FCC RF Test Report

APPLICANT : Satco Products Inc.

EQUIPMENT: Smart Control Panel-5 inch

MODEL NAME : \$11575

FCC ID : 2BNMQ-S11575

STANDARD : 47 CFR Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

TEST DATE(S) : Jul. 28, 2023 ~ Aug. 28, 2023

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

JasonJia

Approved by: Jason Jia





Report No.: FR372501-03B

Sporton International Inc. (Kunshan)

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

Sporton International Inc. (Kunshan)

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: Rev. 01

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR372501-03B	Rev. 01	Initial issue of report	Apr. 09, 2025

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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)	Output Power	≤ 30dBm	Pass	-
3.3	15.247(e) Power Spectral Density		≤ 8dBm/3kHz	Pass	-
3.4	3.4 15.247(d) Conducted Band Edges and S		≤ 20dBc	Pass	-
3.5	3.5 Radiated Band Edges and S Emission		15.209(a) & 15.247(d)	Pass	Under limit 3.39 dB at 2483.52 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 9.35 dB at 0.476 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Note: This is a change FCC ID report. Since no changes have been made to this device, therefore, all test cases were leveraged from original report (FCC ID: 2A789-TPP05, report number FR372501B).

Conformity Assessment Condition:

- 1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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1 General Description

1.1 Applicant

Satco Products Inc.

110 Heartland Blvd. Brentwood, NY 11717, USA

1.2 Manufacturer

Satco Products Inc.

110 Heartland Blvd. Brentwood, NY 11717, USA

1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Smart Control Panel-5 inch			
Model Name	S11575			
FCC ID	2BNMQ-S11575			
SN Code	Conducted: NSZEE18MK00008 Conduction: NSZEE18MK0005A Radiation: NSZEE18MK00008			

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	2405 MHz ~ 2480 MHz			
Number of Channels	16			
Channel Spacing	5 MHz			
Carrier Frequency of Each Channel	2405 MHz, 2410MHz,, 2480MHz			
Maximum Output Power to Antenna	17.29 dBm (0.0536 W)			
99% Occupied Bandwidth	2.25 MHz			
Antenna Type / Gain	IPEX Antenna type with gain -0.95 dBi			
Type of Modulation	QPSK/O-QPSK			

1.5 Modification of EUT

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

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1.6 Testing Location

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

Test Firm	Sporton International Inc. (Kunshan)				
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone				
Test Site Location	Jiangsu Province 215300 People's Republic of China				
	TEL: +86-512-57900158				
	Sporton Site No.	FCC Designation No.	FCC Test Firm		
Test Site No.	Sporton Site No.	rec besignation No.	Registration No.		
rest site No.	CO01-KS 03CH07-KS TH01-KS	CN1257	314309		

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH07-KS	AUDIX	E3	210616
2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

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

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05
- 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)
	11	2405	19	2445
	12	2410	20	2450
	13	2415	21	2455
2400-2483.5 MHz	14	2420	22	2460
2400-2463.5 IVITZ	15	2425	23	2465
	16	2430	24	2470
	17	2435	25	2475
	18	2440	26	2480

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 (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (X plane as worst plane) from all possible combinations.
- 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	250kbps / Zigbee				
	Mode 1: Zigbee Tx CH11_2405 MHz				
Conducted	Mode 2: Zigbee Tx CH18_2440 MHz				
TCs	Mode 3: Zigbee Tx CH25_2475 MHz				
	Mode 4: Zigbee Tx CH26_2480 MHz				
	Mode 1: Zigbee Tx CH11_2405 MHz				
Radiated	Mode 2: Zigbee Tx CH18_2440 MHz				
TCs	Mode 3: Zigbee Tx CH25_2475 MHz				
	Mode 4: Zigbee Tx CH26_2480 MHz				
AC Conducted Emission	Mode 1: Zigbee Link + WLAN Link(2.4G) + L1+L2 light link + RS485 Link + AC Power				

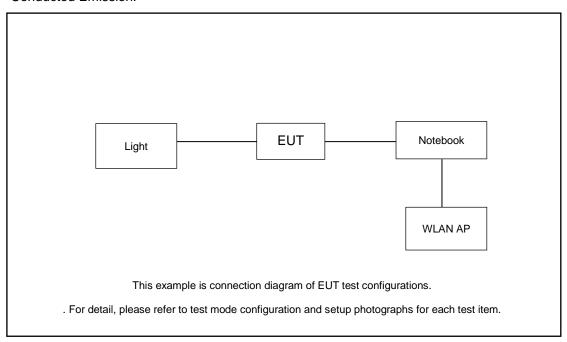
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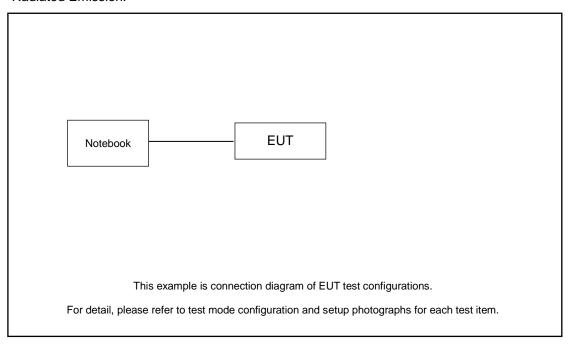
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2.3 Connection Diagram of Test System

Conducted Emission:



Radiated Emission:



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2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC
1						O/P 1.8m ,
1.						Unshielded AC I/P
						cable 1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
3.	Light	NA	NA	NA	NA	NA
4.	AC Power	NA	NA	NA	NA	NA

2.5 EUT Operation Test Setup

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

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.80 dB and 10dB attenuator.

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ = 5.80 + 10 = 15.80 (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.

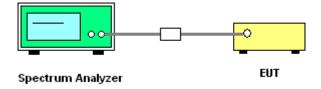
3.1.2 Measuring Instruments

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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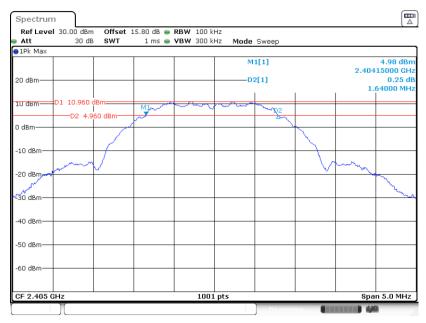
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3.1.5 Test Result of 6dB Bandwidth

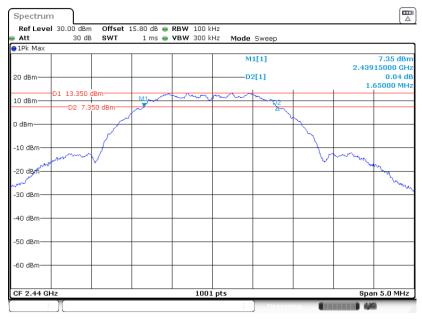
Test data refer to Appendix A.

