FCC RF Test Report

APPLICANT : Pod Trackers Pty Ltd EQUIPMENT : Pod 3 GPS Tracker

BRAND NAME : Pod Trackers

MODEL NAME : POD-003

MARKETING NAME : Pod 3 GPS Tracker FCC ID : 2AD83POD-3-1

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Aug. 20, 2018 and testing was completed on Oct. 28, 2018. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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



Approved by: Eric Shih / Manager

Sporton International (Shenzhen) Inc.

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

Sporton International (ShenZhen) Inc.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR882005A	Rev. 01	Initial issue of report	Nov. 20, 2018

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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	-	Pass	-
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 5.56 dB at 2483.680 MHz
-	15.207	AC Conducted Emission	15.207(a)	Not Required	-
3.6	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

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1 General Description

1.1 Applicant

Pod Trackers Pty Ltd

Lvl 9,61 Lavender St Milsons Point NSW 2061 Australia

1.2 Manufacturer

Kaifa Technology Co., Ltd.

7006 Caitian Rd., Futian Distric, Shenzhen, China

1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Pod 3 GPS Tracker			
Brand Name	Pod Trackers			
Model Name	POD-003			
Marketing Name	Pod 3 GPS Tracker			
FCC ID	2AD83POD-3-1			
	GSM/EGPRS/WCDMA/HSPA/GNSS			
EUT supports Radios application	WLAN 11b/g/n HT20			
	Bluetooth LE			
HW Version V3.1.0.0				
SW Version	V3.3.83			
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-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	4.18 dBm (0.0026 W)			
99% Occupied Bandwidth	1.08MHz			
Antenna Type / Gain LA.02 Antenna type with gain 0.05 dBi				
Type of Modulation Bluetooth LE : GFSK				

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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 Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0).

Test Site	Sporton International (Shenzhen) Inc.					
	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen City, Guangdong Province 518055, China					
Test Site Location	TEL: +86-755-8637-9589					
	FAX: +86-755-8637-9595					
	Sporton Sito No	500 de implier N				
Test Site No.	Sporton Site No.	FCC designation No.	Registration No.			
	TH01-SZ	CN5018	337463			
Test Site	Sporton International (Shenzhen) Inc.					
	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse,					
Test Site Location	Nanshan District, Shenzhen City, Guangdong Province 518055, China					
	TEL: +86-755- 3320-2398					
	FCC Test Firm					

1.7 Applicable Standards

Test Site No.

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

FCC designation No.

CN5019

- FCC Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05

Sporton Site No.

03CH04-SZ

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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Registration No.

577730

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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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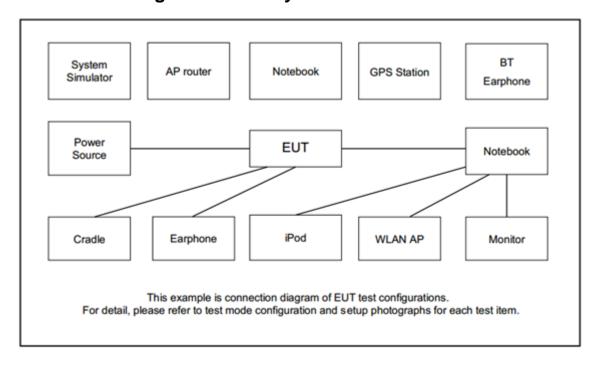
2.2 Test Mode

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:, 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.

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_1Mbps					
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps					
TCs	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps					
Dodistod	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps					
Radiated	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps					
TCs	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps					

2.3 Connection Diagram of Test System



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2.4 EUT Operation Test Setup

The RF test items, an engineering test program was installed in PC which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 5.4 dB.

 $Offset(dB) = RF \ cable \ loss(dB).$ = 5.4 (dB)

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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.

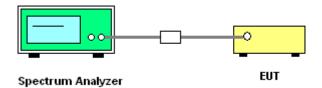
3.1.2 Measuring Instruments

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 30kHz and set the Video bandwidth (VBW) = 100kHz.
- 6. Measure and record the results in the test report.

