FCC RF Test Report

APPLICANT : Motorola Solutions, Inc.

EQUIPMENT : NITRO Two-Way Radio

BRAND NAME : Motorola Solutions

MODEL NAME : SLN 1000

FCC ID AZ489FT7123

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Jan. 30, 2019 and testing was completed on Apr. 15, 2019. We, Sporton International (Kunshan) 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 (Kunshan) Inc., the test report shall not be reproduced except in full.



Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China

Page Number : 1 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

TABLE OF CONTENTS

RE	/ISIOI	N HISTORY	3
SUI	MMAR	RY OF TEST RESULT	4
1	GENI	ERAL DESCRIPTION	5
	1.1	Applicant	5
	1.2	Manufacturer	5
	1.3	Product Feature of Equipment Under Test	5
	1.4	Product Specification of Equipment Under Test	5
	1.5	Modification of EUT	5
	1.6	Testing Location	6
	1.7	Applicable Standards	6
2	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	
	2.1	Carrier Frequency Channel	7
	2.2	Test Mode	8
	2.3	Connection Diagram of Test System	9
	2.4	Support Unit used in test configuration and system	9
	2.5	EUT Operation Test Setup	10
	2.6	Measurement Results Explanation Example	10
3	TEST	「 RESULT	11
	3.1	6dB Bandwidth Measurement	11
	3.2	Output Power Measurement	14
	3.3	Power Spectral Density Measurement	15
	3.4	Conducted Band Edges and Spurious Emission Measurement	20
	3.5	Radiated Band Edges and Spurious Emission Measurement	
	3.6	AC Conducted Emission Measurement	29
	3.7	Antenna Requirements	31
4	LIST	OF MEASURING EQUIPMENT	32
5	UNC	ERTAINTY OF EVALUATION	33
AP	PEND	IX A. CONDUCTED TEST RESULTS	
API	PEND	IX B. AC CONDUCTED EMISSION TEST RESULT	
API	PEND	IX C. RADIATED SPURIOUS EMISSION	
AP	PEND	IX D. DUTY CYCLE PLOTS	
AP	PEND	IX E. SETUP PHOTOGRAPHS	

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 2 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No. : FR913001B

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR913001B	Rev. 01	Initial issue of report	May. 03, 2019

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 3 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No. : FR913001B

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	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 14.45 dB at 2483.510 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 8.46 dB at 0.516 MHz
3.7 15.203 & A		Antenna Requirement	N/A	Pass	-

Remark: Not required means after assessing, test items are not necessary to carry out.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 4 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

1 General Description

1.1 Applicant

Motorola Solutions, Inc.

8000 West Sunrise Blvd., Ft Lauderdale, Florida 33322, United States

1.2 Manufacturer

Motorola Solutions, Inc.

8000 West Sunrise Blvd., Ft Lauderdale, Florida 33322, United States

1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	NITRO Two-Way Radio			
Brand Name	Motorola Solutions			
Model Name	SLN 1000			
FCC ID	AZ489FT7123			
	LTE/GNSS			
FUT avenuente Dedice condication	WLAN 2.4GHz 802.11b/g/n HT20/HT40			
EUT supports Radios application	WLAN 5GHz 802.11a/n HT20/HT40			
	Bluetooth BR/EDR/LE			
	Conducted: 004401680685852			
IMEI Code	Conduction: 004401680685688			
	Radiation: 004401680682776			
HW Version	P2			
SW Version	KEY_BASE_USR_D05.00.66			
EUT Stage	Identical Prototype			

Report No.: FR913001B

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	0.91 dBm (0.0012 W)				
Antenna Type / Gain	Internal FPC Antenna with gain 0.29 dBi				
Type of Modulation	Bluetooth LE : GFSK				

