

FCC RF Test Report

APPLICANT : Evergreen Huckleberry LLC
EQUIPMENT : Digital Media Receiver
MODEL NAME : R85SD6
FCC ID : 2A8FC-8523
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Mar. 19, 2023 ~ May 18, 2023

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

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

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

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

People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR2N2209-01C	Rev. 01	Initial issue of report	May 19, 2023
FR2N2209-01C	Rev. 02	Update Section 2.2 AC Conducted Emission test mode on Page 7	Sep. 06, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Report only	-
3.2	15.247(b)(3)	Output Power	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	$\leq 30\text{dBc}$	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.22 dB at 2483.52 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 18.93 dB at 1.893 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Evergreen Huckleberry LLC

100 S. Ashley Drive Suite 600 Tampa, FL 33602

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	R85SD6
FCC ID	2A8FC-8523
SN	Conducted: G0B2MM0330920044 Conduction: G0B2MM0330870012 Radiation: G0BMM033087000K

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	2405 MHz ~ 2480 MHz
Number of Channels	16
Carrier Frequency of Each Channel	2405 MHz, 2410MHz, ..., 2480MHz
Maximum Output Power to Antenna	15.50 dBm (0.0355 W)
99% Occupied Bandwidth	2.582MHz
Antenna Type / Gain	Dipole Antenna Type with gain 4 dBi
Type of Modulation	O-QPSK

1.4 Modification of EUT

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

1.5 Testing Location

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

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a
2.	CO01-SZ	AUDIX	E3	6.120613b

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 v05r02
- ANSI C63.10-2013

Remark:

1. 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.

2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	11	2405	19	2445
	12	2410	20	2450
	13	2415	21	2455
	14	2420	22	2460
	15	2425	23	2465
	16	2430	24	2470
	17	2435	25	2475
	18	2440	26	2480

2.2 Test Mode

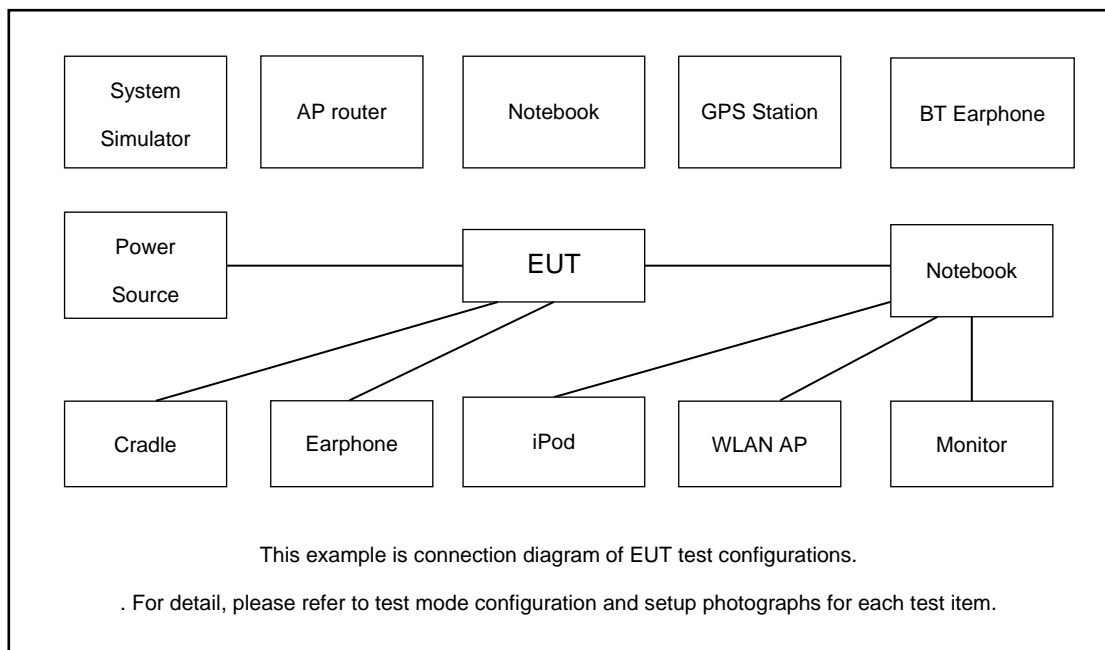
- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Y 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
	250kbps / Zigbee
Conducted TCs	Mode 1: Zigbee Tx CH11_2405 MHz Mode 2: Zigbee Tx CH17_2435 MHz Mode 3: Zigbee Tx CH25_2475 MHz Mode 4: Zigbee Tx CH26_2480 MHz
Radiated TCs	Mode 1: Zigbee Tx CH11_2405 MHz Mode 2: Zigbee Tx CH17_2435 MHz Mode 3: Zigbee Tx CH25_2475 MHz Mode 4: Zigbee Tx CH26_2480 MHz
AC Conducted Emission	Mode 1: Zigbee Link(Connet to Light bulb) + Bluetooth Link + With Charging Stand + AC Adapter

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.	BT Speaker	JBL	Charge3	N/A	N/A	N/A
2.	WLAN AP	TP_Link	DBWRT01R	N/A	N/A	N/A
3.	Light bulb	philips	097	N/A	N/A	N/A
4.	Stand	N/A	N/A	N/A	N/A	N/A



2.5 EUT Operation Test Setup

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 1.2 dB and 20dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 1.2 + 20 = 21.2 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

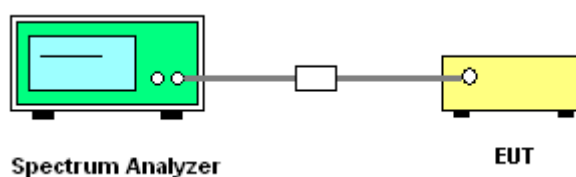
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the 99% OBW and the VBW is set to 3 times of the RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup

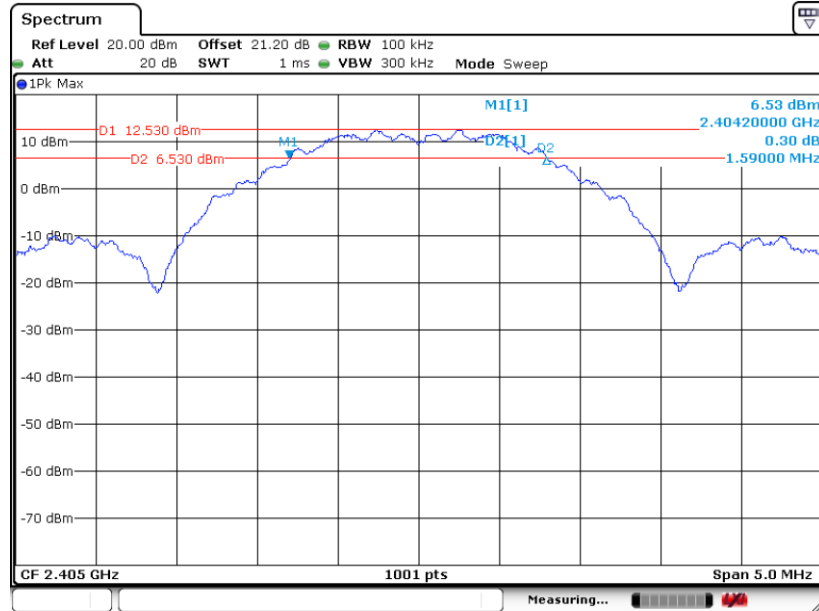




3.1.5 Test Result of 6dB Bandwidth

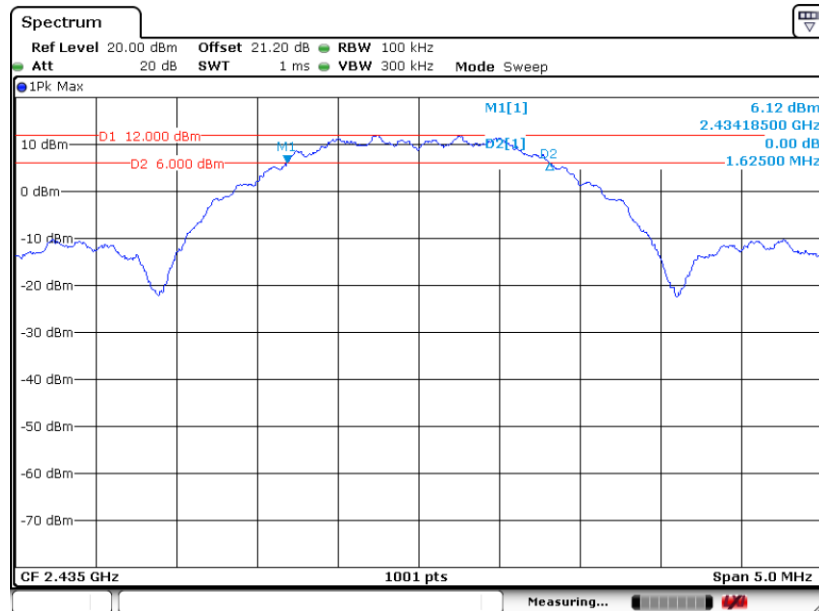
Please refer to Appendix A.

