



FCC RADIO TEST REPORT

FCC ID : MG3-R329451A00
Equipment : Innovative Systems Logan RCU
Brand Name : Universal Electronics
Model Name : Innovative Systems Logan RCU
Applicant : Universal Electronics
 15147 N Scottsdale Rd Ste H300, Scottsdale, AZ 85254
Manufacturer : Universal Electronics
 15147 N Scottsdale Rd Ste H300, Scottsdale, AZ 85254
Standard : FCC Part 15 Subpart C §15.247

The product was received on Mar. 31, 2025 and testing was performed from Apr. 02, 2025 to Apr. 21, 2025. We, Sporton International (USA) Inc, 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 (USA) Inc, the test report shall not be reproduced except in full.

Approved by: Neil Kao

Sportun International (USA) Inc.
1175 Montague Expressway, Milpitas, CA 95035



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History of this test report



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	-
-	15.207	AC Conducted Emission	Not Required	See Note
3.6	15.203	Antenna Requirement	Pass	-

Note:

The power source method of the EUT is to use battery (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/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

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



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs	
Bluetooth	
Antenna Type	
Bluetooth: PCB trace Antenna	
Antenna information	
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi) -0.15

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	Sportun International (USA) Inc.
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300
Test Site No.	Sportun Site No.
	TH01-CA, 03CH02-CA

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

FCC Designation No.: US1250

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 C63.10-2020

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.



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	-	-



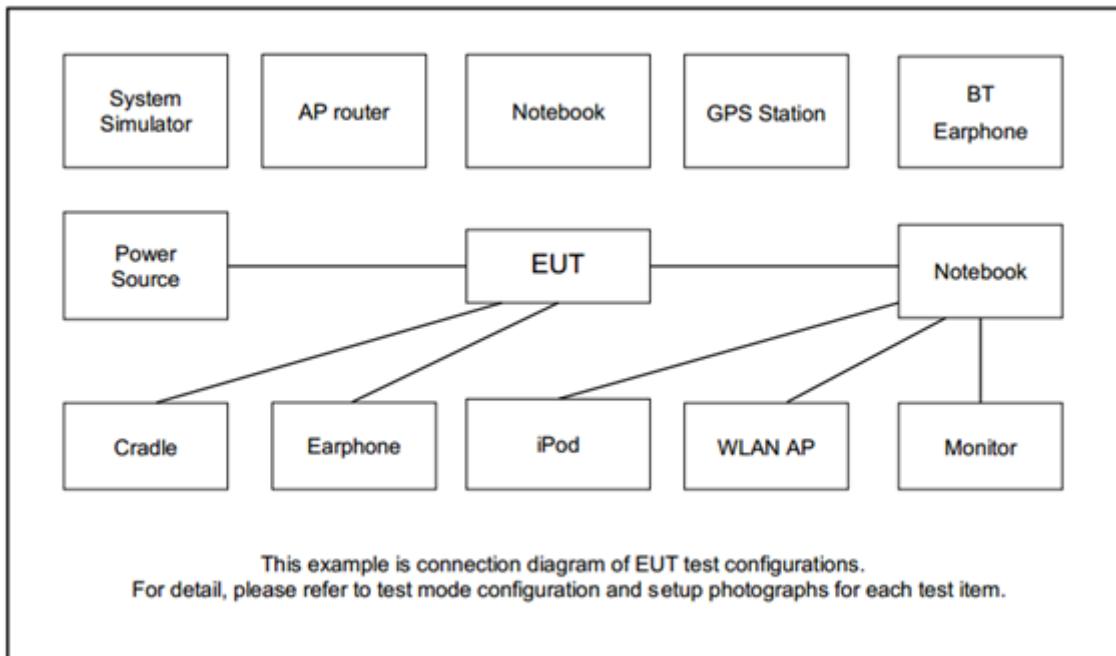
2.2 Test Mode

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

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

The RF test items, utility “RadioControlConsole 4.0.0.0” was installed in Laptop 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.

2.5 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.

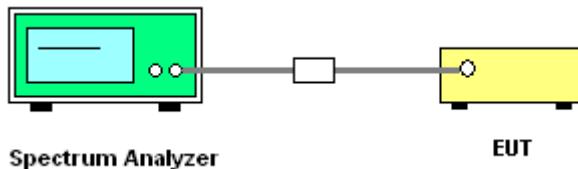
3.1.2 Measuring Instruments

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) $\geq 3 * \text{RBW}$.
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.

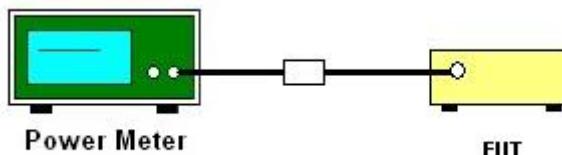
3.2.2 Measuring Instruments

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.

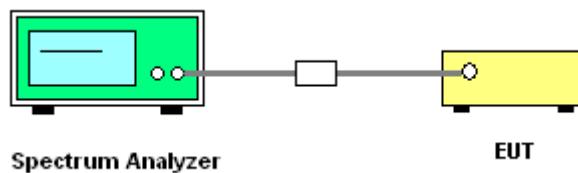
3.3.2 Measuring Instruments

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.

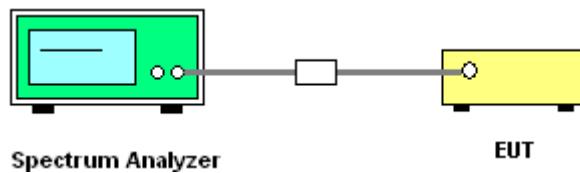
3.4.2 Measuring Instruments

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 transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.5.2 Measuring Instruments

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



3.5.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.For average measurement:
Applied protocol-limited duty cycle measurement method as per KDB 558074 D01 QA.3
Subtracted the Peak reading to derive the RMS average value.

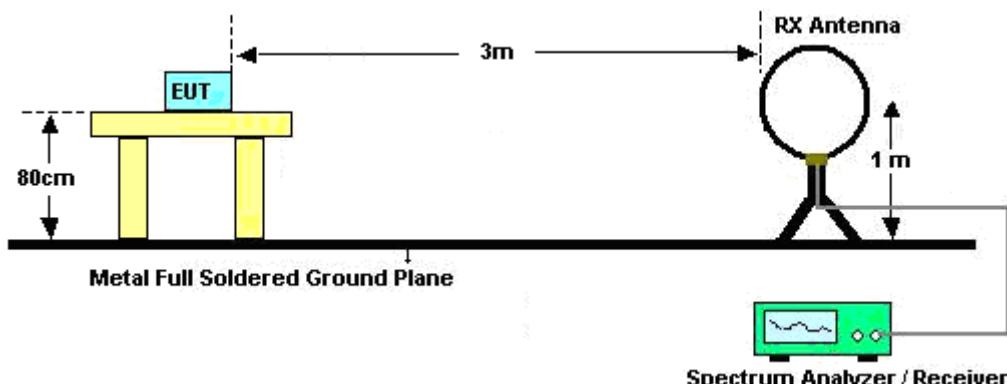
Calculation example,

Duty Cycle percentage is limited to maximum 0.589%, duty factor = $20\log(0.00589) = 44.59$ (dB). Average value = Peak value (59.15dBuV/m) – 44.59 (dB) = 14.56 dBuV/m.

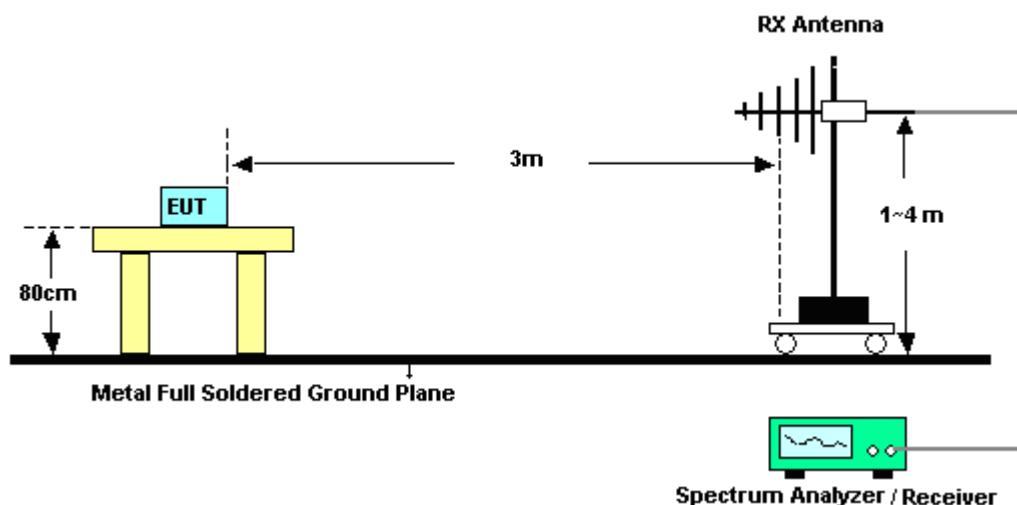
Detailed method to limit duty cycle will be addressed at the operation description from manufacturer.

