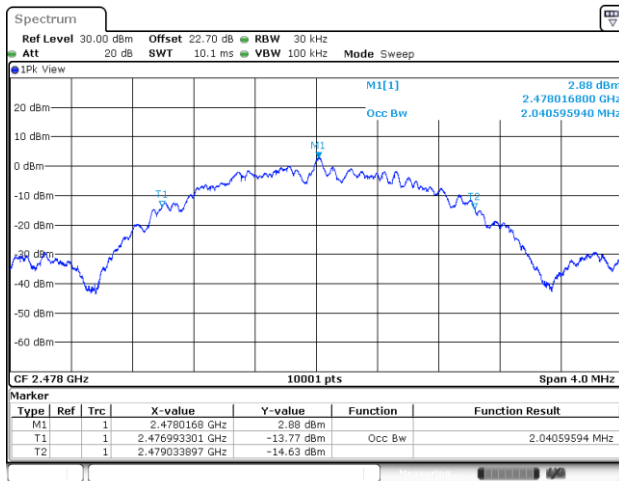
99% Occupied Bandwidth Plot on Channel 01



99% Occupied Bandwidth Plot on Channel 19

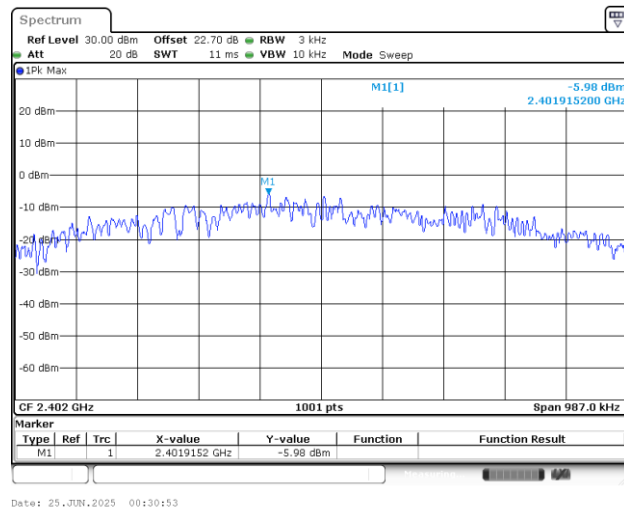
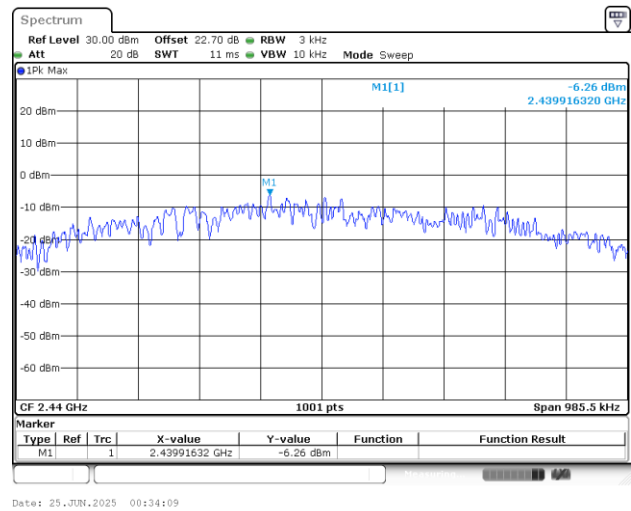
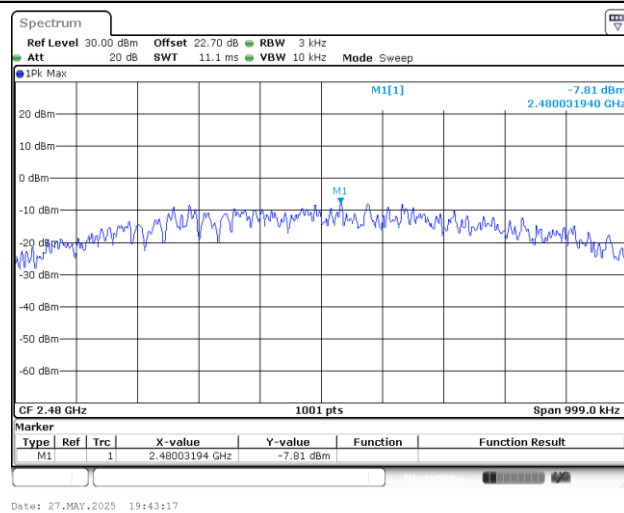


99% Occupied Bandwidth Plot on Channel 38



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

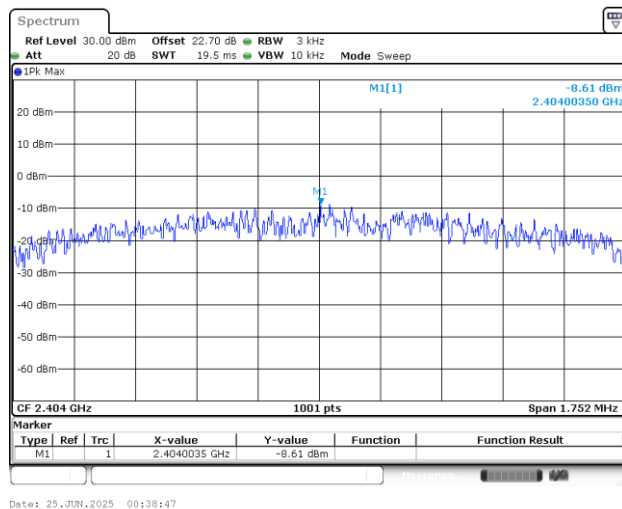
<1Mbps>

Power Density (dBm/3kHz) Plot Channel 0**Power Density (dBm/3kHz) Plot Channel 19****Power Density (dBm/3kHz) Plot Channel 39**

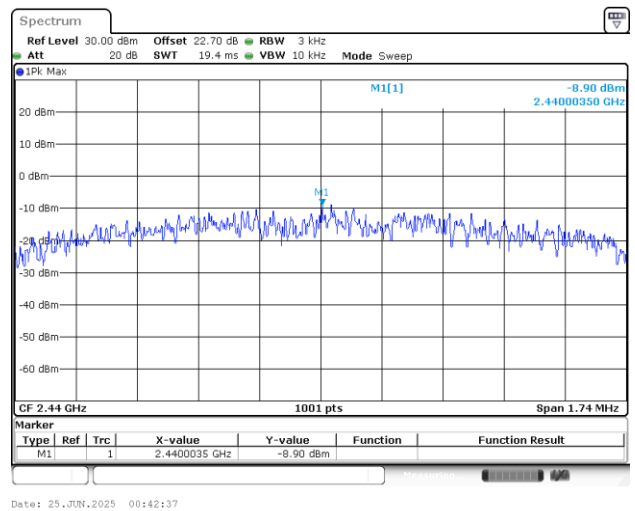


<2Mbps>

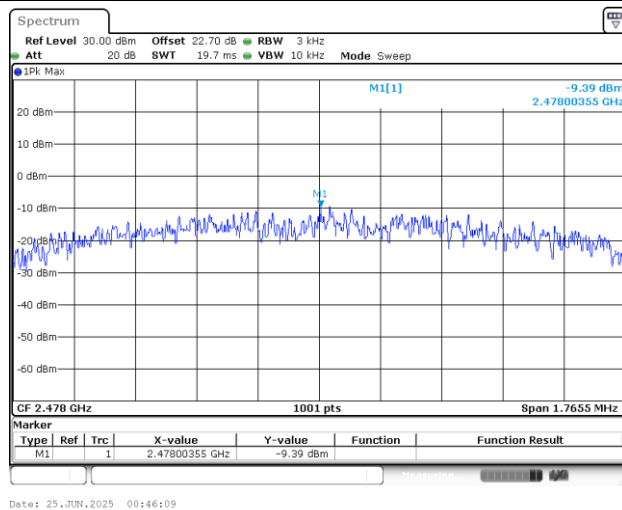
Power Density (dBm/3kHz) Plot Channel 01



Power Density (dBm/3kHz) Plot Channel 19

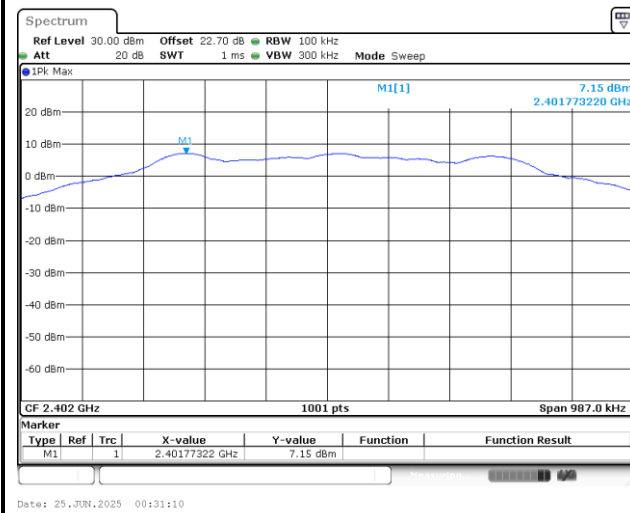
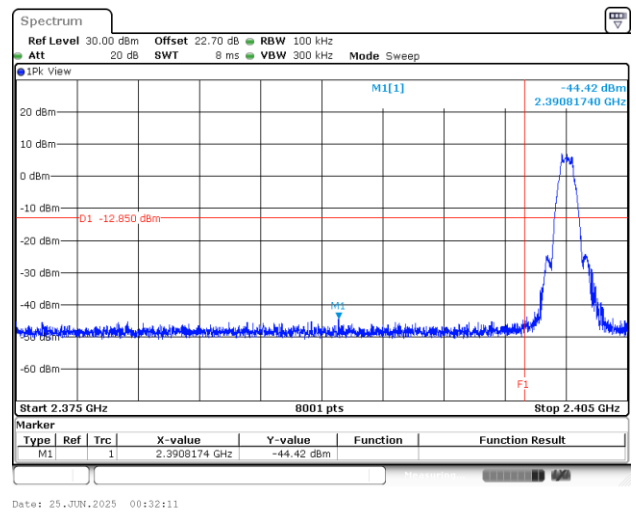
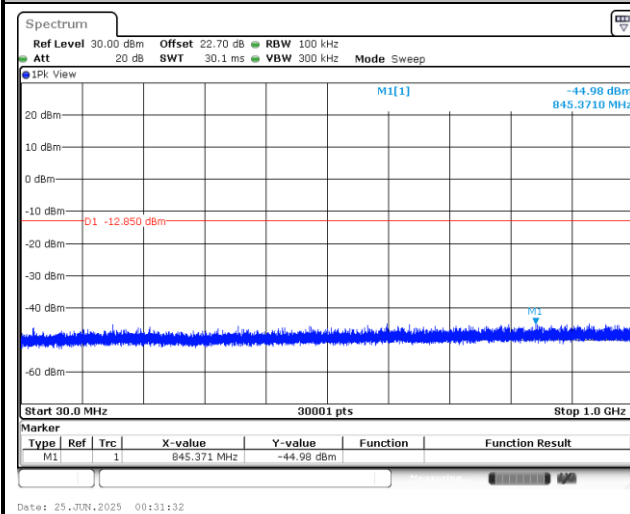
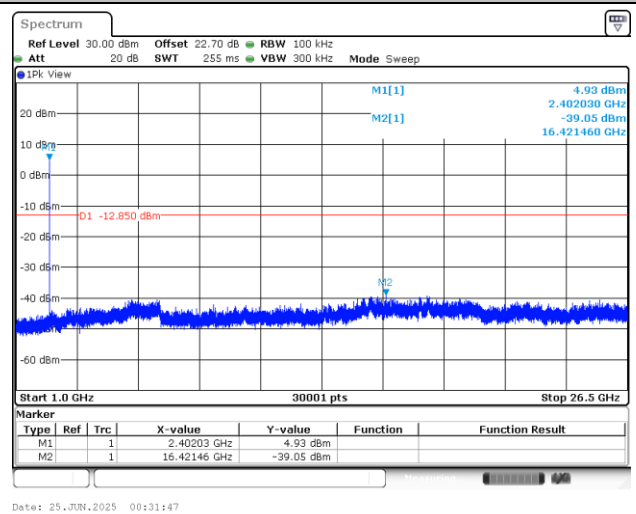


