FCC RF Test Report

APPLICANT: vivo Mobile Communication Co., Ltd.

EQUIPMENT: Mobile Phone

BRAND NAME : vivo MODEL NAME : V2145

FCC ID : 2AUCY-V2145

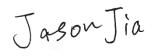
STANDARD : FCC Part 15 Subpart C §15.247

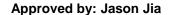
CLASSIFICATION : (DTS) Digital Transmission System

TEST DATE(S) : Mar. 12, 2022 ~ Apr. 08, 2022

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.









Report No.: FR212202B

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)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR212202B	Rev. 01	Initial issue of report	Apr. 26, 2022

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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)	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	≤ 30dBc	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 12.20 dB at 55.220 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 4.64 dB at 0.150 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.

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1 General Description

1.1 Applicant

vivo Mobile Communication Co., Ltd.

No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

1.2 Manufacturer

vivo Mobile Communication Co., Ltd.

No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Mobile Phone			
Brand Name	vivo			
Model Name V2145				
FCC ID	2AUCY-V2145			
	Conducted: 868488069970638			
IMEI Code	Conduction: 868488069969903			
	Radiation: 868488069969622/868488069969630			
HW Version	MP_0.1			
SW Version PD2185BF_EX_A_12.0.9.2.W30.V000L1				
EUT Stage	Production Unit			

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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-rel	ated 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	<pre><ant.0> Bluetooth LE 1Mbps: 8.60 dBm (0.0072 W) Bluetooth LE 2Mbps: 8.70 dBm (0.0074 W) <ant.1> Bluetooth LE 1Mbps: 9.20 dBm (0.0083 W) Bluetooth LE 2Mbps: 9.30 dBm (0.0085 W)</ant.1></ant.0></pre>
Antenna Type / Gain	<ant.0< a="">>PIFA Antenna type with gain -3.0 dBi <ant.1< a="">>PIFA Antenna type with gain -3.0 dBi</ant.1<></ant.0<>
Type of Modulation	Bluetooth LE : GFSK

Remark: Ant. 0/1 corresponds to ant. 24/23 in the EP report respectively.

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1.5 Modification of EUT

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

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.

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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							
Tool Oite No	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.					
Test Site 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 China 518103 TEL: +86-755-33202398			
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.	
	03CH03-SZ	CN1256	421272	

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-SZ	AUDIX	E3	6.120613b

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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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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	-	-

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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 (X 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
Test Item	Data Rate / Modulation
rest item	Bluetooth – LE / GFSK
Conducted	Mode 1: Bluetooth Tx CH00_2402 MHz
TCs	Mode 2: Bluetooth Tx CH19_2440 MHz
108	Mode 3: Bluetooth Tx CH39_2480 MHz
Dedicted	Mode 1: Bluetooth Tx CH00_2402 MHz
Radiated	Mode 2: Bluetooth Tx CH19_2440 MHz
TCs	Mode 3: Bluetooth Tx CH39_2480 MHz
AC	Made 1: CSM 950 Idle + Plustooth Link + W/LAN Link (2.4C) + USB Coble 1(Charging
Conducted	Mode 1: GSM 850 Idle + Bluetooth Link + WLAN Link (2.4G) + USB Cable 1(Charging
Emission	from Adapter1) + Battery 1

Remark: For Radiated Test Cases, The worst test cases were performed with Adapter1 and USB Cable1 for ANT1_2Mbps.

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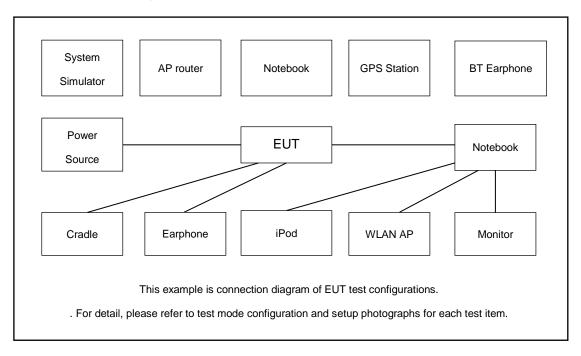
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2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station(LTE)	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
3.	NOTE BOOK	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A

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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 1.5 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 1.5 + 10 = 11.5 (dB) Report No.: FR212202B

3 Test Result

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB 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. Measure and record the results in the test report.

3.1.4 Test Setup



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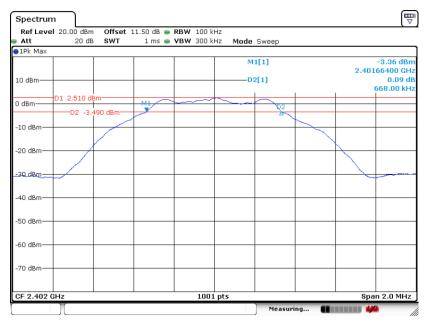
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3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

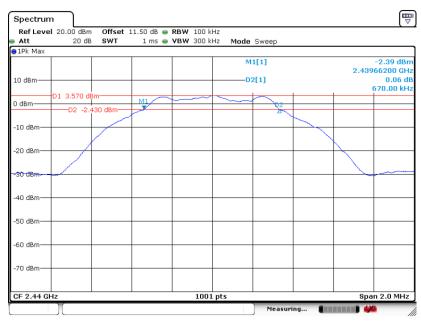
Bluetooth 1Mbps for Ant.0

6 dB Bandwidth Plot on Channel 00



Date: 24.MAR.2022 06:30:37

6 dB Bandwidth Plot on Channel 19



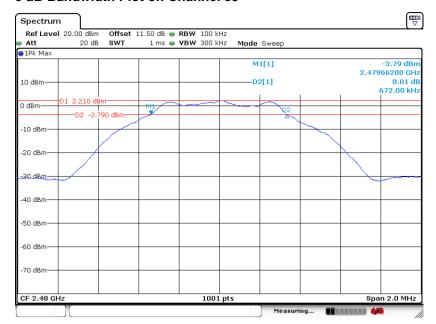
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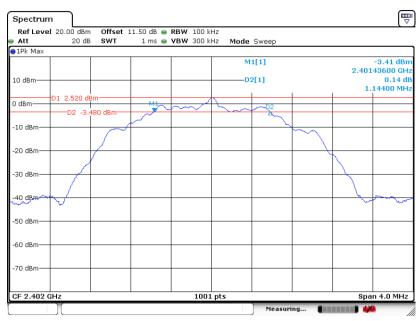
6 dB Bandwidth Plot on Channel 39



Date: 24.MAR.2022 06:41:06

Bluetooth 2Mbps for Ant.0

6 dB Bandwidth Plot on Channel 00



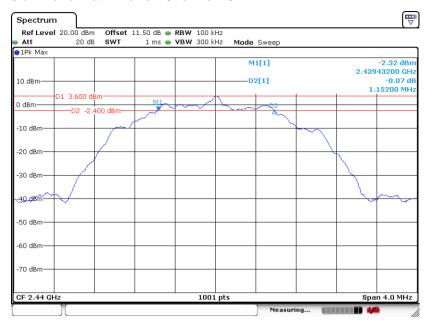
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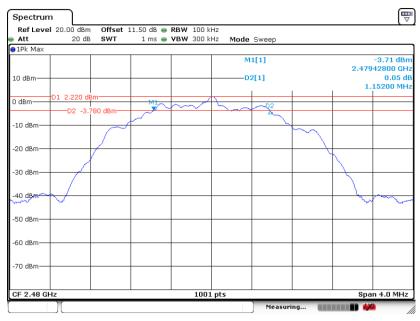
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6 dB Bandwidth Plot on Channel 19



