



FCC RADIO TEST REPORT

FCC ID : 2ABXLT1801A
Equipment : Wireless Transceiver
Brand Name : tile
Model Name : T1801A
Applicant : Life360, Inc.
1900 S NORFOLK ST. SUITE 310 SAN
MATEO CA 94403
Manufacturer : Life360, Inc.
1900 S NORFOLK ST. SUITE 310 SAN
MATEO CA 94403
Standard : FCC Part 15 Subpart C §15.247

The product was received on Apr. 11, 2024 and testing was performed from Apr. 15, 2024 to Apr. 20, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

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



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History of this test report

Report No.	Version	Description	Issue Date
FR413101-01	01	Initial issue of report	Jun. 04, 2024
FR413101-01	02	Revise Brand Name, Applicant and Manufacturer. This report is an updated version, replacing the report issued on Jun. 04, 2024.	Jul. 10, 2024

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	Reporting only	-
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	3.41 dB under the limit at 2483.52 MHz
-	15.207	AC Conducted Emission	Not Required	-
3.6	15.203	Antenna Requirement	Pass	-

Note: The power source method of the EUT is use power supply (DC power source), and there is no other AC power port, after assessing, AC Conduction Emission test is not required.

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: Yun Huang

Report Producer: Mila Chen



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Bluetooth-LE		
Antenna Type Bluetooth: Integral Antenna		
Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	1.44

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, 03CH13-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	-	-



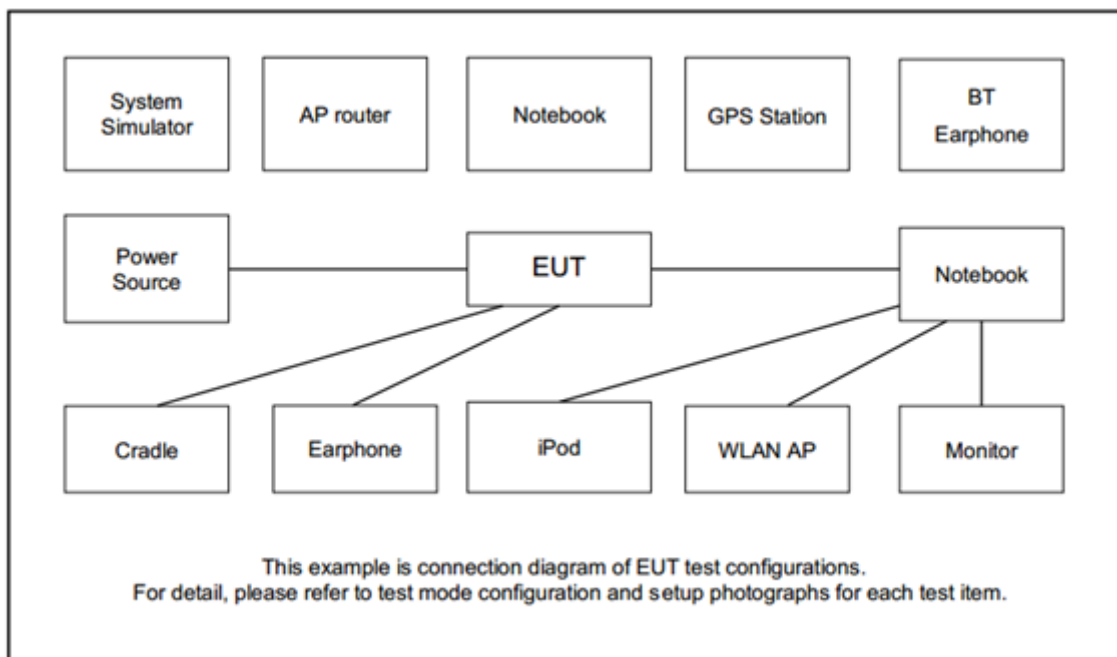
2.2 Test Mode

- 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: 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.

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
Radiated Test Cases	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps
	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.	

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Smart Phone	Apple	A2176	BCG-E3539A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, press the dome of EUT to make the EUT get into the engineering modes to provide channel selection, power level, data rate, and the application type 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.

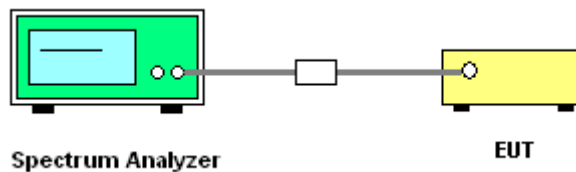
3.1.2 Measuring Instruments

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.

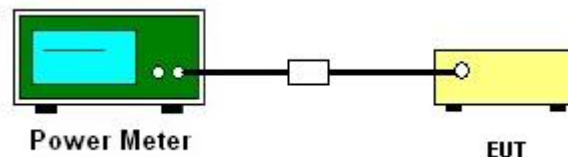
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

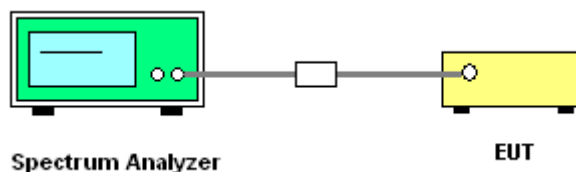
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth (VBW) = 10 kHz. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6 dB BW)
5. Detector = peak, Sweep time = 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.

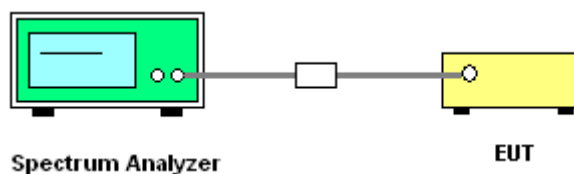
3.4.2 Measuring Instruments

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 output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

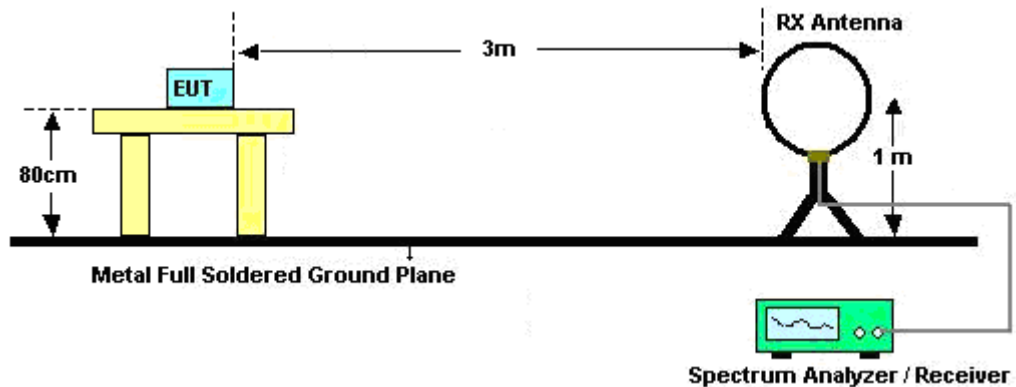
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.