3.5.4 Test Setup

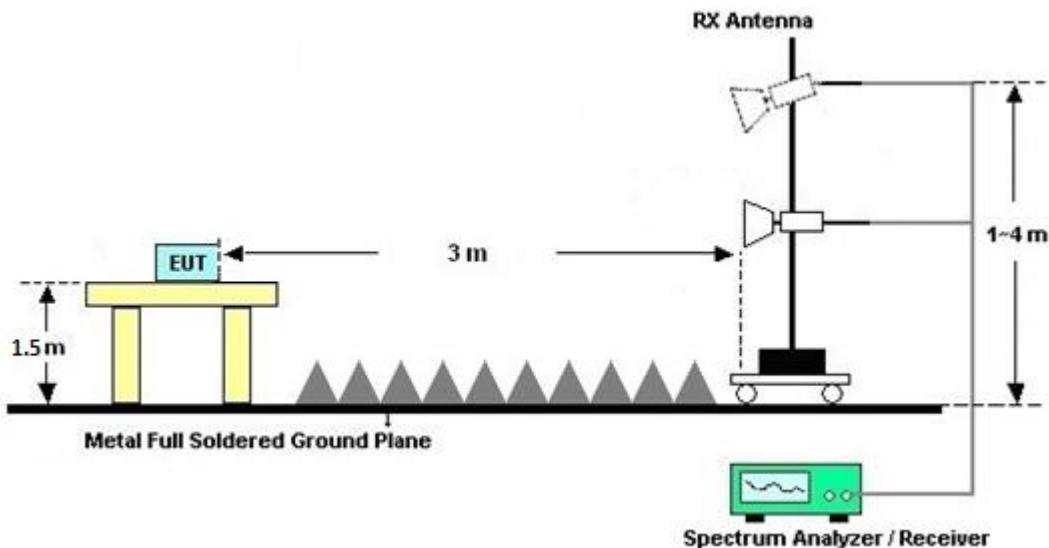
For radiated test below 30MHz



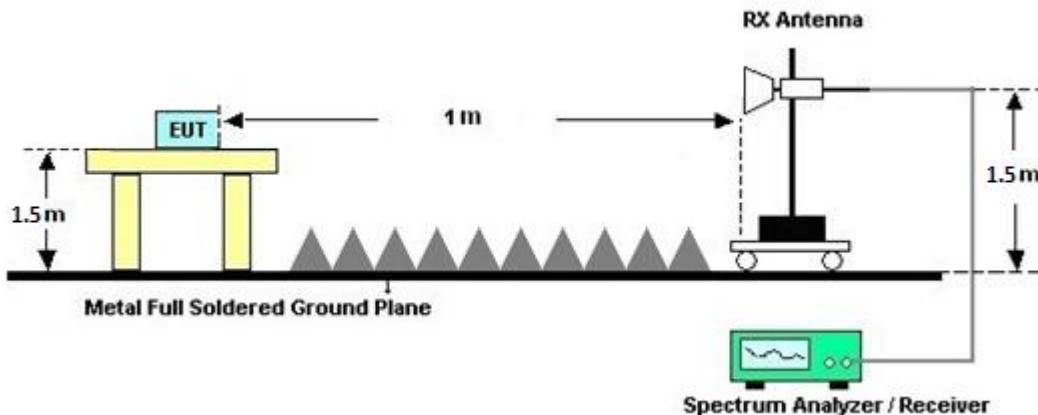
For radiated test from 30MHz to 1GHz



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.

3.5.7 Duty Cycle

Please refer to Appendix C.

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

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 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.

3.6.2 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	Testo	608-H1	45141354	N/A	Aug. 14,2024	Apr. 21,2025	Aug. 13,2025	Conducted (TH01-CA)
Power Sensor	DARE!!	RPR3008W	RPR8W-2301 002	10MHz-8GHz	Jan. 24,2024	Apr. 21,2025	Jan. 23,2026	Conducted (TH01-CA)
Switch Box	EM Electronics	EMSW26	1090304	N/A	Oct. 10,2024	Apr. 21,2025	Oct. 09,2025	Conducted (TH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101089	10Hz-40GHz	Apr. 25,2024	Apr. 21,2025	Apr. 24,2025	Conducted (TH01-CA)
Bilog Antenna	TESEQ	6111D	50392	30MHz~1GHz	Aug. 13,2024	Apr. 02, 2025~Apr. 03, 2025	Nov. 12, 2025	Radiation (03CH02-CA)
Loop Antenna	R&S	HFH2-Z2E	100840	9kHz~30MHz	May 02,2024	Apr. 02, 2025~Apr. 03, 2025	May 01, 2025	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02140	1GHz~18GHz	Feb. 07,2025	Apr. 02, 2025~Apr. 03, 2025	Feb. 07, 2026	Radiation (03CH02-CA)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00841	18GHz~40GHz	Aug. 07,2024	Apr. 02, 2025~Apr. 03, 2025	Aug. 06, 2025	Radiation (03CH02-CA)
Amplifier	SONOMA	310N	372240	9kHz~1GHz	Apr. 24,2024	Apr. 02, 2025~Apr. 03, 2025	Apr. 23, 2025	Radiation (03CH02-CA)
Filter	Wainwright	WFKX10-2700-3 000-18000-40SS	SN91	3GHz High Pass Filter	Jun. 04,2024	Apr. 02, 2025~Apr. 03, 2025	Jun. 03, 2025	Radiation (03CH02-CA)
Filter	Wainwright	WLK12-1200-12 72-11000-40SS	SN1	1.2GHz Low Pass Filter	Jun. 04,2024	Apr. 02, 2025~Apr. 03, 2025	Jun. 03, 2025	Radiation (03CH02-CA)
Preamplifier	Keysight	83017A	MY53270321	1GHz~26.5GHz	Apr. 25,2024	Apr. 02, 2025~Apr. 03, 2025	Apr. 24, 2025	Radiation (03CH02-CA)
Preamplifier	E-instrument	ERA-100M-18G-56-01-A70	EC1900251	1GHz~18GHz	Apr. 24,2024	Apr. 02, 2025~Apr. 03, 2025	Apr. 23, 2025	Radiation (03CH02-CA)
Preamplifier	EMEC	EMC18G40G	060725	18G-40G	Apr.24, 2024	Apr. 02, 2025~Apr. 03, 2025	Apr.23, 2025	Radiation (03CH02-CA)
RF Cable	HUBER+SUHNER	SUCOFLEX 102	804209/2, 802406/2, 802875/2, 802952/2	N/A	Oct. 10,2024	Apr. 02, 2025~Apr. 03, 2025	Oct. 09,2025	Radiation (03CH02-CA)
Hygrometer	TESEO	608-H1	45142602	N/A	Aug. 14,2024	Apr. 02, 2025~Apr. 03, 2025	Aug. 13, 2025	Radiation (03CH02-CA)
Controller	Chaintek	EM-1000	060876	Control Turn Table & Antenna Mast	N/A	Apr. 02, 2025~Apr. 03, 2025	N/A	Radiation (03CH02-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Apr. 02, 2025~Apr. 03, 2025	N/A	Radiation (03CH02-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Apr. 02, 2025~Apr. 03, 2025	N/A	Radiation (03CH02-CA)
Test Software	Audix E3	E3	N/A	N/A	N/A	Apr. 02, 2025~Apr. 03, 2025	N/A	Radiation (03CH02-CA)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	3.4 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.0 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.4 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	4.5 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Venkata Kondepudi			Temperature:	20.4	°C
Test Date:	2025/4/21			Relative Humidity:	49.2	%

<u>TEST RESULTS DATA</u> <u>6dB and 99% Occupied Bandwidth</u>								
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	1.051	0.683	0.50	Pass
BLE	1Mbps	1	19	2440	1.051	0.690	0.50	Pass
BLE	1Mbps	1	39	2480	1.051	0.696	0.50	Pass

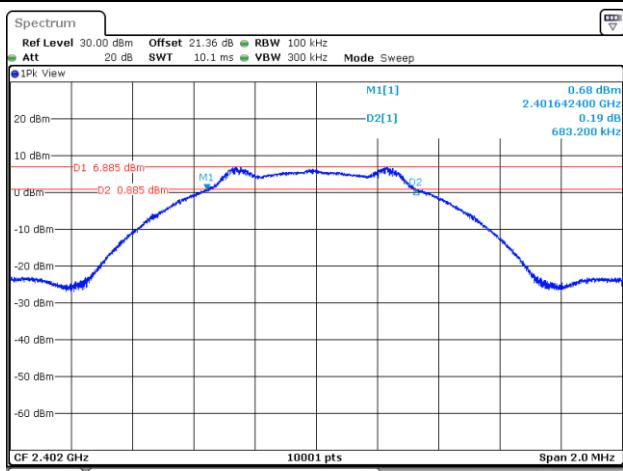
<u>TEST RESULTS DATA</u> <u>Average Power Table</u>										
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	7.22	30.00	-0.15	7.07	36.00	Pass
BLE	1Mbps	1	19	2440	7.33	30.00	-0.15	7.18	36.00	Pass
BLE	1Mbps	1	39	2480	7.34	30.00	-0.15	7.19	36.00	Pass

<u>TEST RESULTS DATA</u> <u>Peak Power Density</u>									
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	6.88	-5.12	-0.15	8.00	Pass
BLE	1Mbps	1	19	2440	7.02	-3.85	-0.15	8.00	Pass
BLE	1Mbps	1	39	2480	7.10	-3.74	-0.15	8.00	Pass