Date: 24.MAR.2022 06:56:20

6 dB Bandwidth Plot on Channel 39



Date: 24.MAR.2022 07:24:26

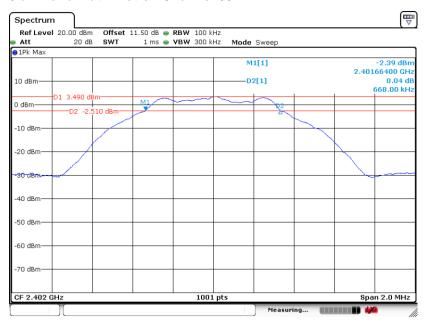
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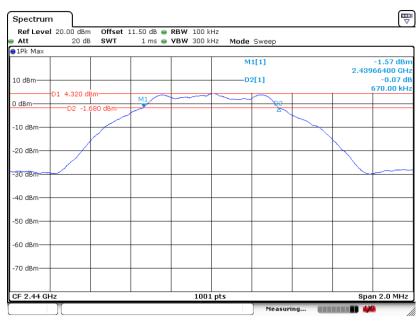
Bluetooth 1Mbps for Ant.1

6 dB Bandwidth Plot on Channel 00



Date: 24.MAR.2022 07:29:34

6 dB Bandwidth Plot on Channel 19



Date: 24.MAR.2022 07:32:51

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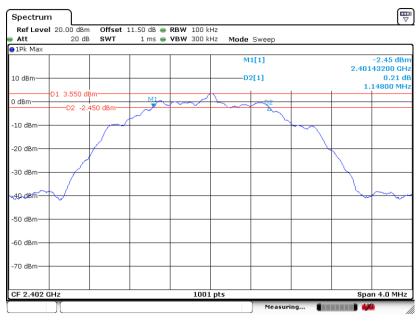
6 dB Bandwidth Plot on Channel 39



Date: 24.MAR.2022 07:35:38

Bluetooth 2Mbps for Ant.1

6 dB Bandwidth Plot on Channel 00



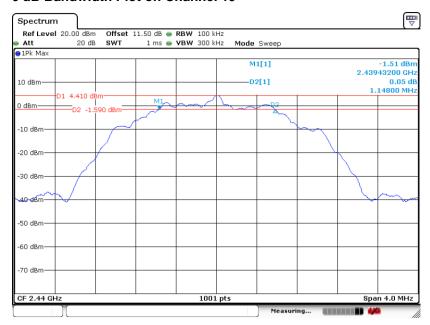
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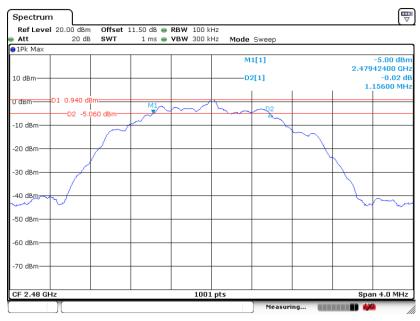
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6 dB Bandwidth Plot on Channel 19



Date: 24.MAR.2022 07:46:37

6 dB Bandwidth Plot on Channel 39



Date: 24.MAR.2022 07:48:26

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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 output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the 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.

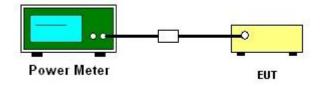
3.2.2 Measuring Instruments

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 11.9.2.3.1 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 Average Output Power

Please refer to Appendix A.

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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.

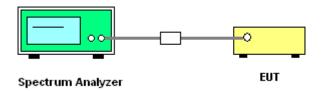
3.3.2 Measuring Instruments

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.
- 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.

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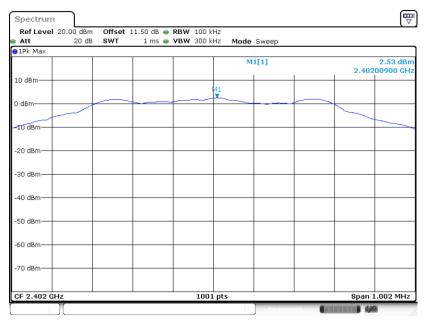
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3.3.6 Test Result of Power Spectral Density Plots (100kHz)

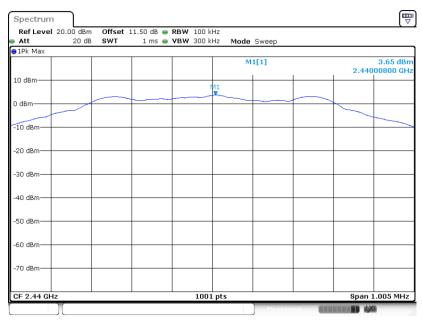
Bluetooth 1Mbps for Ant.0

PSD 100kHz Plot on Channel 00



Date: 24.MAR.2022 06:31:12

PSD 100kHz Plot on Channel 19



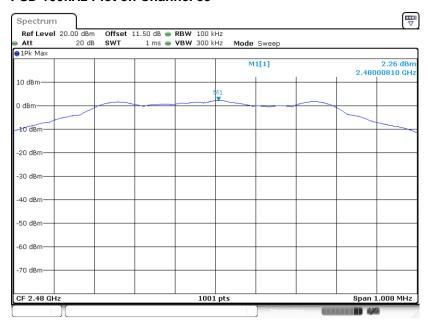
Date: 24.MAR.2022 06:38:05

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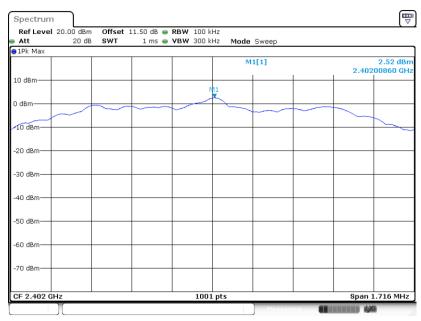
PSD 100kHz Plot on Channel 39



Date: 24.MAR.2022 06:44:50

Bluetooth 2Mbps for Ant.0

PSD 100kHz Plot on Channel 00



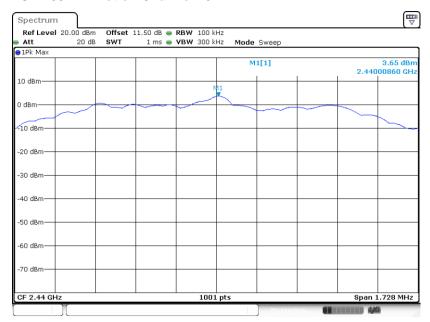
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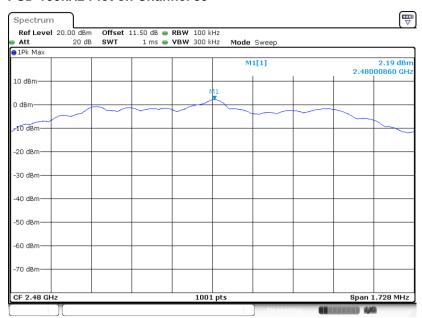
Report No.: FR212202B

PSD 100kHz Plot on Channel 19



Date: 24.MAR.2022 06:57:13

PSD 100kHz Plot on Channel 39



Date: 24.MAR.2022 07:24:49

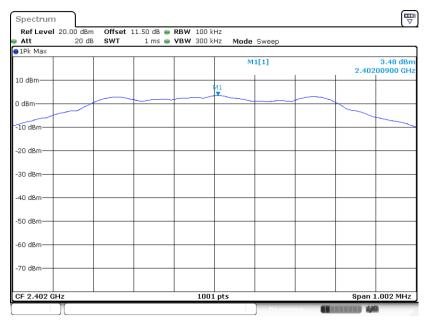
Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 23 of 58
Report Issued Date : Apr. 26, 2022
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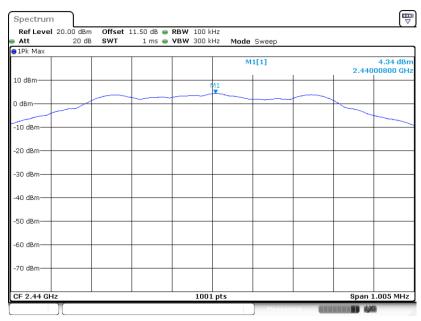
Bluetooth 1Mbps for Ant.1

