



FCC RF Test Report

APPLICANT : Amazon.com Services LLC
EQUIPMENT : Digital Media Receiver
MODEL NAME : MA49CA
FCC ID : 2A4DH-4935
STANDARD : 47 CFR Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Dec. 12, 2024 ~ Mar. 05, 2025

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

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

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR480602-01D	Rev. 01	Initial issue of report	Mar. 20, 2025
FR480602-01D	Rev. 02	Updated Section 4. List of Measuring Equipment This report is an update version, replacing the report issued on Mar. 20, 2025.	May 05, 2025



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	-	Pass	-
3.2	15.247(b)(3)	Output Power	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm/3kHz}$	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 3.47 dB at 2483.68 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 15.14 dB at 0.502988 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

Conformity Assessment Condition:

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

Disclaimer:

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



1 General Description

1.1 Applicant

Amazon.com Services LLC

410 Terry Avenue N Seattle, WA 98109-5210 United States

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	MA49CA
FCC ID	2A4DH-4935
SN Code	Conducted: PN43XJ0244770113 Conduction: GN441P0244770026 Radiation: GN114P0244770053 for Sample 1 GN441R0245060003 for Sample 2

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two type of EUT. The only difference between them is the manufacturer of WIFI module. Sample 1 with Vendor #1 WIFI module, Sample 2 with Vendor #2 WIFI module. According to the difference, we chose sample 1 to perform full test and sample 2 to verify the RSE worst cases of sample 1.

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	2405 MHz ~ 2480 MHz
Number of Channels	16
Channel Spacing	5 MHz
Carrier Frequency of Each Channel	2405 MHz, 2410MHz, ..., 2480MHz
Maximum Output Power to Antenna	14.44 dBm (0.0278 W)
99% Occupied Bandwidth	2.146MHz
Antenna Type / Gain	IFA Antenna type with gain 2.2 dBi
Type of Modulation	OQPSK

1.4 Modification of EUT

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

1.5 Testing Location

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

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH06-KS TH01-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH06-KS	AUDIX	E3	210616
2.	CO01-KS	AUDIX	E3	6.2009-8-24

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 v05
- ♦ 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 (X plane as worst plane) from all possible combinations.
- b. AC power line Conducted Emission was tested under maximum output power.

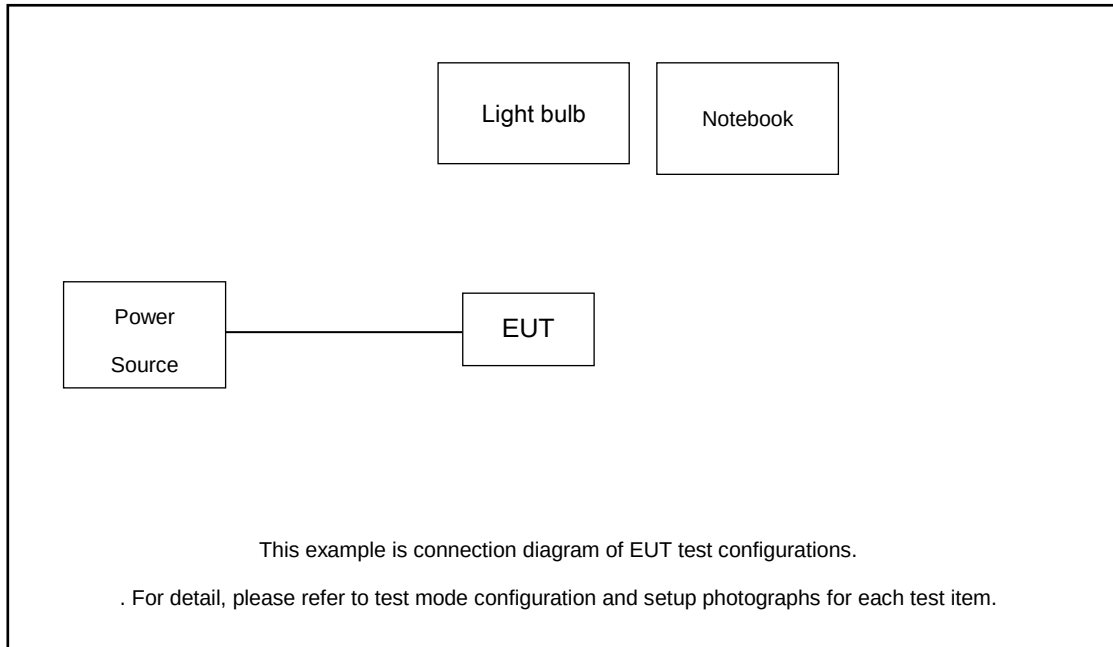
The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases	
Test Item	Data Rate / Modulation
	250kbps / Zigbee
Conducted TCs	Mode 1: Zigbee Tx CH11_2405 MHz
	Mode 2: Zigbee Tx CH19_2445 MHz
	Mode 3: Zigbee Tx CH25_2475 MHz
	Mode 4: Zigbee Tx CH26_2480 MHz
Radiated TCs	Mode 1: Zigbee Tx CH11_2405 MHz for Sample 1
	Mode 2: Zigbee Tx CH19_2445 MHz for Sample 1
	Mode 3: Zigbee Tx CH25_2475 MHz for Sample 1
	Mode 4: Zigbee Tx CH26_2480 MHz for Sample 1
	Mode 5: Zigbee Tx CH26_2480 MHz for Sample 2
AC Conducted Emission	Mode 1: Zigbee Link + WLAN Link(2.4G) + Powered by Adapter
Remark: For Radiated TCs, The tests were performance with Adapter 1.	

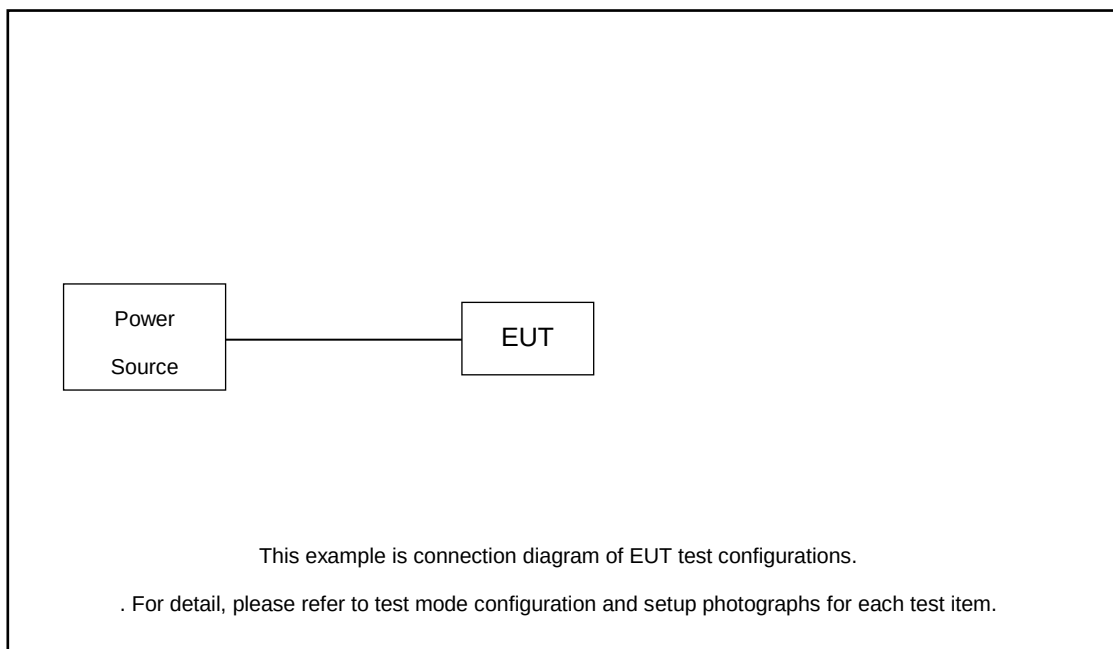
RSE Co-location
Zigbee CH26 2480MHz 250Kbps + Low Power Wideband Radio in Wi-Fi 5GHz 5800MHz

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station	CMW500	N/A	N/A	Unshielded,1.8m
2.	Notebook	V130-15IKB005	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
3.	Light bulb	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.

For AC power line conducted emissions, the EUT was set WIFI Link with notebook, zigbee Link with light bulb.

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 which are included in RF test system.

$$\text{Offset(dB)} = 22.19 \text{ (dB)}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

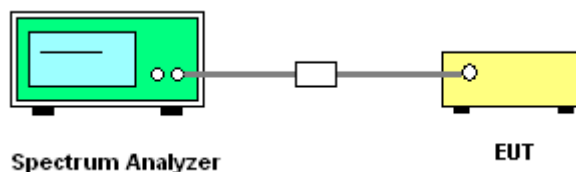
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 30kHz and set the Video bandwidth (VBW) = 100kHz.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Test data refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for 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.

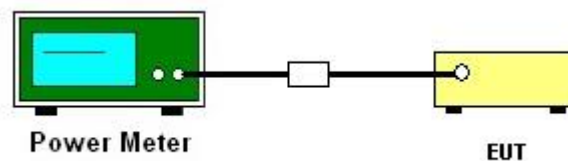
3.2.2 Measuring Instruments

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 11.9.2.3.1 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

Test data refers 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.

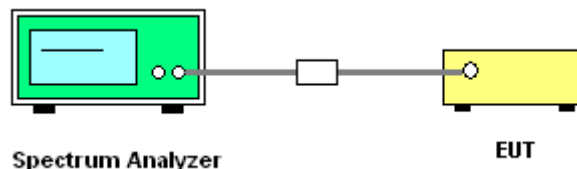
3.3.2 Measuring Instruments

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 11.10.3 Method AVGPSD.
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) = 10 kHz. Video bandwidth VBW = 30 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = RMS, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Test data refers to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

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

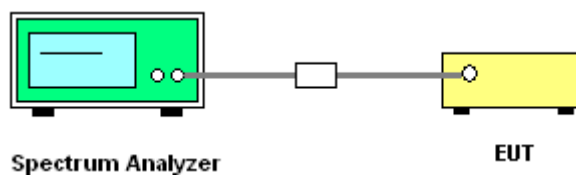
3.4.2 Measuring Instruments

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

3.4.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 11.13
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges Plots

Test data refers to Appendix A.

3.4.6 Test Result of Conducted Spurious Emission Plots

Test data refers to Appendix A.

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

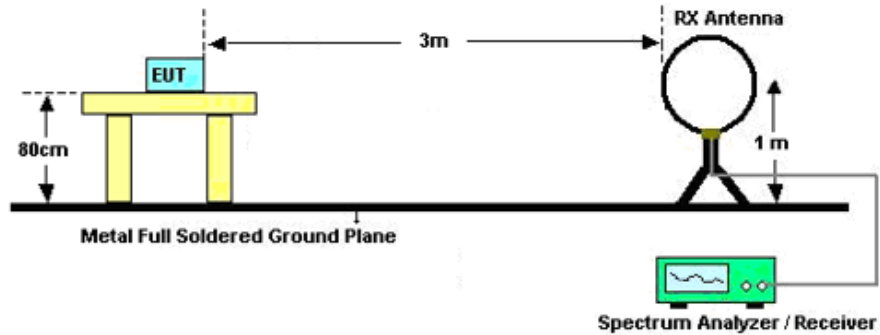
The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.5.3 Test Procedures

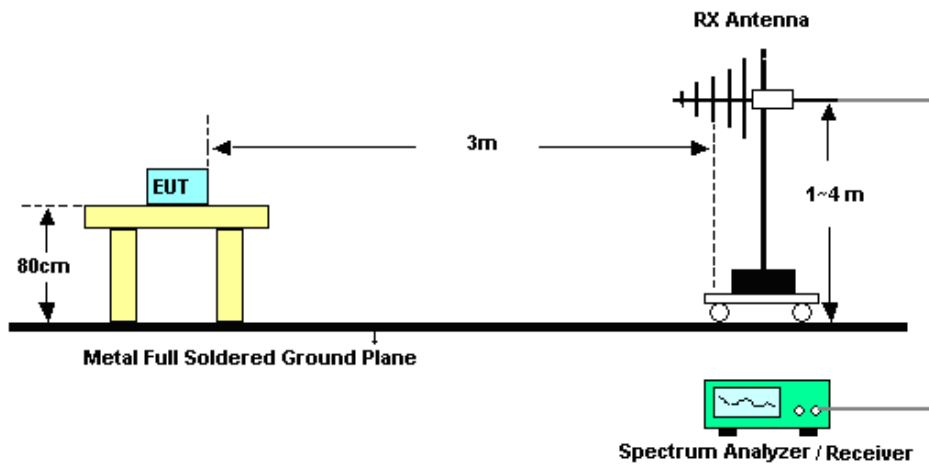
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better 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 conducted spurious emission measurement in the restricted band, the RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
7. For measurement below 1GHz, if the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; $VBW \geq RBW$; 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

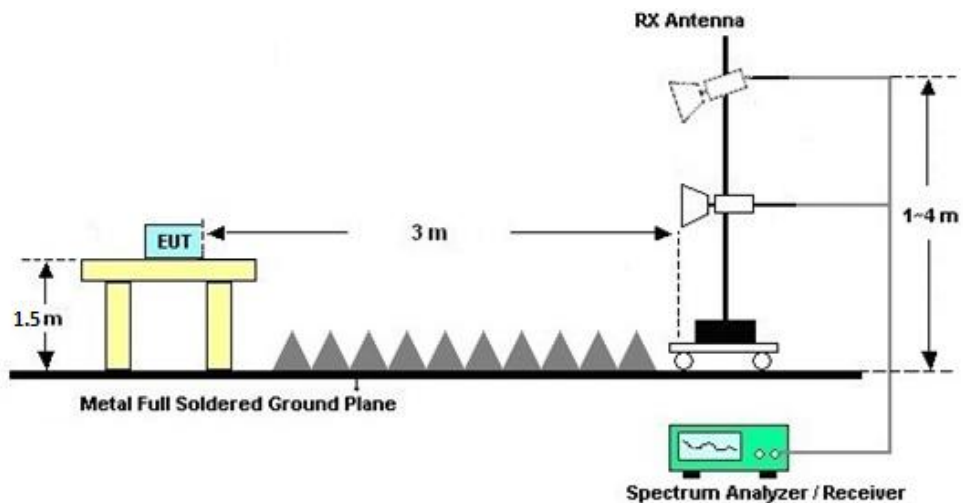
For radiated emissions below 30MHz



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 Results of Radiated Spurious at Band Edges

Please refer to Appendix C.

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

Please refer to Appendix C.

3.5.8 Duty Cycle

Please refer to Appendix D.

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.