6 dB Bandwidth Plot on Channel 11



Date: 19.MAR.2023 06:18:34

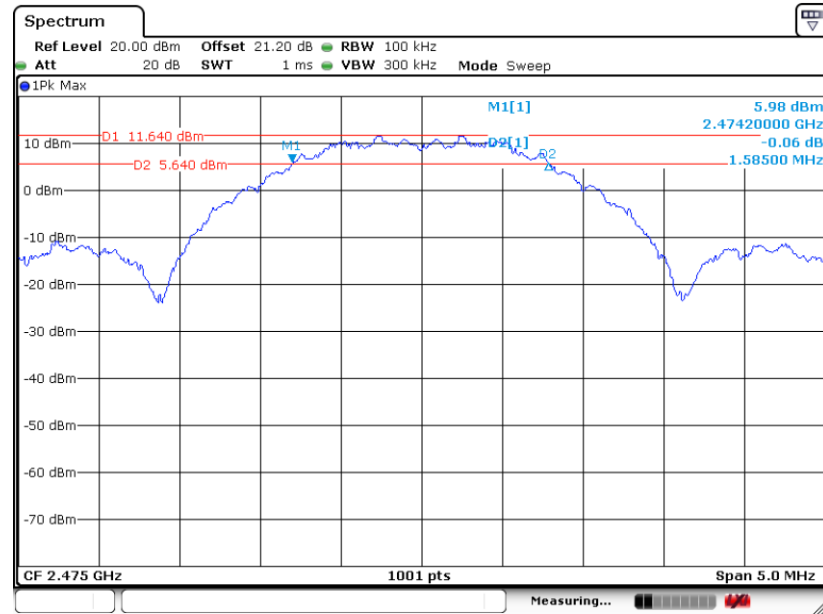
6 dB Bandwidth Plot on Channel 17



Date: 19.MAR.2023 06:23:24

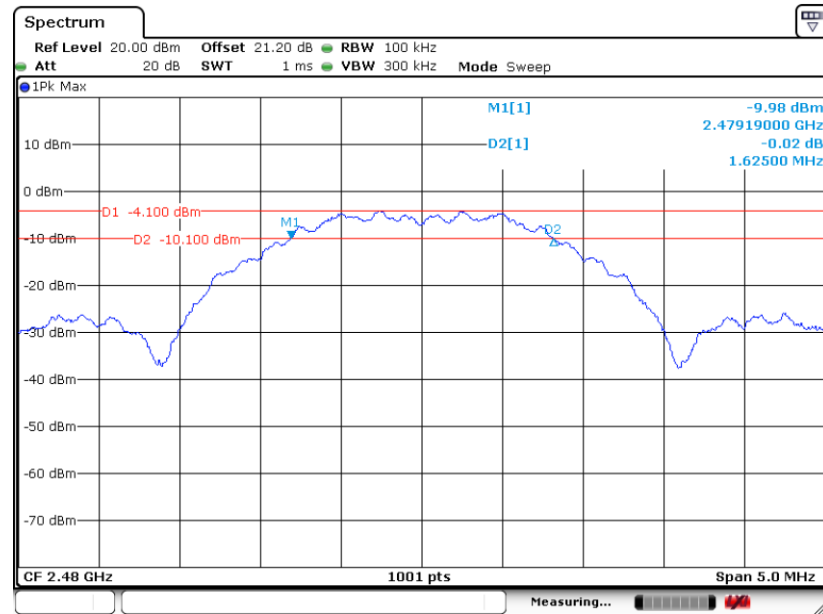


6 dB Bandwidth Plot on Channel 25



Date: 19.MAR.2023 06:26:57

6 dB Bandwidth Plot on Channel 26



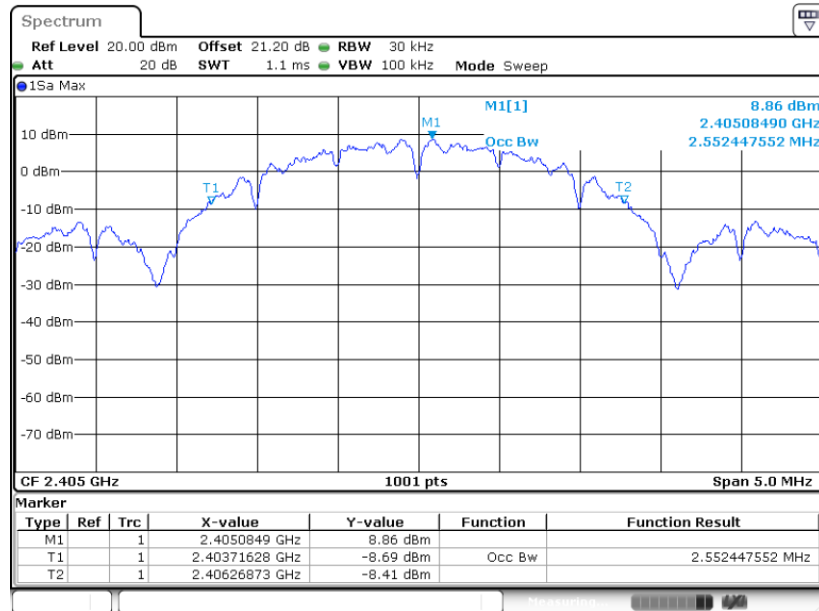
Date: 19.MAR.2023 06:35:00



3.1.6 Test Result of 99% Occupied Bandwidth

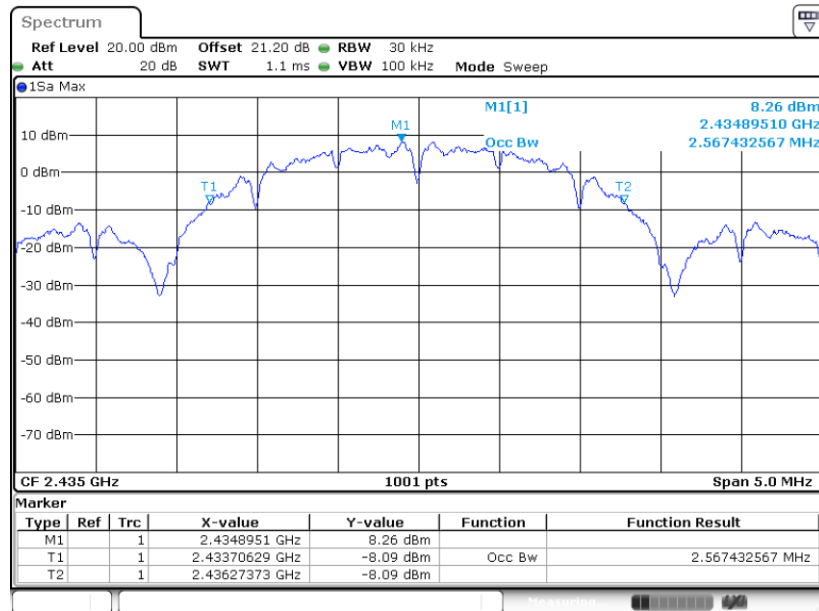
Please refer to Appendix A.

99% Occupied Bandwidth Plot on Channel 11



Date: 19.MAR.2023 06:22:00

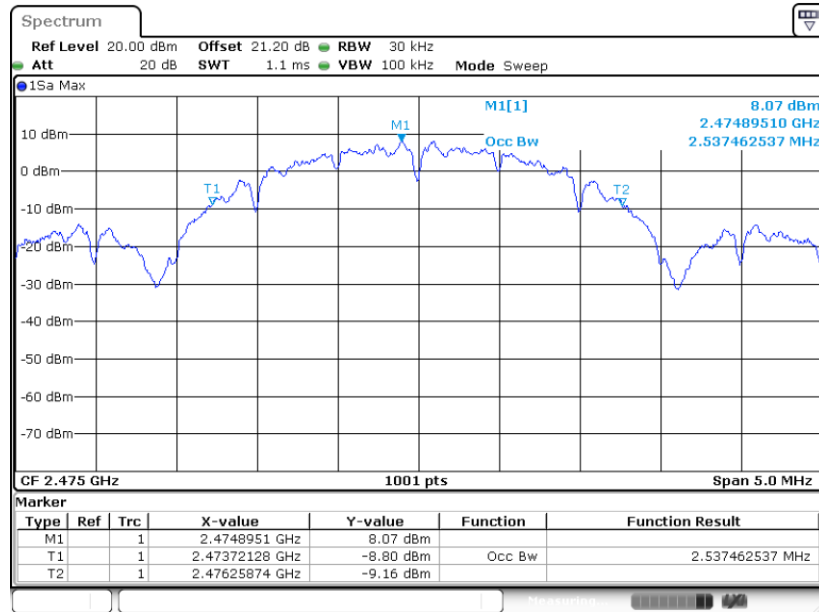
99% Occupied Bandwidth Plot on Channel 17



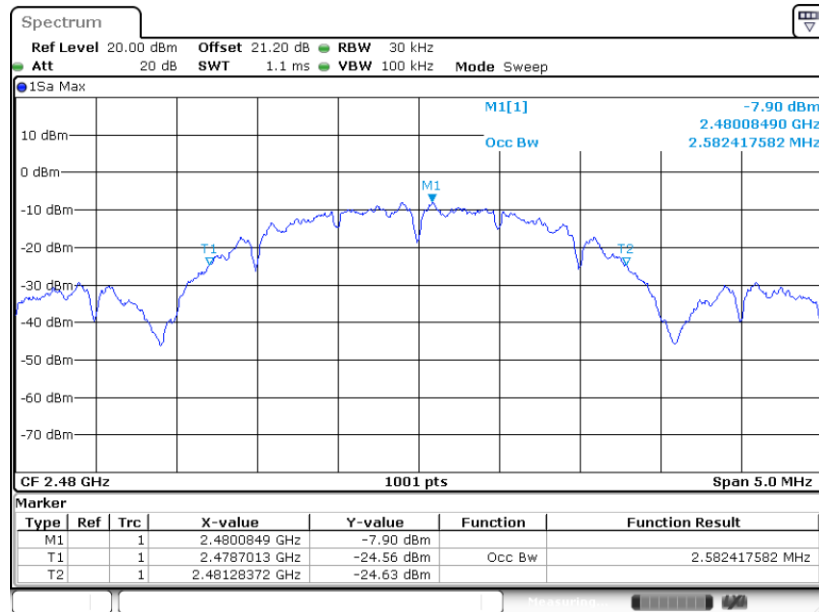
Date: 19.MAR.2023 06:25:37



99% Occupied Bandwidth Plot on Channel 25



99% Occupied Bandwidth Plot on Channel 26



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

3.2 Output Power Measurement

3.2.1 Limit of Output Power

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

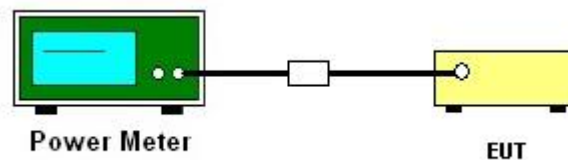
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. 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 Average Output Power

Please refer to Appendix A.

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.

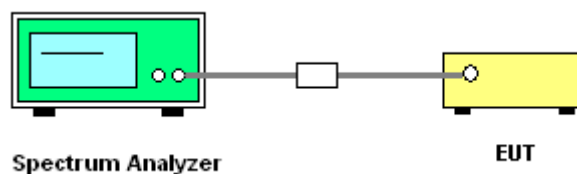
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



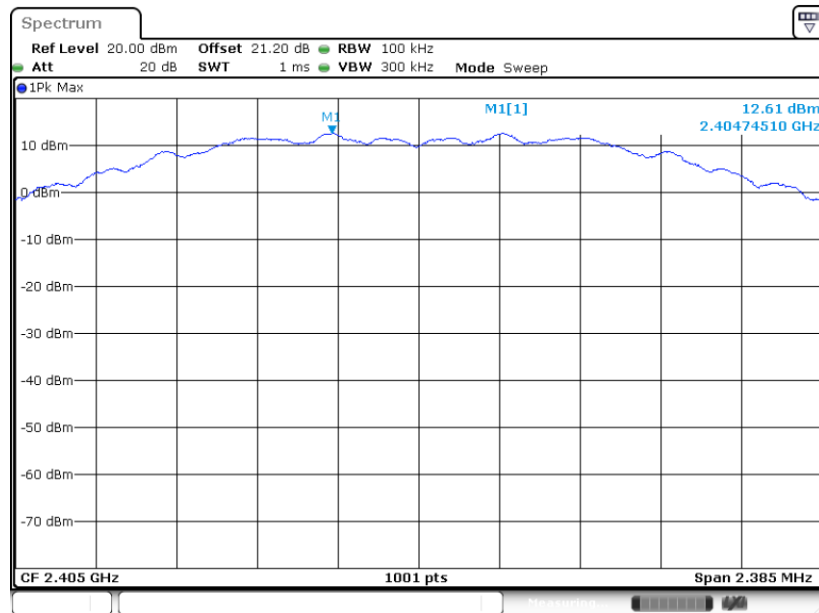
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



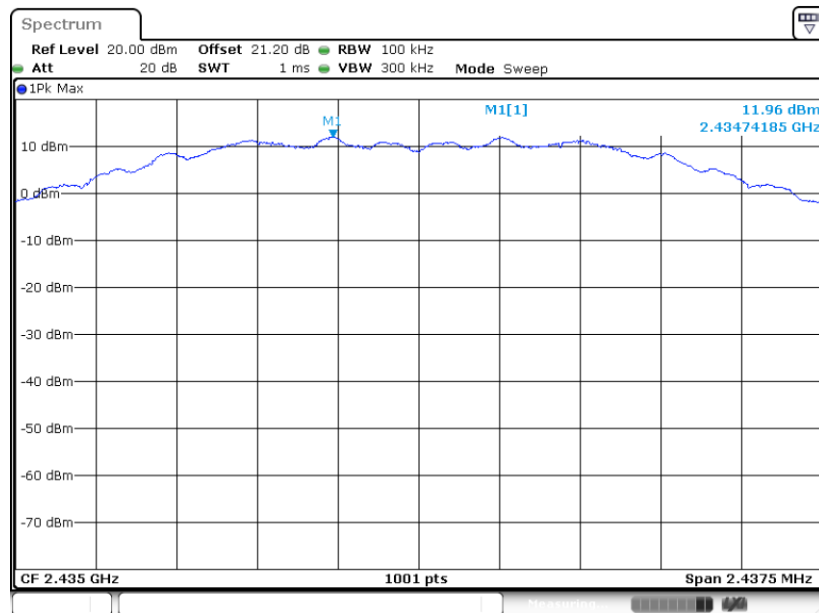
3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on Channel 11