Power Density (dBm/3kHz) Plot Channel 38



**Band Edge and Conducted Spurious Emission**

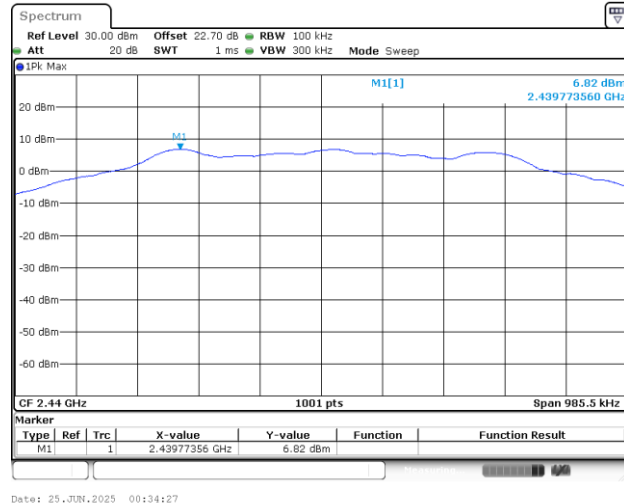
<1Mbps>

Channel 0**100kHz PSD reference Level Plot****Plot on Channel 0****Spurious Emission 30MHz~1GHz Plot****Spurious Emission 1GHz~26.5GHz Plot**

