FCC RF Test Report

APPLICANT : PAX Technology Limited

EQUIPMENT: UNATTENDED PAYMENT TERMINAL

BRAND NAME : PAX MODEL NAME : IM25

FCC ID : V5PIM254GBW

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

TEST DATE(S) : Jun. 12, 2024 ~ Jun. 19, 2024

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

JasonJia

Approved by: Jason Jia





Report No.: FR452701B

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 1 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

TABLE OF CONTENTS

RE\	/ISIOI	N HISTORY	3
SU	MMAR	Y OF TEST RESULT	4
1	GENE	ERAL DESCRIPTION	5
	1.1	Applicant	5
	1.2	Manufacturer	5
	1.3	Product Feature of Equipment Under Test	5
	1.4	Product Specification of Equipment Under Test	5
	1.5	Modification of EUT	5
	1.6	Testing Location	6
	1.7	Test Software	6
	1.8	Applicable Standards	7
2	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	8
	2.1	Carrier Frequency Channel	8
	2.2	Test Mode	9
	2.3	Connection Diagram of Test System	10
	2.4	Support Unit used in test configuration and system	11
	2.5	EUT Operation Test Setup	11
	2.6	Measurement Results Explanation Example	11
3	TEST	RESULT	12
	3.1	6dB and 99% Bandwidth Measurement	12
	3.2	Output Power Measurement	19
	3.3	Power Spectral Density Measurement	20
	3.4	Conducted Band Edges and Spurious Emission Measurement	27
	3.5	Radiated Band Edges and Spurious Emission Measurement	36
	3.6	AC Conducted Emission Measurement	40
	3.7	Antenna Requirements	42
4	LIST	OF MEASURING EQUIPMENT	43
5	MEAS	SUREMENT UNCERTAINTY	44
APF	PENDI	X A. CONDUCTED TEST RESULTS	
APF	PENDI	IX B. AC CONDUCTED EMISSION TEST RESULT	
APF	PENDI	IX C. RADIATED SPURIOUS EMISSION	
APF	PENDI	X D. DUTY CYCLE PLOTS	
APF	PENDI	IX E. SETUP PHOTOGRAPHS	

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 2 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR452701B	Rev. 01	Initial issue of report	Jul. 04, 2024

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 3 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

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 12.35 dB at 34.85 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 20.31 dB at 1.04 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Conformity Assessment Condition:

- 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.

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 4 of 44

Report Issued Date : Jul. 04, 2024

Report Version : Rev. 01

Report No.: FR452701B

1 General Description

1.1 Applicant

PAX Technology Limited

Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

1.2 Manufacturer

PAX Computer Technology (Shenzhen) Co., Ltd.

Room 701, PAX Technology Building, Shanxia Community, Pinghu Sub-district, Longgang District, Shenzhen, China

Report No.: FR452701B

1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment UNATTENDED PAYMENT TERMINAL				
Brand Name	PAX			
Model Name	IM25			
FCC ID	V5PIM254GBW			
IMEI Code	Conducted: 868862041173125 Conduction: 868862041175229 Radiation: 868862041177571			
HW Version	NA			
SW Version	NA			
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	BLE 1Mbps: 3.36 dBm (0.0022 W)			
Maximum Output Power to Antenna	BLE 2Mbps: 3.35 dBm (0.0022 W)			
99% Occupied Bandwidth	BLE 1Mbps:1.049MHz			
99% Occupied Bandwidth	BLE 2Mbps:2.070MHz			
Antenna Type / Gain	FPC Antenna with gain -1.83 dBi			
Type of Modulation	Bluetooth LE : GFSK			

1.5 Modification of EUT

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

 Sporton International Inc. (ShenZhen)
 Page Number
 : 5 of 44

 TEL: +86-755-8637-9589
 Report Issued Date
 : Jul. 04, 2024

 FAX: +86-755-8637-9595
 Report Version
 : Rev. 01

FCC ID: V5PIM254GBW Report Template No.: BU5-FR15CBT4.0 Version 2.0

1.6 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Report No.: FR452701B

Test Firm	Sporton International Inc. (ShenZhen)				
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595				
	Sporton Site No.	FCC Designation No.	FCC Test Firm		
Test Site No.	oporton one no.	1 00 Designation No.	Registration No.		
	CO01-SZ TH01-SZ	CN1256	421272		

Test Firm	Sporton International Inc. (ShenZhen)				
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985				
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.		
	03CH01-SZ	CN1256	421272		

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-SZ	AUDIX	E3	6.120613b

 Sporton International Inc. (ShenZhen)
 Page Number
 : 6 of 44

 TEL: +86-755-8637-9589
 Report Issued Date
 : Jul. 04, 2024

 FAX: +86-755-8637-9595
 Report Version
 : Rev. 01

FCC ID: V5PIM254GBW Report Template No.: BU5-FR15CBT4.0 Version 2.0

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:

- 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.

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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 7 of 44

Report Issued Date : Jul. 04, 2024

Report Version : Rev. 01

Report Template No.: BU5-FR15CBT4.0 Version 2.0

2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (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
2400-2483.5 MHz	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	-	-

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 8 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01
Report Template No.: BU5-FR15CBT4.0 Version 2.0

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. 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				
Took Itom	Data Rate / Modulation				
Test Item	Bluetooth – LE / GFSK				
	Mode 1: Bluetooth Tx CH00_2402 MHz_BLE 1Mbps				
	Mode 2: Bluetooth Tx CH19_2440 MHz_BLE 1Mbps				
Conducted	Mode 3: Bluetooth Tx CH39_2480 MHz_BLE 1Mbps				
TCs	Mode 4: Bluetooth Tx CH00_2402 MHz_BLE 2Mbps				
	Mode 5: Bluetooth Tx CH19_2440 MHz_BLE 2Mbps				
	Mode 6: Bluetooth Tx CH39_2480 MHz_BLE 2Mbps				
	Mode 1: Bluetooth Tx CH00_2402 MHz_BLE 1Mbps				
	Mode 2: Bluetooth Tx CH19_2440 MHz_BLE 1Mbps				
Radiated	Mode 3: Bluetooth Tx CH39_2480 MHz_BLE 1Mbps				
TCs	Mode 4: Bluetooth Tx CH00_2402 MHz_BLE 2Mbps				
	Mode 5: Bluetooth Tx CH19_2440 MHz_BLE 2Mbps				
	Mode 6: Bluetooth Tx CH39_2480 MHz_BLE 2Mbps				
AC	AC				
Conducted	Mode 1: WCDMA Band5+ANT1+ Idle + Bluetooth Link +Adapter +MDB Port				
Emission					
Remark: For F	Remark: For Radiated Test Cases, the tests were performance with Adapter.				

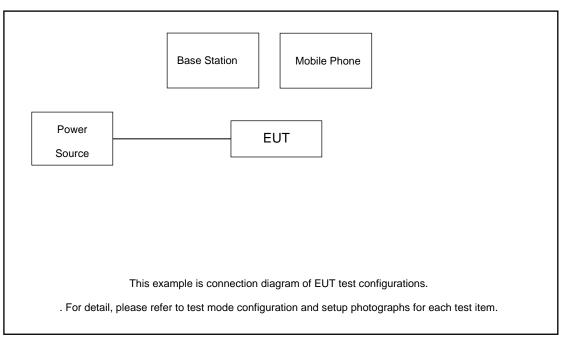
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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 9 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

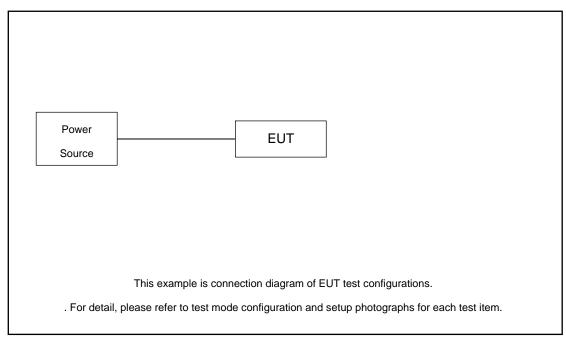
Report Template No.: BU5-FR15CBT4.0 Version 2.0

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 10 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Mobile Phone	N/A	N/A	N/A	N/A	N/A
3.	AC Adapter	N/A	ADS-65HI-19A-2 24065E	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 1.30 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
=
$$1.30 + 10 = 11.30$$
 (dB)

FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 11 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

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.

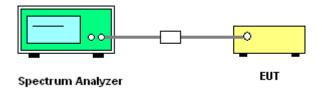
3.1.2 Measuring Instruments

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.
- Measure and record the results in the test report.

