



# FCC RADIO TEST REPORT

**FCC ID** : HLZA22001  
**Equipment** : Tablet PC  
**Brand Name** : acer  
**Model Name** : A22001  
**Marketing Name** : Iconia Tab P10, P10-11, Iconia Tab M10, M10-11  
**Applicant** : Acer Incorporated  
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City  
22181, Taiwan (R.O.C)  
**Manufacturer** : Hunan Greatwall Computer System Co.,Ltd  
Hunan GreatWall Industrial Park, Xiangyun Middle Road,  
Tianyuan District, Zhuzhou, Hunan Province, China.  
**Standard** : FCC Part 15 Subpart C §15.247

The product was received on Mar. 27, 2023 and testing was performed from Apr. 03, 2023 to May 04, 2023. We, Sporton International Inc. Wensan Laboratory, 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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### History of this test report

Report No.	Version	Description	Issue Date
FR332001C	01	Initial issue of report	May 08, 2023
FR332001C	02	Revise Appendix A This report is an updated version, replacing the report issued on May 08, 2023.	May 10, 2023



### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	3.18 dB under the limit at 4874.000 MHz
3.6	15.207	AC Conducted Emission	Pass	10.74 dB under the limit at 0.484 MHz
3.7	15.203	Antenna Requirement	Pass	-

**Conformity Assessment Condition:**

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

**Reviewed by: Lewis Ho**  
**Report Producer: Ming Chen**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature
<b>General Specs</b> Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, and GNSS.
<b>Antenna Type</b> WLAN: FPC Antenna Bluetooth: FPC Antenna GPS / Glonass / Galileo: PIFA Antenna

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	-0.45

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.

## 1.3 Testing Location

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
<b>Test Site No.</b>	<b>Sporton Site No.</b> TH05-HY, CO07-HY, 03CH23-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786



## 1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.



## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
  
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		



## 2.2 Test Mode

The final test modes include the worst data rates for each modulation shown in the table below.

### Single Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

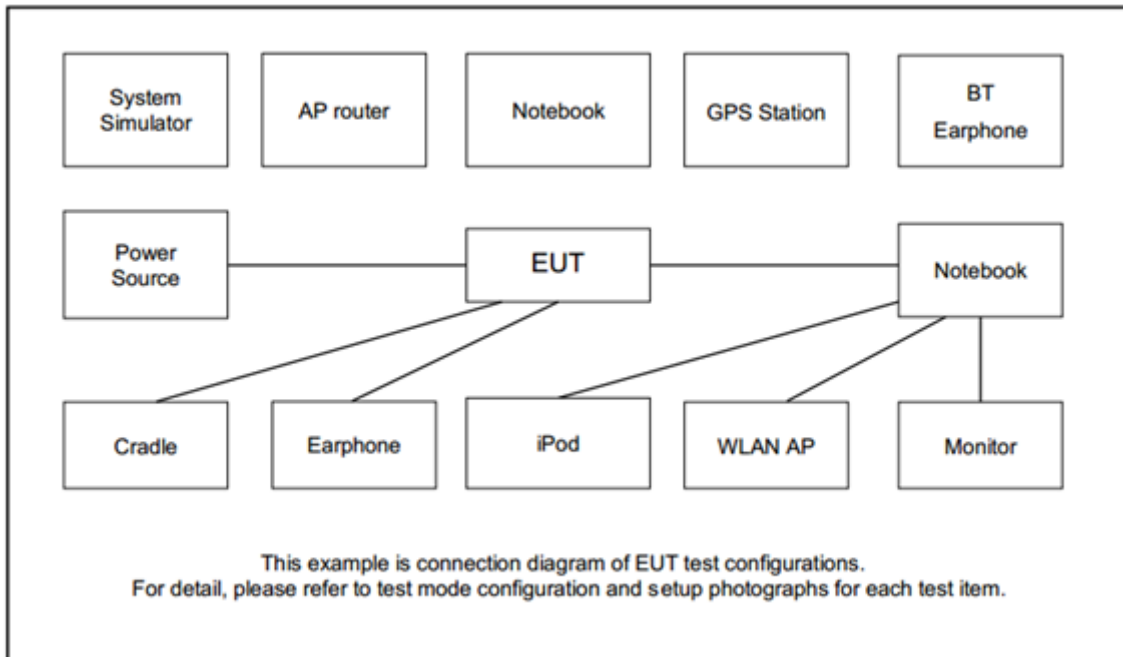
Test Cases	
<b>AC Conducted Emission</b>	Mode 1: Bluetooth Link + WLAN (2.4GHz) Link + MPEG4 + Earphone + USB Cable 1 (Charging from AC Adapter)  Mode 2: Bluetooth Link + WLAN (2.4GHz) Link + MPEG4 + Earphone + USB Cable 2 (Charging from AC Adapter)
<b>Remark:</b> 1. The worst case of Conducted Emission is mode 2; only the test data of it was reported. 2. For Radiated Test Cases, the tests were performed with USB Cable 1.	

Ch. #	2400-2483.5 MHz		
	802.11b	802.11g	802.11n HT20
Low	01	01	01
Middle	06	06	06
High	11	11	11

**Remark:** For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.



### 2.3 Connection Diagram of Test System



### 2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
2.	WLAN AP	ASUS	RT-AC52	N/A	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	P79G	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Earphone + Mic	Samsung	Ecouteur	N/A	Unshielded, 1.8 m	N/A
5.	Bluetooth Earphone	Kinyo	BTE-3622	N/A	N/A	N/A



## 2.5 EUT Operation Test Setup

The RF test items, make the EUT (SW: Acer\_AV0S0\_P10-11\_0\_006.00\_PAPAP\_GEN1.1) get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 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 4.2 dB and 10 dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

### 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

Please refer to the measuring equipment list in this test report.

##### 3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to 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 1-5% of the emission bandwidth and set the Video bandwidth (VBW)  $\geq 3 * RBW$ .
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

Please refer to Appendix A.

## 3.2 Output Power Measurement

### 3.2.1 Limit of Output Power

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

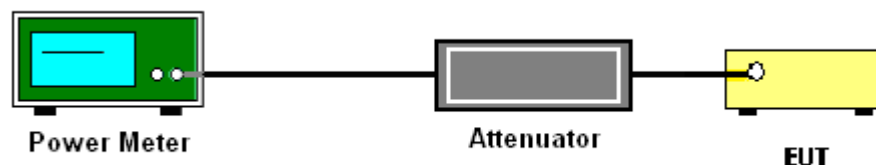
### 3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to 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 8 dBm in any 3 kHz band at any time interval of continuous transmission.

#### 3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

#### 3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to 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.

#### 3.3.4 Test Setup



#### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

## 3.4 Conducted Band Edges and Spurious Emission Measurement

### 3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

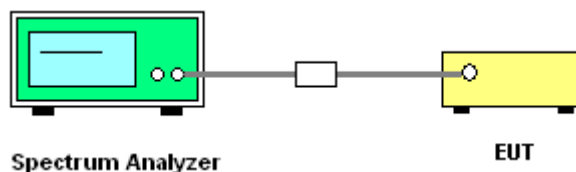
### 3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.4.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to 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 per 15.247(d).
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 and Spurious Emission

Please refer to Appendix A.



### 3.5 Radiated Band Edges and Spurious Emission Measurement

#### 3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

Frequency (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

Please refer to the measuring equipment list in this test report.

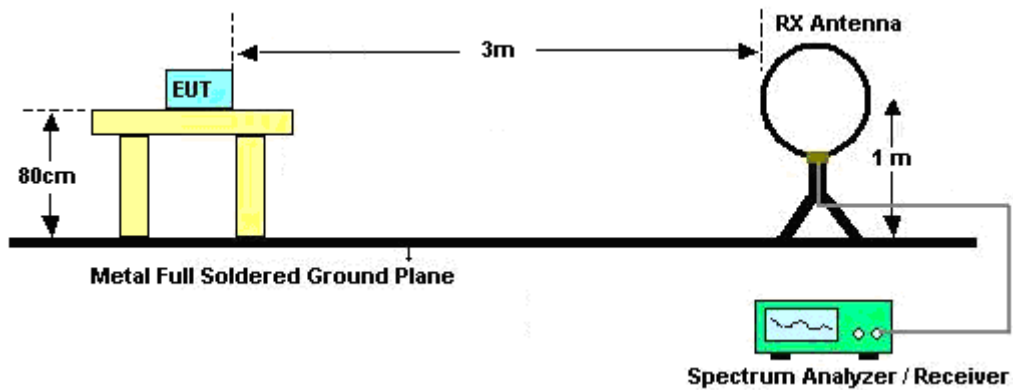
#### 3.5.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is 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 is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.

7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“.
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 = 3 MHz 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.