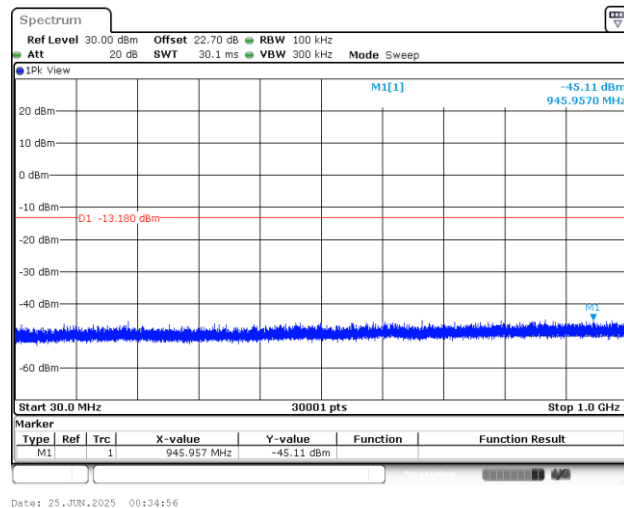


Channel 19

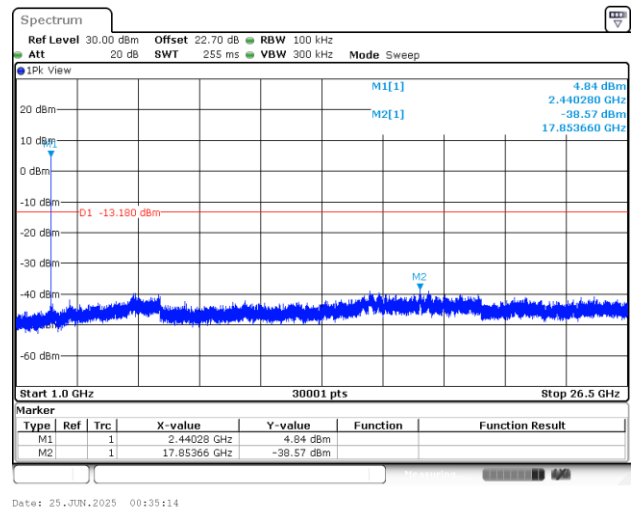
100kHz PSD reference Level Plot



Spurious Emission 30MHz~1GHz Plot



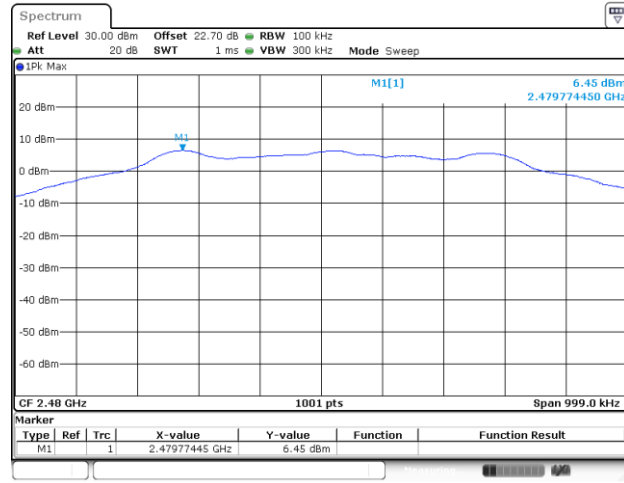
Spurious Emission 1GHz~26.5GHz Plot



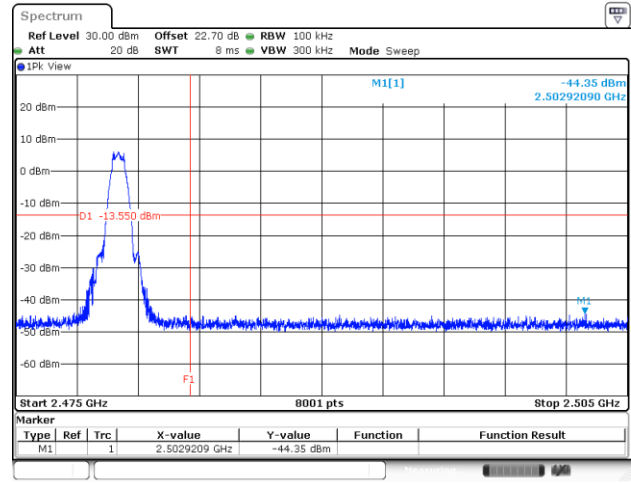


Channel 39

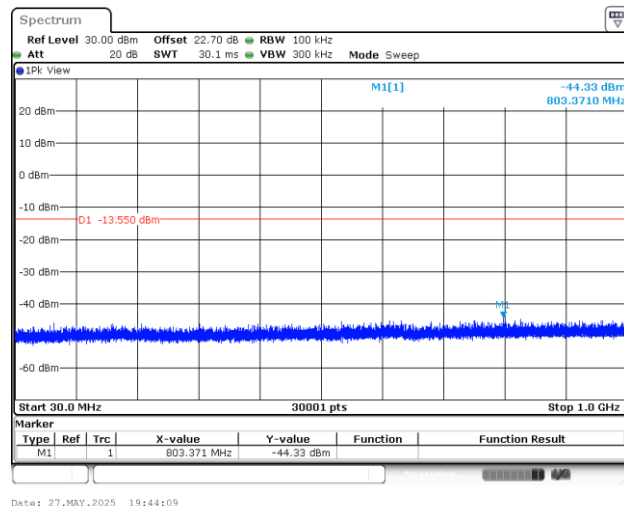
100kHz PSD reference Level Plot



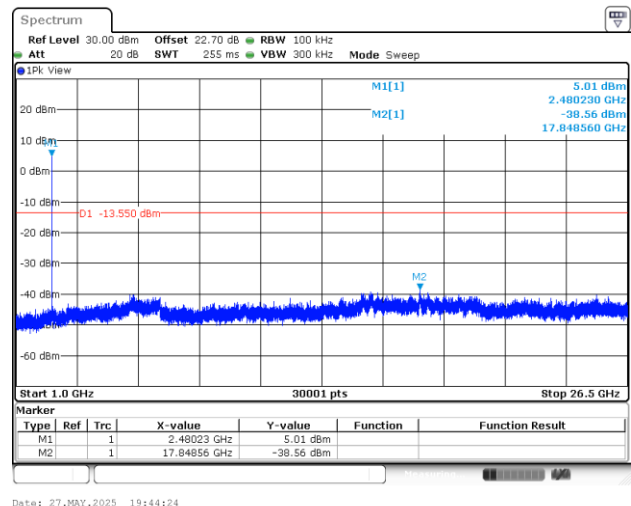
Plot on Channel 39



Spurious Emission 30MHz~1GHz Plot

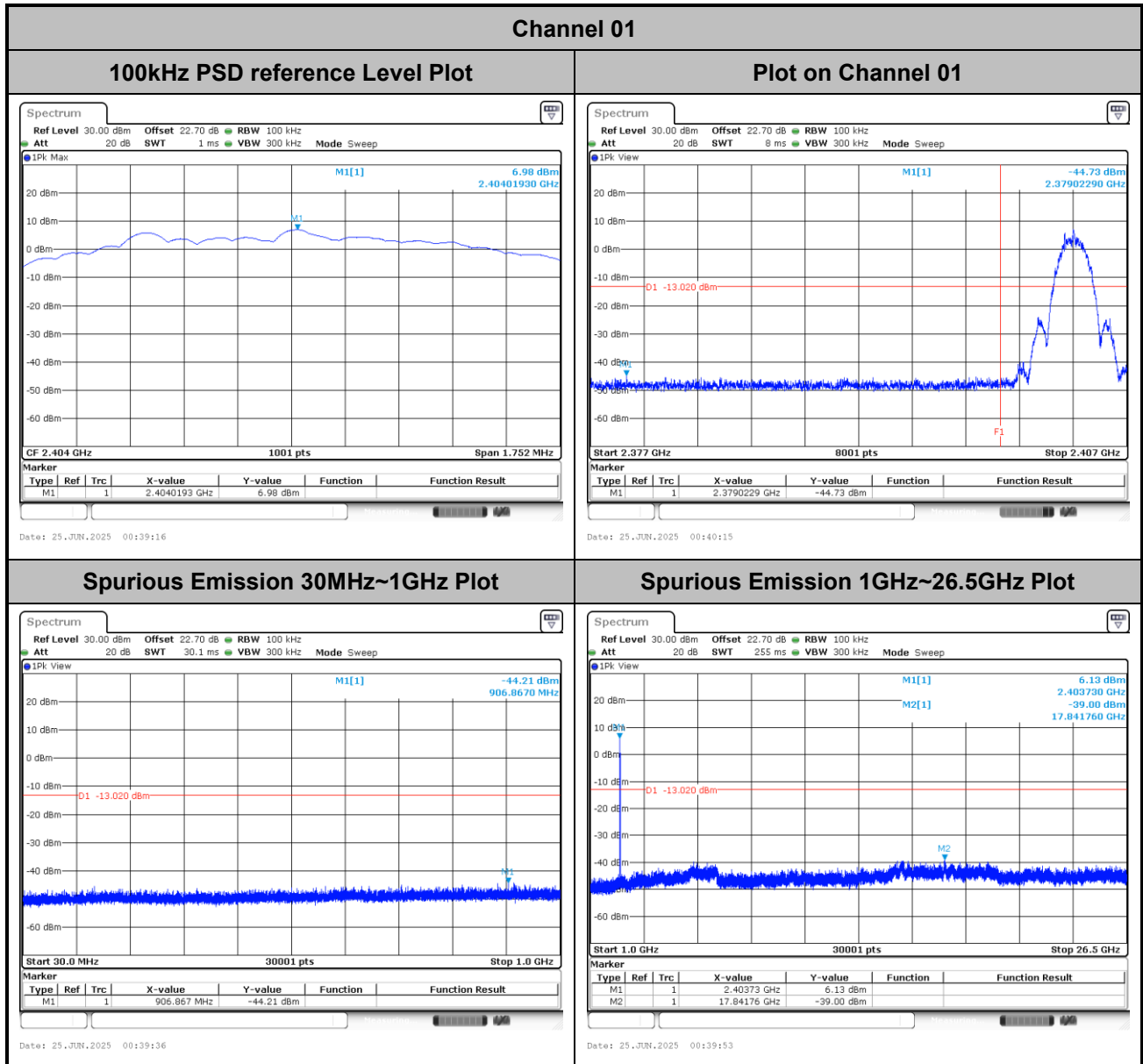


Spurious Emission 1GHz~26.5GHz Plot



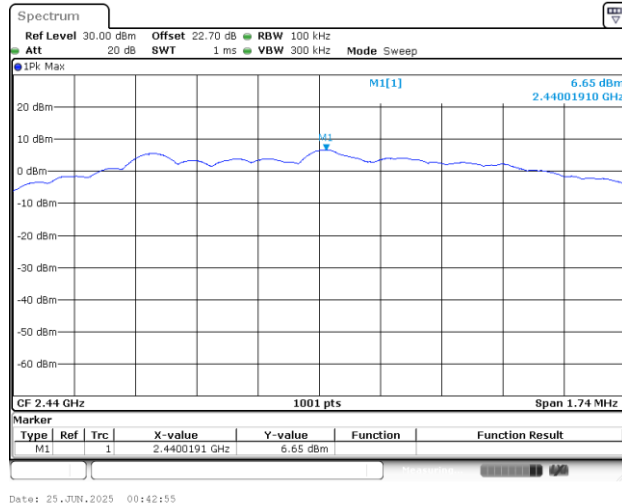


<2Mbps>

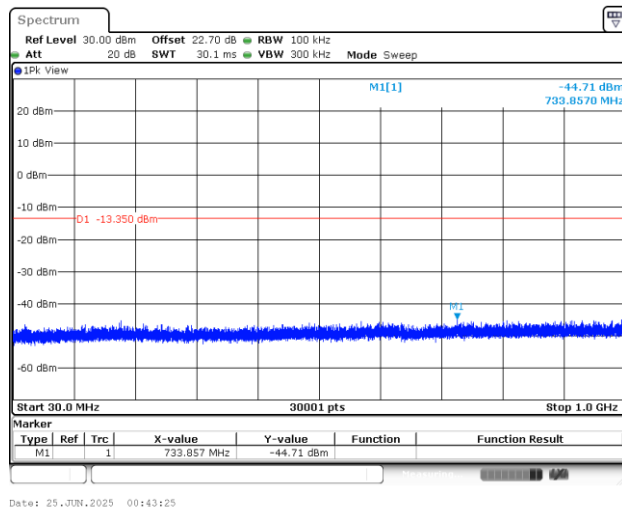


Channel 19

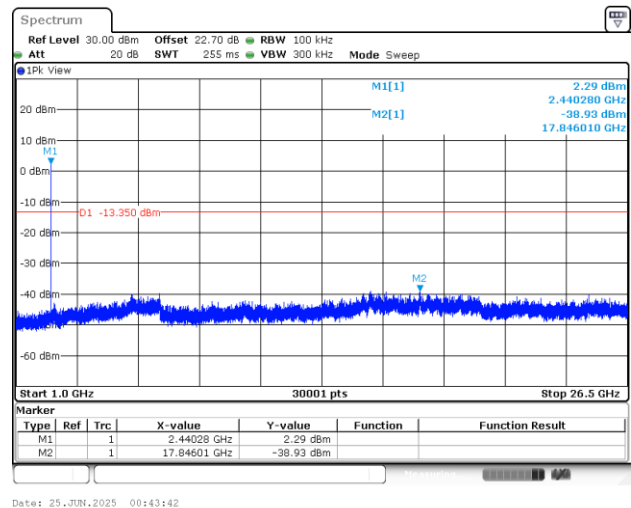
100kHz PSD reference Level Plot



Spurious Emission 30MHz~1GHz Plot



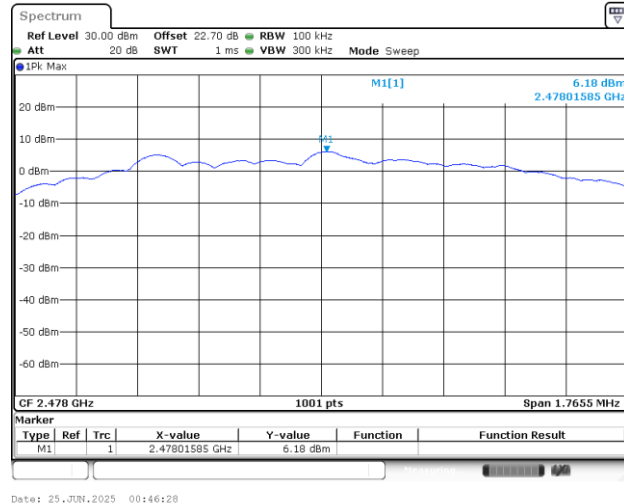
Spurious Emission 1GHz~26.5GHz Plot



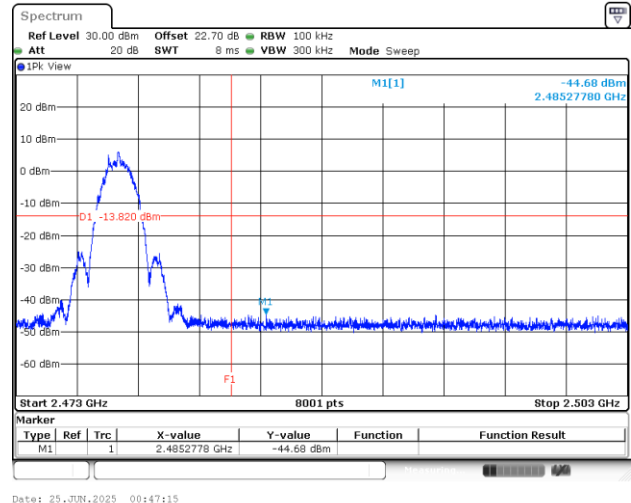


Channel 38

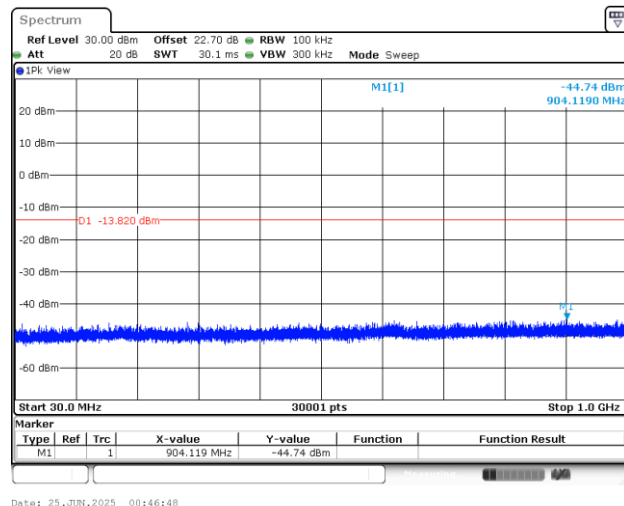
100kHz PSD reference Level Plot



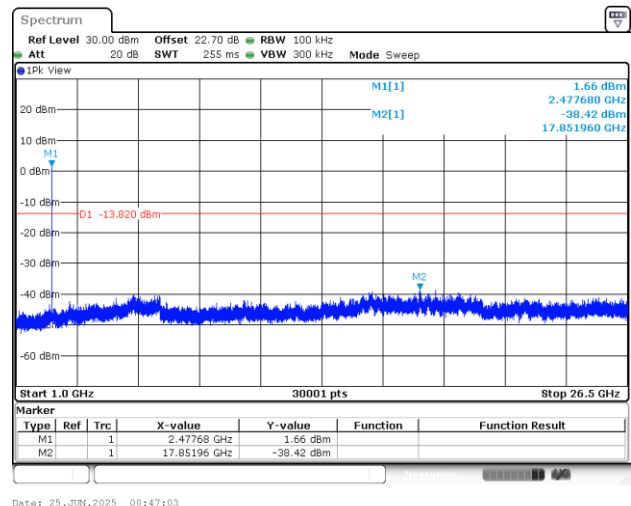
Plot on Channel 38



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot





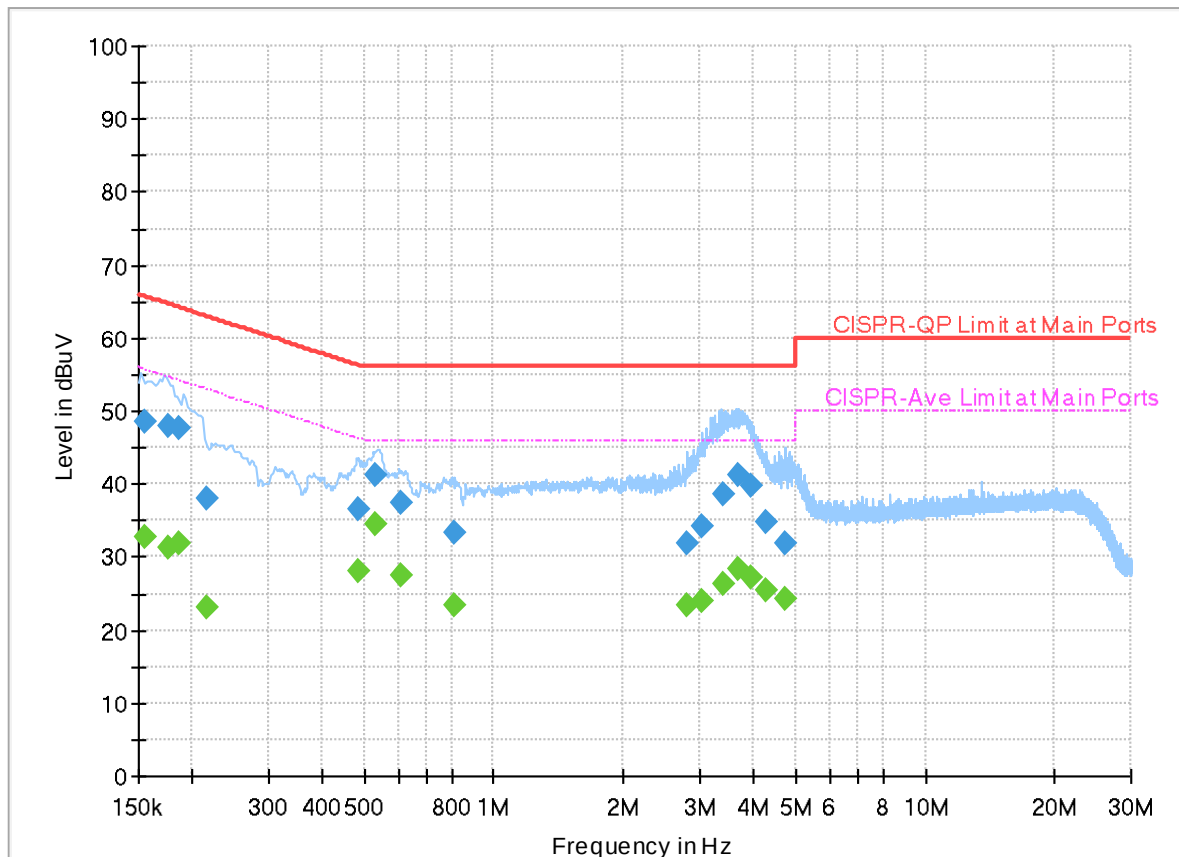
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	23.5 ~ 24.7°C
		Relative Humidity :	52.8 ~ 59.1%

EUT Information

Report NO : 550509
Test Mode : Mode 1
Test Voltage : Power From System
Phase : Line

Full Spectrum



Final_Result

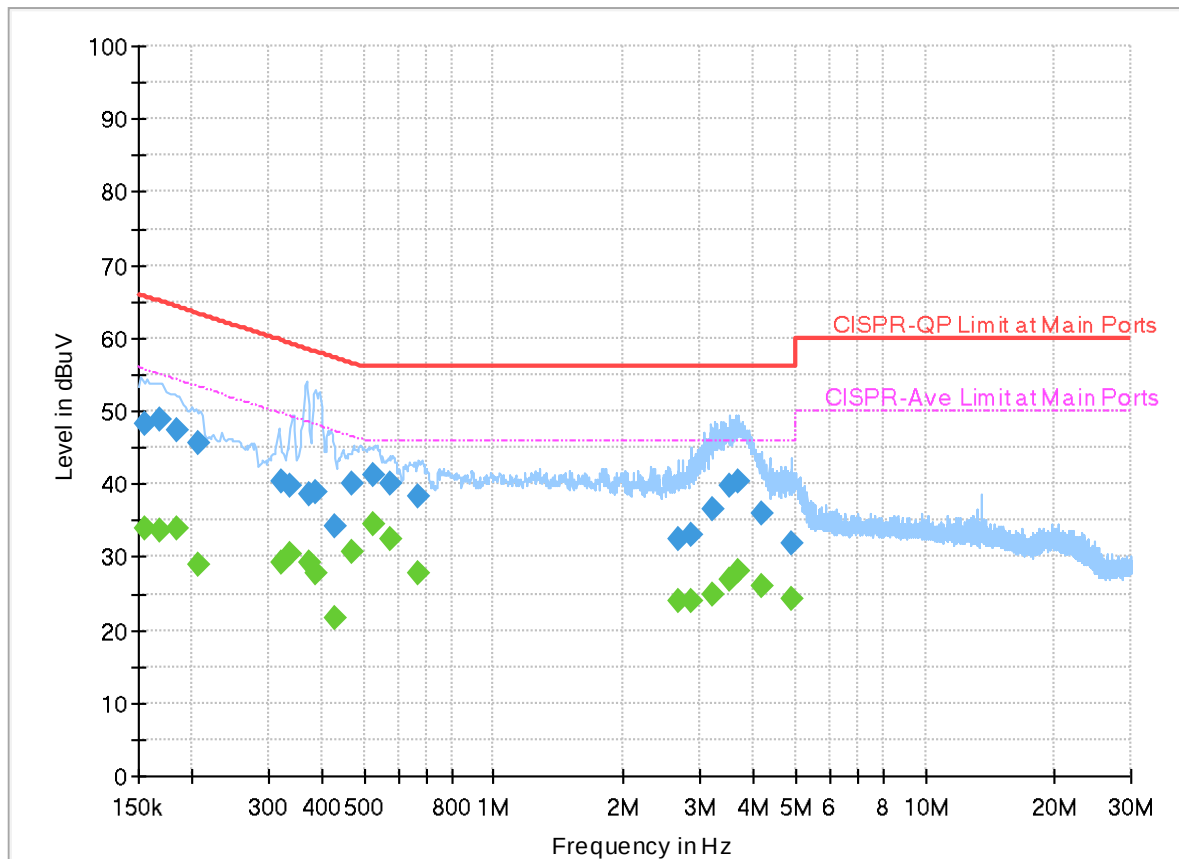
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.154500	---	32.78	55.75	22.97	L1	FLO	20.0
0.154500	48.52	---	65.75	17.23	L1	FLO	20.0
0.176730	---	31.31	54.64	23.33	L1	FLO	20.0
0.176730	47.99	---	64.64	16.65	L1	FLO	20.0
0.186000	---	31.75	54.21	22.46	L1	FLO	20.0
0.186000	47.59	---	64.21	16.62	L1	FLO	20.0
0.215250	---	23.20	53.00	29.80	L1	FLO	20.0
0.215250	38.12	---	63.00	24.88	L1	FLO	20.0
0.483090	---	28.13	46.29	18.16	L1	FLO	20.0
0.483090	36.50	---	56.29	19.79	L1	FLO	20.0
0.532500	---	34.40	46.00	11.60	L1	FLO	20.0
0.532500	41.19	---	56.00	14.81	L1	FLO	20.0
0.609000	---	27.62	46.00	18.38	L1	FLO	20.0
0.609000	37.32	---	56.00	18.68	L1	FLO	20.0
0.809250	---	23.50	46.00	22.50	L1	FLO	20.0
0.809250	33.31	---	56.00	22.69	L1	FLO	20.0
2.811660	---	23.46	46.00	22.54	L1	FLO	20.1
2.811660	31.95	---	56.00	24.05	L1	FLO	20.1
3.039180	---	23.90	46.00	22.10	L1	FLO	20.1