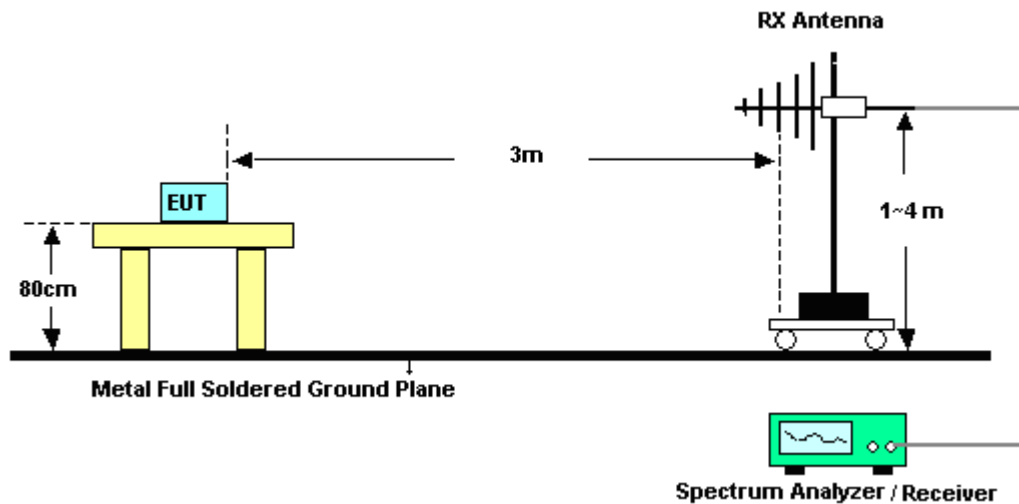
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.
8. Use the following spectrum analyzer settings:
- (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz; VBW $\geq$ 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.
 - (4) For average measurement: use duty cycle correction factor method per 15.35(c).
Duty cycle = On time/100 milliseconds
On time = $N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$
Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 * \log(\text{Duty cycle})$
Duty cycle please refer to Appendix E. The average levels are calculated from the peak level corrected with duty cycle correction factor (-40.62 dB) derived from $20 \log(\text{dwell time}/100\text{ms})$. This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

3.5.4 Test Setup

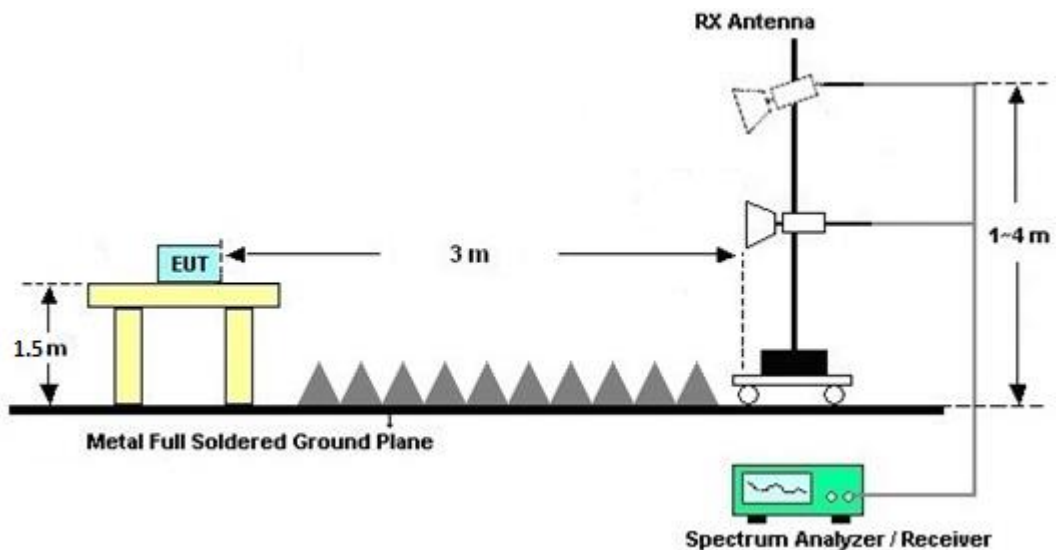
For radiated test below 30MHz



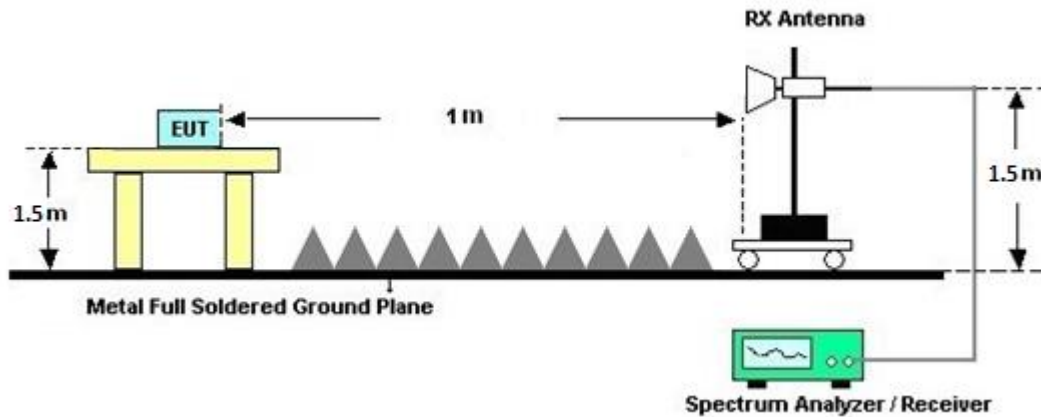
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

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

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

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

Please refer to Appendix B and C.