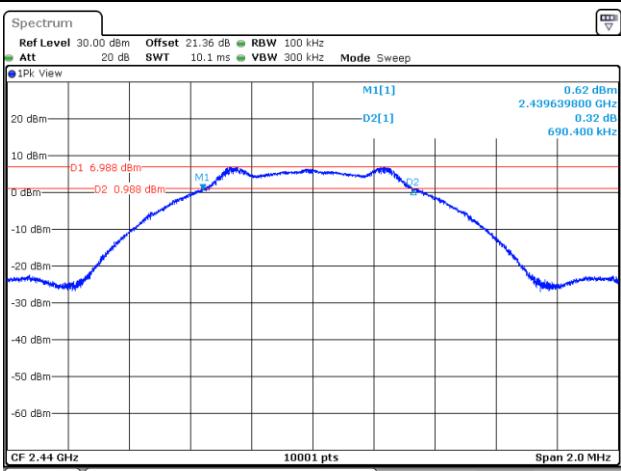
Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

**6dB Bandwidth**

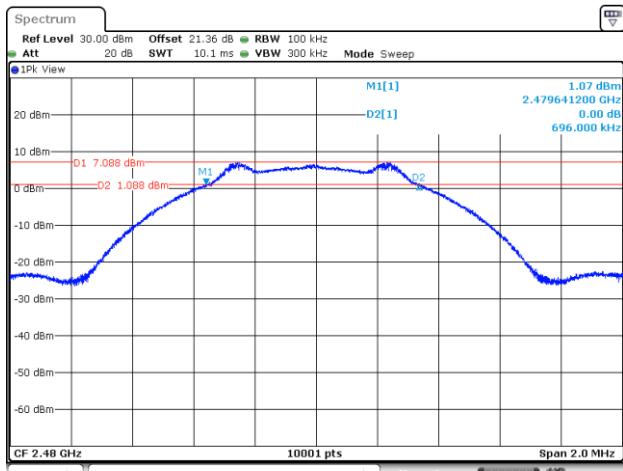
<1M>

6 dB Bandwidth Plot on Channel 00

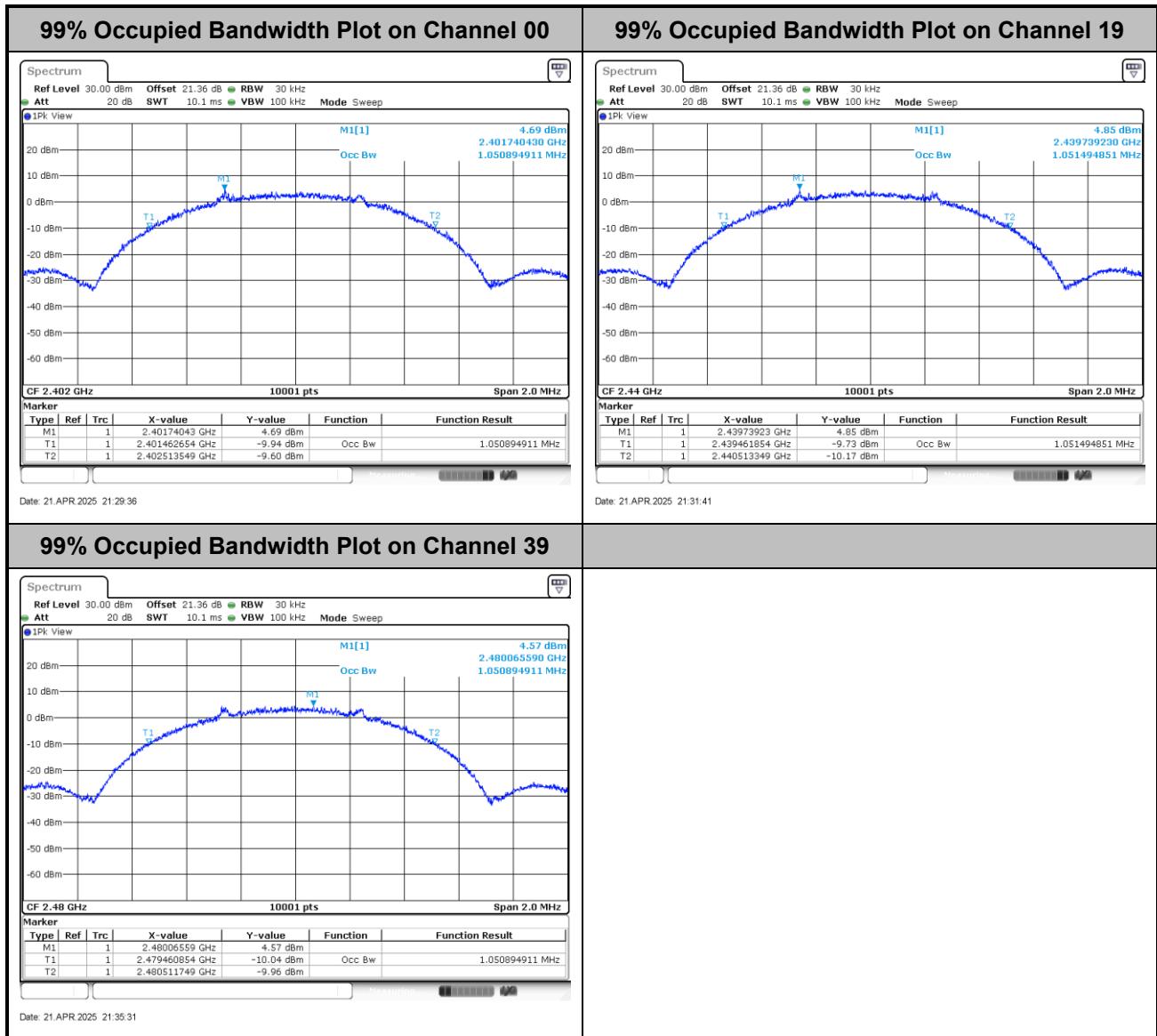
Date: 21 APR 2025 21:26:49

6 dB Bandwidth Plot on Channel 19

Date: 21 APR 2025 21:32:07