3.1.4 Test Setup



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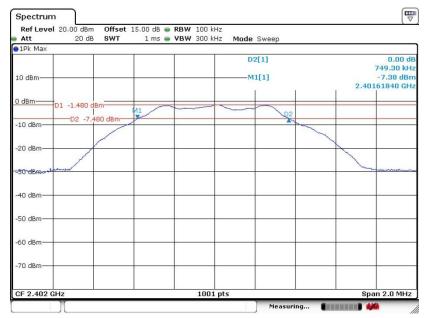
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3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

6 dB Bandwidth Plot on Channel 00

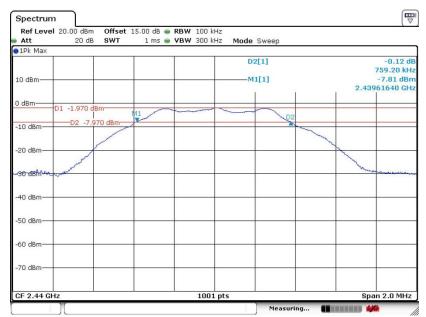


Date: 9.OCT.2018 16:16:55

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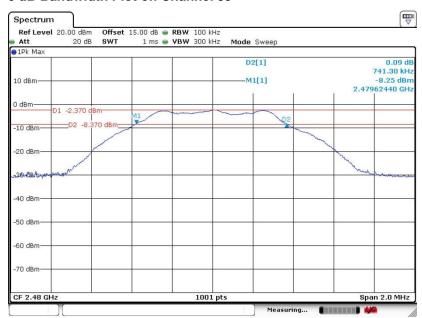
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6 dB Bandwidth Plot on Channel 19



Date: 9.OCT.2018 16:11:58

6 dB Bandwidth Plot on Channel 39



Date: 9.OCT.2018 16:08:05

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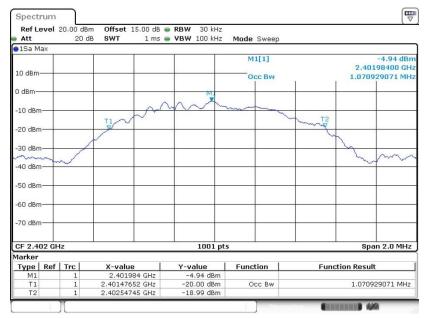
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3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

99% Bandwidth Plot on Channel 00



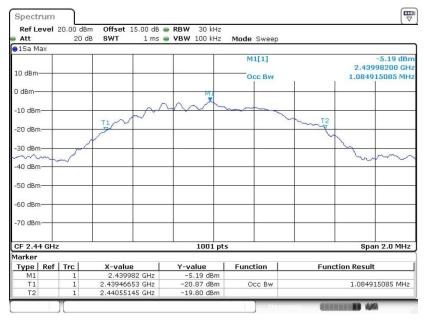
Date: 9.OCT.2018 16:19:36

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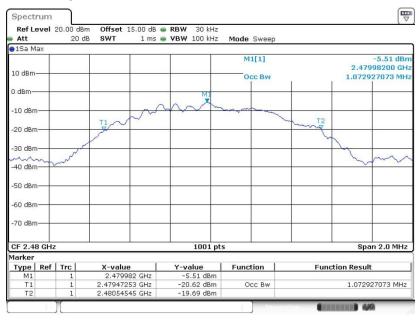
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99% Occupied Bandwidth Plot on Channel 19



Date: 9.OCT.2018 16:13:38

99% Occupied Bandwidth Plot on Channel 39



Date: 9.OCT.2018 16:10:12

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

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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 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 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 Olny)

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.