3.6 Antenna Requirements

3.6.1 Standard Applicable

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 rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEP	DTM-303A	TP201996	N/A	Nov. 07, 2023	Apr. 15, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO 35 (NO:109)	10MHz~6GHz	Jan. 15, 2024	Apr. 15, 2024	Jan. 14, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2023	Apr. 15, 2024	Aug. 22, 2024	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 23, 2024	Apr. 19, 2024~ Apr. 20, 2024	Feb. 22, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9k~30M	Mar. 06, 2024	Apr. 19, 2024~ Apr. 20, 2024	Mar. 05, 2025	Radiation (03CH13-HY)
Amplifier	SONOMA	310N	187282	9kHz~1GHz	Dec. 13, 2023	Apr. 19, 2024~ Apr. 20, 2024	Dec. 12, 2024	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz~1GHz	Oct. 07, 2023	Apr. 19, 2024~ Apr. 20, 2024	Oct. 06, 2024	Radiation (03CH13-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290045	20MHz~8.4GHz	Apr. 25, 2023	Apr. 19, 2024~ Apr. 20, 2024	Apr. 24, 2024	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Aug. 17, 2023	Apr. 19, 2024~ Apr. 20, 2024	Aug. 16, 2024	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 16, 2023	Apr. 19, 2024~ Apr. 20, 2024	May 15, 2024	Radiation (03CH13-HY)
Preamplifier	EM Electronics	EM01G18G	060803	1GHz~18GHz	Jan. 09, 2024	Apr. 19, 2024~ Apr. 20, 2024	Jan. 08, 2025	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 27, 2023	Apr. 19, 2024~ Apr. 20, 2024	Jun. 26, 2024	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	1223	18GHz~40GHz	Jul. 10, 2023	Apr. 19, 2024~ Apr. 20, 2024	Jul. 09, 2024	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010B	MY62170337	10Hz~44GHz	Aug. 17, 2023	Apr. 19, 2024~ Apr. 20, 2024	Aug. 16, 2024	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN4	1.53GHz Low Pass Filter	Jun. 14, 2023	Apr. 19, 2024~ Apr. 20, 2024	Jun. 13, 2024	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0SS	SN2	3GHz High Pass Filter	Jul. 10, 2023	Apr. 19, 2024~ Apr. 20, 2024	Jul. 09, 2024	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN5	6.75GHz High Pass Filter	Mar. 08, 2024	Apr. 19, 2024~ Apr. 20, 2024	Mar. 07, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 07, 2024	Apr. 19, 2024~ Apr. 20, 2024	Feb. 06, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2, 804012/2	18GHz ~40GHz	Jan. 02, 2024	Apr. 19, 2024~ Apr. 20, 2024	Jan. 01, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30MHz~18GHz	Feb. 07, 2024	Apr. 19, 2024~ Apr. 20, 2024	Feb. 06, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30MHz~18GHz	Feb. 07, 2024	Apr. 19, 2024~ Apr. 20, 2024	Feb. 06, 2025	Radiation (03CH13-HY)
Hygrometer	TECEP	DTM-303A	TP215159	N/A	Sep. 13, 2023	Apr. 19, 2024~ Apr. 20, 2024	Sep. 12, 2024	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 19, 2024~ Apr. 20, 2024	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Apr. 19, 2024~ Apr. 20, 2024	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Apr. 19, 2024~ Apr. 20, 2024	N/A	Radiation (03CH13-HY)
Software	Audix	N/A	RK-001124	N/A	N/A	Apr. 19, 2024~ Apr. 20, 2024	N/A	Radiation (03CH13-HY)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.2 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

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

Test Engineer:	Eason Huang	Temperature:	21~25	°C
Test Date:	2024/4/15	Relative Humidity:	51~54	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	1Mbps	1	0	2402	1.036	0.712	0.50	Pass
BLE	1Mbps	1	19	2440	1.044	0.713	0.50	Pass
BLE	1Mbps	1	39	2480	1.048	0.728	0.50	Pass

TEST RESULTS DATA Average Power Table

Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	3.30	30.00	1.44	4.74	36.00	Pass
BLE	1Mbps	1	19	2440	3.20	30.00	1.44	4.64	36.00	Pass
BLE	1Mbps	1	39	2480	3.30	30.00	1.44	4.74	36.00	Pass

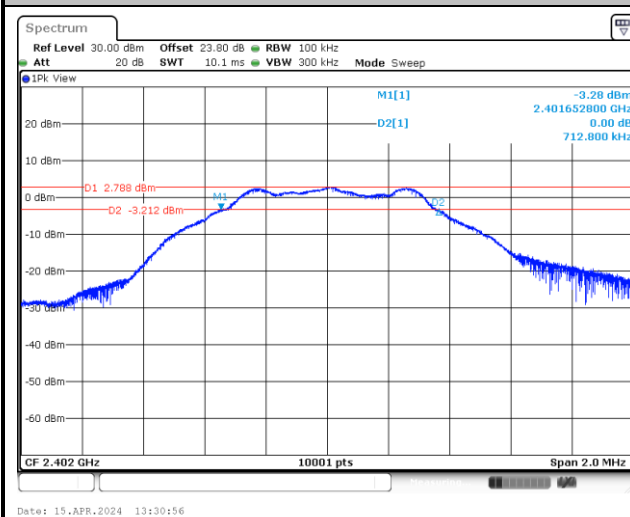
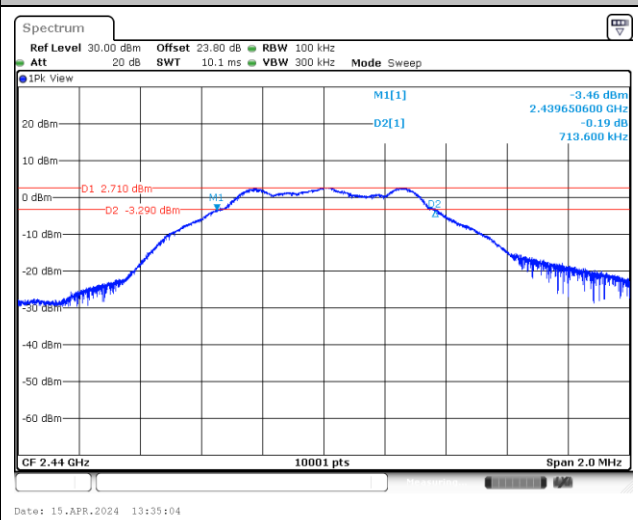
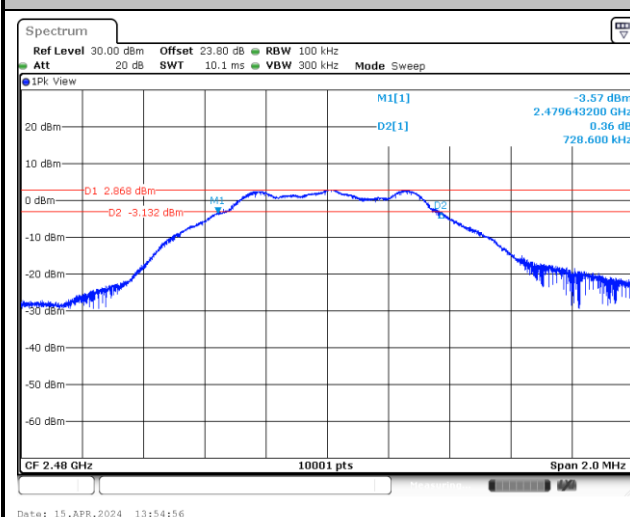
TEST RESULTS DATA Peak Power Density

Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	1Mbps	1	0	2402	2.79	-11.74	1.44	8.00	Pass
BLE	1Mbps	1	19	2440	2.72	-11.93	1.44	8.00	Pass
BLE	1Mbps	1	39	2480	2.87	-11.83	1.44	8.00	Pass

