



FCC RF Test Report

APPLICANT : Fitbit LLC
EQUIPMENT : Wireless Device
MODEL NAME : FB424
FCC ID : XRAFB424
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Mar. 30, 2022 ~ Jun. 24, 2022

We, Sporton International Inc. (Kunshan), 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 of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	99% Bandwidth	-	Report only	-
3.2	15.247(b)(3)	Peak Output Power	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	≤ 20dBc	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.63 dB at 2483.50 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 18.14 dB at 0.454 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Fitbit LLC
199 Fremont St., 14th Floor, San Francisco, CA 94105, USA

1.2 Manufacturer

Fitbit LLC
199 Fremont St., 14th Floor, San Francisco, CA 94105, USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Device
Model Name	FB424
FCC ID	XRAFB424
HW Version	EVT
SW Version	63.20001.175.1
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz
Number of Channels	40
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)
Maximum Output Power to Antenna	Bluetooth LE 1Mps: 2.99 dBm (0.0020 W) Bluetooth LE 2Mps: 2.98 dBm (0.0020 W)
99% Occupied Bandwidth	Bluetooth LE 1Mps: 1.14MHz Bluetooth LE 2Mps: 2.12MHz
Antenna Type / Gain	Monopole Antenna type with gain 1.72 dBi
Type of Modulation	Bluetooth LE : GFSK

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People’s Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH06-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH06-KS	AUDIX	E3	6.2009-8-24a1
2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

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

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. 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	-	-	



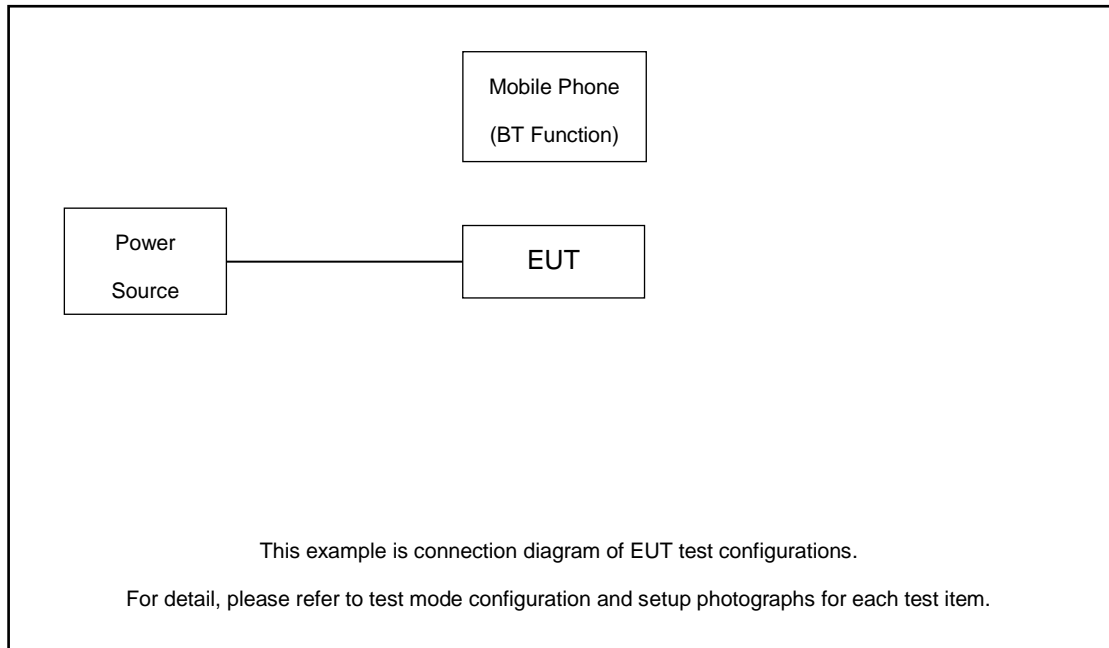
2.2 Test Mode

- 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, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.
- b. For RSE, full tests with Adapter mode, and verify the worst case with Clip mode.
- c. 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
	Bluetooth – LE / GFSK
Conducted TCs	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps & 2Mbps Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps & 2Mbps Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps & 2Mbps
Radiated TCs	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps & 2Mbps Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps & 2Mbps Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps & 2Mbps
AC Conducted Emission	Mode 1: BLE Link + Battery + USB Cable(Charging From Adapter)

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Phone	MOTO	XT1952-1	N/A	N/A	N/A
2.	Adapter	MOTO	C-P56	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For BLE function, the engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.



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 5.1dB.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 5.1 \text{ (dB)} \end{aligned}$$

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

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the 99% OBW and the VBW is set to 3 times of the RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup



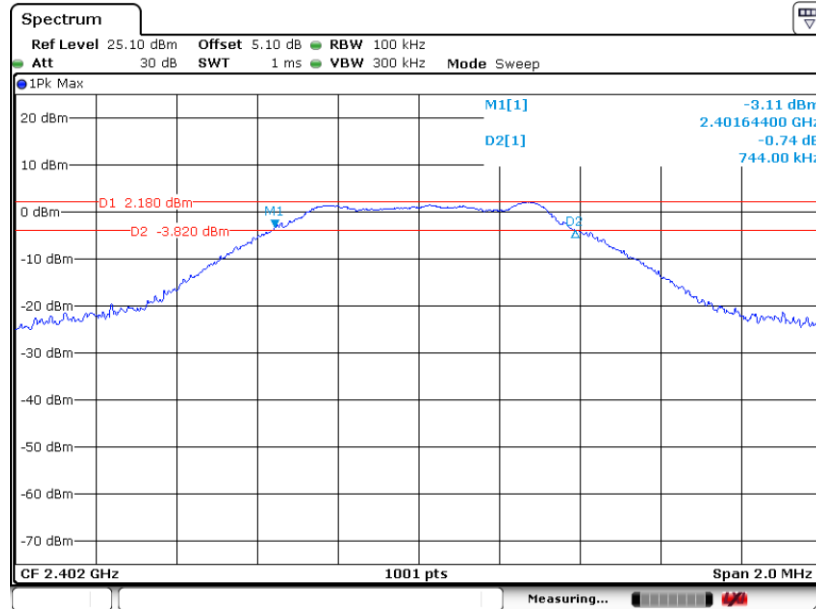


3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

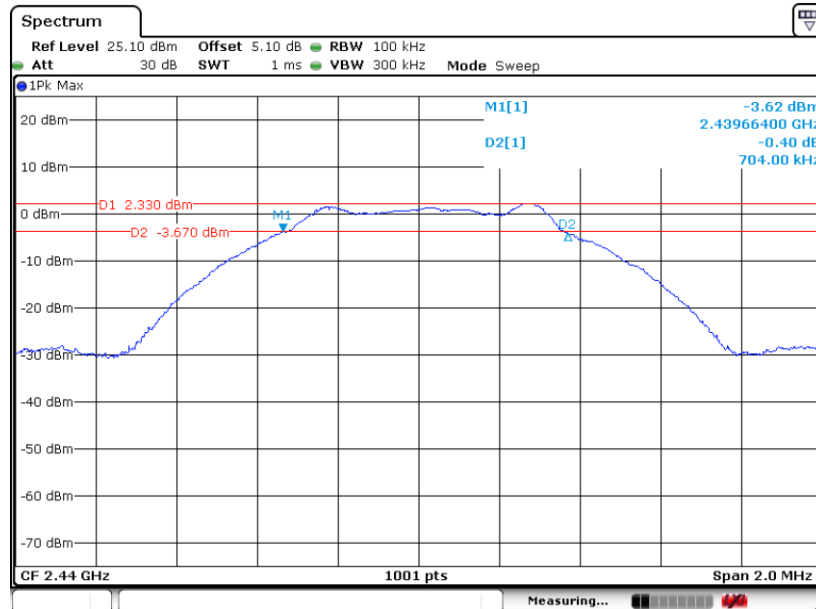
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6 dB Bandwidth Plot on Channel 00



Date: 14.APR.2022 19:50:28

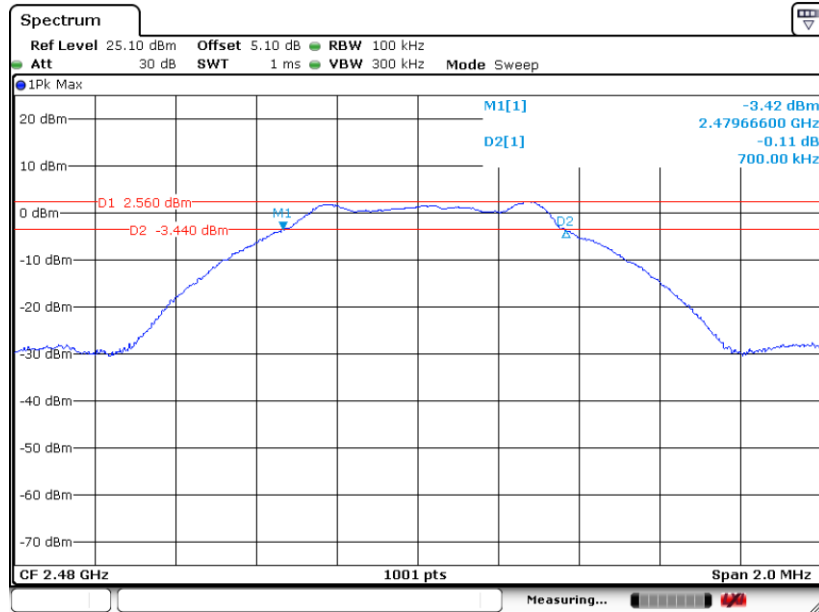
6 dB Bandwidth Plot on Channel 19



Date: 14.APR.2022 18:09:30



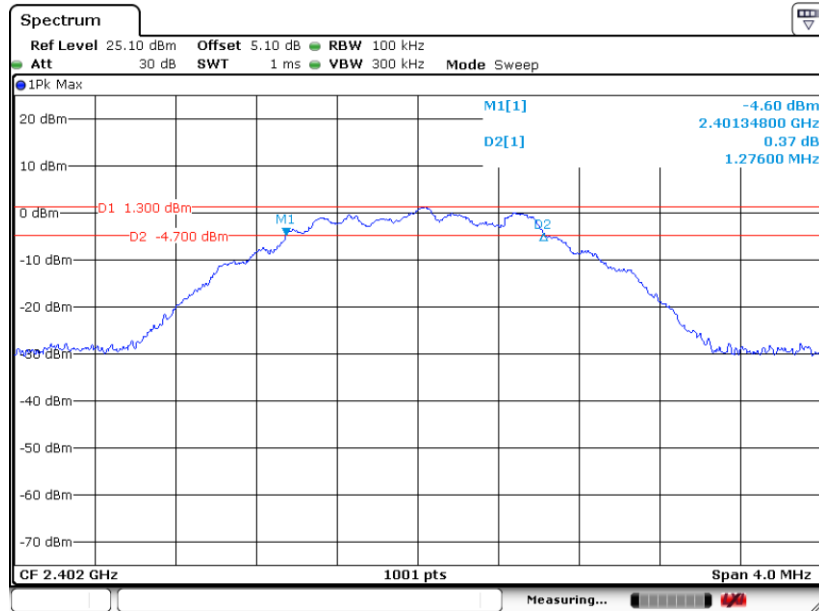
6 dB Bandwidth Plot on Channel 39



Date: 14.APR.2022 18:06:55

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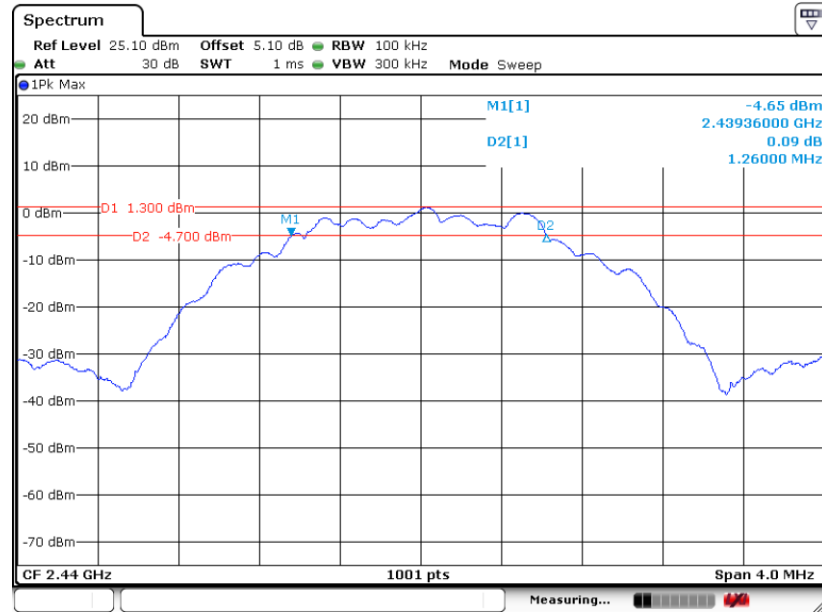
6 dB Bandwidth Plot on Channel 00