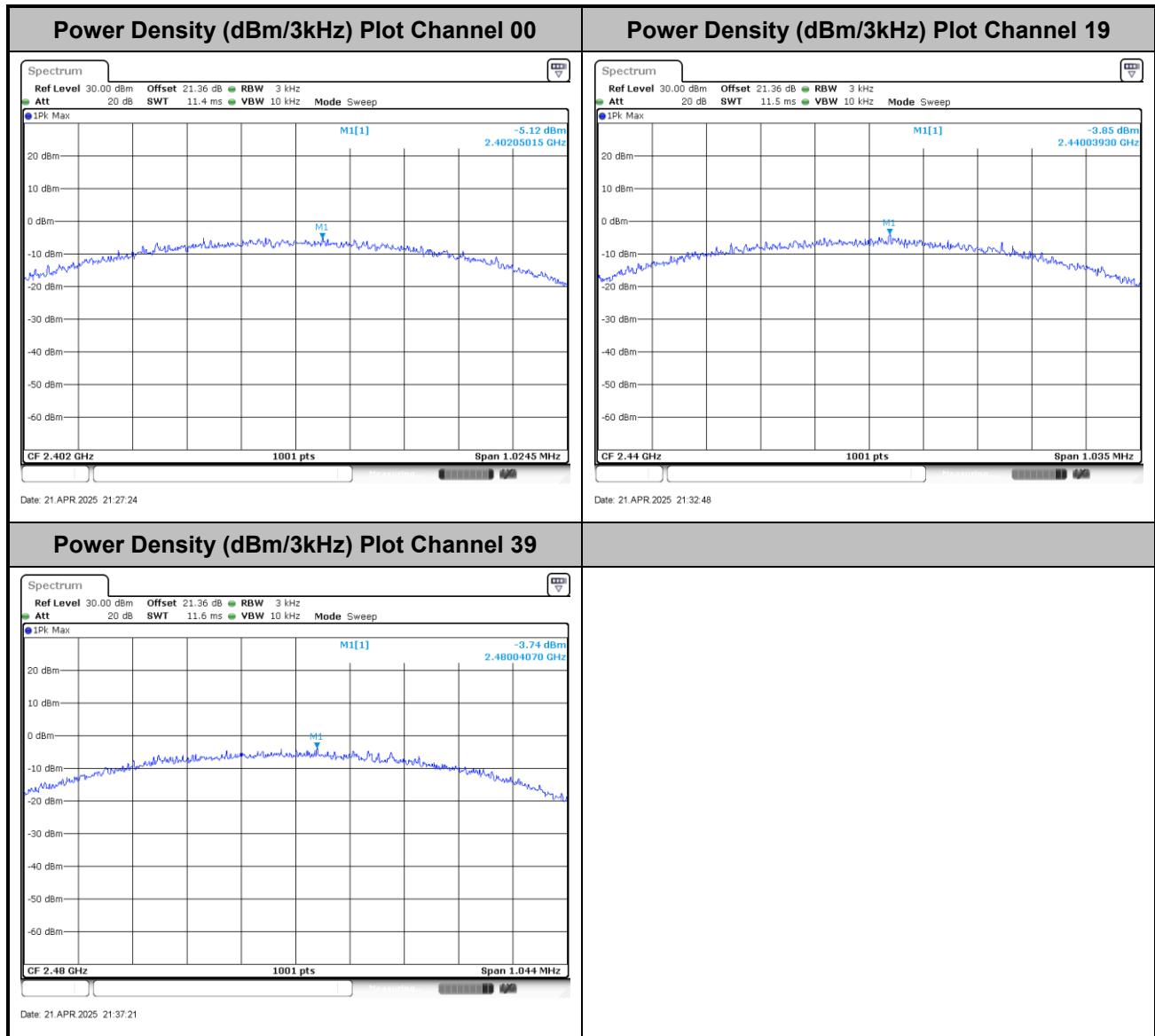
6 dB Bandwidth Plot on Channel 39

Date: 21 APR 2025 21:35:49

99% Occupied Bandwidth
<1M>


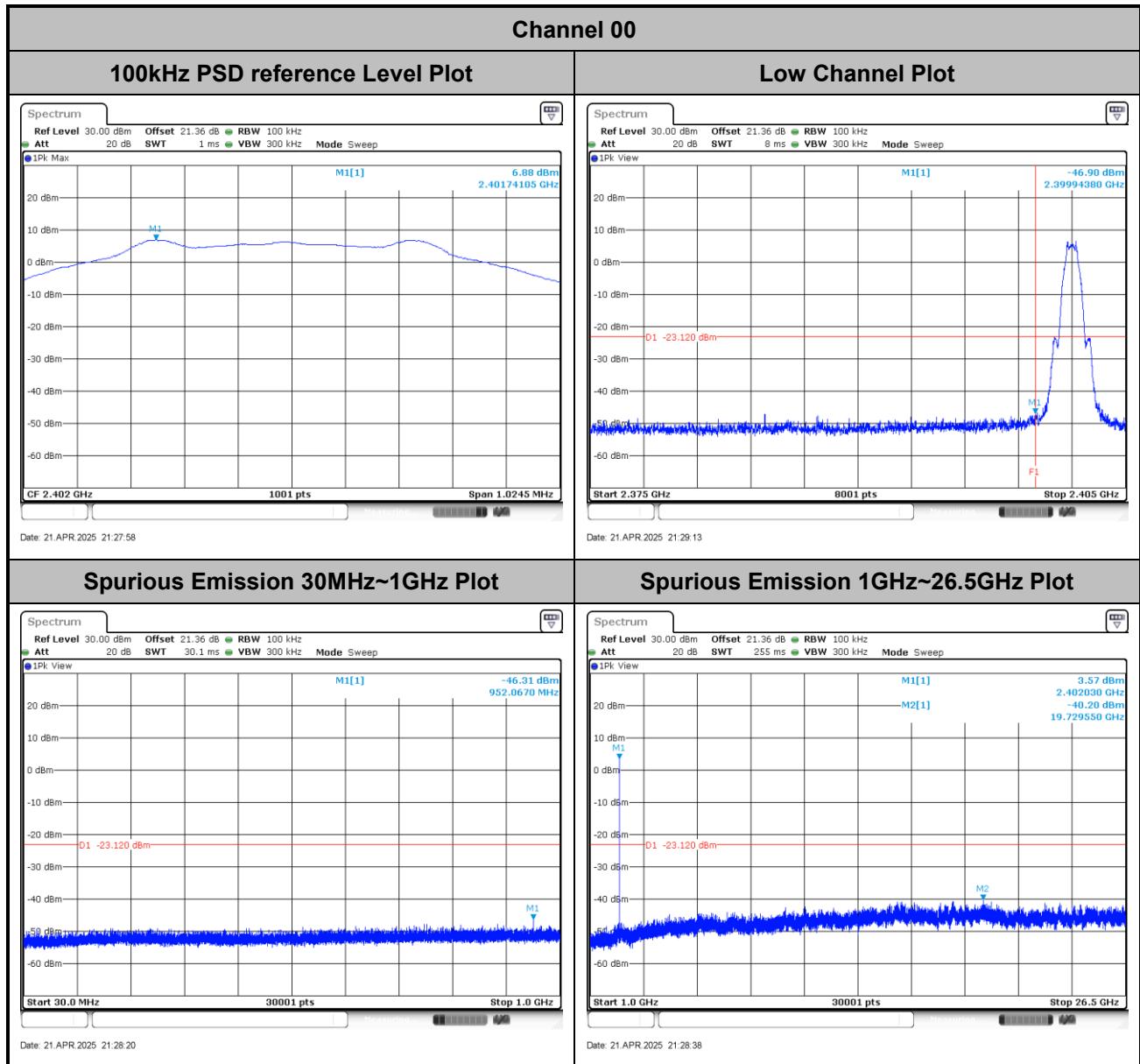
**Power Spectral Density (dBm/3kHz)**

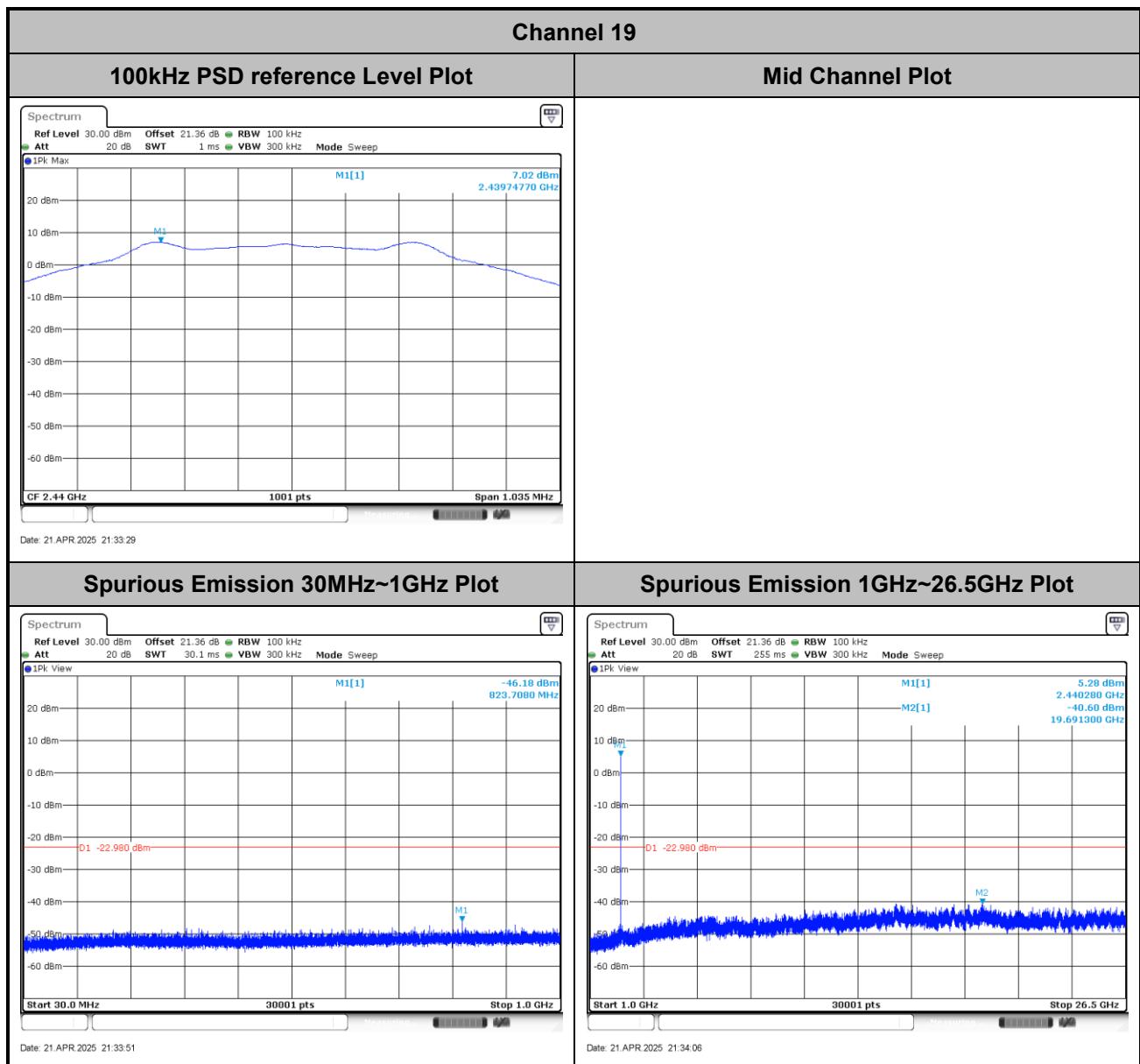
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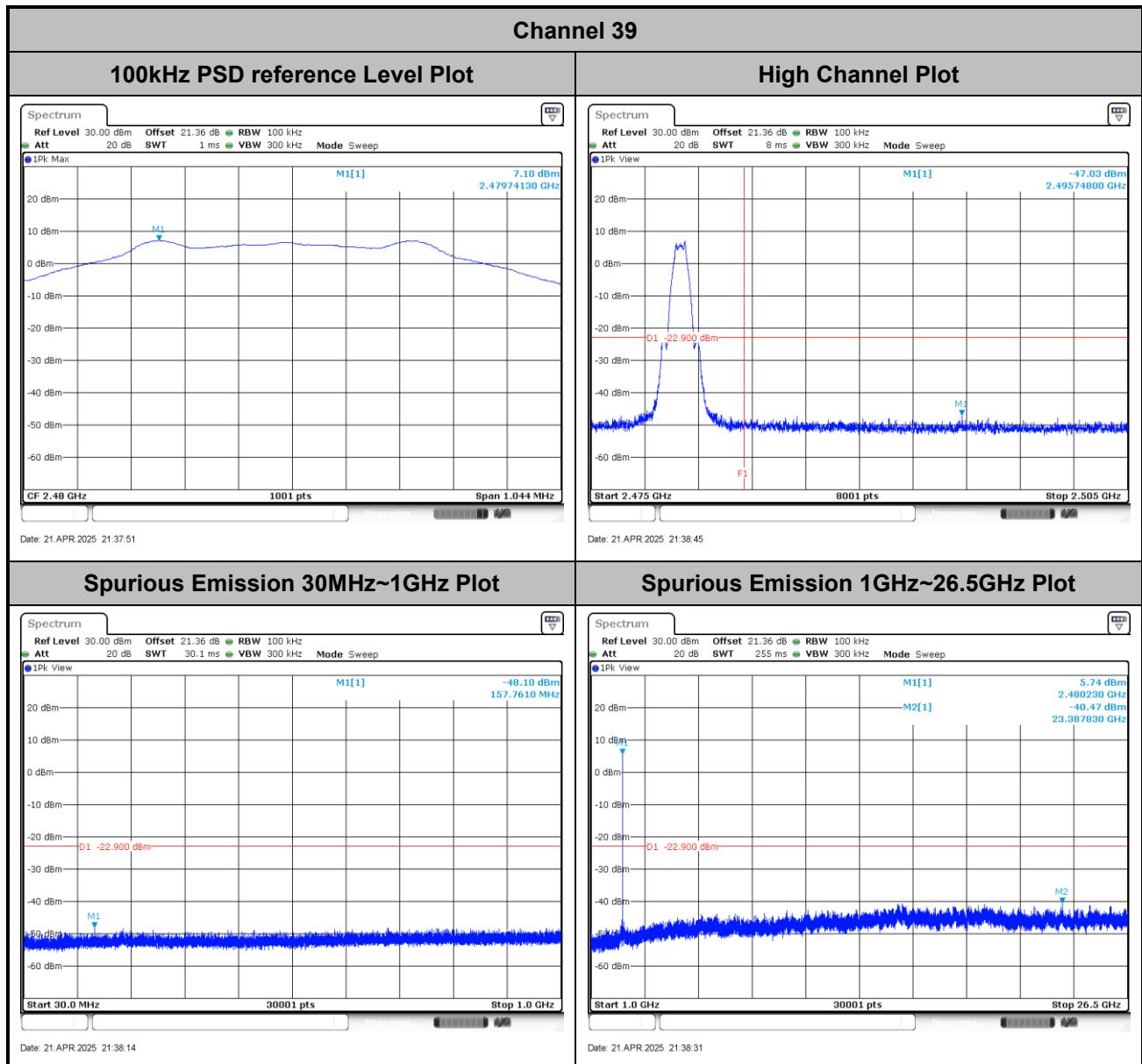