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

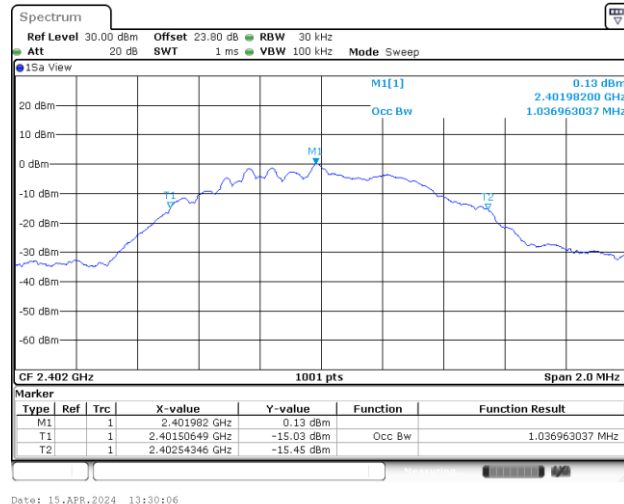
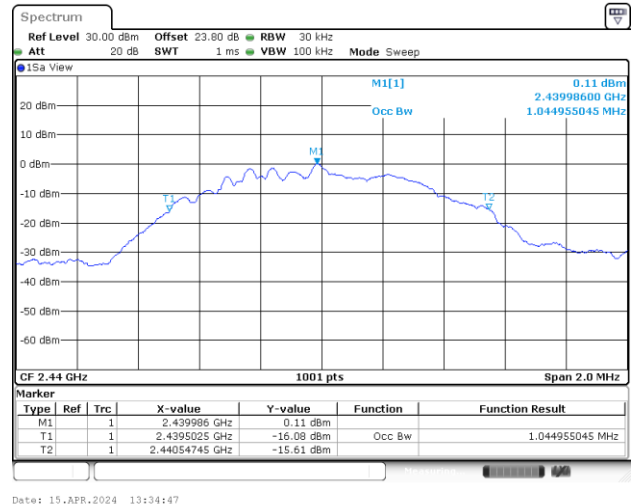
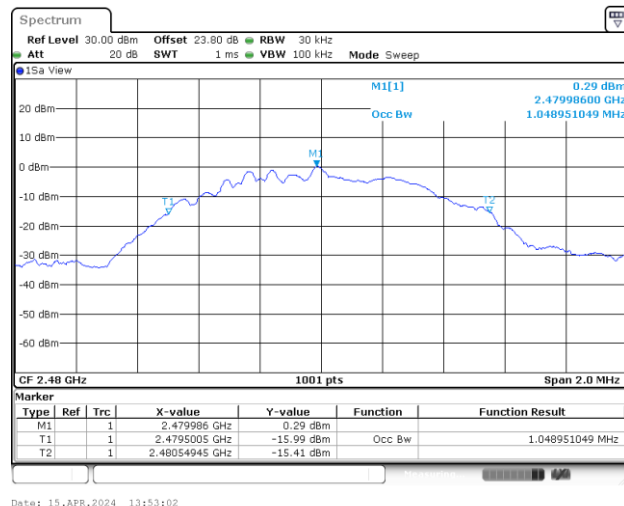
**6dB Bandwidth**

<1Mbps>

6 dB Bandwidth Plot on Channel 00**6 dB Bandwidth Plot on Channel 19****6 dB Bandwidth Plot on Channel 39**

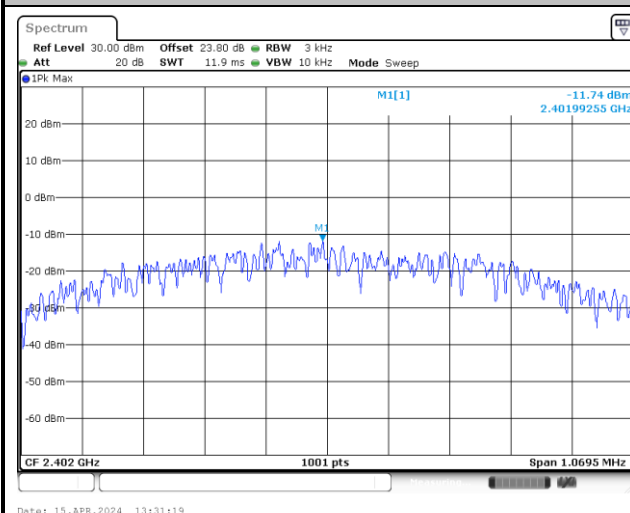
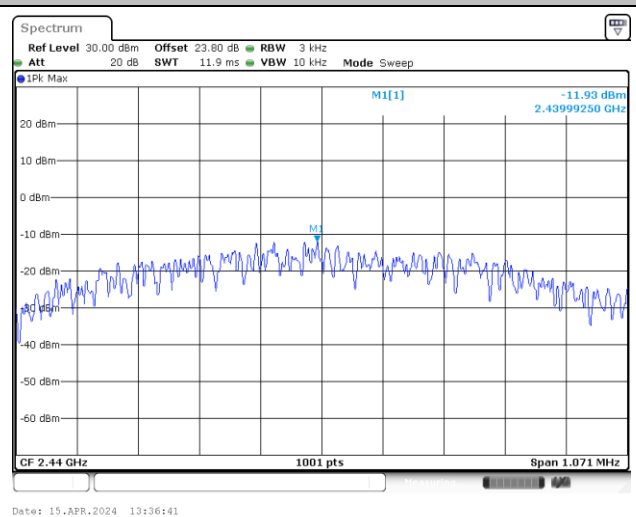
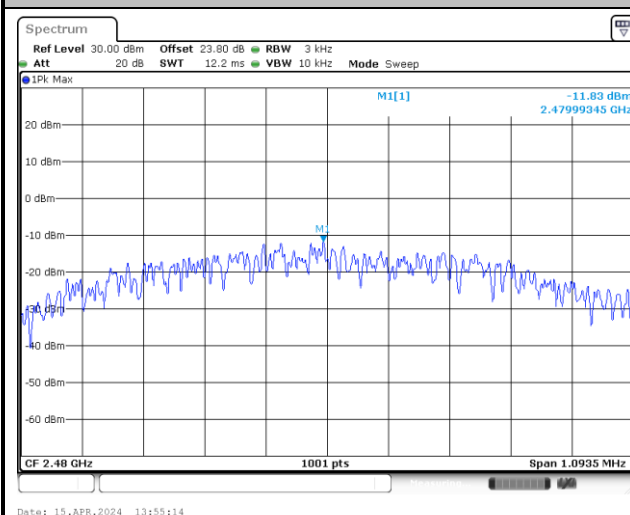
**99% Occupied Bandwidth**

<1Mbps>

99% Occupied Bandwidth Plot on Channel 00**99% Occupied Bandwidth Plot on Channel 19****99% Occupied Bandwidth Plot on Channel 39**