3.039180	34.27	---	56.00	21.73	L1	FLO	20.1
3.386850	---	26.25	46.00	19.75	L1	FLO	20.1
3.386850	38.67	---	56.00	17.33	L1	FLO	20.1
3.678000	---	28.33	46.00	17.67	L1	FLO	20.1
3.678000	41.21	---	56.00	14.79	L1	FLO	20.1
3.968790	---	27.25	46.00	18.75	L1	FLO	20.1
3.968790	39.74	---	56.00	16.26	L1	FLO	20.1
4.278120	---	25.35	46.00	20.65	L1	FLO	20.1
4.278120	34.91	---	56.00	21.09	L1	FLO	20.1
4.746750	---	24.30	46.00	21.70	L1	FLO	20.2
4.746750	31.93	---	56.00	24.07	L1	FLO	20.2

EUT Information

Report NO : 550509
 Test Mode : Mode 1
 Test Voltage : Power From System
 Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.155400	---	33.85	55.71	21.86	N	FLO	20.0
0.155400	48.39	---	65.71	17.32	N	FLO	20.0
0.168000	---	33.50	55.06	21.56	N	FLO	20.0
0.168000	48.78	---	65.06	16.28	N	FLO	20.0
0.183390	---	34.02	54.33	20.31	N	FLO	20.0
0.183390	47.46	---	64.33	16.87	N	FLO	20.0
0.206700	---	28.97	53.34	24.37	N	FLO	20.0
0.206700	45.56	---	63.34	17.78	N	FLO	20.0
0.321000	---	29.31	49.68	20.37	N	FLO	20.0
0.321000	40.31	---	59.68	19.37	N	FLO	20.0
0.337650	---	30.47	49.26	18.79	N	FLO	20.0
0.337650	39.66	---	59.26	19.60	N	FLO	20.0
0.372750	---	29.18	48.44	19.26	N	FLO	20.0
0.372750	38.47	---	58.44	19.97	N	FLO	20.0
0.385530	---	27.79	48.16	20.37	N	FLO	20.0
0.385530	38.85	---	58.16	19.31	N	FLO	20.0
0.426750	---	21.73	47.32	25.59	N	FLO	20.0
0.426750	34.10	---	57.32	23.22	N	FLO	20.0
0.467160	---	30.71	46.56	15.85	N	FLO	20.0

0.467160	39.94	---	56.56	16.62	N	FLO	20.0
0.528000	---	34.44	46.00	11.56	N	FLO	20.0
0.528000	41.35	---	56.00	14.65	N	FLO	20.0
0.578490	---	32.43	46.00	13.57	N	FLO	20.0
0.578490	40.01	---	56.00	15.99	N	FLO	20.0
0.670380	---	27.88	46.00	18.12	N	FLO	20.0
0.670380	38.42	---	56.00	17.58	N	FLO	20.0
2.679000	---	23.88	46.00	22.12	N	FLO	20.1
2.679000	32.50	---	56.00	23.50	N	FLO	20.1
2.872140	---	24.02	46.00	21.98	N	FLO	20.1
2.872140	33.06	---	56.00	22.94	N	FLO	20.1
3.200280	---	24.84	46.00	21.16	N	FLO	20.1
3.200280	36.41	---	56.00	19.59	N	FLO	20.1
3.518250	---	26.97	46.00	19.03	N	FLO	20.1
3.518250	39.77	---	56.00	16.23	N	FLO	20.1
3.700590	---	28.04	46.00	17.96	N	FLO	20.1
3.700590	40.46	---	56.00	15.54	N	FLO	20.1
4.163910	---	26.10	46.00	19.90	N	FLO	20.1
4.163910	35.94	---	56.00	20.06	N	FLO	20.1
4.884810	---	24.15	46.00	21.85	N	FLO	20.2
4.884810	31.86	---	56.00	24.14	N	FLO	20.2



Appendix C. Conducted Spurious Emission

Test Engineer :	Kai Liao	Temperature :	22.3~24.9°C
		Relative Humidity :	52.5~72.4%

2.4GHz 2400~2483.5MHz

BLE (Band Edge)

BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 1Mbps CH 00 2402MHz		2386.96	-34.65	-13.45	-21.2	-38.36	3	0.71	0	0	P
		2382.28	-46.17	-4.97	-41.2	-49.88	3	0.71	0	0	A
	*	2402	22.24	-	-	18.52	3	0.72	0	0	P
	*	2402	21.55	-	-	17.83	3	0.72	0	0	A
BLE 1Mbps CH 19 2440MHz		2380.7	-38.36	-17.16	-21.2	-42.07	3	0.71	0	0	P
		2383.5	-50.45	-9.25	-41.2	-54.16	3	0.71	0	0	A
	*	2440	21.5	-	-	17.78	3	0.72	0	0	P
	*	2440	20.48	-	-	16.76	3	0.72	0	0	A
		2488.17	-39.18	-17.98	-21.2	-42.89	3	0.71	0	0	P
		2485.09	-50.02	-8.82	-41.2	-53.73	3	0.71	0	0	A
BLE 1Mbps CH 39 2480MHz	*	2480	9.87	-	-	6.16	3	0.71	0	0	P
	*	2480	9.27	-	-	5.56	3	0.71	0	0	A
		2490.28	-41.42	-20.22	-21.2	-45.13	3	0.71	0	0	P
		2483.56	-50.13	-8.93	-41.2	-53.84	3	0.71	0	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 2Mbps CH 01 2404MHz		2388.78	-33.2	-12	-21.2	-36.91	3	0.71	0	0	P
		2384.23	-45.7	-4.5	-41.2	-49.41	3	0.71	0	0	A
	*	2404	21.31	-	-	17.59	3	0.72	0	0	P
	*	2404	19.83	-	-	16.11	3	0.72	0	0	A
BLE 2Mbps CH 19 2440MHz		2376.64	-37.4	-16.2	-21.2	-41.11	3	0.71	0	0	P
		2376.64	-46.46	-5.26	-41.2	-50.17	3	0.71	0	0	A
	*	2440	21.2	-	-	17.48	3	0.72	0	0	P
	*	2440	19.61	-	-	15.89	3	0.72	0	0	A
		2494.54	-39.5	-18.3	-21.2	-43.21	3	0.71	0	0	P
		2487.61	-49.1	-7.9	-41.2	-52.81	3	0.71	0	0	A
BLE 2Mbps CH 38 2478MHz	*	2478	21.88	-	-	18.17	3	0.71	0	0	P
	*	2478	20.36	-	-	16.65	3	0.71	0	0	A
		2483.6	-31.89	-10.69	-21.2	-35.6	3	0.71	0	0	P
		2483.52	-41.34	-0.14	-41.2	-45.05	3	0.71	0	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 125kbps CH 00 2402MHz		2386.65	-36.38	-15.18	-21.2	-40.09	3	0.71	0	0	P
		2382.45	-46.11	-4.91	-41.2	-49.82	3	0.71	0	0	A
	*	2402	20.7	-	-	16.98	3	0.72	0	0	P
	*	2402	19.94	-	-	16.22	3	0.72	0	0	A
BLE 125kbps CH 19 2440MHz		2387	-40.54	-19.34	-21.2	-44.25	3	0.71	0	0	P
		2359.98	-49.61	-8.41	-41.2	-53.31	3	0.7	0	0	A
	*	2440	20.71	-	-	16.99	3	0.72	0	0	P
	*	2440	19.9	-	-	16.18	3	0.72	0	0	A
		2484.32	-40.44	-19.24	-21.2	-44.15	3	0.71	0	0	P
		2484.88	-50.61	-9.41	-41.2	-54.32	3	0.71	0	0	A
BLE 125kbps CH 39 2480MHz	*	2480	10.62	-	-	6.91	3	0.71	0	0	P
	*	2480	10.59	-	-	6.88	3	0.71	0	0	A
		2483.56	-41.04	-19.84	-21.2	-44.75	3	0.71	0	0	P
		2483.52	-50.14	-8.94	-41.2	-53.85	3	0.71	0	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 500kbps CH 00 2402MHz		2386.965	-34.74	-13.54	-21.2	-38.45	3	0.71	0	0	P
		2382.24	-46.12	-4.92	-41.2	-49.83	3	0.71	0	0	A
	*	2402	22.02	-	-	18.3	3	0.72	0	0	P
	*	2402	21.41	-	-	17.69	3	0.72	0	0	A
BLE 500kbps CH 19 2440MHz		2376.08	-37.89	-16.69	-21.2	-41.6	3	0.71	0	0	P
		2360.12	-47.74	-6.54	-41.2	-51.44	3	0.7	0	0	A
	*	2440	21.93	-	-	18.21	3	0.72	0	0	P
	*	2440	20.7	-	-	16.98	3	0.72	0	0	A
		2488.8	-39.03	-17.83	-21.2	-42.74	3	0.71	0	0	P
		2487.47	-48.74	-7.54	-41.2	-52.45	3	0.71	0	0	A
BLE 500kbps CH 39 2480MHz	*	2480	10.65	-	-	6.94	3	0.71	0	0	P
	*	2480	10.09	-	-	6.38	3	0.71	0	0	A
		2483.52	-39.92	-18.72	-21.2	-43.63	3	0.71	0	0	P
		2483.52	-49.8	-8.6	-41.2	-53.51	3	0.71	0	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



2.4GHz 2400~2483.5MHz

BLE (Harmonic)

BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 1Mbps CH 00 2402MHz	#	3201.3	-46.75	-	-	-52.09	3	2.34	0	0	P
		4000.4	-57.37	-36.17	-21.2	-62.51	3	2.14	0	0	P
		4804	-46.55	-25.35	-21.2	-51.12	3	1.57	0	0	P
		5604.7	-70.78	-49.58	-21.2	-75.59	3	1.81	0	0	P
		6403.8	-62.1	-40.9	-21.2	-66.87	3	1.77	0	0	P
		7206	-62.73	-41.53	-21.2	-67.73	3	2	0	0	P
BLE 1Mbps CH 19 2440MHz	#	3250.1	-40.16	-	-	-45.45	3	2.29	0	0	P
		3366	-69.22	-48.02	-21.2	-74.43	3	2.21	0	0	P
		3396.5	-69.98	-48.78	-21.2	-75.17	3	2.19	0	0	P
		4067.5	-62.08	-40.88	-21.2	-67.17	3	2.09	0	0	P
		4880	-53.35	-32.15	-21.2	-57.95	3	1.6	0	0	P
		5690.1	-67.34	-46.14	-21.2	-72.13	3	1.79	0	0	P
		5769.4	-65.59	-44.39	-21.2	-70.35	3	1.76	0	0	P
		6507.5	-61.44	-40.24	-21.2	-66.3	3	1.86	0	0	P
		7320	-58.29	-37.09	-21.2	-63.24	3	1.95	0	0	P
BLE 1Mbps CH 39 2480MHz	#	3305	-60.5	-	-	-65.76	3	2.26	0	0	P
		4134.6	-68.01	-46.81	-21.2	-73.05	3	2.04	0	0	P
		4960	-57.65	-36.45	-21.2	-62.3	3	1.65	0	0	P
		6611.2	-60.33	-39.13	-21.2	-65.29	3	1.96	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 2Mbps CH 01 2404MHz	#	3201.3	-47.11	-	-	-52.45	3	2.34	0	0	P
		3372.1	-68.34	-47.14	-21.2	-73.53	3	2.19	0	0	P
		4006.5	-57.9	-36.7	-21.2	-63.04	3	2.14	0	0	P
		4808	-46.8	-25.6	-21.2	-51.39	3	1.59	0	0	P
		5610.8	-71.37	-50.17	-21.2	-76.18	3	1.81	0	0	P
		5769.4	-70.21	-49.01	-21.2	-74.97	3	1.76	0	0	P
		6409.9	-61.68	-40.48	-21.2	-66.45	3	1.77	0	0	P
		7212	-63.04	-41.84	-21.2	-68.04	3	2	0	0	P
BLE 2Mbps CH 19 2440MHz	#	3250.1	-40.58	-	-	-45.87	3	2.29	0	0	P
		3384.3	-72.46	-51.26	-21.2	-77.65	3	2.19	0	0	P
		4061.4	-61.99	-40.79	-21.2	-67.08	3	2.09	0	0	P
		4880	-53.11	-31.91	-21.2	-57.71	3	1.6	0	0	P
		5690.1	-70.35	-49.15	-21.2	-75.14	3	1.79	0	0	P
		5757.2	-71.31	-50.11	-21.2	-76.07	3	1.76	0	0	P
		6501.4	-62.02	-40.82	-21.2	-66.88	3	1.86	0	0	P
		7320	-58.36	-37.16	-21.2	-63.31	3	1.95	0	0	P
BLE 2Mbps CH 38 2478MHz	#	3305	-54.53	-	-	-59.79	3	2.26	0	0	P
		4128.5	-60.38	-39.18	-21.2	-65.43	3	2.05	0	0	P
		4956	-44.91	-23.71	-21.2	-49.55	3	1.64	0	0	P
		6605.1	-59.27	-38.07	-21.2	-64.22	3	1.95	0	0	P
		7434	-65.53	-44.33	-21.2	-70.46	3	1.93	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 125kbps CH 00 2402MHz	#	3201.3	-46.97	-	-	-52.31	3	2.34	0	0	P
		3378.2	-71.6	-50.4	-21.2	-76.79	3	2.19	0	0	P
		4000.4	-58.02	-36.82	-21.2	-63.16	3	2.14	0	0	P
		4804	-47.21	-26.01	-21.2	-51.78	3	1.57	0	0	P
		5196	-70.23	-49.03	-21.2	-75.18	3	1.95	0	0	P
		5604.7	-70.76	-49.56	-21.2	-75.57	3	1.81	0	0	P
		5763.3	-61.33	-40.13	-21.2	-66.09	3	1.76	0	0	P
		6403.8	-62.1	-40.9	-21.2	-66.87	3	1.77	0	0	P
		7206	-63.01	-41.81	-21.2	-68.01	3	2	0	0	P
BLE 125kbps CH 19 2440MHz	#	3250.1	-40.2	-	-	-45.49	3	2.29	0	0	P
		3378.2	-70.15	-48.95	-21.2	-75.34	3	2.19	0	0	P
		4067.5	-61.69	-40.49	-21.2	-66.78	3	2.09	0	0	P
		4880	-53.5	-32.3	-21.2	-58.1	3	1.6	0	0	P
		5202.1	-69.66	-48.46	-21.2	-74.62	3	1.96	0	0	P
		5690.1	-68.52	-47.32	-21.2	-73.31	3	1.79	0	0	P
		5763.3	-60.1	-38.9	-21.2	-64.86	3	1.76	0	0	P
		6507.5	-63.08	-41.88	-21.2	-67.94	3	1.86	0	0	P
		7320	-58.49	-37.29	-21.2	-63.44	3	1.95	0	0	P
BLE 125kbps CH 39 2480MHz	#	3305	-63.31	-	-	-68.57	3	2.26	0	0	P
		3366	-69.77	-48.57	-21.2	-74.98	3	2.21	0	0	P
		4134.6	-68.58	-47.38	-21.2	-73.62	3	2.04	0	0	P
		4960	-58.34	-37.14	-21.2	-62.99	3	1.65	0	0	P
		5196	-70.78	-49.58	-21.2	-75.73	3	1.95	0	0	P
		5769.4	-59.92	-38.72	-21.2	-64.68	3	1.76	0	0	P
		6611.2	-61.2	-40	-21.2	-66.16	3	1.96	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 500kbps CH 00 2402MHz	#	3201.3	-46.36	-	-	-51.7	3	2.34	0	0	P
		4000.4	-58.1	-36.9	-21.2	-63.24	3	2.14	0	0	P
		4804	-47.32	-26.12	-21.2	-51.89	3	1.57	0	0	P
		6403.8	-63.24	-42.04	-21.2	-68.01	3	1.77	0	0	P
		7206	-63.63	-42.43	-21.2	-68.63	3	2	0	0	P
BLE 500kbps CH 19 2440MHz	#	3250.1	-40.07	-	-	-45.36	3	2.29	0	0	P
		4067.5	-61.64	-40.44	-21.2	-66.73	3	2.09	0	0	P
		4880	-53.4	-32.2	-21.2	-58	3	1.6	0	0	P
		5690.1	-69.2	-48	-21.2	-73.99	3	1.79	0	0	P
		5763.3	-57.77	-36.57	-21.2	-62.53	3	1.76	0	0	P
		6507.5	-62.63	-41.43	-21.2	-67.49	3	1.86	0	0	P
		7320	-58.17	-36.97	-21.2	-63.12	3	1.95	0	0	P
BLE 500kbps CH 39 2480MHz	#	3305	-63.21	-	-	-68.47	3	2.26	0	0	P
		4134.6	-68.31	-47.11	-21.2	-73.35	3	2.04	0	0	P
		4960	-58.27	-37.07	-21.2	-62.92	3	1.65	0	0	P
		5769.4	-61.96	-40.76	-21.2	-66.72	3	1.76	0	0	P
		6611.2	-61.34	-40.14	-21.2	-66.3	3	1.96	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

**Emission above 18GHz****BLE (SHF)**

BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 2Mbps SHF		24965	-69.66	-48.46	-21.2	-74.96	3	2.3	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

**Emission below 1GHz****BLE (LF)**

BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 2Mbps LF		93.05	-88.3	-36.6	-51.7	-96.19	3	0.19	0	4.7	P
		212.36	-87.78	-36.08	-51.7	-95.73	3	0.25	0	4.7	P
		278.32	-87.39	-38.19	-49.2	-95.38	3	0.29	0	4.7	P
		746.83	-74.66	-25.46	-49.2	-82.83	3	0.47	0	4.7	P
		826.37	-66.03	-16.83	-49.2	-74.28	3	0.55	0	4.7	P
		901.06	-76.04	-26.84	-49.2	-84.3	3	0.56	0	4.7	P
Remark	1. No other spurious found. 2. All results are PASS against limit line.										

**Note symbol**

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
#	The unwanted signal #1 can be ignored, as it falls within the non-restricted band and meets the requirements of FCC 15.247 (d), RSS-247 section 5.5, LP0002 section 4.1.10.5.
!	Test result is Margin limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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

BLE	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	MIMO	Groun ding	Peak
				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
BLE CH 00 2402MHz		2390	-45.8	-24.6	-21.2	-48.44	2	0.64	0	0	P
		2390	-59.91	-18.71	-41.2	-62.58	2	0.67	0	0	A

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBm) = Antenna Factor(dBi) + Path Loss(dB) + Read Level(dBm)
3. Margin Limit(dB) = Level(dBm) – Limit Line(dBm)

For Peak Limit @ 2390MHz:

1. Level(dBm)
= Antenna Factor(dBi) + Path Loss(dB) + Read Level(dBm)
= 2(dBi) + 0.64(dB) - 48.44(dBm)
= -45.8 (dBm)
2. Margin Limit(dB)
= Level(dBm) – Limit Line(dBm)
= -45.8(dBm) + 21.2(dBm)
= -24.6(dB)

For Average Limit @ 2390MHz:

1. Level(dBm)
= Antenna Factor(dBi) + Path Loss(dB) + Read Level(dBm)
= 2(dBi) + 0.67(dB) - 62.58(dBm)
= -59.91 (dBm)
2. Margin Limit(dB)
= Level(dBm) – Limit Line(dBm)
= -59.91(dBm) + 41.2(dBm)
= -18.71(dB)

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



Appendix D. Conducted Spurious Emission Plots

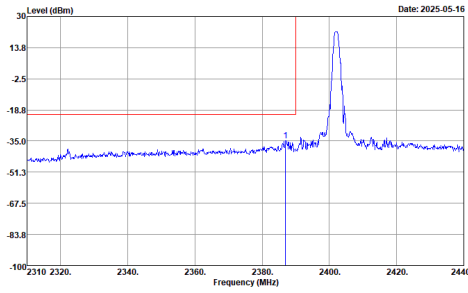
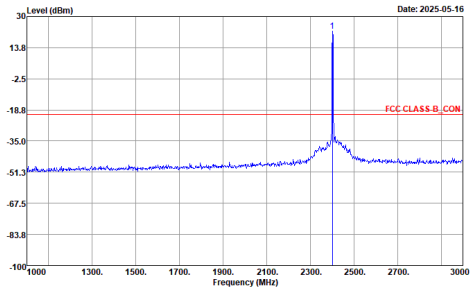
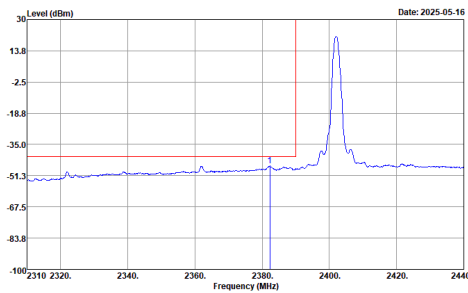
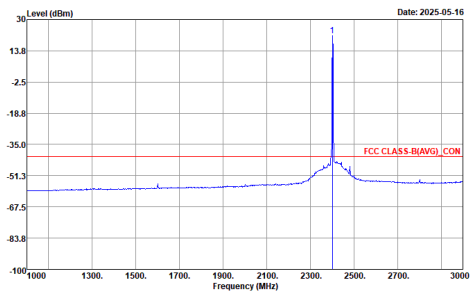
Test Engineer :	Kai Liao	Temperature :	22.3~24.9°C
		Relative Humidity :	52.5~72.4%

Note symbol

-L	Low channel location
-R	High channel location

2.4GHz 2400~2483.5MHz

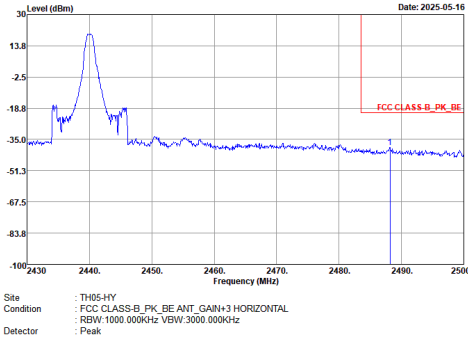
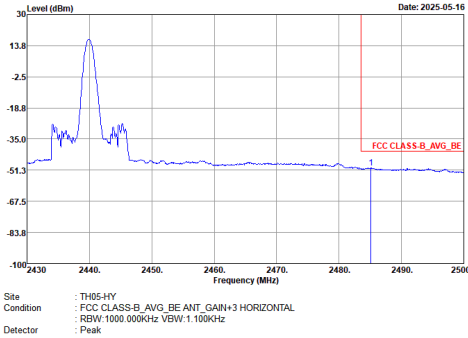
BLE (Band Edge)