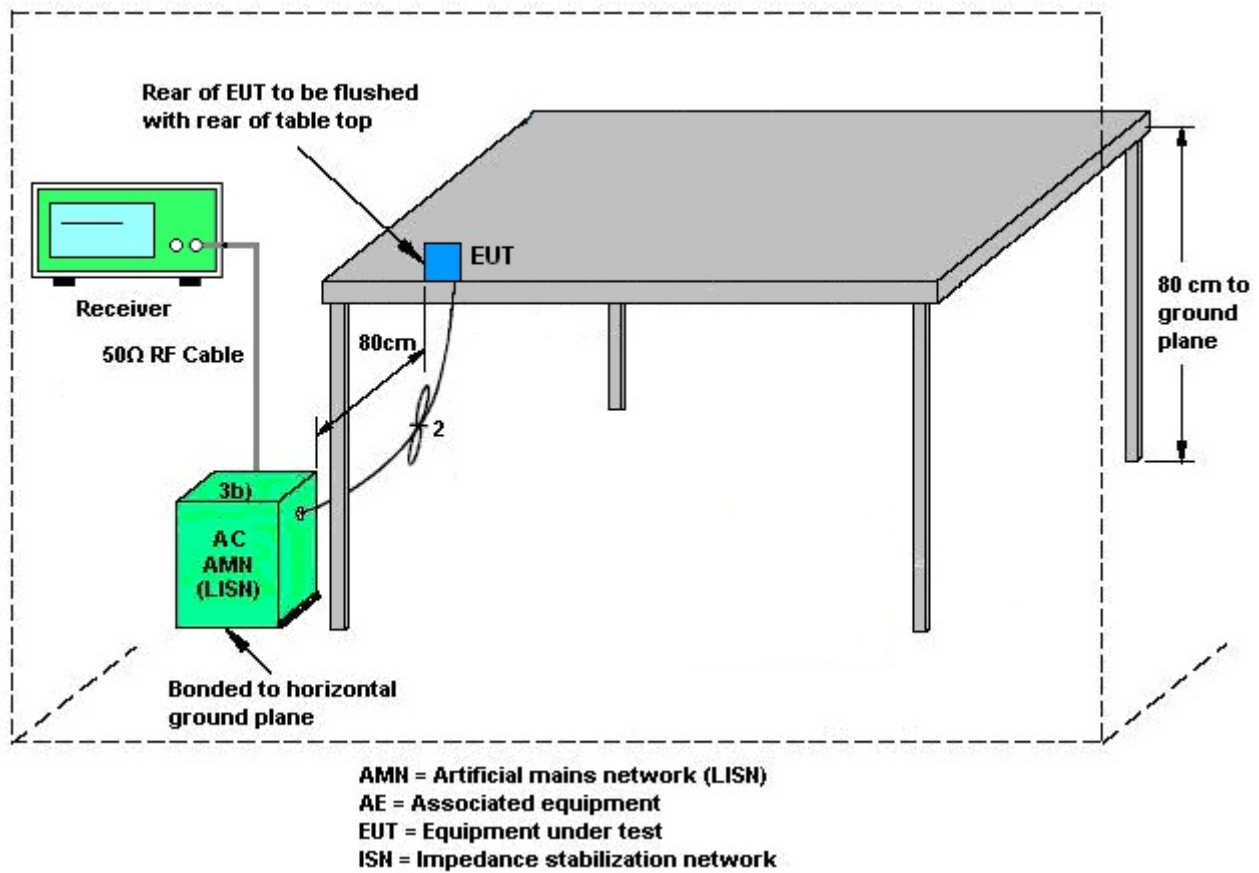
3.6.2 Measuring Instruments

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
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz;Max 30dBm	Jan. 02, 2024	Dec. 12, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471084	10Hz~44GHz	Jul. 04, 2024	Dec. 12, 2024	Jul. 03, 2025	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Dec. 12, 2024	Sep. 07, 2025	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz~1GHz	Sep. 03, 2024	Dec. 12, 2024	Sep. 02, 2025	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 11, 2024	Dec. 12, 2024	Apr. 10, 2025	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Dec. 12, 2024	Oct. 21, 2025	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHZ	Jul. 04, 2024	Dec. 12, 2024	Jul. 03, 2025	Radiation (03CH06-KS)
Amplifier	EM	EM18G40GA	060728	18~40GHz	Jan. 03, 2024	Dec. 12, 2024	Jan. 02, 2025	Radiation (03CH06-KS)
high gain Amplifier	EM	EM01G18GA	060845	1Ghz~18Ghz	Jan. 03, 2024	Dec. 12, 2024	Jan. 02, 2025	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY57280119	500MHz~26.5GHz	Oct. 09, 2024	Dec. 12, 2024	Oct. 08, 2025	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 12, 2024	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 12, 2024	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 12, 2024	NCR	Radiation (03CH06-KS)
6db attenuator	TOJOIN	SMA(JK)	EMC02	2W/DC-18G	Jul. 30, 2024	Dec. 12, 2024	Jul. 29, 2025	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Feb. 14, 2025	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2024	Feb. 14, 2025	Aug. 19, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Feb. 14, 2025	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Feb. 14, 2025	Oct. 08, 2025	Conduction (CO01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Dec. 31, 2024~Mar. 05, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Oct. 10, 2024	Dec. 31, 2024~Mar. 05, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Oct. 10, 2024	Dec. 31, 2024~Mar. 05, 2025	Oct. 09, 2025	Conducted (TH01-KS)
RF Test System	Tonscend	TS1120-3	N/A	N/A	NCR	Dec. 31, 2024~Mar. 05, 2025	NCR	Conducted (TH01-KS)
automation control unit	Tonscend	JS0806-2	21H8060473	N/A	NCR	Dec. 31, 2024~Mar. 05, 2025	NCR	Conducted (TH01-KS)
power control unit	Tonscend	JS0806-4ADC	21J8060495	N/A	NCR	Dec. 31, 2024~Mar. 05, 2025	NCR	Conducted (TH01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Conducted Power Spectral Denstiy	±0.90 dB
Frequency	±0.04 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 dB
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Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.30 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.06 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.18 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.38 dB
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----- THE END -----



Appendix A. Conducted Test Results



Ambient Condition: 25 °C, 45 %RH

Test Date: 2024.12.31~2025.3.5

Test Engineer: Jiang Jun

DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Zigbee	Ant1	2405	1.34	2404.34	2405.68	0.5	PASS
		2445	1.34	2444.34	2445.68	0.5	PASS
		2475	1.31	2474.36	2475.66	0.5	PASS
		2480	1.32	2479.35	2480.68	0.5	PASS

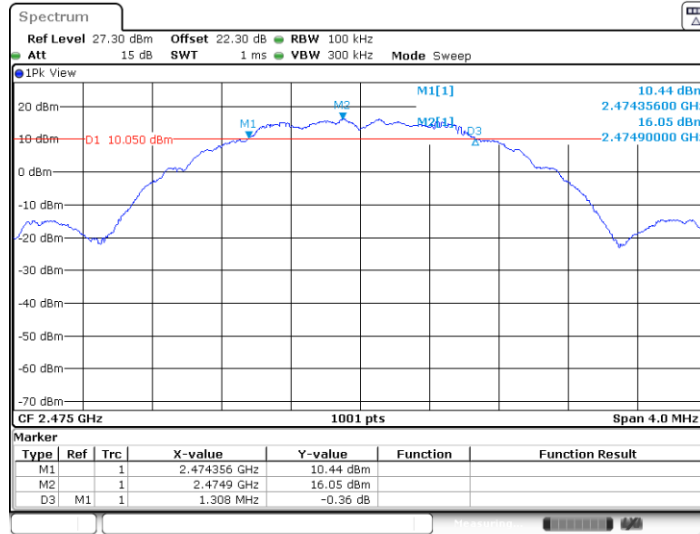


Test Graphs



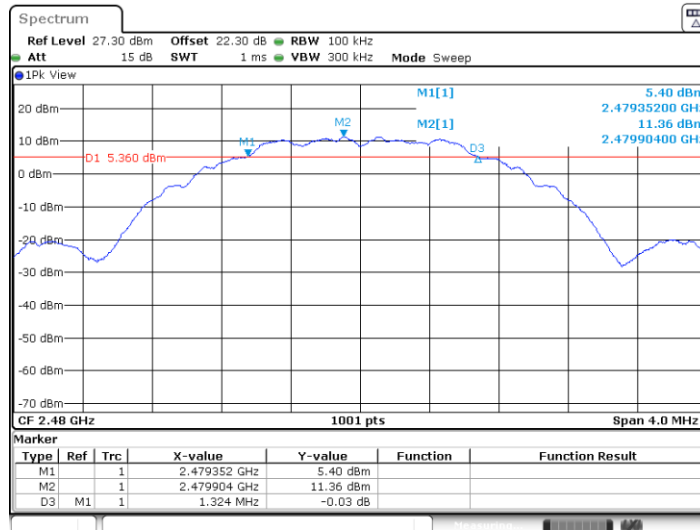


Zigbee_Ant1_2475



Date: 31.DEC.2024 20:54:22

Zigbee_Ant1_2480



Date: 31.DEC.2024 20:56:17



Occupied Channel Bandwidth

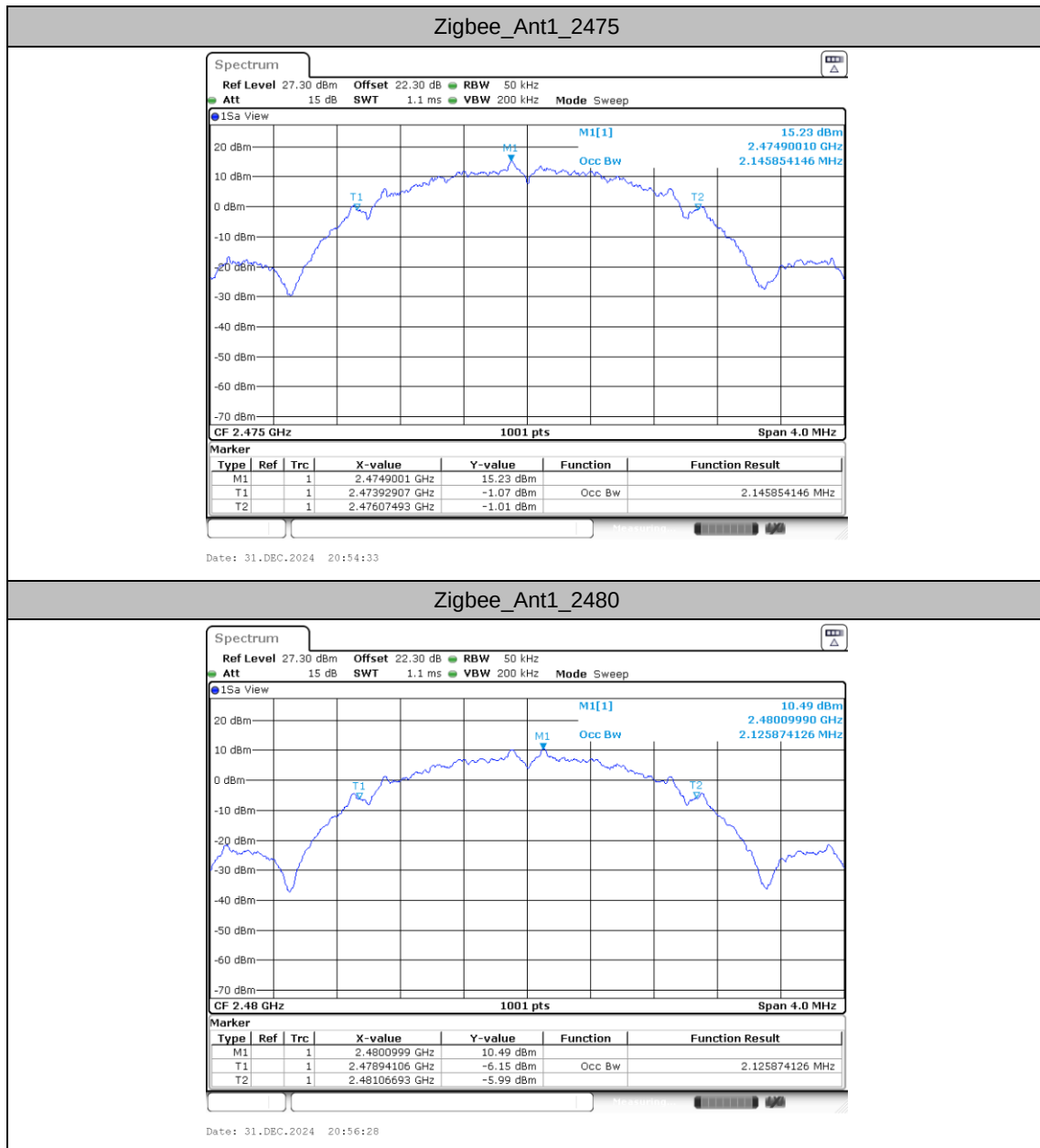
Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Zigbee	Ant1	2405	2.13	2403.9411	2406.0709	---	---
		2445	2.134	2443.9331	2446.0669	---	---
		2475	2.146	2473.9291	2476.0749	---	---
		2480	2.126	2478.9411	2481.0669	---	---



Test Graphs







Maximum conducted output power

Test Result Average

TestMode	Antenna	Setting	CH.	Duty Factor (dB)	Average Conducted Power (dBm)	Power Limit (dBm)	Pass/Fail
Zigbee	Ant1	14	11	2.39	14.09	20.97	Pass
		14	19	2.39	14.20	20.97	Pass
		14	25	2.39	14.44	20.97	Pass
		14	26	2.39	14.20	20.97	Pass