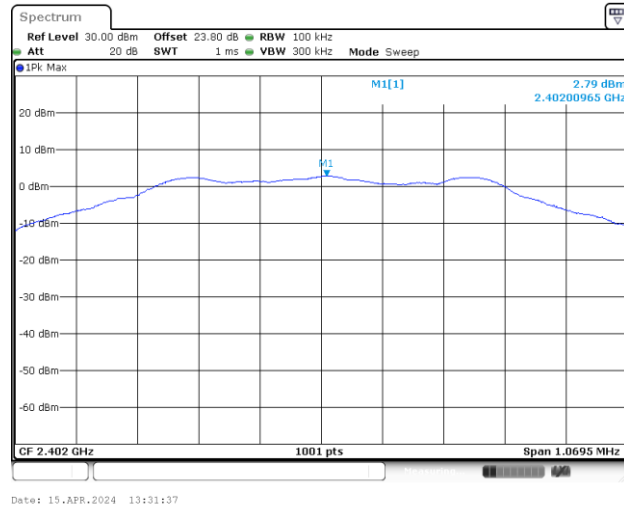
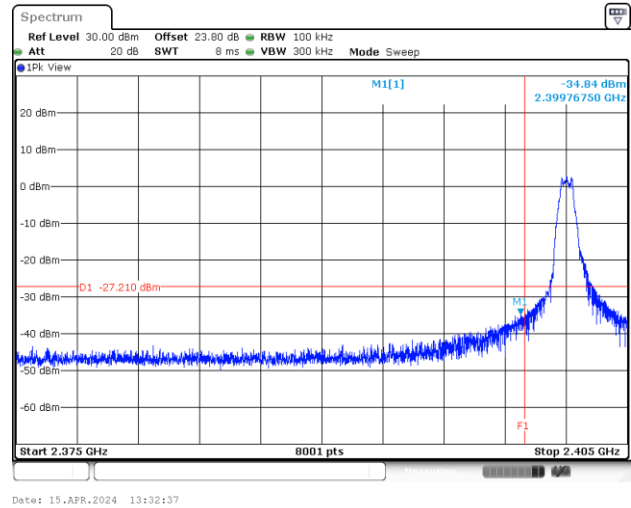
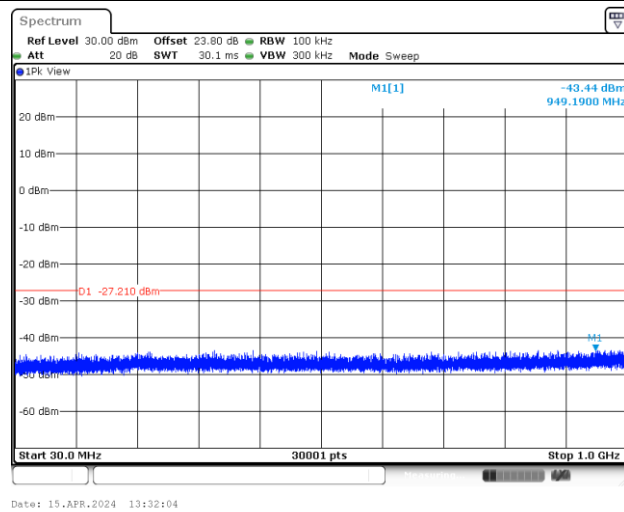
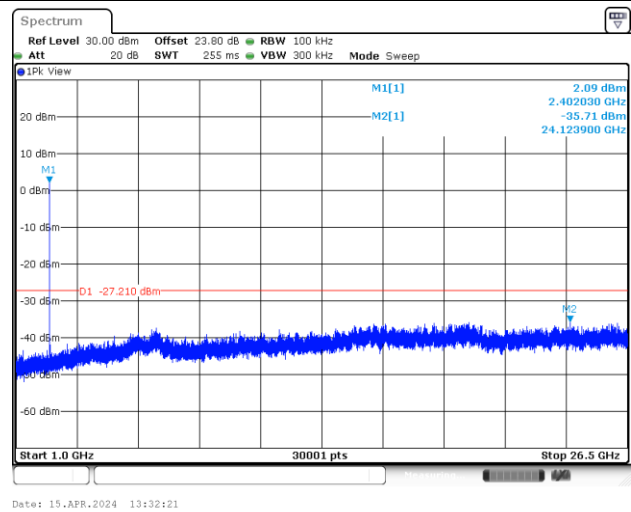
**Power Spectral Density (dBm/3kHz)**

<1Mbps>

Power Density (dBm/3kHz) Plot Channel 00**Power Density (dBm/3kHz) Plot Channel 19****Power Density (dBm/3kHz) Plot Channel 39**

**Band Edge and Conducted Spurious Emission**

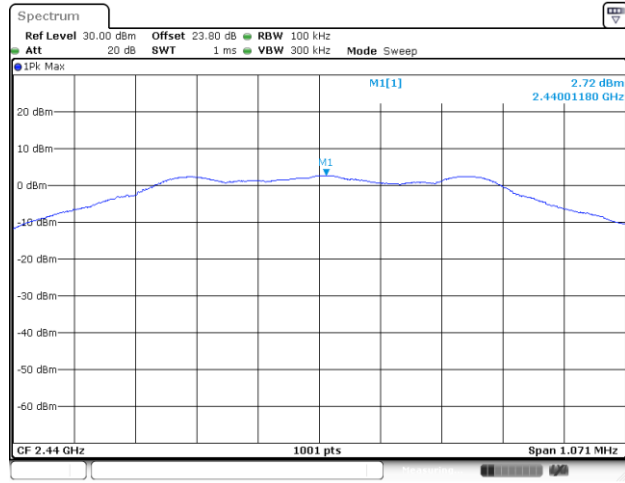
<1Mbps>

Channel 00**100kHz PSD reference Level Plot****Low Channel Plot****Spurious Emission 30MHz~1GHz Plot****Spurious Emission 1GHz~26.5GHz Plot**