**Band Edge and Conducted Spurious Emission**

<1M>









Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Leo Liu	Relative Humidity :	48.4~50.7%
		Temperature :	17.9~20.5°C

Note symbol

-L	Low channel location
-R	High channel location

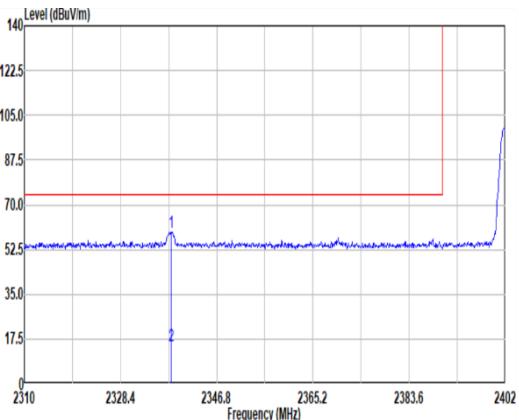
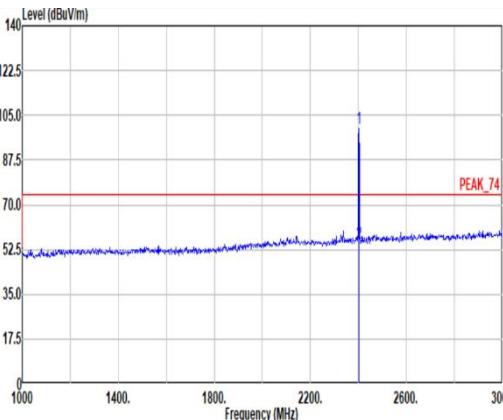
B1. Radiated Spurious Emission Test Modes

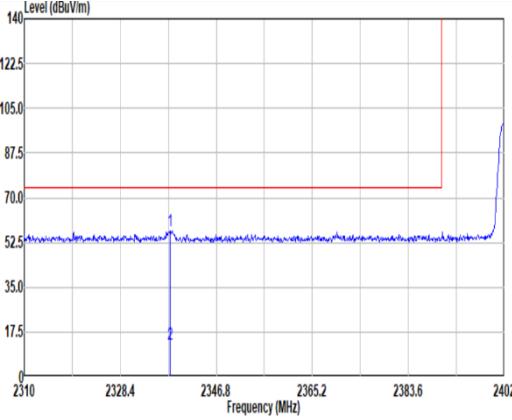
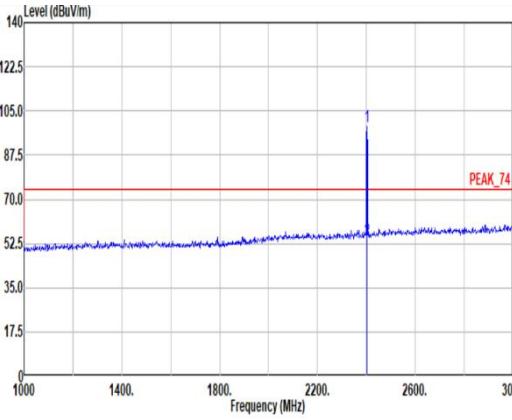
Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	Bluetooth-LE_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	1	Bluetooth-LE_GFSK	19	2440	1Mbps	-	-
Mode 3	2400-2483.5	1	Bluetooth-LE_GFSK	39	2480	1Mbps	-	-
Mode 4	2400-2483.5	1	Bluetooth-LE_GFSK	00	2402	1Mbps	-	LF
Mode 5	2400-2483.5	1	Bluetooth-LE_GFSK	00	2402	1Mbps	-	SHF