PSD 100kHz Plot on Channel 00



Date: 24.MAR.2022 07:30:00

PSD 100kHz Plot on Channel 19



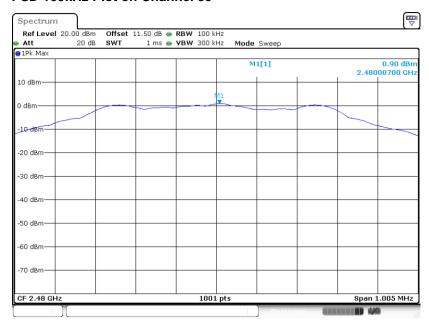
Date: 24.MAR.2022 07:33:22

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 24 of 58
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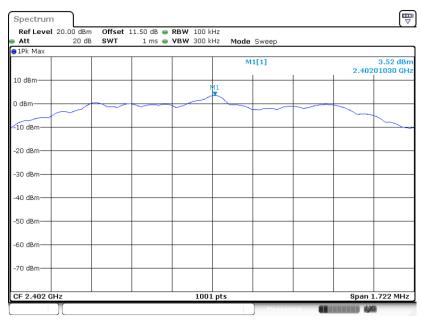
PSD 100kHz Plot on Channel 39



Date: 24.MAR.2022 07:36:03

Bluetooth 2Mbps for Ant.1

PSD 100kHz Plot on Channel 00



Date: 24.MAR.2022 07:43:15

Sporton International Inc. (ShenZhen)

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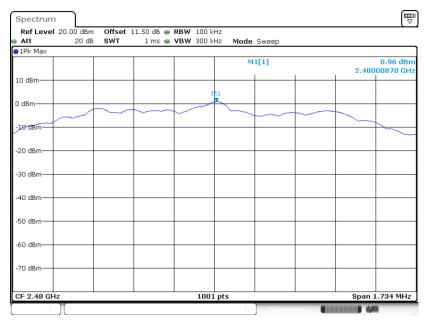
Report No.: FR212202B

PSD 100kHz Plot on Channel 19



Date: 24.MAR.2022 07:47:04

PSD 100kHz Plot on Channel 39



Date: 24.MAR.2022 07:48:52

Sporton International Inc. (ShenZhen)

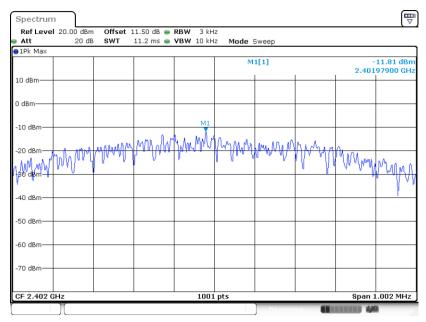
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 26 of 58
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3.3.7 Test Result of Power Spectral Density Plots (3kHz)

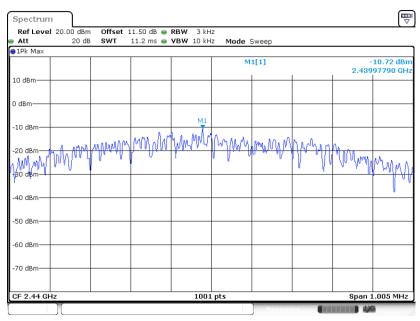
Bluetooth 1Mbps for Ant.0

PSD 3kHz Plot on Channel 00



Date: 24.MAR.2022 06:30:57

PSD 3kHz Plot on Channel 19



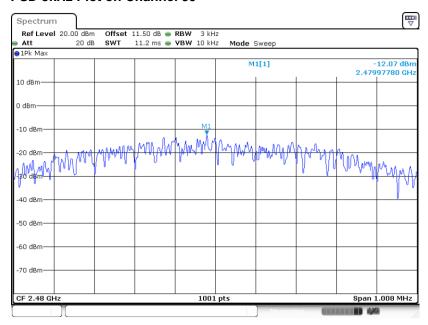
Date: 24.MAR.2022 06:37:39

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 27 of 58
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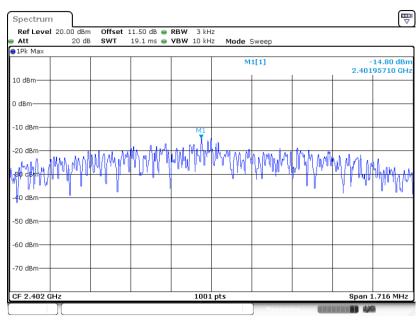
PSD 3kHz Plot on Channel 39



Date: 24.MAR.2022 06:42:52

Bluetooth 2Mbps for Ant.0

PSD 3kHz Plot on Channel 00



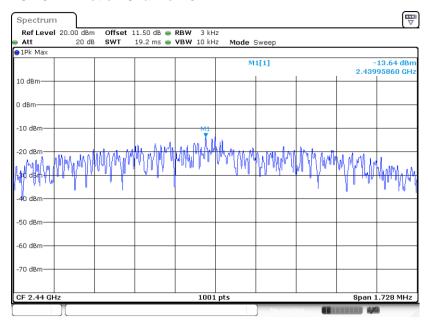
Date: 24.MAR.2022 06:49:06

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 28 of 58
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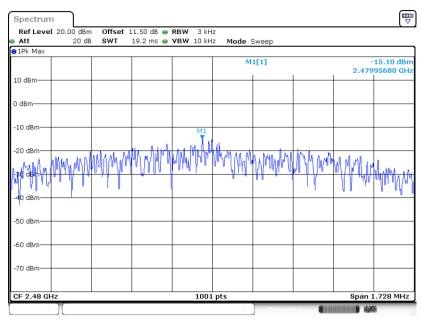
Report No.: FR212202B

PSD 3kHz Plot on Channel 19



Date: 24.MAR.2022 06:57:02

PSD 3kHz Plot on Channel 39



Date: 24.MAR.2022 07:24:39

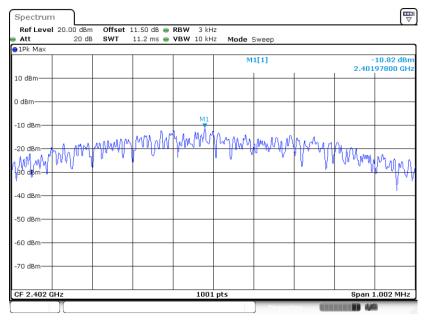
Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 29 of 58
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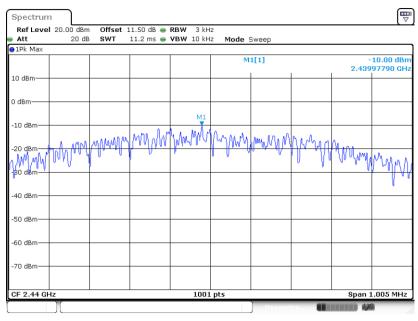
Bluetooth 1Mbps for Ant.1

PSD 3kHz Plot on Channel 00



Date: 24.MAR.2022 07:29:48

PSD 3kHz Plot on Channel 19



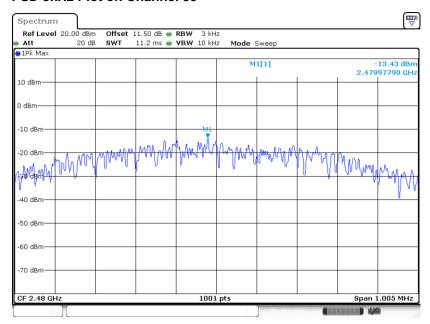
Date: 24.MAR.2022 07:33:03

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 30 of 58
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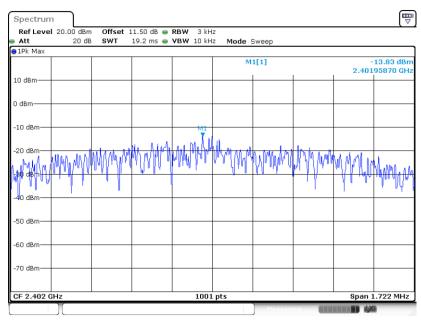
PSD 3kHz Plot on Channel 39