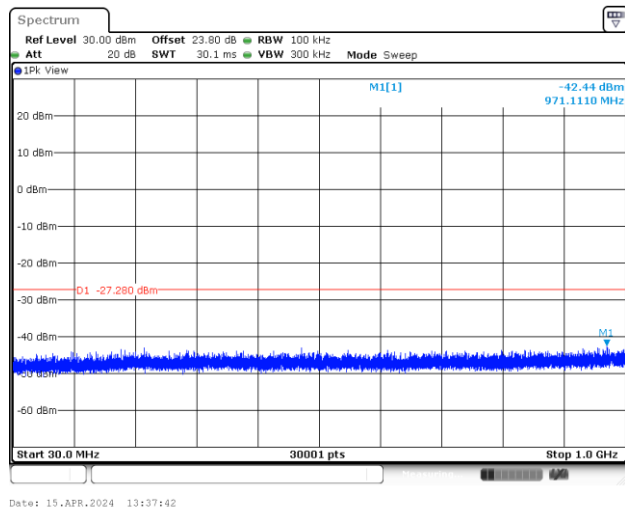
Channel 19

100kHz PSD reference Level Plot

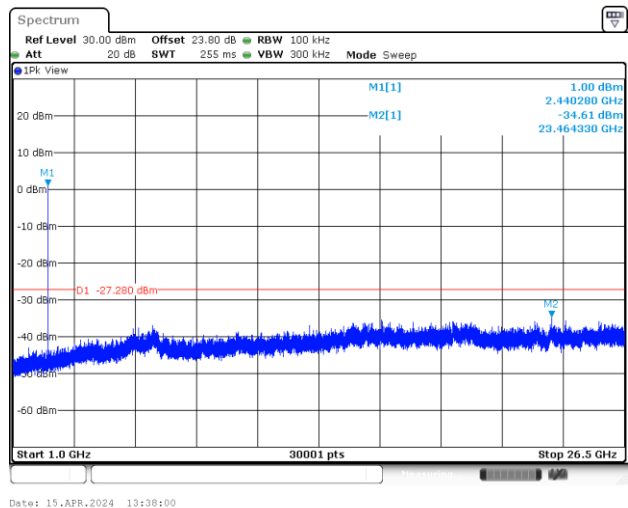


Mid Channel Plot

Spurious Emission 30MHz~1GHz Plot



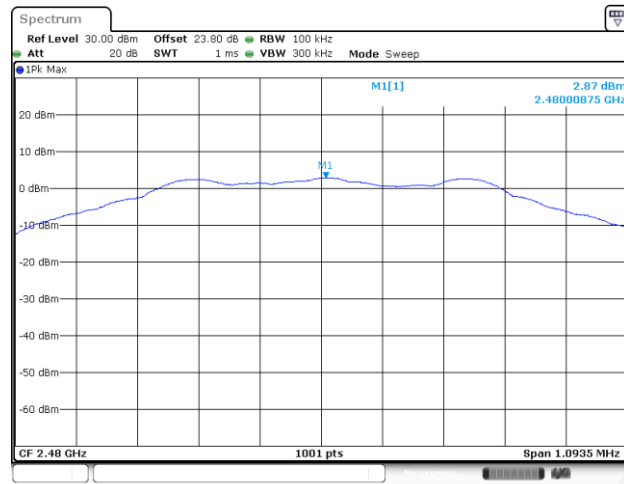
Spurious Emission 1GHz~26.5GHz Plot



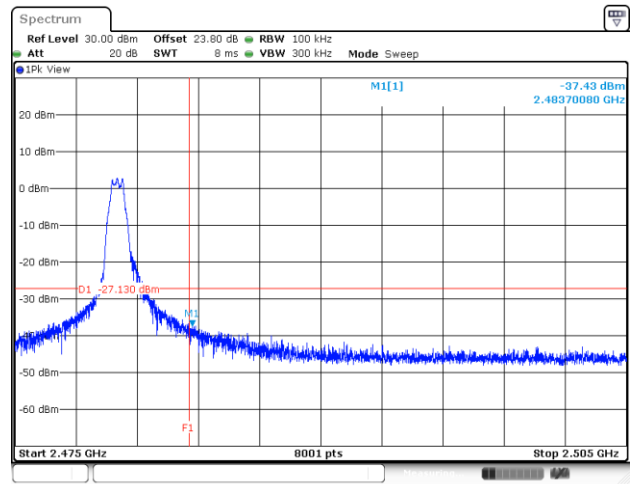


Channel 39

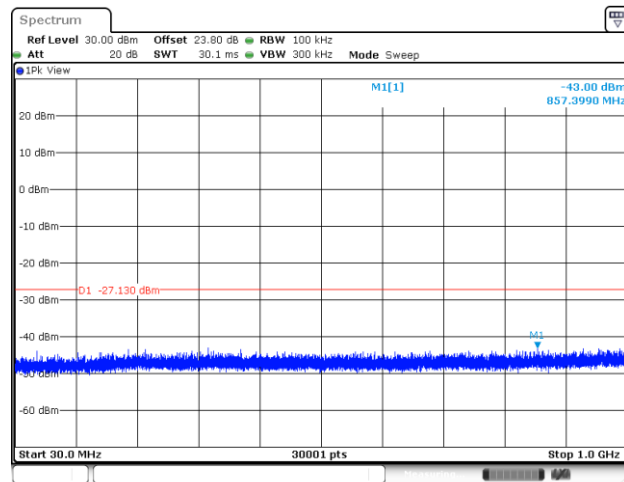
100kHz PSD reference Level Plot



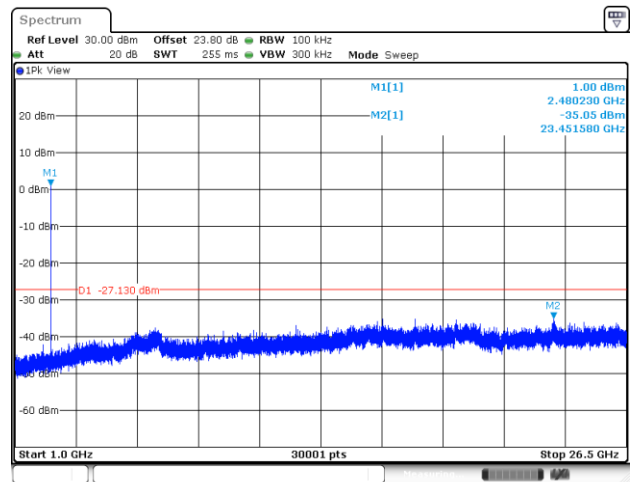
High Channel Plot



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot





Appendix B. Radiated Spurious Emission

Test Engineer :	Rain Lee, Jacky Hong, and Mancy Chou	Temperature :	20~26°C
		Relative Humidity :	40~65%

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		2390	61.18	-12.82	74	56.14	27.5	14.62	37.08	100	86	P	H
		2390	20.56	-33.44	54	-	-	-	-	100	86	A	H
	*	2402	98.66	-	-	93.61	27.5	14.63	37.08	100	86	P	H
	*	2402	58.04	-	-	-	-	-	-	100	86	A	H
													H
		2388.54	56.23	-17.77	74	51.2	27.49	14.62	37.08	389	169	P	V
		2388.54	15.61	-38.39	54	-	-	-	-	389	169	A	V
	*	2402	94.78	-	-	89.73	27.5	14.63	37.08	389	169	P	V
	*	2402	54.16	-	-	-	-	-	-	389	169	A	V
													V
BLE CH 19 2440MHz		2380.98	50.63	-23.37	74	45.69	27.41	14.61	37.08	100	81	P	H
		2380.98	10.01	-43.99	54	-	-	-	-	100	81	A	H
	*	2440	97.87	-	-	92.68	27.6	14.67	37.08	100	81	P	H
	*	2440	87.25	-	-	-	-	-	-	100	81	A	H
		2485.79	51.63	-22.37	74	46.18	27.8	14.72	37.07	100	81	P	H
		2485.79	11.01	-42.99	54	-	-	-	-	100	81	A	H
		2360.12	48.59	-25.41	74	43.79	27.3	14.59	37.09	373	170	P	V
		2360.12	7.97	-46.03	54	-	-	-	-	373	170	A	V
	*	2440	91.17	-	-	85.98	27.6	14.67	37.08	373	170	P	V
	*	2440	50.55	-	-	-	-	-	-	373	170	A	V
		2485.86	49.13	-24.87	74	43.68	27.8	14.72	37.07	373	170	P	V
		2485.86	8.51	-45.49	54	-	-	-	-	373	170	A	V



BLE CH 39 2480MHz	*	2480	97.37	-	-	91.92	27.8	14.72	37.07	107	80	P	H
	*	2480	56.75	-	-	-	-	-	-	107	80	A	H
		2483.52	70.59	-3.41	74	65.14	27.8	14.72	37.07	107	80	P	H
		2483.52	29.97	-24.03	54	-	-	-	-	107	80	A	H
													H
													H
	*	2480	90.29	-	-	84.84	27.8	14.72	37.07	400	165	P	V
	*	2480	49.67	-	-	-	-	-	-	400	165	A	V
		2483.68	63.97	-10.03	74	58.52	27.8	14.72	37.07	400	165	P	V
		2483.52	23.35	-30.65	54	-	-	-	-	400	165	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz****BLE (Harmonic @ 3m)**