1.5 Modification of EUT

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

 Sporton International (Kunshan) Inc.
 Page Number
 : 5 of 33

 TEL: 86-512-57900158
 Report Issued Date
 : May. 03, 2019

 FAX: 86-512-57900958
 Report Version
 : Rev. 01

FCC ID: AZ489FT7123 Report Template No.: BU5-FR15CBT4.0 Version 2.0

1.6 Testing Location

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

Test Site	Sporton International (Kunshan) Inc.						
	No. 1098, Pengxi North	Road, Kunshan Econom	únshan Economic Development Zone,				
Test Site Location	Jiangsu Province 215335, China						
Test Site Location	TEL: 86-512-57900158						
	FAX : 86-512-57900958						
	Sporton Site No.	FCC designation No.	FCC Test Firm Registration No.				
Test Site No.	TH01-KS						
rest Site No.	CO01-KS	CN5013	630927				
	03CH04-KS	03CH04-KS					

1.7 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 v05r01
- 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.

Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 6 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	0	2402	21	2444
	1	2404	22	2446
	2	2406	23	2448
	3	2408	24	2450
	4	2410	25	2452
	5	2412	26	2454
	6	2414	27	2456
	7	2416	28	2458
	8	2418	29	2460
	9	2420	30	2462
2400-2483.5 MHz	10	2422	31	2464
	11	2424	32	2466
	12	2426	33	2468
	13	2428	34	2470
	14	2430	35	2472
	15	2432	36	2474
	16	2434	37	2476
	17	2436	38	2478
	18	2438	39	2480
	19	2440	-	-
	20	2442	-	-

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 7 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

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_1Mbps
TCs	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps
108	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps
Radiated	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
AC	
Conducted	Mode 1: LTE Band 48 Idle + Bluetooth Link + WLAN Link (2.4G) + Adapter 3 + Earphone 4
Emission	

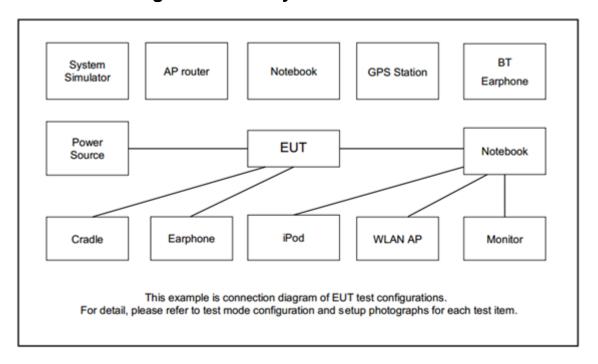
Remark:

- 1. For radiated test, pre-scan are performed with Adapter 1/2/3 and stand-alone mode, Earphone 5 is from Part15B worst case, and only the worst case (Adapter 1 + Earphone 5) is reported.
- 2. For AC conducted test, the Adapter 3 + Earphone 4 are from Part 15B worst case.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 8 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

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	R&S	CMU 200	N/A	N/A	Unshielded,1.8m
2.	Notebook	Lenovo	G480	PRC4	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
3.	Router	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	shielded cable DC O/P1.8m , Unshielded AC I/P1.8m

Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 9 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

2.5 EUT Operation Test Setup

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

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 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 5.80 dB.

 $Offset(dB) = RF \ cable \ loss(dB) \ .$ = 5.80 (dB) Report No.: FR913001B

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.

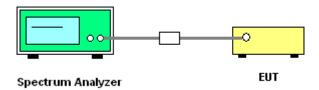
3.1.2 Measuring Instruments

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. 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



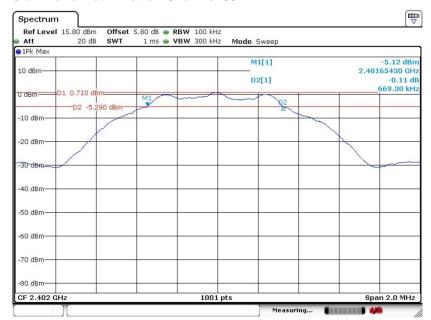
TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 11 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