6 dB Bandwidth Plot on Channel 11



Date: 28.JUL.2023 19:07:29

6 dB Bandwidth Plot on Channel 18



Date: 28.JUL.2023 19:11:39

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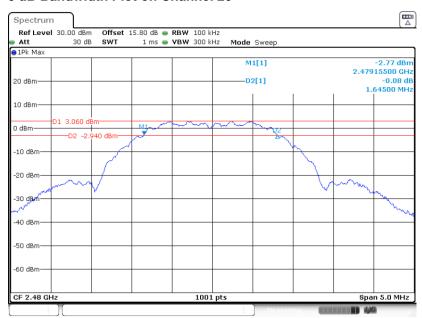
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6 dB Bandwidth Plot on Channel 25



Date: 2.AUG.2023 15:36:26

6 dB Bandwidth Plot on Channel 26



Date: 28.JUL.2023 19:14:35

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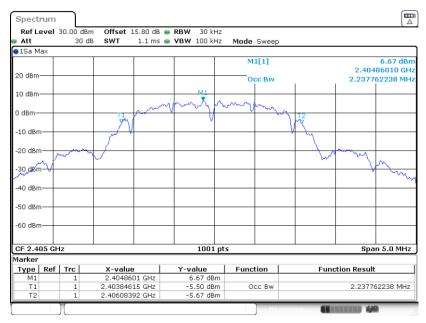
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3.1.6 Test Result of 99% Occupied Bandwidth

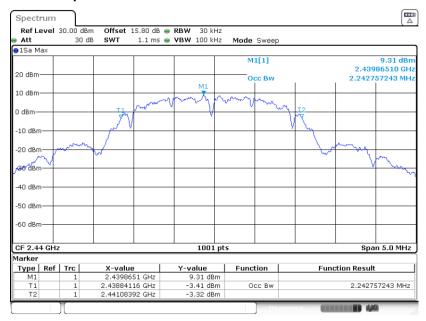
Test data refer to Appendix A.

99% Bandwidth Plot on Channel 11



Date: 28.JUL.2023 19:09:15

99% Occupied Bandwidth Plot on Channel 18



Date: 28.JUL.2023 19:13:06

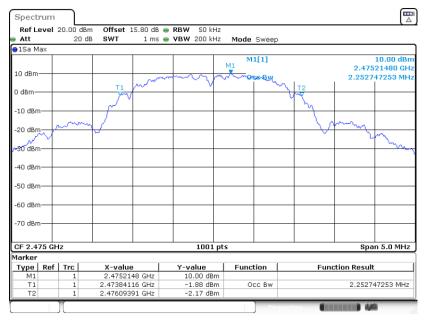
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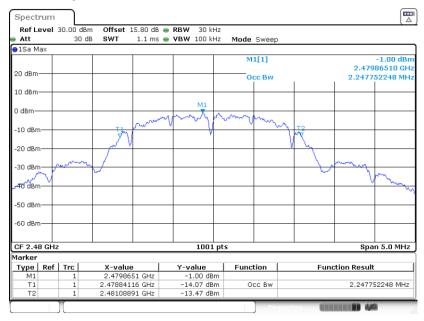
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99% Occupied Bandwidth Plot on Channel 25



Date: 2.AUG.2023 15:38:13

99% Occupied Bandwidth Plot on Channel 26



Date: 28.JUL.2023 19:16:21

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 Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

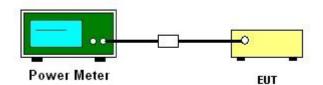
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

- The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1
 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Test data refers to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Test data refers 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.

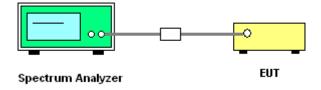
3.3.2 Measuring Instruments

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

Test data refers to Appendix A.

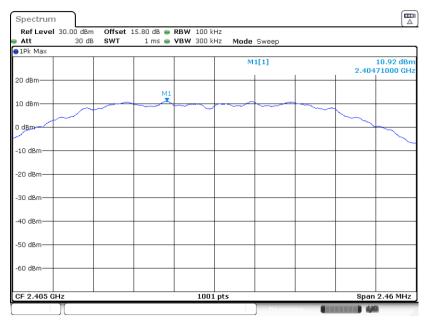
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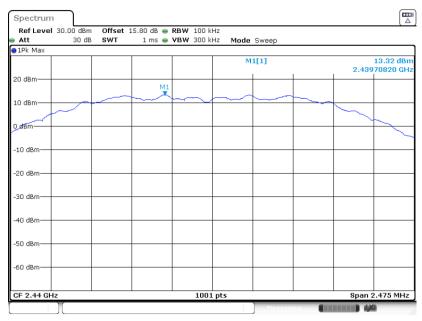
3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on Channel 11



Date: 28.JUL.2023 19:08:07

PSD 100kHz Plot on Channel 18



Date: 28.JUL.2023 19:12:17

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PSD 100kHz Plot on Channel 25



Date: 2.AUG.2023 15:37:04

PSD 100kHz Plot on Channel 26



Date: 28.JUL.2023 19:15:13

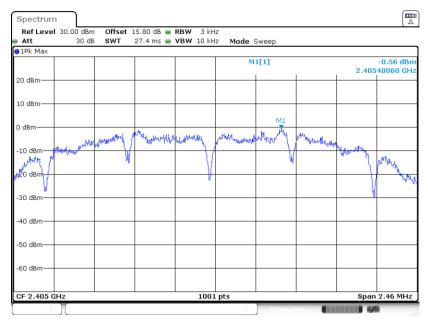
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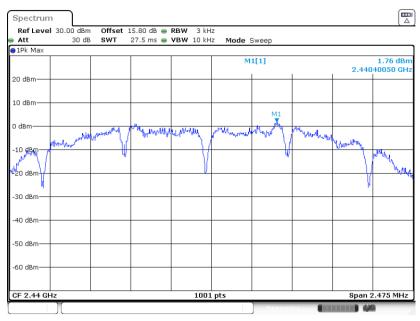
3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on Channel 11



Date: 28.JUL.2023 19:07:48

PSD 3kHz Plot on Channel 18



Date: 28.JUL.2023 19:11:58

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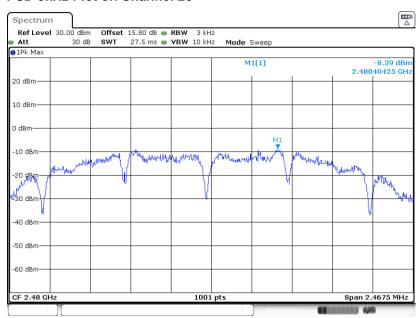
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PSD 3kHz Plot on Channel 25



Date: 25.AUG.2023 16:52:20

PSD 3kHz Plot on Channel 26



Date: 28.JUL.2023 19:14:54

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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.