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 00 2402MHz		4804	51.57	-22.43	74	69.36	32.32	6.82	57.4	100	120	P	H
		7206	56.89	-17.11	74	67.1	36.91	8.94	56.64	100	22	P	H
		7206	16.27	-37.73	54	-	-	-	-	100	22	A	H
		12010	58.2	-15.8	74	63.73	38.74	11.34	55.93	100	59	P	H
		12010	17.58	-36.42	54	-	-	-	-	100	59	A	H
		14412	53.08	-20.92	74	57.27	40.4	12.05	57.29	-	-	P	H
		16814	48.34	-25.66	74	52.24	38.13	13.23	55.69	-	-	P	H
													H
													H
													H
													H
													H
		4804	42.82	-31.18	74	60.61	32.32	6.82	57.4	-	-	P	V
		7202	51.88	-22.12	74	62.1	36.9	8.94	56.64	-	-	P	V
		12010	58.57	-15.43	74	64.1	38.74	11.34	55.93	100	297	P	V
		12010	17.95	-36.05	54	64.1	38.74	11.34	55.93	100	297	A	V
		14412	53.32	-20.68	74	57.51	40.4	12.05	57.29	-	-	P	V
		16814	48.44	-25.56	74	52.34	38.13	13.23	55.69	-	-	P	V
													V
													V
													V
													V
													V
													V



BLE	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 19 2440MHz		4880	53.47	-20.53	74	70.46	32.66	7.53	57.18	100	121	P	H
		7320	59.1	-14.9	74	69.54	36.92	9.48	56.84	102	279	P	H
		7320	18.48	-35.52	54	-	-	-	-	102	279	A	H
		12200	58.3	-15.7	74	63.55	39	11.79	56.04	108	61	P	H
		12200	17.68	-36.32	54	-	-	-	-	108	61	A	H
													H
													H
													H
													H
													H
													H
													H
		4880	50.28	-23.72	74	67.27	32.66	7.53	57.18	393	42	P	V
		7320	54.23	-19.77	74	64.67	36.92	9.48	56.84	101	88	P	V
		7320	13.61	-40.39	54	-	-	-	-	101	88	A	V
		12200	60.05	-13.95	74	65.3	39	11.79	56.04	100	302	P	V
		12200	19.43	-34.57	54	-	-	-	-	100	302	A	V
													V
													V
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													V
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													V
													V



BLE	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 39 2480MHz		4960	54.93	-19.07	74	71.05	33.06	7.77	56.95	100	120	P	H
		4960	14.31	-39.69	54	-	-	-	-	100	120	A	H
		7440	59.93	-14.07	74	71.1	36.42	9.46	57.05	100	279	P	H
		7440	19.31	-34.69	54	-	-	-	-	100	279	A	H
		12400	58.03	-15.97	74	63.16	39.1	11.93	56.16	111	60	P	H
		12400	17.41	-36.59	54	-	-	-	-	111	60	A	H
													H
													H
													H
													H
													H
													H
		4960	51.67	-22.33	74	67.79	33.06	7.77	56.95	400	43	P	V
		7440	54.13	-19.87	74	65.3	36.42	9.46	57.05	102	89	P	V
		7440	13.51	-40.49	54	-	-	-	-	102	89	A	V
		12400	60.89	-13.11	74	66.02	39.1	11.93	56.16	105	299	P	V
		12400	20.27	-33.73	54	-	-	-	-	105	299	A	V
													V
													V
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													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission above 18GHz

2.4GHz BLE (SHF)

BT	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BLE SHF		19840	44.7	-29.3	74	65.22	37.96	-3.42	55.06	150	94	P	H
		22320	46.43	-27.57	74	65.92	38.28	-3.03	54.74	150	132	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		19840	43.18	-30.82	74	63.7	37.96	-3.42	55.06	150	19	P	V
		22320	44.56	-29.44	74	64.05	38.28	-3.03	54.74	150	310	P	V
													V
													V
													V
													V
													V
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													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Emission below 1GHz

2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BLE LF		64.29	25.98	-14.02	40	45.05	11.8	1.38	32.25	-	-	P	H
		109.65	22.04	-21.46	43.5	35.76	17.01	1.54	32.27	-	-	P	H
		273.27	19.55	-26.45	46	30.77	18.83	2.06	32.11	-	-	P	H
		468.7	23.9	-22.1	46	30.18	23.44	2.45	32.17	-	-	P	H
		642.3	27.19	-18.81	46	30.24	26.37	2.79	32.21	-	-	P	H
		896.4	33.67	-12.33	46	32.97	28.92	3.23	31.45	-	-	P	H
													H
													H
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													H
													H
		30.81	33.66	-6.34	40	40.85	24.03	1.1	32.32	-	-	P	V
		64.02	33.88	-6.12	40	52.96	11.8	1.37	32.25	-	-	P	V
		263.01	19.39	-26.61	46	29.48	20	2.03	32.12	-	-	P	V
		465.2	24.17	-21.83	46	30.55	23.35	2.44	32.17	-	-	P	V
		713.7	33.41	-12.59	46	35.78	26.83	2.92	32.12	-	-	P	V
		937	33.2	-12.8	46	30.74	30.28	3.28	31.1	-	-	P	V
													V
													V
													V
													V
													V
												V	
Remark	1. No other spurious found.												
	2. All results are PASS against limit line.												
	3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												



Note symbol

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

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

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

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Margin (dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Margin (dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

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



Appendix C. Radiated Spurious Emission Plots

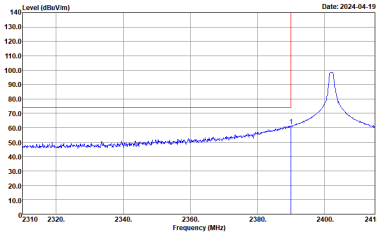
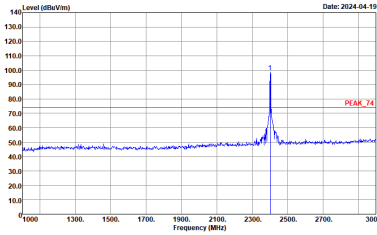
Test Engineer :	Rain Lee, Jacky Hong, and Mancy Chou	Temperature :	20~26°C
		Relative Humidity :	40~65%

Note symbol

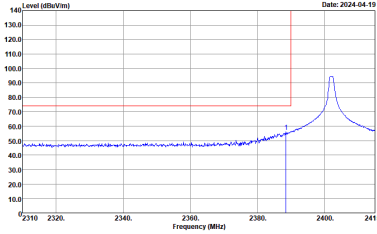
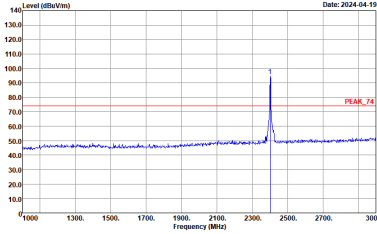
-L	Low channel location
-R	High channel location



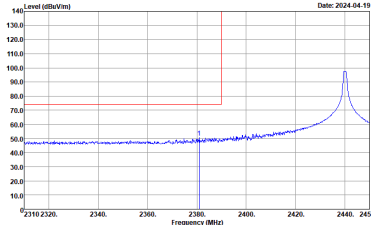
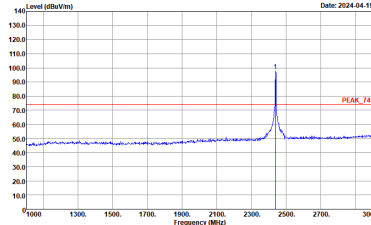
2.4GHz 2400~2483.5MHz
BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BC_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