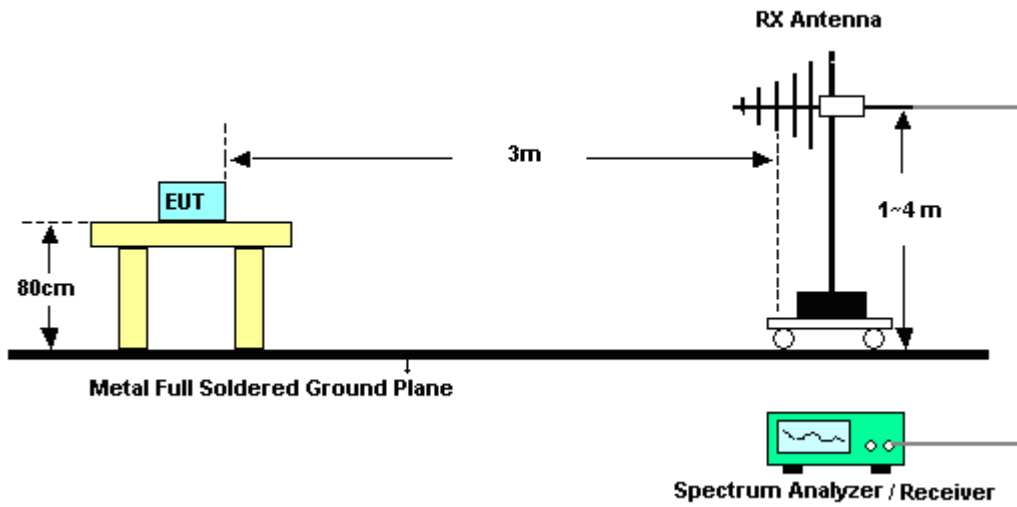
### 3.5.4 Test Setup

For radiated emissions below 30MHz

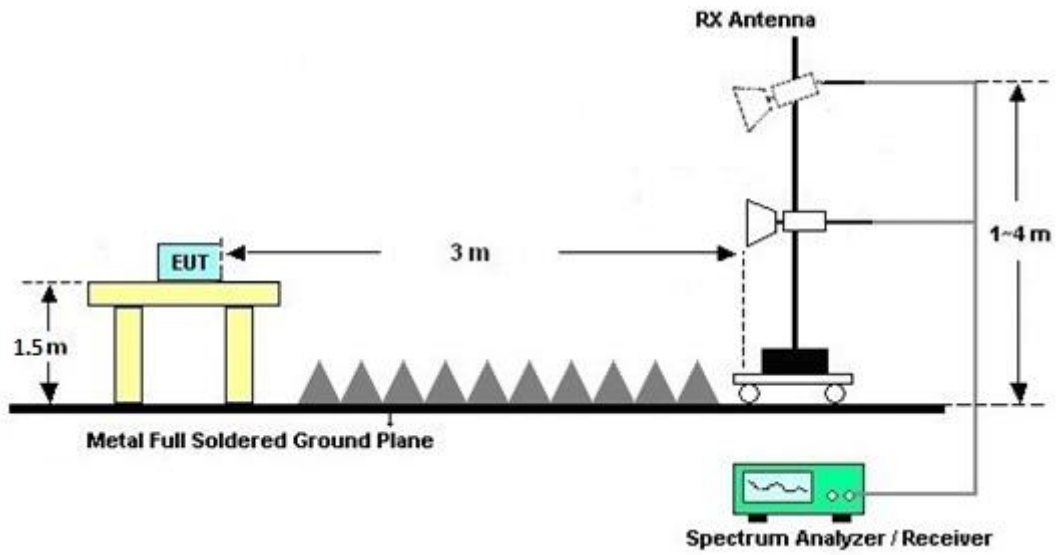




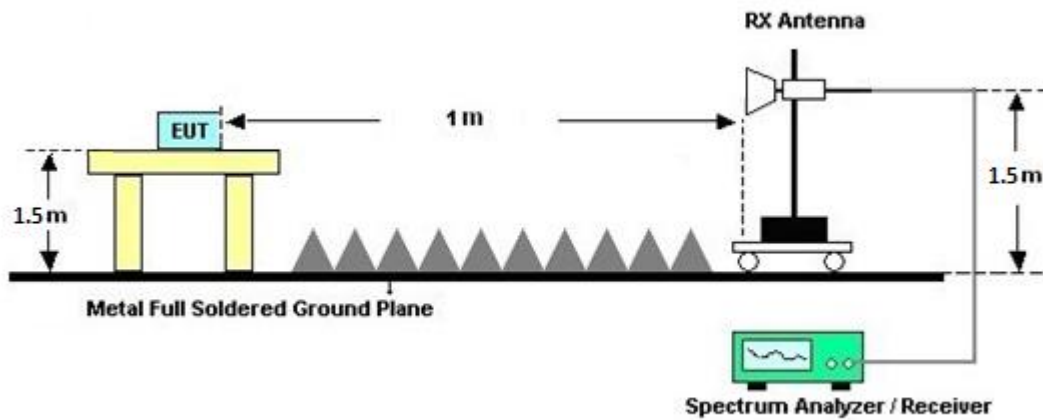
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

### 3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

### 3.5.7 Duty Cycle

Please refer to Appendix E.

### 3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10<sup>th</sup> Harmonic)

Please refer to Appendix C and 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 (dBµV)	
	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.

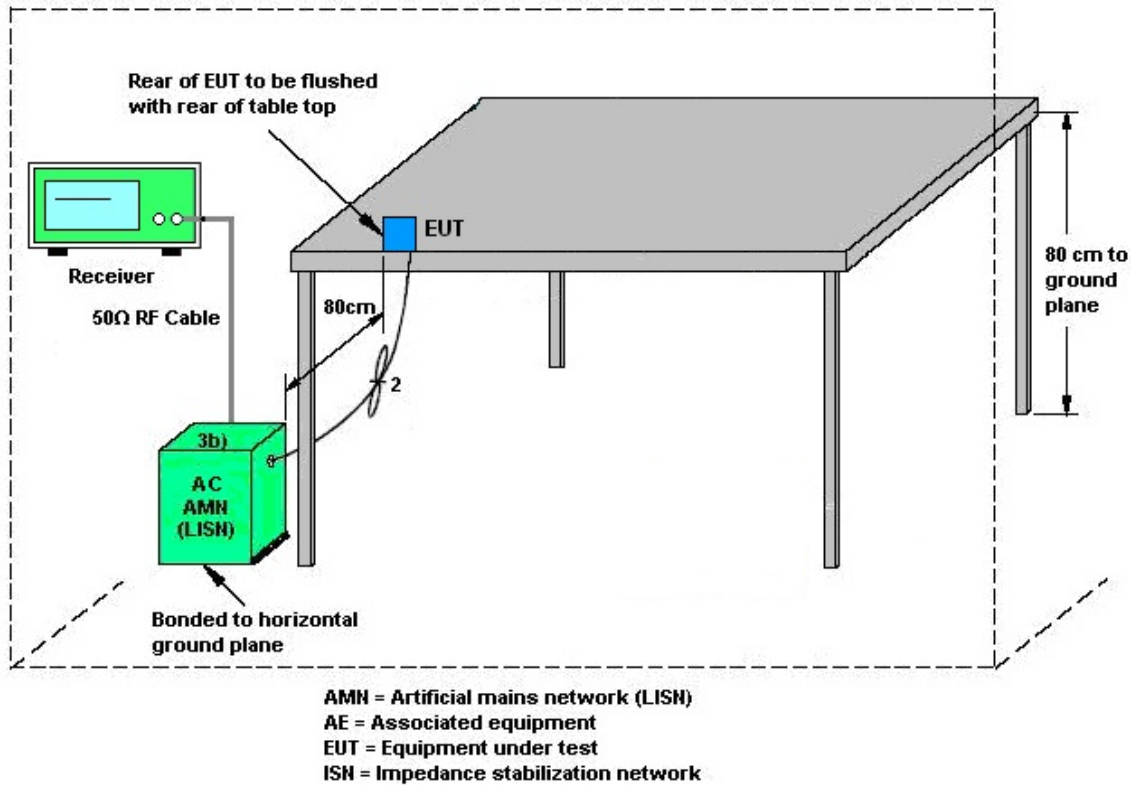
#### 3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

#### 3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

### 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**

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.



## 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 17, 2022	Apr. 03, 2023~ Apr. 29, 2023	Nov. 16, 2023	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16100054SNO 12 (NO:113)	10MHz~6GHz	Dec. 13, 2022	Apr. 03, 2023~ Apr. 29, 2023	Dec. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz - 40GHz(amp)	Aug. 03, 2022	Apr. 03, 2023~ Apr. 29, 2023	Aug. 02, 2023	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Apr. 23, 2023~ May 02, 2023	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 23, 2023~ May 02, 2023	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Nov. 01, 2022	Apr. 23, 2023~ May 02, 2023	Oct. 31, 2023	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 15, 2023	Apr. 23, 2023~ May 02, 2023	Mar. 14, 2024	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 05, 2023	Apr. 23, 2023~ May 02, 2023	Mar. 04, 2024	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Oct. 06, 2022	Apr. 23, 2023~ May 02, 2023	Oct. 05, 2023	Conduction (CO07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Apr. 26, 2023~ May 04, 2023	Sep. 19, 2023	Radiation (03CH23-HY)
Bilog Antenna with 6dB pad	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	62028 & 003	N/A	Oct. 11, 2022	Apr. 26, 2023~ May 04, 2023	Oct. 10, 2023	Radiation (03CH23-HY)
Amplifier	SONOMA	310N	421582	N/A	Jul. 16, 2022	Apr. 26, 2023~ May 04, 2023	Jul. 15, 2023	Radiation (03CH23-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C05A18EN	1GHz~18GHz	Jul. 06, 2022	Apr. 26, 2023~ May 04, 2023	Jul. 05, 2023	Radiation (03CH23-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	1223	18GHz-40GHz	Jul. 05, 2022	Apr. 26, 2023~ May 04, 2023	Jul. 04, 2023	Radiation (03CH23-HY)
Amplifier	EMEC	EM01G18GA	060878	N/A	Sep. 29, 2022	Apr. 26, 2023~ May 04, 2023	Sep. 28, 2023	Radiation (03CH23-HY)
Preamplifier	EMEC	EM18G40G	060872	18-40GHz	Sep. 28, 2022	Apr. 26, 2023~ May 04, 2023	Sep. 27, 2023	Radiation (03CH23-HY)
Signal Analyzer	Keysight	N9010B	MY62170337	N/A	Sep. 11, 2022	Apr. 26, 2023~ May 04, 2023	Sep. 10, 2023	Radiation (03CH23-HY)
Hygrometer	TECEPEL	DTM-303B	TP211542	N/A	Nov. 17, 2022	Apr. 26, 2023~ May 04, 2023	Nov. 16, 2023	Radiation (03CH23-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 26, 2023~ May 04, 2023	N/A	Radiation (03CH23-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Apr. 26, 2023~ May 04, 2023	N/A	Radiation (03CH23-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Apr. 26, 2023~ May 04, 2023	N/A	Radiation (03CH23-HY)
Software	Audix	E3 6.09824_2019122	RK-002347	N/A	N/A	Apr. 26, 2023~ May 04, 2023	N/A	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 07, 2023	Apr.26, 2023~ May 04, 2023	Mar. 06, 2024	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804392/2,804610/2,804613/2	N/A	Oct. 25, 2022	Apr. 26, 2023~ May 04, 2023	Oct. 24, 2023	Radiation (03CH23-HY)



## 5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.46 dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.8 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.4 dB
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### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.3 dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.2 dB
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**Appendix A. Test Result of Conducted Test Items**

Test Engineer:	Mina Liu	Temperature:	21~25	°C
Test Date:	2023/4/3~2023/4/29	Relative Humidity:	51~54	%