3.1.4 Test Setup



Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 12 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

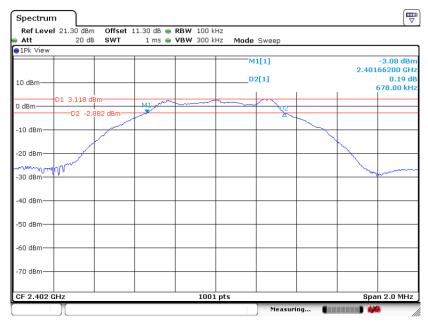
Report No.: FR452701B

3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

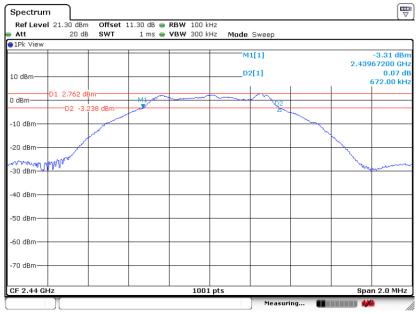
BLE 1Mbps

6 dB Bandwidth Plot on Channel 00



Date: 12.JUN.2024 13:59:02

6 dB Bandwidth Plot on Channel 19



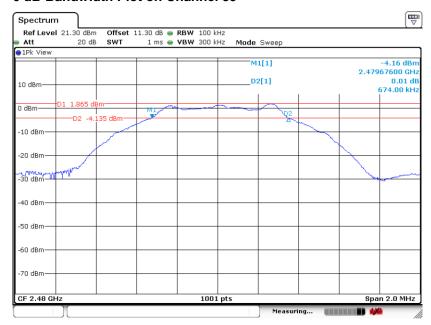
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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 13 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

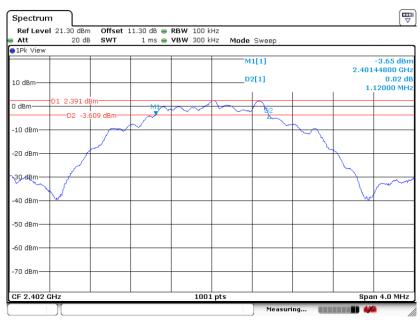
6 dB Bandwidth Plot on Channel 39



Date: 12.JUN.2024 14:11:46

BLE 2Mbps

6 dB Bandwidth Plot on Channel 00

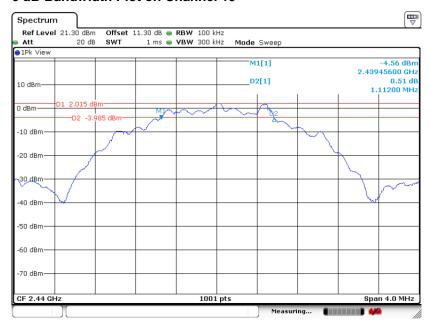


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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 14 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

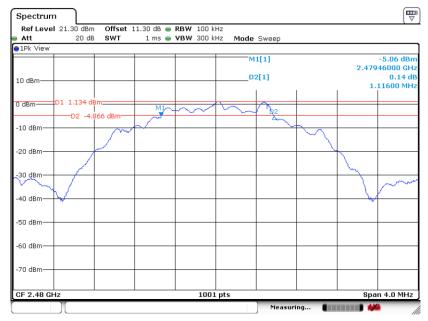
Report No.: FR452701B

6 dB Bandwidth Plot on Channel 19



Date: 12.JUN.2024 14:28:55

6 dB Bandwidth Plot on Channel 39



Date: 12.JUN.2024 14:32:09

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 15 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

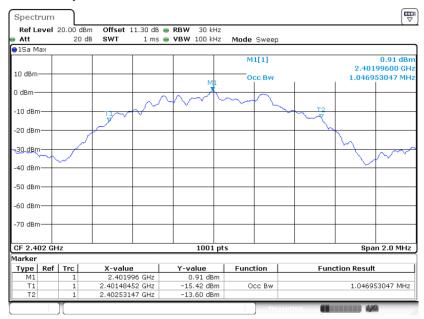
Report No.: FR452701B

3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

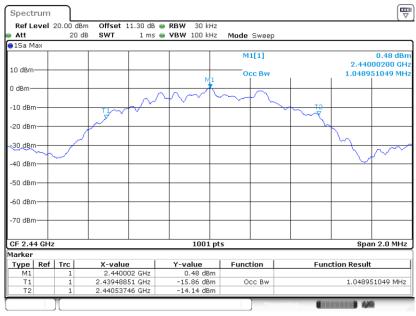
BLE 1Mbps

99% Occupied Bandwidth Plot on Channel 00



Date: 12.JUN.2024 13:58:43

99% Occupied Bandwidth Plot on Channel 19



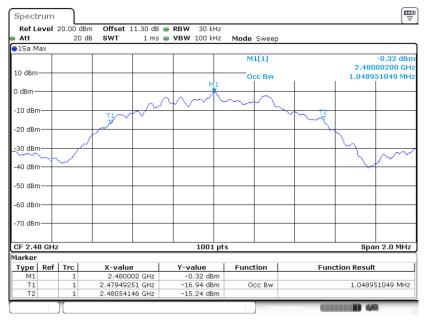
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Sporton International Inc. (ShenZhen)
TEL: +86-755-8637-9589

FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 16 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

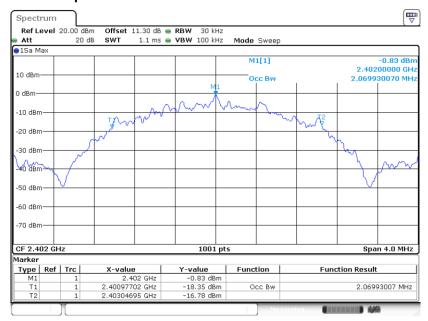
99% Occupied Bandwidth Plot on Channel 39



Date: 12.JUN.2024 14:11:13

BLE 2Mbps

99% Occupied Bandwidth Plot on Channel 00



Date: 12.JUN.2024 14:21:16

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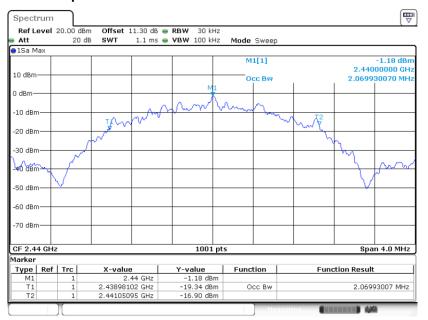
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 17 of 44

Report Issued Date : Jul. 04, 2024

Report Version : Rev. 01

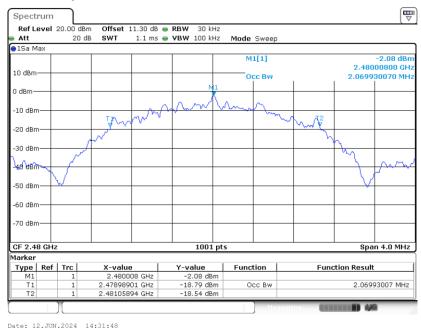
Report No.: FR452701B

99% Occupied Bandwidth Plot on Channel 19



Date: 12.JUN.2024 14:28:35

99% Occupied Bandwidth Plot on Channel 39



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

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 18 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

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.

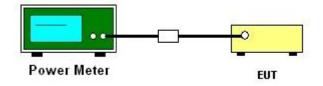
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

- 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.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 19 of 44

Report Issued Date : Jul. 04, 2024

Report Version : Rev. 01

Report No.: FR452701B

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.

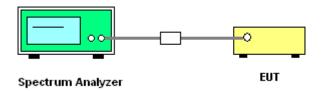
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

- 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.
- 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.

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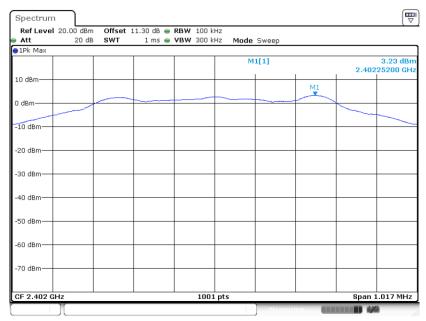
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 20 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

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

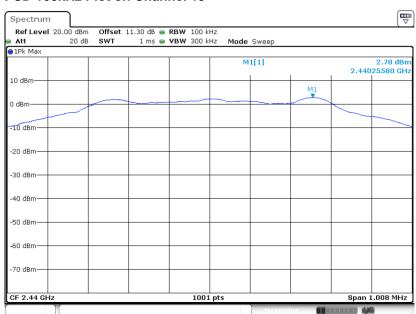
BLE 1Mbps

PSD 100kHz Plot on Channel 00



Date: 12.JUN.2024 13:59:56

PSD 100kHz Plot on Channel 19



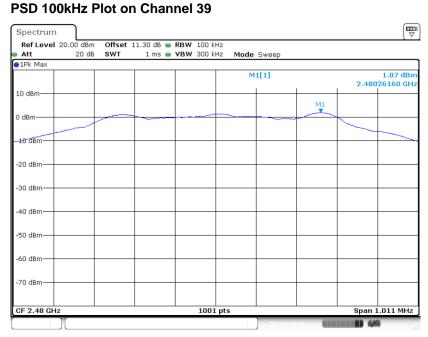
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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 21 of 44

Report Issued Date : Jul. 04, 2024

Report Version : Rev. 01

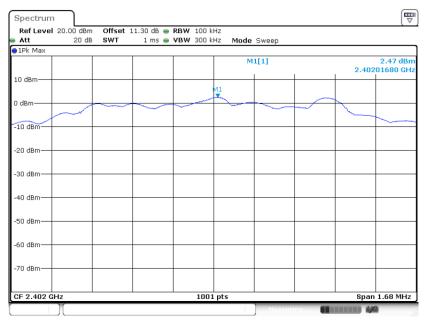
Report No.: FR452701B



Date: 12.JUN.2024 14:12:36

BLE 2Mbps

PSD 100kHz Plot on Channel 00



Date: 12.JUN.2024 14:22:25

Sporton International Inc. (ShenZhen)

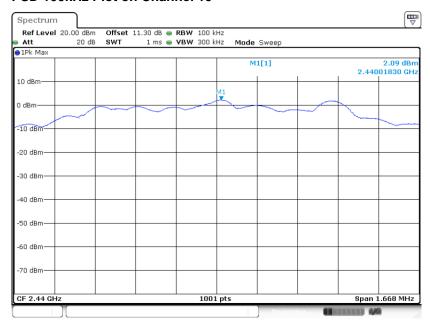
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 22 of 44