Date: 24.MAR.2022 07:35:50

Bluetooth 2Mbps for Ant.1

PSD 3kHz Plot on Channel 00



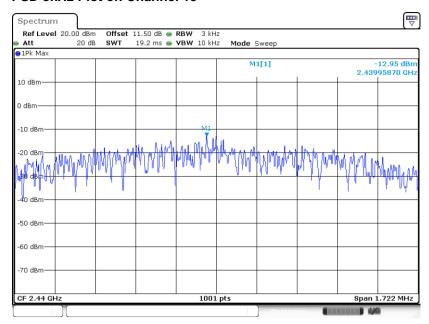
Date: 24.MAR.2022 07:43:03

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 31 of 58
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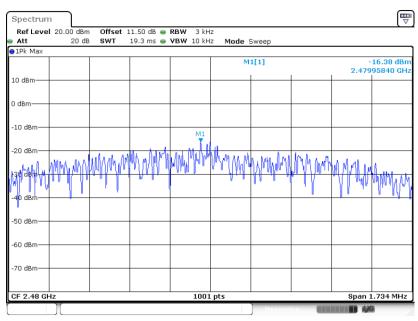
Report No.: FR212202B

PSD 3kHz Plot on Channel 19



Date: 24.MAR.2022 07:46:50

PSD 3kHz Plot on Channel 39



Date: 24.MAR.2022 07:48:40

Sporton International Inc. (ShenZhen)

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3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 30 dB down from the highest emission level within the authorized band.

3.4.2 Measuring Instruments

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



Sporton International Inc. (ShenZhen)

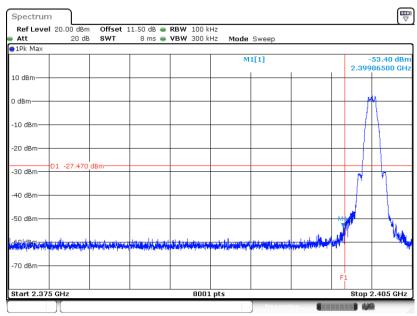
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 33 of 58
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3.4.5 Test Result of Conducted Band Edges Plots

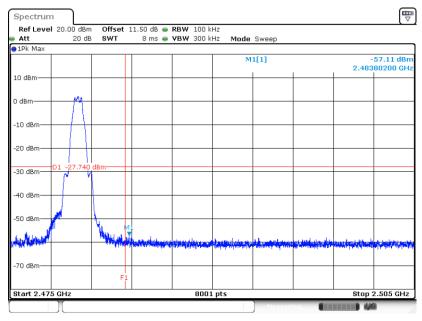
Bluetooth 1Mbps for Ant.0

Low Band Edge Plot on Channel 00



Date: 24.MAR.2022 06:31:44

High Band Edge Plot on Channel 39



Date: 24.MAR.2022 06:45:01

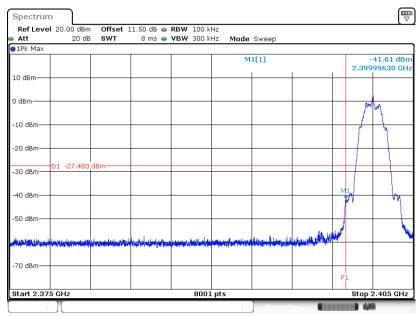
Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 34 of 58
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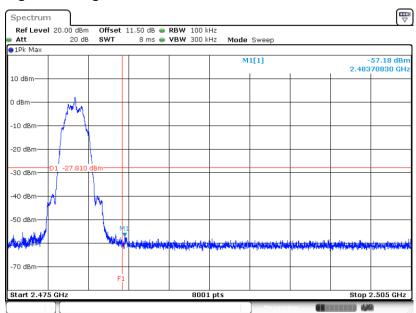
Bluetooth 2Mbps for Ant.0

Low Band Edge Plot on Channel 00



Date: 24.MAR.2022 06:53:47

High Band Edge Plot on Channel 39



Date: 24.MAR.2022 07:25:36

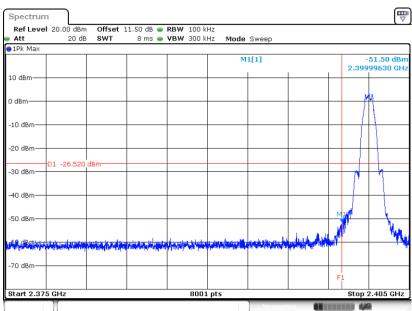
Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 35 of 58
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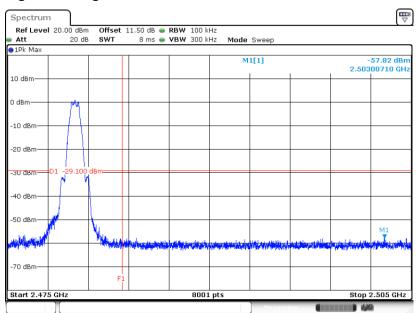
Bluetooth 1Mbps for Ant.1

Low Band Edge Plot on Channel 00



Date: 24.MAR.2022 07:30:14

High Band Edge Plot on Channel 39



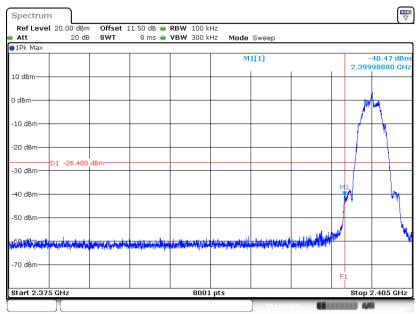
Date: 24.MAR.2022 07:36:22

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 36 of 58
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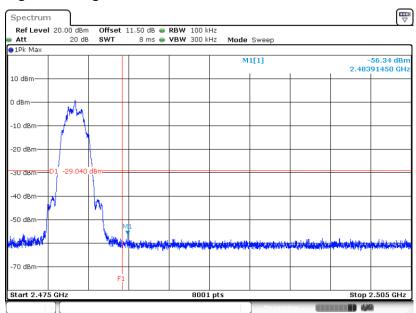
Bluetooth 2Mbps for Ant.1

Low Band Edge Plot on Channel 00



Date: 24.MAR.2022 07:43:39

High Band Edge Plot on Channel 39



Date: 24.MAR.2022 07:49:05

Sporton International Inc. (ShenZhen)

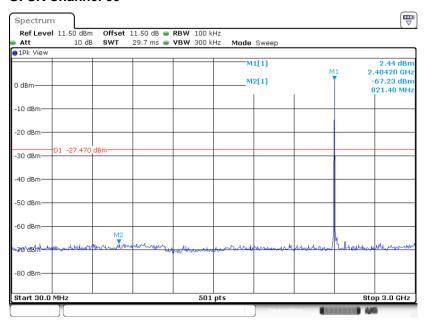
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 37 of 58
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3.4.6 Test Result of Conducted Spurious Emission Plots