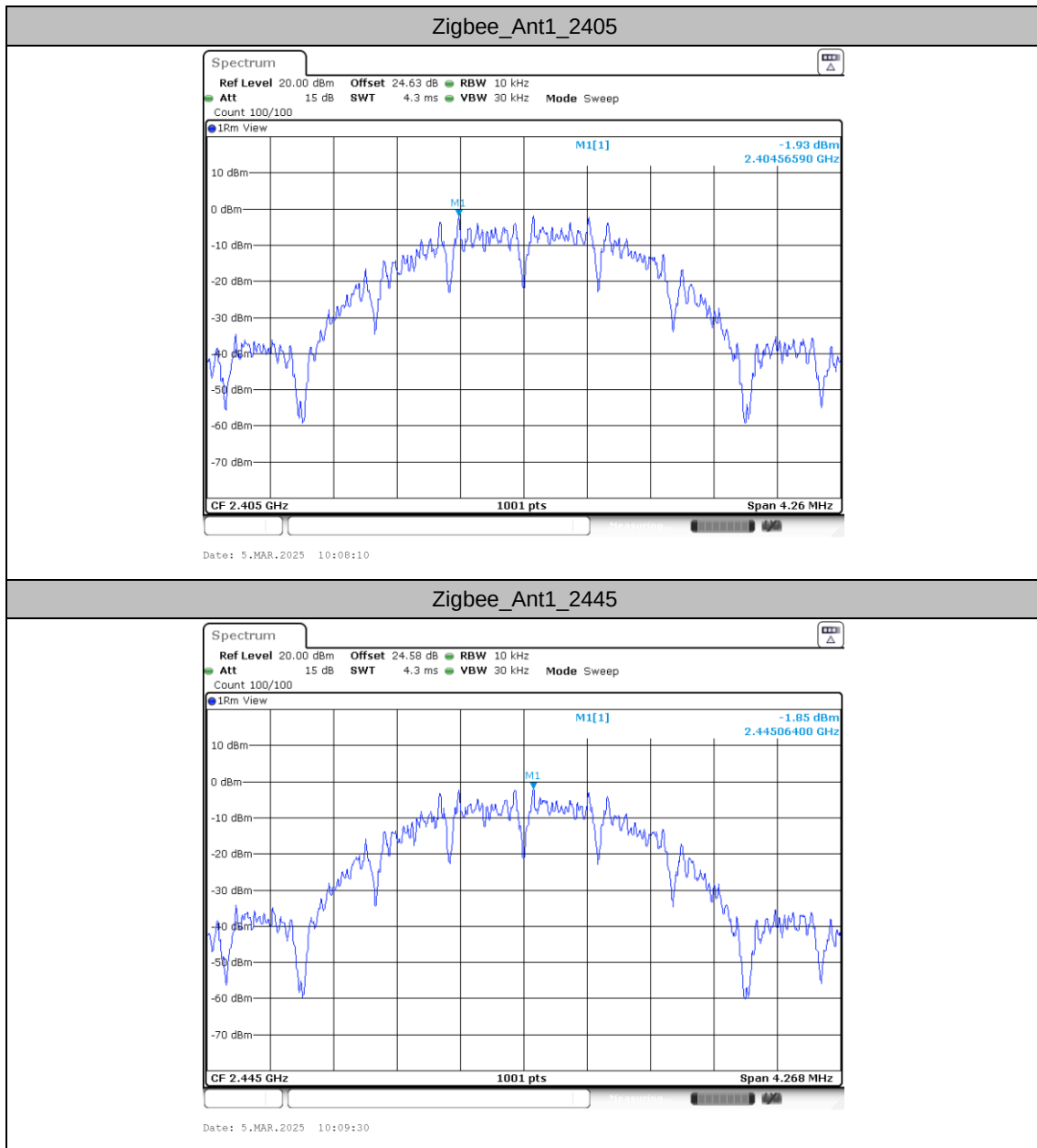
Maximum power spectral density

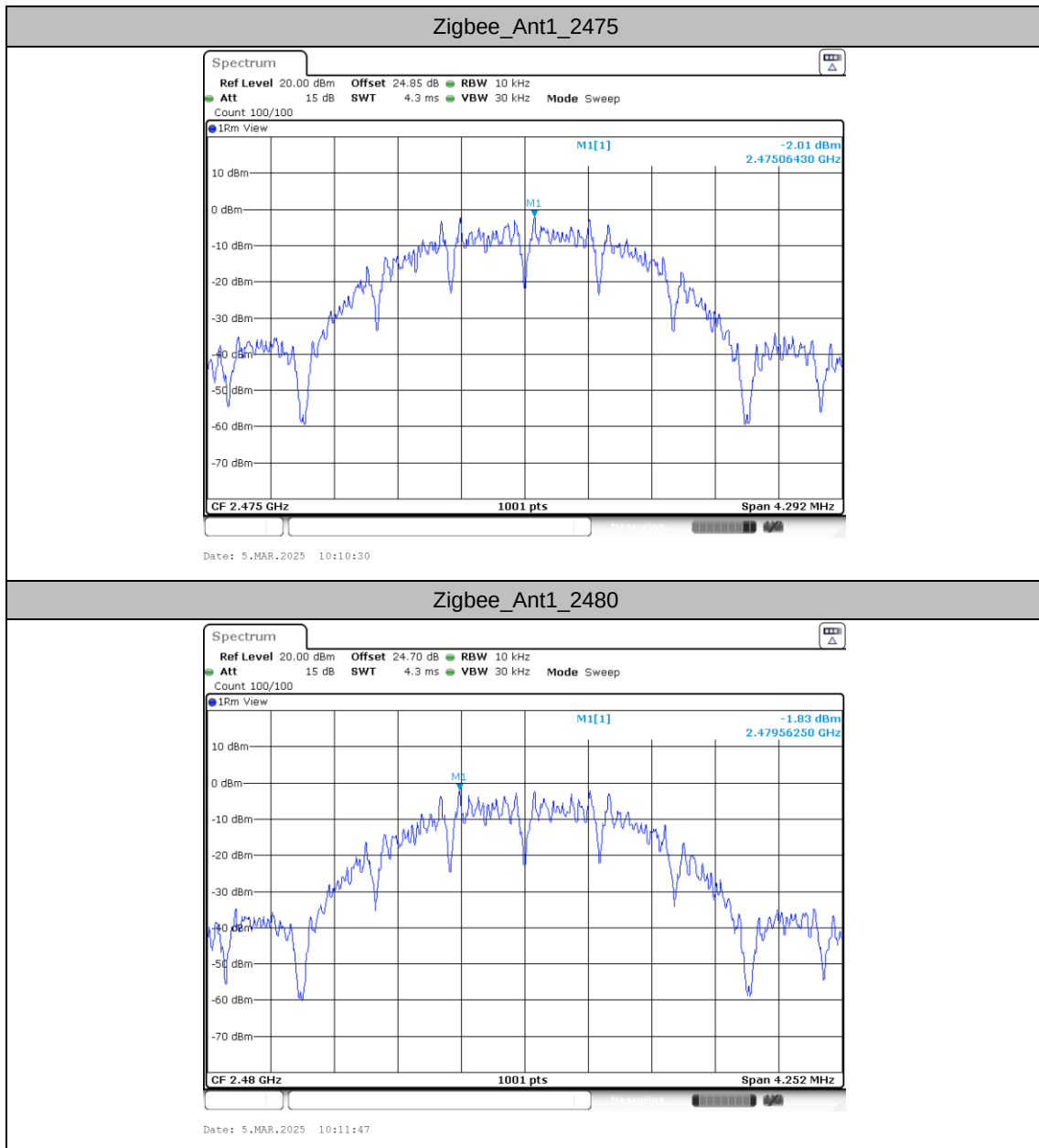
Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
Zigbee	Ant1	2405	-1.93	≤8.00	PASS
		2445	-1.85	≤8.00	PASS
		2475	-2.01	≤8.00	PASS
		2480	-1.83	≤8.00	PASS



Test Graphs







Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm/100KHz]
Zigbee	Ant1	2405	2405.11	15.77
		2445	2444.90	15.99
		2475	2474.90	16.03
		2480	2480.10	11.35



Test Graphs







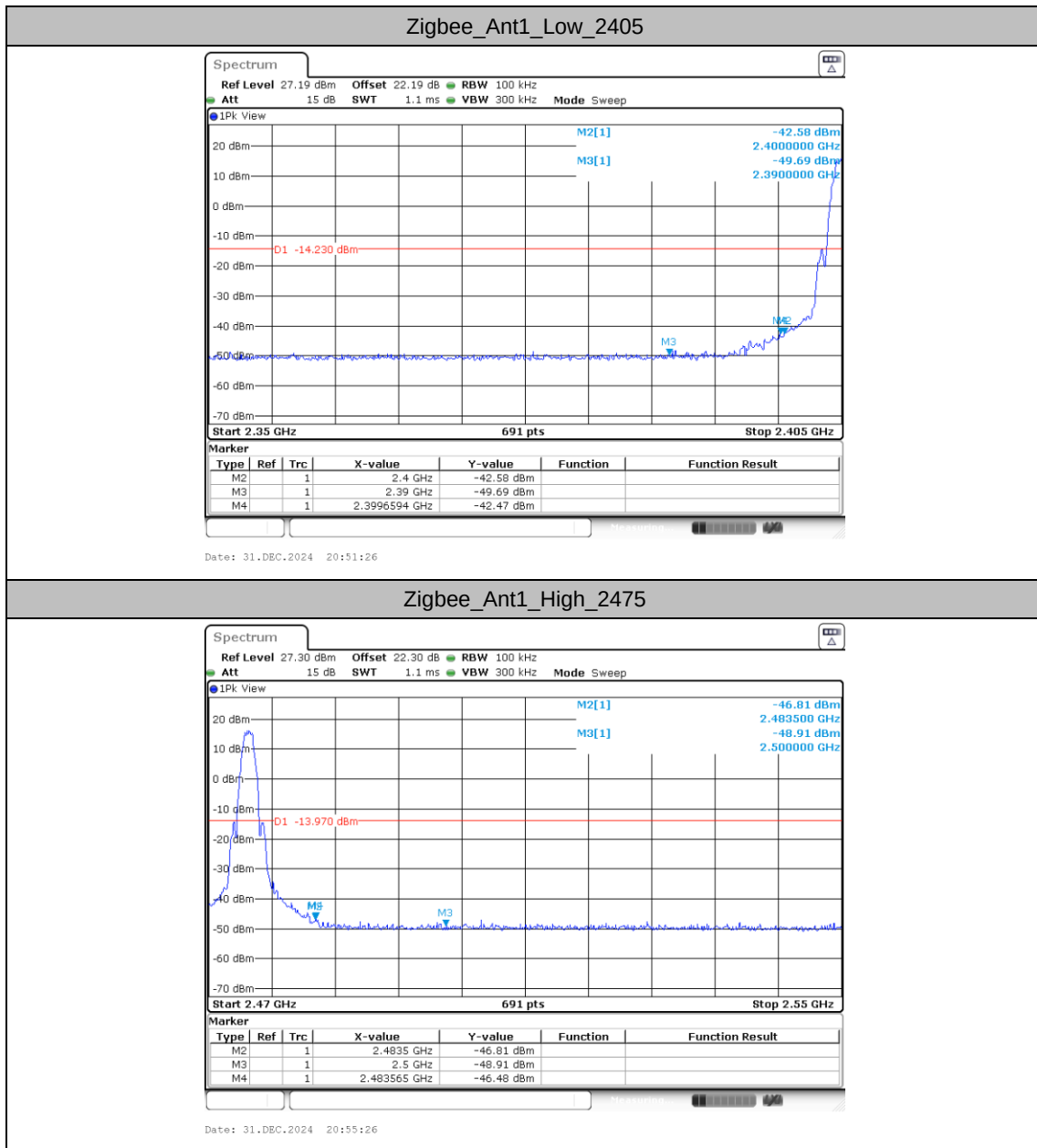
Band edge measurements

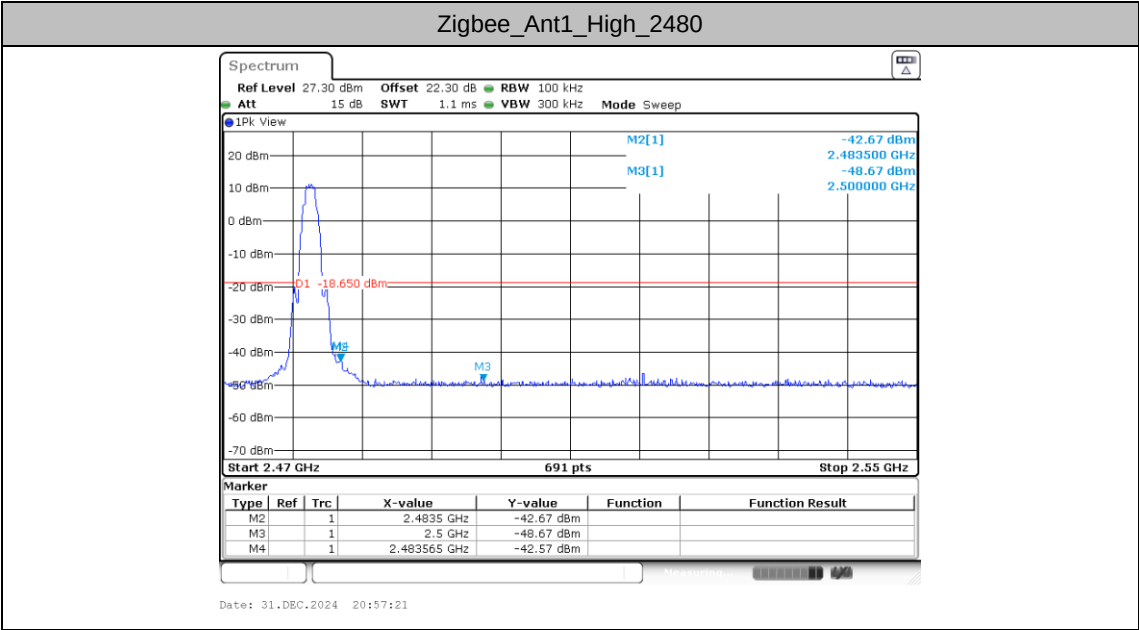
Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm /100KHz]	Result[dBm /100KHz]	Limit[dBm /100KHz]	Verdict
Zigbee	Ant1	Low	2405	15.77	-42.47	≤-14.23	PASS
		High	2475	16.03	-46.48	≤-13.97	PASS
			2480	11.35	-42.57	≤-18.65	PASS