Date: 19.MAR.2023 06:19:48

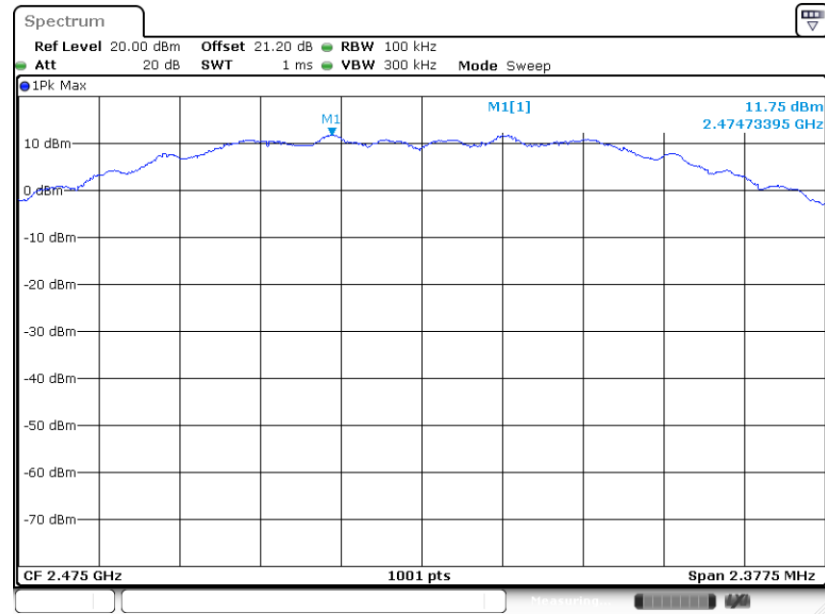
PSD 100kHz Plot on Channel 17



Date: 19.MAR.2023 06:24:15

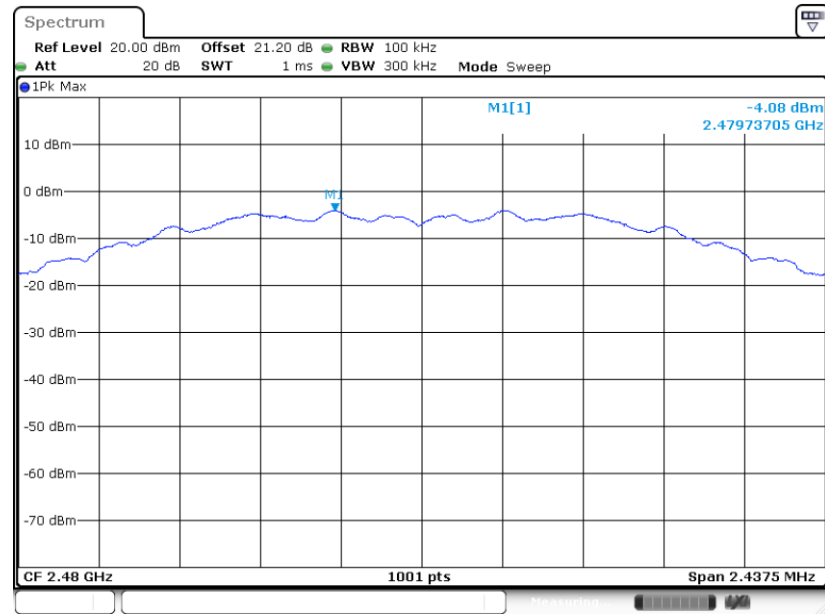


PSD 100kHz Plot on Channel 25



Date: 19.MAR.2023 06:27:49

PSD 100kHz Plot on Channel 26

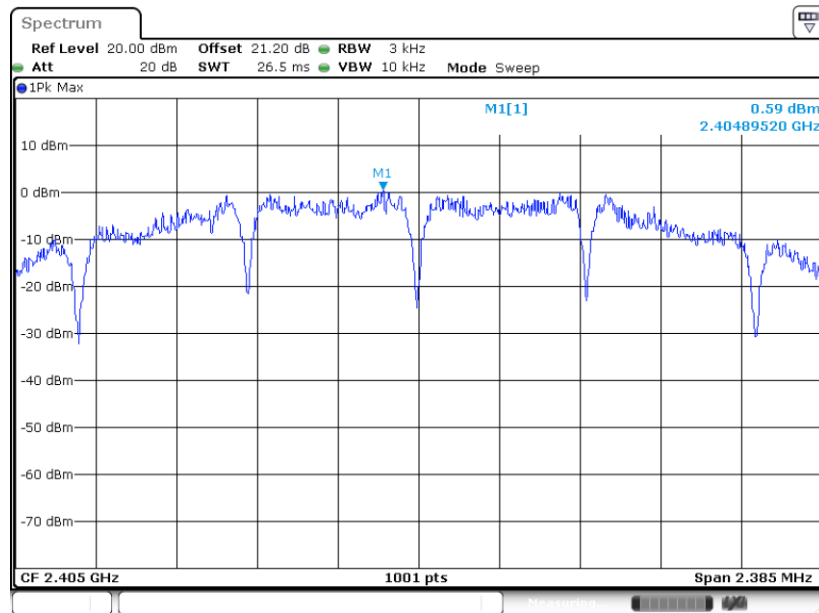


Date: 19.MAR.2023 06:35:39



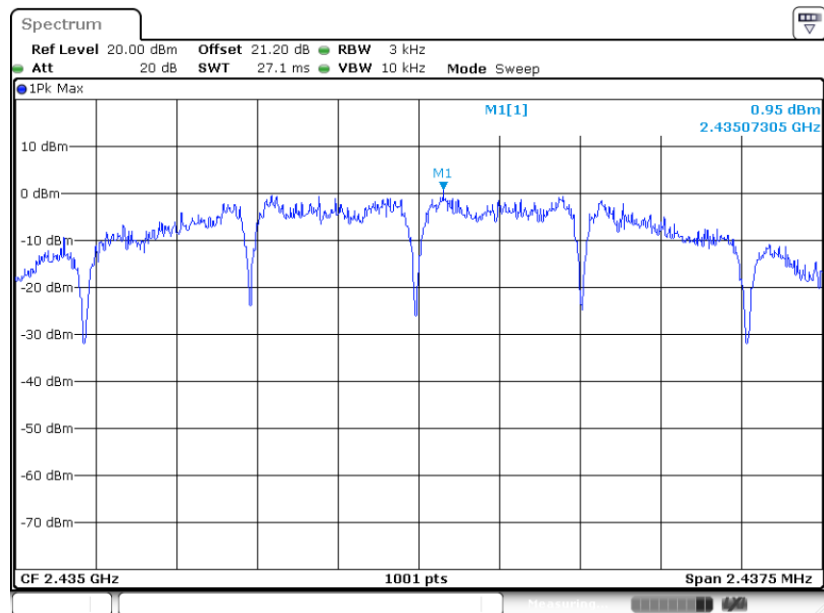
3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on Channel 11



Date: 19.MAR.2023 09:43:47

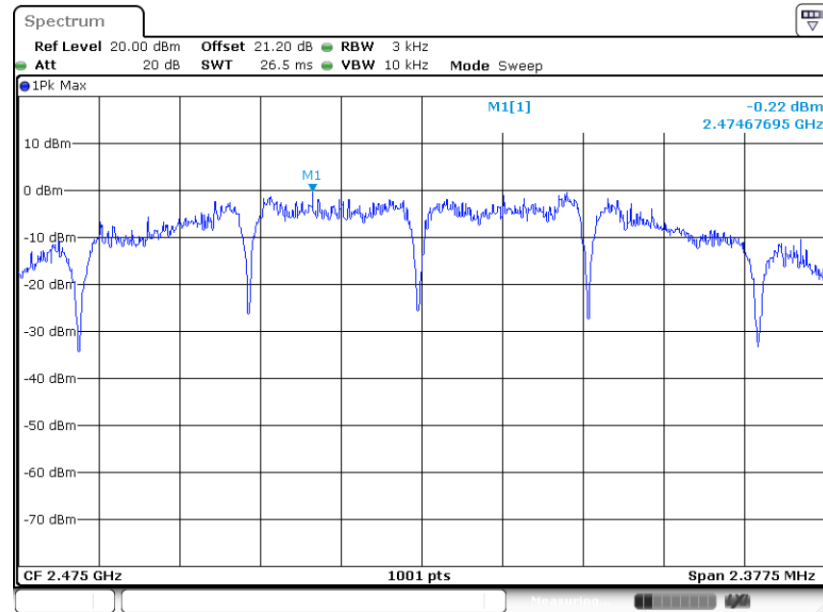
PSD 3kHz Plot on Channel 17



Date: 19.MAR.2023 09:48:52

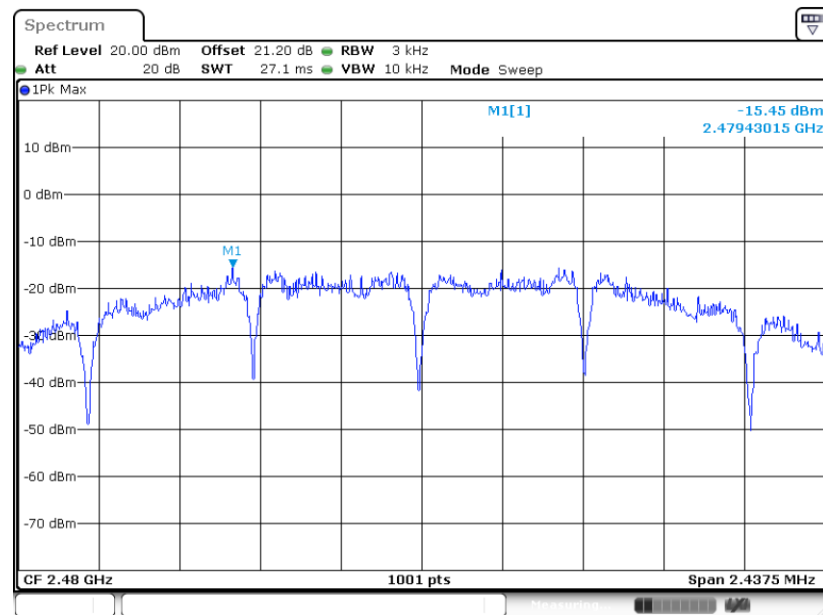


PSD 3kHz Plot on Channel 25



Date: 19.MAR.2023 09:52:05

PSD 3kHz Plot on Channel 26



Date: 19.MAR.2023 06:35:21

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.

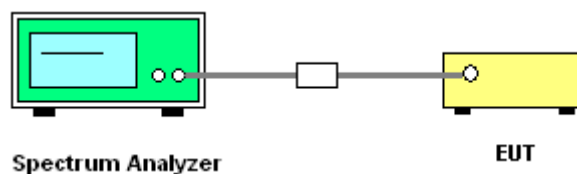
3.4.2 Measuring Instruments

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.

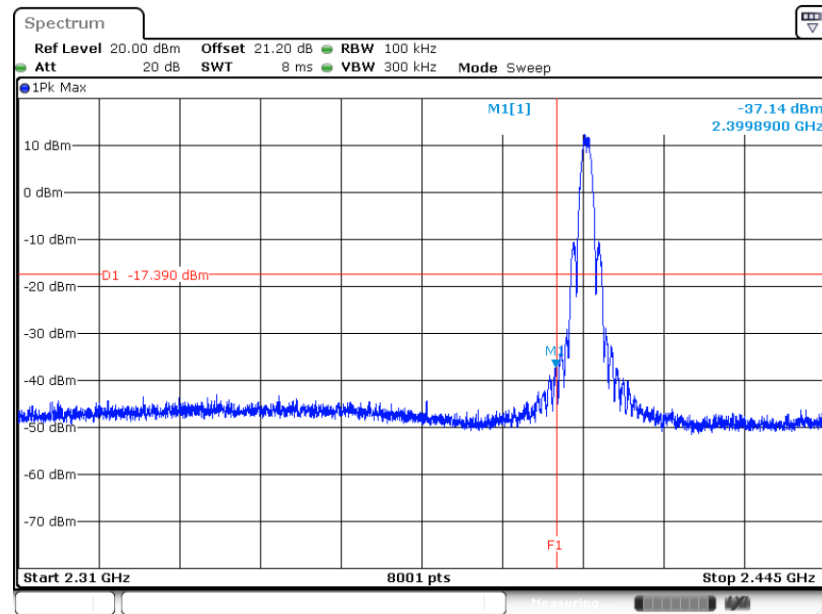
3.4.4 Test Setup





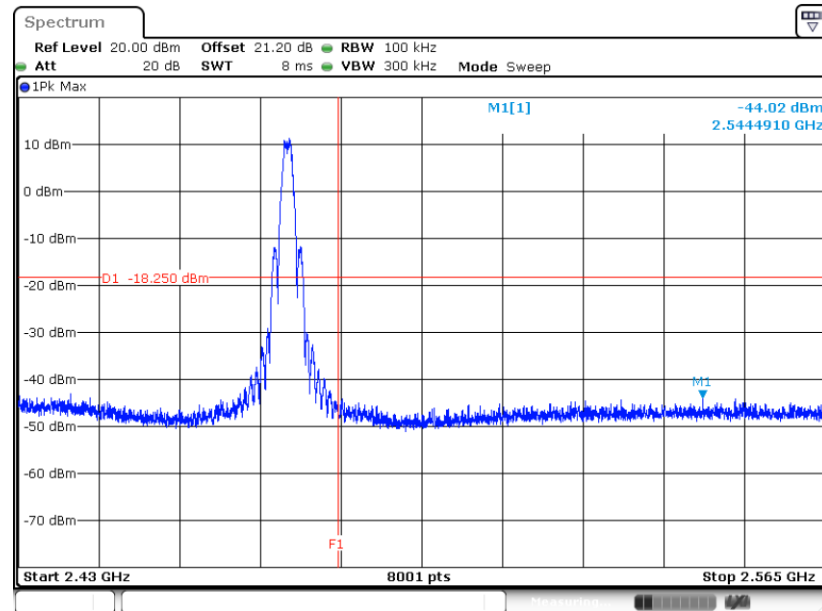
3.4.5 Test Result of Conducted Band Edges Plots

Low Band Edge Plot on Channel 11



Date: 19.MAR.2023 06:20:00

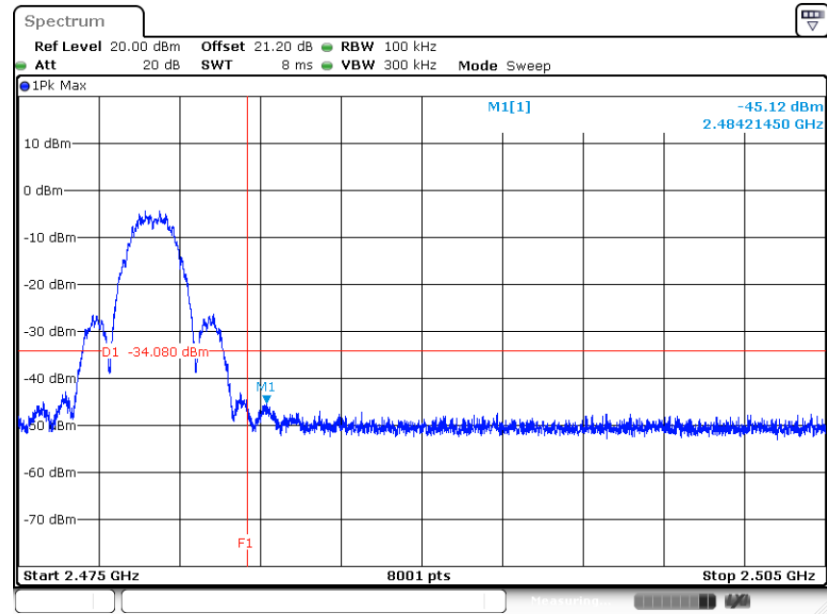
High Band Edge Plot on Channel 25



Date: 19.MAR.2023 06:28:07



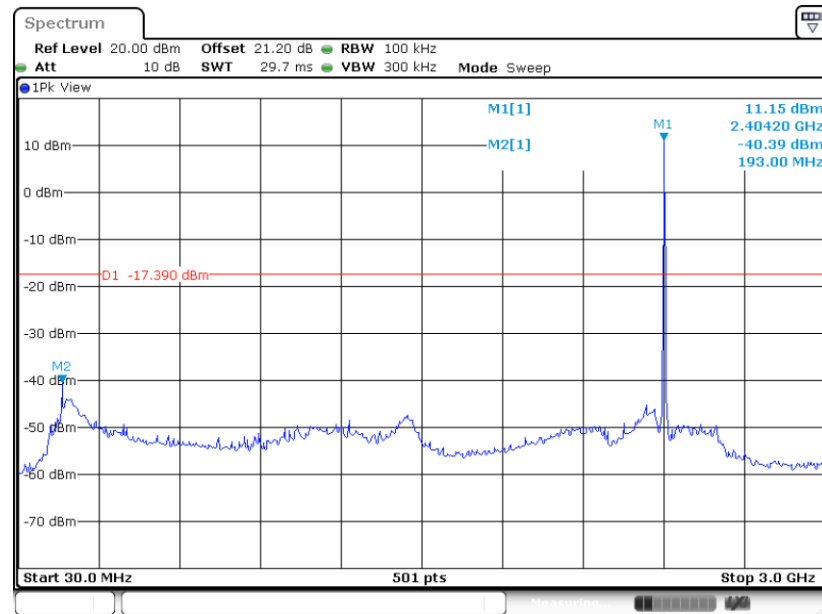
High Band Edge Plot on Channel 26



Date: 19.MAR.2023 06:35:57

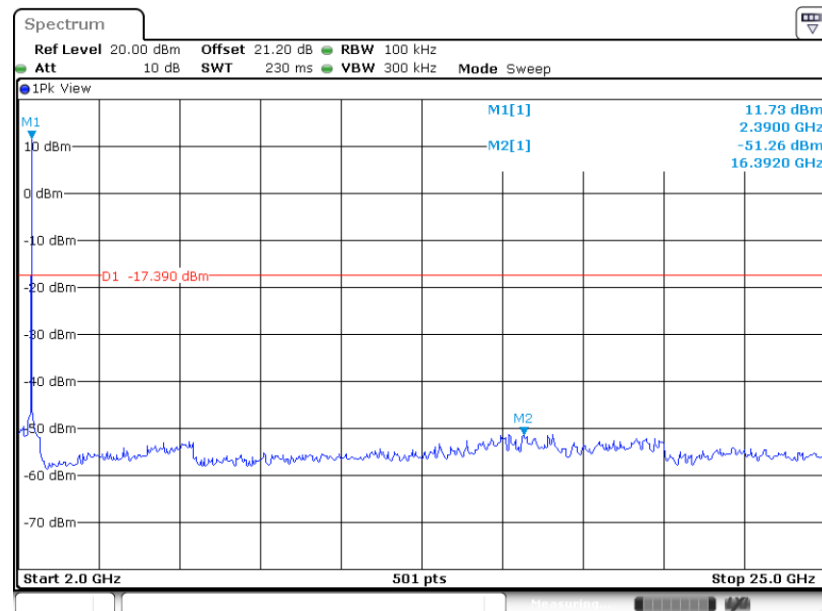
3.4.6 Test Result of Conducted Spurious Emission Plots