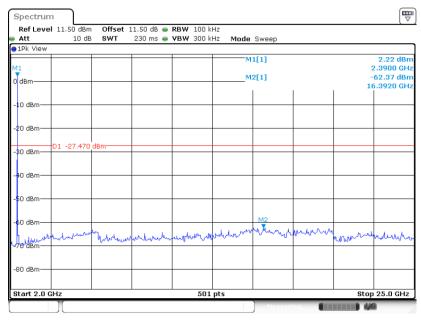
Bluetooth 1Mbps for Ant.0

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



Date: 24.MAR.2022 06:32:47

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

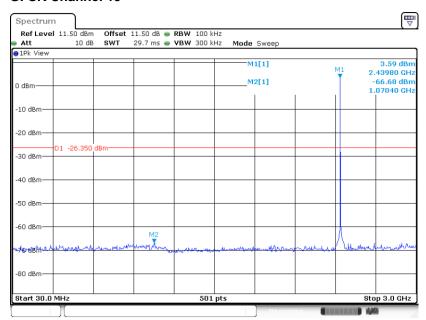


Date: 24.MAR.2022 06:33:07

Sporton International Inc. (ShenZhen)

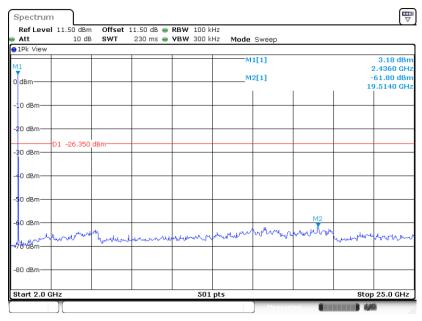
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 38 of 58
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Date: 24.MAR.2022 06:39:24

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

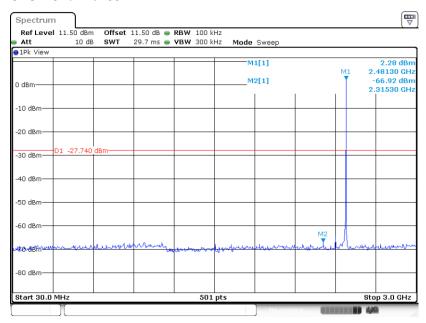


Date: 24.MAR.2022 06:39:42

Sporton International Inc. (ShenZhen)

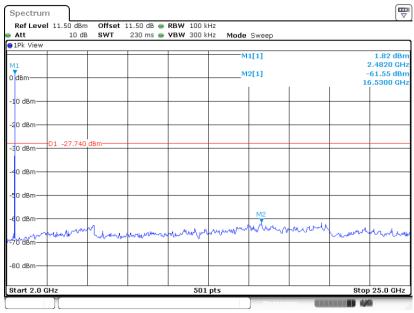
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 39 of 58
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Date: 24.MAR.2022 06:46:48

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



Date: 24.MAR.2022 06:46:59

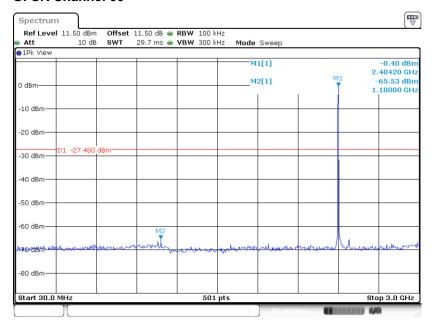
Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 40 of 58
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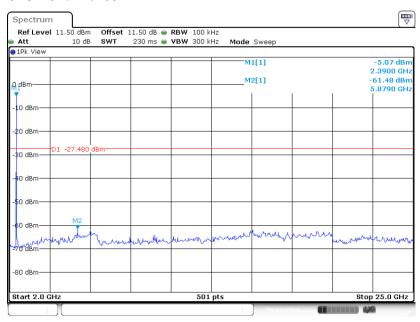
Bluetooth 2Mbps for Ant.0

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



Date: 24.MAR.2022 06:59:01

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

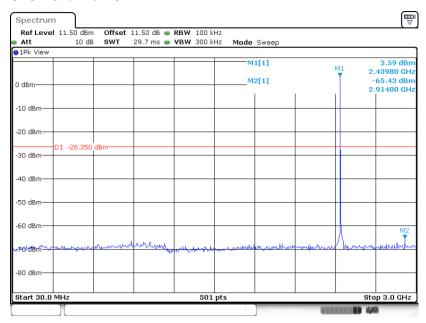


Date: 24.MAR.2022 06:59:11

Sporton International Inc. (ShenZhen)

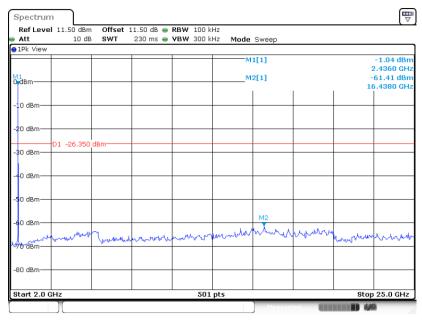
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 41 of 58
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Date: 24.MAR.2022 06:57:28

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

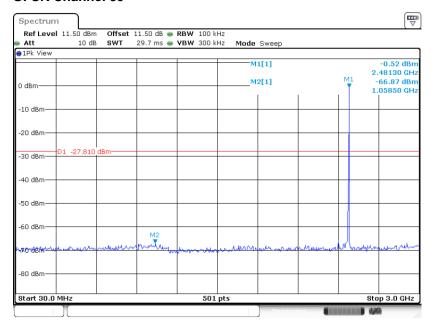


Date: 24.MAR.2022 06:57:38

Sporton International Inc. (ShenZhen)

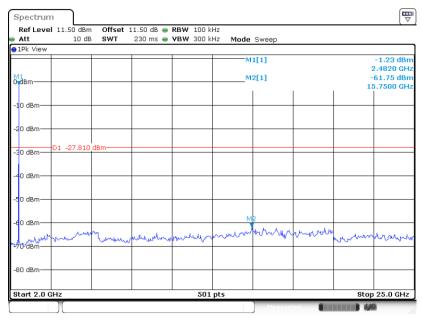
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 42 of 58
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Date: 24.MAR.2022 07:27:24

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



Date: 24.MAR.2022 07:27:35

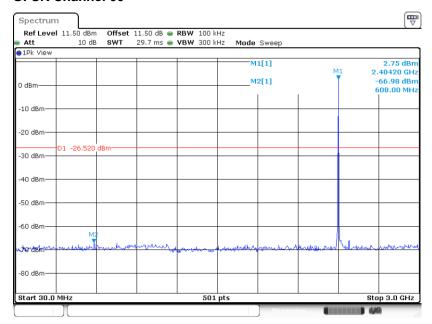
Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 43 of 58
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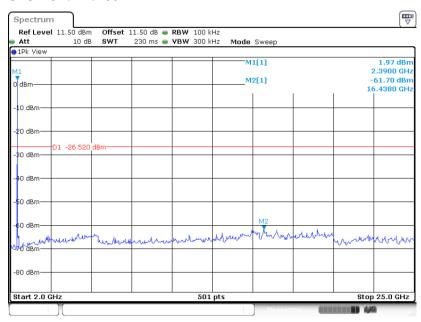
Bluetooth 1Mbps for Ant.1

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



Date: 24.MAR.2022 07:30:43

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

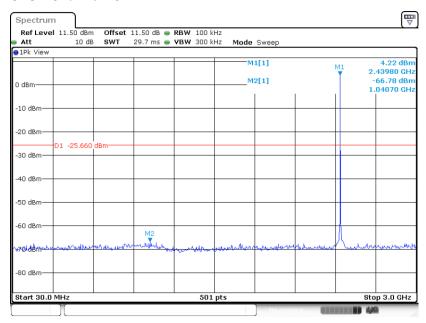


Date: 24.MAR.2022 07:30:56

Sporton International Inc. (ShenZhen)