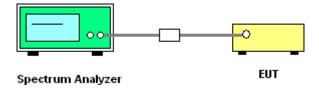
3.4.2 Measuring Instruments

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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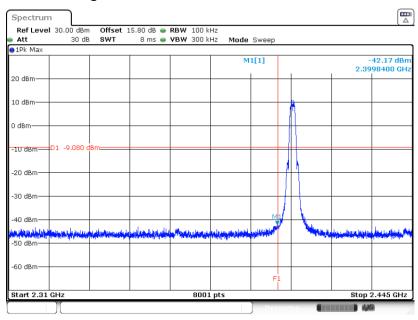
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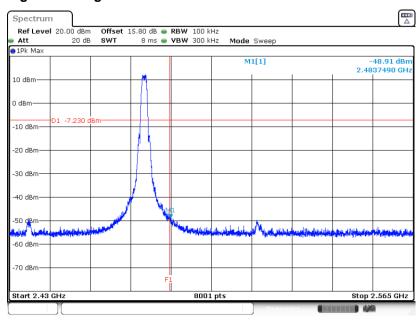
3.4.5 Test Result of Conducted Band Edges Plots

Low Band Edge Plot on Channel 11



Date: 28.JUL.2023 19:09:40

High Band Edge Plot on Channel 25



Date: 2.AUG.2023 15:37:23

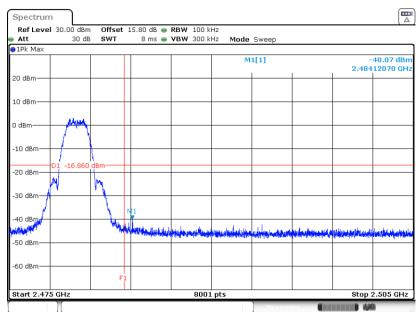
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High Band Edge Plot on Channel 26



Date: 28.JUL.2023 19:16:43

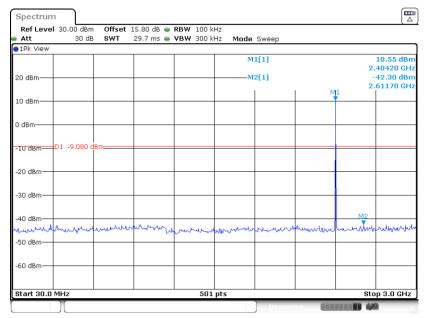
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3.4.6 Test Result of Conducted Spurious Emission Plots

Conducted Spurious Emission Plot on

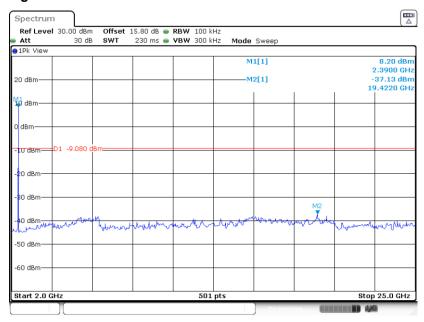
Zigbee Channel 11



Date: 28.JUL.2023 19:08:46

Conducted Spurious Emission Plot on

Zigbee Channel 11



Date: 28.JUL.2023 19:09:06

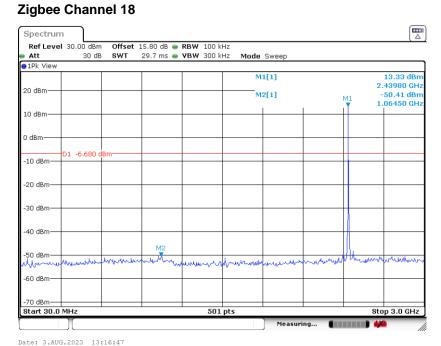
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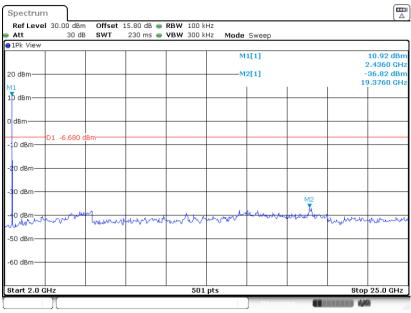
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Conducted Spurious Emission Plot on



Conducted Spurious Emission Plot on

Zigbee Channel 18



Date: 28.JUL.2023 19:12:58

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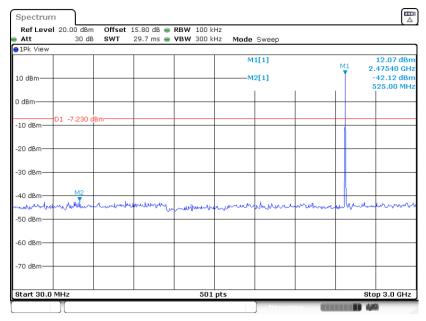
 TEL: +86-512-57900158
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Conducted Spurious Emission Plot on

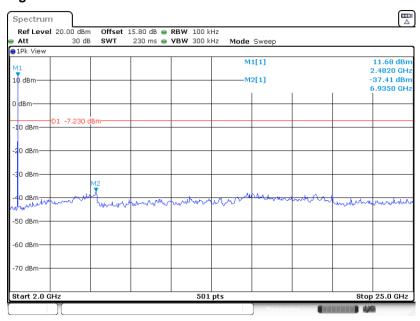
Zigbee Channel 25



Date: 2.AUG.2023 15:37:44

Conducted Spurious Emission Plot on

Zigbee Channel 25



Date: 2.AUG.2023 15:38:04

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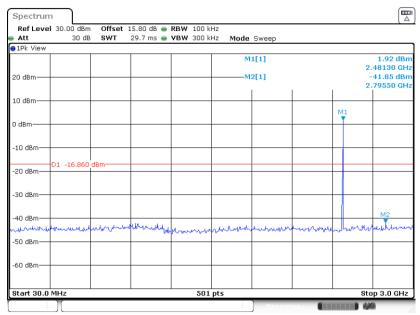
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Conducted Spurious Emission Plot on

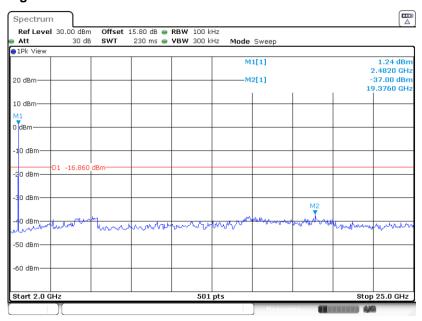
Zigbee Channel 26



Date: 28.JUL.2023 19:15:52

Conducted Spurious Emission Plot on

Zigbee Channel 26



Date: 28.JUL.2023 19:16:12

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3.5 Spurious Emission Measurement in the Restricted Band

3.5.1 Limit of Spurious Emission Measurement in the Restricted Band

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
- For conducted spurious emission measurement in the restricted band, 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.
- 7. For measurement below 1GHz, if the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector 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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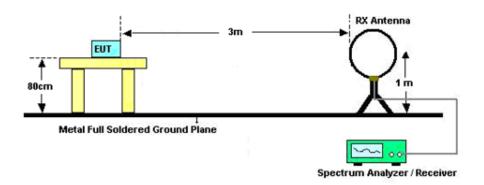
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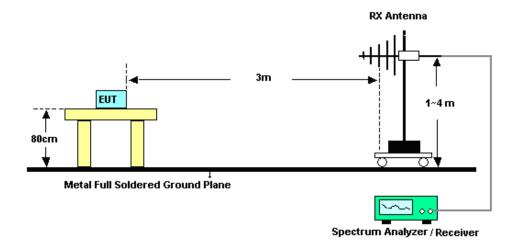
Report Template No.: BU5-FR15CBT4.0 Version 2.0

3.5.4 Test Setup

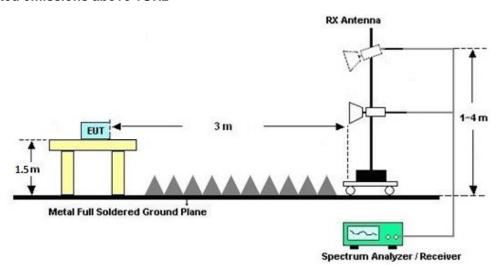
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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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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3.5.6 Test Results of Radiated Spurious at Band Edges

Please refer to Appendix C.