**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

2.4GHz Band Single Antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	1	1	2412	13.04	-	8.12	-	0.50	Pass
11b	1Mbps	1	6	2437	13.09	-	8.56	-	0.50	Pass
11b	1Mbps	1	11	2462	13.14	-	8.08	-	0.50	Pass
11g	6Mbps	1	1	2412	17.78	-	15.10	-	0.50	Pass
11g	6Mbps	1	6	2437	17.88	-	15.74	-	0.50	Pass
11g	6Mbps	1	11	2462	17.93	-	15.72	-	0.50	Pass
HT20	MCS0	1	1	2412	18.13	-	15.16	-	0.50	Pass
HT20	MCS0	1	6	2437	18.18	-	15.32	-	0.50	Pass
HT20	MCS0	1	11	2462	18.43	-	16.36	-	0.50	Pass

**TEST RESULTS DATA**  
**Average Output Power**

2.4GHz Band Single Antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	13.30	-		30.00	-	-0.45	-	12.85	-	36.00	-	Pass
11b	1Mbps	1	6	2437	13.60	-		30.00	-	-0.45	-	13.15	-	36.00	-	Pass
11b	1Mbps	1	11	2462	12.70	-		30.00	-	-0.45	-	12.25	-	36.00	-	Pass
11g	6Mbps	1	1	2412	13.80	-		30.00	-	-0.45	-	13.35	-	36.00	-	Pass
11g	6Mbps	1	6	2437	13.80	-		30.00	-	-0.45	-	13.35	-	36.00	-	Pass
11g	6Mbps	1	11	2462	14.00	-		30.00	-	-0.45	-	13.55	-	36.00	-	Pass
HT20	MCS0	1	1	2412	13.60	-		30.00	-	-0.45	-	13.15	-	36.00	-	Pass
HT20	MCS0	1	6	2437	13.70	-		30.00	-	-0.45	-	13.25	-	36.00	-	Pass
HT20	MCS0	1	11	2462	13.90	-		30.00	-	-0.45	-	13.45	-	36.00	-	Pass

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Peak Power Spectral Density**

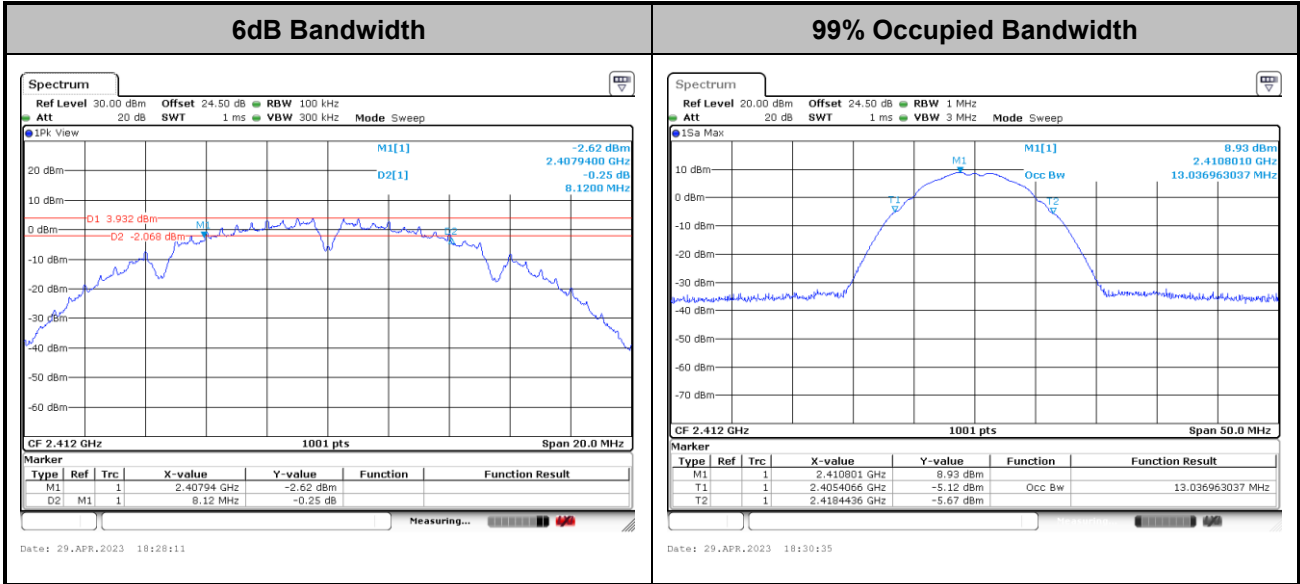
2.4GHz Band Single Antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	-10.82	-		-0.45	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-9.56	-		-0.45	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-11.13	-		-0.45	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-13.34	-		-0.45	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-11.63	-		-0.45	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-12.08	-		-0.45	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-11.74	-		-0.45	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-12.89	-		-0.45	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-11.50	-		-0.45	-	8.00	-	Pass

Measured power density (dBm) has offset with cable loss.