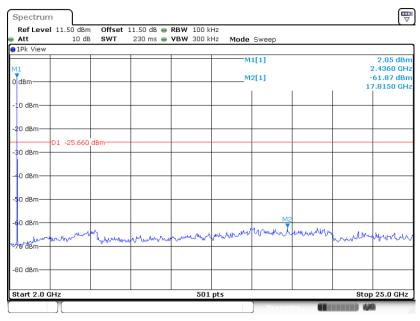
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 44 of 58
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Date: 24.MAR.2022 07:33:35

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

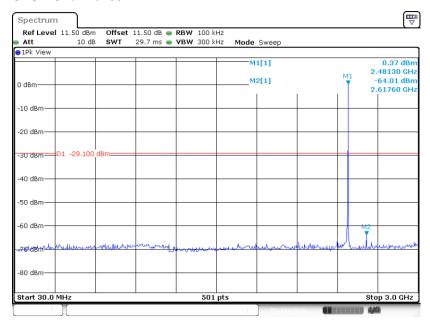


Date: 24.MAR.2022 07:33:51

Sporton International Inc. (ShenZhen)

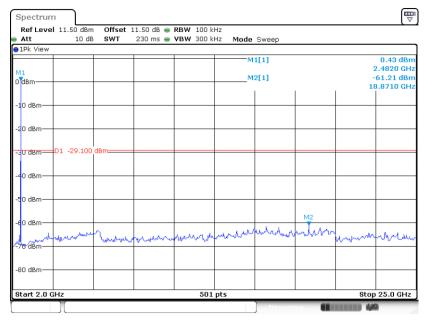
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 45 of 58
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Date: 24.MAR.2022 07:41:06

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



Date: 24.MAR.2022 07:41:17

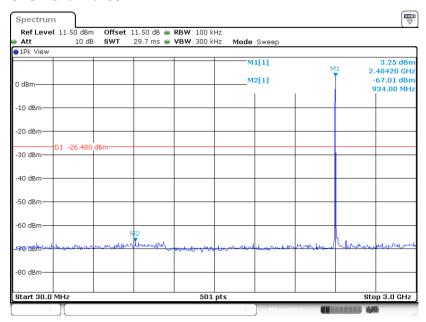
Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 46 of 58
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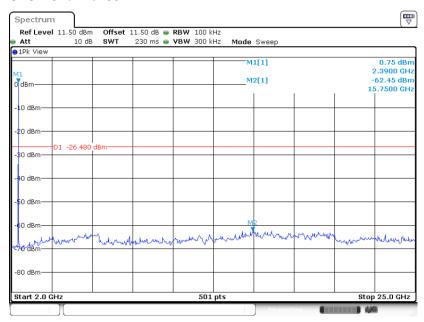
Bluetooth 2Mbps for Ant.1

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



Date: 24.MAR.2022 07:44:58

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

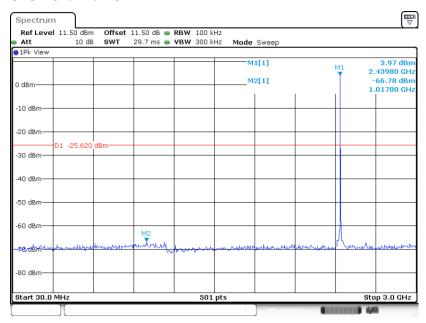


Date: 24.MAR.2022 07:45:10

Sporton International Inc. (ShenZhen)

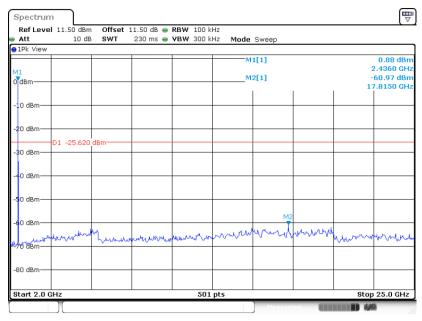
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 47 of 58
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Date: 24.MAR.2022 07:47:18

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

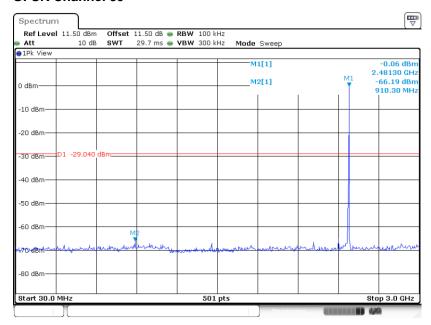


Date: 24.MAR.2022 07:47:29

Sporton International Inc. (ShenZhen)

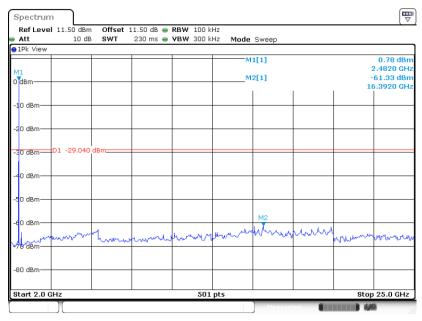
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 48 of 58
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Date: 24.MAR.2022 07:49:59

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



Date: 24.MAR.2022 07:50:10

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AUCY-V2145 Page Number : 49 of 58
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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.

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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 ≥ 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.

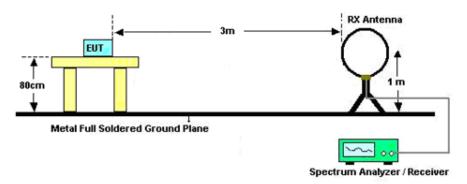
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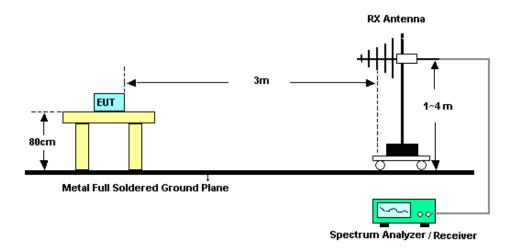
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3.5.4 Test Setup

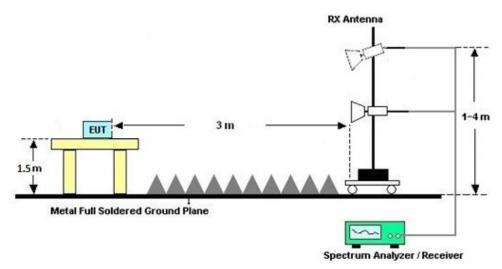
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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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.

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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.

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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.

Eroquency 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

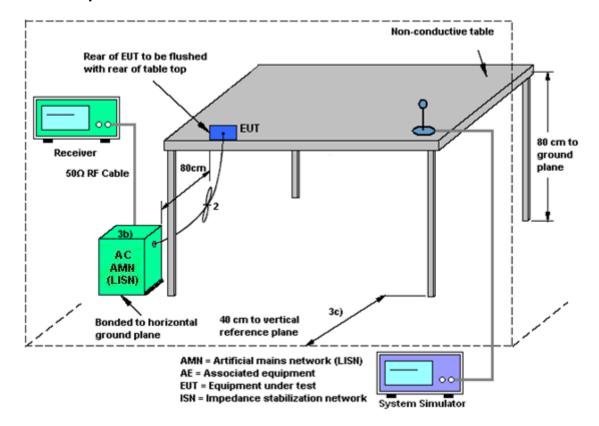
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other 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.
- 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.