Date: 14.APR.2022 19:41:54

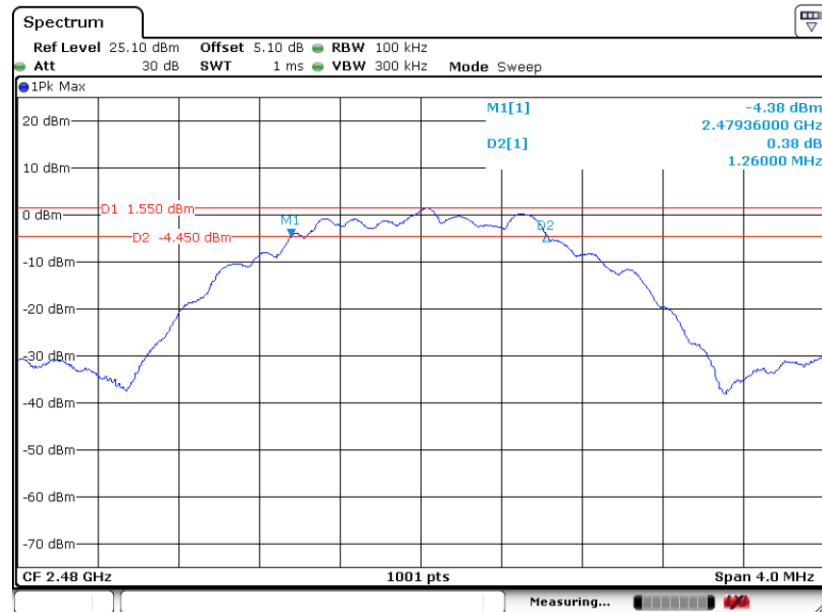


6 dB Bandwidth Plot on Channel 19



Date: 14.APR.2022 19:44:45

6 dB Bandwidth Plot on Channel 39



Date: 14.APR.2022 19:46:55

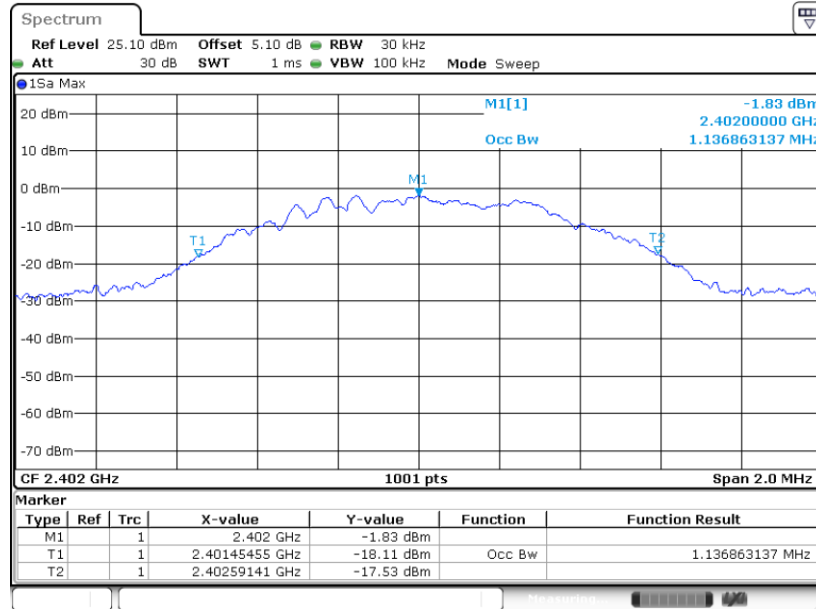


3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

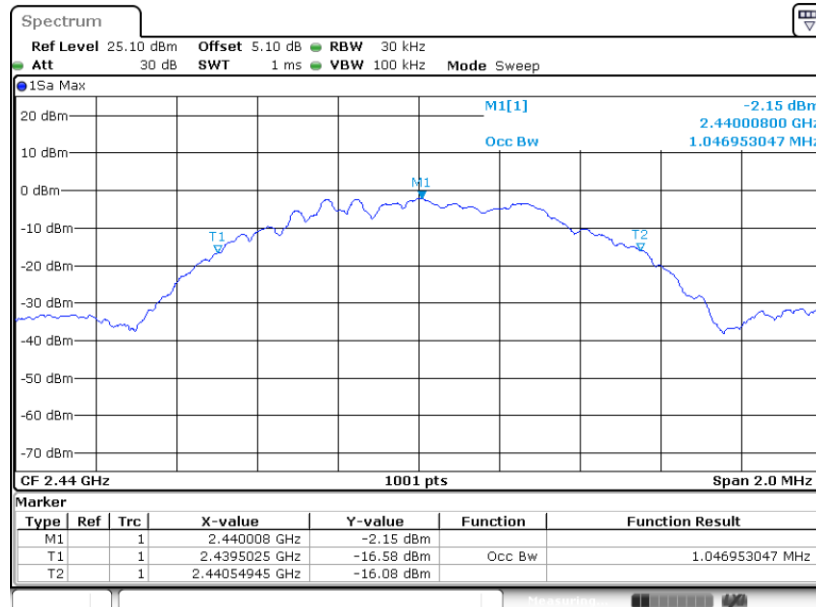
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99% Occupied Bandwidth Plot on Channel 00



Date: 14.APR.2022 19:53:17

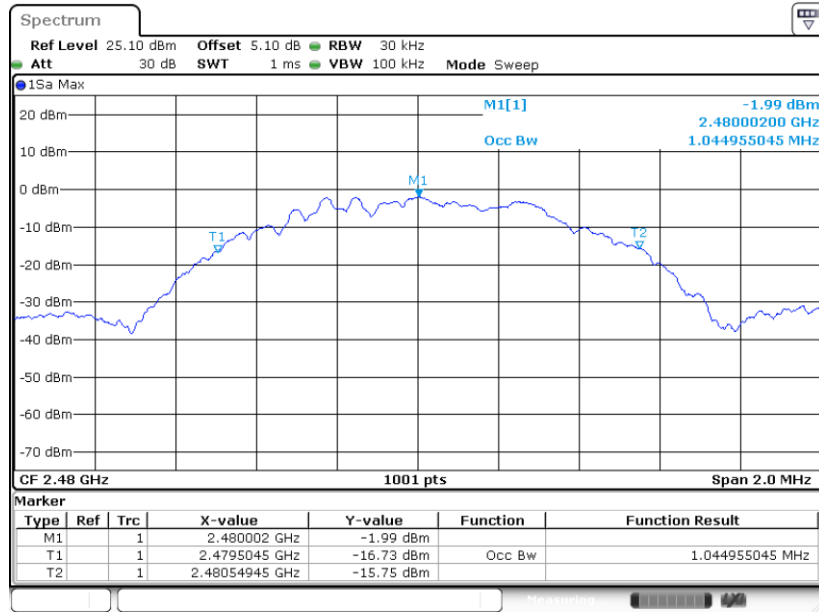
99% Occupied Bandwidth Plot on Channel 19



Date: 14.APR.2022 18:10:58



99% Occupied Bandwidth Plot on Channel 39

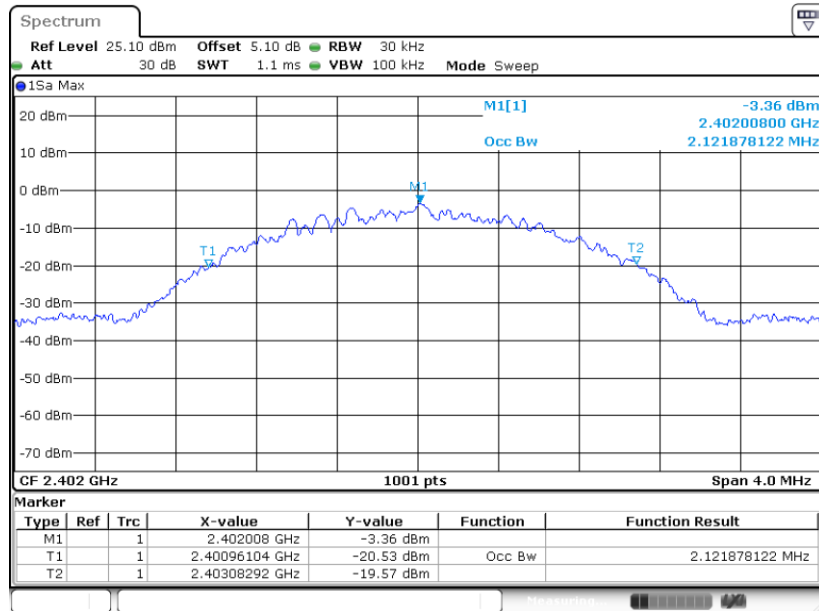


Date: 14.APR.2022 19:52:25

Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<Bluetooth LE 2Mbps>

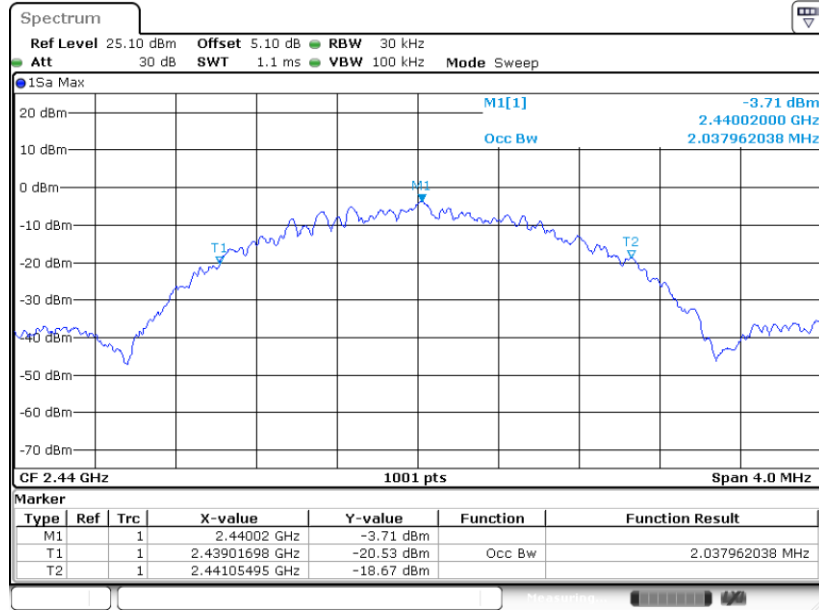
99% Occupied Bandwidth Plot on Channel 00



Date: 14.APR.2022 19:43:53

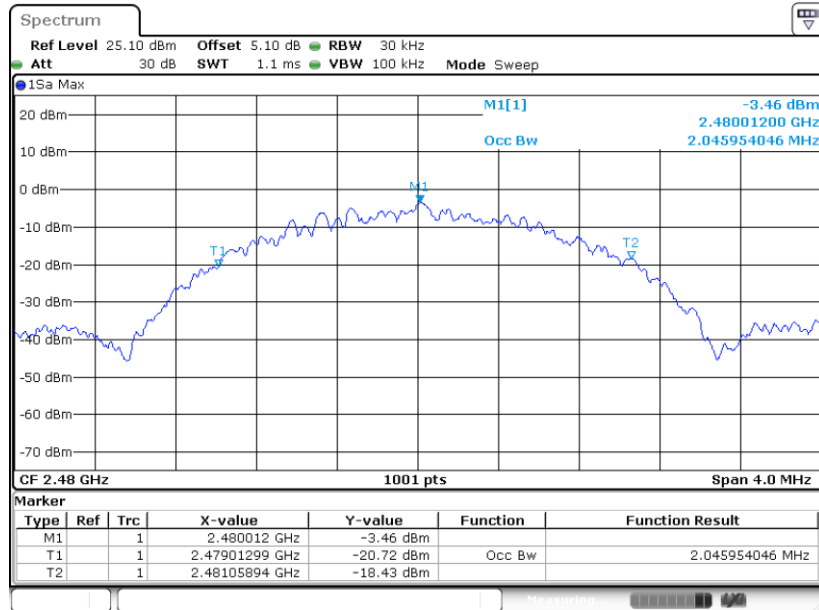


99% Occupied Bandwidth Plot on Channel 19



Date: 14.APR.2022 19:46:12

99% Occupied Bandwidth Plot on Channel 39



Date: 14.APR.2022 19:48:12

Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi 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 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

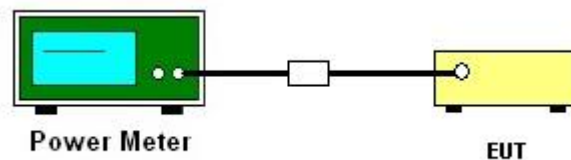
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. 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 8dBm in any 3kHz band at any time interval of continuous transmission.