Report Issued Date : Jul. 04, 2024

Report Version : Rev. 01

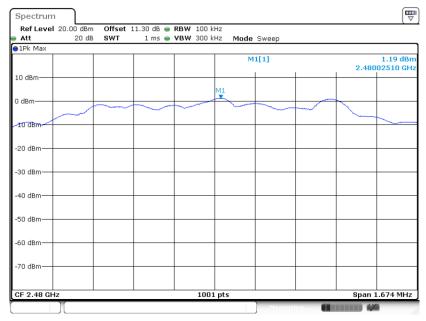
Report No.: FR452701B

PSD 100kHz Plot on Channel 19



Date: 12.JUN.2024 14:29:56

PSD 100kHz Plot on Channel 39



Date: 12.JUN.2024 14:32:54

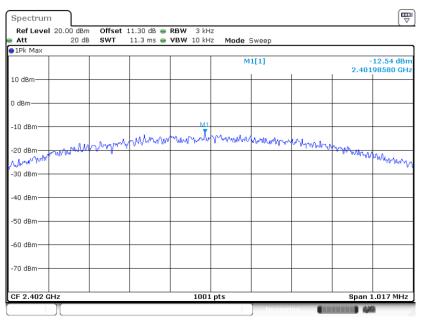
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 23 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

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

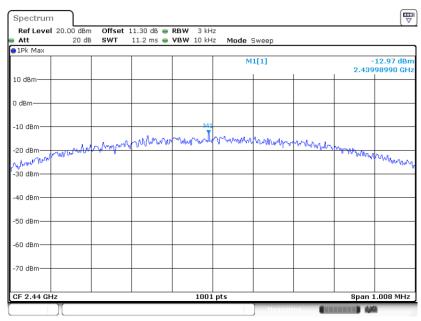
BLE 1Mbps

PSD 3kHz Plot on Channel 00



Date: 12.JUN.2024 13:59:22

PSD 3kHz Plot on Channel 19

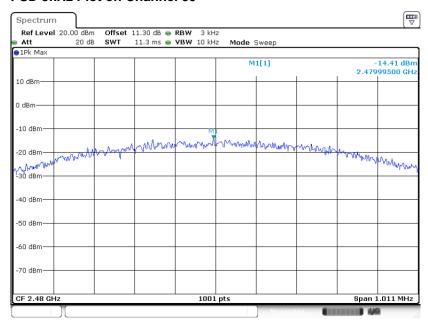


Date: 12.JUN.2024 14:08:21

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 24 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

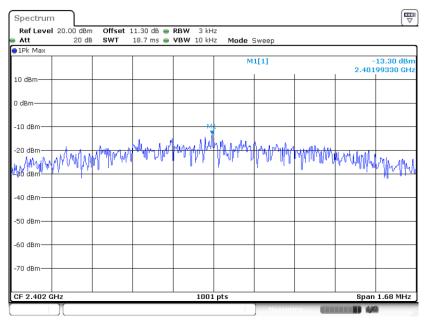
PSD 3kHz Plot on Channel 39



Date: 12.JUN.2024 14:12:07

BLE 2Mbps

PSD 3kHz Plot on Channel 00



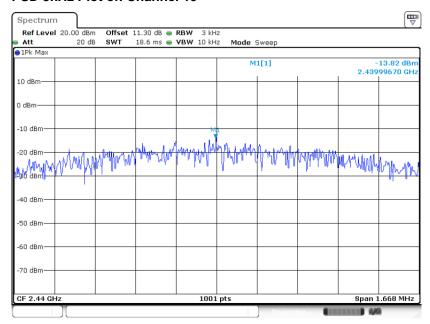
Date: 12.JUN.2024 14:22:00

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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 25 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

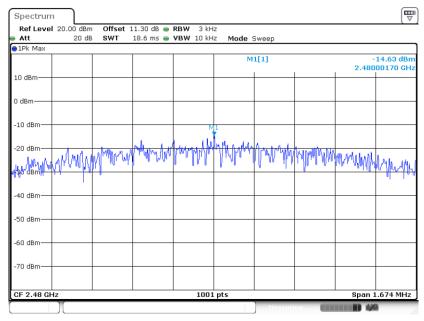
Report No.: FR452701B

PSD 3kHz Plot on Channel 19



Date: 12.JUN.2024 14:29:31

PSD 3kHz Plot on Channel 39



Date: 12.JUN.2024 14:32:29

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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 26 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

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.

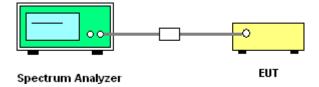
3.4.2 Measuring Instruments

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



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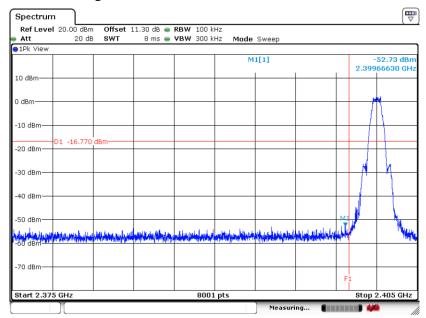
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 27 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

3.4.5 Test Result of Conducted Band Edges Plots

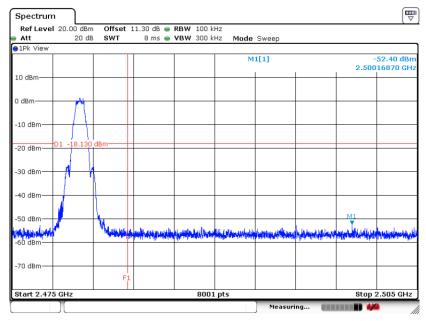
BLE 1Mbps

Low Band Edge Plot on Channel 00



Date: 12.JUN.2024 14:02:12

High Band Edge Plot on Channel 39



Date: 12.JUN.2024 14:18:38

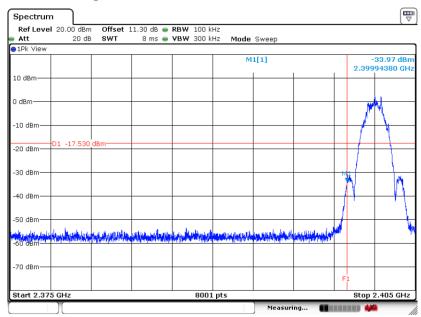
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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 28 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

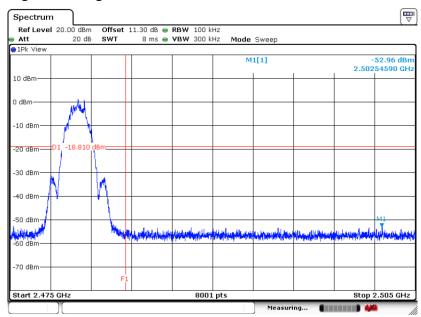
BLE 2Mbps

Low Band Edge Plot on Channel 00



Date: 12.JUN.2024 14:23:48

High Band Edge Plot on Channel 39



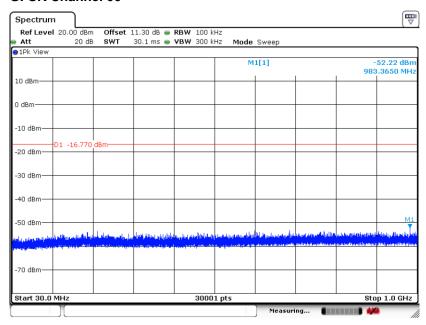
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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 29 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

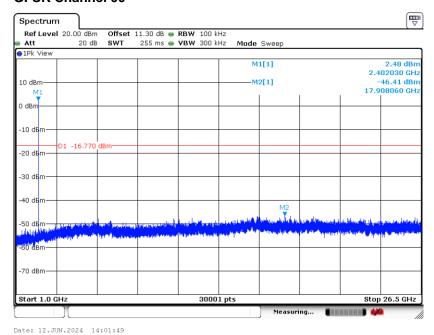
3.4.6 Test Result of Conducted Spurious Emission Plots

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



Date: 12.JUN.2024 14:01:32

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00

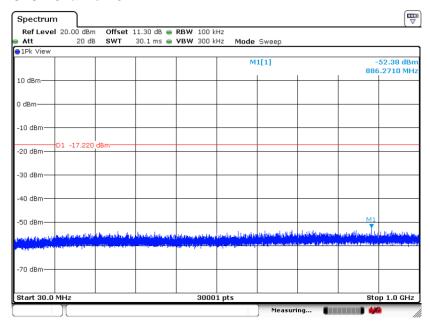


Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 30 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

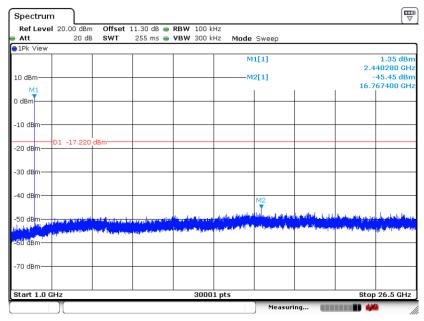
Report No.: FR452701B

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



Date: 12.JUN.2024 14:09:42

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



Date: 12.JUN.2024 14:10:00

Sporton International Inc. (ShenZhen)

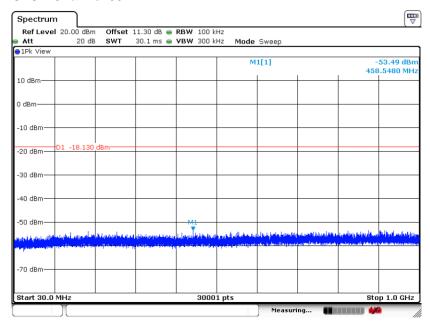
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 31 of 44