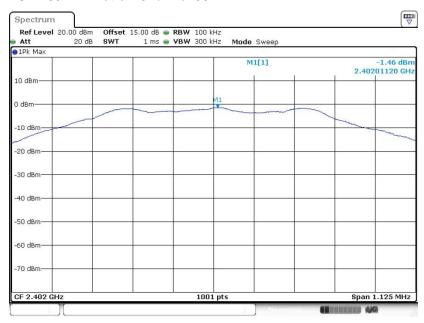
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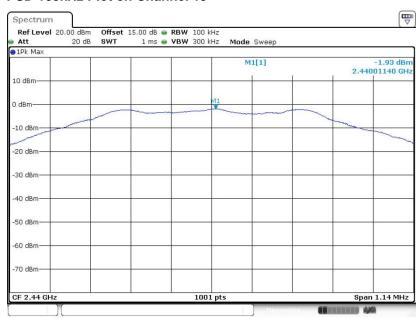
3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on Channel 00



Date: 9.OCT.2018 16:18:12

PSD 100kHz Plot on Channel 19



Date: 9.OCT.2018 16:12:48

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PSD 100kHz Plot on Channel 39



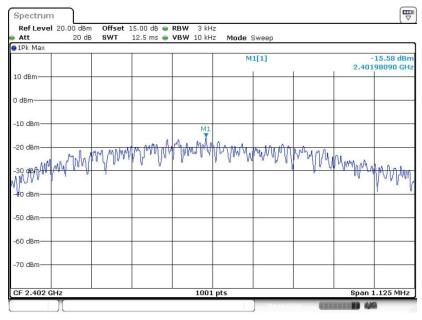
Date: 9.OCT.2018 16:08:51

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

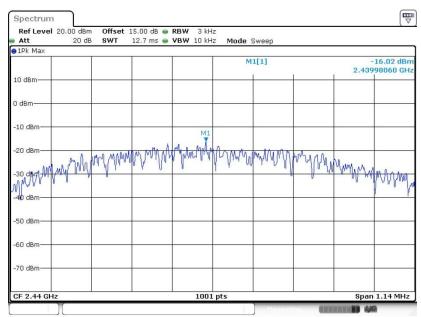
PSD 3kHz Plot on Channel 00



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Date: 9.OCT.2018 16:17:41

PSD 3kHz Plot on Channel 19



Date: 9.OCT.2018 16:12:20

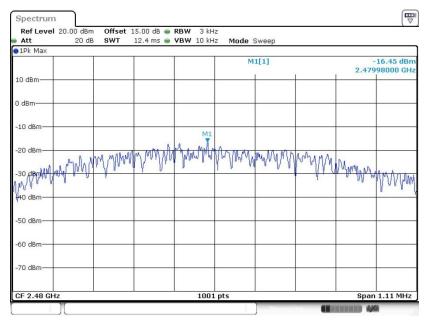
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PSD 3kHz Plot on Channel 39



Date: 9.OCT.2018 16:08:34

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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 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



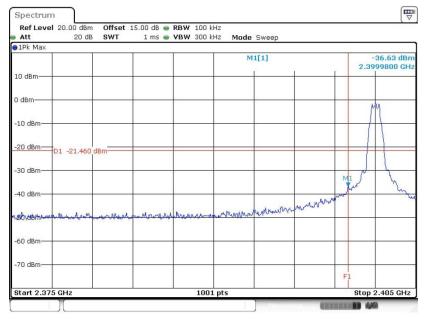
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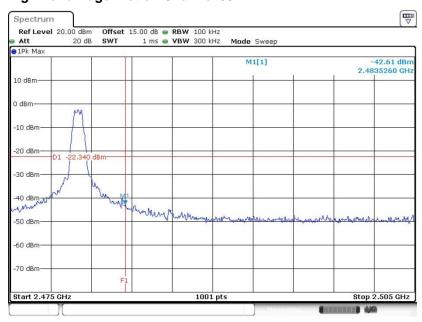
3.4.5 Test Result of Conducted Band Edges Plots