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

Please refer to Appendix C.

3.5.8 Duty Cycle

Please refer to Appendix D.

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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.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

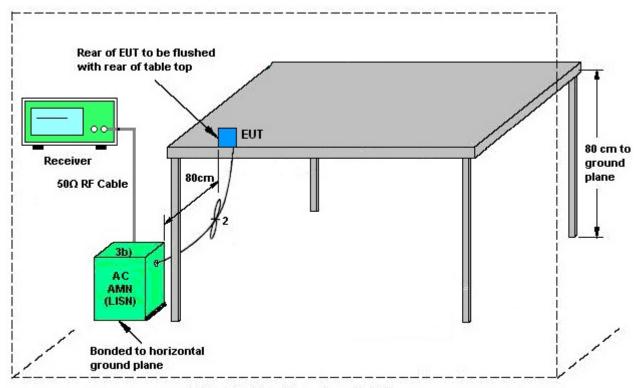
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3.6.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

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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List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 16, 2023	Aug. 11, 2023	May 15, 2024	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Aug. 11, 2023	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 16, 2023	Aug. 11, 2023	May 15, 2024	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Aug. 11, 2023	Oct. 11, 2023	Conduction (CO01-KS)
Spectrum Analyzer	R&S	FSV30	101338	10Hz~30GHz	May 16, 2023	Jul. 28, 2023~ Aug. 02, 2023	May 15, 2024	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Jul. 28, 2023~ Aug. 02, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Jul. 28, 2023~ Aug. 02, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	Jul. 28, 2023~ Aug. 02, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	1339163	300MHz~40GHz	Oct. 12, 2022	Jul. 28, 2023~ Aug. 02, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1435004	50MHz Bandwidth	Jan. 05, 2023	Jul. 28, 2023~ Aug. 02, 2023	Jan. 04, 2024	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Max 30dBm	Oct. 12, 2022	Jul. 28, 2023~ Aug. 28, 2023	Oct. 11, 2023	Radiation (03CH07-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY553705 28	10Hz-44G,MAX 30dB	Oct. 12, 2022	Jul. 28, 2023~ Aug. 28, 2023	Oct. 11, 2023	Radiation (03CH07-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 22, 2022	Jul. 28, 2023~ Aug. 28, 2023	Sep. 21, 2023	Radiation (03CH07-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz-1GHz	Aug. 12, 2023	Jul. 28, 2023~ Aug. 28, 2023	Aug. 11, 2024	Radiation (03CH07-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218642	1GHz~18GHz	Apr. 06, 2023	Jul. 28, 2023~ Aug. 28, 2023	Apr. 05, 2024	Radiation (03CH07-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz-18Ghz	Oct. 12, 2022	Jul. 28, 2023~ Aug. 28, 2023	Oct. 11, 2023	Radiation (03CH07-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Oct. 17, 2022	Jul. 28, 2023~ Aug. 28, 2023	Oct. 16, 2023	Radiation (03CH07-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 05, 2023	Jul. 28, 2023~ Aug. 28, 2023	Jan. 04, 2024	Radiation (03CH07-KS)
Amplifier	EM	EM01G18GA	060834	1Ghz-18Ghz	Oct. 12, 2022	Jul. 28, 2023~ Aug. 28, 2023	Oct. 11, 2023	Radiation (03CH07-KS)
Amplifier	EM	EM18G40GG A	060851	18~40GHz	Jan. 05, 2023	Jul. 28, 2023~ Aug. 28, 2023	Jan. 04, 2024	Radiation (03CH07-KS)
AC Power Source	Chroma	61601	616010002 473	N/A	NCR	Jul. 28, 2023~ Aug. 28, 2023	NCR	Radiation (03CH07-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Jul. 28, 2023~ Aug. 28, 2023	NCR	Radiation (03CH07-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Jul. 28, 2023~ Aug. 28, 2023	NCR	Radiation (03CH07-KS)

NCR: No Calibration Required

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5 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Test Item	Uncertainty		
Conducted Power	±0.46 dB		
Conducted Emissions	±2.26 dB		
Occupied Channel Bandwidth	±0.001 %		
Conducted Power Spectral Density	±0.88 dB		

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

Measuring Uncertainty for a Level of Confidence	2.04 40
of 95% (U = 2Uc(y))	2.94 dB

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

	-
Measuring Uncertainty for a Level of Confidence	6.20 dB
of 95% (U = 2Uc(y))	0.20 UB

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

Measuring Uncertainty for a Level of Confidence	4.86 dB
of 95% (U = 2Uc(y))	4.00 UB

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

Measuring Uncertainty for a Level of Confidence	5.24 dB	
of 95% (U = 2Uc(y))	5.24 UB	

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

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Appendix A. Conducted Test Results

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Test Engineer:	Jacob Zhang	Temperature:	20~26	°C
Test Date:	2023/7/28~2023/8/2	Relative Humidity:	40~51	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
Zigbee	250K	1	11	2405	2.24	1.64	0.50	Pass
Zigbee	250K	1	18	2440	2.24	1.65	0.50	Pass
Zigbee	250K	1	25	2475	2.25	1.63	0.50	Pass
Zigbee	250K	1	26	2480	2.25	1.65	0.50	Pass

TEST RESULTS DATA

Peak Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
Zigbee	250K	1	11	2405	14.95	30.00	-0.95	14.00	36.00	Pass
Zigbee	250K	1	18	2440	17.29	30.00	-0.95	16.34	36.00	Pass
Zigbee	250K	1	25	2475	15.47	30.00	-0.95	14.52	36.00	Pass
Zigbee	250K	1	26	2480	6.89	30.00	-0.95	5.94	36.00	Pass

TEST RESULTS DATA Average Power Table (Reporting Only)

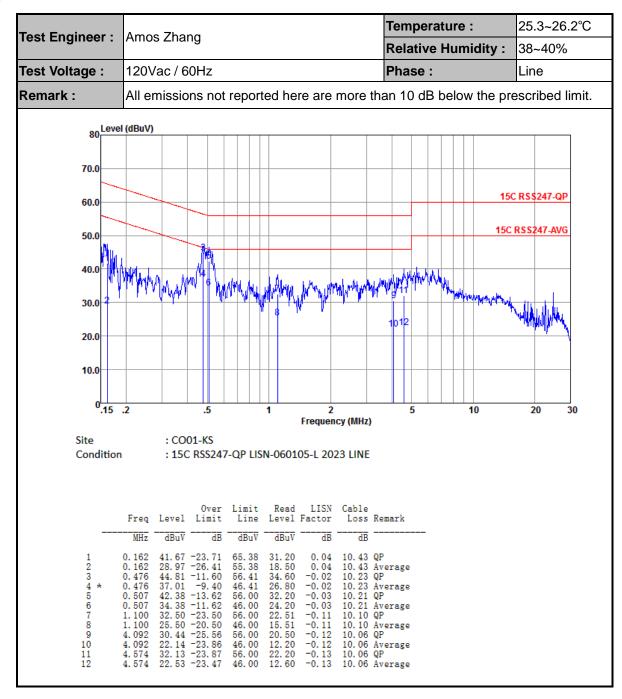
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
Zigbee	250K	1	11	2405	0.00	14.87
Zigbee	250K	1	18	2440	0.00	17.18
Zigbee	250K	1	25	2475	0.00	15.28
Zigbee	250K	1	26	2480	0.00	6.74