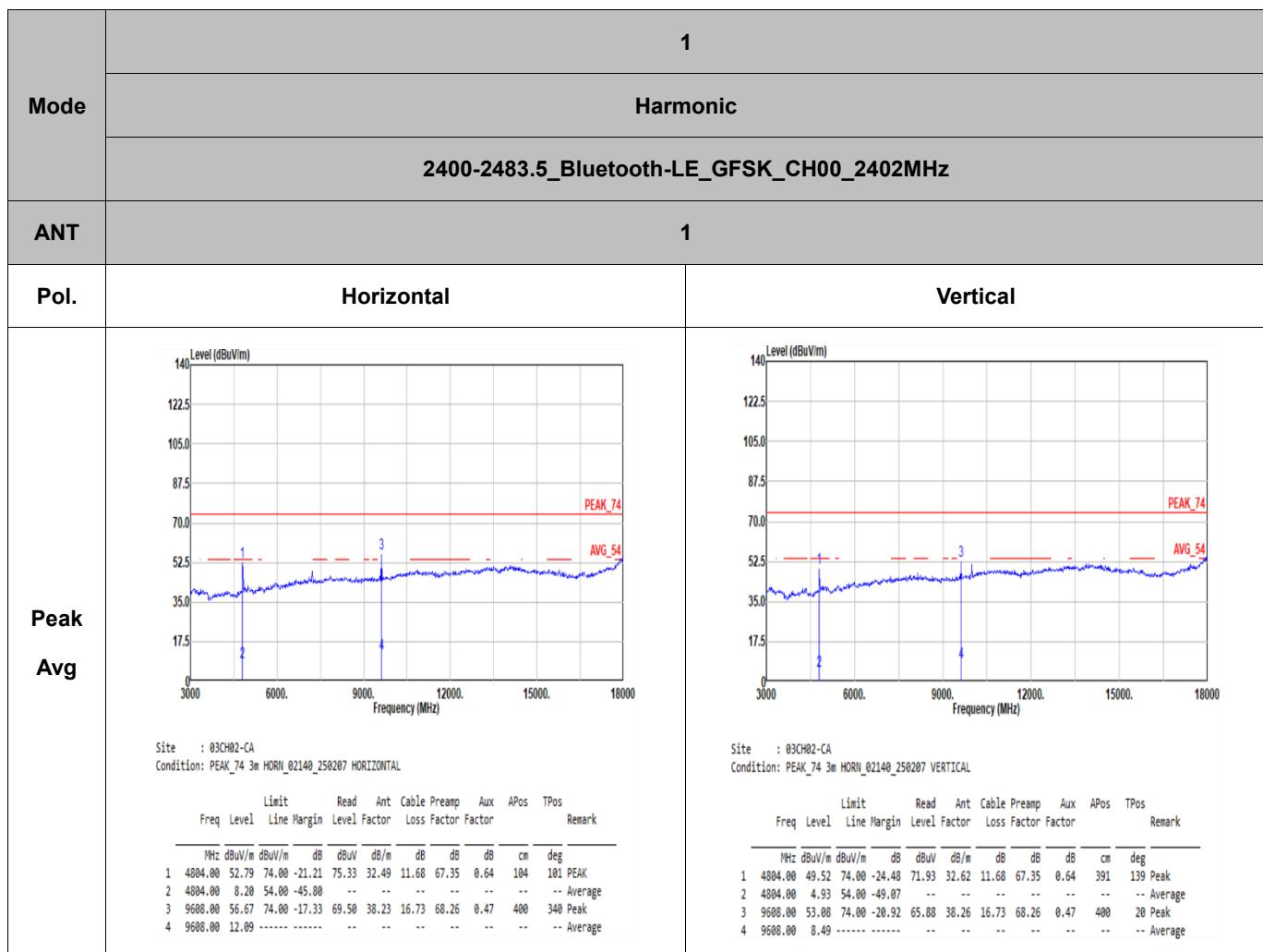


B2. Summary of each worse mode

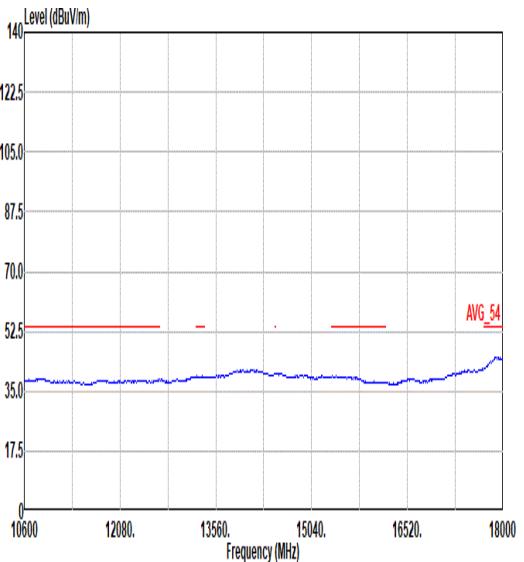
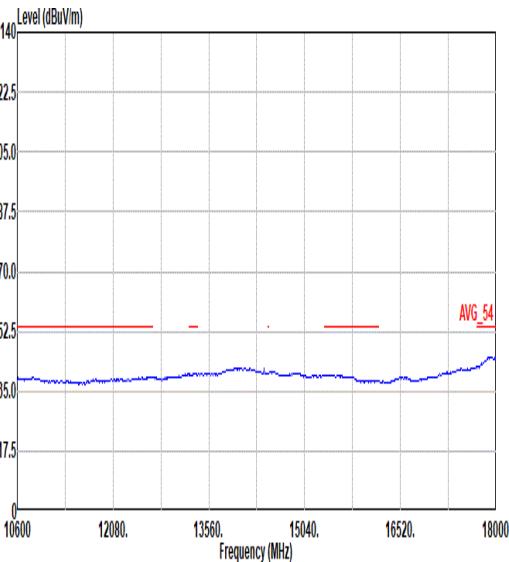
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	Bluetooth- LE_GFSK	00	2338.15	59.15	74.00	-14.85	H	Peak	Pass	-	Band Edge
	Bluetooth- LE_GFSK	00	9608.00	56.67	74.00	-17.33	H	Peak	Pass	-	Harmonic
2	Bluetooth- LE_GFSK	19	2376.04	59.00	74.00	-15.00	H	Peak	Pass	-	Band Edge
	Bluetooth- LE_GFSK	19	9760.00	59.76	74.00	-14.24	H	Peak	Pass	-	Harmonic
3	Bluetooth- LE_GFSK	39	2496.38	57.40	74.00	-16.60	V	Peak	Pass	-	Band Edge
	Bluetooth- LE_GFSK	39	9920.00	58.69	74.00	-15.31	H	Peak	Pass	-	Harmonic
4	LF	00	949.56	33.36	46.00	-12.64	V	Peak	Pass	-	LF
5	SHF	00	24321.00	40.95	74.00	-33.05	H	Peak	Pass	-	SHF

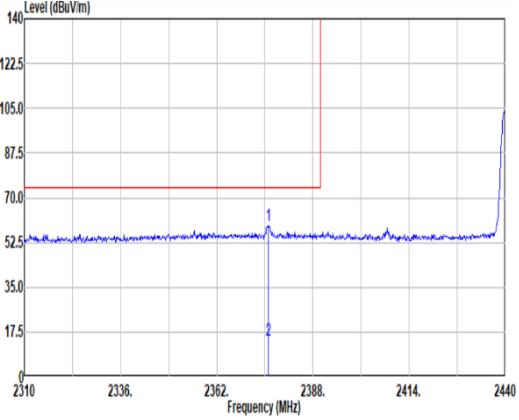
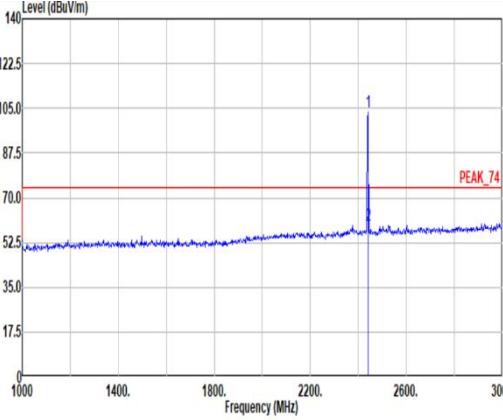
Mode	1																																																																																											
	Band Edge																																																																																											
	2400-2483.5_Bluetooth-LE_GFSK_CH00_2402MHz																																																																																											
ANT	1																																																																																											
Pol.	Horizontal																																																																																											
Peak	 <p>Site : 03CH02-CA Condition: PEAK_BE_74 3m HORN_02140_250207 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Limit</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2338.15</td> <td>59.15</td> <td>74.00</td> <td>-14.85</td> <td>45.01</td> <td>27.20</td> <td>8.04</td> <td>31.13</td> <td>10.03</td> <td>100</td> <td>149 PEAK</td> </tr> <tr> <td>2</td> <td>2338.15</td> <td>14.56</td> <td>54.00</td> <td>-39.44</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>Average</td> </tr> </tbody> </table>	Freq	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2338.15	59.15	74.00	-14.85	45.01	27.20	8.04	31.13	10.03	100	149 PEAK	2	2338.15	14.56	54.00	-39.44	--	--	--	--	--	--	Average	 <p>Site : 03CH02-CA Condition: PEAK_74 3m HORN_02140_250207 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Limit</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>55.06</td> <td>99.65</td> <td>-----</td> <td>85.06</td> <td>27.47</td> <td>8.15</td> <td>31.08</td> <td>10.03</td> <td>100</td> <td>149 PEAK</td> </tr> <tr> <td>2</td> <td>2402.00</td> <td>55.06</td> <td>99.65</td> <td>-----</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>Average</td> </tr> </tbody> </table>	Freq	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2402.00	55.06	99.65	-----	85.06	27.47	8.15	31.08	10.03	100	149 PEAK	2	2402.00	55.06	99.65	-----	--	--	--	--	--	--	Average
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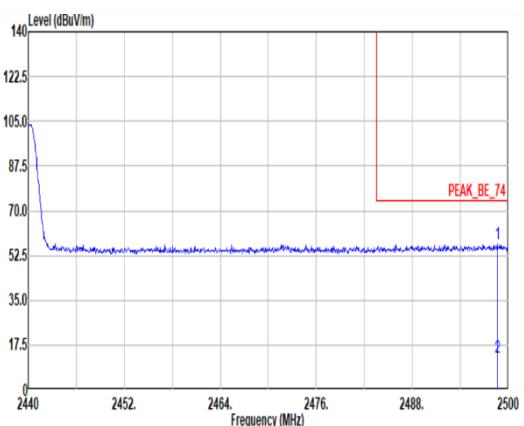
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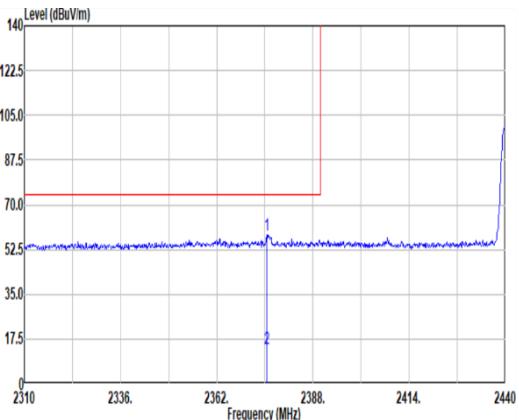
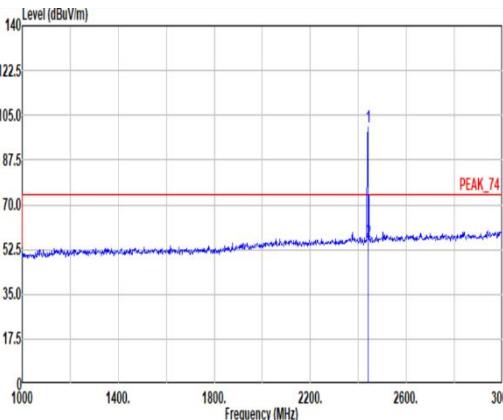


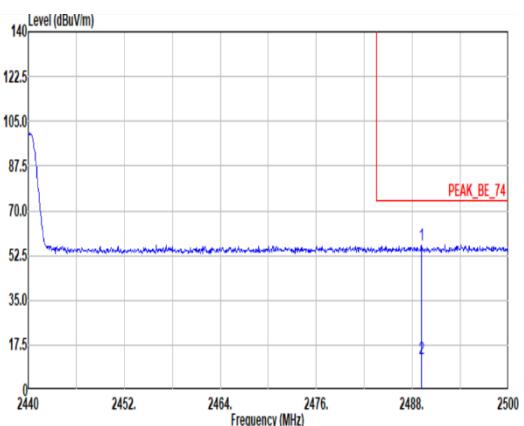
Remark: The unwanted signal 9608.000MHz can be ignored since it falls within the non-restricted band and meet the requirements of 15.247 (d).