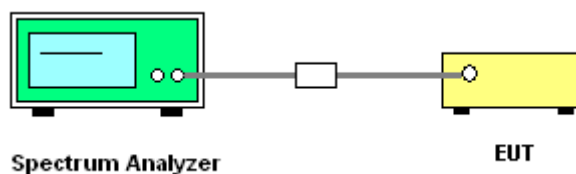
3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = 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)/ 100kHz is a reference level and used as 20dBc 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

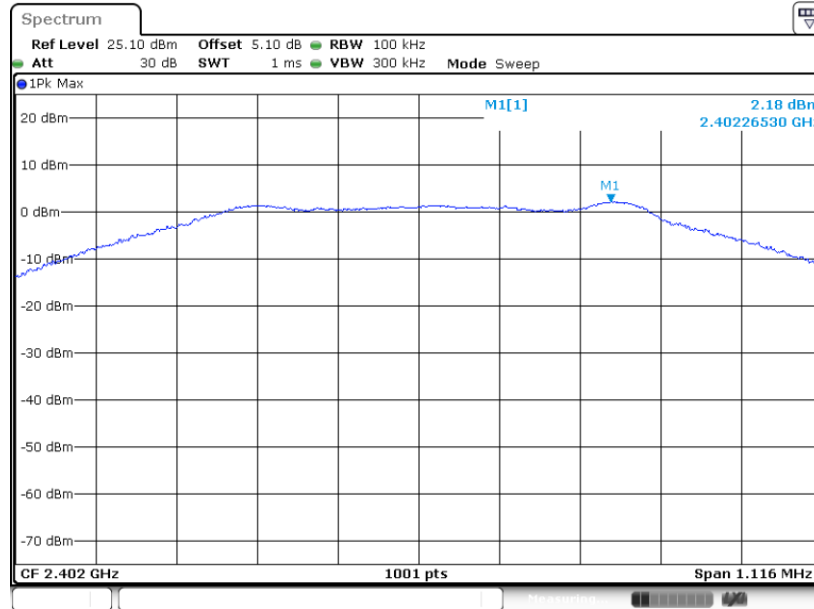
Please refer to Appendix A.



3.3.6 Test Result of Power Spectral Density Plots (100kHz)

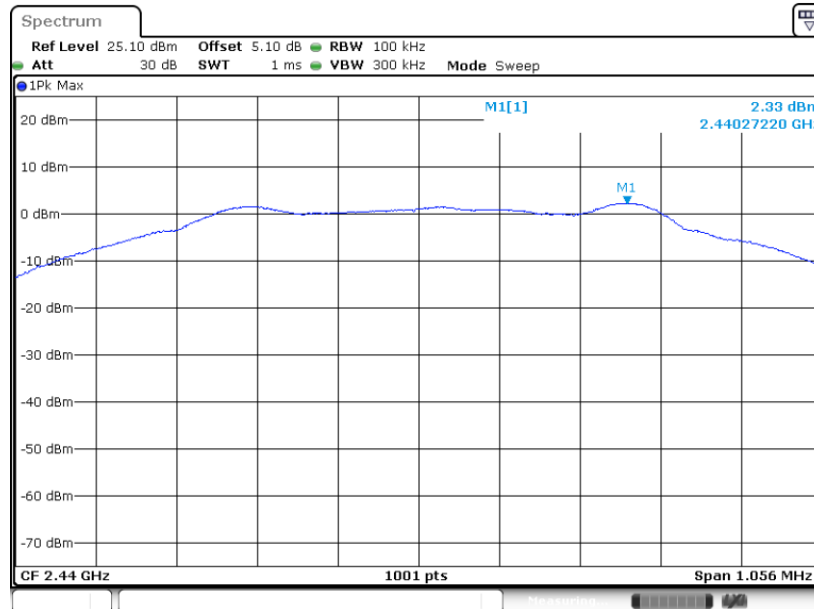
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PSD 100kHz Plot on Channel 00



Date: 14.APR.2022 19:51:01

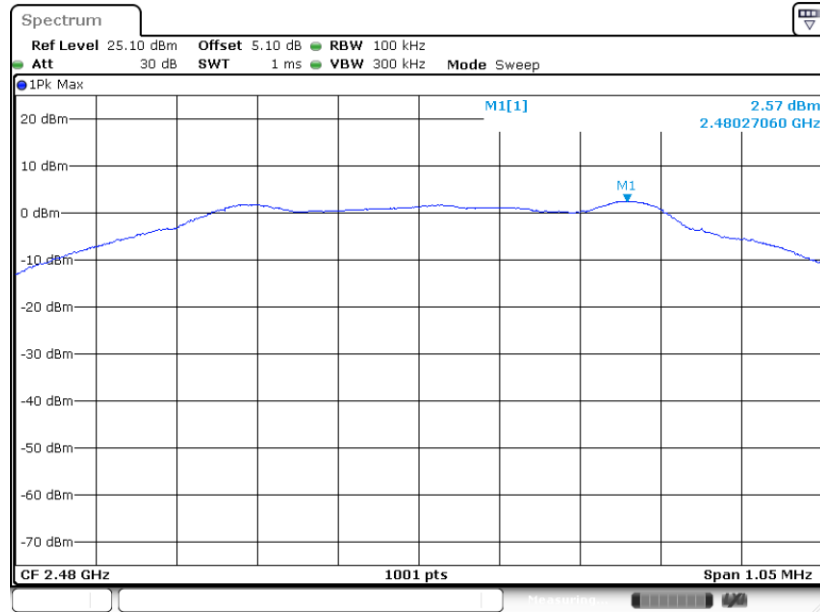
PSD 100kHz Plot on Channel 19



Date: 14.APR.2022 18:09:54



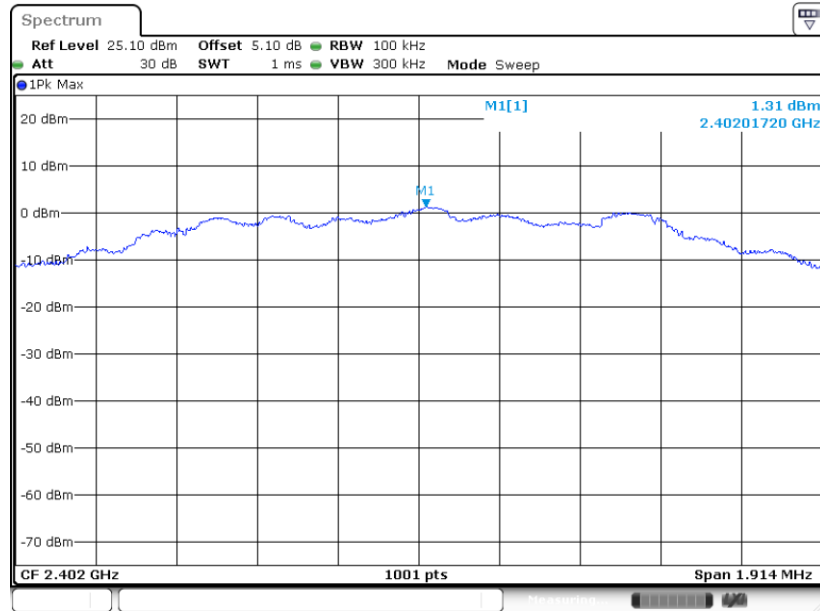
PSD 100kHz Plot on Channel 39



Date: 14.APR.2022 18:07:32

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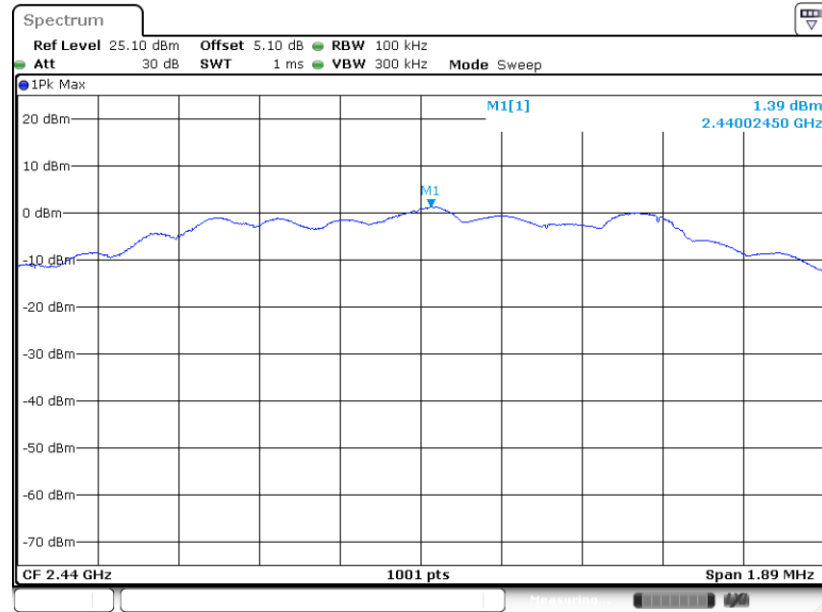
PSD 100kHz Plot on Channel 00