Low Band Edge Plot on Channel 00



Date: 9.OCT.2018 16:18:54

High Band Edge Plot on Channel 39



Date: 9.OCT.2018 16:09:19

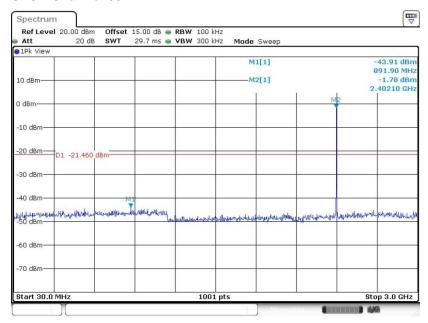
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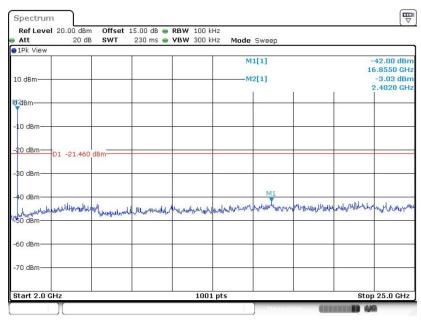
3.4.6 Test Result of Conducted Spurious Emission Plots

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



Date: 9.OCT.2018 16:19:06

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



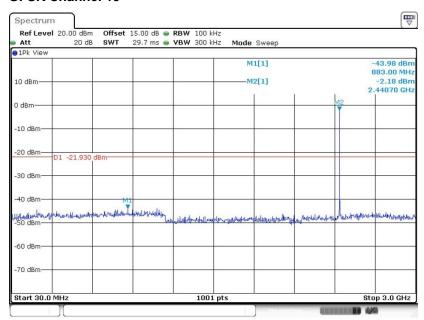
Date: 9.OCT.2018 16:19:15

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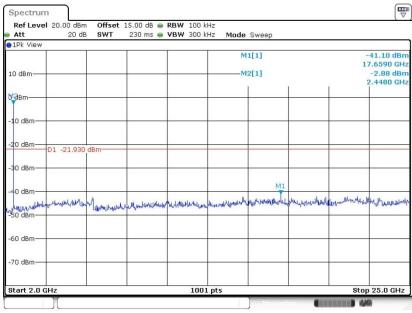
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Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



Date: 9.OCT.2018 16:13:01

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



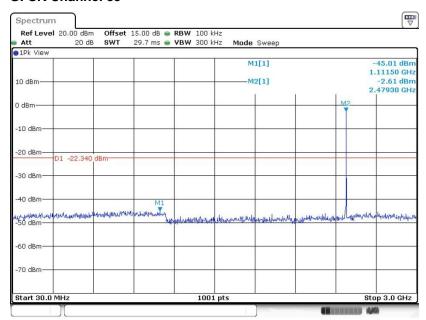
Date: 9.OCT.2018 16:13:09

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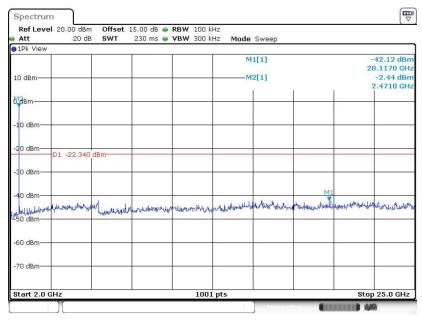
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Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



Date: 9.OCT.2018 16:09:32

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



Date: 9.OCT.2018 16:09:40

Sporton International (ShenZhen) Inc.

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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 average 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.