Test Graphs







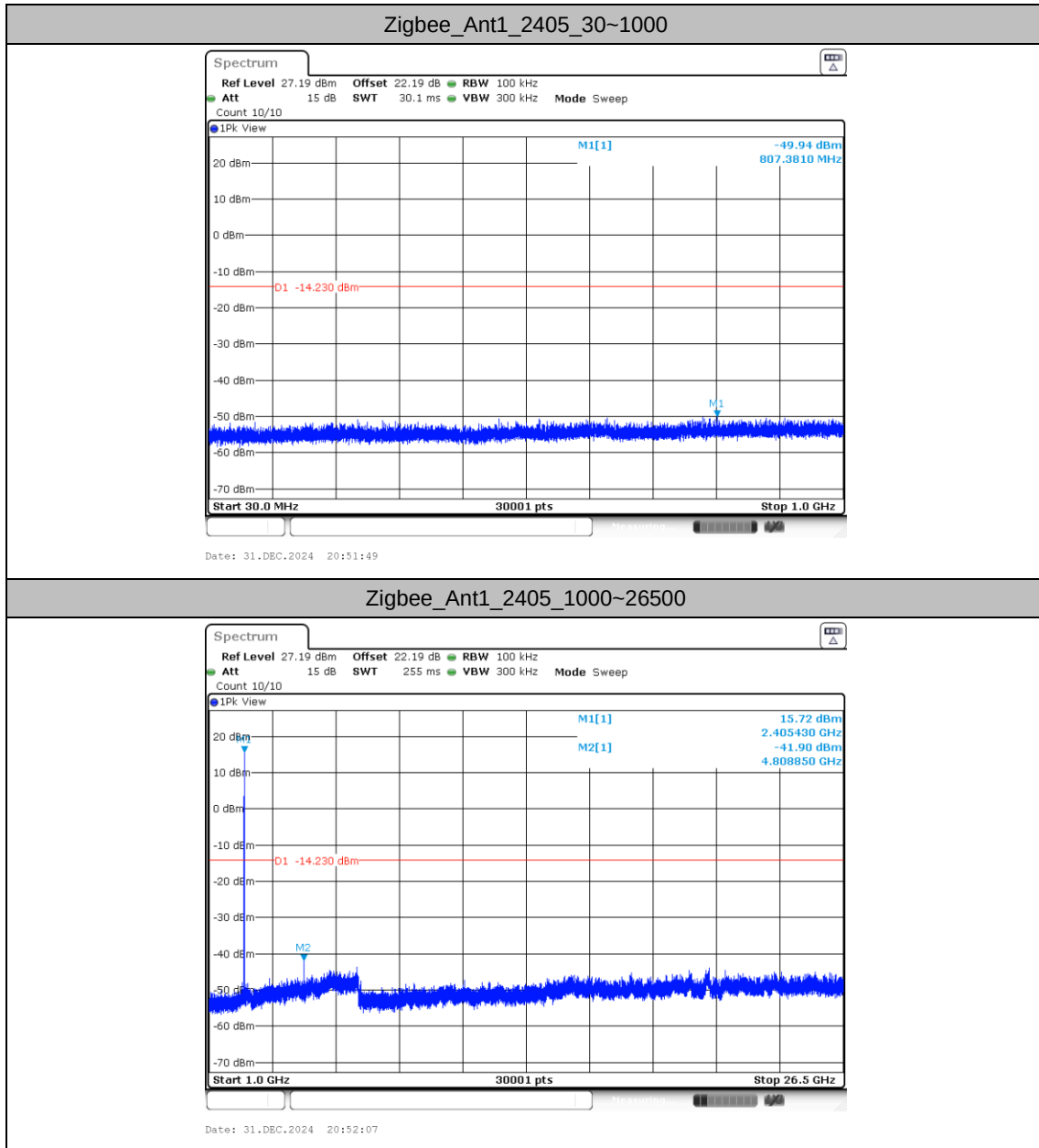
Conducted Spurious Emission

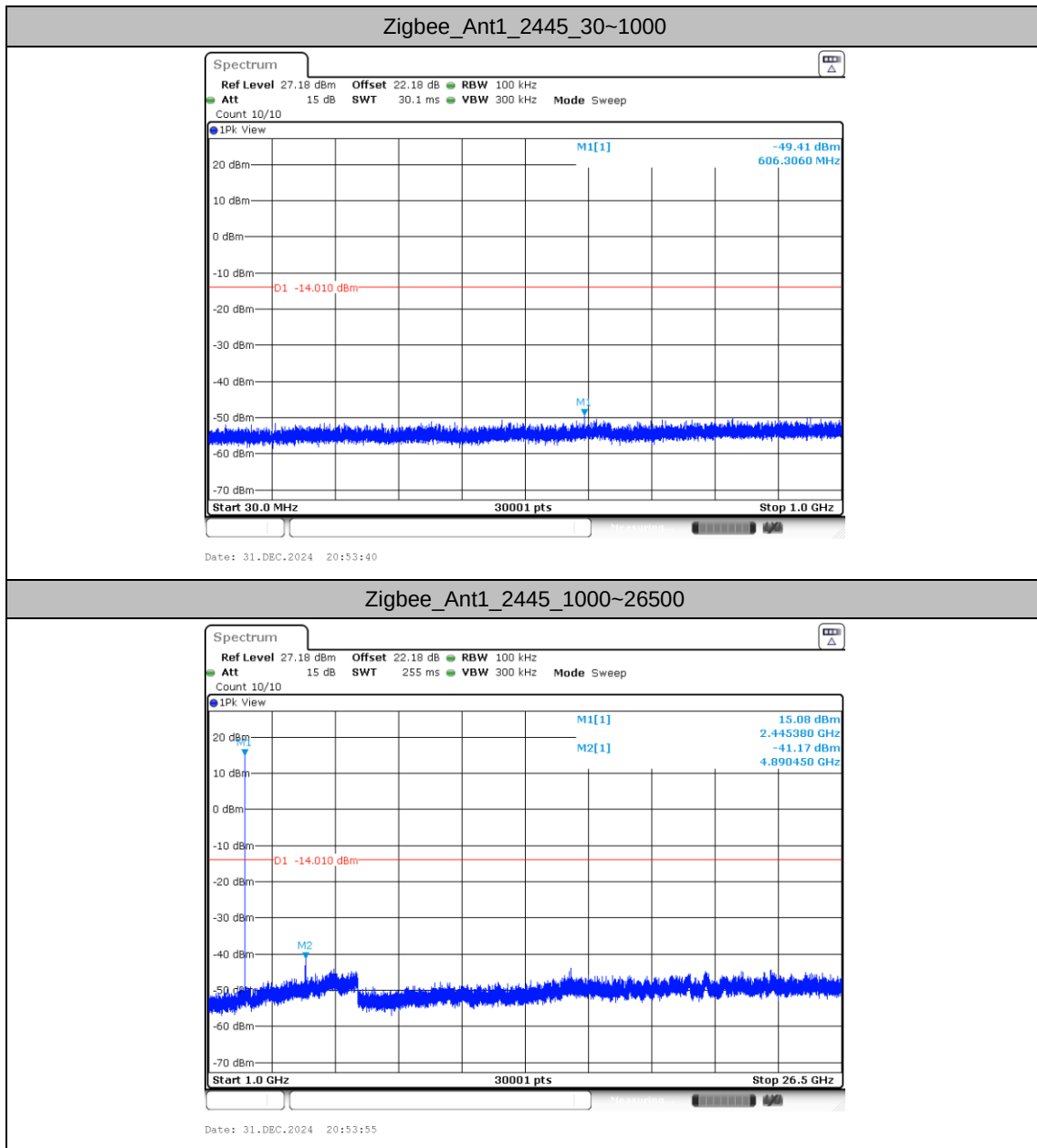
Test Result

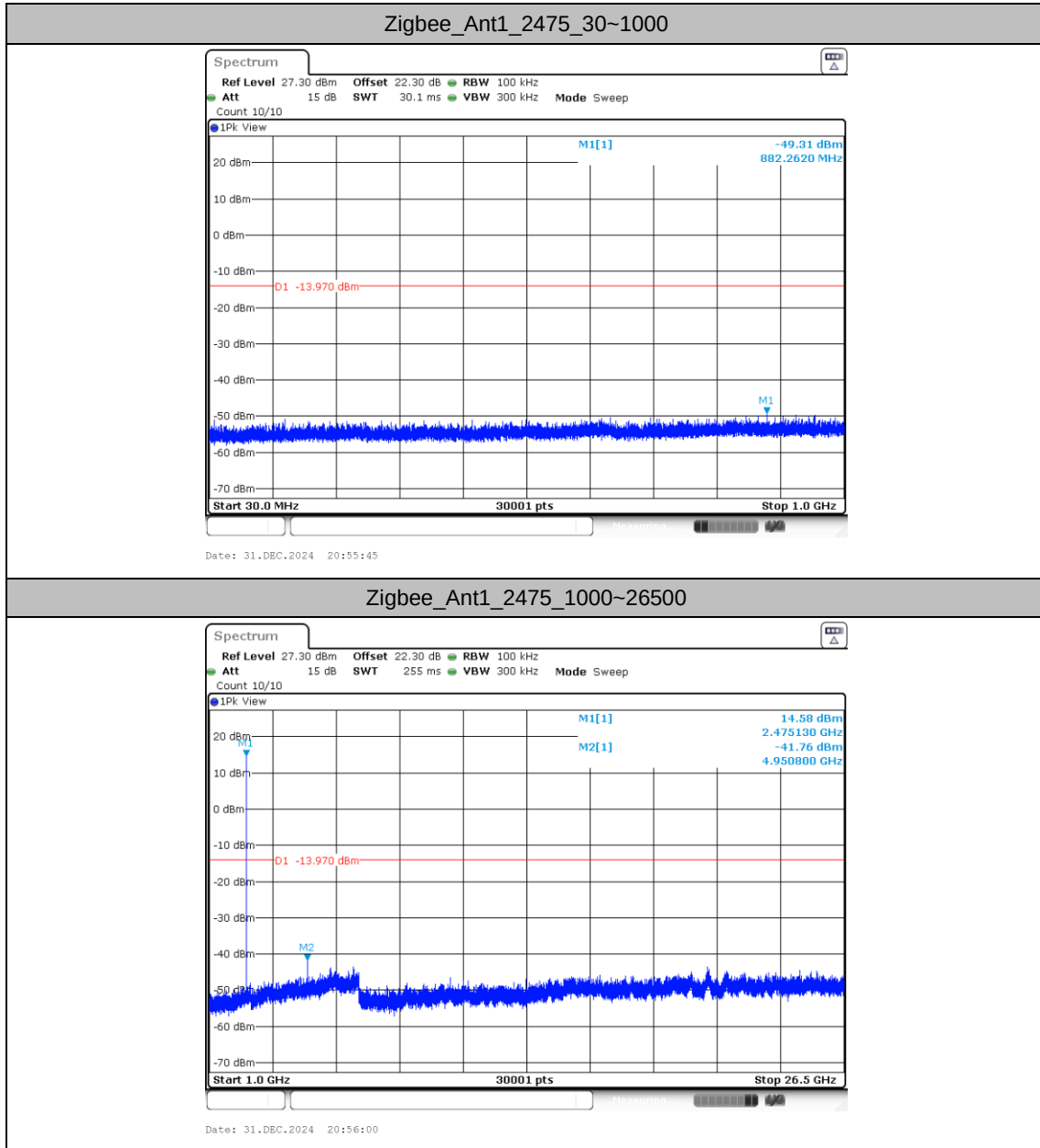
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm/100KHz]	Result [dBm/100KHz]	Limit [dBm/100KHz]	Verdict
Zigbee	Ant1	2405	30~1000	15.77	-49.94	≤ -14.23	PASS
			1000~26500	15.77	-41.9	≤ -14.23	PASS
		2445	30~1000	15.99	-49.41	≤ -14.01	PASS
			1000~26500	15.99	-41.17	≤ -14.01	PASS
		2475	30~1000	16.03	-49.31	≤ -13.97	PASS
			1000~26500	16.03	-41.76	≤ -13.97	PASS
		2480	30~1000	11.35	-49.35	≤ -18.65	PASS
			1000~26500	11.35	-43.35	≤ -18.65	PASS

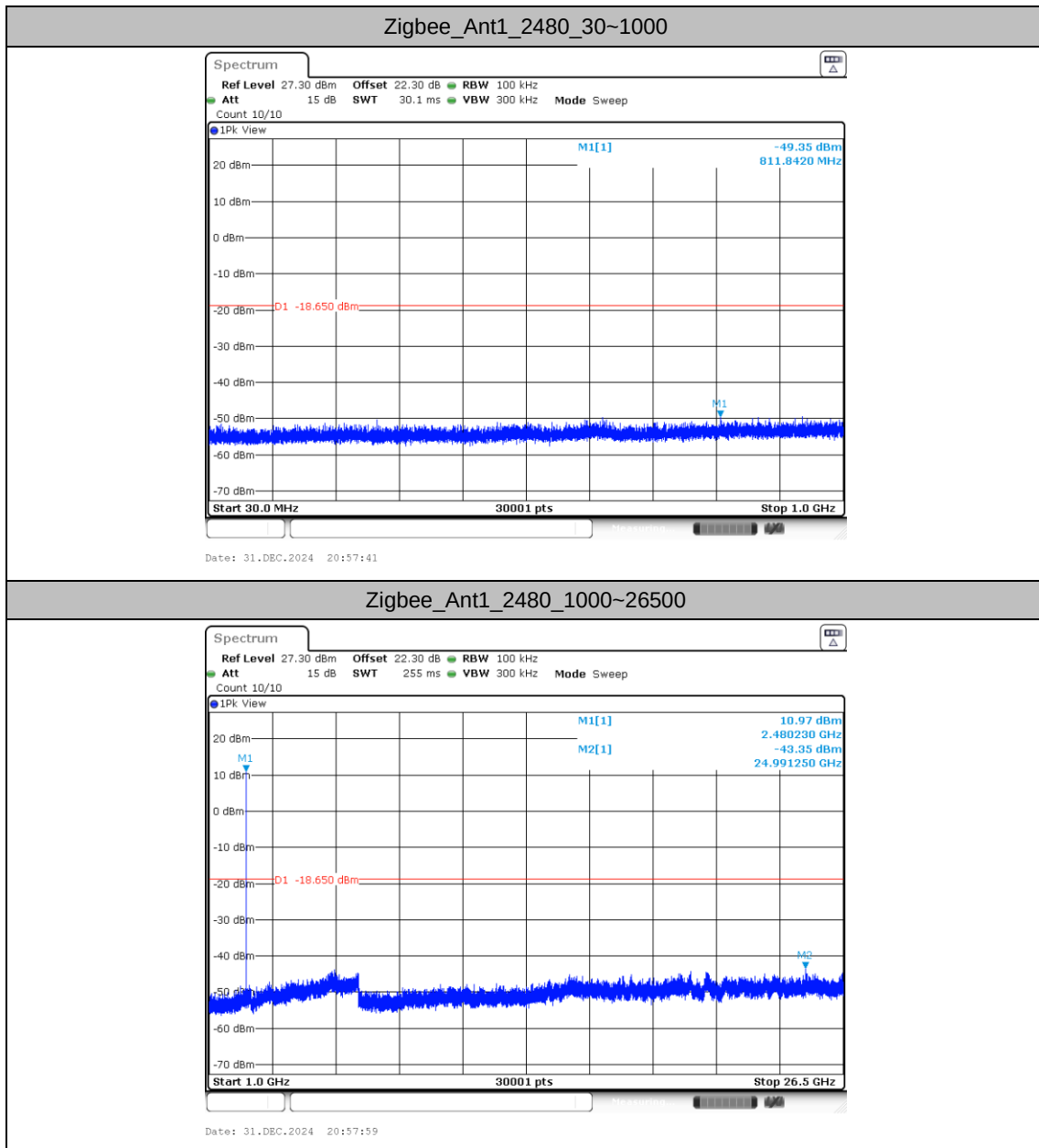


Test Graphs



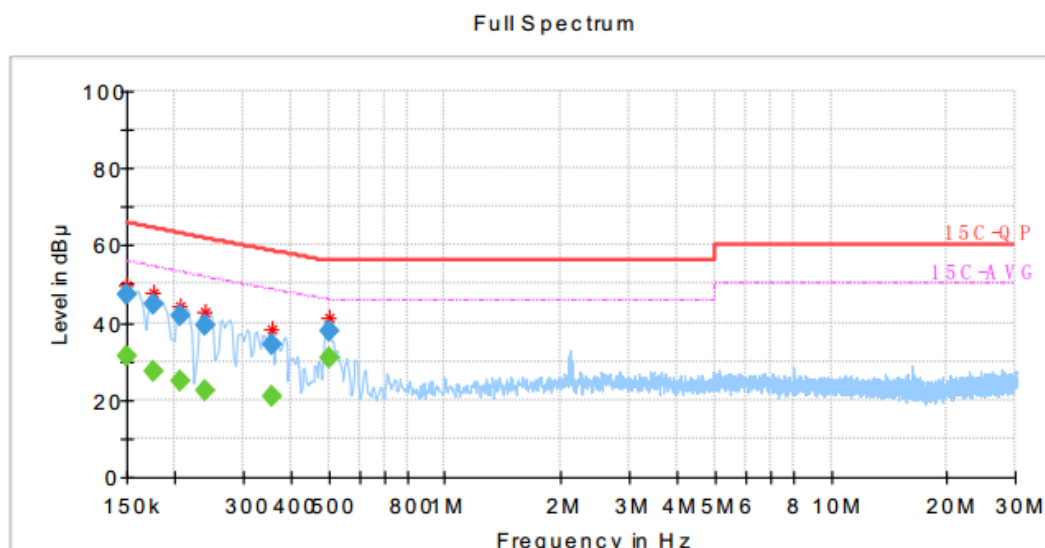






Appendix B. AC Conducted Emission Test Results

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



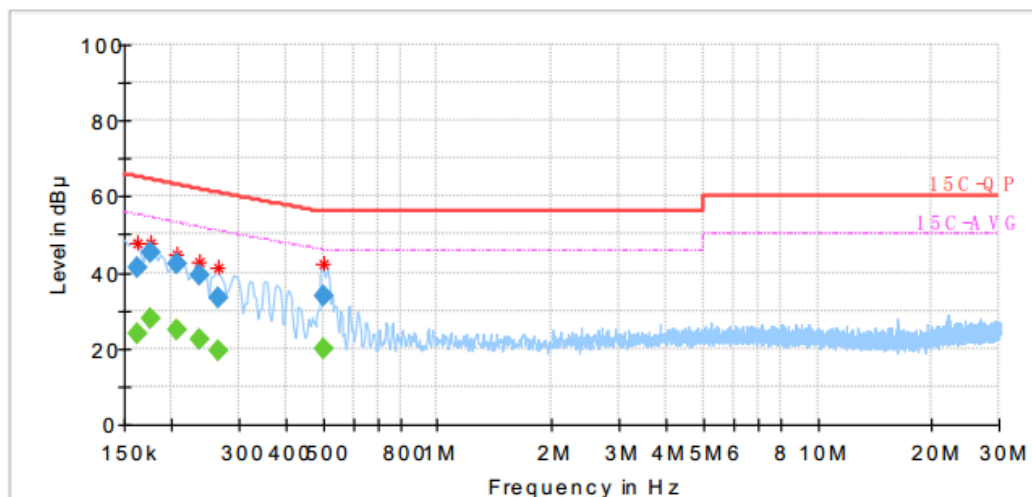
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	31.12	56.00	24.88	L1	OFF	20.1
0.150000	47.29	---	66.00	18.71	L1	OFF	20.1
0.176119	---	27.43	54.55	27.12	L1	OFF	20.0
0.176119	44.94	---	64.57	19.63	L1	OFF	20.0
0.205969	---	24.85	53.17	28.32	L1	OFF	20.0
0.205969	42.02	---	63.21	21.19	L1	OFF	20.0
0.238012	---	22.49	51.93	29.44	L1	OFF	19.9
0.238012	39.23	---	61.97	22.74	L1	OFF	19.9
0.355219	---	20.80	48.64	27.85	L1	OFF	19.9
0.355219	34.37	---	58.68	24.31	L1	OFF	19.9
0.502988	---	30.86	46.00	15.14	L1	OFF	19.8
0.502988	38.06	---	56.00	17.94	L1	OFF	19.8