Date: 14.APR.2022 19:42:31

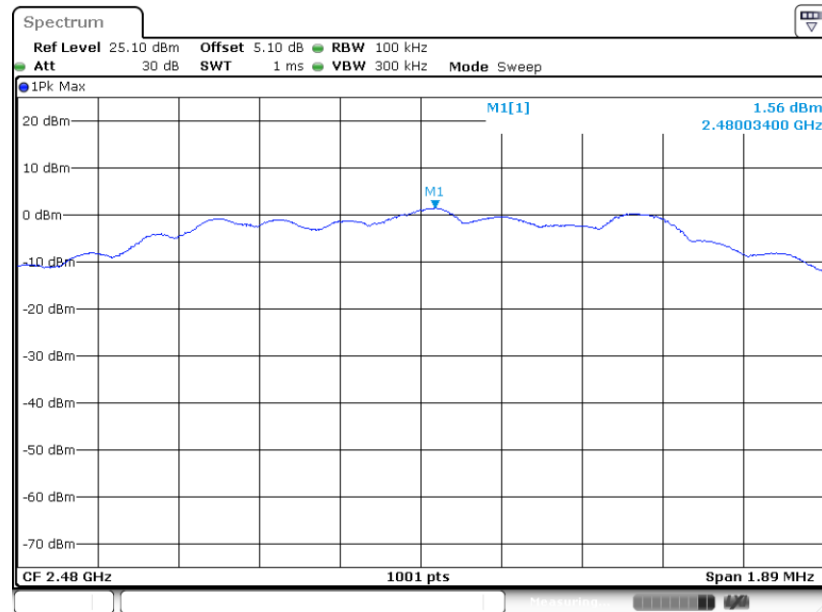


PSD 100kHz Plot on Channel 19



Date: 14.APR.2022 19:45:36

PSD 100kHz Plot on Channel 39



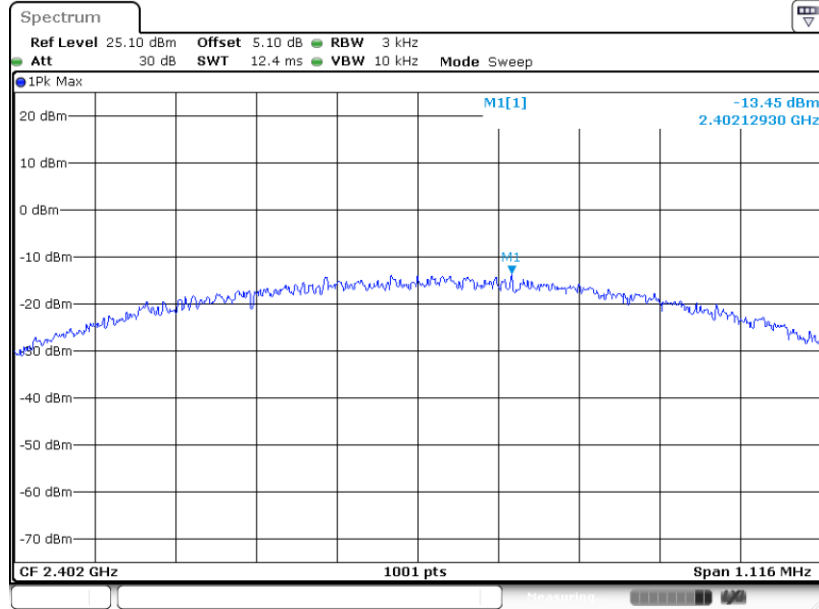
Date: 14.APR.2022 19:47:21



3.3.7 Test Result of Power Spectral Density Plots (3kHz)

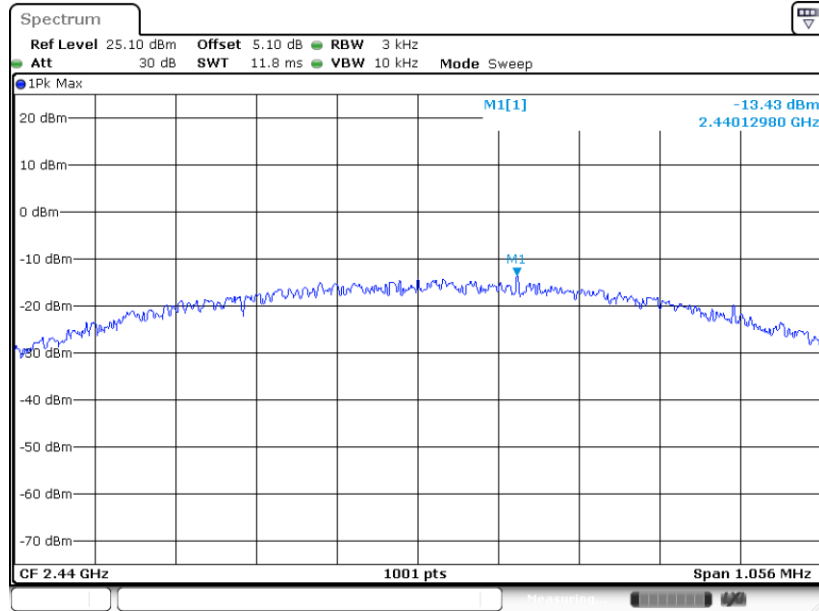
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PSD 3kHz Plot on Channel 00



Date: 14.APR.2022 19:50:45

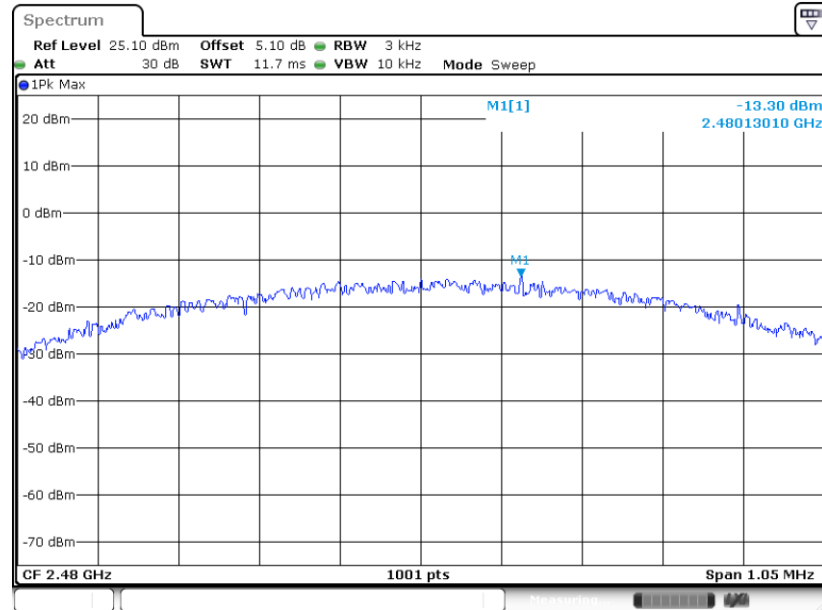
PSD 3kHz Plot on Channel 19



Date: 14.APR.2022 18:09:42



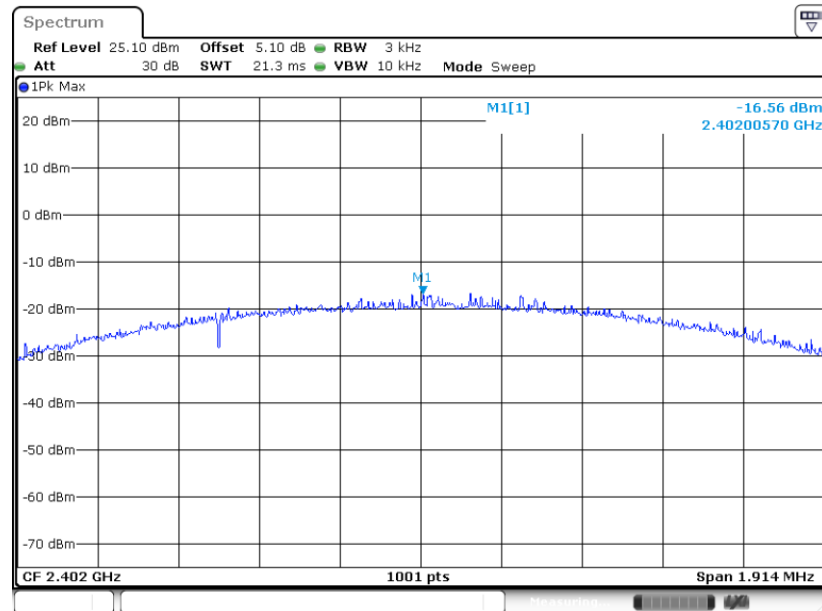
PSD 3kHz Plot on Channel 39



Date: 14.APR.2022 18:07:18

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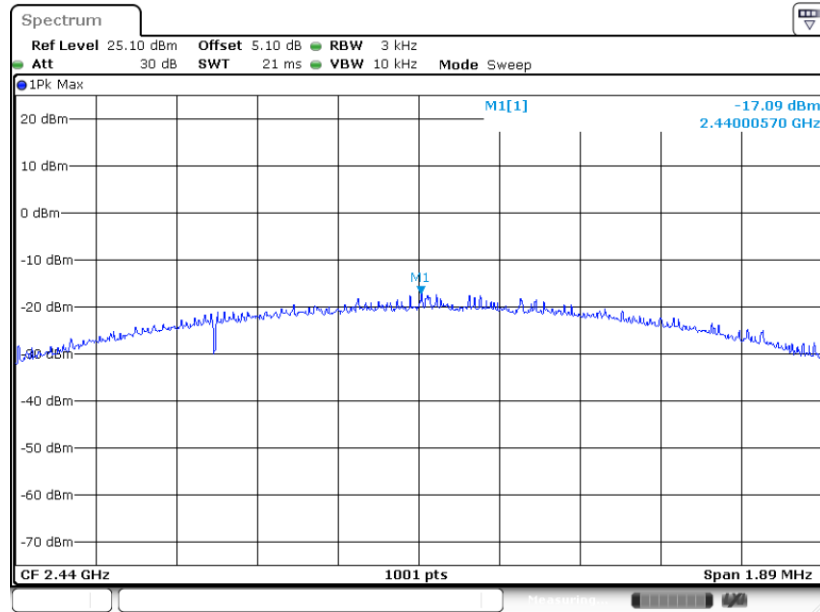
PSD 3kHz Plot on Channel 00



Date: 14.APR.2022 19:42:17

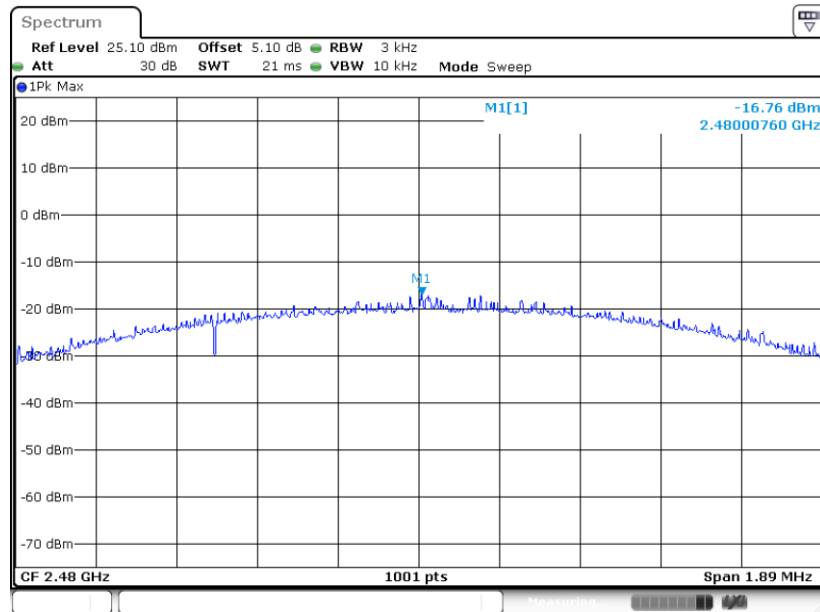


PSD 3kHz Plot on Channel 19



Date: 14.APR.2022 19:44:59

PSD 3kHz Plot on Channel 39



Date: 14.APR.2022 19:47:08

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 20 dB down from the highest emission level within the authorized band.

3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 11.13
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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

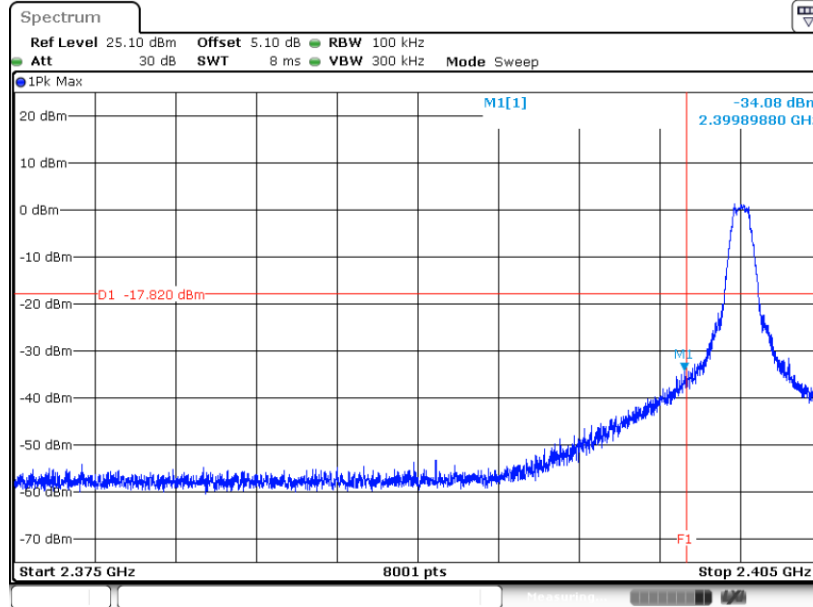




3.4.5 Test Result of Conducted Band Edges Plots

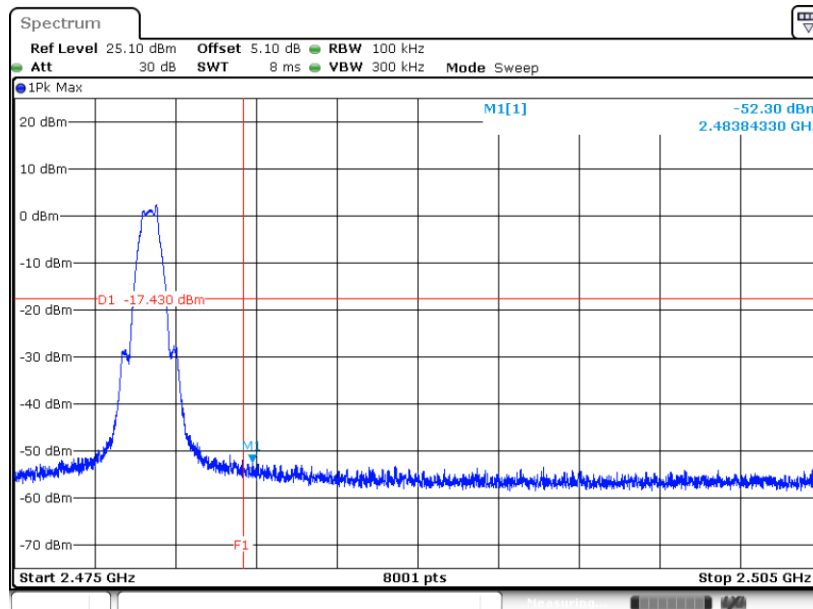
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Low Band Edge Plot on Channel 00