Conducted Spurious Emission Plot on Zigbee Channel 11



Date: 19.MAR.2023 06:21:21

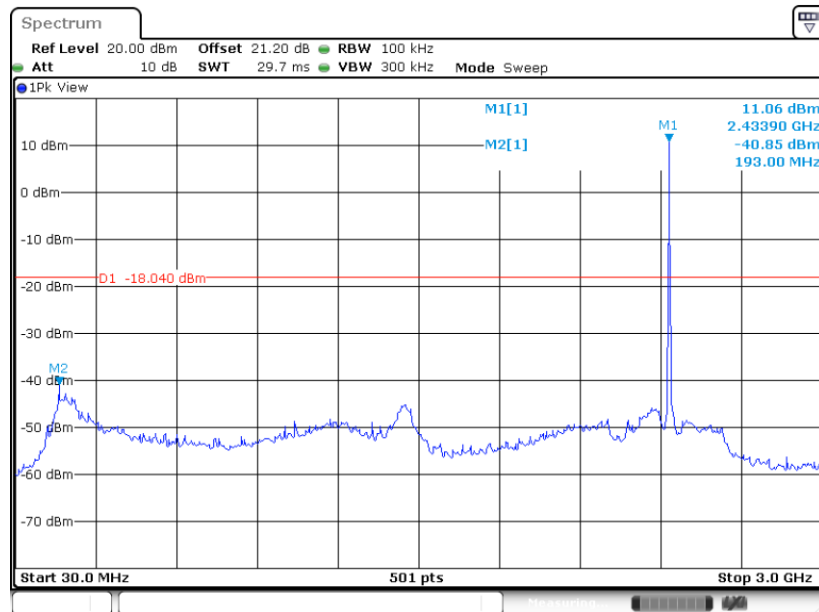
Conducted Spurious Emission Plot on Zigbee Channel 11



Date: 19.MAR.2023 06:21:43

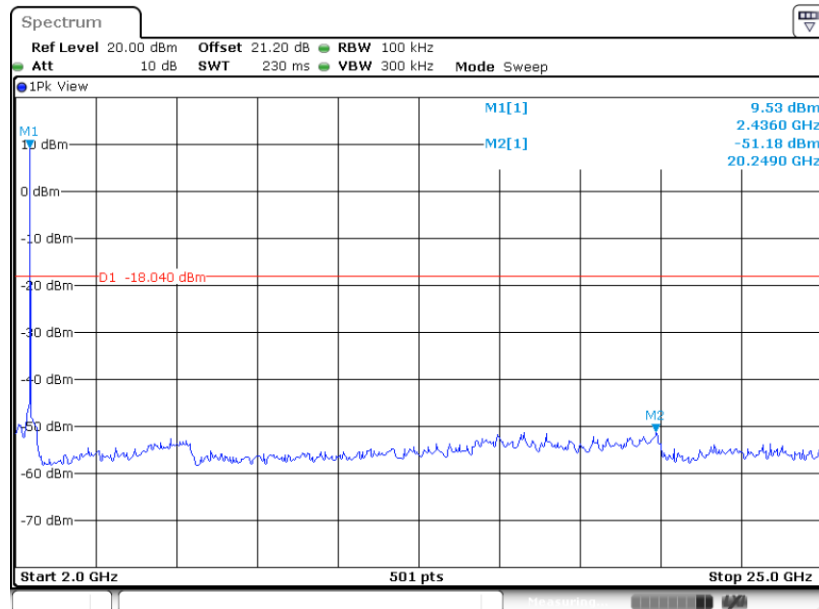


Conducted Spurious Emission Plot on Zigbee Channel 17



Date: 19.MAR.2023 06:24:50

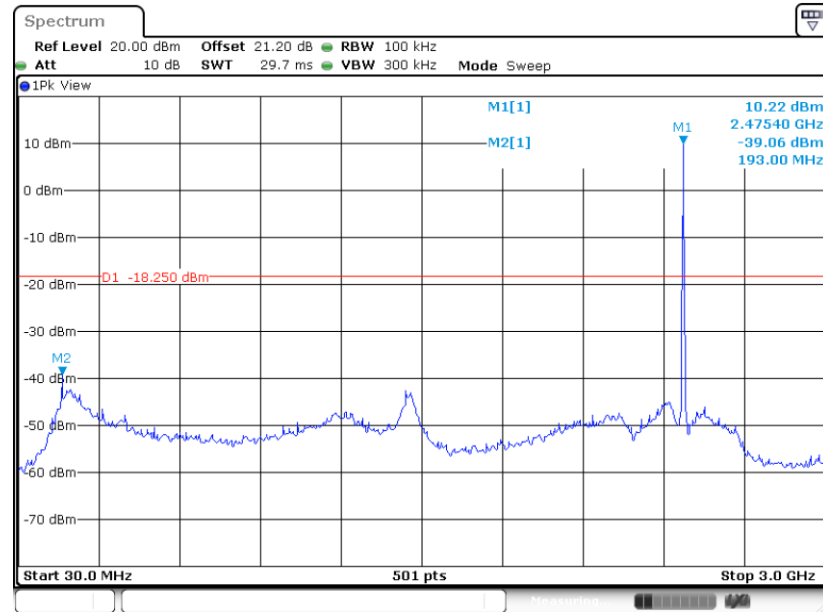
Conducted Spurious Emission Plot on Zigbee Channel 17



Date: 19.MAR.2023 06:25:11

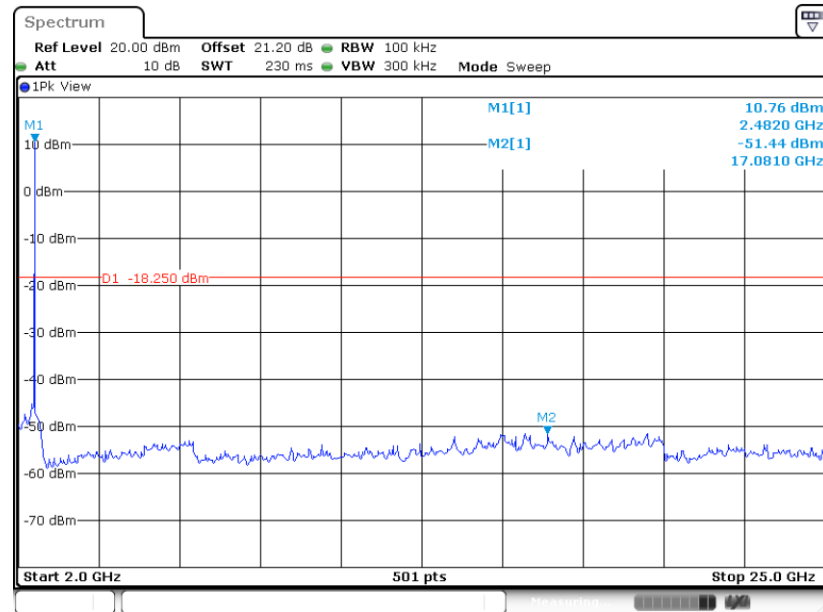


Conducted Spurious Emission Plot on Zigbee Channel 25



Date: 19.MAR.2023 06:28:21

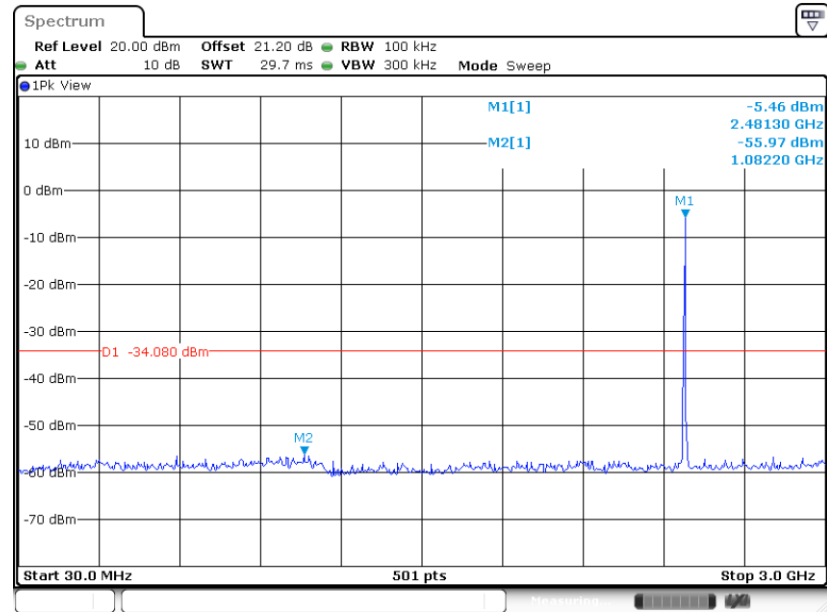
Conducted Spurious Emission Plot on Zigbee Channel 25



Date: 19.MAR.2023 06:28:33

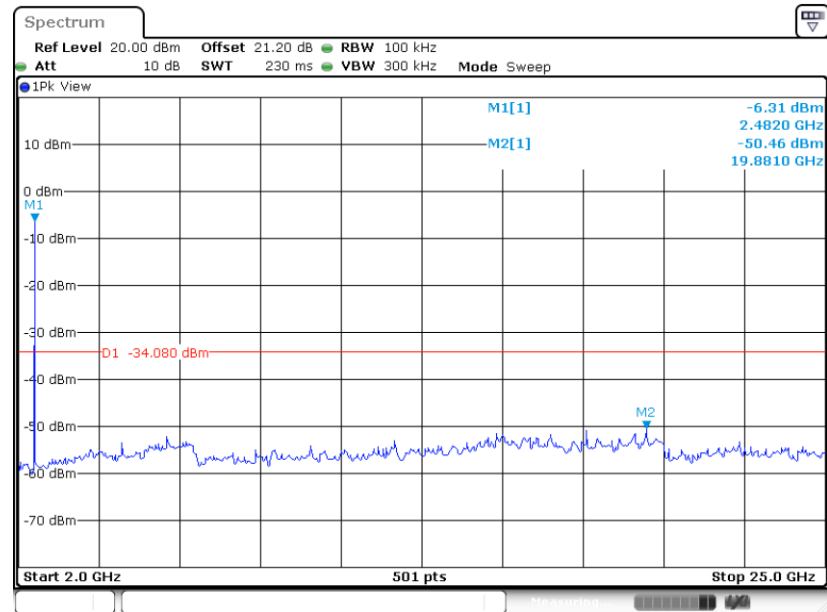


Conducted Spurious Emission Plot on Zigbee Channel 26



Date: 19.MAR.2023 06:36:13

Conducted Spurious Emission Plot on Zigbee Channel 26



Date: 19.MAR.2023 06:36:25

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

3.5.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;

(2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;

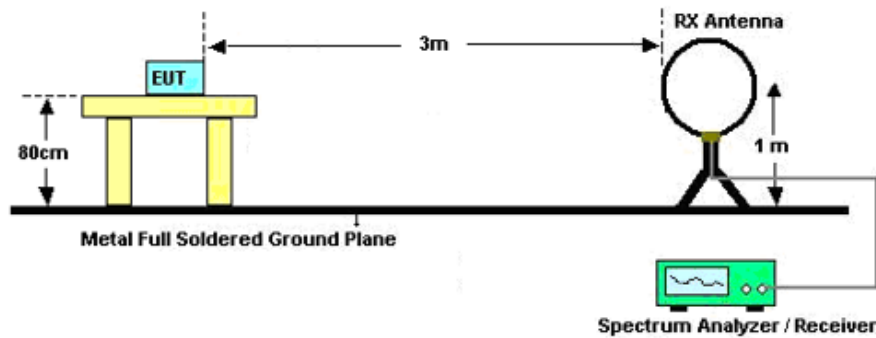
(3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