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

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161962	---	24.11	55.30	31.19	N	OFF	20.2
0.161962	41.32	---	65.31	23.99	N	OFF	20.2
0.176119	---	27.73	54.55	26.82	N	OFF	20.2
0.176119	45.22	---	64.57	19.35	N	OFF	20.2
0.206738	---	24.66	53.14	28.48	N	OFF	20.2
0.206738	42.17	---	63.17	21.00	N	OFF	20.2
0.235819	---	22.15	52.01	29.86	N	OFF	20.1
0.235819	39.14	---	62.05	22.90	N	OFF	20.1
0.264188	---	19.29	51.05	31.77	N	OFF	20.1
0.264188	33.27	---	61.09	27.82	N	OFF	20.1
0.502988	---	19.97	46.00	26.03	N	OFF	19.9
0.502988	33.88	---	56.00	22.12	N	OFF	19.9



Appendix C Radiated Spurious Emission Test Data

Test Engineer :	levi zhao	Relative Humidity :	41~42%
		Temperature :	22~23°C

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	Zigbee	11	2405	250k	-	Sample 1
Mode 2	2400-2483.5	1	Zigbee	19	2445	250k	-	Sample 1
Mode 3	2400-2483.5	1	Zigbee	26	2480	250k	-	Sample 1
Mode 4	2400-2483.5	1	Zigbee	25	2475	250k	-	Sample 1
Mode 5	2400-2483.5	1	Zigbee	26	2480	250k	-	Sample 2

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Zigbee	11	2389.04	44.35	54.00	-9.65	V	AVERAGE	Pass	Band Edge
1	Zigbee	11	12022.50	47.50	74.00	-26.50	H	Peak	Pass	Harmonic
2	Zigbee	19	-	-	-	-	-	-	-	Band Edge
2	Zigbee	19	12222.00	45.61	54.00	-8.39	H	Average	Pass	Harmonic
3	Zigbee	26	2483.50	49.27	54.00	-4.73	V	AVERAGE	Pass	Band Edge
3	Zigbee	26	7440.00	43.00	74.00	-31.00	H	PEAK	Pass	Harmonic
4	Zigbee	25	2483.50	46.15	54.00	-7.85	V	AVERAGE	Pass	Band Edge
4	Zigbee	25	12375.00	48.29	54.00	-5.71	H	AVERAGE	Pass	Harmonic
5	Zigbee_	26	2483.62	70.23	74.00	-3.77	V	PEAK	Pass	Band Edge
5	Zigbee_	26	12400.00	46.39	74.00	-27.61	H	PEAK	Pass	Harmonic

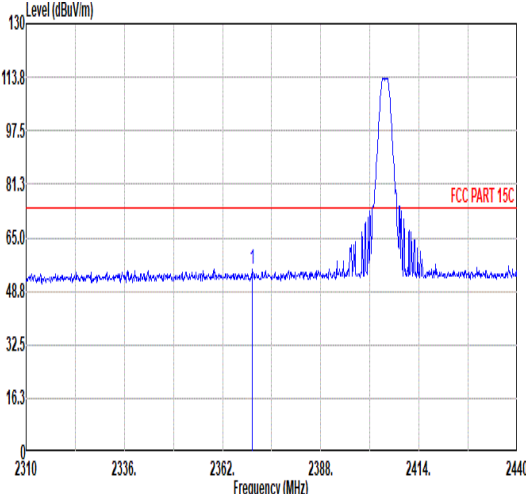
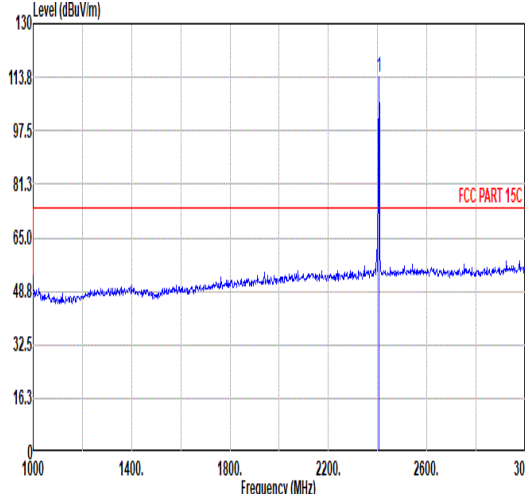
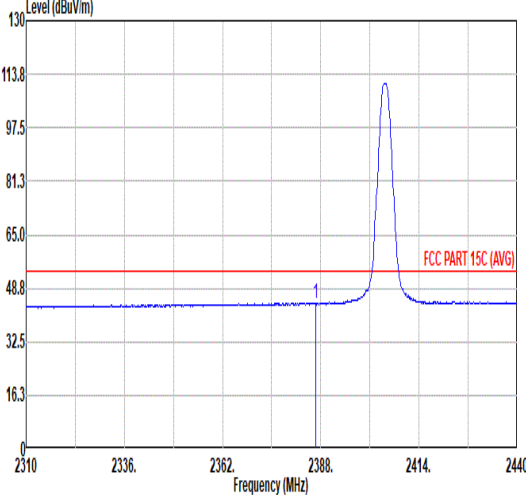
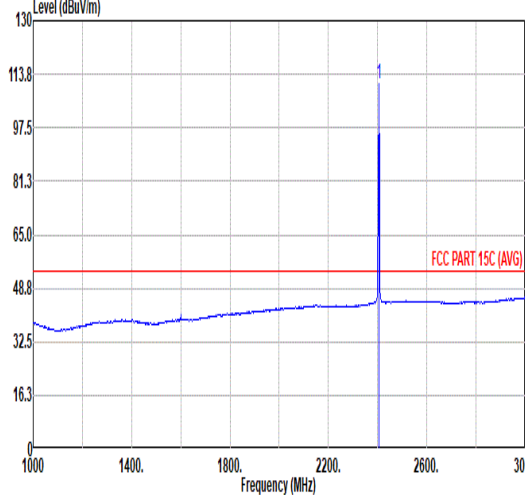
**Co-location****Radiated Spurious Emission Test Modes**

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 6	2400-2483.5	1	Zigbee	26	2480	250K	-	-
	Low Power Wideband Radio in Wi-Fi 5GHz	2	FMCW	5800 MHz	5800	BW140M	-	-

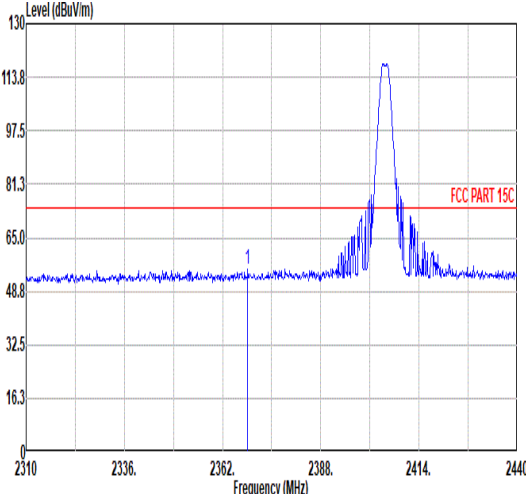
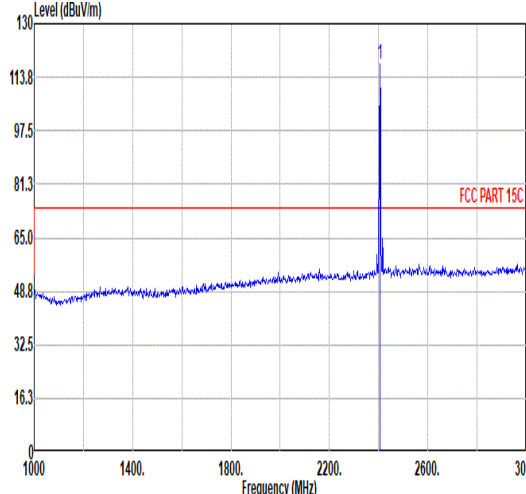
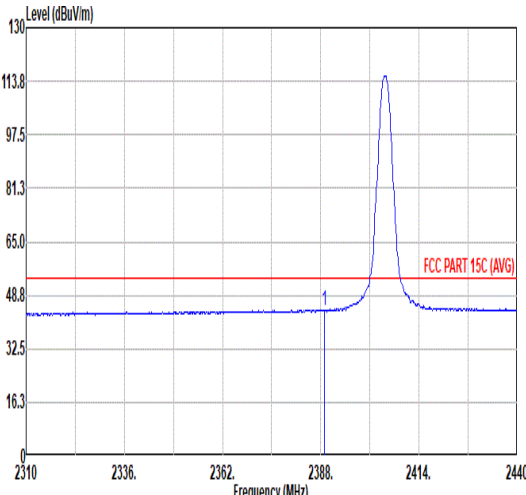
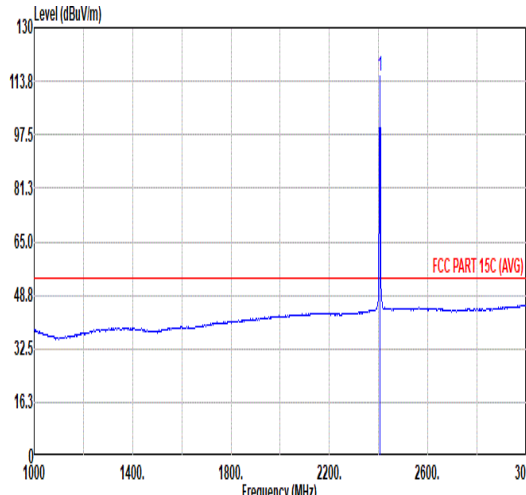
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
6	Zigbee	26	2483.68	70.53	74.00	-3.47	V	Peak	Pass	Band Edge
	Zigbee	26	4960.00	38.61	74.00	-35.39	V	PEAK	Pass	Harmonic
	Low Power Wideband Radio in Wi-Fi 5GHz	140M	5724.80	46.74	54.00	-7.26	H	AVERAGE	Pass	Band Edge
	Low Power Wideband Radio in Wi-Fi 5GHz	140M	11600.00	47.06	74.00	-26.94	V	PEAK	Pass	Harmonic

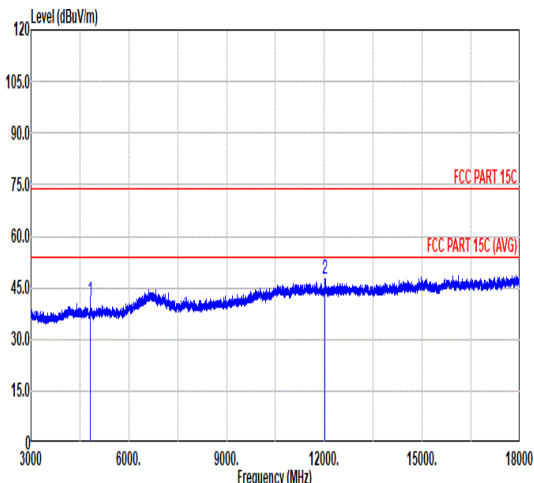


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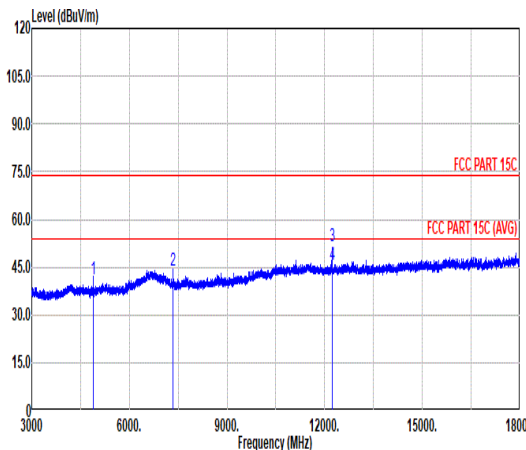
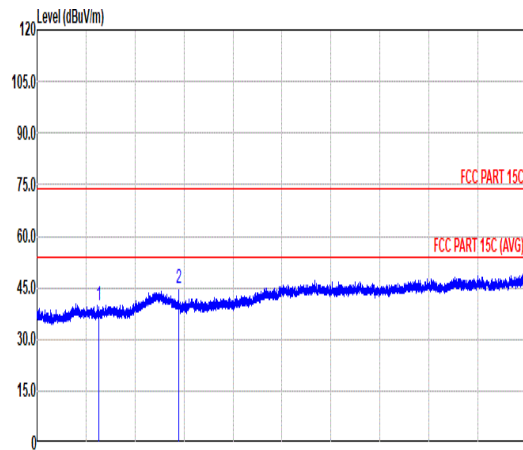


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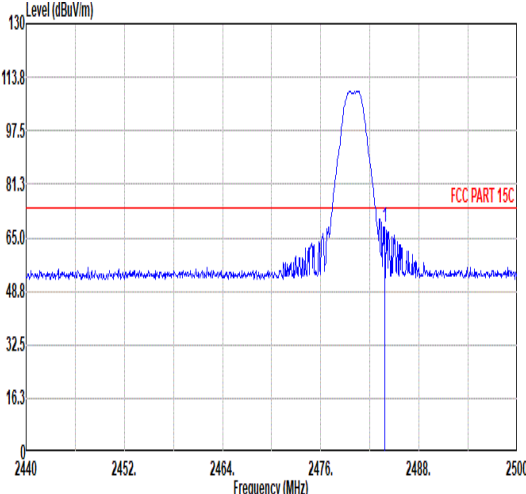
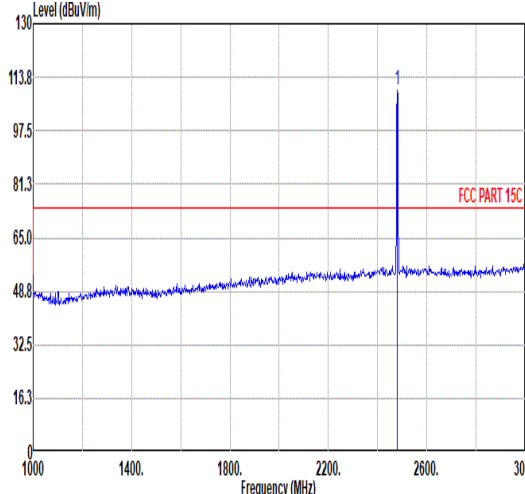
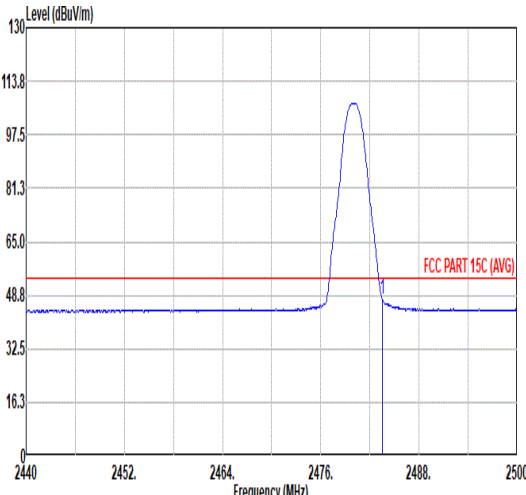
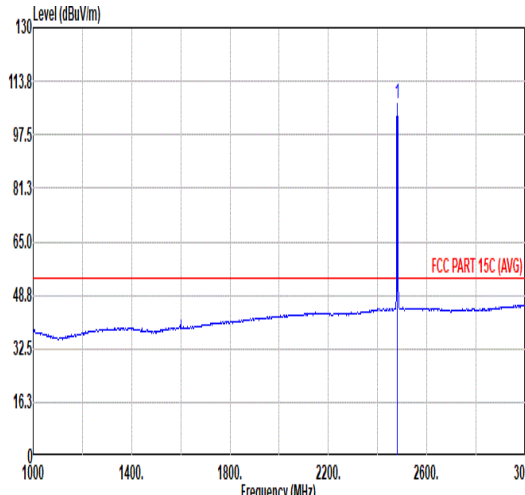