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3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

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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.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristic s	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Mar. 06, 2022	Mar. 26, 2022	Mar. 05, 2023	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2 LISN	00103912	9kHz~30MHz	Dec. 25, 2020	Mar. 26, 2022	Dec 24, 2021	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 15, 2020	Mar. 26, 2022	Oct. 14, 2021	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000 0891	100Vac~250Va c	Jul. 21, 2020	Mar. 26, 2022	Jul. 20, 2021	Conduction (CO01-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Mar. 12, 2022~ Apr. 07, 2022	Apr. 07, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangrou p	LP-150U	H2014081 803	-40~+150°C	Jul. 22, 2020	Mar. 12, 2022~ Apr. 07, 2022	Jul. 21, 2021	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA24440A	11707	50MHz~40GH z	Jun. 04, 2021	Mar. 12, 2022~ Apr. 07, 2022	Jun.03, 2022	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY544500 83	20Hz~8.4GHz	Apr. 06, 2022	Apr. 08, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY551502 46	10Hz~44GHz;	Apr. 06, 2022	Apr. 08, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Apr. 08, 2022	Jun. 21, 2022	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 22, 2020	Apr. 08, 2022	Jun. 21, 2022	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120 D	9120D-135 5	1GHz~18GHz	Apr. 25 2021	Apr. 08, 2022	Apr. 24 2022	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-3 5-HG	1871923	18GHz~40GH z	Oct. 22,2021	Apr. 08, 2022	Oct. 21,2022	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 11, 2021	Apr. 08, 2022	Apr. 10, 2022	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 22, 2021	Apr. 08, 2022	Oct. 21, 2022	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30- 10P-R	1943528	1GHz~18GHz	Oct. 22, 2021	Apr. 08, 2022	Oct. 21, 2022	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY395013 02	500MHz~26.5 GHz	Dec. 30, 2021	Apr. 08, 2022	Dec. 29, 2022	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	61601000 1985	N/A	NCR	Apr. 08, 2022	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 08, 2022	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

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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.

<u>Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of Confidence	2 2 AB
of 95% (U = 2Uc(y))	2.2 dB

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of Confidence	5 0 ID
1	5.0 dB
of 95% (U = 2Uc(y))	

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

I	
Measuring Uncertainty for a Level of Confidence	4.9 dB
of 95% (U = 2Uc(y))	4.9 UB

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

Measuring Uncertainty for a Level of Confidence	5.0 dB
of 95% (U = 2Uc(y))	3.0 db

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

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Appendix A. Conducted Test Results

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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Zhang Xue Yi	Temperature:	21~25	°C
Test Date:	2022/03/24~2022/04/07	Relative Humidity:	51~54	%

TEST RESULTS DATA FOR ANTO 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	1.015	0.668	0.50	Pass
BLE	1Mbps	1	19	2440	1.015	0.670	0.50	Pass
BLE	1Mbps	1	39	2480	1.015	0.672	0.50	Pass

TEST RESULTS DATA Average Power Table

Average Power Table (<30dBm, PASS)

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	1Mbps	1	0	2402	2.09	7.50
BLE	1Mbps	1	19	2440	2.09	8.60
BLE	1Mbps	1	39	2480	2.09	7.10

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	2.53	-11.81	-3.00	8.00	Pass
BLE	1Mbps	1	19	2440	3.65	-10.72	-3.00	8.00	Pass
BLE	1Mbps	1	39	2480	2.26	-12.07	-3.00	8.00	Pass

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Zhang Xue Yi	Temperature:	21~25	°C
Test Date:	2022/03/24~2022/04/07	Relative Humidity:	51~54	%

TEST RESULTS DATAFOR ANT1 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	1.015	0.668	0.50	Pass
BLE	1Mbps	1	19	2440	1.015	0.670	0.50	Pass
BLE	1Mbps	1	39	2480	1.015	0.670	0.50	Pass

TEST RESULTS DATA Average Power Table (<30dBm, PASS)

Mod.	Data Rate	N TX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	1Mbps	1	0	2402	2.09	7.70
BLE	1Mbps	1	19	2440	2.09	9.20
BLE	1Mbps	1	39	2480	2.09	6.30

TEST RESULTS DATA Peak Power Density

Mod.	Data Rate	N TX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	1Mbps	1	0	2402	3.48	-10.82	-3.00	8.00	Pass
BLE	1Mbps	1	19	2440	4.34	-10.00	-3.00	8.00	Pass
BLE	1Mbps	1	39	2480	0.90	-13.43	-3.00	8.00	Pass

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Zhang Xue Yi	Temperature:	21~25	°C
Test Date:	2022/03/24~2022/04/07	Relative Humidity:	51~54	%

TEST RESULTS DATAFOR ANTO 6dB and 99% Occupied Bandwidth

Mod.	Data Rate	N TX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	2Mbps	1	0	2402	1.994	1.144	0.50	Pass
BLE	2Mbps	1	19	2440	1.990	1.152	0.50	Pass
BLE	2Mbps	1	39	2480	1.990	1.152	0.50	Pass

TEST RESULTS DATA

Average Power Table (<30dBm, PASS)

Mod.	Data Rate	N TX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	2Mbps	1	0	2402	4.91	7.60
BLE	2Mbps	1	19	2440	4.91	8.70
BLE	2Mbps	1	39	2480	4.91	7.20

TEST RESULTS DATA

Peak Power Density

Mod.	Data Rate	N TX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	2Mbps	1	0	2402	2.52	-14.80	-3.00	8.00	Pass
BLE	2Mbps	1	19	2440	3.65	-13.64	-3.00	8.00	Pass
BLE	2Mbps	1	39	2480	2.19	-15.10	-3.00	8.00	Pass

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Zhang Xue Yi	Temperature:	21~25	°C
Test Date:	2022/03/24~2022/04/07	Relative Humidity:	51~54	%

TEST RESULTS DATAFOR ANT1 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	1.994	1.148	0.50	Pass
BLE	2Mbps	1	19	2440	1.990	1.148	0.50	Pass
BLE	2Mbps	1	39	2480	1.990	1.156	0.50	Pass

TEST RESULTS DATA

Average Power Table (<30dBm, PASS)

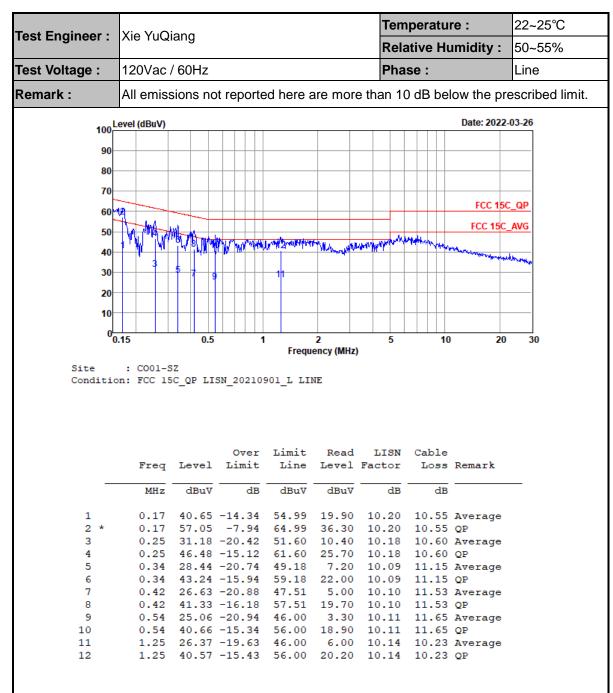
Mod.	Data Rate	N TX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	2Mbps	1	0	2402	4.91	7.80
BLE	2Mbps	1	19	2440	4.91	9.30
BLE	2Mbps	1	39	2480	4.91	6.40

TEST RESULTS DATA

Peak Power Density

Mod.	Data Rate	N TX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	2Mbps	1	0	2402	3.52	-13.83	-3.00	8.00	Pass
BLE	2Mbps	1	19	2440	4.38	-12.95	-3.00	8.00	Pass
BLE	2Mbps	1	39	2480	0.96	-16.38	-3.00	8.00	Pass

Appendix B. AC Conducted Emission Test Results



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Test Engineer : Xie YuQiang

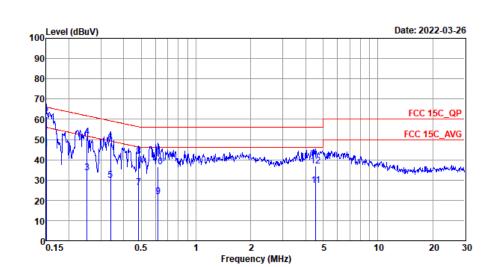
Temperature : 22~25°C

Relative Humidity : 50~55%

Test Voltage : 120Vac / 60Hz

Phase : Neutral

Remark : All emissions not reported here are more than 10 dB below the prescribed limit.