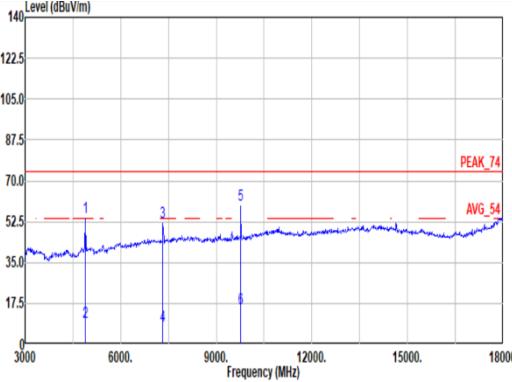
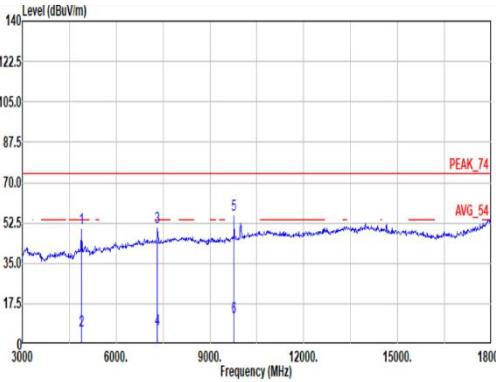
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	Harmonic	
	2400-2483.5_Bluetooth-LE_GFSK_CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
10.6G		
~18G		
Avg	Site : 03CH02-CA Condition: AVG_54 3m HORN_02140_250207 HORIZONTAL	Site : 03CH02-CA Condition: AVG_54 3m HORN_02140_250207 VERTICAL

Mode	2																																																																																																					
	Band Edge - L																																																																																																					
	2400-2483.5_Bluetooth-LE_GFSK_CH19_2440MHz																																																																																																					
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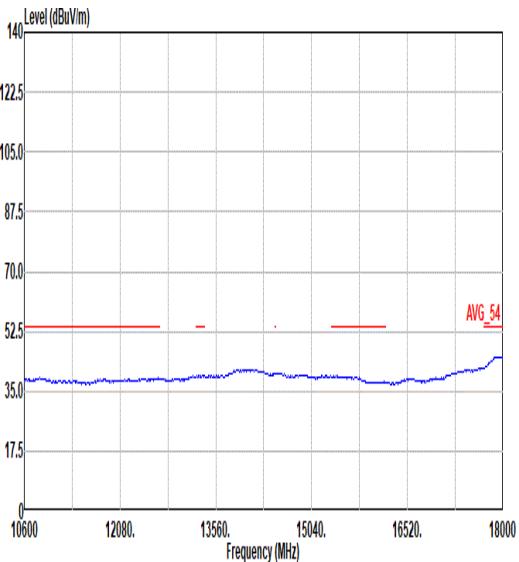
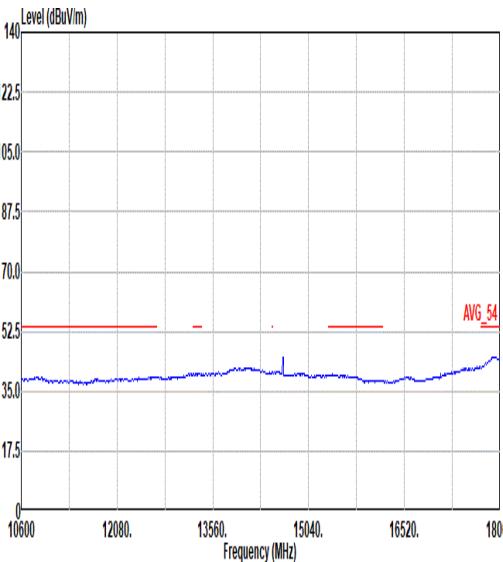
Mode	2																																									
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	2400-2483.5_Bluetooth-LE_GFSK_CH19_2440MHz																																									
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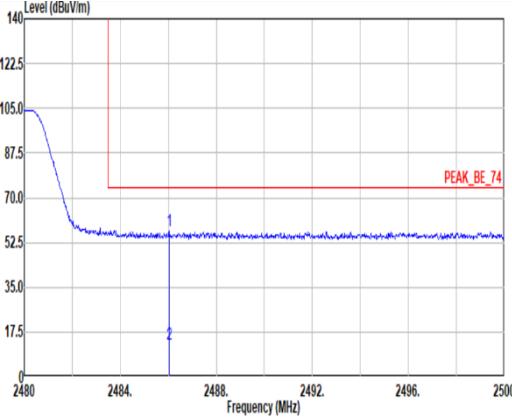
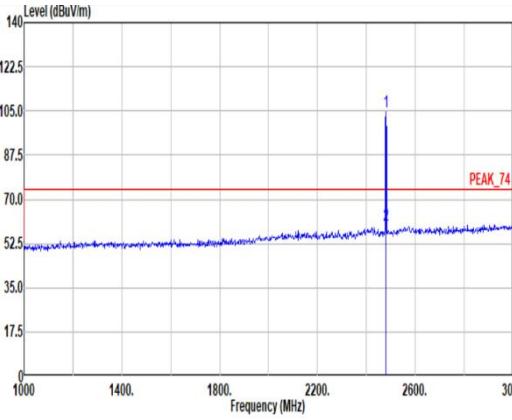
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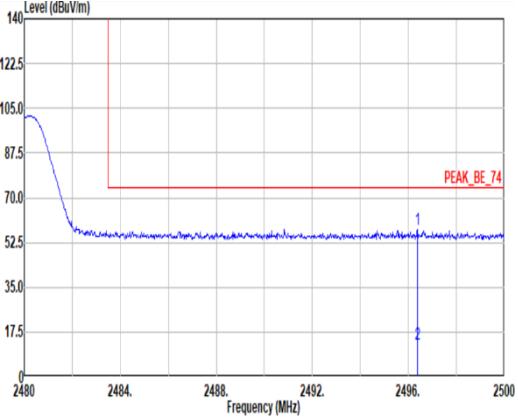
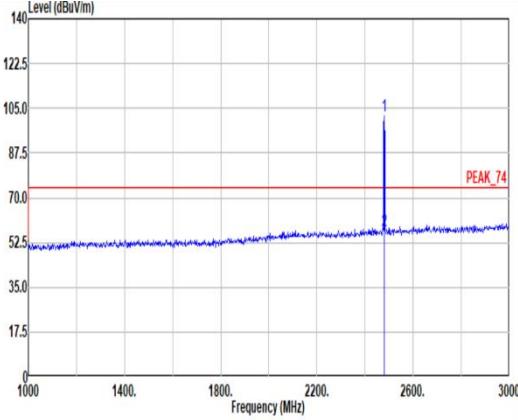
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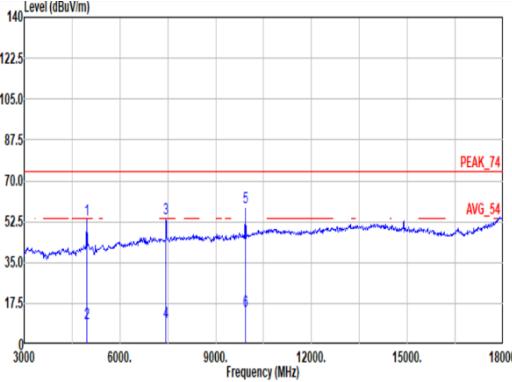
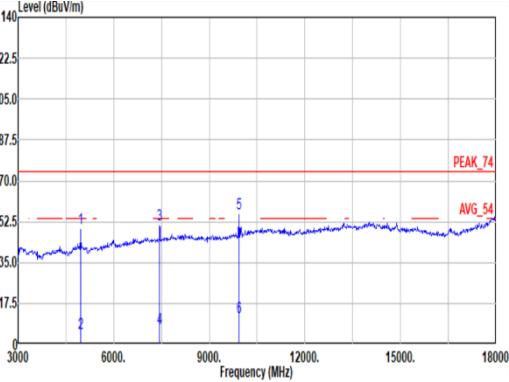
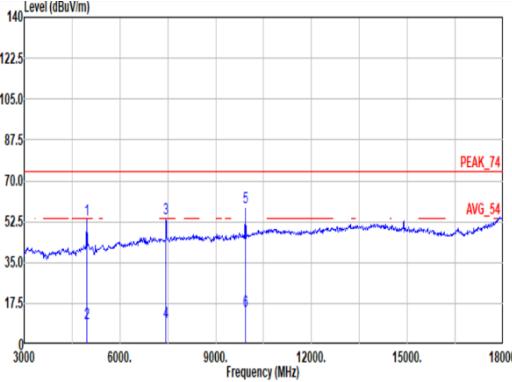
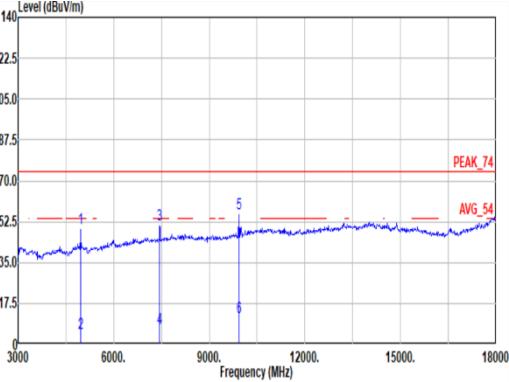
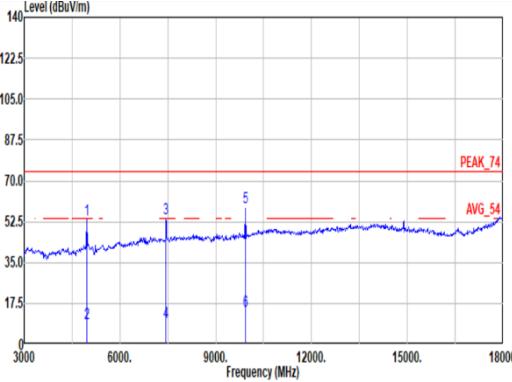
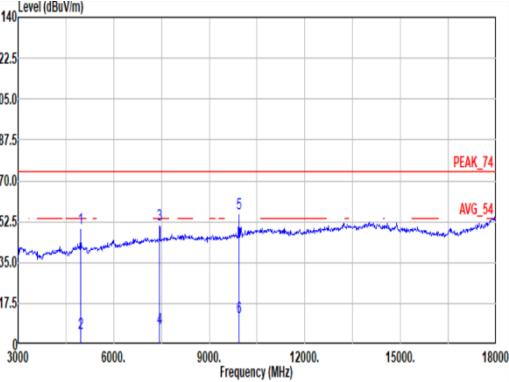
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Remark: The unwanted signal 9760.000MHz can be ignored since it falls within the non-restricted band and meet the requirements of 15.247 (d).