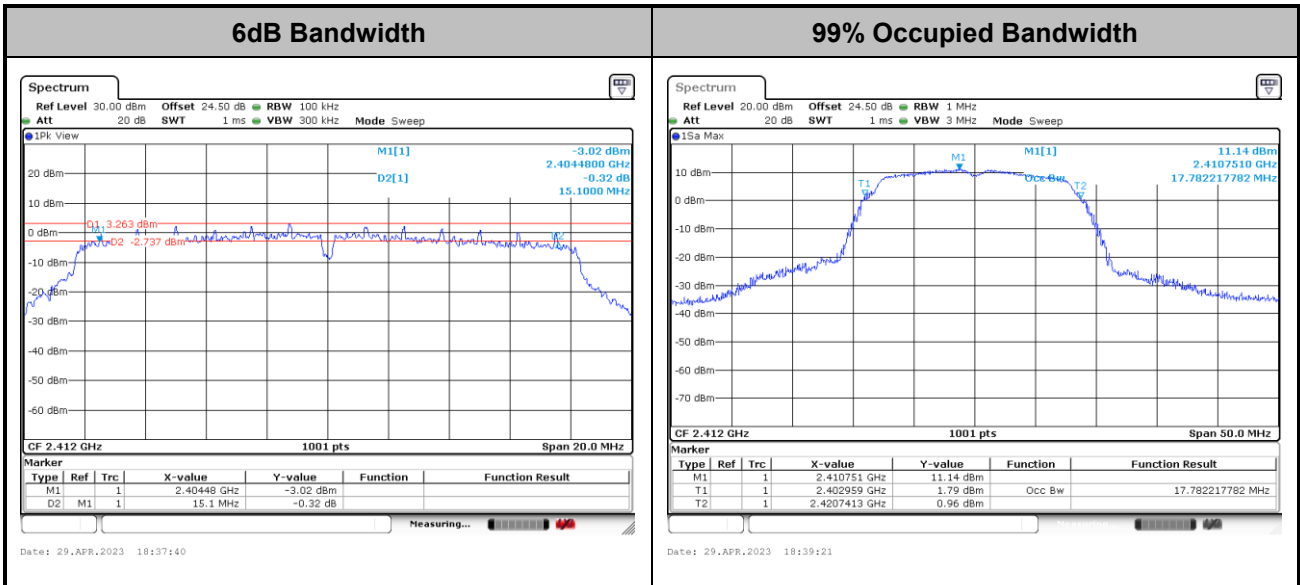
# 6dB and 99% Occupied Bandwidth

<802.11b>



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

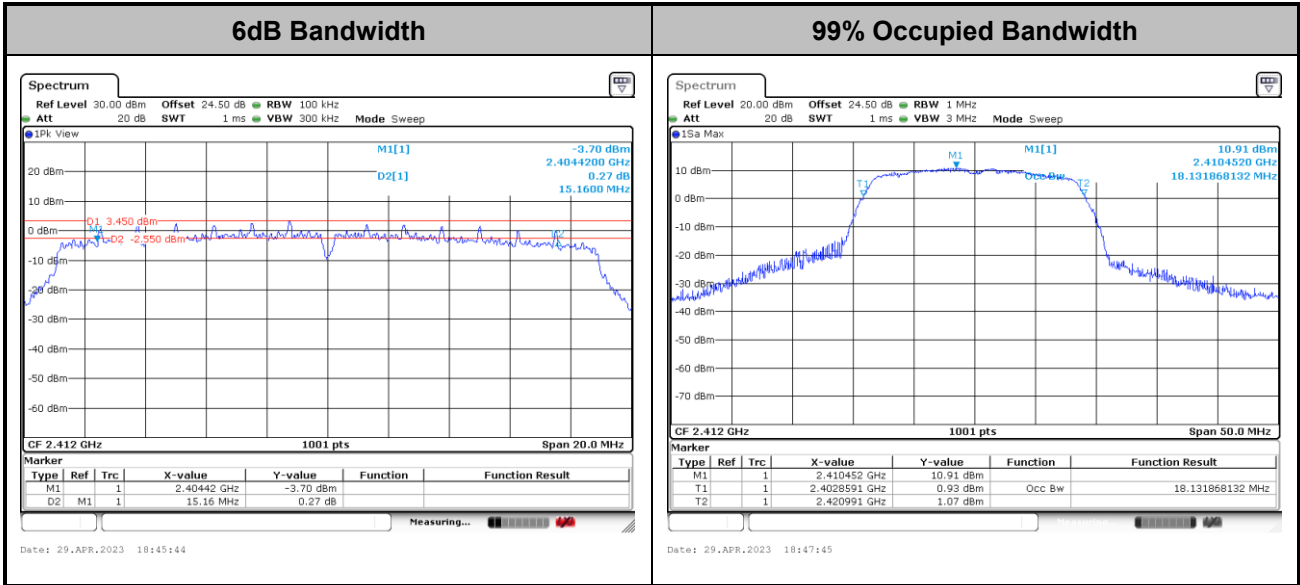
<802.11g>



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



<802.11n HT20>

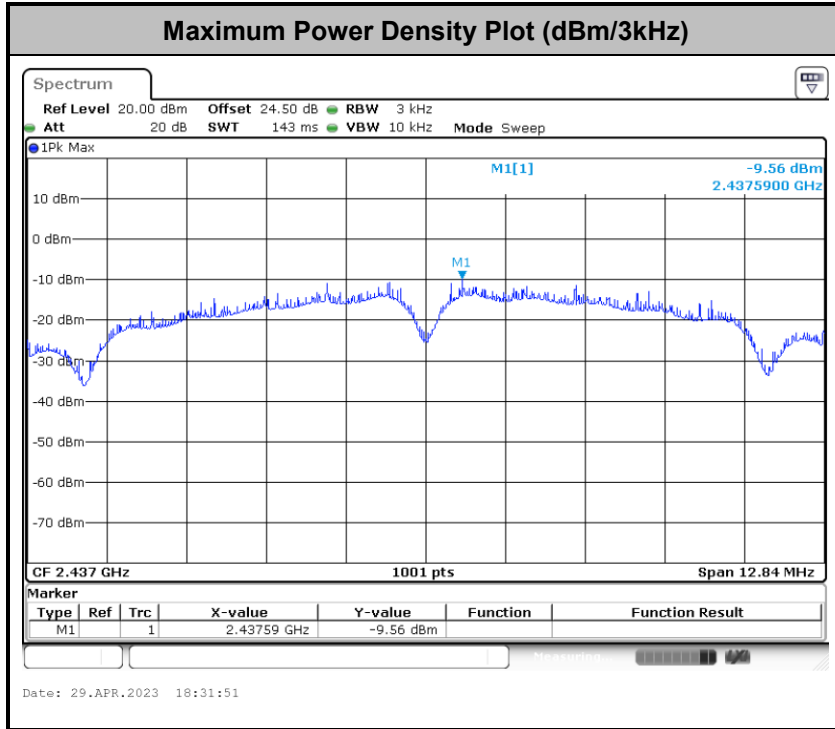


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

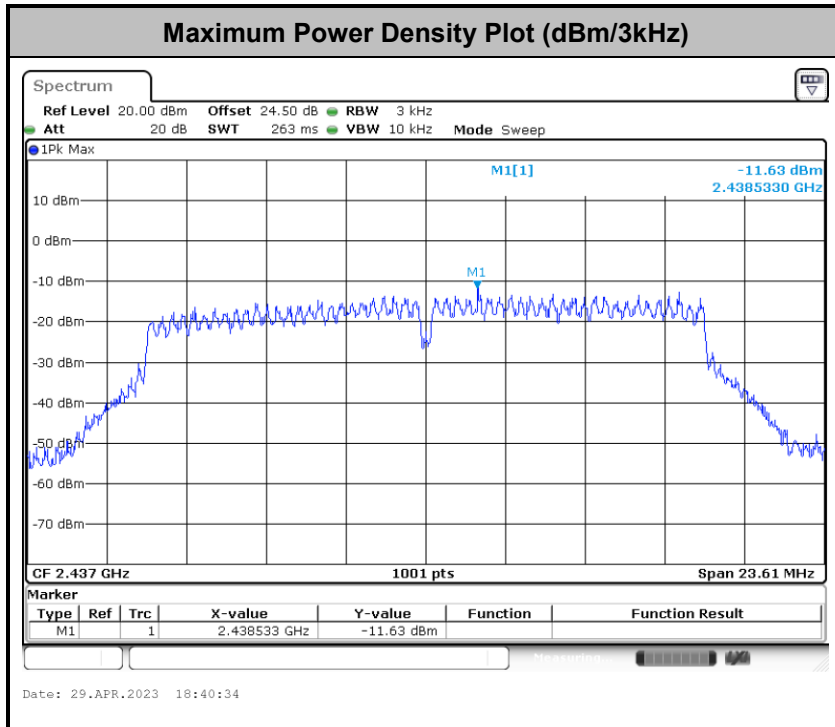


# Power Spectral Density(dBm/3kHz)

<802.11b>

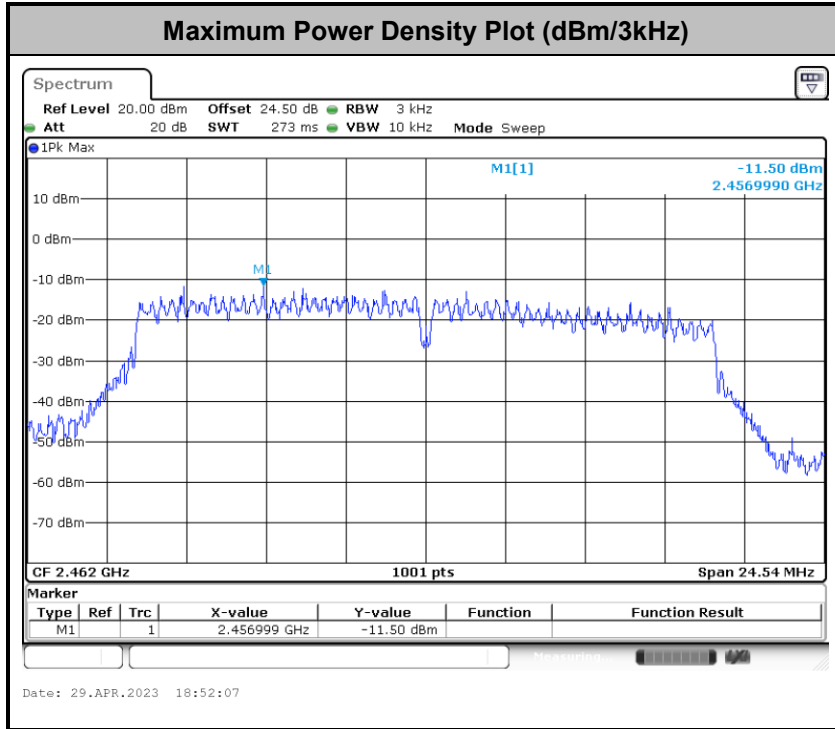


<802.11g>





<802.11n HT20>

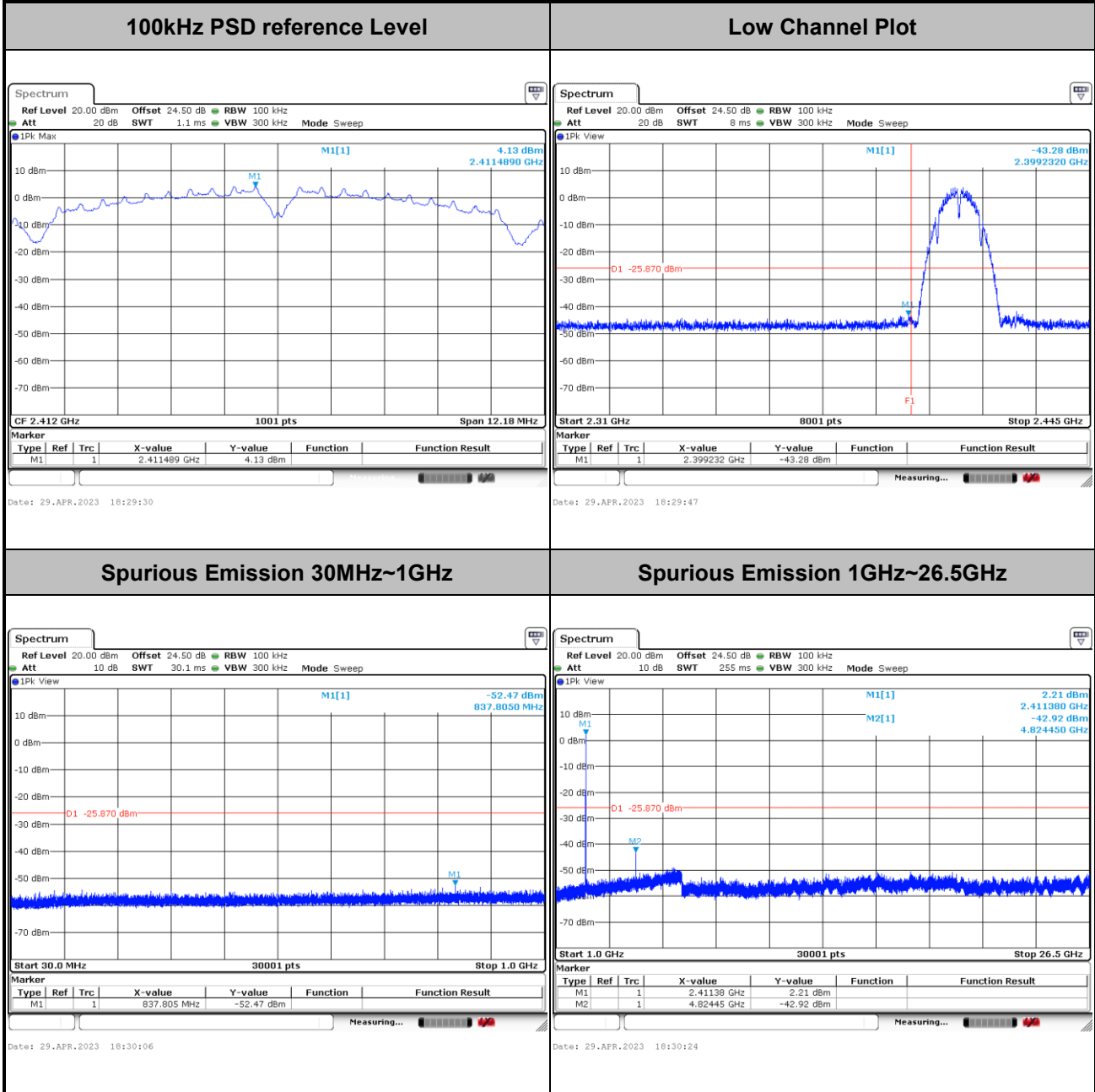




# Band Edges and Spurious Emission

Number of TX = 1, Ant. 1 (Measured)

Test Mode :	802.11b	Test Channel :	01
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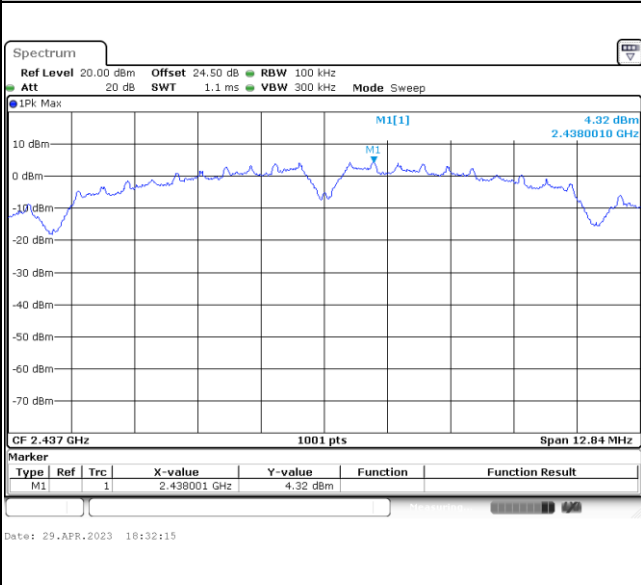