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
Zigbee	250K	1	11	2405	10.92	-0.56	-0.95	8.00	Pass
Zigbee	250K	1	18	2440	13.32	1.76	-0.95	8.00	Pass
Zigbee	250K	1	25	2475	12.77	-0.27	-0.95	8.00	Pass
Zigbee	250K	1	26	2480	3.14	-8.39	-0.95	8.00	Pass

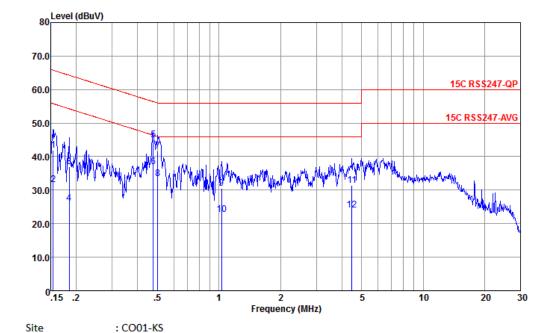
Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

Appendix B. AC Conducted Emission Test Results



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



: 15C RSS247-QP LISN-060105-N 2023 NEUTRAL Condition

Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 0.154 2 0.154 3 0.184 4 0.184 5 0.476 6 * 0.476 7 0.502 8 0.502 9 1.032 10 1.032 11 4.478 12 4.478	31. 67 37. 07 25. 97 44. 96 37. 06 41. 64 33. 44 30. 50 22. 80 31. 43	-23.81 -24.11 -27.21 -28.31 -11.45 -9.35 -14.36 -12.56 -25.50 -23.20 -24.57 -21.87	65. 78 55. 78 64. 28 54. 28 56. 41 46. 41 56. 00 46. 00 56. 00 46. 00 46. 00	31. 50 21. 20 26. 60 15. 50 34. 80 26. 90 31. 50 23. 30 20. 49 12. 79 21. 50 14. 20	0.04 0.04 0.05 0.05 -0.07 -0.07 -0.07 -0.10 -0.10 -0.13	10. 42 10. 42 10. 23 10. 23 10. 21 10. 21 10. 11 10. 11	Average QP Average QP Average QP Average QP Average

Note:

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

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Appendix C. Radiated Spurious Emission Test Data

Summary of Test Mode

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	2400-2483.5	1	Zigbee	11	2405	250Kbps	-
Mode 2	2400-2483.5	1	Zigbee	18	2440	250Kbps	-
Mode 3	2400-2483.5	1	Zigbee	26	2480	250Kbps	-
Mode 4	2400-2483.5	1	Zigbee	25	2475	250Kbps	
Mode 5	2400-2483.5	1	Zigbee	26	2480	250Kbps	LF

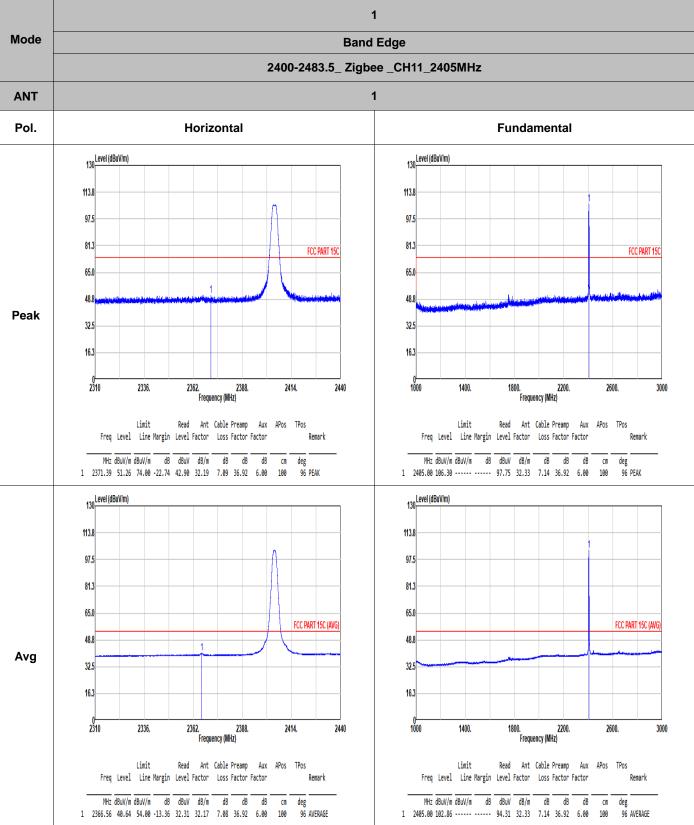
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Zigbee	11	2366.33	40.66	54.00	-13.34	V	AVERAGE	Pass	Band Edge
1	Zigbee	11	5014.00	40.22	54.00	-13.78	V	Average	Pass	Harmonic
2	Zigbee	18	-	-	-	-	-	-	-	Band Edge
2	Zigbee	18	7321.00	44.21	54.00	-9.79	V	Average	Pass	Harmonic
3	Zigbee	26	2483.52	50.61	54.00	-3.39	Н	AVERAGE	Pass	Band Edge
3	Zigbee	26	7440.00	39.44	54.00	-14.56	V	Average	Pass	Harmonic
4	Zigbee	25	2483.50	46.30	54.00	-7.70	Н	AVERAGE	Pass	Band Edge
4	Zigbee	25	7425.00	51.42	54.00	-3.50	V	Average	Pass	Harmonic
5	Zigbee	26	62.01	33.96	40	-6.04	V	PEAK	Pass	LF

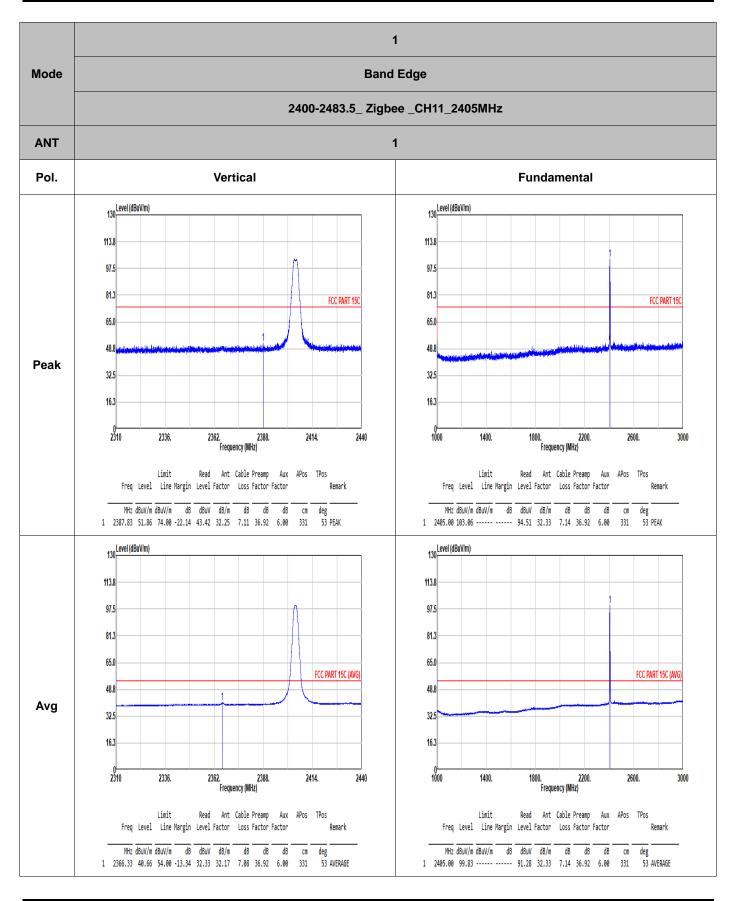
TEL: +86-512-57900158 FCC ID: 2BNMQ-S11575