Report Issued Date : Jul. 04, 2024

Report Version : Rev. 01

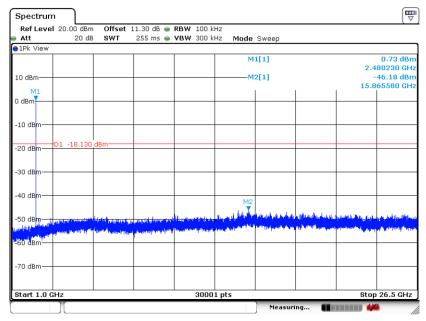
Report No.: FR452701B

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



Date: 12.JUN.2024 14:13:08

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



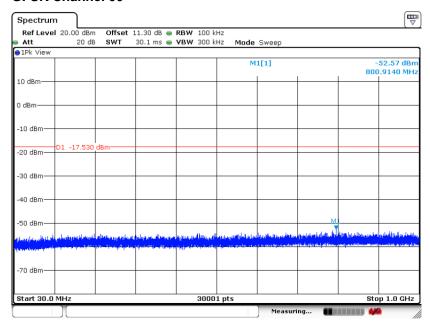
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Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 32 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

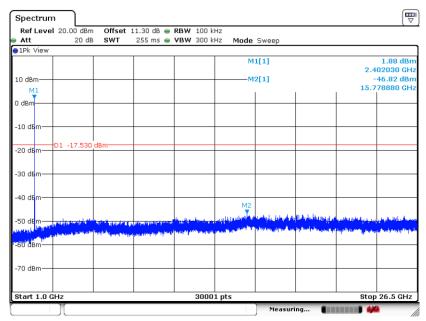
Report No.: FR452701B

Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 00



Date: 12.JUN.2024 14:26:59

Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 00



Date: 12.JUN.2024 14:27:31

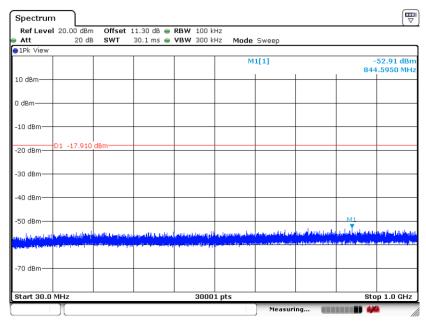
Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 33 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

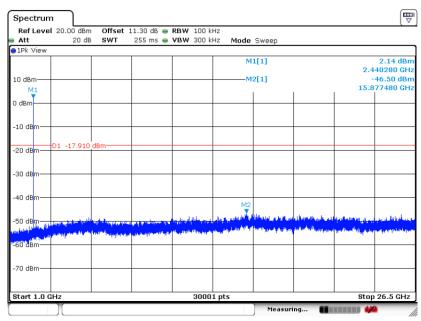
Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 19

Report No.: FR452701B



Date: 12.JUN.2024 14:30:17

Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 19



Date: 12.JUN.2024 14:30:40

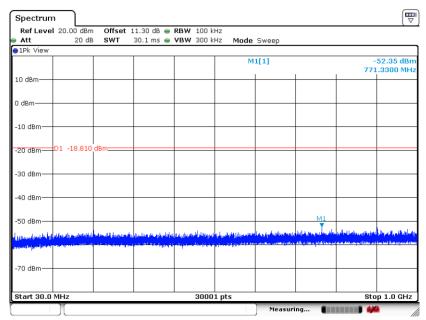
Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 34 of 44

Report Issued Date : Jul. 04, 2024

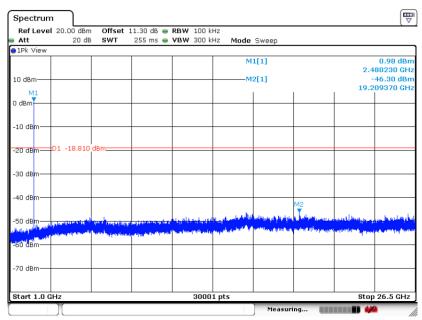
Report Version : Rev. 01

Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 39



Date: 12.JUN.2024 14:39:09

Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 39



Date: 12.JUN.2024 14:39:29

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TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 35 of 44

Report Issued Date : Jul. 04, 2024

Report Version : Rev. 01

Report Template No.: BU5-FR15CBT4.0 Version 2.0

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	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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.

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 36 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

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.

Report No.: FR452701B

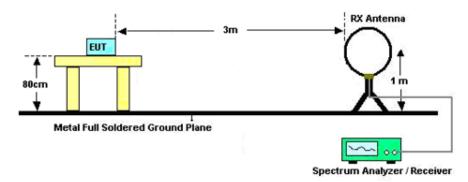
- 3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- The EUT was set 3 meters from the interference receiving antenna, which was mounted on the 4. top of a variable height antenna tower.
- 5. Corrected Reading: 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.
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than 7. 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 ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement. For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Sporton International Inc. (ShenZhen) Page Number : 37 of 44 TEL: +86-755-8637-9589 Report Issued Date: Jul. 04, 2024 Report Version : Rev. 01

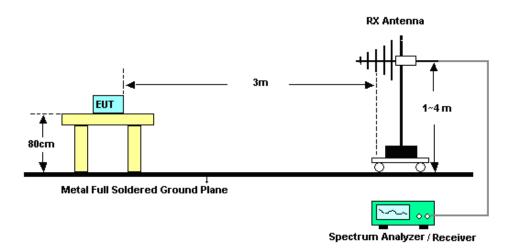
FCC ID: V5PIM254GBW Report Template No.: BU5-FR15CBT4.0 Version 2.0

3.5.4 Test Setup

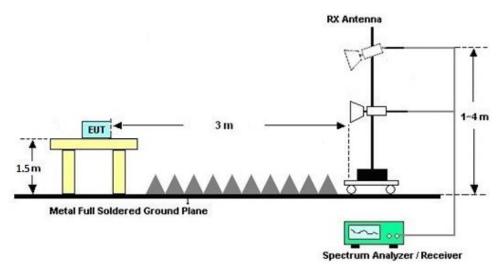
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 38 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

Report Template No.: BU5-FR15CBT4.0 Version 2.0

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.

Report No.: FR452701B

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.

 Sporton International Inc. (ShenZhen)
 Page Number
 : 39 of 44

 TEL: +86-755-8637-9589
 Report Issued Date
 : Jul. 04, 2024

 FAX: +86-755-8637-9595
 Report Version
 : Rev. 01

FCC ID: V5PIM254GBW

Report Template No.: BU5-FR15CBT4.0 Version 2.0

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.

Report No.: FR452701B

: 40 of 44

Fraguency of emission (MUz)	Conducted limit (dBμV)					
Frequency of emission (MHz)	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.

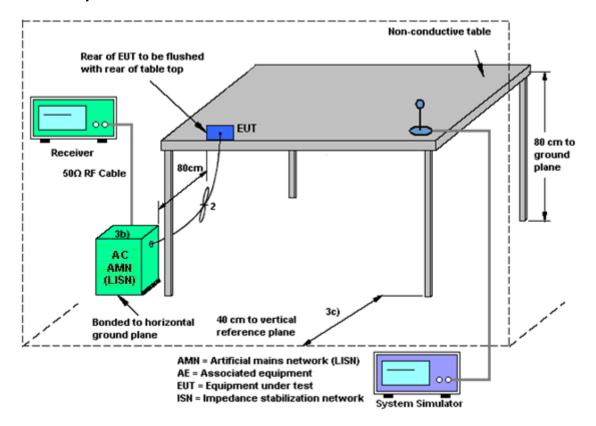
3.6.3 Test Procedures

- 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.

Sporton International Inc. (ShenZhen) Page Number TEL: +86-755-8637-9589 Report Issued Date: Jul. 04, 2024

FAX: +86-755-8637-9595 Report Version : Rev. 01 FCC ID: V5PIM254GBW Report Template No.: BU5-FR15CBT4.0 Version 2.0

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 41 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

Report Template No.: BU5-FR15CBT4.0 Version 2.0

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.

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 42 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report Template No.: BU5-FR15CBT4.0 Version 2.0

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Jun. 12, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 29, 2023	Jun. 12, 2024	Dec. 28, 2024	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Aug. 21, 2023	Jun. 12, 2024	Aug. 20, 2024	Conducted (TH01-SZ)
Thermo meter	Anymetre	JR593	#7	- 10℃ ~ 50℃ 10%RH~99%R H	Apr. 09, 2024	Jun. 12, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY522601 85	20Hz~26.5GHz	Dec. 27, 2023	Jun. 13, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY551502 13	10Hz~44GHz	Jul. 07, 2023	Jun. 13, 2024	Jul. 06, 2024	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Jun. 13, 2024	Jul. 27, 2024	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Jun. 13, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 08, 2023	Jun. 13, 2024	Jul. 07, 2024	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09,2024	Jun. 13, 2024	Apr. 08,2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Jun. 13, 2024	Apr. 08,2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 18,2023	Jun. 13, 2024	Oct. 17,2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY532701 05	0.5GHz~26.5Gh z	Oct. 18,2023	Jun. 13, 2024	Oct. 17,2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz	Jul. 07, 2023	Jun. 13, 2024	Jul. 06, 2024	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001 985	N/A	Oct. 18,2023	Jun. 13, 2024	Oct. 17,2024	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 13, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 13, 2024	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 06, 2023	Jun. 19, 2024	Jul. 05, 2024	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	Jun. 19, 2024	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	Jun. 19, 2024	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Jul. 07, 2023	Jun. 19, 2024	Jul. 06, 2024	Conduction (CO01-SZ)

NCR: No Calibration Required

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number : 43 of 44
Report Issued Date : Jul. 04, 2024
Report Version : Rev. 01

Report No.: FR452701B

Report Template No.: BU5-FR15CBT4.0 Version 2.0

5 Measurement Uncertainty

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.