6 dB Bandwidth Plot on Channel 00

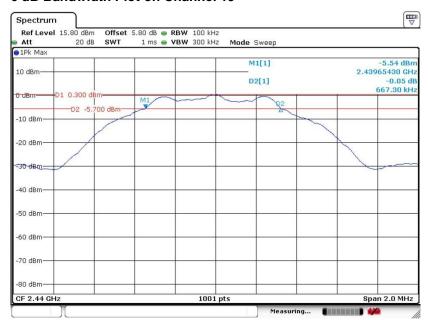


Date: 28.MAR.2019 05:04:41

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 12 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

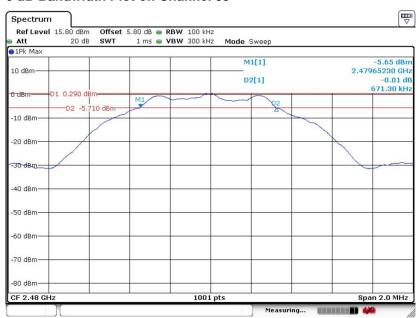
Report No.: FR913001B

6 dB Bandwidth Plot on Channel 19



Date: 28.MAR.2019 05:12:11

6 dB Bandwidth Plot on Channel 39



Date: 28.MAR.2019 05:15:19

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 13 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

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.

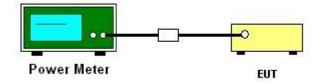
3.2.2 Measuring Instruments

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. 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.

Report No.: FR913001B

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. 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.

Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 15 of 33

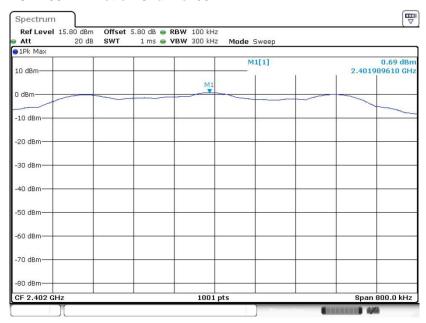
Report Issued Date : May. 03, 2019

Report Version : Rev. 01

Report No.: FR913001B

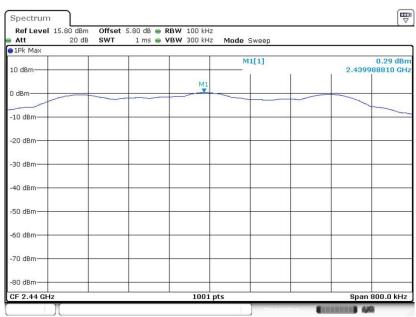
3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on Channel 00



Date: 28.MAR.2019 05:09:16

PSD 100kHz Plot on Channel 19



Date: 28.MAR.2019 05:12:47

Sporton International (Kunshan) Inc.

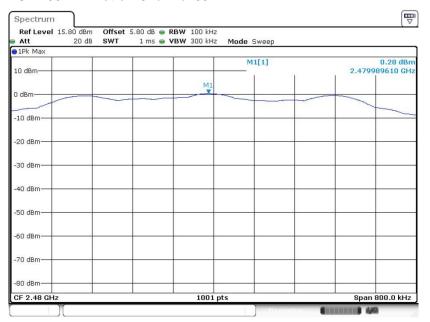
TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 16 of 33

Report Issued Date : May. 03, 2019

Report Version : Rev. 01

Report No.: FR913001B

PSD 100kHz Plot on Channel 39



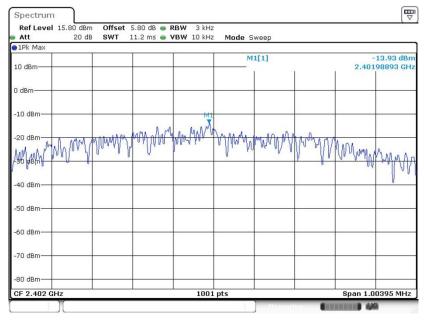
Date: 28.MAR.2019 05:15:57

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 17 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