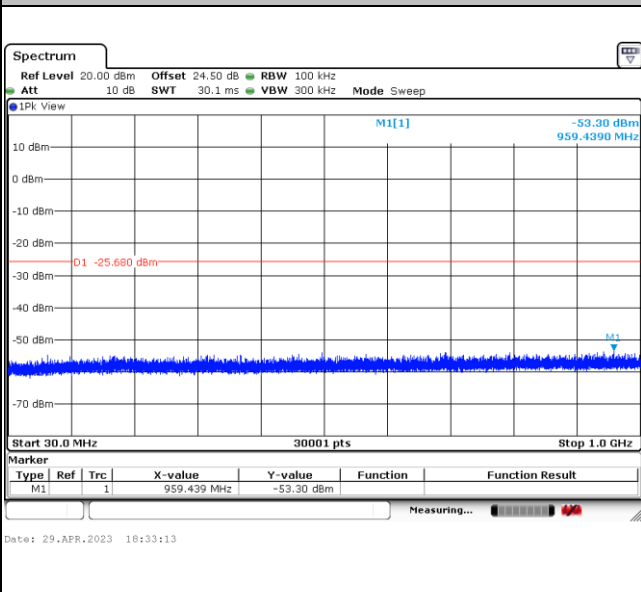


Test Mode :	802.11b	Test Channel :	06
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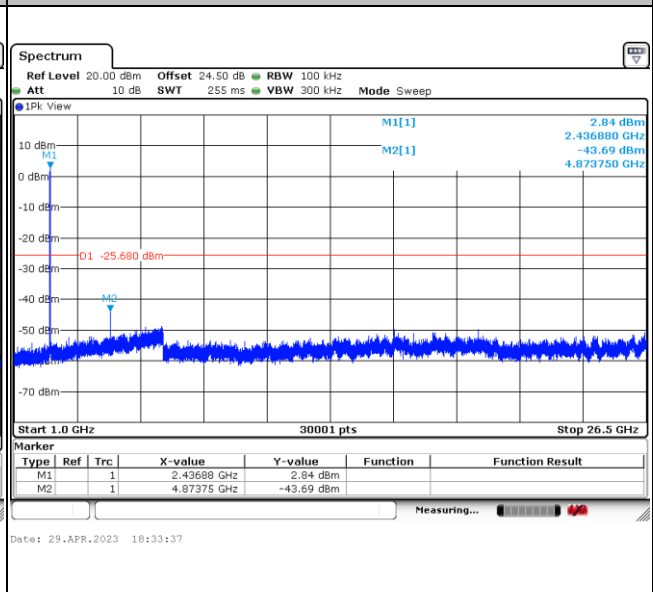
<b>100kHz PSD reference Level</b>	<b>Mid Channel Plot</b>
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**Spurious Emission 30MHz~1GHz**