Report No.: FR452701B

Uncertainty of Conducted Measurement

Test Item	Uncertainty				
Conducted Spurious Emission & Bandedge	±1.34 dB				
Occupied Channel Bandwidth	±0.012 MHz				
Conducted Power	±1.34 dB				
Conducted Power Spectral Density	±1.32 dB				
Frequency	±1.3 Hz				

<u>Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of Confidence	2.5 dB
of 95% (U = 2Uc(y))	2.5 uB

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.8 dB
of 95% (U = 2Uc(y))	2.0 UB

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

Measuring Uncertainty for a Level of Confidence	4.0 -40
of 95% (U = 2Uc(y))	4.2 dB

<u>Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)</u>

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

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence	4.3 dB
of 95% (U = 2Uc(y))	4.5 db

----- THE END -----

 Sporton International Inc. (ShenZhen)
 Page Number
 : 44 of 44

 TEL: +86-755-8637-9589
 Report Issued Date
 : Jul. 04, 2024

 FAX: +86-755-8637-9595
 Report Version
 : Rev. 01

FCC ID: V5PIM254GBW Report Template No.: BU5-FR15CBT4.0 Version 2.0

Appendix A. Conducted Test Results

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: V5PIM254GBW Page Number

: A1 of A1

Report Number : FR452701B

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Wen Shiwei	Temperature:	21~25	°C
Test Date:	2024/6/12	Relative Humidity:	51~54	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	1Mbps	1	0	2402	1.047	0.678	0.50	Pass
BLE	1Mbps	1	19	2440	1.049	0.672	0.50	Pass
BLE	1Mbps	1	39	2480	1.049	0.674	0.50	Pass

TEST RESULTS DATA Peak Power Table

Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	Peak Conducte d Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	3.36	30.00	-1.83	1.53	36.00	Pass
BLE	1Mbps	1	19	2440	3.03	30.00	-1.83	1.20	36.00	Pass
BLE	1Mbps	1	39	2480	2.11	30.00	-1.83	0.28	36.00	Pass

TEST RESULTS DATA Average Power Table

Mod.	Data Rate	N TX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	Power Setting	Conducte d Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	0.68	3.07	Default	30.00	-1.83	1.24	36.00	Pass
BLE	1Mbps	1	19	2440	0.68	2.78	Default	30.00	-1.83	0.95	36.00	Pass
BLE	1Mbps	1	39	2480	0.68	1.74	Default	30.00	-1.83	-0.09	36.00	Pass

TEST RESULTS DATA Peak Power Density

Mod.	Data Rate	N⊤×	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	3.23	-12.54	-1.83	8.00	Pass
BLE	1Mbps	1	19	2440	2.78	-12.97	-1.83	8.00	Pass
BLE	1Mbps	1	39	2480	1.87	-14.41	-1.83	8.00	Pass

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

Report Number : FR452701B

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	2402	2.070	1.120	0.50	Pass
BLE	2Mbps	1	19	2440	2.070	1.112	0.50	Pass
BLE	2Mbps	1	39	2480	2.070	1.116	0.50	Pass

TEST RESULTS DATA Peak Power Table

Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	Peak Conducte d Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	2Mbps	1	0	2402	3.35	30.00	-1.83	1.52	36.00	Pass
BLE	2Mbps	1	19	2440	3.02	30.00	-1.83	1.19	36.00	Pass
BLE	2Mbps	1	39	2480	2.10	30.00	-1.83	0.27	36.00	Pass

TEST RESULTS DATA Average Power Table

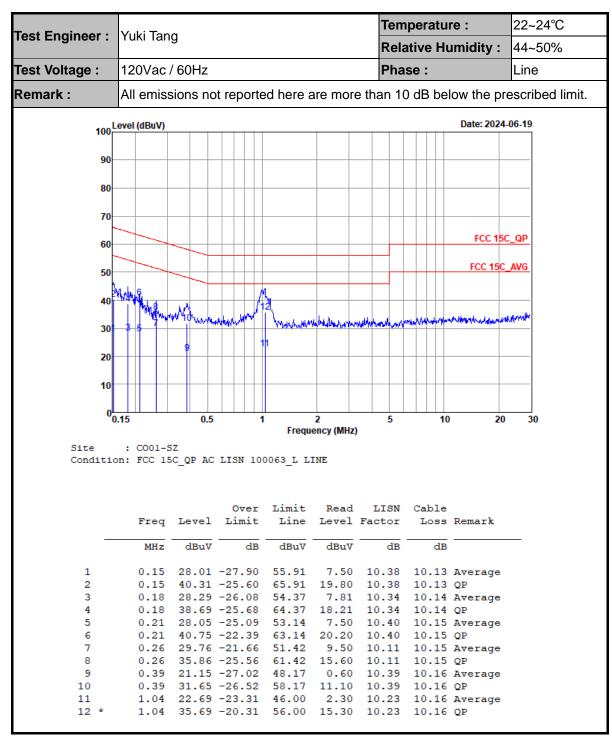
Mod.	Data Rate	N TX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	Power Setting	Conducte d Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	2Mbps	1	0	2402	2.37	3.04	Default	30.00	-1.83	1.21	36.00	Pass
BLE	2Mbps	1	19	2440	2.37	2.75	Default	30.00	-1.83	0.92	36.00	Pass
BLE	2Mbps	1	39	2480	2.37	1.71	Default	30.00	-1.83	-0.12	36.00	Pass

TEST RESULTS DATA Peak Power Density

Mod.	Data Rate	N⊤x	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	2.47	-13.30	-1.83	8.00	Pass
BLE	2Mbps	1	19	2440	2.09	-13.82	-1.83	8.00	Pass
BLE	2Mbps	1	39	2480	1.19	-14.63	-1.83	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



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Taat Engineer	Visiti Ton					Tem	peratu	re:	22~24°C	
Test Engineer :	Yuki Tan	g				Rela	ative Hu	ımidity :	44~50%	
Test Voltage :	120Vac	/ 60Hz				Pha	se :		Neutral	
Remark :	All emiss	sions no	t reporte	d here a	are more	a than 10	an 10 dB below the prescribed limit.			
Ciliai K .	All Cirilo	310113 110	тороно	,a nore e		- than it	db bc	OW the pro	23011DCG IIITIIL.	
	Level (dBuV)							Date: 2024-	06-19	
100										
90										
80										
70										
60								FCC 150	_QP	
50								FCC 15C	AVG	
	lum the s			1.						
40	1 741	1. A	T A	<u>a</u>						
20) Magala	haray Julyana	porphy adaptive and	Marchanter	William Company	de a philippe and a p	are all populations	rder, of payols a speed	Hondidally	
30		Ĭ		1	1					
20		9		•						
10										
0	0.15	0.5	1		2	5	10	20	30	
				Frequ	ency (MHz))				
Site	: CO01-5 on: FCC 15		TIEN 100	0062 N NI	TITEDAT					
Condition	on. rcc is	C_QF AC	LISM 100	0063_N N	COIRAL					
			Over	Limit	Read	T.TOM	Cable			
						TITOM	Cabie			
	Freq	Level	Limit	Line	Level	Factor		Remark		
_						Factor	Loss	Remark		
_	Freq	dBuV	Limit ———————————————————————————————————	dBuV	Level dBuV			Remark	_	
1	MHz	dBuV		dBuV	dBuV	Factor dB	Loss	Remark		
2	MHz 0.15 0.15	dBuV 29.01 40.61	dB -26.86 -25.26	dBuV 55.87 65.87	dBuV 8.70 20.30	Tactor dB 10.18 10.18	dB 10.13 10.13	Average QP	_	
2 3	MHz 0.15 0.15 0.19	dBuV 29.01 40.61 28.57	dB -26.86 -25.26 -25.36	dBuV 55.87 65.87 53.93	dBuV 8.70 20.30 8.09	Tactor dB 10.18 10.18 10.33	dB 10.13 10.13 10.15	Average QP Average	_	
2 3 4	MHz 0.15 0.15 0.19 0.19	dBuV 29.01 40.61 28.57 38.17	dB -26.86 -25.26 -25.36 -25.76	dBuV 55.87 65.87 53.93 63.93	dBuV 8.70 20.30 8.09 17.69	Tactor dB 10.18 10.18 10.33 10.33	dB 10.13 10.13 10.15 10.15	Average QP Average QP	_	
2 3 4 5	MHz 0.15 0.15 0.19 0.19	dBuV 29.01 40.61 28.57 38.17 28.56	-26.86 -25.26 -25.36 -25.76 -24.14	dBuV 55.87 65.87 53.93 63.93 52.70	dBuV 8.70 20.30 8.09 17.69 8.20	Tactor dB 10.18 10.18 10.33 10.33 10.21	dB 10.13 10.13 10.15 10.15	Average QP Average QP Average	_	
2 3 4	MHz 0.15 0.15 0.19 0.19 0.22 0.22	dBuV 29.01 40.61 28.57 38.17 28.56 39.36	dB -26.86 -25.26 -25.36 -25.76 -24.14 -23.34	dBuV 55.87 65.87 53.93 63.93 52.70 62.70	dBuV 8.70 20.30 8.09 17.69 8.20 19.00	Tactor dB 10.18 10.18 10.33 10.33 10.21	dB 10.13 10.13 10.15 10.15 10.15	Average QP Average QP Average	_	
2 3 4 5 6	MHz 0.15 0.15 0.19 0.19 0.22 0.22 0.27 0.27	dBuV 29.01 40.61 28.57 38.17 28.56 39.36 30.63 34.93	dB -26.86 -25.26 -25.36 -25.76 -24.14 -23.34 -20.57 -26.27	dBuV 55.87 65.87 53.93 63.93 52.70 62.70 51.20 61.20	dBuV 8.70 20.30 8.09 17.69 8.20 19.00 10.21 14.51	dB 10.18 10.18 10.33 10.33 10.21 10.21 10.27 10.27	dB 10.13 10.13 10.15 10.15 10.15 10.15 10.15 10.15	Average QP Average QP Average QP Average QP		
2 3 4 5 6 7 8 9	MHz 0.15 0.15 0.19 0.19 0.22 0.22 0.27 0.27 0.38	dBuV 29.01 40.61 28.57 38.17 28.56 39.36 30.63 34.93 19.64	dB -26.86 -25.26 -25.36 -25.76 -24.14 -23.34 -20.57 -26.27 -28.66	dBuV 55.87 65.87 53.93 63.93 52.70 62.70 51.20 61.20 48.30	dBuV 8.70 20.30 8.09 17.69 8.20 19.00 10.21 14.51 -0.60	dB 10.18 10.18 10.33 10.33 10.21 10.21 10.27 10.27 10.08	dB 10.13 10.13 10.15 10.15 10.15 10.15 10.15 10.15	Average QP Average QP Average QP Average QP Average	_	
2 3 4 5 6 7 8 9	MHz 0.15 0.15 0.19 0.22 0.22 0.27 0.27 0.38 0.38	dBuV 29.01 40.61 28.57 38.17 28.56 39.36 30.63 34.93 19.64 28.54	dB -26.86 -25.26 -25.36 -25.76 -24.14 -23.34 -20.57 -26.27 -28.66 -29.76	dBuV 55.87 65.87 53.93 63.93 52.70 62.70 51.20 61.20 48.30 58.30	dBuV 8.70 20.30 8.09 17.69 8.20 19.00 10.21 14.51 -0.60 8.30	Tactor dB 10.18 10.33 10.33 10.21 10.21 10.27 10.27 10.08 10.08	dB 10.13 10.15 10.15 10.15 10.15 10.15 10.16 10.16	Average QP Average QP Average QP Average QP Average QP		
2 3 4 5 6 7 8 9	MHz 0.15 0.15 0.19 0.19 0.22 0.27 0.27 0.38 0.38 1.04	dBuV 29.01 40.61 28.57 38.17 28.56 30.63 34.93 19.64 28.54 22.68	dB -26.86 -25.26 -25.36 -25.76 -24.14 -23.34 -20.57 -26.27 -28.66 -29.76	dBuV 55.87 65.87 53.93 63.93 52.70 62.70 51.20 61.20 48.30 58.30 46.00	dBuV 8.70 20.30 8.09 17.69 8.20 19.00 10.21 14.51 -0.60 8.30 2.30	Tactor dB 10.18 10.33 10.33 10.21 10.27 10.27 10.08 10.08 10.22	dB 10.13 10.15 10.15 10.15 10.15 10.15 10.16 10.16	Average QP Average QP Average QP Average QP Average QP Average QP Average		