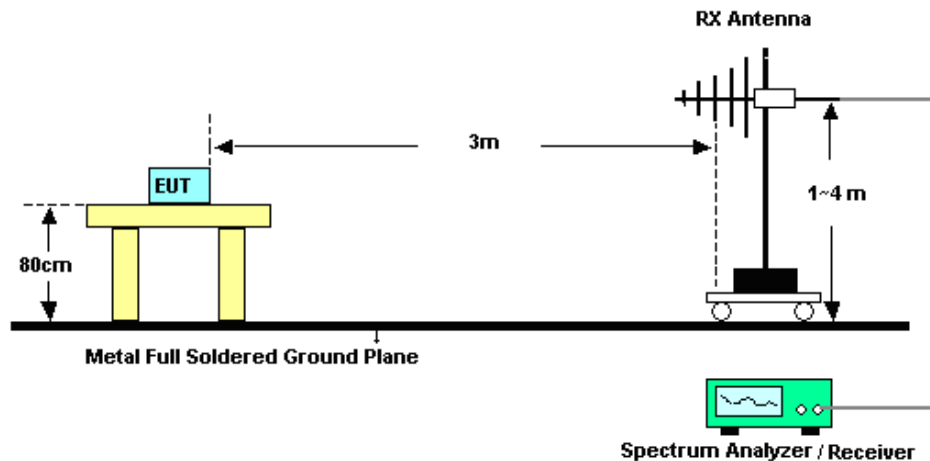
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

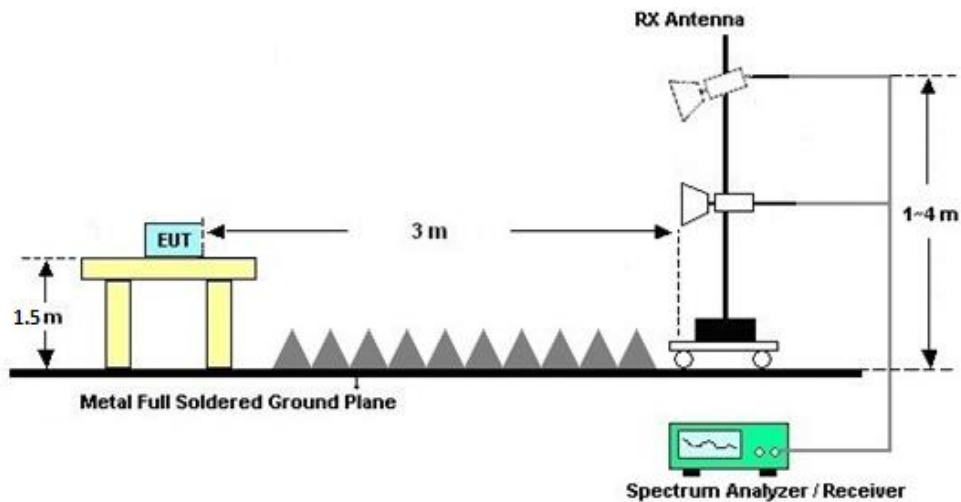
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C&D.

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

Please refer to Appendix C&D.

3.5.8 Duty Cycle

Please refer to Appendix E.

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.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	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.

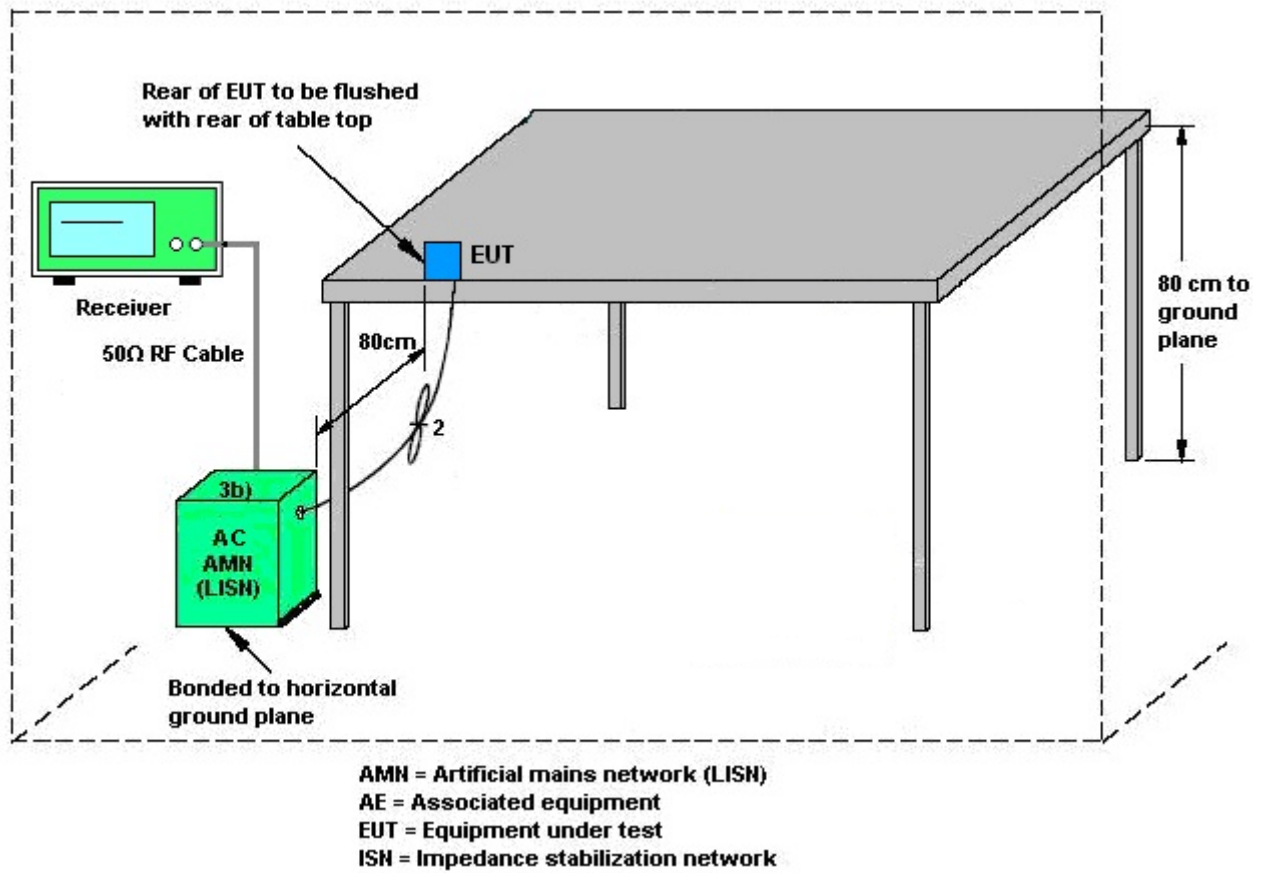
3.6.2 Measuring Instruments

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.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



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.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2022	Mar. 19, 2023	Apr. 05, 2023	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 27, 2022	Mar. 19, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 27, 2022	Mar. 19, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
Attenuator	MICROWAV	EMVE2214-10	2	30MHz~26.5GHz	Feb. 22, 2023	Mar. 19, 2023	Feb. 22, 2024	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2022	Apr. 02, 2023~Apr. 20, 2023	Jul. 06, 2023	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Apr. 02, 2023~Apr. 20, 2023	Jul. 27, 2024	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Sep. 28, 2021	Apr. 02, 2023~Apr. 20, 2023	Sep. 27, 2023	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 07, 2022	Apr. 02, 2023~Apr. 20, 2023	Jul. 06, 2023	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2022	Apr. 02, 2023~Apr. 20, 2023	Jul. 06, 2023	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 08, 2022	Apr. 02, 2023~Apr. 20, 2023	Apr. 07, 2024	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 19, 2022	Apr. 02, 2023~Apr. 20, 2023	Oct. 18, 2023	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Apr. 02, 2023~Apr. 20, 2023	Oct. 18, 2023	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 19, 2022	Apr. 02, 2023~Apr. 20, 2023	Oct. 18, 2023	Radiation (03CH02-SZ)
Attenuator	SolvangTech	STI02-3125-06	2	30MHz~26.5GHz	Jan. 27, 2023	Apr. 02, 2023~Apr. 20, 2023	Jan. 26, 2024	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Nov. 10, 2022	Apr. 02, 2023~Apr. 20, 2023	Nov. 10, 2023	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Apr. 02, 2023~Apr. 20, 2023	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Apr. 02, 2023~Apr. 20, 2023	NCR	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 07, 2022	May 18, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sep. 15, 2022	May 18, 2023	Sep. 14, 2023	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 17, 2022	May 18, 2023	Oct. 16, 2023	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2022	May 18, 2023	Jul. 06, 2023	Conduction (CO01-SZ)

NCR: No Calibration Required

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.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	± 1.34 dB
Conducted Emissions	± 1.34 dB
Occupied Channel Bandwidth	± 0.13 %
Conducted Power Spectral Density	± 1.32 dB

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.7dB
--	-------

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.1dB
--	-------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.1dB
--	-------

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



Appendix A. Conducted Test Results

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Chen Ran	Temperature:	21~25	°C
Test Date:	2023/3/19	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
Zigbee	250K	1	11	2405	2.552	1.590	0.50	Pass
Zigbee	250K	1	17	2435	2.567	1.625	0.50	Pass
Zigbee	250K	1	25	2475	2.537	1.585	0.50	Pass
Zigbee	250K	1	26	2480	2.582	1.625	0.50	Pass

TEST RESULTS DATA
Average Power Table

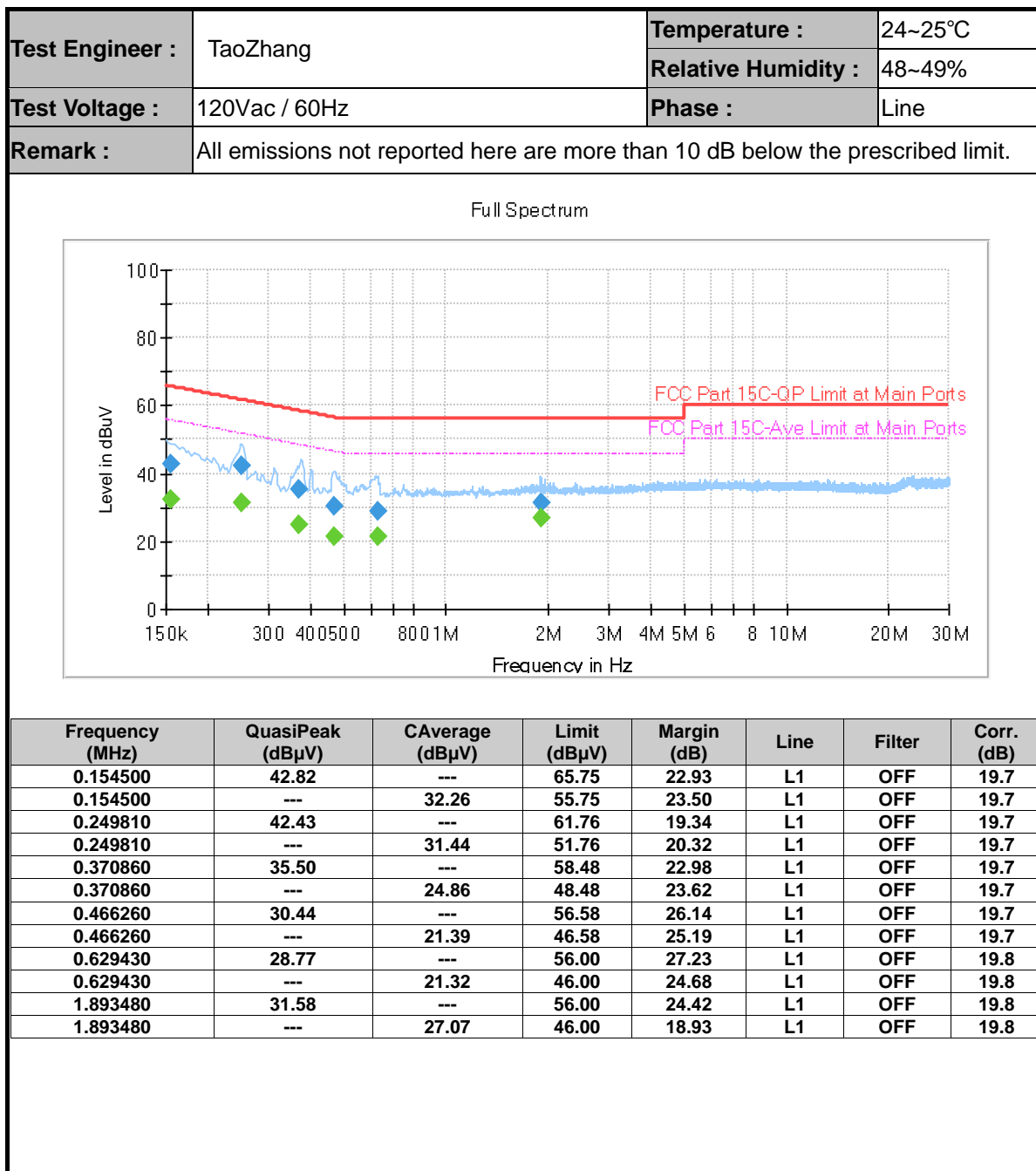
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
Zigbee	250K	1	11	2405	0.00	15.50	30.00	4.00	19.50	36.00	Pass
Zigbee	250K	1	17	2435	0.00	15.20	30.00	4.00	19.20	36.00	Pass
Zigbee	250K	1	25	2475	0.00	15.00	30.00	4.00	19.00	36.00	Pass
Zigbee	250K	1	26	2480	0.00	-1.20	30.00	4.00	2.80	36.00	Pass

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	12.61	0.59	4.00	8.00	Pass
Zigbee	250K	1	17	2435	11.96	0.95	4.00	8.00	Pass
Zigbee	250K	1	25	2475	11.75	-0.22	4.00	8.00	Pass
Zigbee	250K	1	26	2480	-4.08	-15.45	4.00	8.00	Pass