Site : CO01-SZ Condition: FCC 15C_QP LISN_20210901_N NEUTRAL

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	-dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	45.26	-10.74	56.00	24.10	10.31	10.85	Average
2 *	0.15	61.36	-4.64	66.00	40.20	10.31	10.85	QP
3	0.25	33.74	-17.95	51.69	12.90	10.25	10.59	Average
4	0.25	51.44	-10.25	61.69	30.60	10.25	10.59	QP
5	0.34	29.81	-19.41	49.22	8.50	10.18	11.13	Average
6	0.34	48.51	-10.71	59.22	27.20	10.18	11.13	QP
7	0.48	26.09	-20.18	46.27	4.10	10.19	11.80	Average
8	0.48	41.79	-14.48	56.27	19.80	10.19	11.80	QP
9	0.62	21.80	-24.20	46.00	0.19	10.24	11.37	Average
10	0.62	36.60	-19.40	56.00	14.99	10.24	11.37	QP
11	4.55	27.48	-18.52	46.00	7.10	10.14	10.24	Average
12	4.55	36.78	-19.22	56.00	16.40	10.14	10.24	QP

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

ANT1_2Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2389.905	48.34	-25.66	74	49.29	27.8	4.91	33.66	352	322	Р	Н
		2387.49	36.56	-17.44	54	37.51	27.8	4.91	33.66	352	322	Α	Н
5. 5	*	2402	100.72	-	-	101.68	27.79	4.91	33.66	352	322	Р	н
BLE CH 00	*	2402	100.41	-	-	101.37	27.79	4.91	33.66	352	322	Α	н
2402MHz		2364.285	48.74	-25.26	74	49.78	27.8	4.84	33.68	400	244	Р	V
2402111112		2386.02	36.3	-17.7	54	37.25	27.8	4.91	33.66	400	244	Α	V
	*	2402	100.47	-	-	101.42	27.8	4.91	33.66	400	244	Р	V
	*	2402	100.24	-	-	101.19	27.8	4.91	33.66	400	244	Α	V
		2355.22	48.47	-25.53	74	49.52	27.8	4.84	33.69	127	202	Р	Н
		2383.5	36.24	-17.76	54	37.24	27.8	4.88	33.68	127	202	Av	Н
		2440	100.97	-	-	102	27.64	4.96	33.63	127	202	Р	Н
		2440	100.8	-	-	101.83	27.64	4.96	33.63	127	202	Α	Н
		2485.51	47.87	-26.13	74	48.97	27.53	4.99	33.62	127	202	Р	Н
BLE		2485.65	36.23	-17.77	54	37.33	27.53	4.99	33.62	127	202	Α	Н
CH 19 2440MHz		2340.66	48.69	-25.31	74	49.77	27.8	4.81	33.69	370	46	Р	V
244UIVITIZ		2337.16	36.22	-17.78	54	37.3	27.8	4.81	33.69	370	46	Α	V
		2440	98.15	-	-	99.22	27.6	4.96	33.63	370	46	Р	V
		2440	97.74	-	-	98.81	27.6	4.96	33.63	370	46	Α	V
		2485.86	48.47	-25.53	74	49.57	27.53	4.99	33.62	370	46	Р	V
		2487.26	36.33	-17.67	54	37.43	27.53	4.99	33.62	370	46	Α	V

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2480 101.34 27.54 4.99 33.62 119 Ρ Н 100.25 321 2480 100.67 101.76 27.54 4.99 33.62 119 321 Α Н Р 2498.64 48.44 -25.56 74 49.53 27.5 5.01 33.6 119 321 Н BLE 2484.36 36.72 -17.28 54 37.82 27.53 4.99 33.62 119 321 Α Н **CH 39** 2480 99.33 100.43 27.53 4.99 33.62 369 244 ٧ 2480MHz 2480 100.27 27.53 33.62 369 ٧ 99.17 -4.99 244 Ρ ٧ 2491.24 49.67 -24.33 74 50.76 27.5 5.01 33.6 369 244 2486.44 36.41 -17.59 54 37.51 27.53 4.99 33.62 369 244 Α ٧ No other spurious found. Remark All results are PASS against Peak and Average limit line.

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2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol
		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	
BLE		4804	42.61	-31.39	74	57.05	31.4	7.09	52.93	-	-	Р	Н
CH 00 2402MHz		4804	43.74	-30.26	74	58.18	31.4	7.09	52.93	-	-	Р	V
		4880	43.47	-30.53	74	57.66	31.46	7.19	52.84	-	-	Р	Н
BLE		7320	43.89	-30.11	74	52.7	36.5	8.8	54.11	-	-	Р	Н
CH 19		4880	43.38	-30.62	74	57.56	31.47	7.19	52.84	-	-	Р	V
2440MHz		7320	44.83	-29.17	74	53.64	36.5	8.8	54.11	-	-	Р	V
		4960	41.76	-32.24	74	55.68	31.6	7.22	52.74	-	-	Р	Н
BLE		7440	45.35	-28.65	74	54	36.44	8.95	54.04	-	-	Р	Н
CH 39		4960	43	-31	74	56.92	31.6	7.22	52.74	-	-	Р	V
2480MHz		7440	44.95	-29.05	74	53.54	36.5	8.95	54.04	-	-	Р	V

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Emission below 1GHz

2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Ро
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/\
		50.37	19.43	-20.57	40	35.08	15.42	0.63	31.7	-	-	Р	Н
		91.11	26.68	-16.82	43.5	41.18	16.11	0.83	31.44	-	-	Р	Н
		133.79	22	-21.5	43.5	34.38	18.14	1.01	31.53	-	-	Р	Н
		175.5	22.21	-21.29	43.5	36.39	16.08	1.09	31.35	-	-	Р	Н
		530.52	23.59	-22.41	46	27.95	24.47	2.03	30.86	-	-	Р	Н
2.4GHz		815.7	27.63	-18.37	46	29.26	26.85	2.45	30.93	-	-	Р	Н
BLE LF		55.22	27.8	-12.2	40	44.8	14.32	0.63	31.95	-	-	Р	٧
		91.11	25.89	-17.61	43.5	40.39	16.11	0.83	31.44	-	-	Р	٧
		172.59	26.13	-17.37	43.5	40.19	16.2	1.09	31.35	-	-	Р	V
		329.73	20.64	-25.36	46	29.53	20.62	1.56	31.07	-	-	Р	٧
		473.29	22.56	-23.44	46	27.92	23.58	1.91	30.85	-	-	Р	V
		761.38	26.68	-19.32	46	28.74	26.45	2.39	30.9	-	-	Р	V

All results are PASS against limit line.

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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

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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.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 00													
2402MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

- 1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
- 2. Level($dB\mu V/m$) =

Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

3. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

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

For Average Limit @ 2390MHz:

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

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

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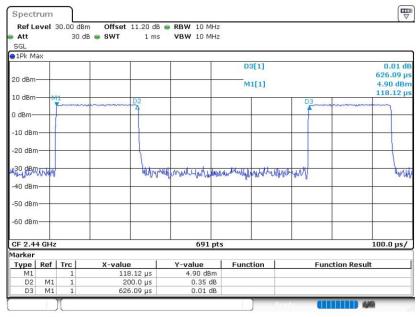
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Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting	
Bluetooth 2Mbps	31.94	0.2	5	10KHz	

Bluetooth 2Mbps



Date: 12.MAR.2022 14:40:02

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