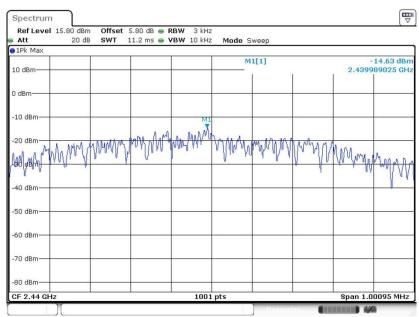
3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on Channel 00



Date: 28.MAR.2019 05:05:42

PSD 3kHz Plot on Channel 19



Date: 28.MAR.2019 05:12:30

Sporton International (Kunshan) Inc.

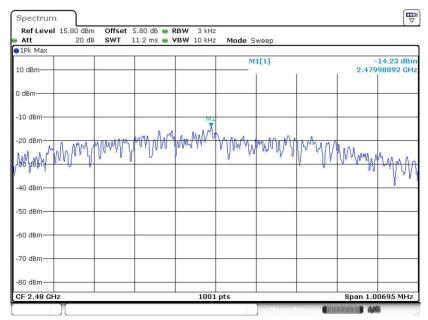
TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123

: 18 of 33 Page Number Report Issued Date: May. 03, 2019

Report No.: FR913001B

Report Version : Rev. 01

PSD 3kHz Plot on Channel 39



Date: 28.MAR.2019 05:15:40

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 19 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

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.

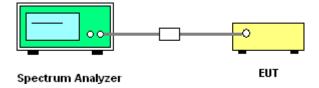
3.4.2 Measuring Instruments

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. 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



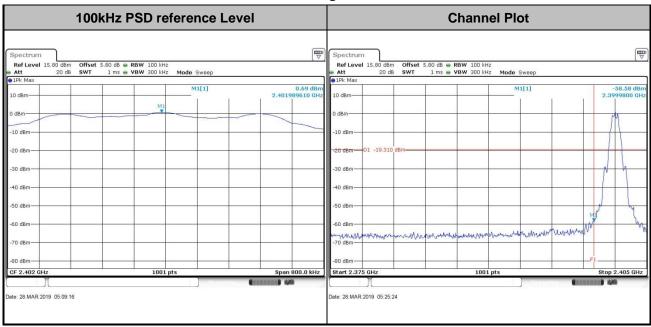
TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 20 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

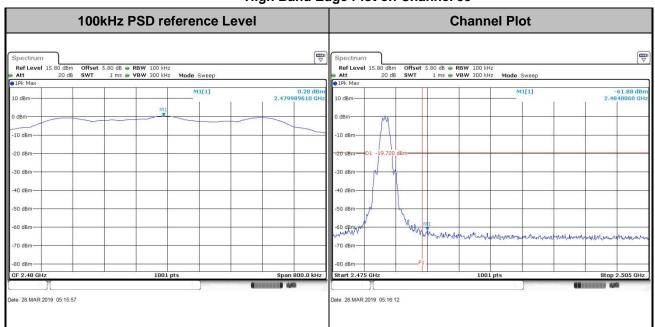
3.4.5 Test Result of Conducted Band Edges Plots

Low Band Edge Plot on Channel 00

Report No.: FR913001B



High Band Edge Plot on Channel 39



TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 21 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

3.4.6 Test Result of Conducted Spurious Emission Plots

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



TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 22 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

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



TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 23 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

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

Report No.: FR913001B

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



TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 24 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.5.2 Measuring Instruments

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

Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 25 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

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

Report No.: FR913001B

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.
- 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.