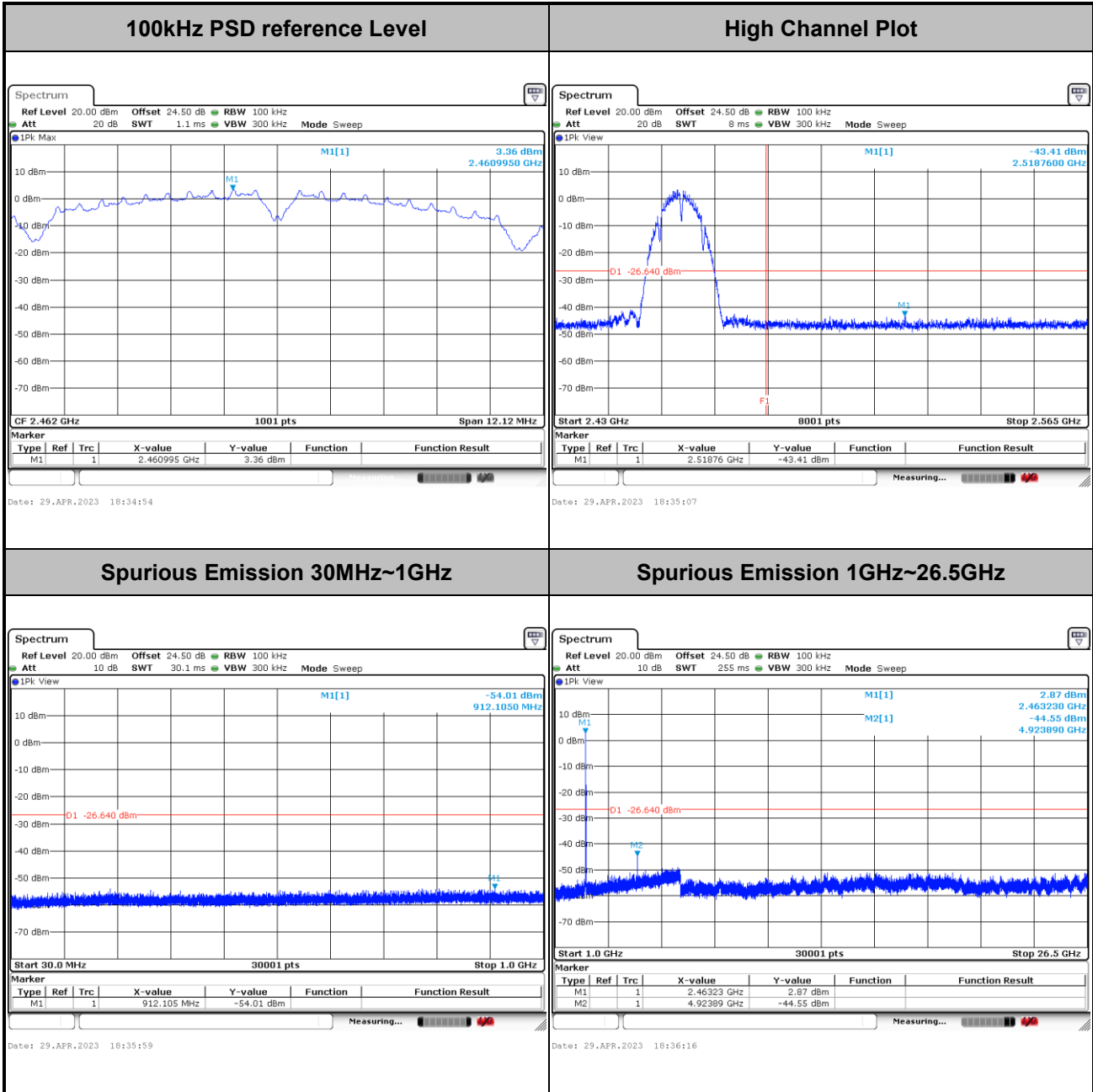


**Spurious Emission 1GHz~26.5GHz**



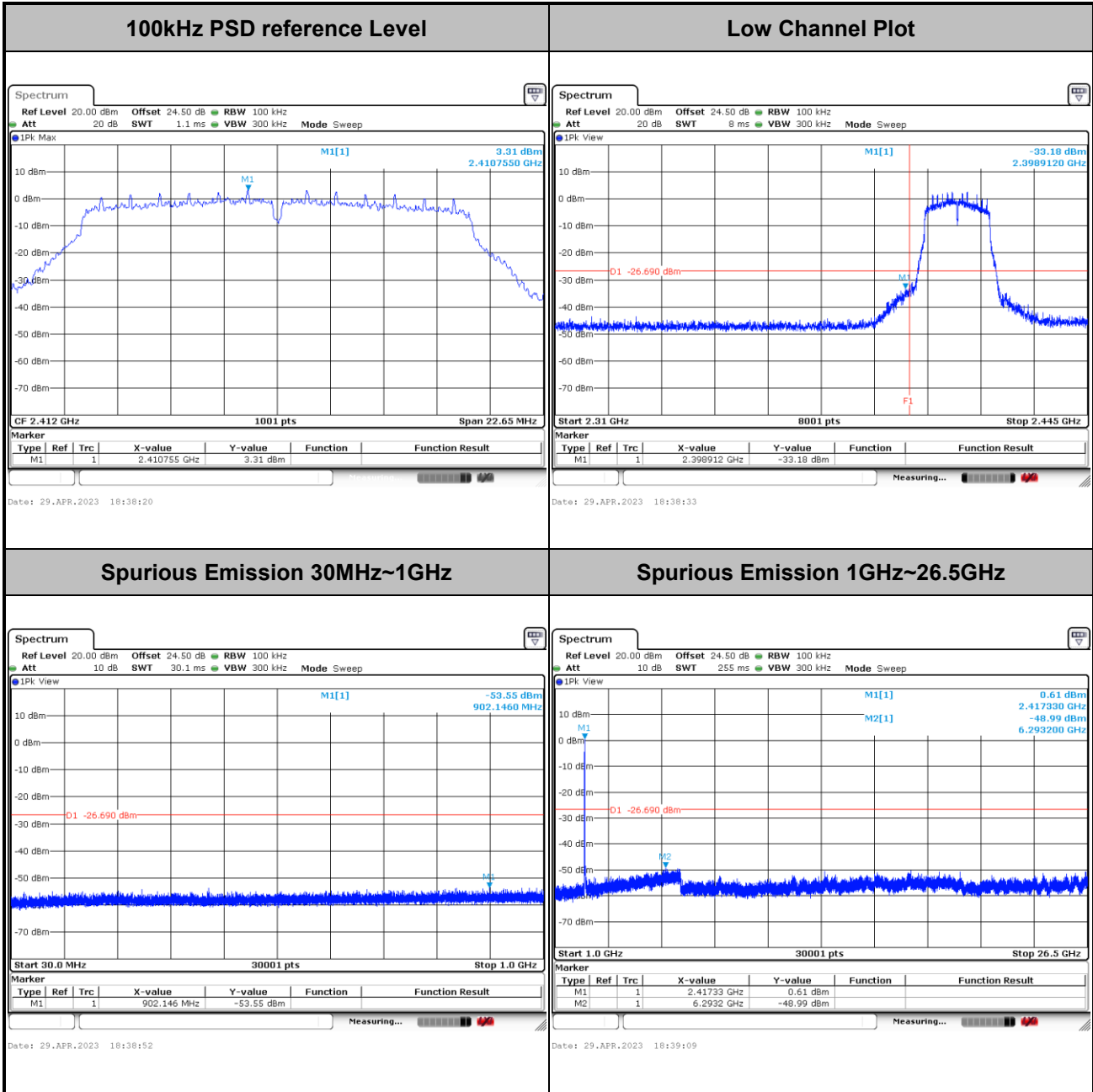


Test Mode :	802.11b	Test Channel :	11
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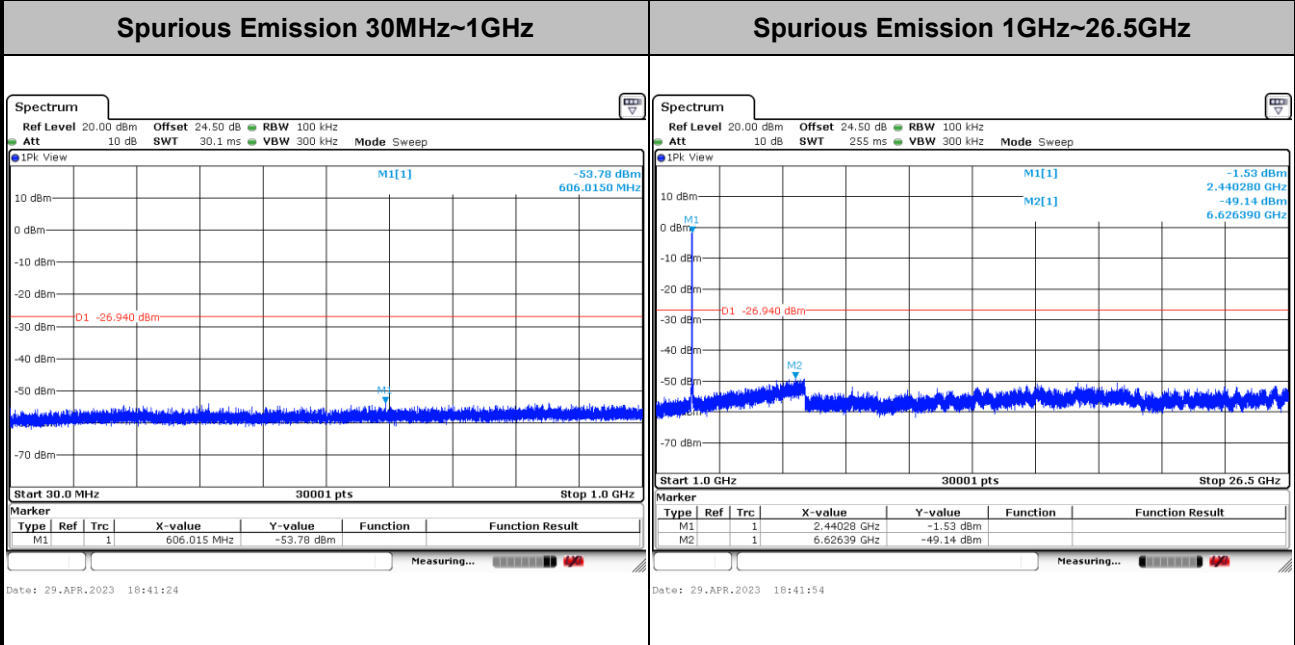
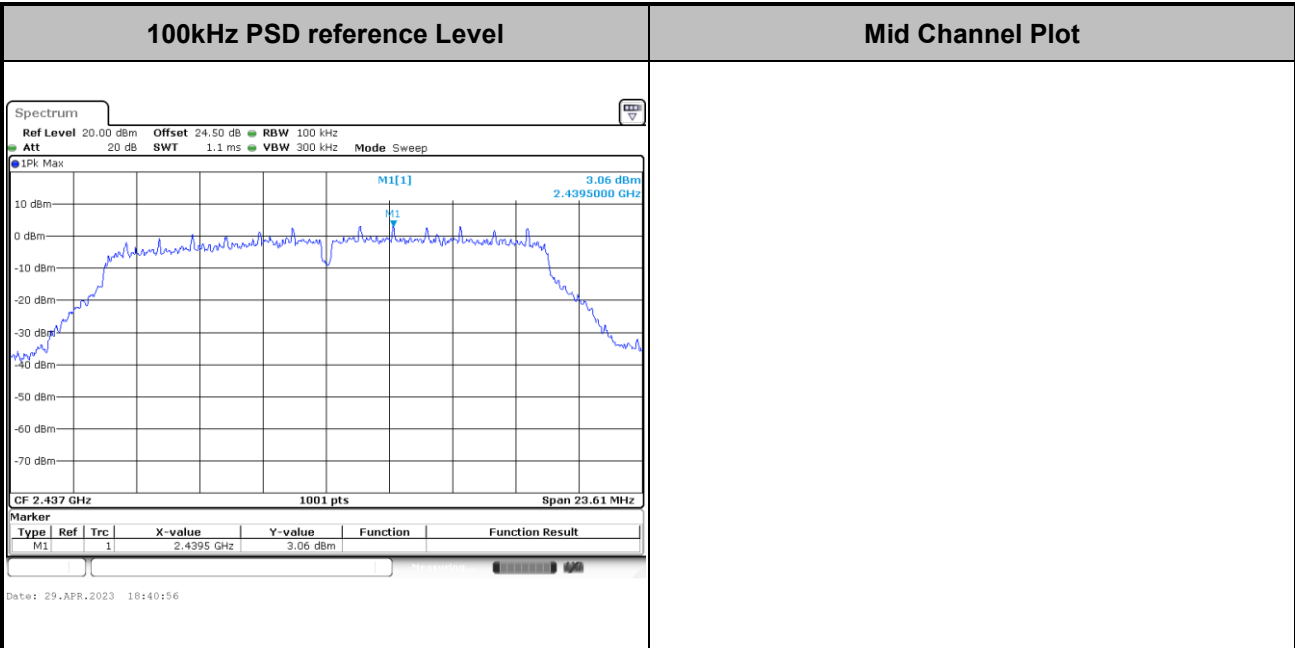


Test Mode :	802.11g	Test Channel :	01
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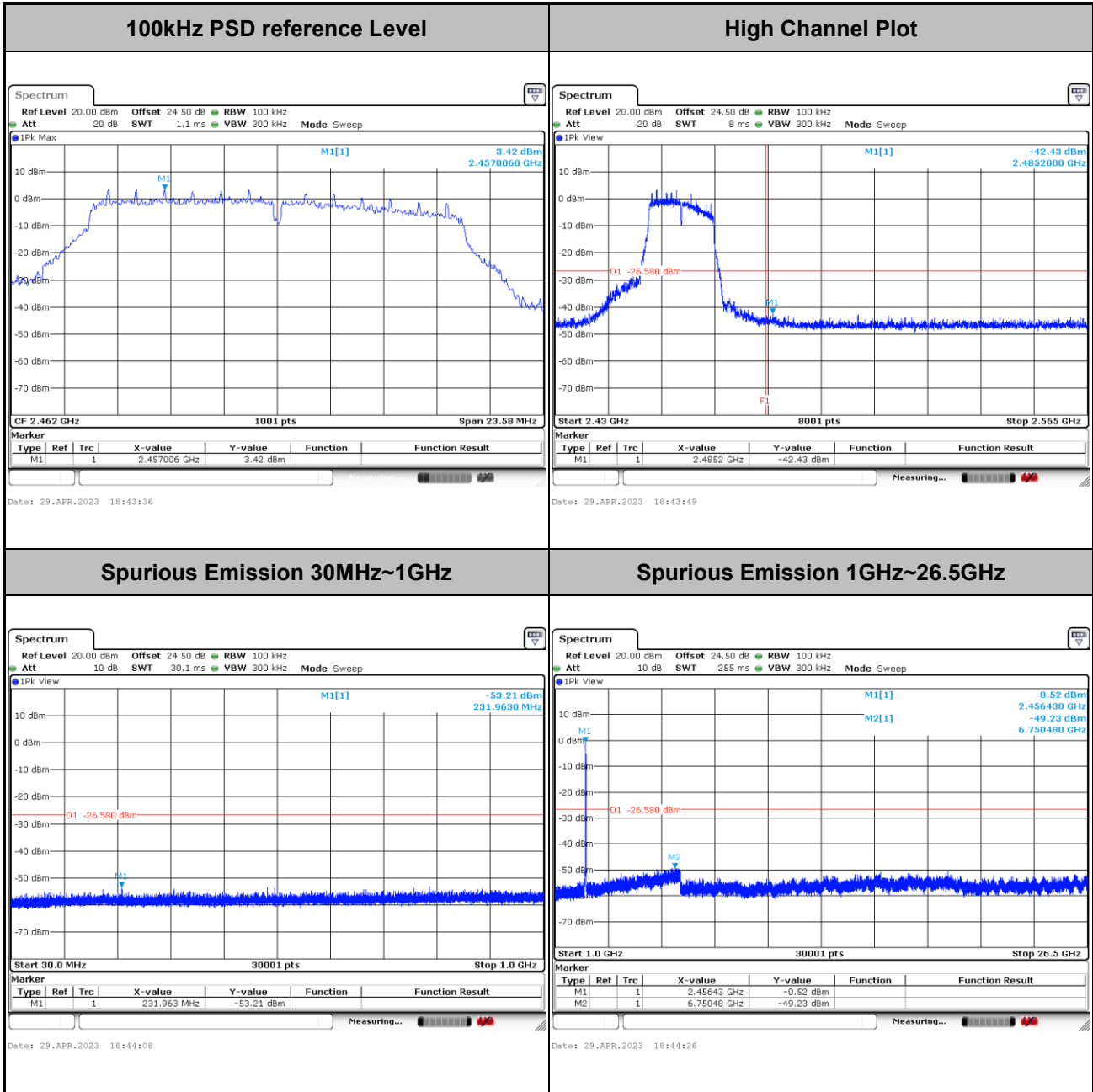