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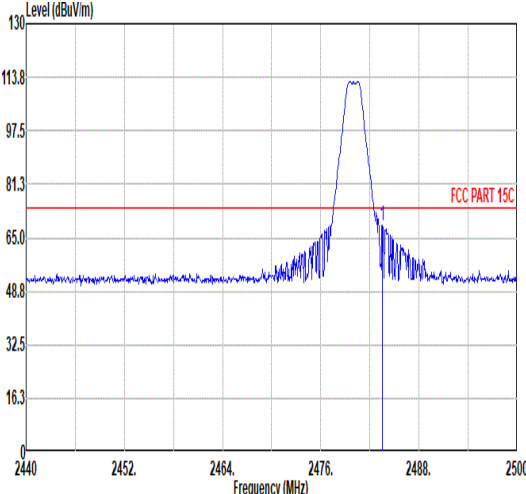
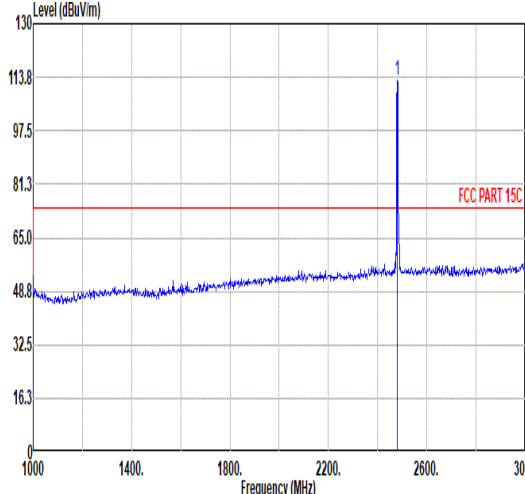
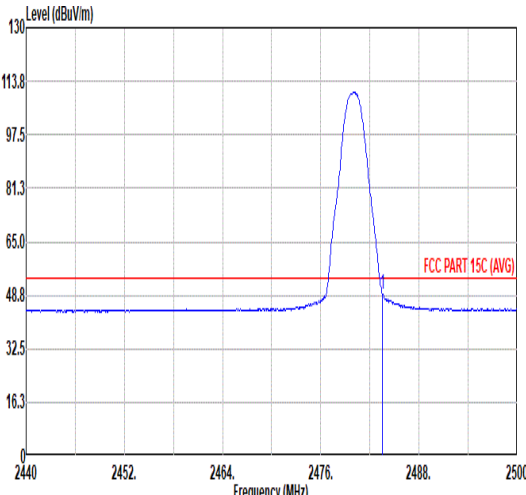
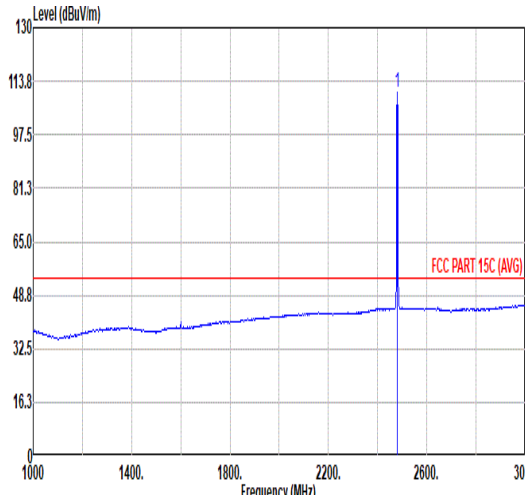


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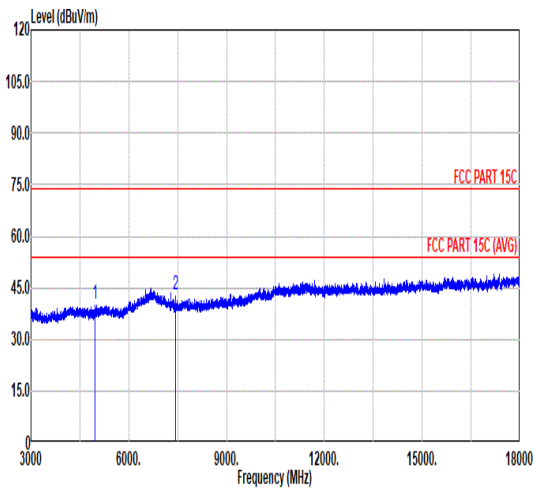
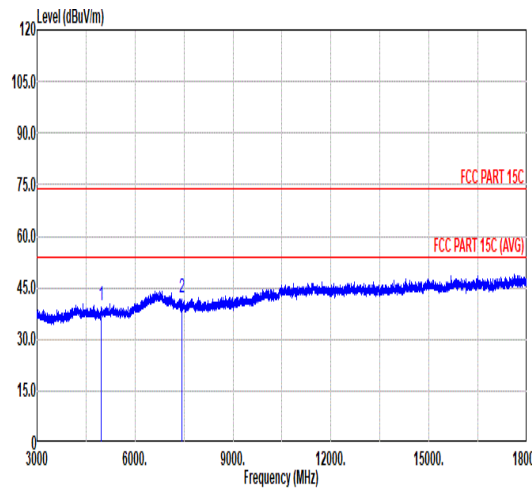


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1	2480.00	109.71	-----	-----	96.63	32.58	6.73	32.23	6.00	340 PEAK																																																																																								
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	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</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>2483.50</td><td>47.40</td><td>54.00</td><td>-6.60</td><td>34.30</td><td>32.60</td><td>6.73</td><td>32.23</td><td>6.00</td><td>340 AVERAGE</td></tr></table>											Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2483.50	47.40	54.00	-6.60	34.30	32.60	6.73	32.23	6.00	340 AVERAGE	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</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>2480.00</td><td>106.89</td><td>-----</td><td>-----</td><td>93.81</td><td>32.58</td><td>6.73</td><td>32.23</td><td>6.00</td><td>340 AVERAGE</td></tr></table>		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2480.00	106.89	-----	-----	93.81	32.58	6.73	32.23	6.00
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1	2480.00	110.14	-----	-----	97.06	32.58	6.73	32.23	6.00	300	288	AVERAGE																																																																																									

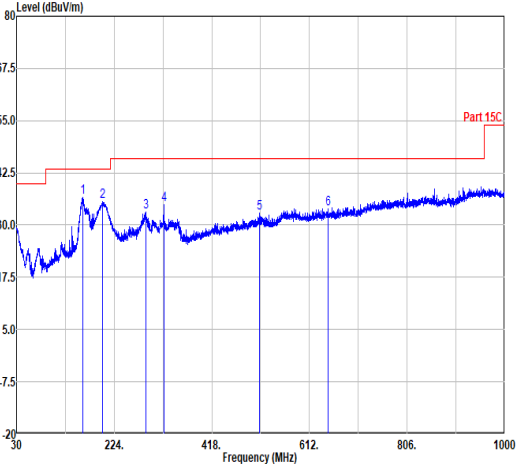
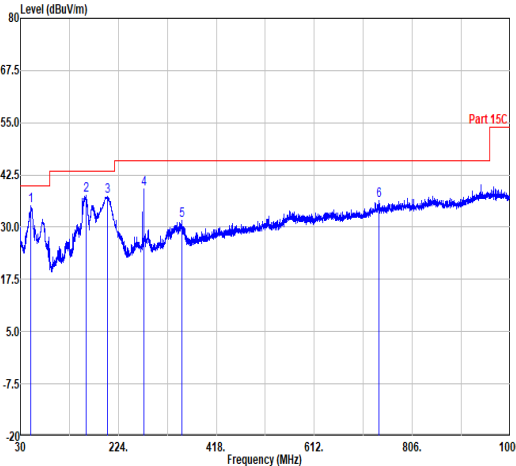


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1	4960.00	39.79	74.00	-34.21	61.93	34.00	9.61	65.75	0.00	---	PEAK																																																																																																																			
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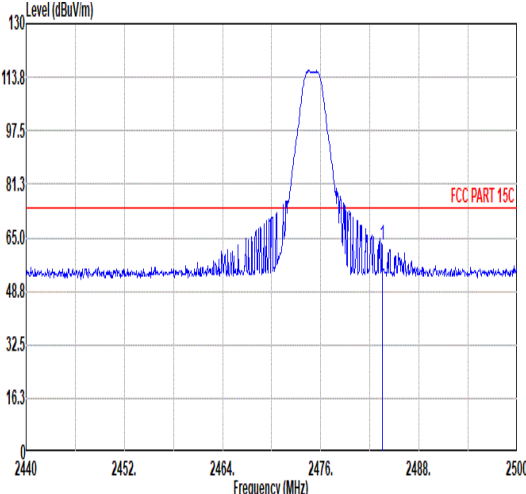
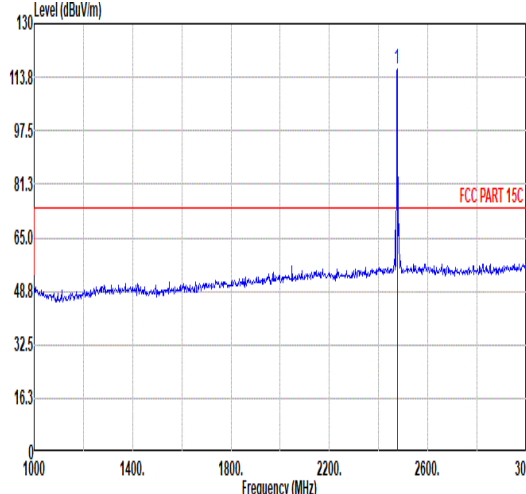
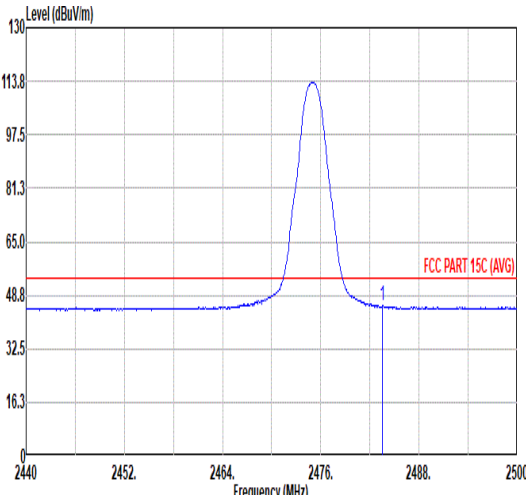
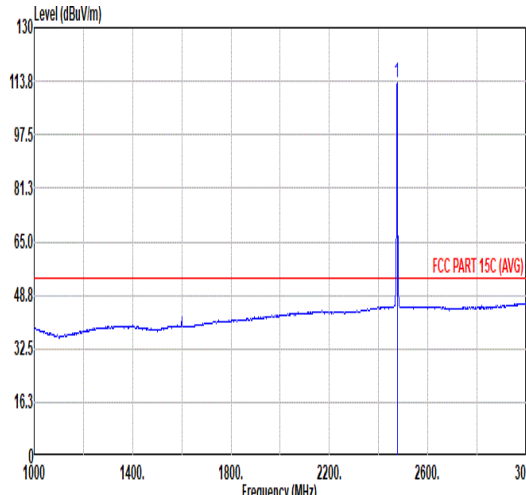


Mode	3	
	18G-25G	
	2400-2483.5_Zigbee_CH26_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	The plot shows the horizontal peak average spectrum. The y-axis is Level (dBuV/m) from 0 to 130 in increments of 16.3. The x-axis is Frequency (MHz) from 18000 to 25000 in increments of 400. A blue noisy line represents the signal, fluctuating between approximately 35 and 50 dBuV/m. Two horizontal red lines indicate FCC limits: FCC PART 15C at 81.3 dBuV/m and FCC PART 15C (AVG) at 65.0 dBuV/m.	The plot shows the vertical peak average spectrum. The y-axis is Level (dBuV/m) from 0 to 130 in increments of 16.3. The x-axis is Frequency (MHz) from 18000 to 25000 in increments of 400. A blue noisy line represents the signal, fluctuating between approximately 35 and 50 dBuV/m. Two horizontal red lines indicate FCC limits: FCC PART 15C at 81.3 dBuV/m and FCC PART 15C (AVG) at 65.0 dBuV/m.