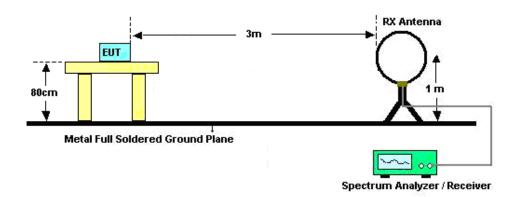
TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 26 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

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

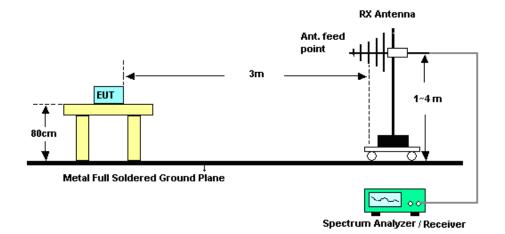
Report No.: FR913001B

3.5.4 Test Setup

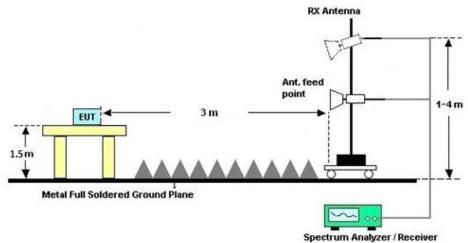
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 27 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

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

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

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

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 28 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

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.

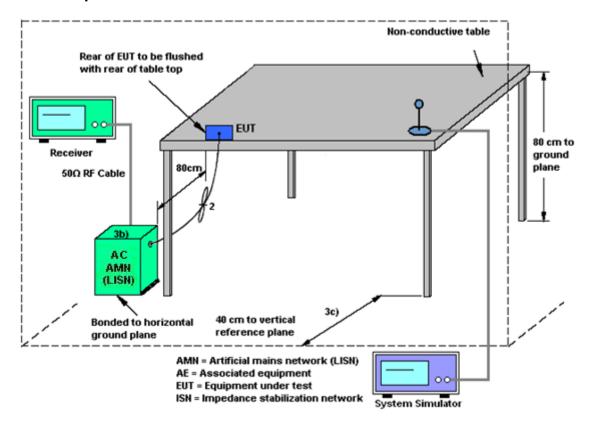
3.6.3 Test Procedures

- 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.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 29 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 30 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

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.

Page Number : 31 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

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

Report No.: FR913001B

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 07, 2018	Mar. 28, 2019	Aug. 06, 2019	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 14, 2019	Mar. 28, 2019	Jan. 13, 2020	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 14, 2019	Mar. 28, 2019	Jan. 13, 2020	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz;Max 30dBm	Oct. 12, 2018	Apr. 12, 2019	Oct. 11, 2019	Radiation (03CH04-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY551502 08	10Hz-44GHz	Apr. 17, 2018	Apr. 12, 2019	Apr. 16, 2019	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 19.2018	Apr. 12, 2019	Oct. 17, 2019	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 28, 2018	Apr. 12, 2019	Dec. 27, 2019	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1648	1GHz~18GHz	Jan. 27, 2019	Apr. 12, 2019	Jan. 26, 2020	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2019	Apr. 12, 2019	Jan. 04, 2020	Radiation (03CH04-KS)
Amplifier	Burgeon	BPA-530	102219	0.01MHz ~3000MHz	Nov. 19, 2018	Apr. 12, 2019	Nov. 18, 2019	Radiation (03CH04-KS)
Amplifier	MITEQ	TTA1840-35-HG	2014749	18~40GHz	Jan. 14, 2019	Apr. 12, 2019	Jan. 13, 2020	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-001018 00-30-10P	2025788	1Ghz-18Ghz	Apr. 17, 2018	Apr. 12, 2019	Apr. 16, 2019	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY532703 19	500MHz~26.5GHz	Oct. 12, 2018	Apr. 12, 2019	Oct. 11, 2019	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Apr. 12, 2019	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Apr. 12, 2019	NCR	Radiation (03CH04-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 19, 2018	Apr. 15, 2019	Apr. 18, 2019	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 12, 2018	Apr. 15, 2019	Oct. 11, 2019	Conduction (CO01-KS)
AC LISN (for auxiliary	MessTec	AN3016	060105	9kHz~30MHz	Nov. 19, 2018	Apr. 15, 2019	Nov. 18, 2019	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2018	Apr. 15, 2019	Oct. 11, 2019	Conduction (CO01-KS)