Note:

- 1. Level(dB μ V) = Read Level(dB μ V) + LISN Factor(dB) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB μ V) Limit Line(dB μ V)

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Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Zhaohui Liang	Relative Humidity :	48-49%
rest Engineer.	Zhaonui Liang	Temperature :	24-25 ℃

Report No.: FR452701B

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	SISO	Bluetooth-LE	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	SISO	Bluetooth-LE	19	2440	1Mbps	-	-
Mode 3	2400-2483.5	SISO	Bluetooth-LE	39	2480	1Mbps	-	-
Mode 4	2400-2483.5	SISO	Bluetooth-LE	00	2402	2Mbps	-	-
Mode 5	2400-2483.5	SISO	Bluetooth-LE	39	2480	2Mbps	-	-
Mode 6	2400-2483.5	SISO	Bluetooth-LF	39	2480	1Mbps	-	LF

Co-location

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 7	CO-TX	SISO	Bluetooth-LE	39	2480	1Mbps	1	-
iviode /	LTE Band 48	1	LTE B13	-	-	-	-	-

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth-LE	00	2385.92	38.63	54.00	-15.37	Н	AVERAGE	Pass	Band Edge
'	Bluetooth-LE	00	4804.00	46.66	74.00	-27.34	Н	Peak	Pass	Harmonic
2	Bluetooth-LE	19	-	-	-	-	-	-	-	Band Edge
	Bluetooth-LE	19	7320.00	47.13	74.00	-26.87	V	Peak	Pass	Harmonic
3	Bluetooth-LE	39	2499.60	39.48	54.00	-14.52	V	AVERAGE	Pass	Band Edge
3	Bluetooth-LE	39	7440.00	47.76	74.00	-26.24	V	Peak	Pass	Harmonic
4	Bluetooth-LE	00	2317.35	38.64	54.00	-15.36	V	AVERAGE	Pass	Band Edge
4	Bluetooth-LE	00	-	-	-	-	-	-	-	Harmonic
5	Bluetooth-LE	39	2498.76	39.42	54.00	-14.58	V	AVERAGE	Pass	Band Edge
5	Bluetooth-LE	39	-	-	-	-	-	-	-	Harmonic
6	Bluetooth-LF	39	34.85	27.65	40.00	-12.35	V	Peak	Pass	LF

Co-location

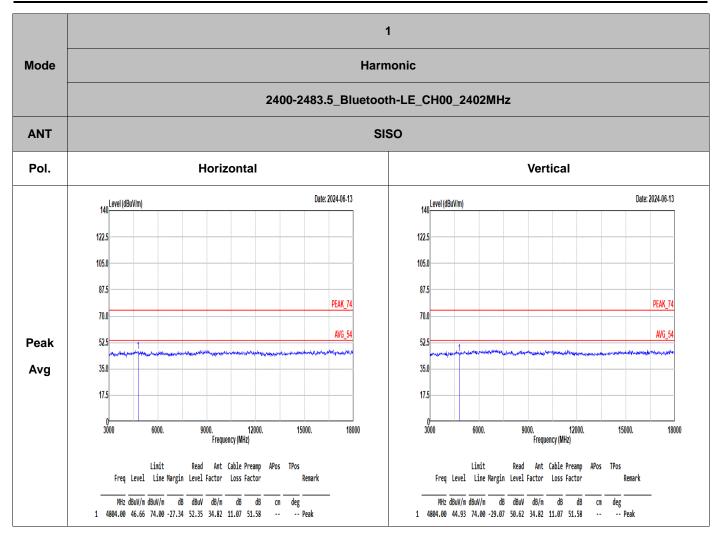
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
7	Bluetooth-LE	39	2496.14	39.14	54.00	-14.86	V	AVERAGE	Pass	Band Edge
'	Bluetooth-LE	39	2346.75	49.83	74.00	-24.17	V	Peak	Pass	Harmonic

Sporton International Inc. (ShenZhen) Page Number : C1 of C16

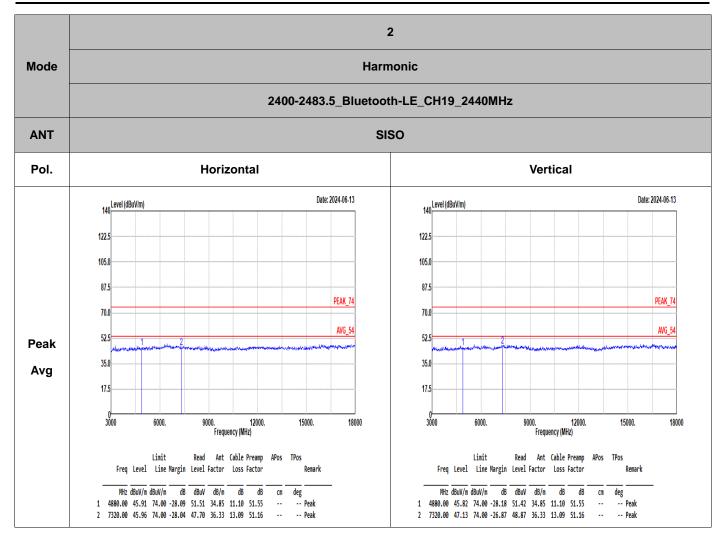
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Band Edge Mode 2400-2483.5_Bluetooth-LE_CH00_2402MHz **ANT** SISO Pol. Horizontal **Fundamental** 140 Level (dBuV/m) Date: 2024-06-13 140 Level (dBuV/m) Date: 2024-06-13 122.5 122.5 105.0 105.0 87.5 PEAK 74 70.0 52.5 52.5 Peak 35.0 17.5 17.5 1000 2310 2352. Frequency (MHz) v. 2200. Frequency (MHz) 2331. 2394. 2415 1400. 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor Remark dBuV dB/m dB dB cm deg MHz dBuV/m dBuV/m MHz dBuV/m dBuV/m dBuV dB/m dB dB 1 2375.63 48.69 74.00 -25.31 40.81 32.23 7.72 32.07 339 127 PEAK 1 2402.00 92.29 ----- 84.30 32.28 7.79 32.08 339 127 PEAK Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 87.5 87.5 70.0 70.0 52.5 52.5 Avg 35.0 17.5 17.5 0<u>-</u> 2310 1000 2331. 2352. 2373. Frequency (MHz) 1400. 0. 2200. Frequency (MHz) 2394. 2415 1800. 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor dBuV dB/m dB dB MHz dBuV/m dBuV/m dBuV dB/m dB dB MHz dBuV/m dBuV/m cm deg 1 2385.92 38.63 54.00 -15.37 30.71 32.25 7.75 32.08 339 127 AVERAGE 1 2402.00 91.03 ----- 83.04 32.28 7.79 32.08 339 127 AVERAGE