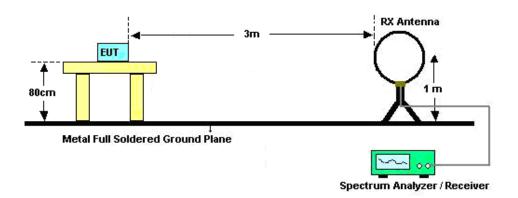
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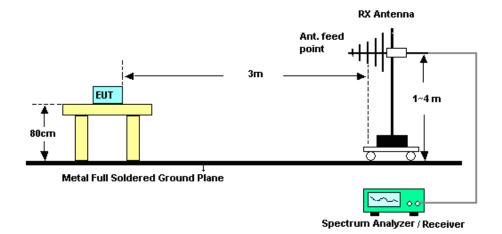
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3.5.4 Test Setup

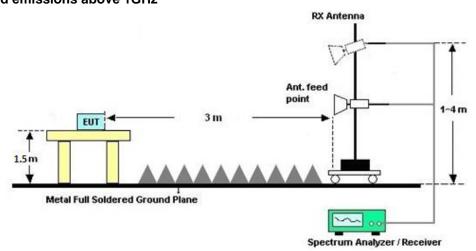
For radiated emissions below 30MHz



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 B.

3.5.7 Duty Cycle

Please refer to Appendix C.

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

Please refer to Appendix B.

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3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 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.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	Apr. 19, 2018	Oct. 09, 2018~ Oct. 28, 2018	Apr. 18, 2019	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1207253	30MHz~40GHz	Dec. 26, 2017	Oct. 09, 2018~ Oct. 28, 2018	Dec. 25, 2018	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Dec. 26, 2017	Oct. 09, 2018~ Oct. 28, 2018	Dec. 25, 2018	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Apr. 19, 2018	Oct. 14, 2018~ Oct. 21, 2018	Apr. 18, 2019	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 19, 2018	Oct. 14, 2018~ Oct. 21, 2018	Apr. 18, 2019	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 14, 2018	Oct. 14, 2018~ Oct. 21, 2018	May 13, 2019	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Aug. 28, 2018	Oct. 14, 2018~ Oct. 21, 2018	Aug. 27, 2019	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-1285	1GHz~18GHz	Dec. 13, 2017	Oct. 14, 2018~ Oct. 21, 2018	Dec. 12, 2018	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBE CK	BBHA9170	9170#679	15GHz~40GHz	Apr. 20, 2018	Oct. 14, 2018~ Oct. 21, 2018	Apr. 19, 2019	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19, 2017	Oct. 14, 2018~ Oct. 17, 2018	Oct. 18, 2018	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2018	Oct. 18, 2018~ Oct. 21, 2018	Oct. 17, 2019	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101 800-30-10P-R	1989346	1GHz~18GHz	Jul. 30, 2018	Oct. 14, 2018~ Oct. 21, 2018	Jul. 29, 2019	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-H G	1988315	18GHz~40GHz	Jul. 26, 2018	Oct. 14, 2018~ Oct. 21, 2018	Jul. 25, 2019	Radiation (03CH04-SZ
Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Apr. 19, 2018	Oct. 14, 2018~ Oct. 21, 2018	Apr. 18, 2019	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Oct. 14, 2018~ Oct. 21, 2018	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 14, 2018~ Oct. 21, 2018	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 14, 2018~ Oct. 21, 2018	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	5.1 dB
of 95% (U = 2Uc(y))	3.1 db

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

Measuring Uncertainty for a Level of Confidence	4.8 dB
of 95% (U = 2Uc(y))	4.0 UB

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

Measuring Uncertainty for a Level of Confidence	5.1 dB
of 95% (U = 2Uc(y))	3.1 UB

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Appendix A. Conducted Test Results

Bluetooth Low Energy

Test Engineer:	Wilson Chen	Temperature:	21~25	°C
Test Date:	2018/10/09~10/28	Relative Humidity:	51~54	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

Mod	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	1Mbps	1	0	2402	1.07	0.75	0.50	Pass
BLE	1Mbps	1	19	2440	1.08	0.76	0.50	Pass
BLE	1Mbps	1	39	2480	1.07	0.74	0.50	Pass

TEST RESULTS DATA Peak Power Table

Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	4.18	30.00	0.05	4.23	36.00	Pass
BLE	1Mbps	1	19	2440	4.00	30.00	0.05	4.05	36.00	Pass
BLE	1Mbps	1	39	2480	3.92	30.00	0.05	3.97	36.00	Pass