NCR: No Calibration Required

Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 32 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

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

Report No.: FR913001B

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	2.9dB
of 95% $(U = 2Uc(y))$	2.900

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

Measuring Uncertainty for a Level of Confidence	e 4.9dB
of 95% (U = 2Uc(y))	4.305

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

Measurin	g Uncertainty for a Level of Confidence	5.0dB
	of 95% (U = 2Uc(y))	5.00B

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

Measuring Uncertainty for a Level of Confidence	5.0dB
of 95% (U = 2Uc(y))	5.00B

Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : 33 of 33
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

Appendix A. Conducted Test Results

Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : A1 of A1
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

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

Report No.: FR913001B

Report Number : FR913001B

Bluetooth Low Energy

Test Engineer:	Weller Liu	Temperature:	22~25	°C
Test Date:	2019/3/28	Relative Humidity:	51~55	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	1Mbps	1	0	2402	1.05	0.67	0.50	Pass
BLE	1Mbps 1		19	2440	1.05	0.67	0.50	Pass
BLE	1Mbps	1	39	2480	1.05	0.67	0.50	Pass

TEST RESULTS DATA

Peak Power Table

Mod.	Data Rate	N TX	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	0.91	30.00	0.29	1.20	36.00	Pass
BLE	1Mbps	1	19	2440	0.56	30.00	0.29	0.85	36.00	Pass
BLE	1Mbps	1	39	2480	0.32	30.00	0.29	0.61	36.00	Pass

TEST RESULTS DATA Average Power Table

<u>(Reporting Only)</u>

Мо	d.	Data Rate	N⊤x	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BL	E	1Mbps	1	0	2402	1.88	0.77
BL	E	1Mbps	1	19	2440	1.88	0.42
BL	E	1Mbps	1	39	2480	1.88	0.27

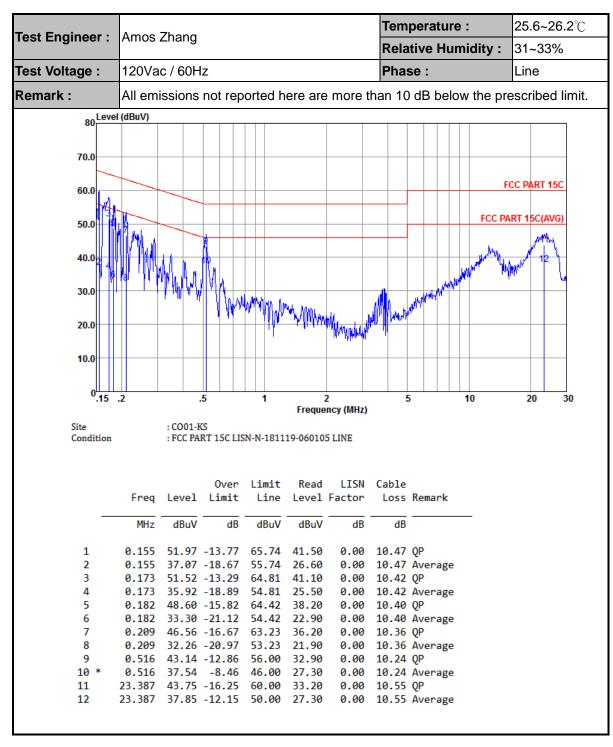
TEST RESULTS DATA

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	0.69	-13.93	0.29	8.00	Pass
BLE	1Mbps	1	19	2440	0.29	-14.63	0.29	8.00	Pass
BLE	1Mbps	1	39	2480	0.28	-14.23	0.29	8.00	Pass

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

Appendix B. AC Conducted Emission Test Results



TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : B1 of B2
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B