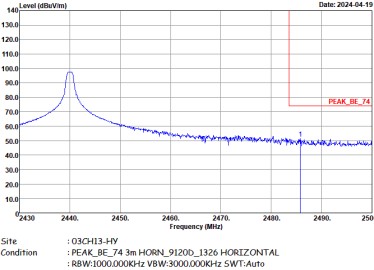


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
	Vertical	Fundamental
Peak	 Site : 03CH13-14Y Condition : PEAK_BE_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-14Y Condition : PEAK_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

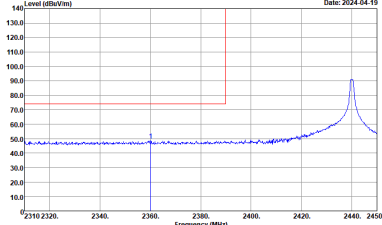
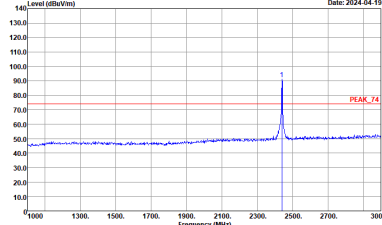


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

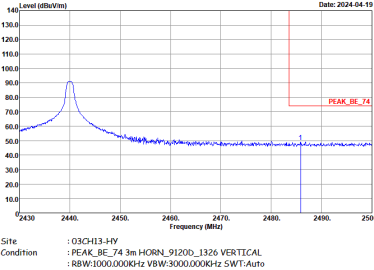


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
	Horizontal	Fundamental
Peak		Left blank



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
	Vertical	Fundamental
Peak	 Site : 03CH13-1FY Condition : PEAK_BC_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-1FY Condition : PEAK_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

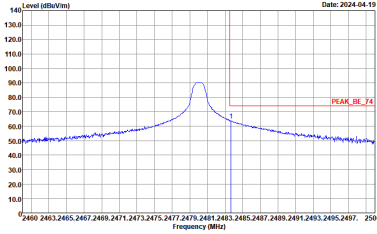
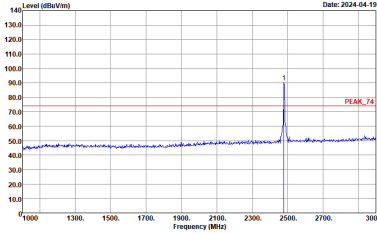


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
	Vertical	Fundamental
Peak		Left blank



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
	Horizontal	Fundamental
Peak	Site : 03CH13-14Y Condition : PEAK_BE_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH13-14Y Condition : PEAK_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
	Vertical	Fundamental
Peak	 Site : 03CH13-14Y Condition : PEAK_BE_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-14Y Condition : PEAK_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



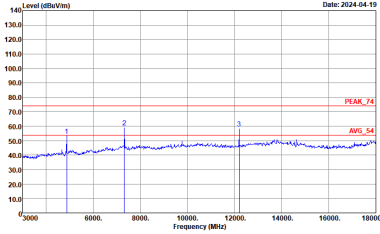
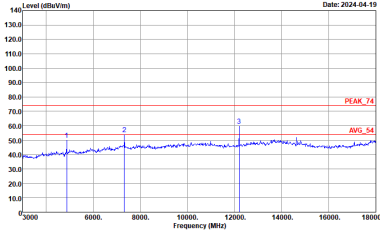
2.4GHz 2400~2483.5MHz
BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
	Horizontal	Vertical
Peak Avg.	Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL :	Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL :



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) Date: 2024-04-19 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL	Level (dBuV/m) Date: 2024-04-19 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL
	Level (dBuV/m) Date: 2024-04-19 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL	Level (dBuV/m) Date: 2024-04-19 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL

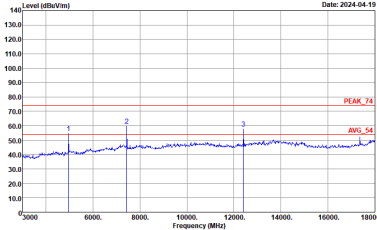
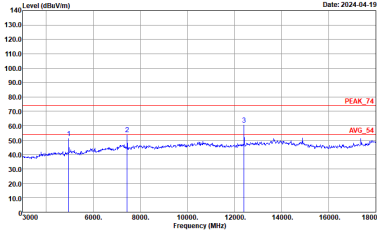


BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-11Y Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-11Y Condition : PEAK_74 3m HORN_91200_1326 VERTICAL :



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHZ	
	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) Date: 2024-04-19 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL	Level (dBuV/m) Date: 2024-04-19 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL
	Level (dBuV/m) Date: 2024-04-19 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL	Level (dBuV/m) Date: 2024-04-19 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL



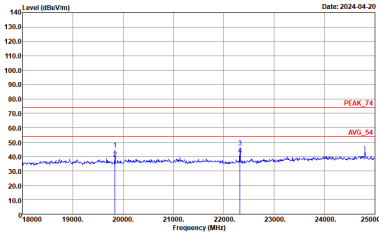
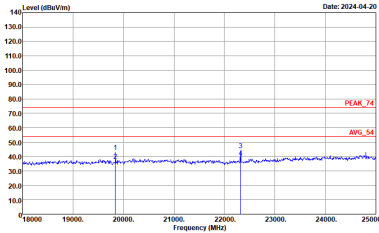
BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz	
	Horizontal	Vertical
Peak	 Site : 03CH13-1F Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-1F Condition : PEAK_74 3m HORN_91200_1326 VERTICAL :



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHZ	
	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) Date: 2024-04-19 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL	Level (dBuV/m) Date: 2024-04-19 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL
	Level (dBuV/m) Date: 2024-04-19 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 HORIZONTAL	Level (dBuV/m) Date: 2024-04-19 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL

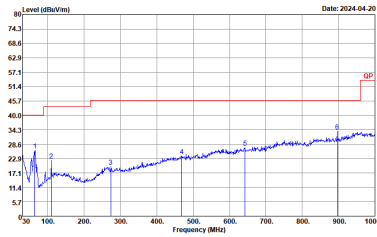
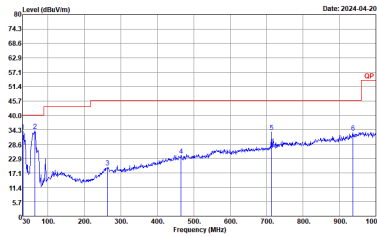


Emission above 18GHz
2.4GHz BLE (SHF @ 1m)

BLE	2.4GHz 2400~2483.5MHz	
ANT	BLE SHF	
	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 1m SHF_1224_230710 HORIZONTAL :	 Site : 03CH13-HY Condition : PEAK_74 1m SHF_1224_230710 VERTICAL :



Emission below 1GHz
2.4GHz BLE (LF)

BLE	2.4GHz 2400~2483.5MHz	
ANT	BLE LF	
	Horizontal	Vertical
QP / Peak	 Site : 03CH13-HV Condition : QP 3m B1L06_03CH16_30-300M HORIZONTAL :	 Site : 03CH13-HV Condition : QP 3m B1L06_03CH16_300M-1G VERTICAL :