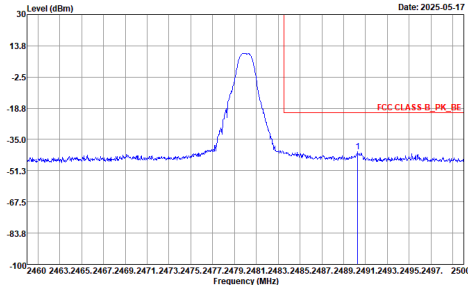
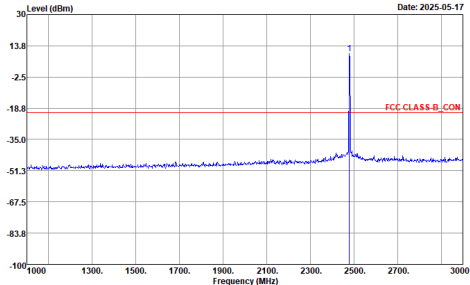
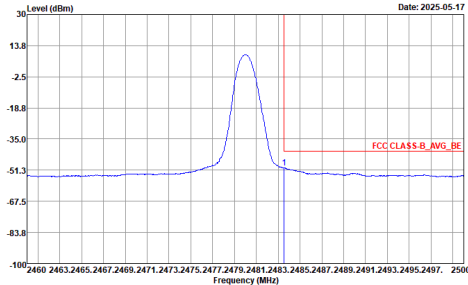
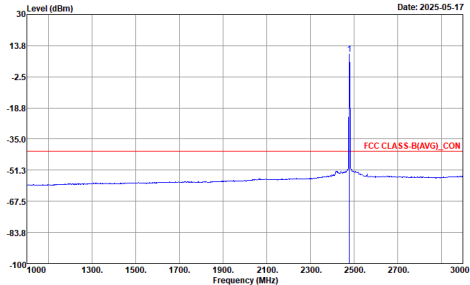
Ant.	2.4GHz 2400~2483.5MHz	
1	BLE 1Mbps CH00 2402MHz	
	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : Peak
Average	 Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : Peak

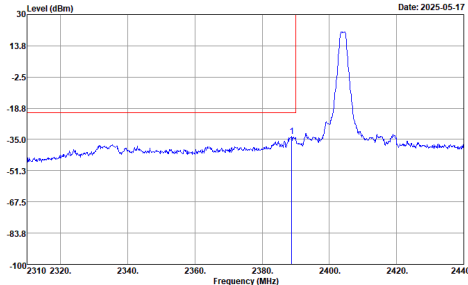
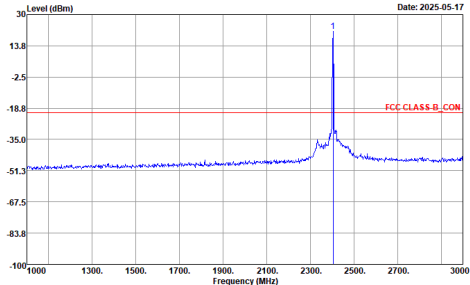
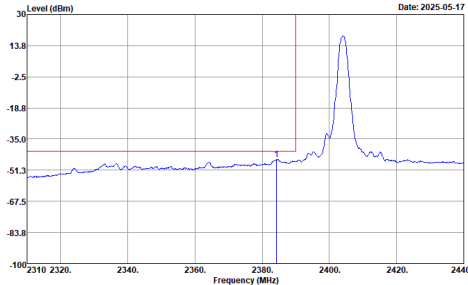
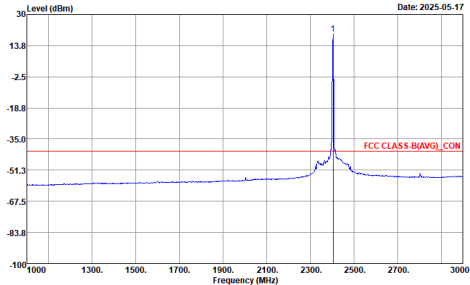


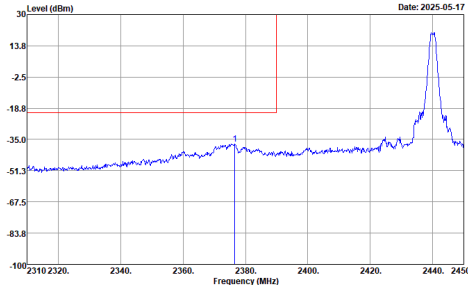
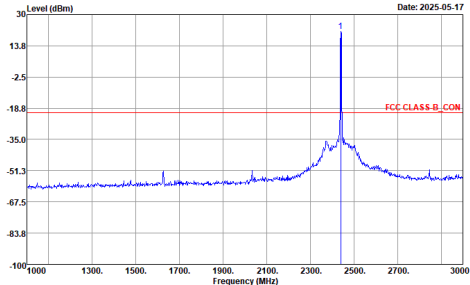
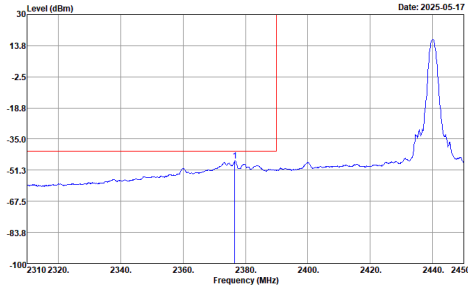
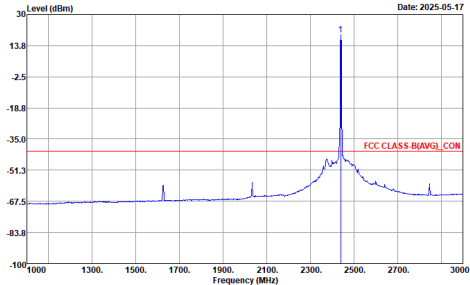
ANT	2.4GHz 2400~2483.5MHz	
1	BLE 1Mbps CH19 2440MHz - L	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : Peak



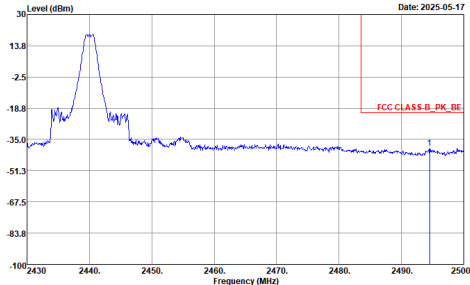
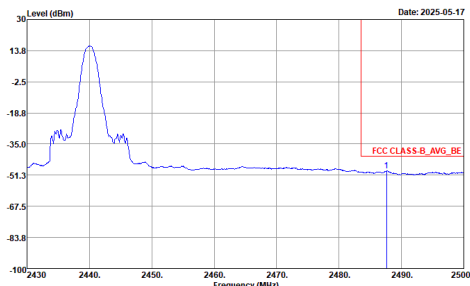
ANT	2.4GHz 2400~2483.5MHz	
1	BLE 1Mbps CH19 2440MHz - R	
	CSE	Fundamental
Peak		Left Blank
Average		Left Blank

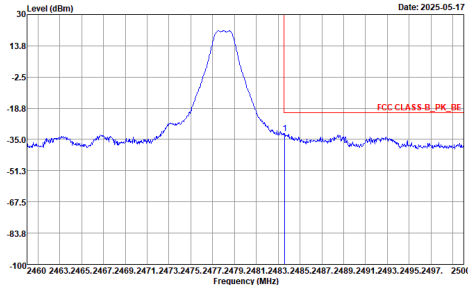
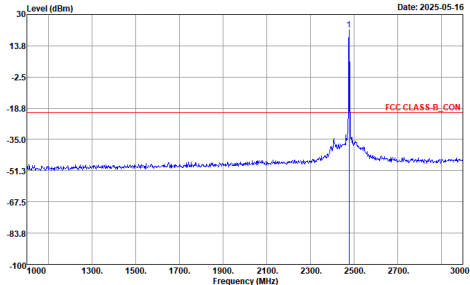
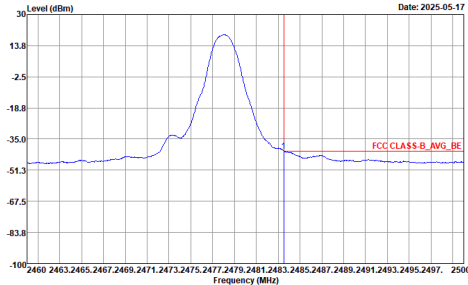
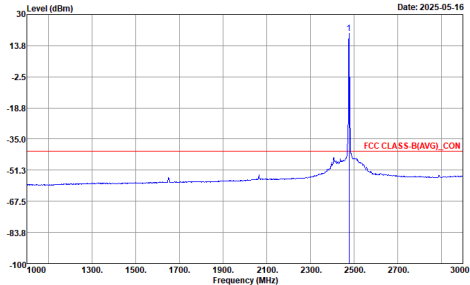
ANT	2.4GHz 2400~2483.5MHz	
1	BLE 1Mbps CH39 2480MHz	
	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak
Average	 Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:1.100kHz Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:1.100kHz Detector : Peak

Ant.	2.4GHz 2400~2483.5MHz	
1	BLE 2Mbps CH01 2404MHz	
	CSE	Fundamental
Peak	 Level (dBm) Frequency (MHz) Date: 2025-05-17 Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	 Level (dBm) Frequency (MHz) Date: 2025-05-17 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : Peak
Average	 Level (dBm) Frequency (MHz) Date: 2025-05-17 Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	 Level (dBm) Frequency (MHz) Date: 2025-05-17 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : Peak

ANT	2.4GHz 2400~2483.5MHz	
1	BLE 2Mbps CH19 2440MHz - L	
	CSE	Fundamental
Peak	 Date: 2025-05-17 Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : Peak RBW:1000.000kHz VBW:3000.000kHz	 Date: 2025-05-17 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : Peak RBW:1000.000kHz VBW:3000.000kHz
Average	 Date: 2025-05-17 Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : Peak RBW:1000.000kHz VBW:1.200kHz	 Date: 2025-05-17 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : Peak RBW:1000.000kHz VBW:1.200kHz



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 2Mbps CH19 2440MHz - R	
	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	Left Blank
Average	 Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:1200kHz Detector : Peak	Left Blank

ANT	2.4GHz 2400~2483.5MHz	
1	BLE 2Mbps CH38 2478MHz	
	CSE	Fundamental
Peak	 Level (dBm) vs Frequency (MHz) for CSE. The plot shows a peak at 2478 MHz. The y-axis ranges from -100 to 30 dBm, and the x-axis ranges from 2460 to 2500 MHz. A red line indicates the FCC CLASS-B PK_BE limit at -18 dBm. Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	 Level (dBm) vs Frequency (MHz) for Fundamental. The plot shows a sharp peak at 2478 MHz. The y-axis ranges from -100 to 30 dBm, and the x-axis ranges from 2400 to 3000 MHz. A red line indicates the FCC CLASS-B_CON limit at -18 dBm. Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak
Average	 Level (dBm) vs Frequency (MHz) for CSE. The plot shows a peak at 2478 MHz. The y-axis ranges from -100 to 30 dBm, and the x-axis ranges from 2460 to 2500 MHz. A red line indicates the FCC CLASS-B_AVG_BE limit at -18 dBm. Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:1.200kHz Detector : Peak	 Level (dBm) vs Frequency (MHz) for Fundamental. The plot shows a sharp peak at 2478 MHz. The y-axis ranges from -100 to 30 dBm, and the x-axis ranges from 2400 to 3000 MHz. A red line indicates the FCC CLASS-B(AVG)_CON limit at -18 dBm. Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:1.200kHz Detector : Peak

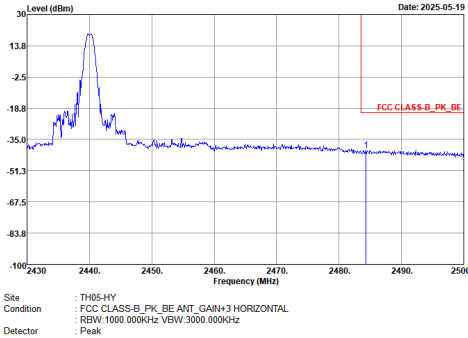
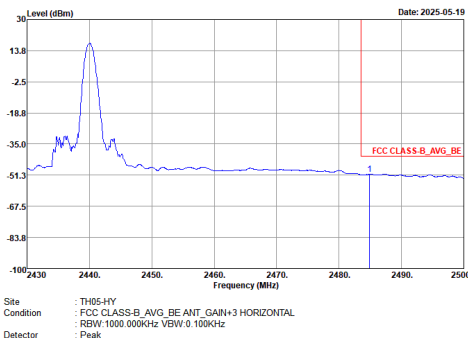