Date: 14.APR.2022 19:51:13

High Band Edge Plot on Channel 39

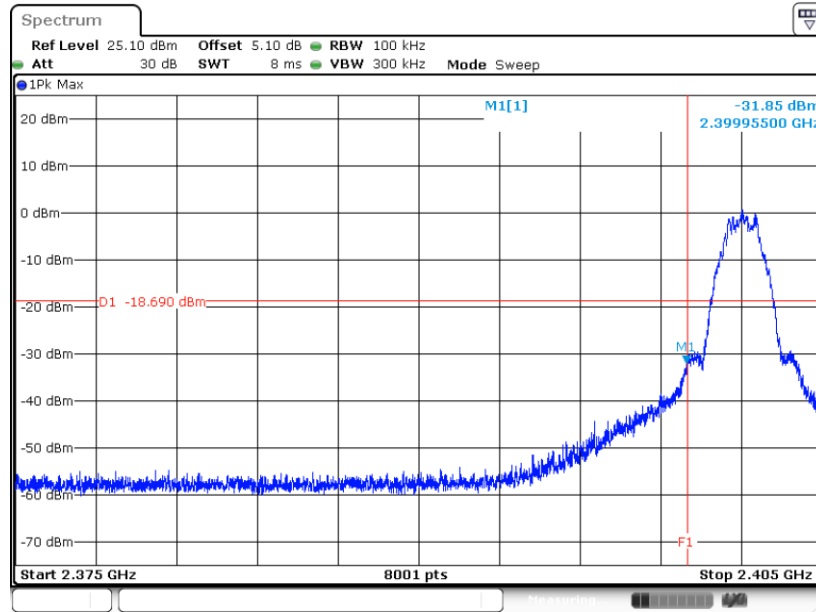


Date: 14.APR.2022 18:08:13



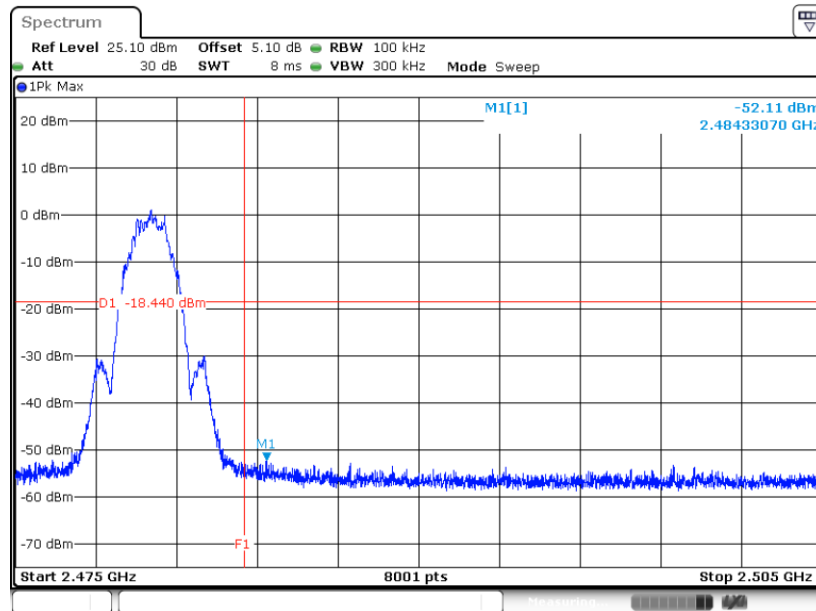
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Low Band Edge Plot on Channel 00



Date: 14.APR.2022 19:42:57

High Band Edge Plot on Channel 39



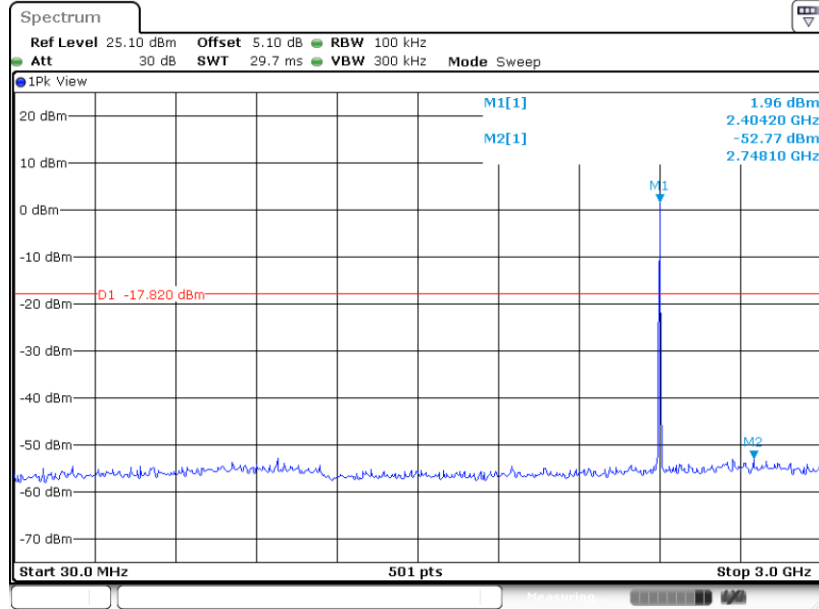
Date: 14.APR.2022 19:47:32



3.4.6 Test Result of Conducted Spurious Emission Plots

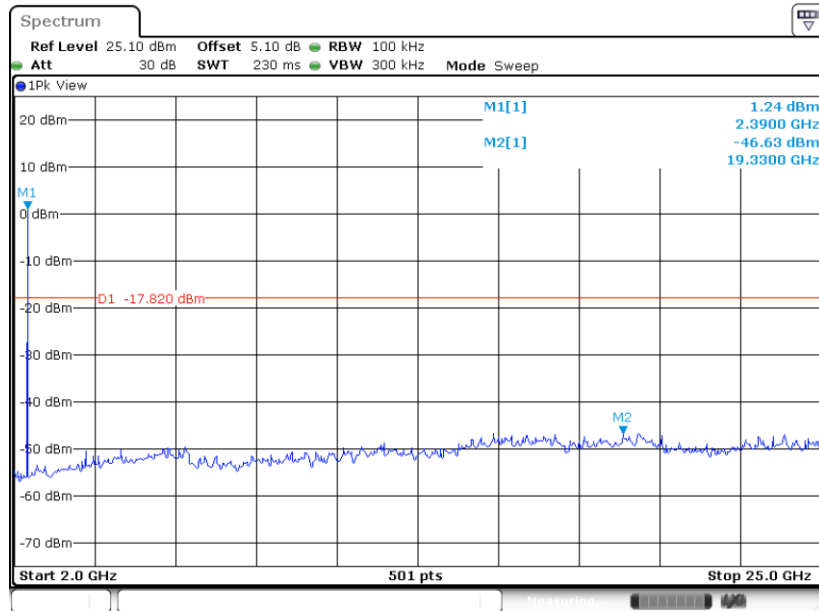
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GFSK Channel 00