Temperature: **25.6~26.2**℃ Test Engineer: Amos Zhang Relative Humidity: 31~33% Test Voltage: 120Vac / 60Hz Phase: Neutral Remark: All emissions not reported here are more than 10 dB below the prescribed limit. 80 Level (dBuV) 70.0 FCC PART 15C 60.0 FCC PART 15C(AVG) 50.0 40.0 30.0 20.0 10.0 .5 .15 Frequency (MHz) Site : CO01-KS : FCC PART 15C LISN-N-181119-060105 NEUTRAL Condition Over Limit Read LISN Cable Loss Remark Freq Level Limit Line Level Factor MHz dBuV dB dBuV dBuV dB dB 0.160 52.53 -12.94 65.47 41.90 0.18 10.45 QP 0.160 36.53 -18.94 55.47 25.90 0.18 10.45 Average 0.171 51.10 -13.80 64.90 40.49 0.18 10.43 QP 0.171 35.80 -19.10 54.90 25.19 0.18 10.43 Average 0.17 10.39 QP 5 0.188 46.16 -17.95 64.11 35.60 0.17 10.39 Average 0.188 31.46 -22.65 54.11 20.90 0.207 45.63 -17.69 63.32 35.10 0.17 10.36 QP 0.207 31.73 -21.59 53.32 21.20 0.17 10.36 Average q 0.252 40.70 -20.99 61.69 30.20 0.17 10.33 QP 0.17 10.33 Average 10 0.252 27.70 -23.99 51.69 17.20 11 0.513 42.58 -13.42 56.00 32.19 0.15 10.24 QP 0.513 37.28 -8.72 46.00 26.89 0.15 10.24 Average

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : B2 of B2
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B

Appendix C. Radiated Spurious Emission

15C 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)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2370.06	46.7	-27.3	74	48.54	25.55	5.61	33	389	330	Р	Н
		2373.31	36.02	-17.98	54	37.86	25.55	5.61	33	389	330	Α	Н
	*	2402	86.61	-	-	88.41	25.6	5.63	33.03	389	330	Р	Н
BLE CH 00	*	2402	85.97	-	-	87.77	25.6	5.63	33.03	389	330	Α	Н
2402MHz		2371.75	46.36	-27.64	74	48.2	25.55	5.61	33	393	205	Р	V
2402111112		2383.45	36.07	-17.93	54	37.91	25.55	5.61	33	393	205	Α	V
	*	2402	84.18	-	-	85.98	25.6	5.63	33.03	393	205	Р	V
	*	2402	83.61	-	-	85.41	25.6	5.63	33.03	393	205	Α	V
	*	2480	92.74	-	-	92.98	26.53	5.72	32.49	146	128	Р	Н
	*	2480	92.05	-	-	92.29	26.53	5.72	32.49	146	128	Α	I
		2483.74	50.71	-23.29	74	50.95	26.53	5.72	32.49	146	128	Р	Н
BLE CH 39		2483.51	39.55	-14.45	54	39.79	26.53	5.72	32.49	146	128	Α	Н
2480MHz	*	2480	88.73	-	-	88.97	26.53	5.72	32.49	100	2	Р	V
248UMHZ -	*	2480	88.14	-	-	88.38	26.53	5.72	32.49	100	2	Α	V
		2486.44	47.67	-26.33	74	47.91	26.53	5.72	32.49	100	2	Р	V
		2483.51	38.29	-15.71	54	38.53	26.53	5.72	32.49	100	2	Α	V
				•		•			•				