Sporton International Inc. (Kunshan)

FCC RF Test Report No.: FR372501-03B

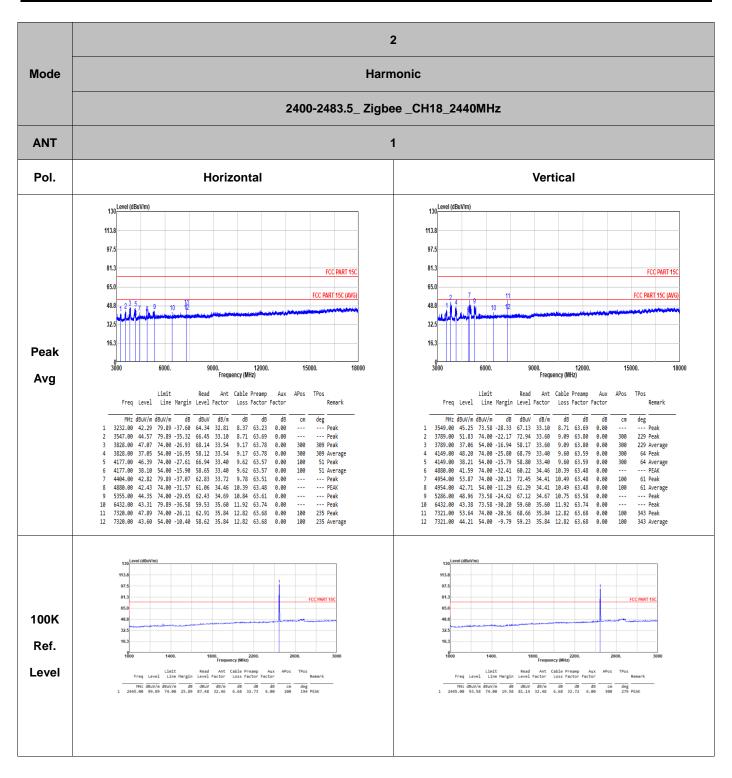


FCC RF Test Report No.: FR372501-03B

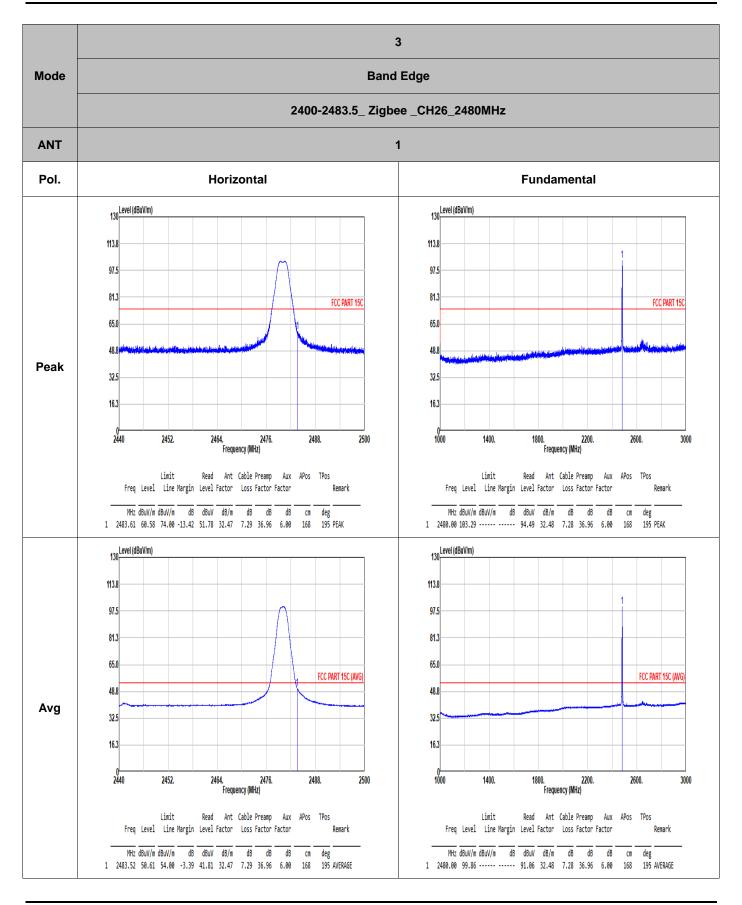


1 Harmonic Mode 2400-2483.5_ Zigbee _CH11_2405MHz **ANT** Pol. Horizontal Vertical 130 Level (dBuV/m) 130 Level (dBuV/m) 113. 113.8 97.5 97.5 81. 81.3 FCC PART 150 65.0 FCC PART 15C (AV FCC PART 15C (AVG 32.5 **Peak** 9000. 12000. Frequency (MHz) 6000. 15000. 18000). 12000. Frequency (MHz) Avg Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark Remark deg --- Peak cm deg --- Peak 85 Peak MHz dBuV/m dBuV/m dB dBuV dB/m cm 212 Peak 212 Peak 212 Average 88 Peak 88 Average 295 Peak 295 Average 58 Peak 0.00 300 85 Average 300 300 45 Peak 45 Average 100 184 184 100 100 0.00 0.00 --- PEAK --- Peak --- Peak 0.00 0.00 58 Average 5997.00 44.77 79.37 -34.60 61.70 35.41 11.52 63.86 6432.00 43.23 79.37 -36.14 59.45 35.60 11.92 63.74 7216.00 52.68 79.37 -26.69 67.70 35.80 12.79 63.61 --- Peak --- Peak --- Peak --- Peak --- Peak --- Peak 7216.00 52.98 73.84 -20.86 68.00 35.80 12.79 63.61 100K Ref. Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark Level Limit Read Ant Cable Preamp Aux APos TPos
Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2405.00 93.84 74.00 19.84 81.80 32.24 6.63 32.83 6.00 300 130 PEAK MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2405.00 99.37 74.00 25.37 87.37 32.22 6.62 32.84 6.00 100 188 PEAK