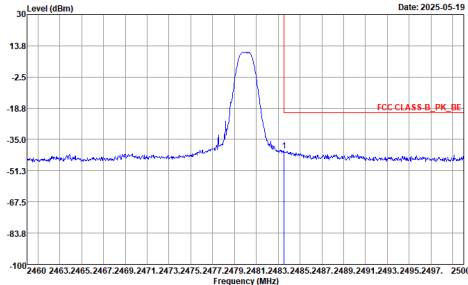
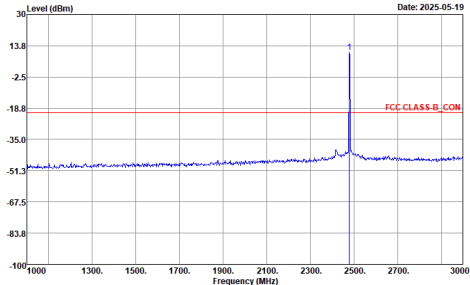
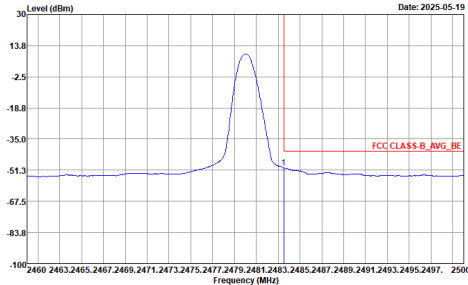
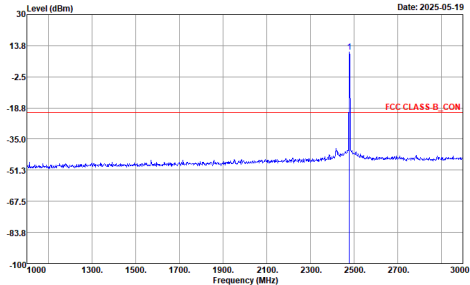
Ant.	2.4GHz 2400~2483.5MHz	
1	BLE 125kbps CH00 2402MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : Peak



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 125kbps CH19 2440MHz - L	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : Peak



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 125kbps CH19 2440MHz - R	
	CSE	Fundamental
Peak		Left Blank
Average		Left Blank

ANT	2.4GHz 2400~2483.5MHz	
1	BLE 125kbps CH39 2480MHz	
	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : Peak
Average	 Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : Peak



Ant.	2.4GHz 2400~2483.5MHz	
1	BLE 500kpbs CH00 2402MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : Peak



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 500kbps CH19 2440MHz - L	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE_ANT_GAIN+3 HORIZONTAL Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE_ANT_GAIN+3 HORIZONTAL Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : Peak

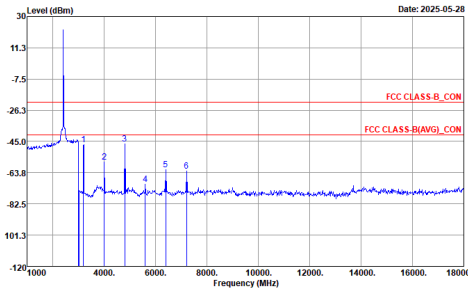
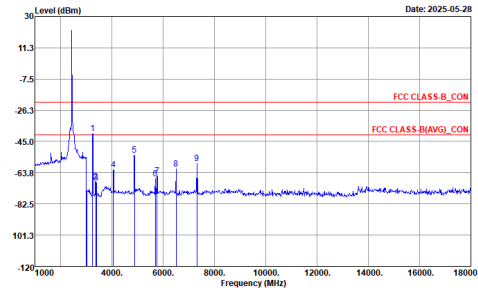


ANT	2.4GHz 2400~2483.5MHz	
1	BLE 500kbps CH19 2440MHz - R	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	Left Blank
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : Peak	Left Blank

ANT	2.4GHz 2400~2483.5MHz	
1	BLE 500kpbs CH39 2480MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:0.270kHz Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:0.270kHz Detector : Peak

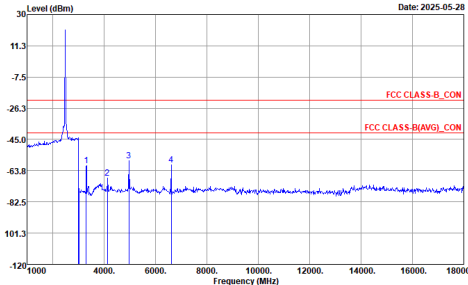
2.4GHz 2400~2483.5MHz

BLE (Harmonic)

ANT	2.4GHz 2400~2483.5MHz	
1	BLE 1Mbps CH00 2402MHz	BLE 1Mbps CH19 2440MHz
	Harmonic	Harmonic
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT: GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT: GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak

Remark: The unwanted signal #1 can be ignored, as it falls within the non-restricted band and meets the requirements of FCC 15.247 (d), RSS-247 section 5.5, LP0002 section 4.1.10.5.



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 1Mbps CH39 2480MHz	Blank
	Harmonic	
Peak Average	 Date: 2025-05-28 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak	

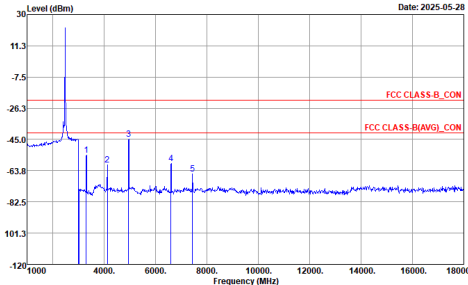
Remark: The unwanted signal #1 can be ignored, as it falls within the non-restricted band and meets the requirements of FCC 15.247 (d), RSS-247 section 5.5, LP0002 section 4.1.10.5.



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 2Mbps CH01 2404MHz	BLE 2Mbps CH19 2440MHz
	Harmonic	Harmonic
Peak Average	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak

Remark: The unwanted signal #1 can be ignored, as it falls within the non-restricted band and meets the requirements of FCC 15.247 (d), RSS-247 section 5.5, LP0002 section 4.1.10.5.



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 2Mbps CH38 2478MHz	Blank
	Harmonic	
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	

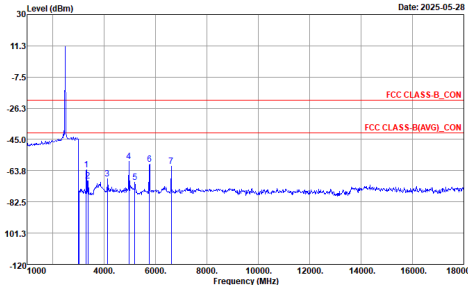
Remark: The unwanted signal #1 can be ignored, as it falls within the non-restricted band and meets the requirements of FCC 15.247 (d), RSS-247 section 5.5, LP0002 section 4.1.10.5.



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 125kbps CH00 2402MHz	BLE 125kbps CH19 2440MHz
	Harmonic	Harmonic
Peak Average	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : Peak

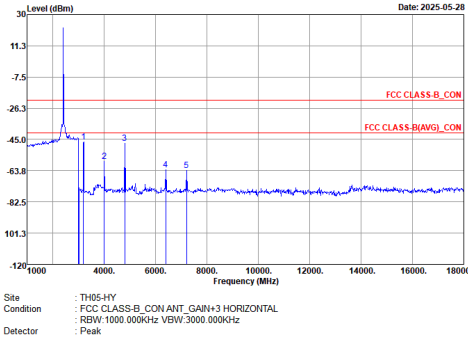
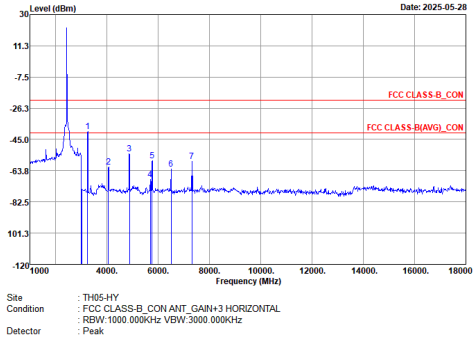
Remark: The unwanted signal #1 can be ignored, as it falls within the non-restricted band and meets the requirements of FCC 15.247 (d), RSS-247 section 5.5, LP0002 section 4.1.10.5.



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 125kbps CH39 2480MHz	Blank
	Harmonic	
Peak Average	 Date: 2025-05-28 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	

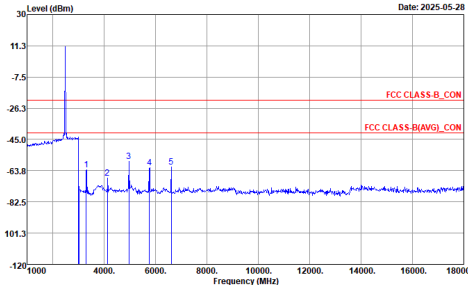
Remark: The unwanted signal #1 can be ignored, as it falls within the non-restricted band and meets the requirements of FCC 15.247 (d), RSS-247 section 5.5, LP0002 section 4.1.10.5.



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 500kbps CH00 2402MHz	BLE 500kbps CH19 2440MHz
	Harmonic	Harmonic
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak

Remark: The unwanted signal #1 can be ignored, as it falls within the non-restricted band and meets the requirements of FCC 15.247 (d), RSS-247 section 5.5, LP0002 section 4.1.10.5.



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 500kbps CH39 2480MHz	Blank
	Harmonic	
Peak Average	 Date: 2025-05-28 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak	

Remark: The unwanted signal #1 can be ignored, as it falls within the non-restricted band and meets the requirements of FCC 15.247 (d), RSS-247 section 5.5, LP0002 section 4.1.10.5.



Emission above 18GHz and below 1GHz

ANT	2.4GHz 2400~2483.5MHz	
1	BLE 2Mbps SHF	BLE 2Mbps LF
	Emission above 18GHz	Emission below 1GHz
Peak	Level (dBm) Date: 2025-06-02 FCC CLASS-B_CON FCC CLASS-B(AVG)_CON Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz Peak	Level (dBm) Date: 2025-06-02 FCC CLASS-B_CON Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:120.000KHz VBW:300.000KHz Peak



Appendix E. Cabinet Radiated Spurious Emission Test Data

Test Engineer :	Daniel Lee, Fu Chen, and Troye Hsieh	Relative Humidity(%):	53.2~65.8
		Temperature(°C):	19.1~20.9

Note symbol

-L	Low channel location
-R	High channel location



E1. Cabinet Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	Bluetooth-LE_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	1	Bluetooth-LE_GFSK	19	2440	1Mbps	-	-
Mode 3	2400-2483.5	1	Bluetooth-LE_GFSK	39	2480	1Mbps	-	-
Mode 4	2400-2483.5	1	Bluetooth-LE_GFSK	01	2404	2Mbps	-	-
Mode 5	2400-2483.5	1	Bluetooth-LE_GFSK	19	2440	2Mbps	-	-
Mode 6	2400-2483.5	1	Bluetooth-LE_GFSK	38	2478	2Mbps	-	-
Mode 7	2400-2483.5	1	Bluetooth-LE_GFSK	00	2402	125 kbps	-	-
Mode 8	2400-2483.5	1	Bluetooth-LE_GFSK	19	2440	125 kbps	-	-
Mode 9	2400-2483.5	1	Bluetooth-LE_GFSK	39	2480	125 kbps	-	-
Mode 10	2400-2483.5	1	Bluetooth-LE_GFSK	00	2402	500 kbps	-	-
Mode 11	2400-2483.5	1	Bluetooth-LE_GFSK	19	2440	500 kbps	-	-



Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 12	2400-2483.5	1	Bluetooth-LE_GFSK	39	2480	500 kbps	-	-
Mode 13	2400-2483.5	1	Bluetooth-LE_GFSK	19	2440	2Mbps	-	SHF
Mode 14	2400-2483.5	1	Bluetooth-LE_GFSK	19	2440	2Mbps	-	LF



E2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	Bluetooth-LE_GFSK	00	2386.73	42.46	54.00	-11.54	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	00	4804.00	43.71	54.00	-10.29	V	Avg.	Pass	-	Harmonic
2	Bluetooth-LE_GFSK	19	2487.04	43.32	54.00	-10.68	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	19	4880.00	43.01	54.00	-10.99	V	Avg.	Pass	-	Harmonic
3	Bluetooth-LE_GFSK	39	2499.74	43.31	54.00	-10.69	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	39	4960.00	43.88	54.00	-10.12	V	Avg.	Pass	-	Harmonic
4	Bluetooth-LE_GFSK	01	2383.79	43.17	54.00	-10.83	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	01	4808.00	52.09	54.00	-1.91	V	Avg.	Pass	-	Harmonic
5	Bluetooth-LE_GFSK	19	2485.42	43.93	54.00	-10.07	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	19	4880.00	52.87	54.00	-1.13	V	Avg.	Pass	-	Harmonic
6	Bluetooth-LE_GFSK	38	2485.30	43.83	54.00	-10.17	V	Avg.	Pass	-	Band Edge