TEST RESULTS DATA Average Power Table (Reporting Only)

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	1Mbps	1	0	2402	2.04	-0.54
BLE	1Mbps	1	19	2440	2.04	-0.91
BLE	1Mbps	1	39	2480	2.04	-1.24

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
ſ	BLE	1Mbps	1	0	2402	-1.46	-15.58	0.05	8.00	Pass
ſ	BLE	1Mbps	1	19	2440	-1.93	-16.02	0.05	8.00	Pass
Ī	BLE	1Mbps	1	39	2480	-2.34	-16.45	0.05	8.00	Pass

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

Appendix B. Radiated Spurious Emission

Tool Engineer		Temperature :	22~25 ℃
Test Engineer :	Fuquan Wu	Relative Humidity :	48~52%

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2388.645	48.69	-25.31	74	49.49	27.7	4.78	33.28	110	138	Р	Н
		2384.13	38.59	-15.41	54	39.43	27.72	4.72	33.28	110	138	Α	Н
DI E	*	2402	84.08	-	-	84.86	27.7	4.78	33.26	110	138	Р	Н
BLE CH 00	*	2402	83.3	-	-	84.08	27.7	4.78	33.26	110	138	Α	Н
2402MHz		2389.8	59.76	-14.24	74	60.54	27.7	4.78	33.26	103	350	Р	V
2402141112		2390	43.15	-10.85	54	43.93	27.7	4.78	33.26	103	350	Α	V
	*	2402	97.22	-	-	98	27.7	4.78	33.26	103	350	Р	V
	*	2402	96.54	-	-	97.32	27.7	4.78	33.26	103	350	Α	V
		2352.98	47.84	-26.16	74	48.67	27.74	4.72	33.29	101	140	Р	Н
		2388.82	38.6	-15.4	54	39.4	27.7	4.78	33.28	101	140	Α	Н
	*	2440	85.1	-	-	85.86	27.66	4.82	33.24	101	140	Р	Н
	*	2440	84.67	-	-	85.43	27.66	4.82	33.24	101	140	Α	Н
		2495.38	47.34	-26.66	74	48.08	27.61	4.85	33.2	101	140	Р	Н
BLE		2488.94	38.43	-15.57	54	39.19	27.61	4.85	33.22	101	140	Α	Н
CH 19 2440MHz		2320.78	47.69	-26.31	74	48.57	27.77	4.66	33.31	114	347	Р	V
244UIVII12		2375.94	38.21	-15.79	54	39.05	27.72	4.72	33.28	114	347	Α	V
	*	2440	96.83	-	-	97.59	27.66	4.82	33.24	114	347	Р	V
	*	2440	96.37	-	-	97.13	27.66	4.82	33.24	114	347	Р	V
		2486.63	47.32	-26.68	74	48.06	27.63	4.85	33.22	114	347	Р	V
		2484.25	38.21	-15.79	54	38.95	27.63	4.85	33.22	114	347	Α	V

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	*	2480	81.07	1	•	81.81	27.63	4.85	33.22	100	144	Р	Н
	*	2480	80.32		-	81.06	27.63	4.85	33.22	100	144	Α	Н
BLE CH 39 2480MHz		2484.44	53.36	-20.64	74	54.1	27.63	4.85	33.22	100	144	Р	Н
		2483.88	39.57	-14.43	54	40.31	27.63	4.85	33.22	100	144	Α	Н
	*	2480	95.19	-	-	95.93	27.63	4.85	33.22	120	332	Р	V
2400WITI2	*	2480	94.48		-	95.22	27.63	4.85	33.22	120	332	Р	V
		2483.64	66.35	-7.65	74	67.09	27.63	4.85	33.22	120	332	Р	٧
		2483.68	48.44	-5.56	54	49.18	27.63	4.85	33.22	120	332	Α	V
		1					<u> </u>		<u> </u>				