Test Mode :	802.11g	Test Channel :	06
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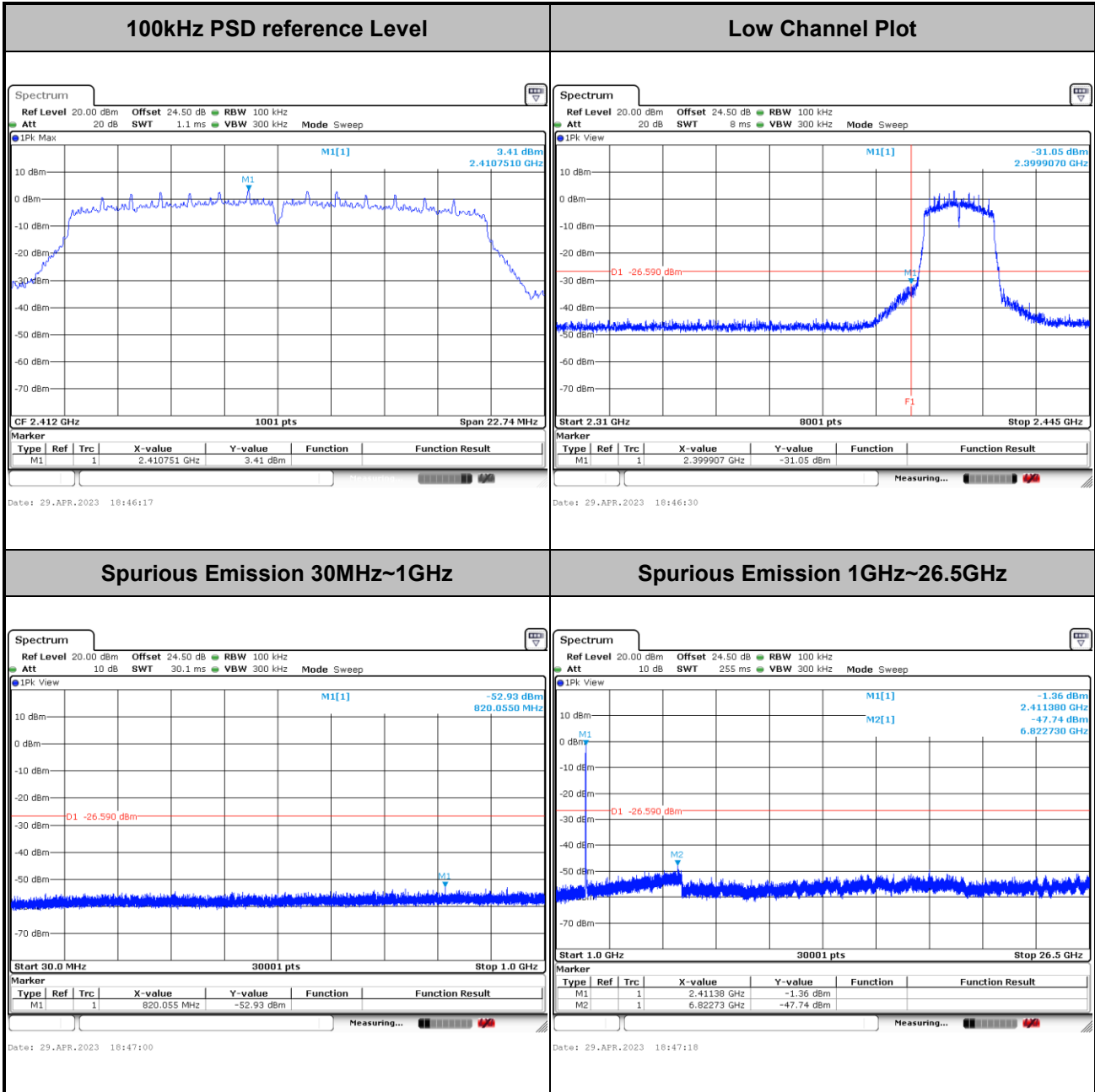


Test Mode :	802.11g	Test Channel :	11
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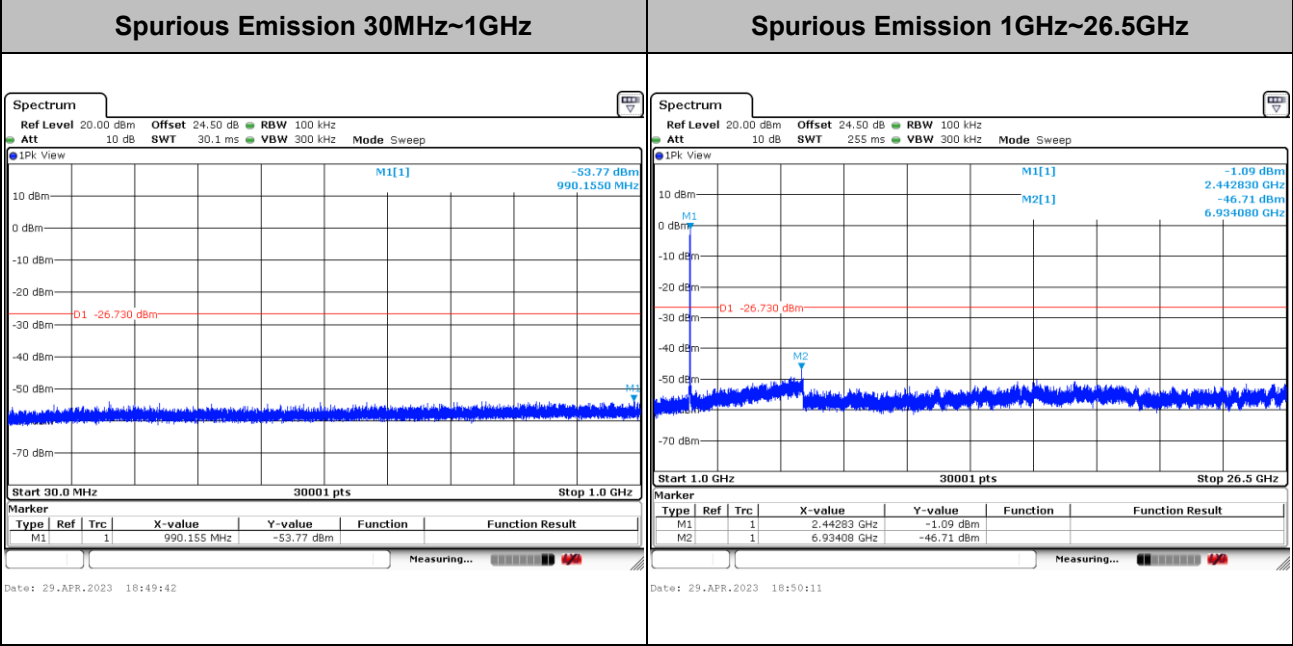
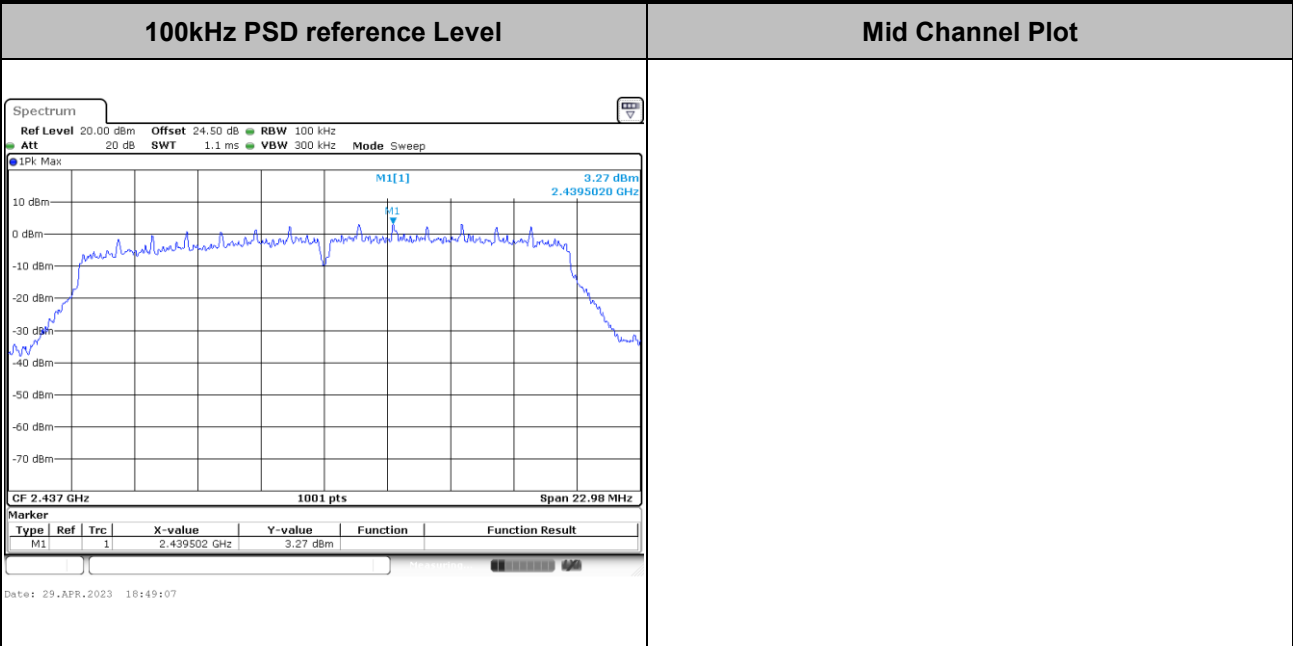