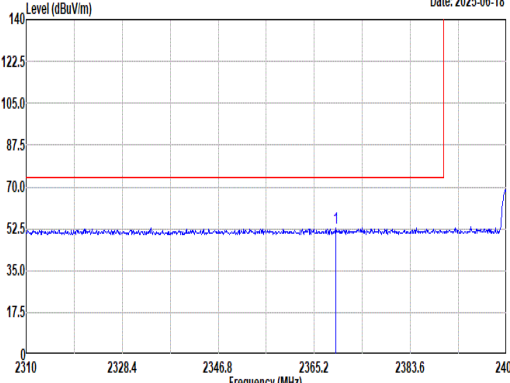
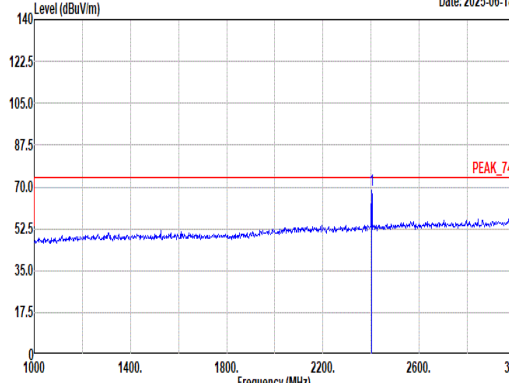
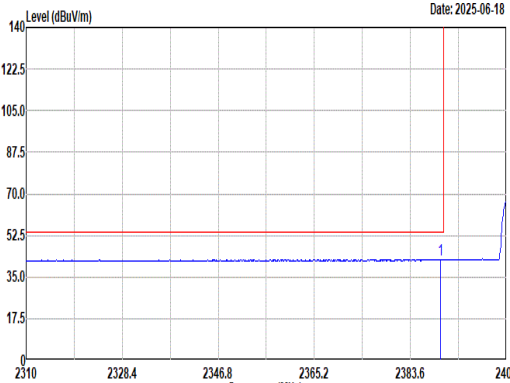
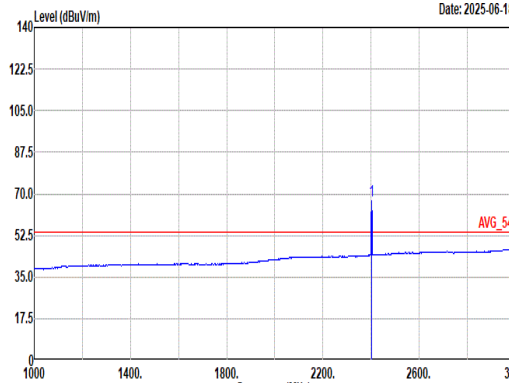


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
6	Bluetooth-LE_GFSK	38	4956.00	43.27	54.00	-10.73	V	Avg.	Pass	-	Harmonic
7	Bluetooth-LE_GFSK	00	2387.28	41.74	54.00	-12.26	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	00	4804.00	44.66	54.00	-9.34	H	Avg.	Pass	-	Harmonic
8	Bluetooth-LE_GFSK	19	2498.74	42.44	54.00	-11.56	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	19	4880.00	45.96	54.00	-8.04	H	Avg.	Pass	-	Harmonic
9	Bluetooth-LE_GFSK	39	2496.94	42.48	54.00	-11.52	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	39	4960.00	45.53	54.00	-8.47	H	Avg.	Pass	-	Harmonic
10	Bluetooth-LE_GFSK	00	2381.30	41.92	54.00	-12.08	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	00	4804.00	42.85	54.00	-11.15	H	Avg.	Pass	-	Harmonic
11	Bluetooth-LE_GFSK	19	2498.68	42.63	54.00	-11.37	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	19	4880.00	44.07	54.00	-9.93	H	Avg.	Pass	-	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
12	Bluetooth-LE_GFSK	39	2498.94	42.68	54.00	-11.32	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	39	4960.00	43.51	54.00	-10.49	H	Avg.	Pass	-	Harmonic
13	SHF	19	21940.88	38.65	74.00	-35.35	V	Peak	Pass	-	SHF
14	LF	19	664.38	39.96	46.00	-6.04	V	Peak	Pass	-	LF



Mode	1																																																																																																															
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Peak	Level (dBuV/m) Date: 2025-06-18  Site : 03CH11-HY Condition: PEAK_BE_74 3m 91200_01620_240828 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></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>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>cm</th><th>deg</th></tr><tr><td>1</td><td>2369.25</td><td>52.72</td><td>74.00</td><td>-21.28</td><td>41.95</td><td>27.20</td><td>6.77</td><td>33.22</td><td>10.02</td><td>298</td><td>325</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	dBuV	dB/m	dB	dB	cm	deg	1	2369.25	52.72	74.00	-21.28	41.95	27.20	6.77	33.22	10.02	298	325	Peak	Level (dBuV/m) Date: 2025-06-18  Site : 03CH11-HY Condition: PEAK_74 3m 91200_01620_240828 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></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>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>cm</th><th>deg</th></tr><tr><td>1</td><td>2402.00</td><td>68.58</td><td>-----</td><td>-----</td><td>57.52</td><td>27.40</td><td>6.82</td><td>33.19</td><td>10.03</td><td>298</td><td>325</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	dBuV	dB/m	dB	dB	cm	deg	1	2402.00	68.58	-----	-----	57.52	27.40	6.82	33.19	10.03	298	325	Peak
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Avg	Level (dBuV/m) Date: 2025-06-18  Site : 03CH11-HY Condition: AVG_BE_54 3m 91200_01620_240828 HORIZONTAL : RBW:1000.000kHz VBW:1.100kHz 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</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>cm</th><th>deg</th></tr><tr><td>1</td><td>2369.30</td><td>42.42</td><td>54.00</td><td>-11.58</td><td>31.50</td><td>27.29</td><td>6.80</td><td>33.20</td><td>10.03</td><td>298</td><td>325</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	dBuV	dB/m	dB	dB	cm	deg	1	2369.30	42.42	54.00	-11.58	31.50	27.29	6.80	33.20	10.03	298	325	Average	Level (dBuV/m) Date: 2025-06-18  Site : 03CH11-HY Condition: AVG_54 3m 91200_01620_240828 HORIZONTAL : RBW:1000.000kHz VBW:1.100kHz 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</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>cm</th><th>deg</th></tr><tr><td>1</td><td>2402.00</td><td>67.23</td><td>-----</td><td>-----</td><td>56.17</td><td>27.40</td><td>6.82</td><td>33.19</td><td>10.03</td><td>298</td><td>325</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	dBuV	dB/m	dB	dB	cm	deg	1	2402.00	67.23	-----	-----	56.17	27.40	6.82	33.19	10.03	298	325	Average
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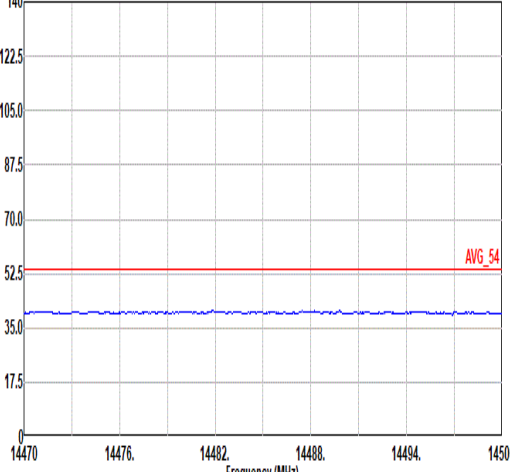
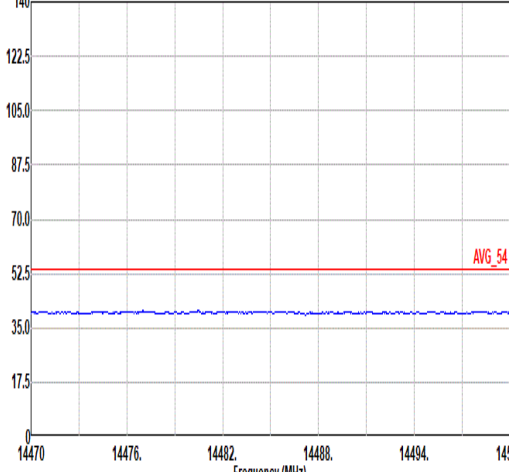
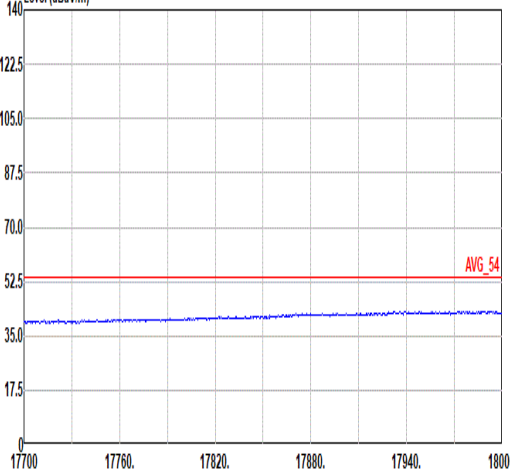
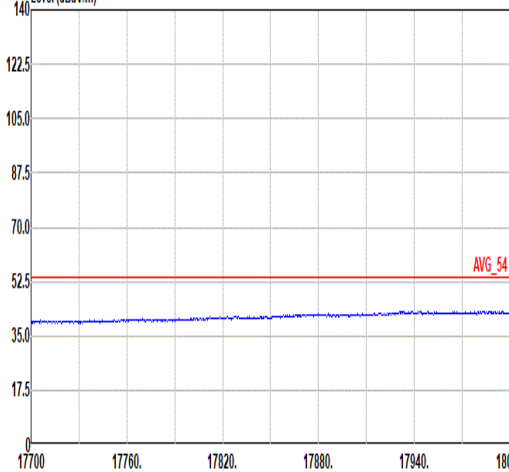
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Pol.	Horizontal						Vertical																																																																																																																												
Peak Avg	Level (dBuV/m) Date: 2025-06-17 Site : 03CH11-HY Condition: PEAK_74 3m 91280_01620_240828 HORIZONTAL <table><tr><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th></tr><tr><td>1</td><td>4804.00</td><td>42.46</td><td>74.00</td><td>-31.54</td><td>66.06</td><td>32.32</td><td>10.34</td><td>66.76</td><td>0.50</td><td>--</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	dB	1	4804.00	42.46	74.00	-31.54	66.06	32.32	10.34	66.76	0.50	--	--	Peak	Level (dBuV/m) Date: 2025-06-18 Site : 03CH11-HY Condition: PEAK_74 3m 91280_01620_240828 VERTICAL <table><tr><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th></tr><tr><td>1</td><td>3345.00</td><td>46.00</td><td>74.00</td><td>-28.00</td><td>72.31</td><td>29.60</td><td>9.19</td><td>66.34</td><td>1.24</td><td>254</td><td>0</td><td>Peak</td></tr><tr><td>2</td><td>4804.00</td><td>47.33</td><td>74.00</td><td>-26.67</td><td>70.93</td><td>32.32</td><td>10.34</td><td>66.76</td><td>0.50</td><td>156</td><td>4</td><td>Peak</td></tr><tr><td>3</td><td>4804.00</td><td>43.71</td><td>54.00</td><td>-10.29</td><td>67.31</td><td>32.32</td><td>10.34</td><td>66.76</td><td>0.50</td><td>156</td><td>4</td><td>Average</td></tr><tr><td>4</td><td>6405.00</td><td>48.20</td><td>74.00</td><td>-25.80</td><td>65.19</td><td>34.71</td><td>12.69</td><td>64.90</td><td>0.51</td><td>300</td><td>170</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	dB	1	3345.00	46.00	74.00	-28.00	72.31	29.60	9.19	66.34	1.24	254	0	Peak	2	4804.00	47.33	74.00	-26.67	70.93	32.32	10.34	66.76	0.50	156	4	Peak	3	4804.00	43.71	54.00	-10.29	67.31	32.32	10.34	66.76	0.50	156	4	Average	4	6405.00	48.20	74.00	-25.80	65.19	34.71	12.69	64.90	0.51	300	170	Peak
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																										
	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																																										
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2	4804.00	47.33	74.00	-26.67	70.93	32.32	10.34	66.76	0.50	156	4	Peak																																																																																																																							
3	4804.00	43.71	54.00	-10.29	67.31	32.32	10.34	66.76	0.50	156	4	Average																																																																																																																							
4	6405.00	48.20	74.00	-25.80	65.19	34.71	12.69	64.90	0.51	300	170	Peak																																																																																																																							

Remark: The unwanted signals 3345MHz, 6405MHz can be ignored as they fall within the non-restricted band and meet the requirements of FCC 15.247 (d), RSS-247 section 5.5, LP0002 section 4.1.10.5.



Mode	1	
	Harmonic	
	2400-2483.5_Bluetooth-LE_GFSK_CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	Level (dBuV/m) Date: 2025-06-17  Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 HORIZONTAL	Level (dBuV/m) Date: 2025-06-17  Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 VERTICAL
	Level (dBuV/m) Date: 2025-06-17  Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 HORIZONTAL	Level (dBuV/m) Date: 2025-06-17  Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 VERTICAL