Remark

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

FCC RF Test Report

2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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		4804	41.02	-32.98	74	61.97	31.72	5.55	58.22	178	97	Р	Н
CH 00													
2402MHz		4804	40.29	-33.71	74	61.24	31.72	5.55	58.22	151	219	Р	V
		4880	37.64	-36.36	74	58.21	31.88	5.65	58.1	164	214	Р	Н
BLE		7320	45.15	-28.85	74	58.82	36.94	7.26	57.87	168	336	Р	Н
CH 19 2440MHz		4880	36.58	-37.42	74	57.15	31.88	5.65	58.1	150	258	Р	V
2440101112		7320	46.11	-27.89	74	59.78	36.94	7.26	57.87	152	309	Р	V
1		4960	43.51	-30.49	74	63.43	32.08	5.96	57.96	120	269	Р	Н
BLE		7440	45.62	-28.38	74	58.54	37.4	7.17	57.49	184	278	Р	Н
CH 39 2480MHz		4960	41.44	-32.56	74	61.36	32.08	5.96	57.96	118	289	Р	V
Z+OUIVIF1Z		7440	45	-29	74	57.92	37.4	7.17	57.49	158	273	Р	V
	1. No	o other spurio	us found.										

Remark

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^{2.} All results are PASS against Peak and Average limit line.

Emission below 1GHz 2.4GHz BLE (LF)

BLE Note Frequency Level Over Limit Read Antenna Cable Preamp Ant **Table** Peak Pol. Limit Line Level **Factor Factor** Pos Pos Loss Avg. (MHz) (dBµV/m) (dB) (dBµV/m) (dBµV) (dB/m) (dB) (dB) (cm) (deg) (P/A) (H/V) 30 21.54 -18.46 40 28.46 24.8 0.25 31.97 Н 320.03 Ρ 26.77 -19.2346 36.15 19.89 1.95 31.22 Н 480.08 26.8 -19.2 46 32.19 23.48 2.38 31.25 Ρ Н Ρ Н 640.13 27.01 -18.9946 29.29 26.16 2.8 31.24 800.18 31.39 -14.61 46 30.89 28.5 3.16 31.16 100 79 Ρ Н 2.4GHz 929.19 30.34 -15.66 28.7 29.47 31.27 Ρ Η 46 3.44 **BLE** 35.82 22.56 -17.44 40 32.19 21.98 0.37 31.98 Ρ ٧ LF 261.83 20 -26 46 29.23 20.27 1.74 31.24 Ρ ٧ 320.03 22.72 -23.28 46 32.1 19.89 1.95 31.22 Ρ ٧ Ρ ٧ 480.08 29.28 -16.7246 34.67 23.48 2.38 31.25 --Ρ ٧ 640.13 38.74 31.24 175 263 -7.26 46 41.02 26.16 2.8 Р ٧ 800.18 34.06 -11.94 46 33.56 28.5 3.16 31.16 No other spurious found. Remark 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

Sporton International (ShenZhen) Inc.

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

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WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level($dB\mu V/m$) =

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

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

For Peak Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable 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) + Cable 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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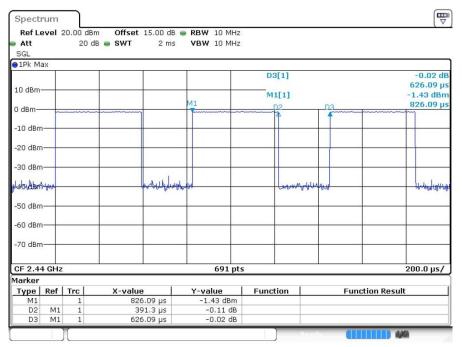
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Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
Bluetooth - LE	62.50	391.3	2.56	3kHz



Date: 8.OCT.2018 19:26:07

Sporton International (ShenZhen) Inc.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: I2AD83POD-3-1 Page Number : C1 of C1
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