Date: 14.APR.2022 19:51:27

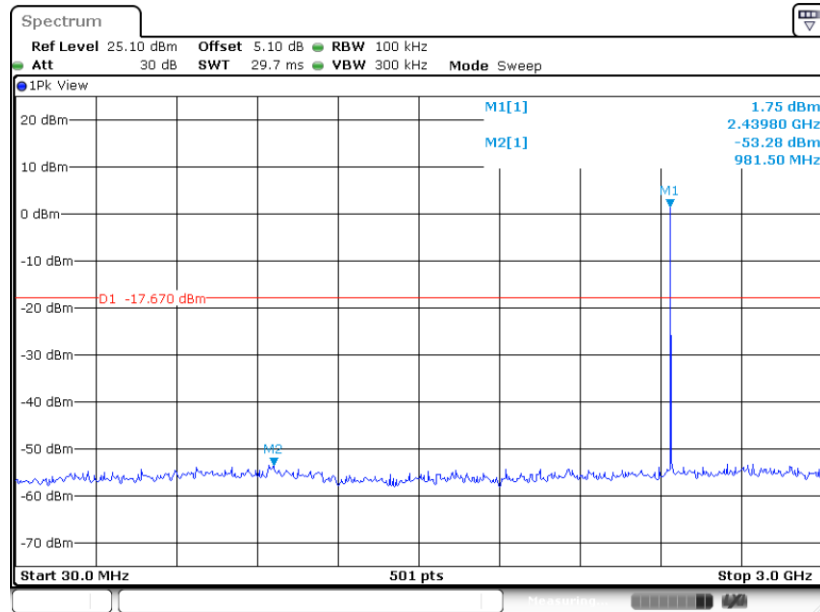
GFSK Channel 00



Date: 14.APR.2022 19:51:39

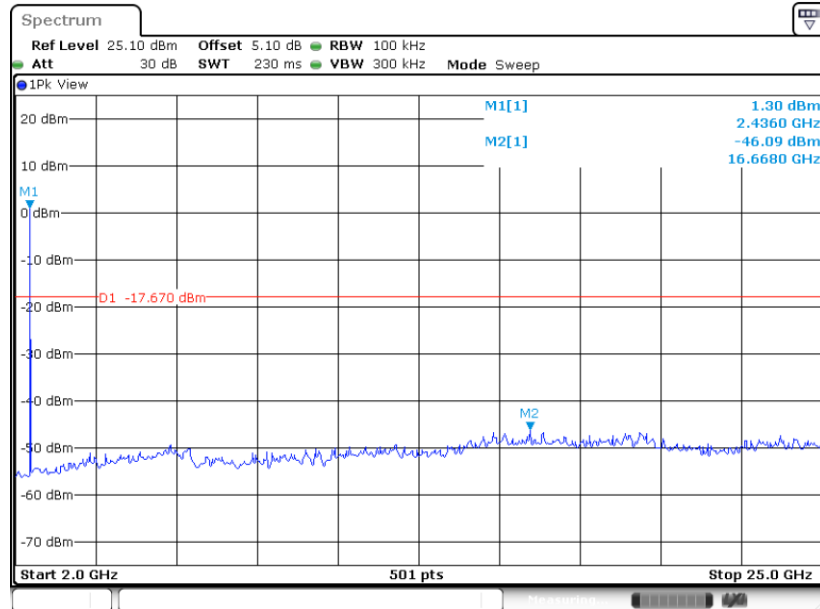


GFSK Channel 19



Date: 14.APR.2022 18:10:32

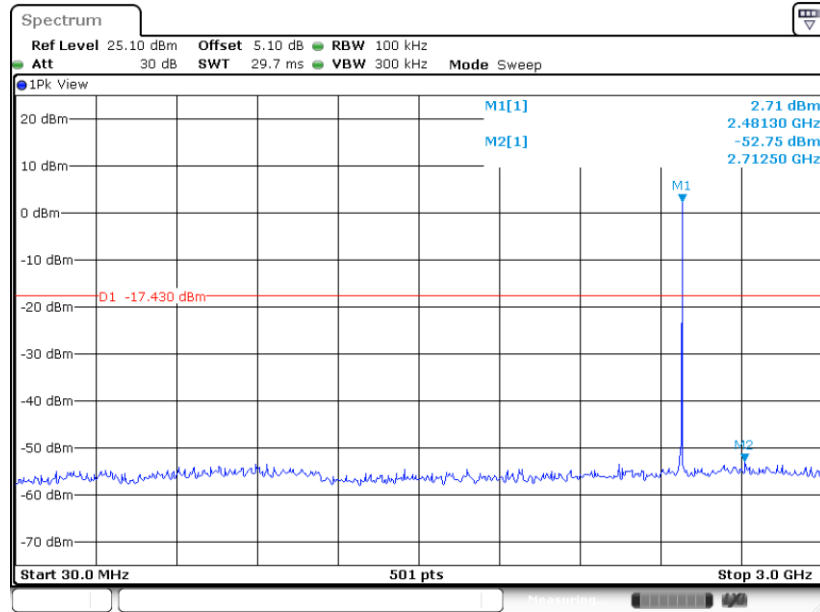
GFSK Channel 19



Date: 14.APR.2022 18:10:45

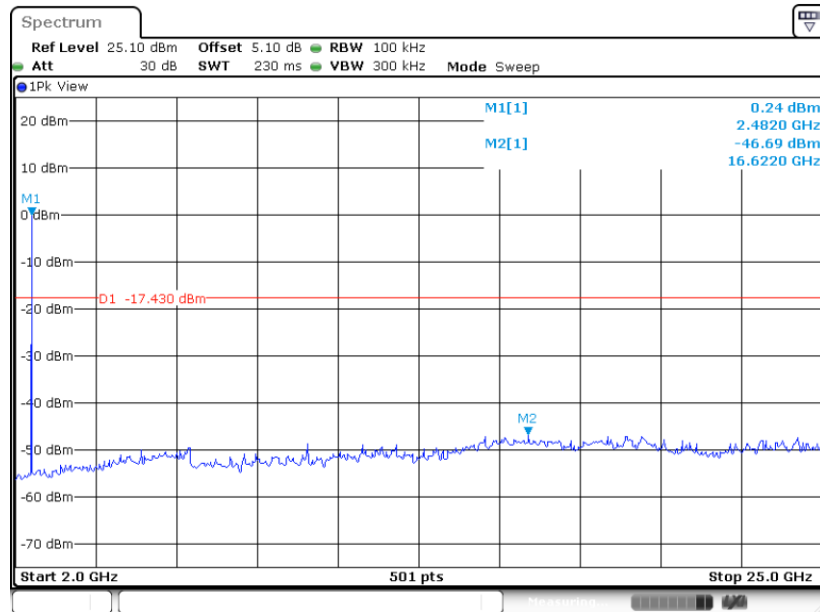


GFSK Channel 39



Date: 14.APR.2022 18:08:27

GFSK Channel 39

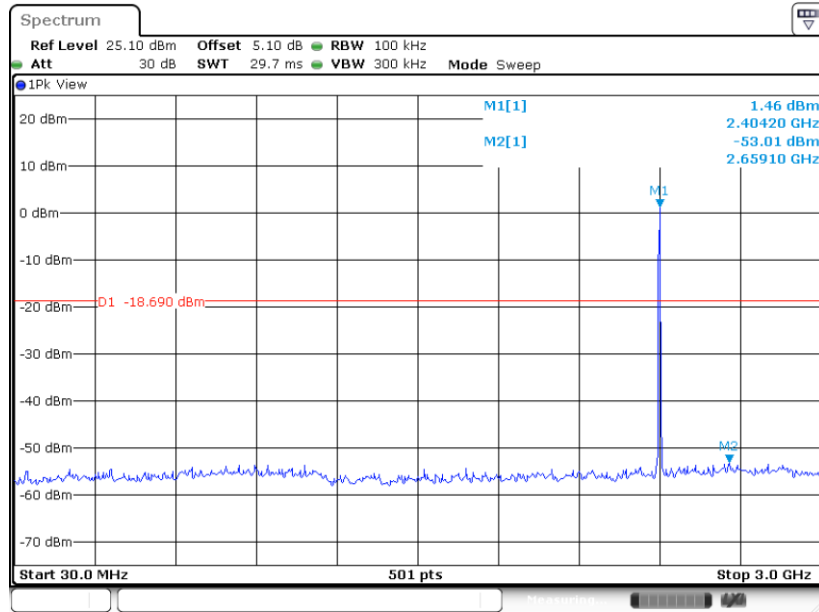


Date: 14.APR.2022 18:08:39



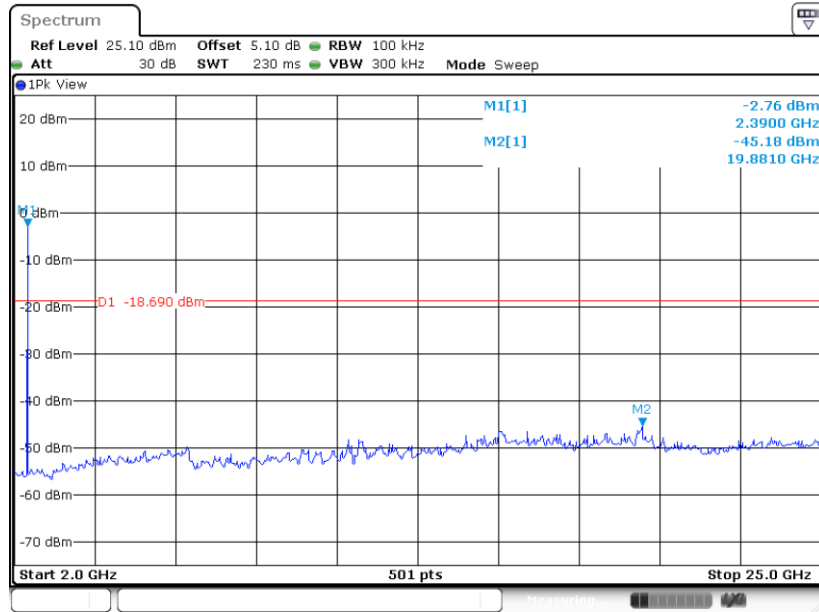
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GFSK Channel 00



Date: 14.APR.2022 19:43:21

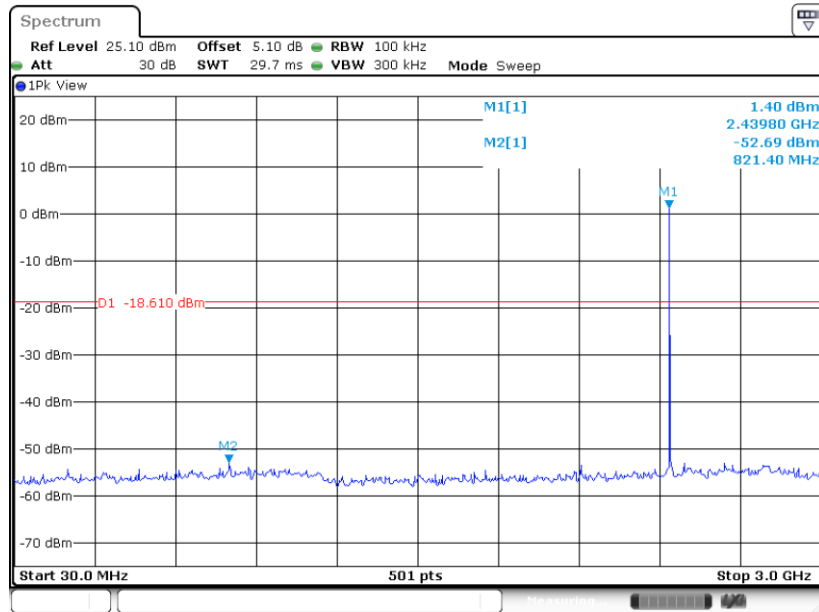
GFSK Channel 00



Date: 14.APR.2022 19:43:34

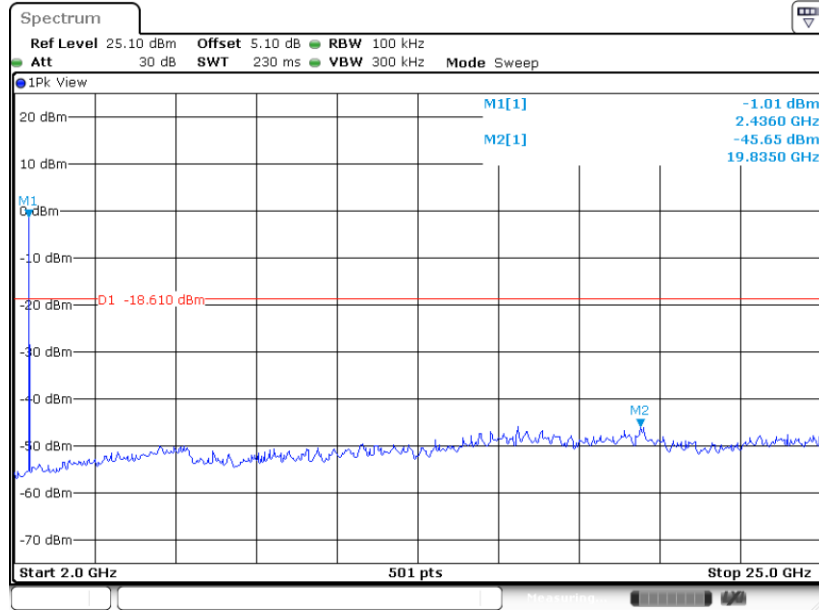


GFSK Channel 19



Date: 14.APR.2022 19:45:51

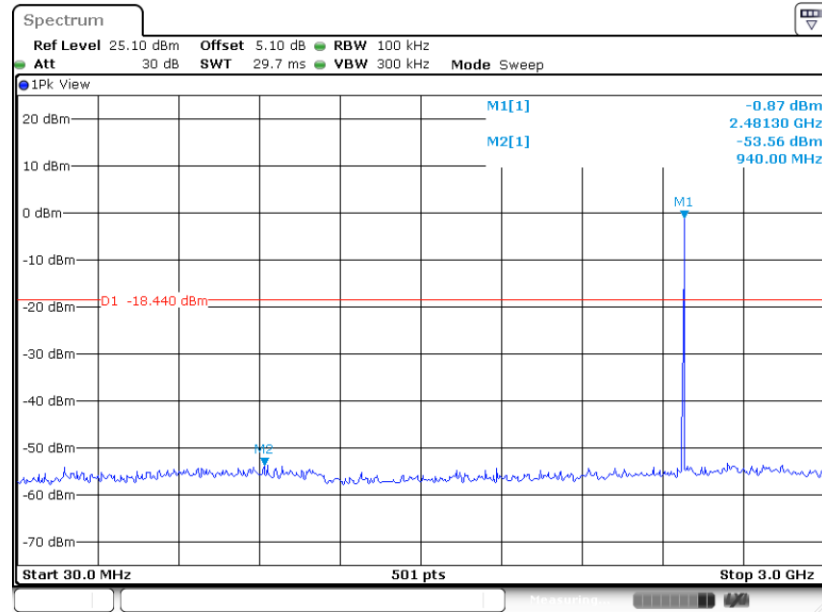
GFSK Channel 19



Date: 14.APR.2022 19:46:02

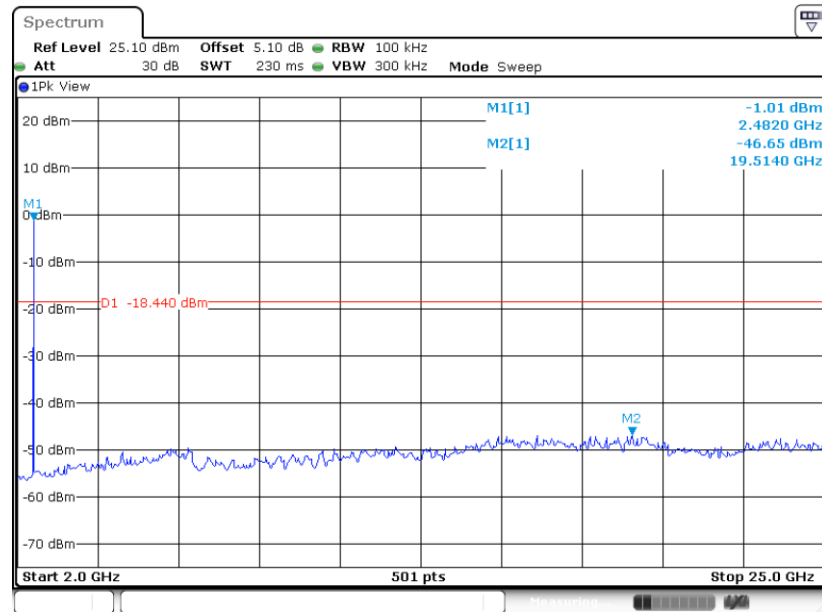


GFSK Channel 39



Date: 14.APR.2022 19:47:46

GFSK Channel 39



Date: 14.APR.2022 19:47:59



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 was 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

The section 4.0 of List of Measuring Equipment of this test report is used for test.