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

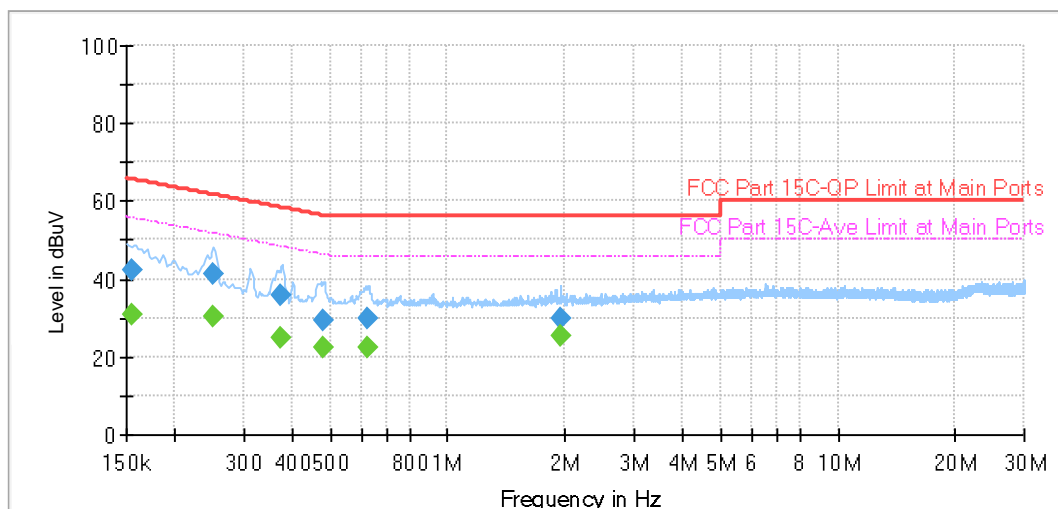
Appendix B. AC Conducted Emission Test Results





Test Engineer :	TaoZhang	Temperature :	24~25°C
		Relative Humidity :	48~49%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	42.43	---	65.75	23.32	N	OFF	19.7
0.154500	---	31.06	55.75	24.69	N	OFF	19.7
0.250530	41.47	---	61.74	20.27	N	OFF	19.7
0.250530	---	30.33	51.74	21.41	N	OFF	19.7
0.373470	35.76	---	58.42	22.66	N	OFF	19.7
0.373470	---	24.84	48.42	23.58	N	OFF	19.7
0.477690	29.24	---	56.38	27.14	N	OFF	19.7
0.477690	---	22.35	46.38	24.03	N	OFF	19.7
0.620250	29.65	---	56.00	26.35	N	OFF	19.7
0.620250	---	22.58	46.00	23.42	N	OFF	19.7
1.951080	29.76	---	56.00	26.24	N	OFF	19.8
1.951080	---	25.25	46.00	20.75	N	OFF	19.8



Appendix C. Radiated Spurious Emission

Test Engineer :	Shun ping You	Temperature :	24~25°C
		Relative Humidity :	48~49%

2.4GHz 2400~2483.5MHz

Zigbee (Band Edge @ 3m)

Zigbee	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
Zigbee CH11 2405MHz		2356.935	53.31	-20.69	74	46.45	32.34	6.37	31.85	182	280	P	H
		2389.065	42.51	-11.49	54	35.44	32.36	6.44	31.73	182	280	A	H
	*	2405	104.23	-	-	97.15	32.37	6.44	31.73	182	280	P	H
	*	2405	102.29	-	-	95.21	32.37	6.44	31.73	182	280	A	H
		2388.75	54.86	-19.14	74	47.79	32.36	6.44	31.73	116	56	P	V
		2390	43.98	-10.02	54	36.91	32.36	6.44	31.73	116	56	A	V
	*	2405	111.41	-	-	104.33	32.37	6.44	31.73	116	56	P	V
	*	2405	109.56	-	-	102.48	32.37	6.44	31.73	116	56	A	V
Zigbee CH17 2437MHz		2382.94	54.41	-19.59	74	47.48	32.35	6.37	31.79	198	280	P	H
		2389.94	42.52	-11.48	54	35.45	32.36	6.44	31.73	198	280	A	H
	*	2435	105.63	-	-	98.45	32.37	6.48	31.67	198	280	P	H
	*	2435	103.8	-	-	96.62	32.37	6.48	31.67	198	280	A	H
		2486.49	52.8	-21.2	74	45.44	32.39	6.53	31.56	198	280	P	H
		2483.5	42.61	-11.39	54	35.25	32.39	6.53	31.56	198	280	A	H
		2385.88	54.92	-19.08	74	47.85	32.36	6.44	31.73	112	36	P	V
		2389.8	45.05	-8.95	54	37.98	32.36	6.44	31.73	112	36	A	V
	*	2435	111.95	-	-	104.77	32.37	6.48	31.67	112	36	P	V
	*	2435	110.18	-	-	103	32.37	6.48	31.67	112	36	A	V
		2487.68	54.29	-19.71	74	46.92	32.4	6.53	31.56	112	36	P	V
		2483.5	44.52	-9.48	54	37.16	32.39	6.53	31.56	112	36	A	V



Zigbee CH25 2475MHz	*	2475	104.26	-	-	96.9	32.39	6.53	31.56	185	280	P	H
	*	2475	102.41	-	-	95.05	32.39	6.53	31.56	185	280	A	H
		2483.72	54.64	-19.36	74	47.28	32.39	6.53	31.56	185	280	P	H
		2483.52	45.03	-8.97	54	37.67	32.39	6.53	31.56	185	280	A	H
	*	2475	111.5	-	-	104.14	32.39	6.53	31.56	117	31	P	V
	*	2475	109.7	-	-	102.34	32.39	6.53	31.56	117	31	A	V
		2483.88	57.62	-16.38	74	50.26	32.39	6.53	31.56	117	31	P	V
		2484.04	48.61	-5.39	54	41.25	32.39	6.53	31.56	117	31	A	V
Zigbee CH26 2480MHz	*	2480	89.62	-	-	82.26	32.39	6.53	31.56	100	70	P	H
	*	2480	87.62	-	-	80.26	32.39	6.53	31.56	100	70	A	H
		2483.6	54.22	-19.78	74	46.86	32.39	6.53	31.56	100	70	P	H
		2483.52	46.74	-7.26	54	39.38	32.39	6.53	31.56	100	70	A	H
	*	2480	96.44	-	-	89.08	32.39	6.53	31.56	101	61	P	V
	*	2480	93.52	-	-	86.16	32.39	6.53	31.56	101	61	A	V
		2483.52	56.69	-17.31	74	49.33	32.39	6.53	31.56	101	61	P	V
		2483.52	50.78	-3.22	54	43.42	32.39	6.53	31.56	101	61	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

Zigbee (Harmonic @ 3m)

Zigbee	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
					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)
Zigbee CH11 2405MHz		4810	46.21	-27.79	74	60.23	34.41	9.47	57.9	100	24	P	H
		4810	40.18	-13.82	54	54.2	34.41	9.47	57.9	100	24	A	H
		4810	45.6	-28.4	74	59.62	34.41	9.47	57.9	124	36	P	V
		4810	40.1	-13.9	54	54.12	34.41	9.47	57.9	124	36	A	V
Zigbee CH17 2437MHz		4870	45.2	-28.8	74	59.23	34.37	9.5	57.9	100	64	P	H
		4870	41.65	-12.35	54	55.68	34.37	9.5	57.9	100	64	A	H
		7305	46.43	-27.57	74	58.61	36.05	11.24	59.47	100	35	P	H
		7305	41.94	-12.06	54	54.12	36.05	11.24	59.47	100	35	A	H
		4870	44.94	-29.06	74	58.97	34.37	9.5	57.9	134	26	P	V
		4870	40.33	-13.67	54	54.36	34.37	9.5	57.9	134	26	A	V



		7305	46.46	-27.54	74	58.64	36.05	11.24	59.47	100	52	P	V
		7305	41.07	-12.93	54	53.25	36.05	11.24	59.47	100	52		V
Zigbee CH25 2475MHz		4950	45.61	-28.39	74	59.62	34.33	9.56	57.9	100	35	P	H
		4950	40.25	-13.75	54	54.26	34.33	9.56	57.9	100	35	A	H
		7425	46.06	-27.94	74	58.62	35.96	11.29	59.81	100	36	P	H
		7425	41.54	-12.46	54	54.1	35.96	11.29	59.81	100	36	A	H
		4950	44.63	-29.37	74	58.64	34.33	9.56	57.9	124	36	P	V
		4950	40.11	-13.89	54	54.12	34.33	9.56	57.9	124	36	A	V
		7425	46.12	-27.88	74	58.68	35.96	11.29	59.81	124	68	P	V
		7425	42.06	-11.94	54	54.62	35.96	11.29	59.81	124	68	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Zigbee	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
Zigbee CH26 2480MHz		4960	45.65	-28.35	74	59.64	34.32	9.59	57.9	100	36	P	H
		4960	40.68	-13.32	54	54.67	34.32	9.59	57.9	100	36	A	H
		7440	46.02	-27.98	74	58.65	35.94	11.29	59.86	100	66	P	H
		7440	41.38	-12.62	54	54.01	35.94	11.29	59.86	100	66	A	H
		4960	44.65	-29.35	74	58.64	34.32	9.59	57.9	100	36	P	V
		4960	40.33	-13.67	54	54.32	34.32	9.59	57.9	100	36	A	V
		7440	46.05	-27.95	74	58.68	35.94	11.29	59.86	124	60	P	V
		7440	41.59	-12.41	54	54.22	35.94	11.29	59.86	124	60	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz Zigbee (LF)

BLE	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
					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)
2.4GHz BLE LF		89.17	21.04	-22.46	43.5	41.2	14.04	0.98	35.18	-	-	P	H
		134.76	23.65	-19.85	43.5	38.97	18.6	1.21	35.13	-	-	P	H
		196.84	25.73	-17.77	43.5	42.87	16.51	1.45	35.1	-	-	P	H
		317.12	31.19	-14.81	46	44.06	20.15	1.88	34.9	-	-	P	H
		569.32	24.09	-21.91	46	30.89	25.17	2.59	34.56	-	-	P	H
		974.78	29.48	-24.52	54	30.21	29.99	3.43	34.15	-	-	P	H
		90.14	28.95	-14.55	43.5	49.23	13.92	0.98	35.18	-	-	P	V
		196.84	26.01	-17.49	43.5	43.15	16.51	1.45	35.1	-	-	P	V
		325.85	22.59	-23.41	46	35.15	20.44	1.9	34.9	-	-	P	V
		454.86	23.62	-22.38	46	32.81	23.24	2.27	34.7	-	-	P	V
		709	26.03	-19.97	46	30.59	27.04	2.88	34.48	-	-	P	V
		898.15	28.36	-17.64	46	30.23	29.11	3.32	34.3	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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



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

BLE	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)

2. Level(dBμV/m) =

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

3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Margin (dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Margin (dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