Band Edge Mode 2400-2483.5_Bluetooth-LE_CH00_2402MHz **ANT** SISO Pol. Vertical **Fundamental** 140 Level (dBuV/m) Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 PEAK 74 70.0 52.5 52.5 Peak 35.0 17.5 17.5 1000 2310 J. 2200. Frequency (MHz) 2331. 2352. 2373. Frequency (MHz) 2394. 2415 1400. 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor Remark dBuV dB/m dB dB cm deg MHz dBuV/m dBuV/m MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2333.94 48.91 74.00 -25.09 41.25 32.13 7.60 32.07 382 287 PEAK 1 2402.00 90.86 ----- 82.87 32.28 7.79 32.08 Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 87.5 87.5 70.0 70.0 52.5 52.5 Avg 35.0 35.0 17.5 17.5 0<u>-</u> 2310 1000 2331. 2352. 2373. Frequency (MHz) 1400. 0. 2200. Frequency (MHz) 2394. 2415 1800. 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor dBuV dB/m dB dB MHz dBuV/m dBuV/m dBuV dB/m dB dB MHz dBuV/m dBuV/m cm deg 1 2384.87 38.45 54.00 -15.55 30.53 32.25 7.75 32.08 382 287 AVERAGE 1 2402.00 89.72 ----- 81.73 32.28 7.79 32.08 382 287 AVERAGE



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3 **Band Edge** Mode 2400-2483.5_Bluetooth-LE_CH39_2480MHz **ANT** SISO Pol. Horizontal **Fundamental** 140 Level (dBuV/m) Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 87.5 PEAK_BE_74 PEAK 74 70.0 52.5 52.5 Peak 35.0 17.5 17.5 0 2480 1000 o. 2492. Frequency (MHz) v. 2200. Frequency (MHz) 2484. 2496. 2500 1400. 2600. 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm MHz dBuV/m dBuV/m dBuV dB/m dB dB 1 2498.92 49.85 74.00 -24.15 41.56 32.50 7.89 32.10 374 44 PEAK 1 2480.00 91.35 ----- 83.12 32.46 7.87 32.10 Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 87.5 87.5 70.0 70.0 52.5 52.5 Avg 35.0 35.0 17.5 17.5 0 2480 1000 2488. 2492. Frequency (MHz) 1400. 0. 2200. Frequency (MHz) 2484. 2496. 2500 1800. 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor dBuV dB/m dB dB MHz dBuV/m dBuV/m dBuV dB/m dB dB MHz dBuV/m dBuV/m deg deg 1 2483.68 39.13 54.00 -14.87 30.89 32.46 7.88 32.10 374 44 AVERAGE 1 2480.00 90.06 ----- 81.83 32.46 7.87 32.10 374 44 AVERAGE

3 **Band Edge** Mode 2400-2483.5_Bluetooth-LE_CH39_2480MHz **ANT** SISO Pol. Vertical **Fundamental** 140 Level (dBuV/m) Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 PEAK_BE_74 PEAK 74 70.0 52.5 52.5 Peak 35.0 17.5 17.5 0 2480 1000 o. 2492. Frequency (MHz) J. 2200. Frequency (MHz) 2484. 2496. 2500 1400. 2600. 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor dBuV dB/m dB dB cm deg MHz dBuV/m dBuV/m MHz dBuV/m dBuV/m dBuV dB/m dB dB 1 2497.88 51.23 74.00 -22.77 42.94 32.50 7.89 32.10 397 305 PEAK 1 2480.00 86.00 ----- 77.77 32.46 7.87 32.10 Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 87.5 87.5 70.0 70.0 52.5 52.5 Avg 35.0 17.5 17.5 0 2480 1000 2484. 2488. 2492. Frequency (MHz) 1400. 0. 2200. Frequency (MHz) 2496. 1800. 2600. 3000 2500 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor dBuV dB/m dB dB MHz dBuV/m dBuV/m dBuV dB/m dB dB MHz dBuV/m dBuV/m cm deg deg 1 2499.60 39.48 54.00 -14.52 31.19 32.50 7.89 32.10 397 305 AVERAGE 1 2480.00 84.76 ----- 76.53 32.46 7.87 32.10 397 305 AVERAGE

3 Mode Harmonic 2400-2483.5_Bluetooth-LE_CH39_2480MHz SISO **ANT** Pol. Horizontal Vertical Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 87.5 87.5 PEAK_74 PEAK_74 70.0 52.5 52.5 **Peak** 35.0 35.0 Avg 17.5 17.5 0<u></u> 3000 0 3000 21400. 26000 21400. 26000 Frequency (MHz) Frequency (MHz) Limit Read Ant Cable Preamp APos Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark Freq Level Line Margin Level Factor Loss Factor MHz dBuV/m dBuV/m dB dBuV dB/m dB dB MHz dBuV/m dBuV/m dB dBuV dB/m dB deg 1 4960.00 46.20 74.00 -27.80 51.69 34.88 11.14 51.51 1 4960.00 45.28 74.00 -28.72 50.77 34.88 11.14 51.51 2 7440.00 46.44 74.00 -27.56 48.28 36.38 12.97 51.19 2 7440.00 47.76 74.00 -26.24 49.60 36.38 12.97 51.19

Note: Only the worst case has assessed 18G ~26GHz to test.

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Band Edge Mode 2400-2483.5_Bluetooth-LE_CH00_2402MHz **ANT** SISO Pol. Horizontal **Fundamental** 140 Level (dBuV/m) Date: 2024-06-13 140 Level (dBuV/m) Date: 2024-06-13 122.5 122.5 105.0 105.0 87.5 PEAK 74 70.0 52.5 52.5 Peak 35.0 17.5 17.5 1000 2310 u. 2200. Frequency (MHz) 2331. 2352. 2373. Frequency (MHz) 2394. 2415 1400. 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor dBuV dB/m dB dB cm deg MHz dBuV/m dBuV/m MHz dBuV/m dBuV/m dBuV dB/m dB dB 1 2386.65 49.07 74.00 -24.93 41.15 32.25 7.75 32.08 339 124 PEAK 1 2402.00 92.34 ----- 84.35 32.28 7.79 32.08 339 Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 87.5 87.5 70.0 70.0 52.5 52.5 Avg 35.0 35.0 17.5 17.5 0<u>-</u> 2310 1000 2331. 2352. 2373. Frequency (MHz) 1400. 0. 2200. Frequency (MHz) 2394. 2415 1800. 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor dBuV dB/m dB dB MHz dBuV/m dBuV/m dBuV dB/m dB dB MHz dBuV/m dBuV/m cm deg 1 2373.21 38.48 54.00 -15.52 30.62 32.22 7.71 32.07 339 124 AVERAGE 1 2402.00 87.69 ----- 79.70 32.28 7.79 32.08 339 124 AVERAGE

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Band Edge Mode 2400-2483.5_Bluetooth-LE_CH00_2402MHz **ANT** SISO Pol. Vertical **Fundamental** 140 Level (dBuV/m) Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 PEAK 74 52.5 52.5 Peak 35.0 17.5 17.5 1000 2310 2331. 2352. 2373. Frequency (MHz) 2394. 2415 1400. 0. 2200. Frequency (MHz) 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor dBuV dB/m dB dB cm deg MHz dBuV/m dBuV/m MHz dBuV/m dBuV/m dBuV dB/m dB dB 1 2322.39 48.89 74.00 -25.11 41.27 32.11 7.57 32.06 384 291 PEAK 1 2402.00 89.87 ----- 81.88 32.28 7.79 32.08 Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 87.5 87.5 70.0 70.0 52.5 52.5 Avg 35.0 17.5 17.5 0<u>-</u> 2310 1000 2331. 2352. 2373. Frequency (MHz) 1400. 0. 2200. Frequency (MHz) 2394. 2415 1800. 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor dBuV dB/m dB dB MHz dBuV/m dBuV/m dBuV dB/m dB dB MHz dBuV/m dBuV/m cm deg 1 2317.35 38.64 54.00 -15.36 31.04 32.10 7.56 32.06 384 291 AVERAGE 1 2402.00 84.93 ----- 76.94 32.28 7.79 32.08 384 291 AVERAGE

5 **Band Edge** Mode 2400-2483.5_Bluetooth-LE_CH39_2480MHz **ANT** SISO Pol. Horizontal **Fundamental** 140 Level (dBuV/m) Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 87.5 PEAK_BE_74 PEAK 74 70.0 52.5 52.5 Peak 35.0 35.0 17.5 17.5 0 2480 1000 o. 2492. Frequency (MHz) v. 2200. Frequency (MHz) 2484. 2496. 2500 1400. 2600. 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm MHz dBuV/m dBuV/m dBuV dB/m dB dB 1 2483.76 49.42 74.00 -24.58 41.18 32.46 7.88 32.10 374 45 PEAK 1 2480.00 91.27 ----- 83.04 32.46 7.87 32.10 374 Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 87.5 87.5 70.0 70.0 52.5 52.5 Avg 35.0 35.0 17.5 17.5 0 2480 1000 2488. 2492. Frequency (MHz) 1400. 0. 2200. Frequency (MHz) 2484. 2496. 2500 1800. 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor dBuV dB/m dB dB MHz dBuV/m dBuV/m dBuV dB/m dB dB MHz dBuV/m dBuV/m cm deg 1 2483.52 39.17 54.00 -14.83 30.93 32.46 7.88 32.10 374 45 AVERAGE 1 2480.00 86.76 ----- 78.53 32.46 7.87 32.10 374 45 AVERAGE