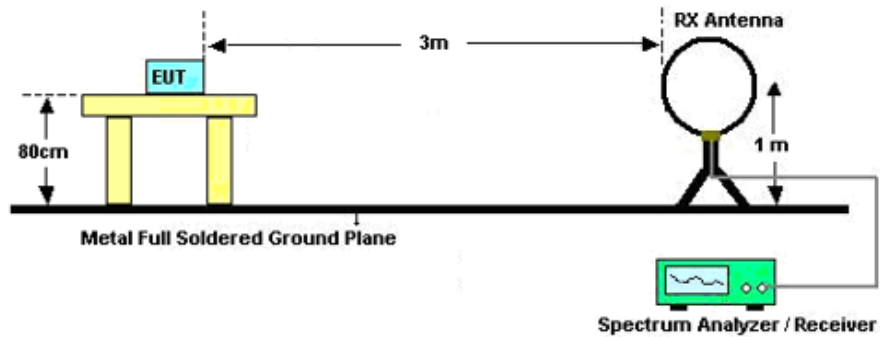


3.5.3 Test Procedures

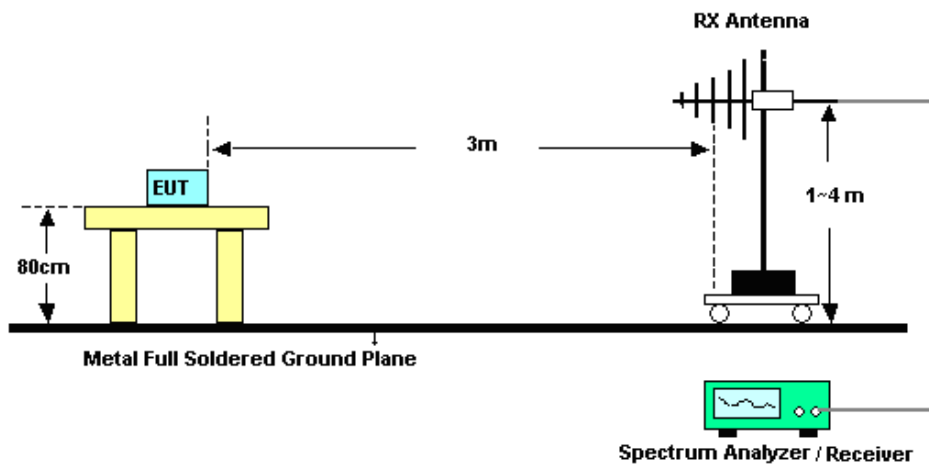
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
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= 3MHz 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

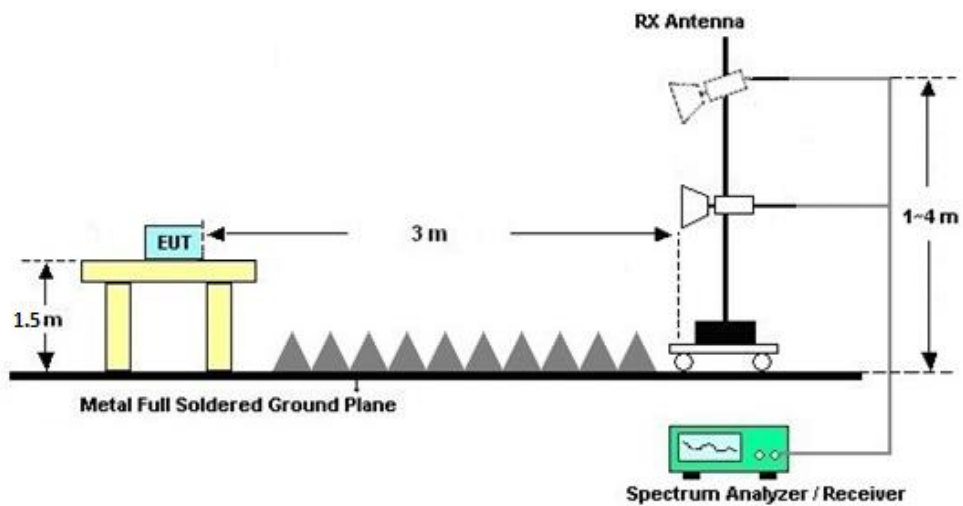
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.



3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

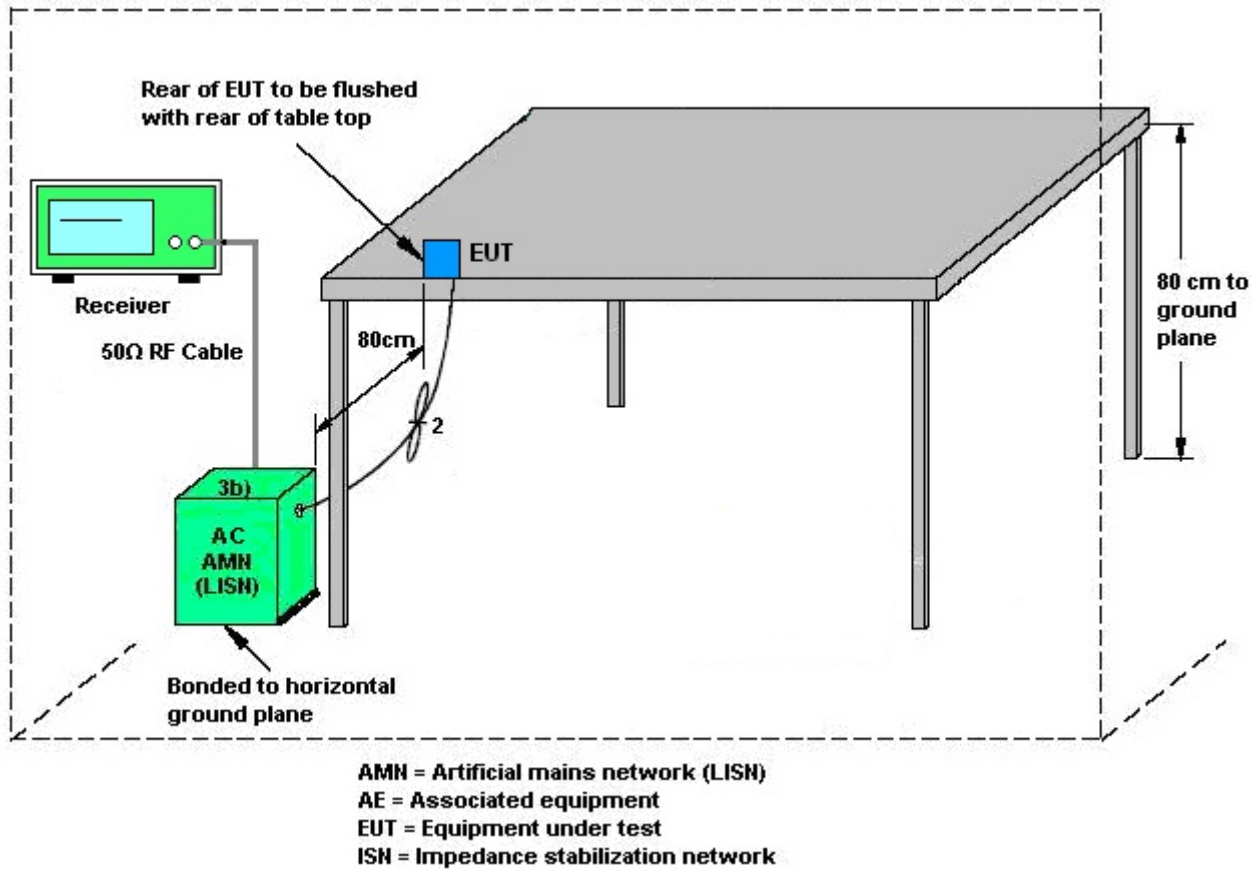
3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was 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 should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) 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

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Apr. 14, 2022~ Jun. 24, 2022	Oct. 13, 2022	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2022	Apr. 14, 2022~ Jun. 24, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2022	Apr. 14, 2022~ Jun. 24, 2022	Jan. 04, 2023	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz;M ax 30dBm	Oct. 16, 2021	Apr. 25, 2022	Oct. 15, 2022	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY551502 08	10Hz-44GHz	Apr. 11, 2022	Apr. 25, 2022	Apr. 10, 2023	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Apr. 25, 2022	Oct. 29, 2022	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	May 27, 2021	Apr. 25, 2022	May 26, 2022	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 24, 2022	Apr. 25, 2022	Apr. 23, 2023	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan 05, 2022	Apr. 25, 2022	Jan. 04 2023	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Apr. 12, 2022	Apr. 25, 2022	Apr. 11, 2023	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 05, 2022	Apr. 25, 2022	Jan. 04, 2023	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz-18Ghz	Jul. 30, 2021	Apr. 25, 2022	Jul. 29, 2022	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY532702 03	500MHz~26.5G Hz	Apr. 12, 2022	Apr. 25, 2022	Apr. 11, 2023	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Apr. 25, 2022	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Apr. 25, 2022	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Apr. 25, 2022	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 21, 2021	Mar. 30, 2022	Apr. 20, 2022	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 14, 2021	Mar. 30, 2022	Oct. 13, 2022	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 13, 2021	Mar. 30, 2022	Apr. 12, 2022	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 14, 2021	Mar. 30, 2022	Oct. 13, 2022	Conduction (CO01-KS)

NCR: No Calibration Required



5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.56 dB
Conducted Emissions	±0.92 dB
Occupied Channel Bandwidth	±0.03 %
Conducted Power Spectral Density	±0.54 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.9dB
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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))	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
---	-------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
---	-------

———— THE END ————



Appendix A. Conducted Test Results

Bluetooth Low Energy 1Mbps

Test Engineer:	LayLI	Temperature:	20~26	°C
Test Date:	2022/4/14~2022/6/24	Relative Humidity:	40~51	%

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	1.14	0.74	0.50	Pass
BLE	1Mbps	1	19	2440	1.05	0.70	0.50	Pass
BLE	1Mbps	1	39	2480	1.04	0.70	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	2.84	30.00	1.72	4.56	36.00	Pass
BLE	1Mbps	1	19	2440	2.86	30.00	1.72	4.58	36.00	Pass
BLE	1Mbps	1	39	2480	2.99	30.00	1.72	4.71	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	1Mbps	1	0	2402	0.77	2.72
BLE	1Mbps	1	19	2440	0.77	2.82
BLE	1Mbps	1	39	2480	0.77	2.94

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	2.18	-13.45	1.72	8.00	Pass
BLE	1Mbps	1	19	2440	2.33	-13.43	1.72	8.00	Pass
BLE	1Mbps	1	39	2480	2.57	-13.30	1.72	8.00	Pass

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

Bluetooth Low Energy 2Mbps

Test Engineer:	LayLI	Temperature:	20~26	°C
Test Date:	2022/4/14~2022/6/24	Relative Humidity:	40~51	%

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	0	1000	2.12	1.28	0.50	Pass
BLE	2Mbps	1	19	2440	2.04	1.26	0.50	Pass
BLE	2Mbps	1	39	2480	2.05	1.26	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	0	2402	2.80	30.00	1.72	4.52	36.00	Pass
BLE	2Mbps	1	19	2440	2.88	30.00	1.72	4.60	36.00	Pass
BLE	2Mbps	1	39	2480	2.98	30.00	1.72	4.70	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	2Mbps	1	0	2402	2.49	2.78
BLE	2Mbps	1	19	2440	2.49	2.82
BLE	2Mbps	1	39	2480	2.49	2.86

TEST RESULTS DATA
Peak Power Density

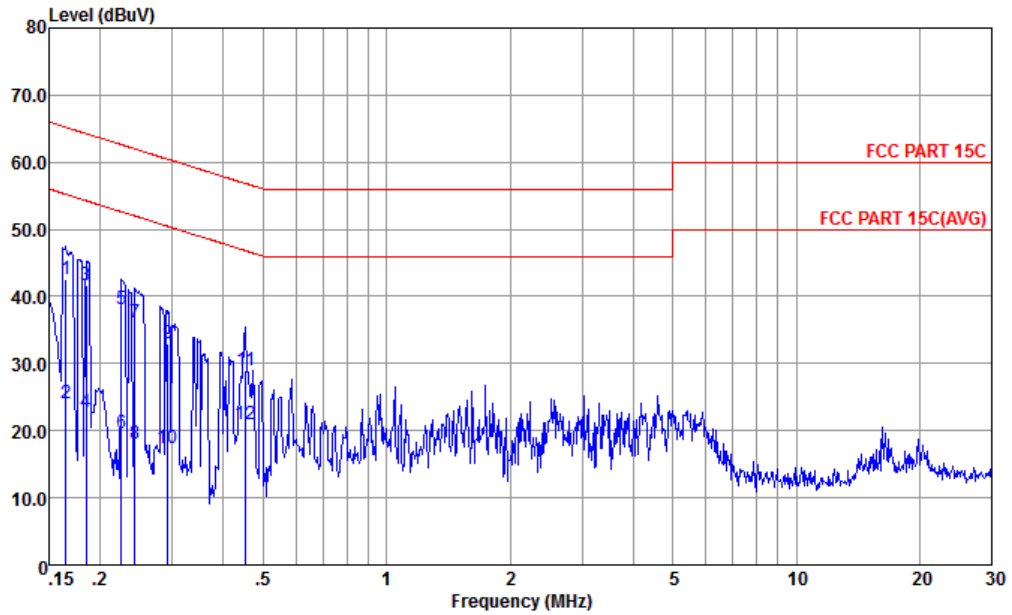
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	2Mbps	1	0	2402	1.31	-16.56	1.72	8.00	Pass
BLE	2Mbps	1	19	2440	1.39	-17.09	1.72	8.00	Pass
BLE	2Mbps	1	39	2480	1.56	-16.76	1.72	8.00	Pass