Appendix D. Radiated Spurious Emission Plots

Note symbol

-L	Low channel location
-R	High channel location



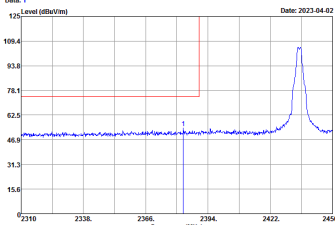
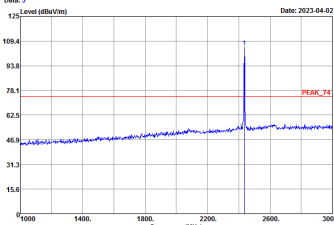
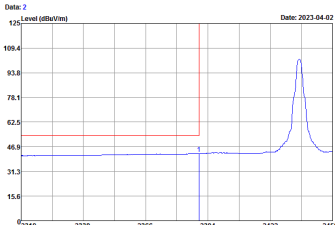
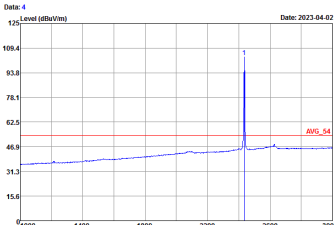
2.4GHz 2400~2483.5MHz
Zigbee (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	Zigbee CH11 2405MHz	
1	Horizontal	Fundamental
Peak	<div><div><div>Date: 1</div><div>Level (dBuV/m)</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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BLE		2.4GHz 2400~2483.5MHz Band Edge @ 3m									
ANT		Zigbee CH11 2405MHz									
1		Vertical					Fundamental				
Peak	<div><div><div>Date: 5</div><div>Level (dBuV/m)</div></div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																							
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Peak	<div><div>Date: 1</div><div>Level (dBuV/m)</div><div>Date: 2023-04-02</div></div> <div><div>Site: 03CH02-SZ</div><div>Condition: PEAK_BLE_74 3m HF_ANT_3117_0107 HORIZONTAL</div><div>Project: RSNV 1000 0000Hz VSW 3000 0000Hz</div><div>Mode: 202209-01</div><div>Mode: 2</div><div>SN: G082MM033087000K</div><div>Plane: Y with Accessories</div><div>power setting 15</div></div> <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Hz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2382.94</td><td>54.41</td><td>-19.59</td><td>74.88</td><td>47.48</td><td>32.35</td><td>6.37</td><td>31.79</td><td>198</td><td>288</td><td>Peak</td></tr></tbody></table>					Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Hz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2382.94	54.41	-19.59	74.88	47.48	32.35	6.37	31.79	198	288	Peak	<div><div>Date: 3</div><div>Level (dBuV/m)</div><div>Date: 2023-04-02</div></div> <div><div>Site: 03CH02-SZ</div><div>Condition: PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL</div><div>Project: RSNV 1000 0000Hz VSW 3000 0000Hz</div><div>Mode: 202209-01</div><div>Mode: 2</div><div>SN: G082MM033087000K</div><div>Plane: Y with Accessories</div><div>power setting 15</div></div> <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Hz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2435.00</td><td>105.63</td><td>31.63</td><td>74.88</td><td>98.45</td><td>32.37</td><td>6.48</td><td>31.67</td><td>198</td><td>288</td><td>Peak</td></tr></tbody></table>					Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Hz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2435.00	105.63	31.63	74.88	98.45	32.37	6.48	31.67	198	288	Peak
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Peak	<div><div><div>Date: 5</div><div>Level (dBuV/m)</div><div><div><div>120</div><div>109.4</div><div>93.8</div><div>78.1</div><div>62.5</div><div>46.9</div><div>31.3</div><div>15.6</div></div><div><div>2430</div><div>2444</div><div>2458</div><div>2472</div><div>2486</div><div>2500</div></div><div>Frequency (MHz)</div></div><div><div>120</div><div>109.4</div><div>93.8</div><div>78.1</div><div>62.5</div><div>46.9</div><div>31.3</div><div>15.6</div></div><div><div>2430</div><div>2444</div><div>2458</div><div>2472</div><div>2486</div><div>2500</div></div><div>Frequency (MHz)</div></div><div><div>120</div><div>109.4</div><div>93.8</div><div>78.1</div><div>62.5</div><div>46.9</div><div>31.3</div><div>15.6</div></div><div><div>2430</div><div>2444</div><div>2458</div><div>2472</div><div>2486</div><div>2500</div></div><div>Frequency (MHz)</div></div> <div><div>120</div><div>109.4</div><div>93.8</div><div>78.1</div><div>62.5</div><div>46.9</div><div>31.3</div><div>15.6</div></div> 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BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																															
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Peak	<div><p>Date: 7</p><p>Date: 2023-04-02</p><p>Site : 03CH02-SZ Condition : PEAK_BE_74.3m HF_ANT_3117_0107 VERTICAL RBNV: 1000.000kHz VBW: 3000.000kHz Project : 2IG2209-01 Mode : Mode 2 SN : GSE2NMA0233087000K Plane : Y with Accessories power setting 15</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2385.88</td><td>54.92</td><td>-19.88</td><td>74.00</td><td>47.85</td><td>32.36</td><td>6.44</td><td>31.73</td><td>112</td><td>36 Peak</td></tr></table></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2385.88	54.92	-19.88	74.00	47.85	32.36	6.44	31.73	112	36 Peak	<div><p>Date: 9</p><p>Date: 2023-04-02</p><p>Site : 03CH02-SZ Condition : PEAK_74.3m HF_ANT_3117_0107 VERTICAL RBNV: 1000.000kHz VBW: 3000.000kHz Project : 2IG2209-01 Mode : Mode 2 SN : GSE2NMA0233087000K Plane : Y with Accessories power setting 15</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2435.00</td><td>111.95</td><td>37.95</td><td>74.00</td><td>104.77</td><td>32.37</td><td>6.48</td><td>31.67</td><td>112</td><td>36 Peak</td></tr></table></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2435.00	111.95	37.95	74.00	104.77	32.37	6.48	31.67	112	36 Peak
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FCC RF Test Report

Report No. : FR2N2209-01C

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m																															
ANT	Zigbee CH17 2437MHz - R																															
1	Vertical	Fundamental																														
Peak	<div><div><div>Date: 11</div><div>Level (dBuV/m)</div><div><div>Date: 2023-04-02</div><div>PEAK_BE_74</div></div></div><div><div>Site : 03CH02-SZ</div><div>Condition : PEAK_BE_74 3m HF_ANT_3117_0107 VERTICAL</div><div>RSW: 1000.000kHz VBW: 3000.000kHz</div><div>Project : ZIG2209-01</div><div>Mode : Mode 2</div><div>SN : GSE2NMA033087000K</div><div>Plane : Y with Accessories</div><div>power setting 15</div></div><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2487.68</td><td>54.29</td><td>-19.71</td><td>74.00</td><td>46.92</td><td>32.40</td><td>6.53</td><td>31.56</td><td>112 36 Peak</td></tr></table></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2487.68	54.29	-19.71	74.00	46.92	32.40	6.53	31.56	112 36 Peak	Left blank
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																							
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Avg.	<div><div><div>Date: 12</div><div>Level (dBuV/m)</div><div><div>Date: 2023-04-02</div><div>AVG_BE_54</div></div></div><div><div>Site : 03CH02-SZ</div><div>Condition : AVG_BE_54 3m HF_ANT_3117_0107 VERTICAL</div><div>RSW: 1000.000kHz VBW: 0.0100kHz</div><div>Project : ZIG2209-01</div><div>Mode : Mode 2</div><div>SN : GSE2NMA033087000K</div><div>Plane : Y with Accessories</div><div>power setting 15</div></div><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2483.58</td><td>44.52</td><td>-9.48</td><td>54.00</td><td>37.16</td><td>32.39</td><td>6.53</td><td>31.56</td><td>112 36 Average</td></tr></table></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2483.58	44.52	-9.48	54.00	37.16	32.39	6.53	31.56	112 36 Average	Left blank
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BLE		2.4GHz 2400~2483.5MHz Band Edge @ 3m									
ANT		Zigbee CH25 2475MHz									
1		Horizontal					Fundamental				
Peak	<div><div><div>Date: 3</div><div>Level (dBuV/m)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																															
ANT	Zigbee CH25 2475MHz																																																															
1	Vertical	Fundamental																																																														
Peak	<div><p>Date: 7</p><p>Level (dBuV/m)</p><p>Date: 2023-04-02</p><p>Site : 03CH02-SZ Condition : PEAK_BE_74 3m HF_ANT_3117_0107 VERTICAL RBNV 1000.000kHz VBW 3000.000kHz Project : 2IG2209-01 Mode : Mode 3 SN : GSE2MM033087000K Plane : Y with Accessories power setting 15</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2483.88</td><td>57.62</td><td>-16.38</td><td>74.00</td><td>59.26</td><td>32.39</td><td>6.53</td><td>31.56</td><td>117</td><td>31 Peak</td></tr></table></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2483.88	57.62	-16.38	74.00	59.26	32.39	6.53	31.56	117	31 Peak	<div><p>Date: 5</p><p>Level (dBuV/m)</p><p>Date: 2023-04-02</p><p>Site : 03CH02-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL RBNV 1000.000kHz VBW 3000.000kHz Project : 2IG2209-01 Mode : Mode 3 SN : GSE2MM033087000K Plane : Y with Accessories power setting 15</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2475.00</td><td>111.58</td><td>37.58</td><td>74.00</td><td>104.14</td><td>32.39</td><td>6.53</td><td>31.56</td><td>117</td><td>31 Peak</td></tr></table></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2475.00	111.58	37.58	74.00	104.14	32.39	6.53	31.56	117	31 Peak
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Avg.	<div><p>Date: 8</p><p>Level (dBuV/m)</p><p>Date: 2023-04-02</p><p>Site : 03CH02-SZ Condition : AVG_BE_54 3m HF_ANT_3117_0107 VERTICAL RBNV 1000.000kHz VBW 0.010kHz Project : 2IG2209-01 Mode : Mode 3 SN : GSE2MM033087000K Plane : Y with Accessories power setting 15</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2484.04</td><td>48.61</td><td>-5.39</td><td>54.00</td><td>41.25</td><td>32.39</td><td>6.53</td><td>31.56</td><td>117</td><td>31 Average</td></tr></table></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2484.04	48.61	-5.39	54.00	41.25	32.39	6.53	31.56	117	31 Average	<div><p>Date: 6</p><p>Level (dBuV/m)</p><p>Date: 2023-04-02</p><p>Site : 03CH02-SZ Condition : AVG_54 3m HF_ANT_3117_0107 VERTICAL RBNV 1000.000kHz VBW 0.010kHz Project : 2IG2209-01 Mode : Mode 3 SN : GSE2MM033087000K Plane : Y with Accessories power setting 15</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2475.00</td><td>189.78</td><td>55.78</td><td>54.00</td><td>182.34</td><td>32.39</td><td>6.53</td><td>31.56</td><td>117</td><td>31 Average</td></tr></table></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2475.00	189.78	55.78	54.00	182.34	32.39	6.53	31.56	117	31 Average
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Peak	<div><div><div>Date: 15</div><div>Date: 2023-04-03</div></div><div></div><div><div>Site : 03CH02-SZ Condition : PEAK_BE_74 3m HF_ANT_3117_0107 HORIZONTAL RBNV 1000.000kHz VBW 3000.000kHz Project : ZIG2209-01 Mode : Mode 4 SN : GSEZMM033087000K Plane : Y with Accessories power setting 1</div><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2483.68</td><td>54.22</td><td>-19.78</td><td>74.00</td><td>46.86</td><td>32.39</td><td>6.53</td><td>31.56</td><td>100 70 Peak</td></tr></table></div></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	2483.68	54.22	-19.78	74.00	46.86	32.39	6.53	31.56	100 70 Peak	<div><div><div>Date: 13</div><div>Date: 2023-04-03</div></div><div></div><div><div>Site : 03CH02-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL RBNV 1000.000kHz VBW 3000.000kHz Project : ZIG2209-01 Mode : Mode 4 SN : GSEZMM033087000K Plane : Y with Accessories power setting 1</div><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2480.00</td><td>89.62</td><td>15.62</td><td>74.00</td><td>82.26</td><td>32.39</td><td>6.53</td><td>31.56</td><td>100 70 Peak</td></tr></table></div></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	2480.00	89.62	15.62	74.00	82.26	32.39	6.53	31.56	100 70 Peak
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1	2480.00	89.62	15.62	74.00	82.26	32.39	6.53	31.56	100 70 Peak																																																					
Avg.	<div><div><div>Date: 16</div><div>Date: 2023-04-03</div></div><div></div><div><div>Site : 03CH02-SZ Condition : AVG_BE_54 3m HF_ANT_3117_0107 HORIZONTAL RBNV 1000.000kHz VBW 0.010kHz Project : ZIG2209-01 Mode : Mode 4 SN : GSEZMM033087000K Plane : Y with Accessories power setting 1</div><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2483.52</td><td>46.74</td><td>-7.26</td><td>54.00</td><td>39.38</td><td>32.39</td><td>6.53</td><td>31.56</td><td>100 70 Average</td></tr></table></div></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	2483.52	46.74	-7.26	54.00	39.38	32.39	6.53	31.56	100 70 Average	<div><div><div>Date: 14</div><div>Date: 2023-04-03</div></div><div></div><div><div>Site : 03CH02-SZ Condition : AVG_54 3m HF_ANT_3117_0107 HORIZONTAL RBNV 1000.000kHz VBW 0.010kHz Project : ZIG2209-01 Mode : Mode 4 SN : GSEZMM033087000K Plane : Y with Accessories power setting 1</div><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2480.00</td><td>87.62</td><td>33.62</td><td>54.00</td><td>80.26</td><td>32.39</td><td>6.53</td><td>31.56</td><td>100 70 Average</td></tr></table></div></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	2480.00	87.62	33.62	54.00	80.26	32.39	6.53	31.56	100 70 Average
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																					
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1	2480.00	87.62	33.62	54.00	80.26	32.39	6.53	31.56	100 70 Average																																																					



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	Zigbee CH26 2480MHz	
1	Vertical	Fundamental
Peak	<div><div><div>Date: 19</div><div>Level (dBuV/m)</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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2.4GHz 2400~2483.5MHz