FCC RF Test Report SPORTON LAB



CC RF Test Report Report No.: FR372501-03B



Report No.: FR372501-03B 3 Mode **Band Edge** 2400-2483.5_ Zigbee _CH26_2480MHz **ANT** 1 Pol. **Vertical Fundamental** 130 Level (dBuV/m) 130 Level (dBuV/m) 113.8 113.8 97.5 97.5 81.3 81.3 FCC PART 150 FCC PART 150 65.0 65.0 48.8 **Peak** 32.5 32.5 16.3 16.3 2440 1000 2452. 2476. 2488. 2500 1400. 2600. 3000 2464. 1800. 2200. Frequency (MHz) Frequency (MHz) Limit Read Ant Cable Preamp Aux APos TPos Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Freq Level Line Margin Level Factor Loss Factor Factor Remark Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB 1 2483.52 57.13 74.00 -16.87 48.33 32.47 7.29 36.96 6.00 237 263 PEAK 1 2480.00 99.17 ----- 90.37 32.48 7.28 36.96 6.00 237 263 PEAK 130 Level (dBuV/m) 130 Level (dBuV/m) 113.8 113.8 97.5 97.5 81.3 81.3 65.0 65.0 FCC PART 15C (AVG FCC PART 15C (AVG 48.8 48.8 Avg 32.5 32.5 16.3 16.3

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0<u>—</u> 2440

2452.

Limit

Freq Level Line Margin Level Factor Loss Factor Factor

MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB

1 2483.50 46.25 54.00 -7.75 37.45 32.47 7.29 36.96 6.00 237 263 AVERAGE

4. 2476. Frequency (MHz)

Read Ant Cable Preamp Aux APos TPos

2488.

cm deg

2500

Remark

Freq Level Line Margin Level Factor Loss Factor Factor

MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB

1 2480.00 95.65 ----- 86.85 32.48 7.28 36.96 6.00 237 263 AVERAGE

0, 2200. Frequency (MHz)

Read Ant Cable Preamp Aux APos TPos

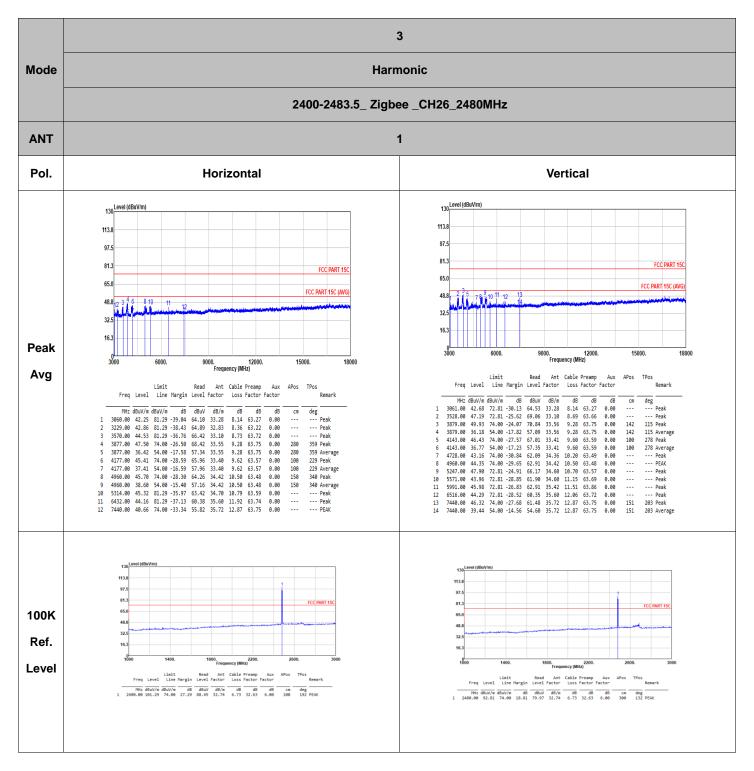
1000

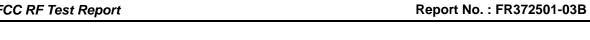
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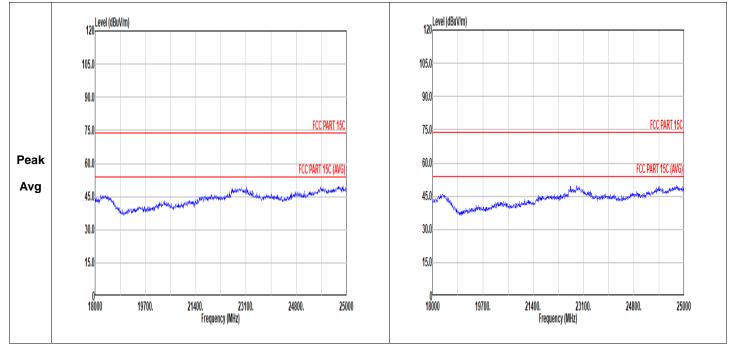
Limit

3000

CC RF Test Report No.: FR372501-03B







Report No.: FR372501-03B 4 Mode **Band Edge** 2400-2483.5_ Zigbee _CH25_2475MHz **ANT** 1 Pol. Horizontal **Fundamental** 130 Level (dBuV/m) 130 Level (dBuV/m) 113.8 113.8 97.5 81.3 81.3 FCC PART 150 65.0 48.8 48.8 Peak 32.5 32.5 16.3 16.3 2440 2452. 1000 2500 1400. 1800. 2200. 3000 Frequency (MHz) Frequency (MHz) Read Ant Cable Preamp Aux APos TPos Limit Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Freq Level Line Margin Level Factor Loss Factor Factor MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2475.00 110.83 ----- 98.05 32.71 6.72 32.65 6.00 100 193 PEAK 1 2483.86 58.04 74.00 -15.96 45.16 32.77 6.73 32.62 6.00 100 193 PEAK 130 Level (dBuV/m) 130 Level (dBuV/m) 113.8 97.5 97.5 81.3 81.3 65.0 65.0 FCC PART 15C (AVG FCC PART 15C (AVG 48.8 48.8 Avg 32.5 32.5 16.3 1000 2452. 2476. 2500 1400. 2200. 3000 Frequency (MHz) Frequency (MHz) Read Ant Cable Preamp Aux APos TPos Read Ant Cable Preamp Aux APos TPos Limit Limit Freq Level Line Margin Level Factor Loss Factor Factor Freq Level Line Margin Level Factor Loss Factor Factor

MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg

1 2483.50 46.30 54.00 -7.70 33.43 32.77 6.73 32.63 6.00 100 193 AVERAGE

TEL: +86-512-57900158 FCC ID: 2BNMQ-S11575 MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg

1 2475.00 107.43 ----- 94.65 32.71 6.72 32.65 6.00 100 193 AVERAGE

Report No.: FR372501-03B 4 Mode **Band Edge** 2400-2483.5_ Zigbee _CH25_2475MHz **ANT** 1 Pol. **Vertical Fundamental** 130 Level (dBuV/m) 130 Level (dBuV/m) 97.5 97.5 81.3 81.3 65.0 65.0 48.8 48.8 Peak 32.5 32.5 16.3 16.3 1000 2440 1400. 2452. 2476. 2500 2200. Frequency (MHz) Frequency (MHz) Limit Read Ant Cable Preamp Aux APos TPos Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark Freq Level Line Margin Level Factor Loss Factor Factor MHz dBuV/m dBuV/m dB dBuV dB/m dB dB MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.68 56.28 74.00 -17.72 43.41 32.77 6.73 32.63 6.00 289 313 PEAK 1 2475.00 104.40 ----- 91.62 32.71 6.72 32.65 6.00 289 313 PEAK 130 Level (dBuV/m) 130 Level (dBuV/m) 113.8 113.8 97.5 97.5 81.3 81.3 65.0 65.0 FCC PART 15C (AVG FCC PART 15C (AVG 48.8 48.8 Avg 32.5 32.5 16.3 1000 2452. 2464. 2476. 2500 1400. 1800. 2200. 3000 .. Frequency (MHz) Frequency (MHz) Read Ant Cable Preamp Aux APos TPos Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Freq Level Line Margin Level Factor Loss Factor Factor