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123

Page Number : C1 of C5 Report Issued Date: May. 03, 2019

Report No.: FR913001B

Report Version : Rev. 01

Remark

1. No other spurious found.

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

15C 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)	$(dB\mu V/m)$	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE		4806	37.2	-36.8	74	60.02	30.88	8.43	62.13	150	360	Р	Н
CH 00 2402MHz		4806	36.36	-37.64	74	59.18	30.88	8.43	62.13	150	0	Р	V
		4878	37.07	-36.93	74	59.7	31.05	8.43	62.11	150	360	Р	Н
BLE CH 19		7320	41.93	-32.07	74	59.06	35.56	10.08	62.77	150	360	Р	Н
2440MHz		4880	38.44	-35.56	74	61.07	31.05	8.43	62.11	150	0	Р	V
244011112		7320	40.89	-33.11	74	58.02	35.56	10.08	62.77	150	0	Р	V
DI E		4962	36.89	-37.11	74	60.87	31.27	8.44	63.69	150	360	Р	Н
BLE CH 39		7440	40.35	-33.65	74	58.75	35.8	10.18	64.38	150	360	Р	Н
2480MHz		4960	37.81	-36.19	74	61.79	31.27	8.44	63.69	150	0	Р	V
240011112		7440	40.45	-33.55	74	58.85	35.8	10.18	64.38	150	0	Р	V

Remark

Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123

Page Number : C2 of C5 Report Issued Date: May. 03, 2019

Report No.: FR913001B

Report Version : Rev. 01

No other spurious found.

All results are PASS against Peak and Average limit line.

15C 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	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		35.82	17.21	-22.79	40	28.82	20.84	0.51	32.96	100	0	Р	Н
		143.49	16.95	-26.55	43.5	31.66	17.03	1.21	32.95			Р	Н
		422.85	19.34	-26.66	46	28.32	22.02	2.17	33.17			Р	Н
		563.5	22.49	-23.51	46	29.14	24.16	2.51	33.32			Р	Н
2.4GHz		659.53	23.08	-22.92	46	28.86	24.78	2.74	33.3			Р	Н
BLE LF		967.99	25.78	-28.22	54	26.74	27.11	3.48	31.55			Р	Н
CH 39		30	18.41	-21.59	40	26.73	24.2	0.46	32.98			Р	V
2480MHz		431.58	19.47	-26.53	46	28.3	22.17	2.19	33.19			Р	V
- 10011111		623.64	22.69	-23.31	46	28.7	24.67	2.65	33.33			Р	V
		771.08	23.65	-22.35	46	27.9	25.75	3.06	33.06			Р	V
		914.64	25.29	-20.71	46	27.42	26.63	3.38	32.14	100	0	Р	V
		991.27	26.15	-27.85	54	26.66	27.32	3.52	31.35			Р	V
Remark		o other spurio		st limit li	ine.		,		'				•

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123

Page Number : C3 of C5 Report Issued Date: May. 03, 2019 Report Version : Rev. 01

Report No.: FR913001B

Note symbol

	Fundamental Frequency which can be ignored. However, the level of any					
*	unwanted emissions shall not exceed the level of the fundamental frequency per					
	15.209(c).					
!	Test result is over limit line.					
P/A	Peak or Average					
H/V	Horizontal or Vertical					

Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : C4 of C5
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No. : FR913001B

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

Report No.: FR913001B

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:

- 1. 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($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 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".

 Sporton International (Kunshan) Inc.
 Page Number
 : C5 of C5

 TEL: 86-512-57900158
 Report Issued Date
 : May. 03, 2019

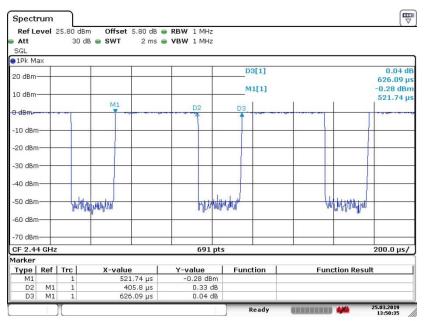
 FAX: 86-512-57900958
 Report Version
 : Rev. 01

FCC ID: AZ489FT7123 Report Template No.: BU5-FR15CBT4.2/5.0 Version 2.0

Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting	
Bluetooth LE v4.0	64.81	0.406	2.464	2.7KHz	

Bluetooth LE v4.2



TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: AZ489FT7123 Page Number : D1 of D1
Report Issued Date : May. 03, 2019
Report Version : Rev. 01

Report No.: FR913001B