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5 **Band Edge** Mode 2400-2483.5_Bluetooth-LE_CH39_2480MHz **ANT** SISO Pol. Vertical **Fundamental** 140 Level (dBuV/m) Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 PEAK_BE_74 PEAK 74 70.0 52.5 52.5 Peak 35.0 17.5 17.5 0 2480 1000 o. 2492. Frequency (MHz) v. 2200. Frequency (MHz) 2484. 2496. 2500 1400. 2600. 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor dBuV dB/m dB dB cm MHz dBuV/m dBuV/m MHz dBuV/m dBuV/m dBuV dB/m dB dB 1 2497.44 50.59 74.00 -23.41 42.31 32.49 7.89 32.10 397 1 2480.00 86.36 ----- 78.13 32.46 7.87 32.10 Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 87.5 87.5 70.0 70.0 52.5 52.5 Avg 35.0 17.5 17.5 0 2480 1000 2484. 2488. 2492. Frequency (MHz) 1400. 0. 2200. Frequency (MHz) 2496. 1800. 2600. 3000 2500 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor dBuV dB/m dB dB MHz dBuV/m dBuV/m dBuV dB/m dB dB MHz dBuV/m dBuV/m deg deg 1 2498.76 39.42 54.00 -14.58 31.13 32.50 7.89 32.10 397 304 AVERAGE 1 2480.00 81.88 ----- 73.65 32.46 7.87 32.10 397 304 AVERAGE

Page Number

: C12 of C16

6 Mode LF 2400-2483.5_Bluetooth-LF_CH39_2480MHz SISO **ANT** Pol. Horizontal Vertical Date: 2024-06-13 Date: 2024-06-13 80 Level (dBuV/m) 80 Level (dBuV/m) FCC CLASS-B FCC CLASS-B 70.0 70.0 60.0 60.0 50.0 50.0 Peak 418. Frequency (MHz) 418. Frequency (MHz) 612. 806. 1000 224. 806. 1000 Limit Ant Cable Preamp Limit Read Ant Cable Preamp Freq Level Line Margin Level Factor Loss Factor Freq Level Line Margin Level Factor Loss Factor Remark Remark MHz dBuV/m dBuV/m dB dBuV dB/m deg MHz dBuV/m dBuV/m dB dBuV dB/m deg 34.85 27.65 40.00 -12.35 35.46 22.30 1.09 31.20 71.71 27.20 40.00 -12.80 44.34 12.65 1.55 31.34 82.38 19.50 40.00 -20.50 35.57 13.66 1.65 31.38 129.91 23.93 43.50 -19.57 35.00 18.00 2.07 31.14 -- Peak -- Peak -- Peak -- Peak -- Peak 216.24 26.28 46.00 -19.72 39.14 15.38 132.82 22.36 43.50 -21.14 33.58 17.82 2.09 31.13 -- Peak -- Peak 299.66 28.46 46.00 -17.54 36.84 19.40 3.12 30.90 399.57 30.78 46.00 -15.22 35.98 21.90 3.60 30.70 -- Peak 267.65 21.43 46.00 -24.57 29.82 19.56 2.95 30.90 334.58 22.63 46.00 -23.37 30.01 20.16 3.29 30.83 -- Peak 847.71 29.63 46.00 -16.37 28.98 26.48 5.22 31.05 495.60 24.27 46.00 -21.73 27.33 23.63 4.01 30.70

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7 **Band Edge** Mode 2400-2483.5_Bluetooth-LE_CH39_2480MHz+ LTE B13 Link **ANT** SISO Pol. Horizontal **Fundamental** 140 Level (dBuV/m) Date: 2024-06-13 140 Level (dBuV/m) Date: 2024-06-13 122.5 122.5 105.0 105.0 87.5 PEAK_BE_74 PEAK 74 70.0 52.5 52.5 Peak 35.0 17.5 17.5 0 2480 1000 o. 2492. Frequency (MHz) u. 2200. Frequency (MHz) 2484. 2496. 2500 1400. 2600. 3000 Limit Limit Read Ant Cable Preamp APos TPos Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB MHz dBuV/m dBuV/m dB dBuV dB/m dB dB 1 2486.52 49.93 74.00 -24.07 41.68 32.47 7.88 32.10 54 PEAK 1 2480.00 89.54 ----- 81.31 32.46 7.87 32.10 Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 87.5 87.5 70.0 70.0 AVG_BE_54 52.5 52.5 Avg 35.0 35.0 17.5 17.5 0 2480 1000 B. 2492. Frequency (MHz) 1400. 0. 2200. Frequency (MHz) 2484. 2496. 2500 2600. 3000 Read Ant Cable Preamp APos TPos Limit Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Freq Level Line Margin Level Factor Loss Factor MHz dBuV/m dBuV/m dB dBuV dB/m dB MHz dBuV/m dBuV/m dB dBuV dB/m dB deg dB dB deg 1 2484.06 39.02 54.00 -14.98 30.78 32.46 7.88 32.10 366 54 AVERAGE 1 2480.00 88.47 ----- 80.24 32.46 7.87 32.10 366 54 AVERAGE

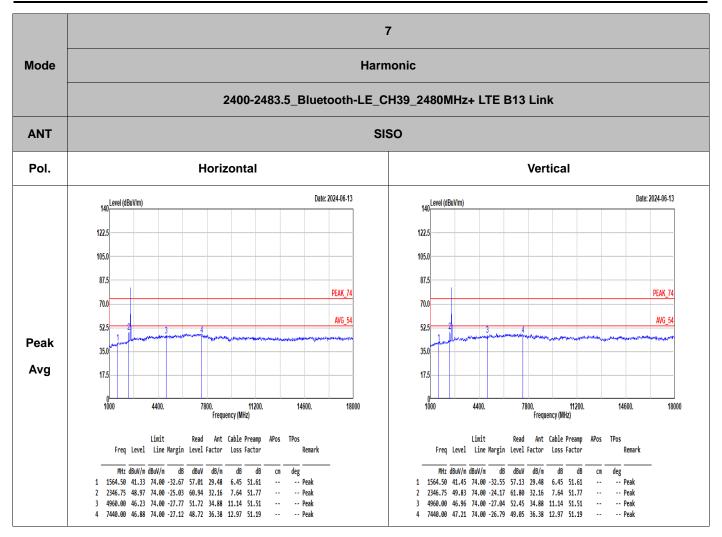
Page Number

: C14 of C16

7 **Band Edge** Mode 2400-2483.5_Bluetooth-LE_CH39_2480MHz+ LTE B13 Link **ANT** SISO Pol. Vertical **Fundamental** 140 Level (dBuV/m) Date: 2024-06-13 140 Level (dBuV/m) Date: 2024-06-13 122.5 122.5 105.0 105.0 87.5 PEAK_BE_74 PEAK 74 70.0 52.5 52.5 Peak 35.0 17.5 17.5 0 2480 1000 o. 2492. Frequency (MHz) v. 2200. Frequency (MHz) 2484. 2496. 2500 1400. 2600. 3000 Limit Limit Read Ant Cable Preamp APos TPos Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 2493.70 50.08 74.00 -23.92 41.80 32.49 7.89 32.10 390 1 2480.00 85.08 ----- 76.85 32.46 7.87 32.10 Date: 2024-06-13 Date: 2024-06-13 140 Level (dBuV/m) 140 Level (dBuV/m) 122.5 122.5 105.0 105.0 87.5 87.5 70.0 70.0 AVG_BE_54 52.5 52.5 Avg 35.0 35.0 17.5 17.5 0 2480 1000 2484. B. 2492. Frequency (MHz) 1400. 0. 2200. Frequency (MHz) 2496. 2500 1800. 2600. 3000 Read Ant Cable Preamp APos TPos Limit Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Freq Level Line Margin Level Factor Loss Factor MHz dBuV/m dBuV/m dB dBuV dB/m MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB deg dB deg 1 2496.14 39.14 54.00 -14.86 30.86 32.49 7.89 32.10 390 287 AVERAGE 1 2480.00 84.15 ----- 75.92 32.46 7.87 32.10 390 287 AVERAGE

Page Number

: C15 of C16



Report No.: FR452701B

Note: For all plots above, the over limit line signals are Fundamental signal which can be ignored.

Page Number

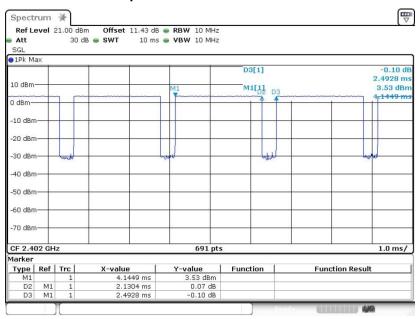
: C16 of C16

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Appendix D. Duty Cycle Plots

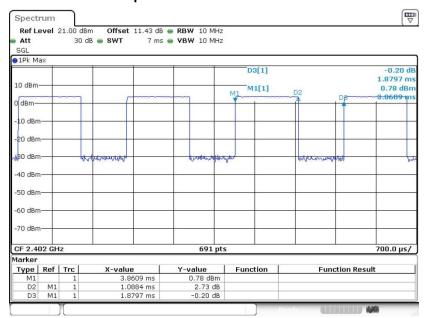
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Bluetooth LE 1Mbps	85.46	2.1304	0.469	1kHz
Bluetooth LE 2Mbps	57.90	1.0884	0.919	1kHz

Bluetooth - LE 1Mbps



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Bluetooth - LE 2Mbps



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