Sporton International Inc. (Kunshan)

MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB

1 2483.50 44.33 54.00 -9.67 31.46 32.77 6.73 32.63 6.00 289 313 AVERAGE

TEL: +86-512-57900158 FCC ID: 2BNMQ-S11575 MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg

1 2475.00 101.00 ----- 88.22 32.71 6.72 32.65 6.00 289 313 AVERAGE

4 Mode Harmonic 2400-2483.5_ Zigbee _CH25_2475MHz **ANT** 1 Pol. Horizontal Vertical 120 Level (dBuV/m) 120 Level (dBuV/m) 90.0 FCC PART 150 FCC PART 150 75.0 75.0 60.0 30.0 30.0 15.0 **Peak** 9000. 12000. Frequency (MHz) 15000. 9000. 12000. Frequency (MHz) Avg Limit Read Ant Cable Preamp Aux Freq Level Line Margin Level Factor Loss Factor Factor Limit Read Ant Cable Preamp Aux Freq Level Line Margin Level Factor Loss Factor Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m 3285.00 45.90 84.89 -38.99 66.82 32.47 3795.00 48.28 74.00 -25.72 68.08 33.41 3795.00 36.35 54.00 -17.65 56.15 33.41 4110.00 46.74 74.00 -27.26 64.42 34.98 4110.00 38.92 54.00 -15.08 56.60 34.98 MHz dBuV/m dBuV/m dB dBuV dB/m 3285.00 46.15 80.40 -34.25 67.07 32.47 3255.00 47.68 80.40 -32.72 67.64 32.85 3840.00 49.02 74.00 -24.98 68.43 33.72 4950.00 51.17 74.00 -22.83 68.18 34.20 deg --- Peak 23 Peak deg --- Peak --- Peak dB cm dB dB 7.79 61.18 8.13 60.94 8.41 61.54 8.41 61.54 9.60 60.81 7.79 61.18 8.35 61.56 0.00 8.35 61.56 8.74 61.40 8.74 61.40 0.00 0.00 0.00 300 100 100 23 Average 62 Peak 62 Average 206 Peak 206 Average 0 PEAK 100 100 300 300 ---139 4.110.00 30.192 34.00 -13.00 30.00 34.30 0.74 0.1.40 4590.00 43.73 74.00 -30.27 06.74 34.20 9.60 66.81 5025.00 48.00 74.00 -26.00 64.92 34.15 9.68 60.75 5025.00 39.81 54.00 -14.19 56.73 34.15 9.68 60.75 5025.00 47.61 84.80 37.00 63.37 34.15 9.68 60.75 5025.00 47.61 84.80 37.00 63.37 34.15 9.68 60.75 5025.00 47.61 84.80 37.00 63.37 34.15 9.60 60.75 7425.00 57.48 74.00 -16.52 76.00 35.70 11.76 60.58 7425.00 51.42 54.00 -3.58 64.54 35.70 11.76 60.58 0.00 0.00 0.00 0.00 0.00 0.00 4990.00 31.37 /40 -22.63 50.70 34.20 9.00 60.81 4990.00 35.69 54.00 -20.81 50.70 34.20 9.00 60.81 5295.00 50.49 80.40 -29.91 66.48 34.58 9.80 60.45 5885.00 48.36 80.40 -32.04 62.87 35.27 10.57 60.35 7425.00 50.50 54.00 -3.50 63.63 35.70 11.76 60.59 7995.00 48.79 80.40 -31.61 60.41 35.81 12.42 59.85 0.00 0.00 0.00 0.00 0 AVERAGE
--- Peak
--- Peak
62 PEAK -- PEAK 300 120 Peak 120 Average --- Peak 300 ---100 100 62 AVERAGE --- Peak 111 PEAK 113.8 100K Ref.

Limit Over Read Ant Cable Preamp Aux APos TPos Freq Level Line Limit Level Factor Loss Factor Factor Remark

| MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg | 1 2480.00 104.89 74.00 30.89 92.05 32.74 6.73 32.63 6.00 100 360 PEAK

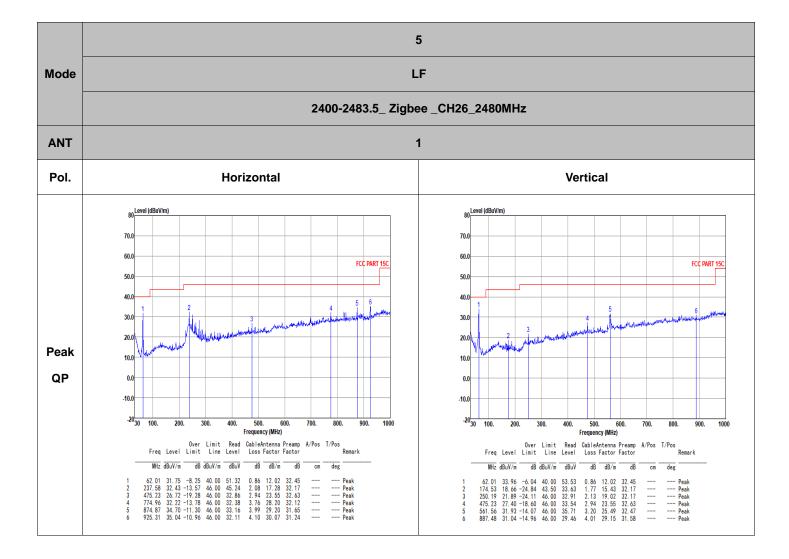
TEL: +86-512-57900158 FCC ID: 2BNMQ-S11575

Level

Limit Over Read Ant Cable Preamp Aux APos TPos Freq Level Lime Limit Level Factor Loss Factor Factor Remark

MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB 1 2480.00 100.40 74.00 26.40 87.56 32.74 6.73 32.63 6.00

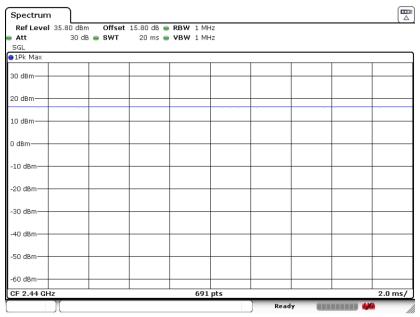
FCC RF Test Report Report No.: FR372501-03B



Appendix D. Duty Cycle Plots

Mode	Duty Cycle(%)	Duty Cycle(%) T(ms)		VBW Setting	
Zigbee	100	-	-	10Hz	

Zigbee mode



Date: 28.JUL.2023 18:26:42