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



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

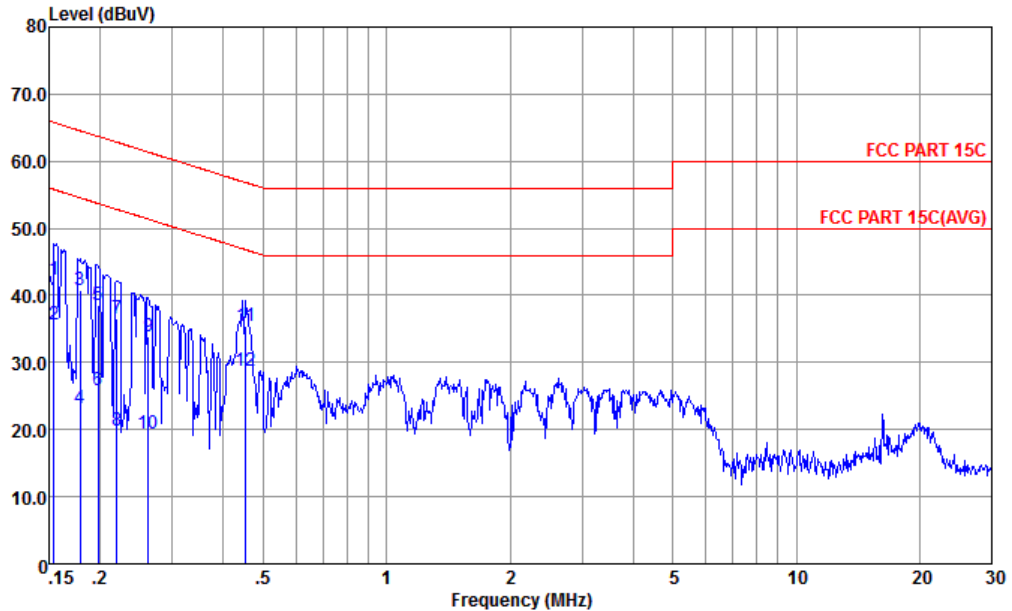


Site : CO01-KS
 Condition : FCC PART 15C LISN-060105-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.165	42.67	-22.54	65.21	32.20	0.03	10.44	QP
2	0.165	24.07	-31.14	65.21	13.60	0.03	10.44	Average
3	0.184	41.63	-22.65	64.28	31.20	0.03	10.40	QP
4	0.184	22.63	-31.65	64.28	12.20	0.03	10.40	Average
5	0.226	38.00	-24.61	62.61	27.60	0.05	10.35	QP
6	0.226	19.60	-33.01	52.61	9.20	0.05	10.35	Average
7	0.243	36.19	-25.81	62.00	25.80	0.05	10.34	QP
8	0.243	17.99	-34.01	52.00	7.60	0.05	10.34	Average
9	0.292	32.98	-27.48	60.46	22.60	0.07	10.31	QP
10	0.292	17.48	-32.98	50.46	7.10	0.07	10.31	Average
11	0.454	28.94	-27.86	56.80	18.60	0.09	10.25	QP
12	0.454	20.84	-25.96	46.80	10.50	0.09	10.25	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
 Condition : FCC PART 15C LISN-060105-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.154	42.38	-23.40	65.78	31.80	0.11	10.47	QP
2	0.154	35.68	-20.10	55.78	25.10	0.11	10.47	Average
3	0.179	40.71	-23.84	64.55	30.20	0.10	10.41	QP
4	0.179	23.11	-31.44	54.55	12.60	0.10	10.41	Average
5	0.198	38.57	-25.14	63.71	28.10	0.10	10.37	QP
6	0.198	25.77	-27.94	53.71	15.30	0.10	10.37	Average
7	0.220	36.65	-26.18	62.83	26.20	0.10	10.35	QP
8	0.220	19.75	-33.08	52.83	9.30	0.10	10.35	Average
9	0.262	33.93	-27.45	61.38	23.50	0.10	10.33	QP
10	0.262	19.33	-32.05	51.38	8.90	0.10	10.33	Average
11	0.454	35.46	-21.34	56.80	25.10	0.11	10.25	QP
12 *	0.454	28.66	-18.14	46.80	18.30	0.11	10.25	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

BLE-1Mbps (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		2378.77	55.65	-18.35	74	50.02	31.93	6.58	32.88	299	115	P	H
		2387.09	44.94	-9.06	54	39.21	32	6.61	32.88	299	115	A	H
	*	2402	93.66	-	-	87.89	32	6.61	32.84	299	115	P	H
	*	2402	92.91	-	-	87.14	32	6.61	32.84	299	115	A	H
		2369.93	55.44	-18.56	74	49.81	31.93	6.58	32.88	102	0	P	V
		2389.95	44.95	-9.05	54	39.18	32	6.61	32.84	102	0	A	V
	*	2402	101.75	-	-	95.98	32	6.61	32.84	102	0	P	V
	*	2402	101.09	-	-	95.32	32	6.61	32.84	102	0	A	V
BLE CH 39 2480MHz		2494	55.32	-18.68	74	48.94	32.2	6.75	32.57	124	150	P	H
		2483.5	45.17	-8.83	54	38.88	32.2	6.73	32.64	124	150	A	H
	*	2480	91.29	-	-	85	32.2	6.73	32.64	124	150	P	H
	*	2480	90.61	-	-	84.32	32.2	6.73	32.64	124	150	A	H
		2484.04	57.21	-16.79	74	50.92	32.2	6.73	32.64	226	0	P	V
		2483.5	47.94	-6.06	54	41.65	32.2	6.73	32.64	226	0	A	V
	*	2480	100.47	-	-	94.18	32.2	6.73	32.64	226	0	P	V
	*	2480	99.75	-	-	93.46	32.2	6.73	32.64	226	0	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



2.4GHz 2400~2483.5MHz
BLE-1Mbps (Harmonic @ 3m)

Table with 14 columns: BLE, Note, Frequency (MHz), Level (dBµV/m), Over Limit (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). Rows include BLE CH 00 2402MHz, BLE CH 19 2440MHz, and BLE CH 39 2480MHz.



2.4GHz 2400~2483.5MHz

BLE-2Mbps (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		2383.97	55.75	-18.25	74	50.12	31.93	6.58	32.88	381	122	P	H
		2389.56	44.6	-9.4	54	38.87	32	6.61	32.88	381	122	A	H
	*	2402	93.94	-	-	88.17	32	6.61	32.84	381	122	P	H
	*	2402	92.43	-	-	86.66	32	6.61	32.84	381	122	A	H
		2351.34	55.27	-18.73	74	49.86	31.8	6.53	32.92	100	0	P	V
		2389.56	44.99	-9.01	54	39.26	32	6.61	32.88	100	0	A	V
	*	2402	100.46	-	-	94.69	32	6.61	32.84	100	0	P	V
	*	2402	98.91	-	-	93.14	32	6.61	32.84	100	0	A	V
BLE CH 39 2480MHz		2494.66	55.07	-18.93	74	48.69	32.2	6.75	32.57	100	145	P	H
		2483.5	45.79	-8.21	54	39.5	32.2	6.73	32.64	100	145	A	H
	*	2480	90.93	-	-	84.64	32.2	6.73	32.64	100	145	P	H
	*	2480	89.34	-	-	83.05	32.2	6.73	32.64	100	145	A	H
		2483.74	56.68	-17.32	74	50.39	32.2	6.73	32.64	126	6	P	V
		2483.5	49.69	-4.31	54	43.4	32.2	6.73	32.64	126	6	A	V
	*	2480	99.7	-	-	93.41	32.2	6.73	32.64	126	6	P	V
	*	2480	98.14	-	-	91.85	32.2	6.73	32.64	126	6	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
BLE-2Mbps (Harmonic @ 3m)

Table with 14 columns: BLE, Note, Frequency (MHz), Level (dBµV/m), Over Limit (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). Rows include BLE CH 00 (2402MHz) and BLE CH 19 (2440MHz) and BLE CH 39 (2480MHz) with multiple frequency entries.

Remark

- 1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



2.4GHz 2400~2483.5MHz

BLE-2Mbps--With Clip (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 39 2480MHz		2492.08	55.46	-18.54	74	49.08	32.2	6.75	32.57	102	78	P	H
		2483.5	45.27	-8.73	54	38.98	32.2	6.73	32.64	102	78	A	H
	*	2480	86.85	-	-	80.56	32.2	6.73	32.64	102	78	P	H
	*	2480	85.29	-	-	79	32.2	6.73	32.64	102	78	A	H
		2487.64	57.23	-16.77	74	50.92	32.2	6.75	32.64	224	0	P	V
		2483.5	50.37	-3.63	54	44.08	32.2	6.73	32.64	224	0	A	V
	*	2480	100.48	-	-	94.19	32.2	6.73	32.64	224	0	P	V
	*	2480	99.04	-	-	92.75	32.2	6.73	32.64	224	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BLE-2Mbps--With Clip (Harmonic @ 3m)

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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		4965	44.15	-29.85	74	62.35	33.9	9.61	61.71	300	0	P	H
		7440	42.45	-31.55	74	57.04	35.7	11.78	62.07	300	0	P	H
		4965	45.88	-28.12	74	64.08	33.9	9.61	61.71	100	0	P	V
		7440	42.26	-31.74	74	56.85	35.7	11.78	62.07	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BLE LF		30	23.68	-16.32	40	29.31	25.15	0.45	31.23	-	-	P	H
		250.19	20.38	-25.62	46	31.03	18.58	2.13	31.36	-	-	P	H
		444.19	24.97	-21.03	46	30.8	22.59	2.84	31.26	-	-	P	H
		619.76	28.16	-17.84	46	30.89	25.18	3.37	31.28	-	-	P	H
		763.32	30.18	-15.82	46	31.79	25.8	3.73	31.14	-	-	P	H
		831.22	31.31	-14.69	46	32.24	26.47	3.89	31.29	-	-	P	H
		30.97	29.08	-10.92	40	34.89	24.98	0.46	31.25	-	-	P	V
		75.59	23.58	-16.42	40	40.77	13.64	1.03	31.86	-	-	P	V
		157.07	18.64	-24.86	43.5	30.94	17.34	1.68	31.32	-	-	P	V
		362.71	22.94	-23.06	46	30.18	21.73	2.57	31.54	-	-	P	V
		531.49	28.08	-17.92	46	31.12	25.38	3.11	31.53	-	-	P	V
		734.22	30.38	-15.62	46	31.59	26.25	3.66	31.12	-	-	P	V
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.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



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

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		(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. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

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

For Average Limit @ 2390MHz:

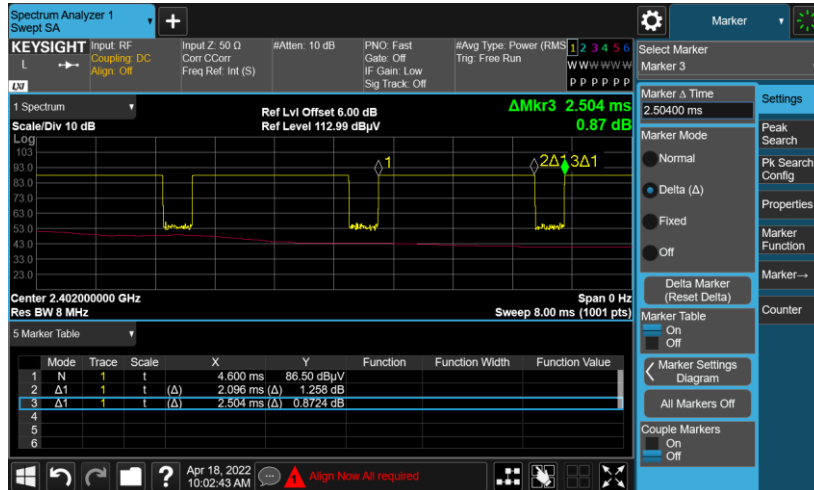
1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

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

Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Bluetooth –LE 1Mbps	83.71	2.096	0.477	0.51kHz
Bluetooth –LE 2Mbps	56.00	1.050	0.952	1kHz

Bluetooth – LE 1Mbps



Bluetooth – LE 2Mbps