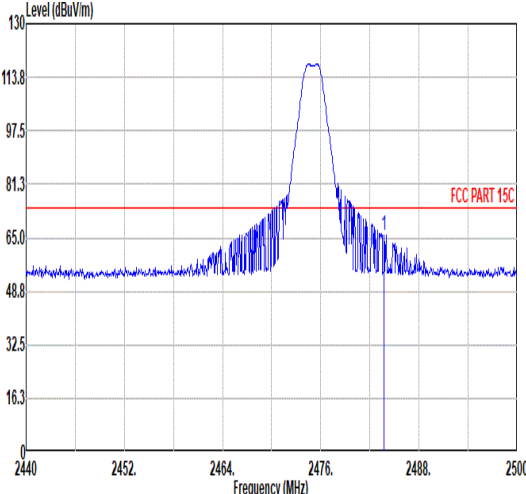
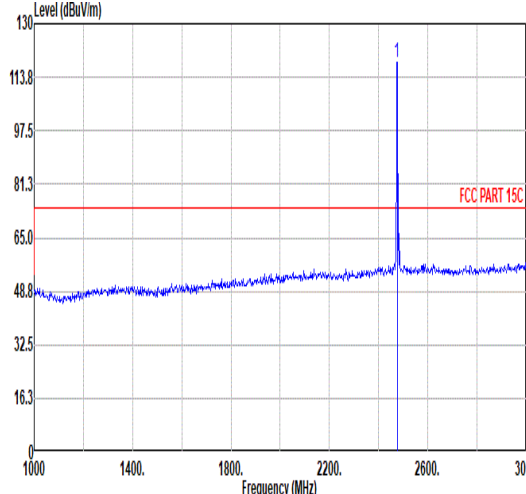
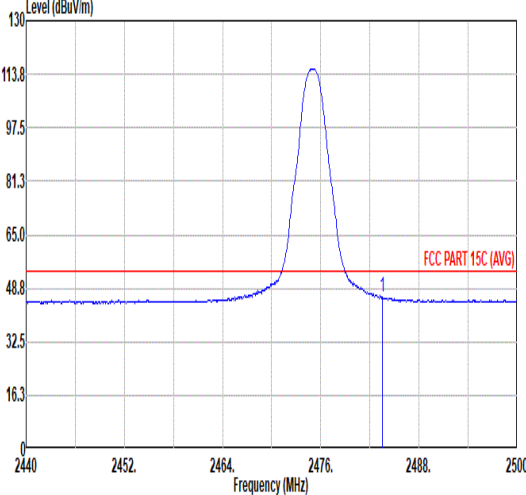
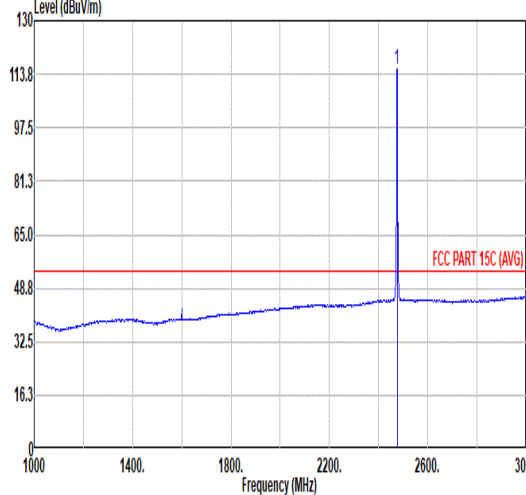


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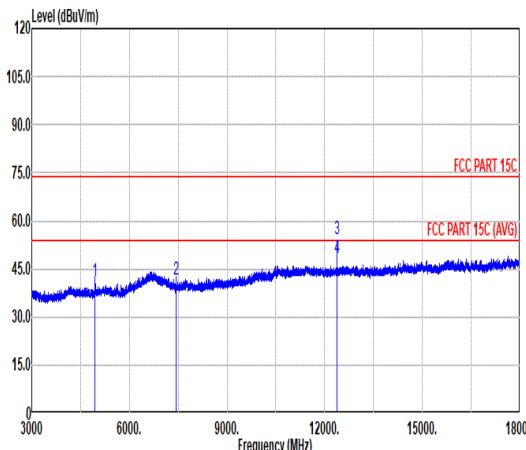
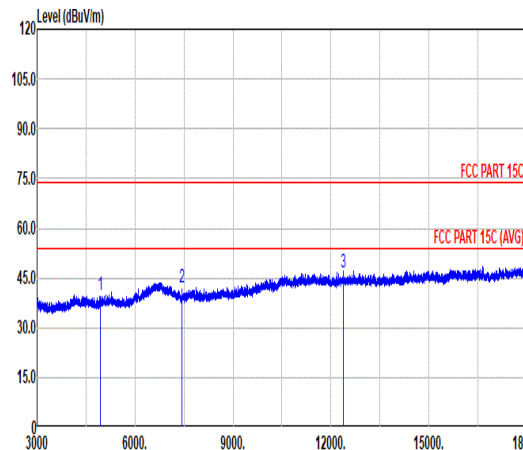


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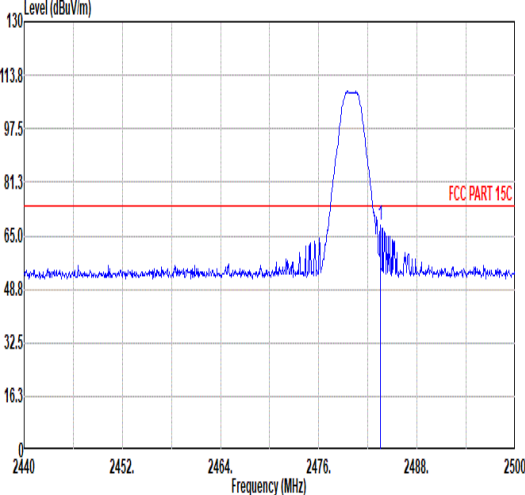
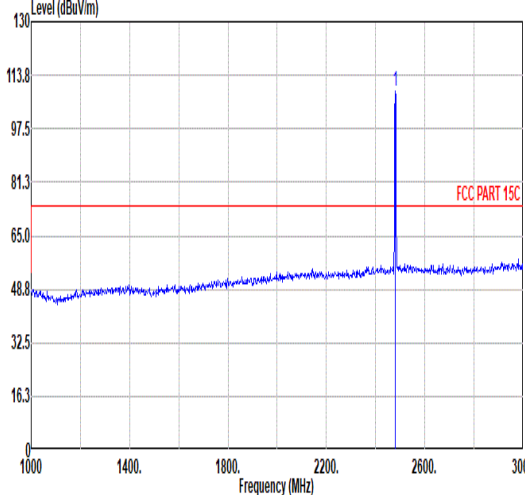
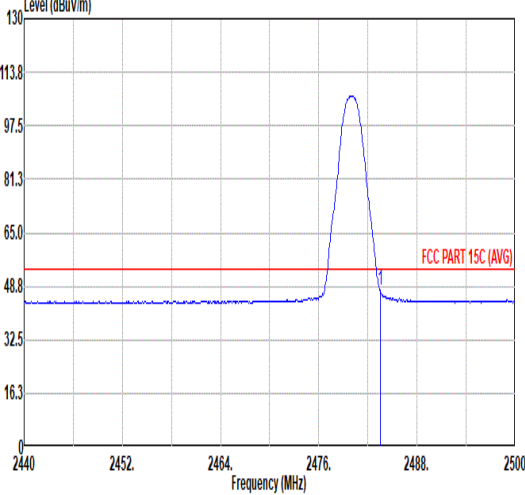
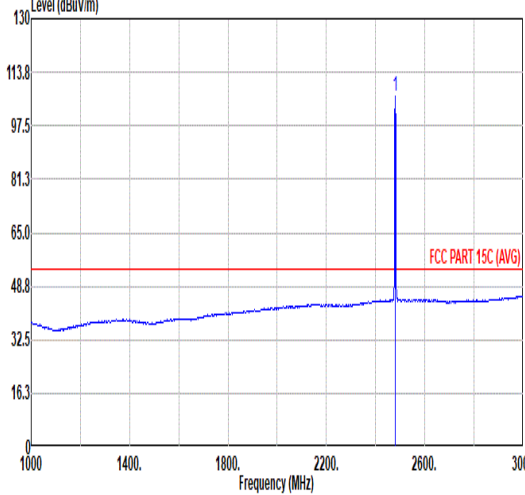


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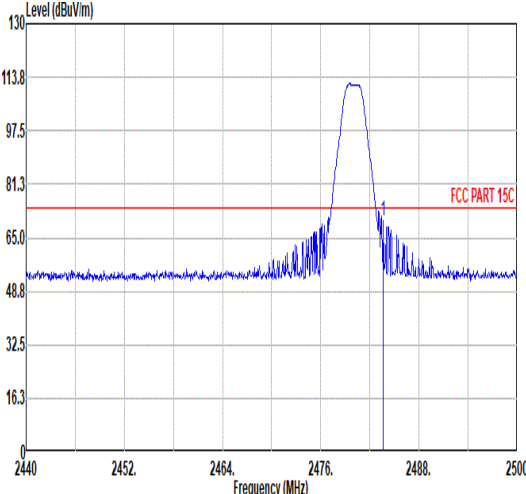
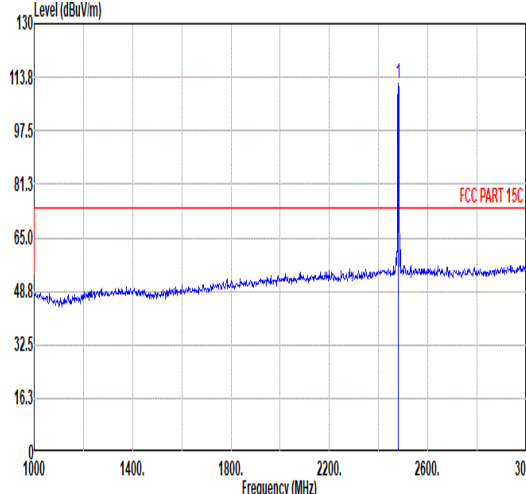
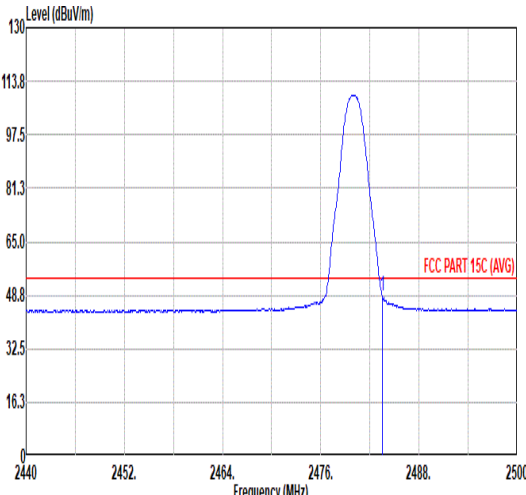
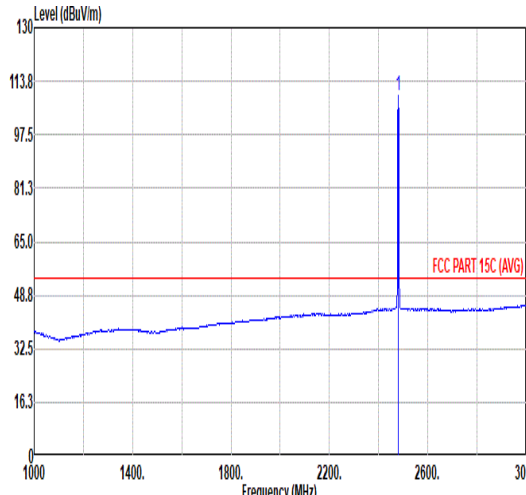


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	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</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>2483.50</td><td>48.75</td><td>54.00</td><td>-5.25</td><td>35.65</td><td>32.60</td><td>6.73</td><td>32.23</td><td>6.00</td><td>100</td><td>169 AVERAGE</td></tr></table>						Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2483.50	48.75	54.00	-5.25	35.65	32.60	6.73	32.23	6.00	100	169 AVERAGE	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</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>2480.00</td><td>109.42</td><td>-----</td><td>-----</td><td>96.34</td><td>32.58</td><td>6.73</td><td>32.23</td><td>6.00</td><td>100</td><td>169 AVERAGE</td></tr></table>						Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2480.00	109.42	-----	-----	96.34	32.58	6.73	32.23	6.00	100
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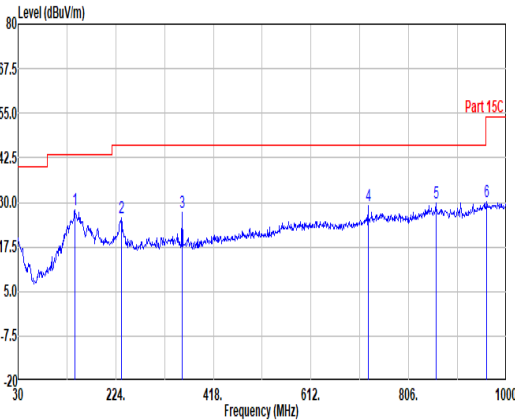
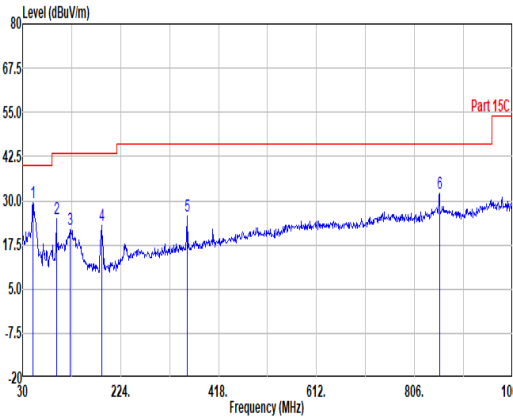


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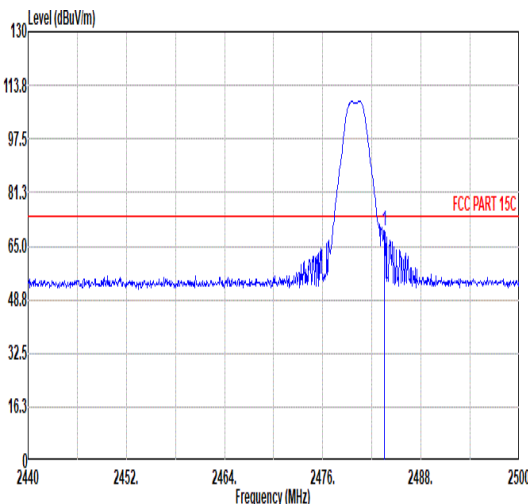
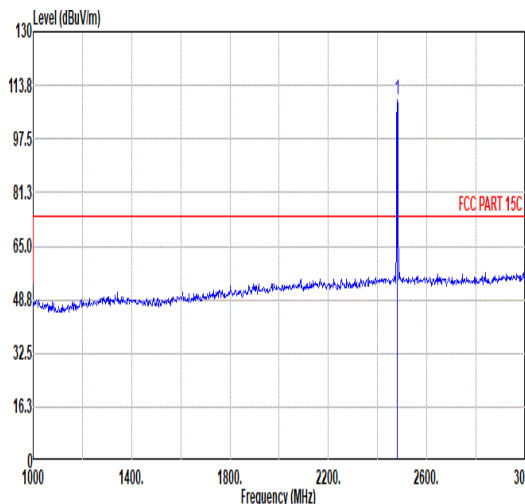
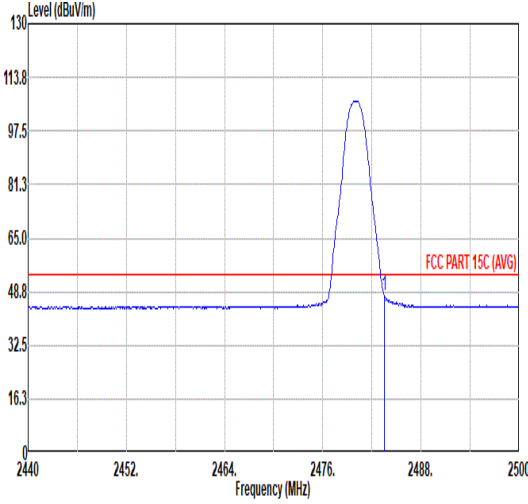
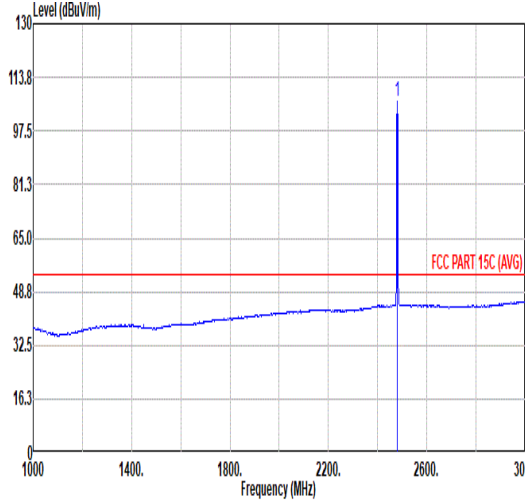
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Pol.	Horizontal	Vertical
Peak Avg	Level (dBuV/m) Frequency (MHz) FCC PART 15C FCC PART 15C (AVG) The plot shows a noisy signal centered around 48.8 dBuV/m across the frequency range from 18000 to 25000 MHz. Two horizontal red lines indicate the FCC Part 15C limits: one at approximately 75 dBuV/m and another at approximately 55 dBuV/m.	Level (dBuV/m) Frequency (MHz) FCC PART 15C FCC PART 15C (AVG) The plot shows a noisy signal centered around 48.8 dBuV/m across the frequency range from 18000 to 25000 MHz. Two horizontal red lines indicate the FCC Part 15C limits: one at approximately 75 dBuV/m and another at approximately 55 dBuV/m.