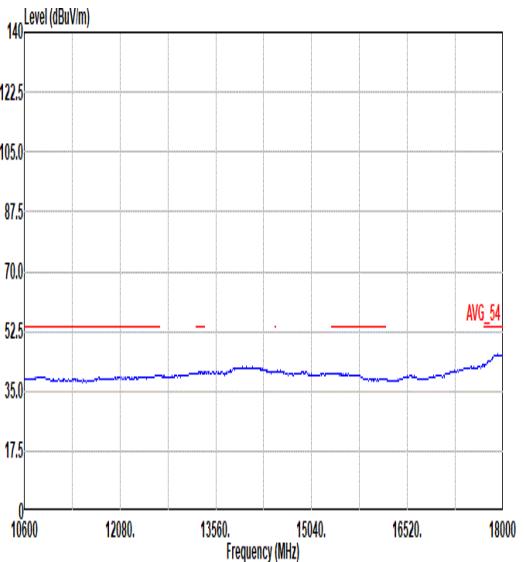
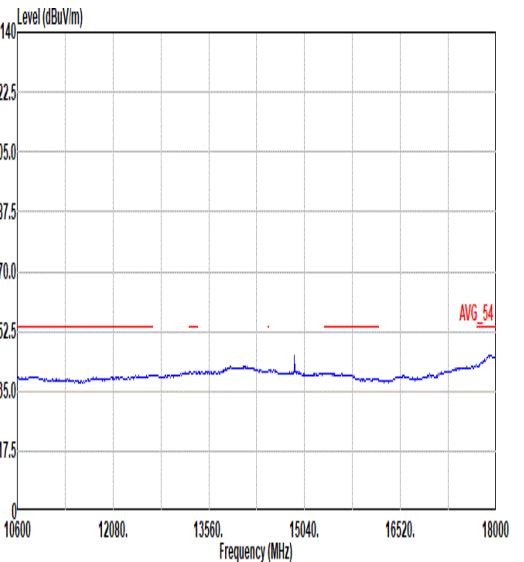
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10.6G		
~18G		
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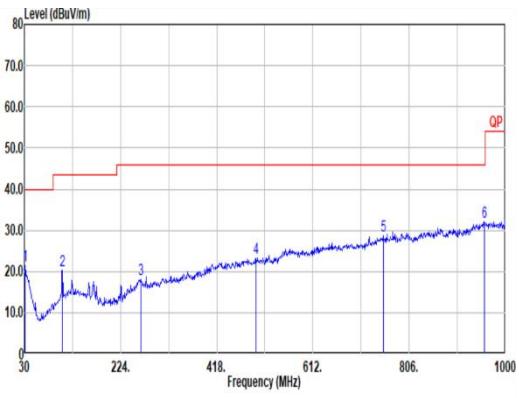
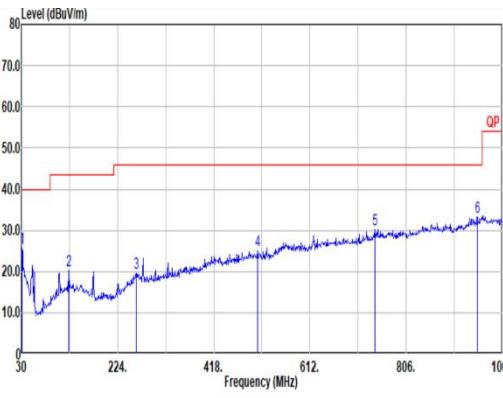
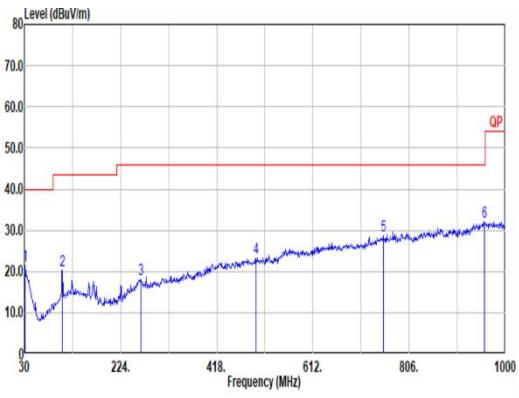
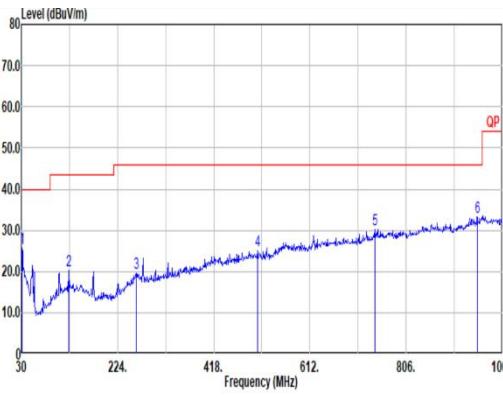
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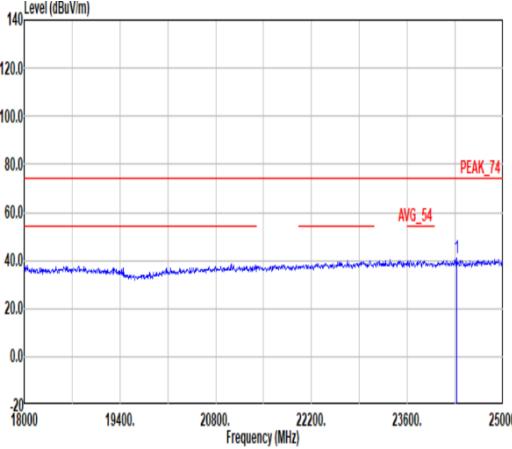
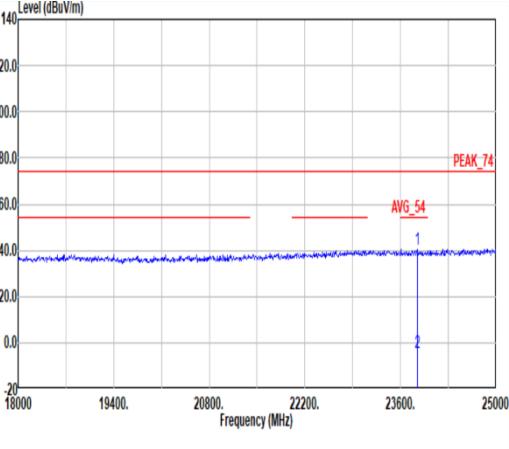
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Remark: The unwanted signal 9920.000MHz can be ignored since it falls within the non-restricted band and meet the requirements of 15.247 (d).

Mode	3	
	Harmonic	
	2400-2483.5_Bluetooth-LE_GFSK_CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
10.6G		
~18G		
Avg	Site : 03CH02-CA Condition: AVG_54 3m HORN_02140_250207 HORIZONTAL	Site : 03CH02-CA Condition: AVG_54 3m HORN_02140_250207 VERTICAL

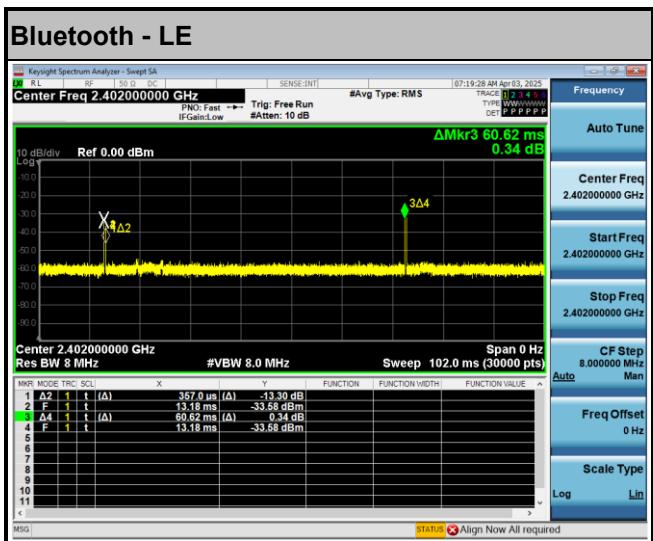
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Remark: The unwanted signal 24321MHz can be ignored since it falls within the non-restricted band and meet the requirements of 15.247 (d).

Appendix C. Duty Cycle Plots

Band	Duty Cycle (%)	T(us)
Bluetooth - LE	0.589	357



Remark: 0.589% is used to determine the duty cycle correction factor (DCCF) in this report