Zigbee (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																	
ANT	Zigbee CH11 2405MHz																																																																																	
1	Horizontal	Vertical																																																																																
Peak Avg.	<div><p>Date: 15</p><p>Site : 03CH02-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL Project : 242209-01 Mode : Mode 1 SN : G0E2MM033087000K Plane : Y with Accessories power setting 15</p><table><tr><th>Freq</th><th>Level</th><th>Unit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4818.88</td><td>46.11</td><td>-27.79</td><td>74.88</td><td>69.23</td><td>34.41</td><td>9.47</td><td>57.98</td><td>180</td><td>24 Peak</td></tr><tr><td>2</td><td>4818.88</td><td>48.18</td><td>-13.82</td><td>54.88</td><td>54.28</td><td>34.41</td><td>9.47</td><td>57.98</td><td>180</td><td>24 Average</td></tr></table></div>	Freq	Level	Unit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	4818.88	46.11	-27.79	74.88	69.23	34.41	9.47	57.98	180	24 Peak	2	4818.88	48.18	-13.82	54.88	54.28	34.41	9.47	57.98	180	24 Average	<div><p>Date: 16</p><p>Site : 03CH02-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL Project : 242209-01 Mode : Mode 1 SN : G0E2MM033087000K Plane : Y with Accessories power setting 15</p><table><tr><th>Freq</th><th>Level</th><th>Unit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4818.88</td><td>45.69</td><td>-28.48</td><td>74.88</td><td>59.62</td><td>34.41</td><td>9.47</td><td>57.98</td><td>124</td><td>36 Peak</td></tr><tr><td>2</td><td>4818.88</td><td>48.18</td><td>-13.98</td><td>54.88</td><td>54.12</td><td>34.41</td><td>9.47</td><td>57.98</td><td>124</td><td>36 Average</td></tr></table></div>	Freq	Level	Unit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	4818.88	45.69	-28.48	74.88	59.62	34.41	9.47	57.98	124	36 Peak	2	4818.88	48.18	-13.98	54.88	54.12	34.41	9.47	57.98	124	36 Average
	Freq	Level	Unit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																									
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BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																																																									
ANT	Zigbee CH17 2435MHz																																																																																																																									
1	Horizontal	Vertical																																																																																																																								
Peak Avg.	<div><p>Date: 19 Level (dBuV/m)</p><p>Date: 2023-04-20</p><p>Site : 03CH02-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : Mode 2 SN : G9E2M033007000K Plane : Y with Accessories power setting 15</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4878.00</td><td>45.28</td><td>-28.80</td><td>74.00</td><td>59.23</td><td>34.37</td><td>9.58</td><td>57.98</td><td>64 Peak</td></tr><tr><td>2</td><td>4878.00</td><td>41.95</td><td>-12.35</td><td>54.00</td><td>55.68</td><td>34.37</td><td>9.58</td><td>57.98</td><td>64 Average</td></tr><tr><td>3</td><td>7385.00</td><td>46.43</td><td>-27.57</td><td>74.00</td><td>58.61</td><td>36.85</td><td>11.24</td><td>59.47</td><td>100 35 Peak</td></tr><tr><td>4</td><td>7385.00</td><td>41.94</td><td>-12.06</td><td>54.00</td><td>54.12</td><td>36.85</td><td>11.24</td><td>59.47</td><td>100 35 Average</td></tr></table></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg		1	4878.00	45.28	-28.80	74.00	59.23	34.37	9.58	57.98	64 Peak	2	4878.00	41.95	-12.35	54.00	55.68	34.37	9.58	57.98	64 Average	3	7385.00	46.43	-27.57	74.00	58.61	36.85	11.24	59.47	100 35 Peak	4	7385.00	41.94	-12.06	54.00	54.12	36.85	11.24	59.47	100 35 Average	<div><p>Date: 20 Level (dBuV/m)</p><p>Date: 2023-04-20</p><p>Site : 03CH02-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 2 SN : G9E2M033007000K Plane : Y with Accessories power setting 15</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4878.00</td><td>44.94</td><td>-29.85</td><td>74.00</td><td>58.97</td><td>34.37</td><td>9.58</td><td>57.98</td><td>134 26 Peak</td></tr><tr><td>2</td><td>4878.00</td><td>40.71</td><td>-13.67</td><td>54.00</td><td>54.36</td><td>34.37</td><td>9.58</td><td>57.98</td><td>134 26 Average</td></tr><tr><td>3</td><td>7385.00</td><td>46.46</td><td>-27.54</td><td>74.00</td><td>58.64</td><td>36.85</td><td>11.24</td><td>59.47</td><td>100 52 Peak</td></tr><tr><td>4</td><td>7385.00</td><td>41.87</td><td>-12.93</td><td>54.00</td><td>53.25</td><td>36.85</td><td>11.24</td><td>59.47</td><td>100 52 Average</td></tr></table></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg		1	4878.00	44.94	-29.85	74.00	58.97	34.37	9.58	57.98	134 26 Peak	2	4878.00	40.71	-13.67	54.00	54.36	34.37	9.58	57.98	134 26 Average	3	7385.00	46.46	-27.54	74.00	58.64	36.85	11.24	59.47	100 52 Peak	4	7385.00	41.87	-12.93	54.00	53.25	36.85	11.24	59.47	100 52 Average
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																	
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BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																																																																	
ANT	Zigbee CH25 2475MHz																																																																																																																																	
1	Horizontal					Vertical																																																																																																																												
Peak	<div><p>Date: 15 Level (dBuV/m)</p><p>PEAK_74 AVG_54</p><p>Site : 03CH02-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : Mode 3 SN : G9E2MM033007000K Plane : Y with Accessories power setting 15</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4958.00</td><td>45.63</td><td>-29.39</td><td>74.00</td><td>59.62</td><td>34.33</td><td>9.56</td><td>57.90</td><td>36 Peak</td></tr><tr><td>2</td><td>4958.00</td><td>48.25</td><td>-13.75</td><td>54.00</td><td>54.12</td><td>34.33</td><td>9.56</td><td>57.90</td><td>36 Average</td></tr><tr><td>3</td><td>7425.00</td><td>46.00</td><td>-27.94</td><td>74.00</td><td>58.62</td><td>35.96</td><td>11.29</td><td>59.81</td><td>36 Peak</td></tr><tr><td>4</td><td>7425.00</td><td>41.54</td><td>-12.46</td><td>54.00</td><td>54.18</td><td>35.96</td><td>11.29</td><td>59.81</td><td>36 Average</td></tr></table></div>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	4958.00	45.63	-29.39	74.00	59.62	34.33	9.56	57.90	36 Peak	2	4958.00	48.25	-13.75	54.00	54.12	34.33	9.56	57.90	36 Average	3	7425.00	46.00	-27.94	74.00	58.62	35.96	11.29	59.81	36 Peak	4	7425.00	41.54	-12.46	54.00	54.18	35.96	11.29	59.81	36 Average	<div><p>Date: 16 Level (dBuV/m)</p><p>PEAK_74 AVG_54</p><p>Site : 03CH02-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 3 SN : G9E2MM033007000K Plane : Y with Accessories power setting 15</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4958.00</td><td>44.63</td><td>-29.37</td><td>74.00</td><td>58.64</td><td>34.33</td><td>9.56</td><td>57.90</td><td>36 Peak</td></tr><tr><td>2</td><td>4958.00</td><td>48.11</td><td>-13.89</td><td>54.00</td><td>54.12</td><td>34.33</td><td>9.56</td><td>57.90</td><td>36 Average</td></tr><tr><td>3</td><td>7425.00</td><td>48.12</td><td>-27.88</td><td>74.00</td><td>58.68</td><td>35.96</td><td>11.29</td><td>59.81</td><td>36 Peak</td></tr><tr><td>4</td><td>7425.00</td><td>42.86</td><td>-11.94</td><td>54.00</td><td>54.62</td><td>35.96</td><td>11.29</td><td>59.81</td><td>36 Average</td></tr></table></div>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	4958.00	44.63	-29.37	74.00	58.64	34.33	9.56	57.90	36 Peak	2	4958.00	48.11	-13.89	54.00	54.12	34.33	9.56	57.90	36 Average	3	7425.00	48.12	-27.88	74.00	58.68	35.96	11.29	59.81	36 Peak	4	7425.00	42.86	-11.94	54.00	54.62	35.96	11.29	59.81	36 Average
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																								
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BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																																																																									
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Peak	<div><p>Date: 31</p><p>Site : 03CH02-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : Mode 4 SN : GSE2MM13007000K Plane : Y with Accessories power setting 1</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4968.00</td><td>45.65</td><td>-28.35</td><td>74.00</td><td>59.64</td><td>34.32</td><td>9.59</td><td>57.00</td><td>100</td><td>36 Peak</td></tr><tr><td>2</td><td>4968.00</td><td>46.68</td><td>-13.32</td><td>54.00</td><td>54.67</td><td>34.32</td><td>9.59</td><td>57.00</td><td>100</td><td>36 Average</td></tr><tr><td>3</td><td>7448.00</td><td>46.82</td><td>-27.08</td><td>74.00</td><td>58.65</td><td>35.94</td><td>11.29</td><td>59.86</td><td>100</td><td>66 Peak</td></tr><tr><td>4</td><td>7448.00</td><td>41.59</td><td>-12.61</td><td>54.00</td><td>54.01</td><td>35.94</td><td>11.29</td><td>59.86</td><td>100</td><td>66 Average</td></tr></table></div>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	4968.00	45.65	-28.35	74.00	59.64	34.32	9.59	57.00	100	36 Peak	2	4968.00	46.68	-13.32	54.00	54.67	34.32	9.59	57.00	100	36 Average	3	7448.00	46.82	-27.08	74.00	58.65	35.94	11.29	59.86	100	66 Peak	4	7448.00	41.59	-12.61	54.00	54.01	35.94	11.29	59.86	100	66 Average	<div><p>Date: 32</p><p>Site : 03CH02-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 4 SN : GSE2MM13007000K Plane : Y with Accessories power setting 1</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4968.00</td><td>44.65</td><td>-29.35</td><td>74.00</td><td>58.64</td><td>34.32</td><td>9.59</td><td>57.00</td><td>100</td><td>36 Peak</td></tr><tr><td>2</td><td>4968.00</td><td>46.31</td><td>-13.69</td><td>54.00</td><td>54.32</td><td>34.32</td><td>9.59</td><td>57.00</td><td>100</td><td>36 Average</td></tr><tr><td>3</td><td>7448.00</td><td>46.85</td><td>-27.05</td><td>74.00</td><td>58.68</td><td>35.94</td><td>11.29</td><td>59.86</td><td>124</td><td>66 Peak</td></tr><tr><td>4</td><td>7448.00</td><td>41.59</td><td>-12.41</td><td>54.00</td><td>54.22</td><td>35.94</td><td>11.29</td><td>59.86</td><td>124</td><td>66 Average</td></tr></table></div>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	4968.00	44.65	-29.35	74.00	58.64	34.32	9.59	57.00	100	36 Peak	2	4968.00	46.31	-13.69	54.00	54.32	34.32	9.59	57.00	100	36 Average	3	7448.00	46.85	-27.05	74.00	58.68	35.94	11.29	59.86	124	66 Peak	4	7448.00	41.59	-12.41	54.00	54.22	35.94	11.29	59.86	124	66 Average
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																																
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4	7448.00	41.59	-12.41	54.00	54.22	35.94	11.29	59.86	124	66 Average																																																																																																																																



Emission below 1GHz

Zigbee (LF)

BLE	2.4GHz 2400~2483.5MHz																																																																																																																																																																	
ANT	Zigbee LF																																																																																																																																																																	
1	Horizontal	Vertical																																																																																																																																																																
QP / Peak	<div><p>Data: 1</p><p>Site : 03CH02-SZ Condition : FCC CLASS-B 3m VULB9168-01001 HORIZONTAL Project : 2N2209-01 Mode : Mode 5 SN : 6082AM033087000K Plane : Y with Accessories power setting 1</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>89.17</td><td>21.84</td><td>-22.46</td><td>43.58</td><td>41.28</td><td>14.84</td><td>0.98</td><td>35.18</td><td>Peak</td></tr><tr><td>2</td><td>134.76</td><td>23.55</td><td>-13.35</td><td>43.58</td><td>38.97</td><td>18.68</td><td>1.12</td><td>35.13</td><td>Peak</td></tr><tr><td>3</td><td>195.84</td><td>25.73</td><td>-17.77</td><td>43.58</td><td>42.87</td><td>16.51</td><td>1.45</td><td>35.18</td><td>Peak</td></tr><tr><td>4</td><td>337.12</td><td>31.35</td><td>-14.15</td><td>46.88</td><td>44.86</td><td>28.15</td><td>1.88</td><td>34.88</td><td>Peak</td></tr><tr><td>5</td><td>569.32</td><td>24.89</td><td>-21.91</td><td>46.88</td><td>38.89</td><td>25.17</td><td>2.59</td><td>34.56</td><td>Peak</td></tr><tr><td>6</td><td>974.78</td><td>25.48</td><td>-25.12</td><td>54.88</td><td>38.21</td><td>25.99</td><td>3.43</td><td>34.15</td><td>Peak</td></tr></table></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	89.17	21.84	-22.46	43.58	41.28	14.84	0.98	35.18	Peak	2	134.76	23.55	-13.35	43.58	38.97	18.68	1.12	35.13	Peak	3	195.84	25.73	-17.77	43.58	42.87	16.51	1.45	35.18	Peak	4	337.12	31.35	-14.15	46.88	44.86	28.15	1.88	34.88	Peak	5	569.32	24.89	-21.91	46.88	38.89	25.17	2.59	34.56	Peak	6	974.78	25.48	-25.12	54.88	38.21	25.99	3.43	34.15	Peak	<div><p>Data: 2</p><p>Site : 03CH02-SZ Condition : FCC CLASS-B 3m VULB9168-01001 VERTICAL Project : 2N2209-01 Mode : Mode 5 SN : 6082AM033087000K Plane : Y with Accessories power setting 1</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>90.14</td><td>28.95</td><td>-14.55</td><td>43.58</td><td>49.13</td><td>13.92</td><td>0.98</td><td>35.18</td><td>Peak</td></tr><tr><td>2</td><td>136.84</td><td>30.81</td><td>-17.49</td><td>43.58</td><td>43.15</td><td>16.51</td><td>1.45</td><td>35.18</td><td>Peak</td></tr><tr><td>3</td><td>215.85</td><td>22.59</td><td>-23.41</td><td>46.88</td><td>35.15</td><td>28.44</td><td>1.98</td><td>34.98</td><td>Peak</td></tr><tr><td>4</td><td>454.86</td><td>23.65</td><td>-22.38</td><td>46.88</td><td>32.81</td><td>21.28</td><td>2.17</td><td>34.78</td><td>Peak</td></tr><tr><td>5</td><td>789.88</td><td>26.85</td><td>-19.97</td><td>46.88</td><td>38.59</td><td>27.88</td><td>2.88</td><td>34.48</td><td>Peak</td></tr><tr><td>6</td><td>888.15</td><td>18.16</td><td>-17.64</td><td>46.88</td><td>38.23</td><td>29.13</td><td>3.12</td><td>34.38</td><td>Peak</td></tr></table></div>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	90.14	28.95	-14.55	43.58	49.13	13.92	0.98	35.18	Peak	2	136.84	30.81	-17.49	43.58	43.15	16.51	1.45	35.18	Peak	3	215.85	22.59	-23.41	46.88	35.15	28.44	1.98	34.98	Peak	4	454.86	23.65	-22.38	46.88	32.81	21.28	2.17	34.78	Peak	5	789.88	26.85	-19.97	46.88	38.59	27.88	2.88	34.48	Peak	6	888.15	18.16	-17.64	46.88	38.23	29.13	3.12	34.38	Peak
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																																																								
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Appendix E. Duty Cycle Plots

Mode	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Zigbee	100	-	-	10Hz

Zigbee mode