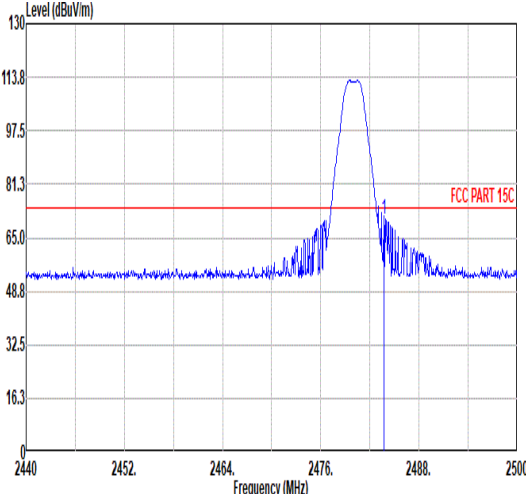
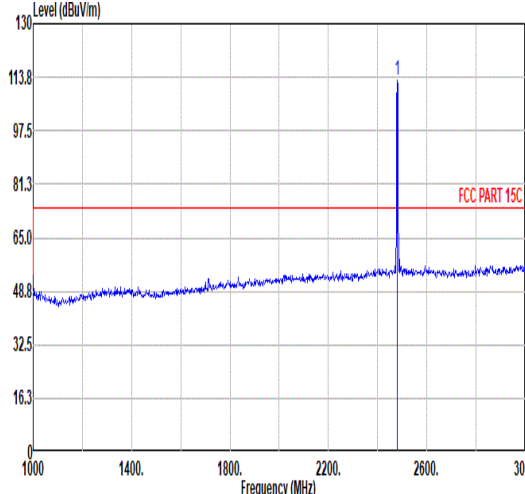
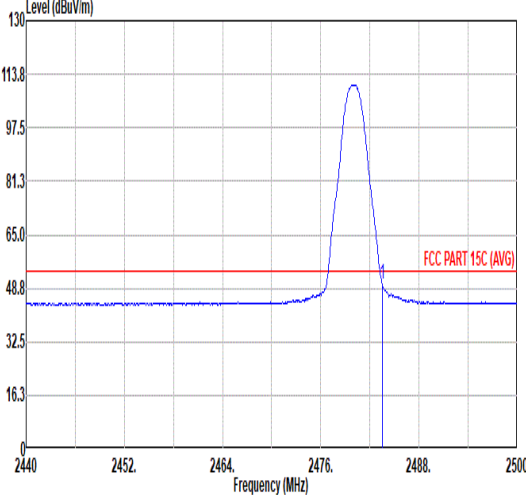
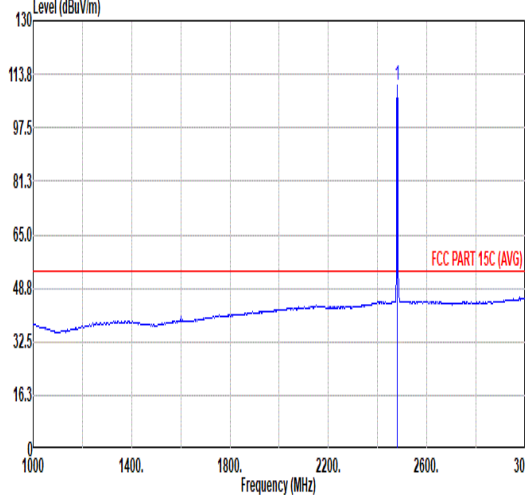
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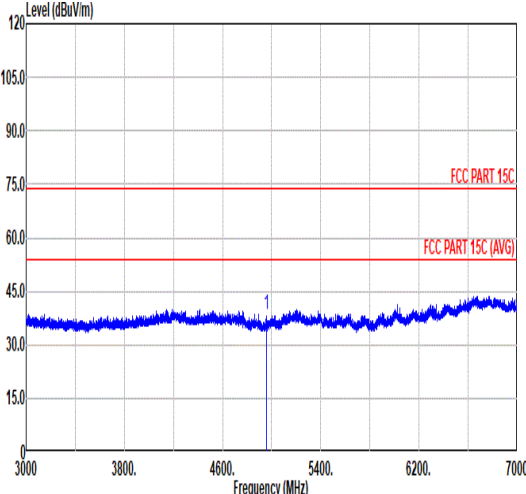
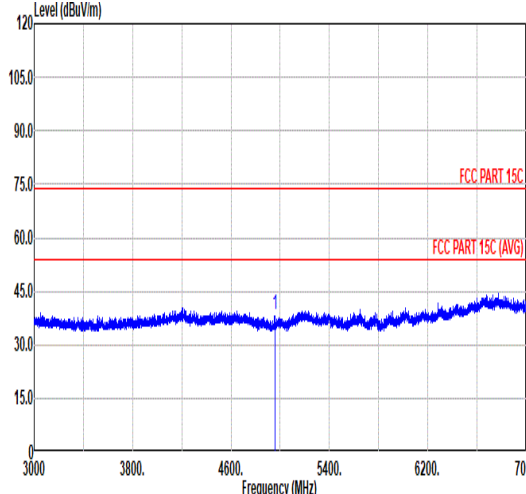
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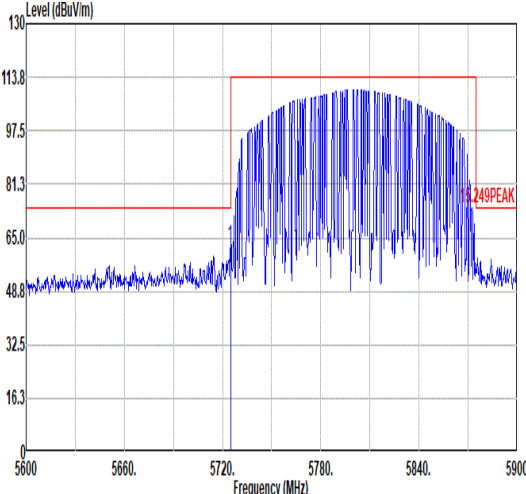
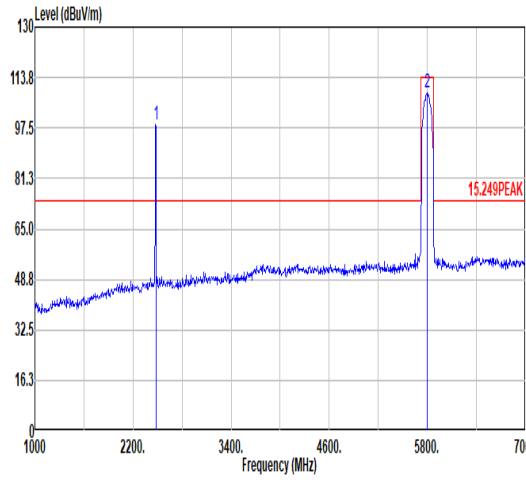
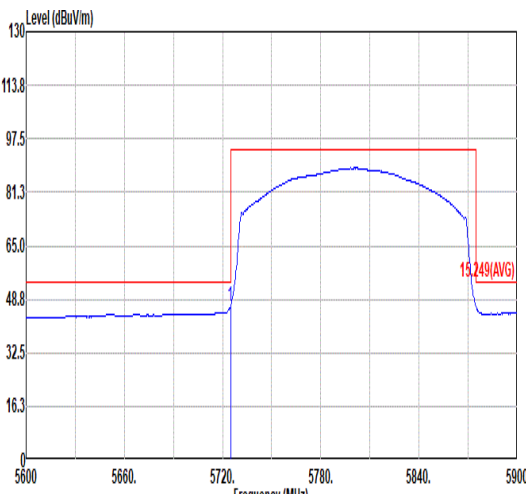
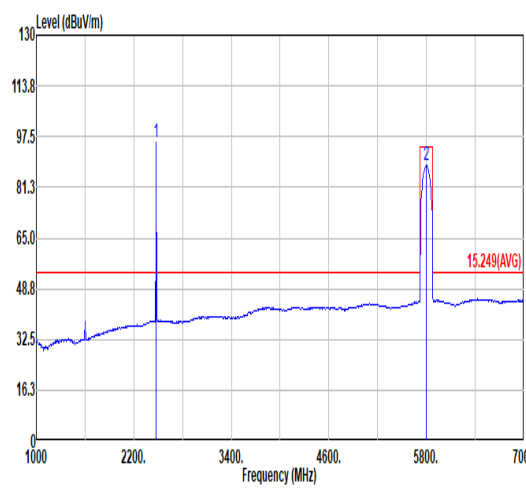


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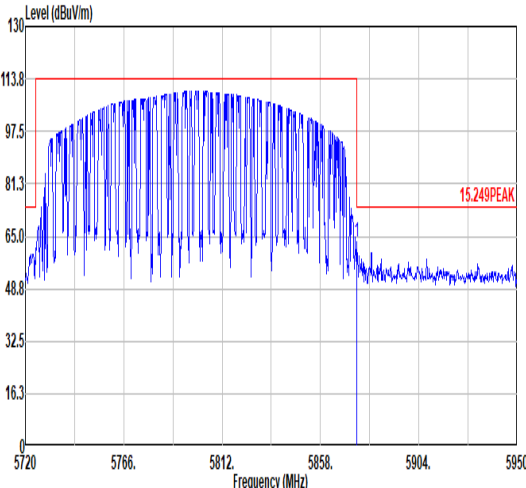
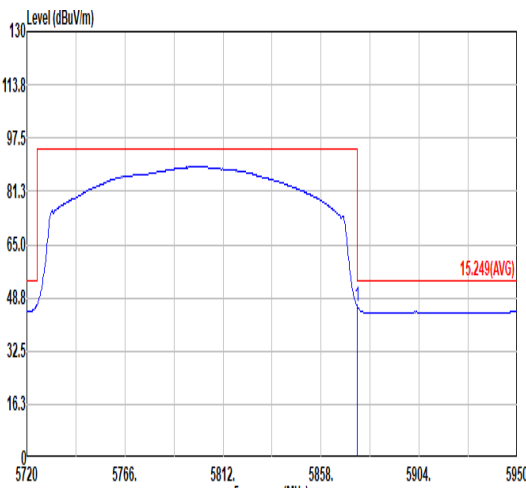


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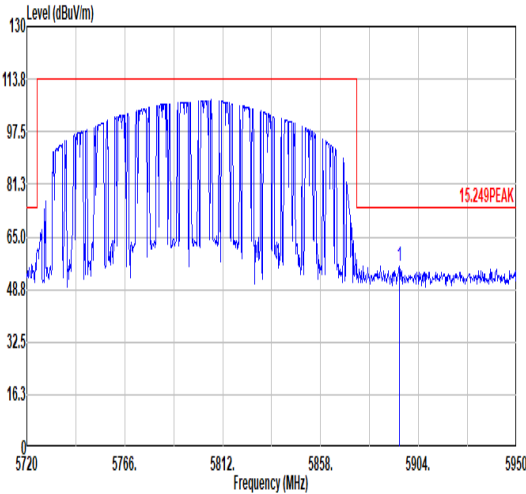
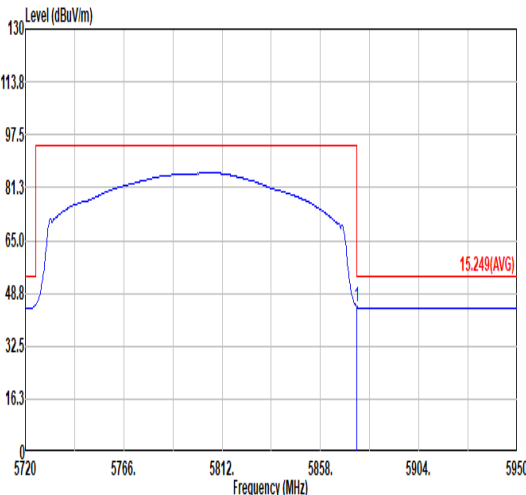


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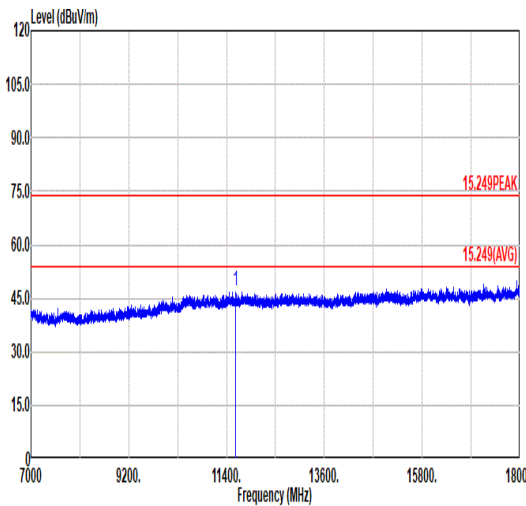
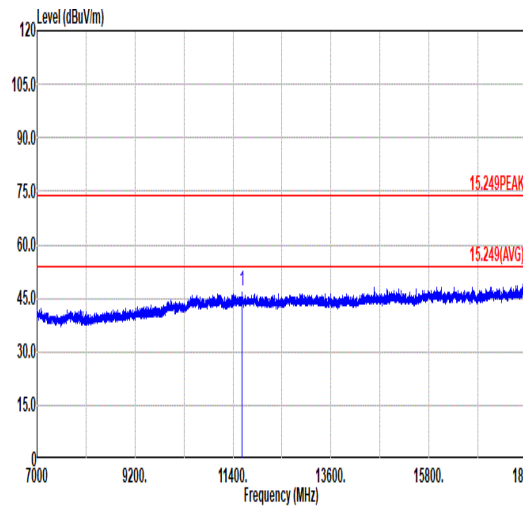


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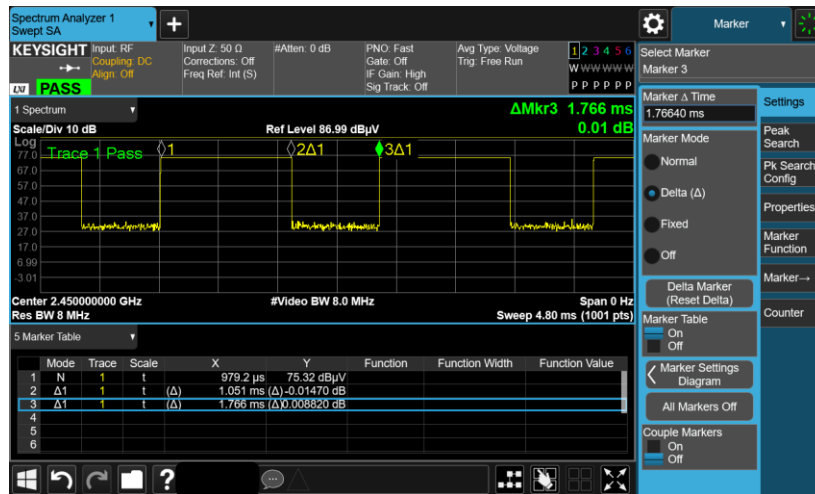


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Appendix D. Duty Cycle Plots

Mode	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Zigbee for Sample 1	59.51	1.051	0.951	1KHz
Zigbee for Sample 2	58.93	1.056	0.947	1KHz

Zigbee mode for Sample 1



Zigbee mode for Sample 2