Test Mode :	802.11n HT20	Test Channel :	01
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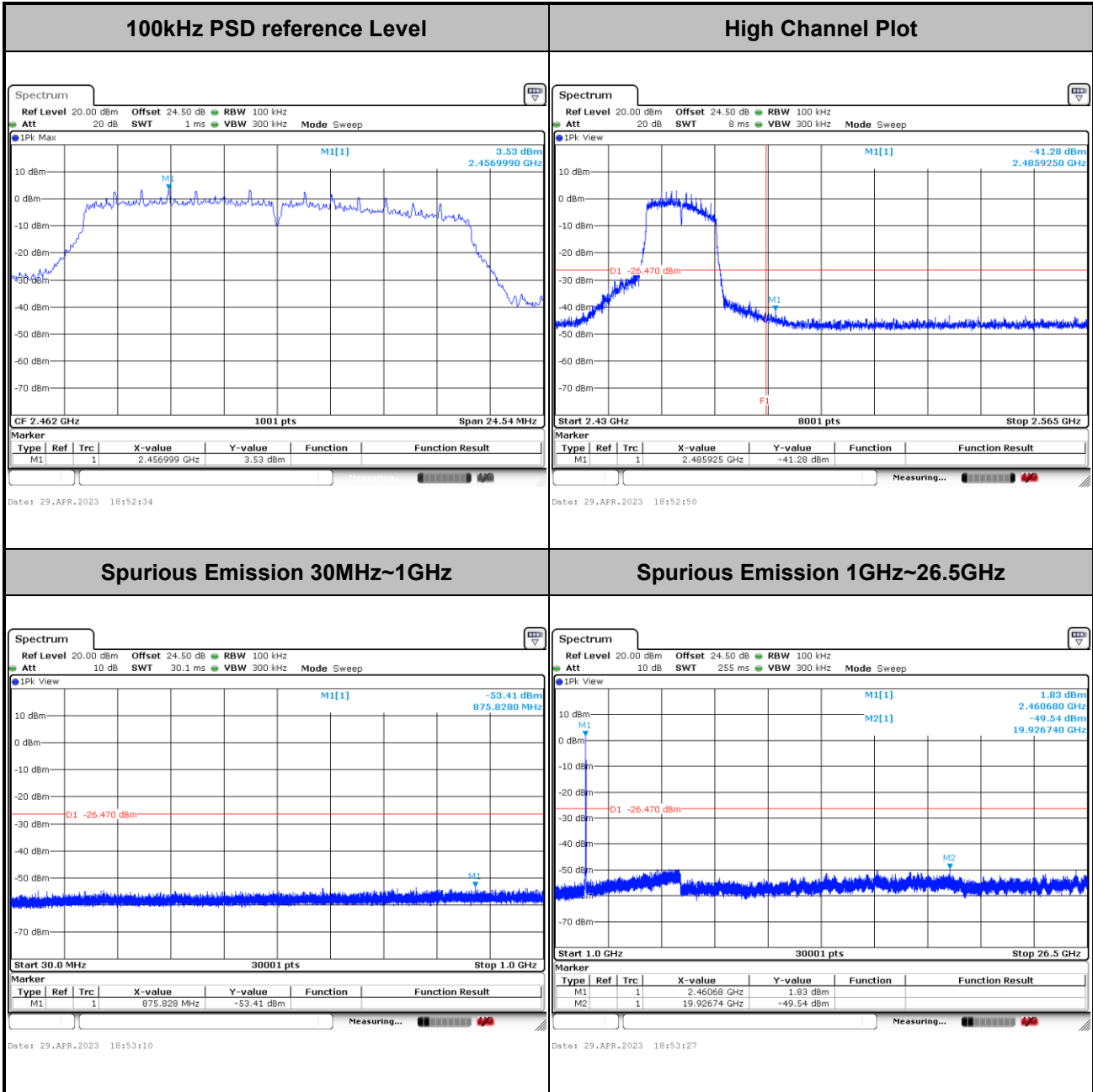


Test Mode :	802.11n HT20	Test Channel :	06
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Test Mode :	802.11n HT20	Test Channel :	11
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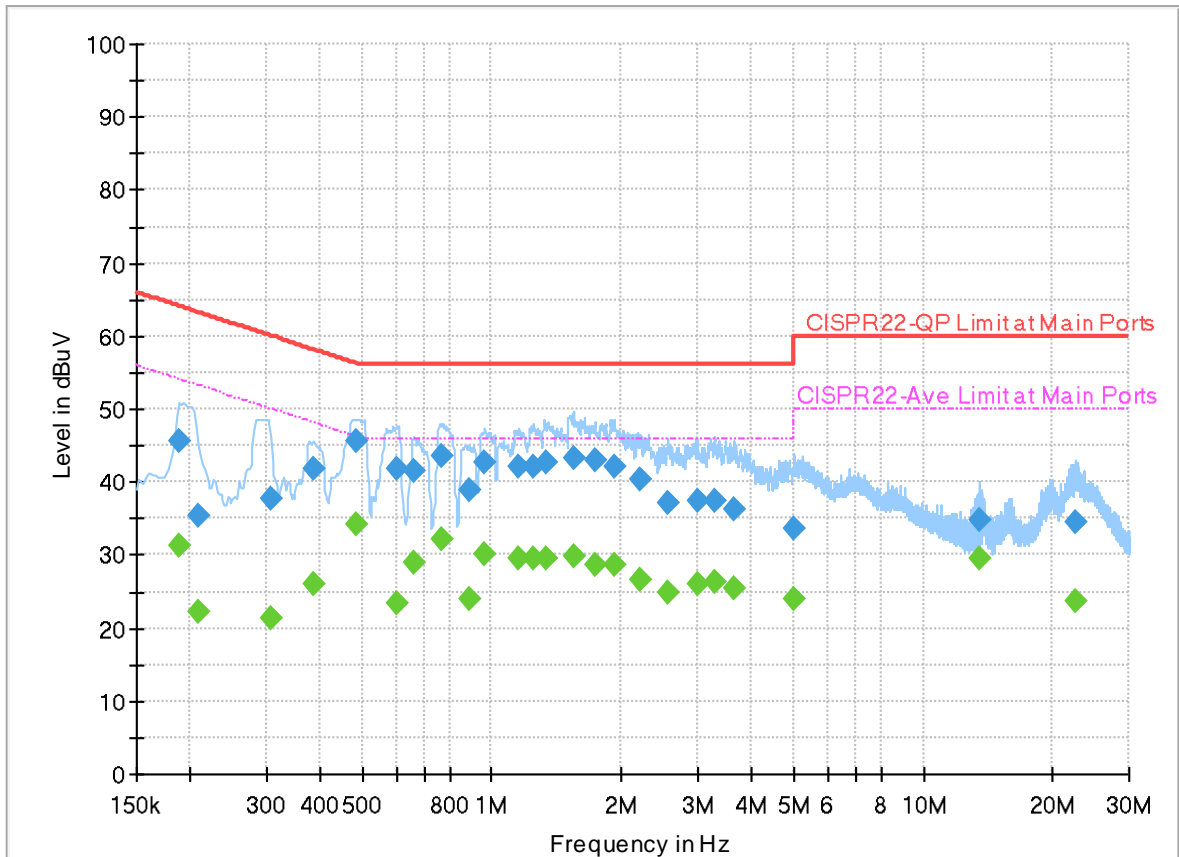
## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	21.2~23.6°C
		Relative Humidity :	58.3~63.4%

# EUT Information

Report NO : 332001  
 Test Mode : Mode 2  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



## Final\_Result

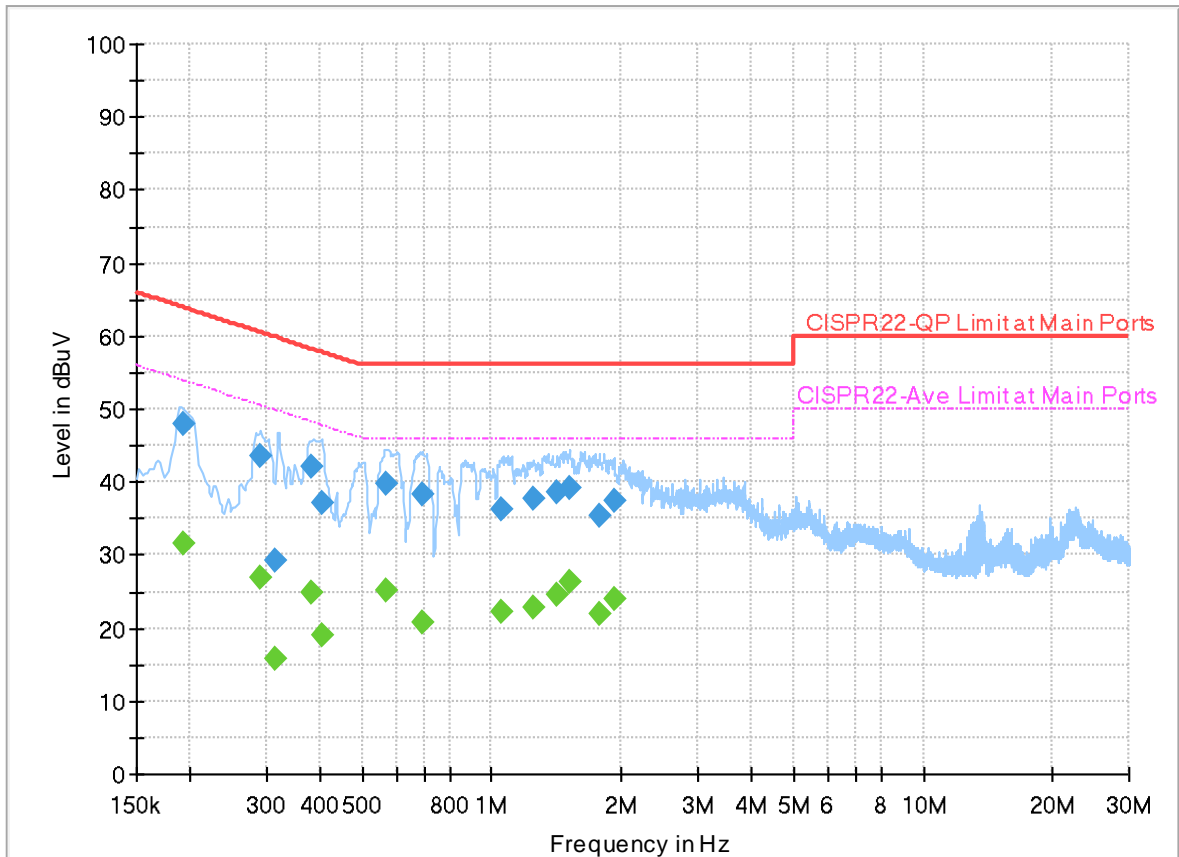
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.188430	---	31.20	54.11	22.91	L1	OFF	19.9
0.188430	45.53	---	64.11	18.58	L1	OFF	19.9
0.208500	---	22.34	53.27	30.93	L1	OFF	20.0
0.208500	35.43	---	63.27	27.84	L1	OFF	20.0
0.308310	---	21.33	50.02	28.69	L1	OFF	20.0
0.308310	37.84	---	60.02	22.18	L1	OFF	20.0
0.384360	---	26.15	48.19	22.04	L1	OFF	20.0
0.384360	41.78	---	58.19	16.41	L1	OFF	20.0
0.483630	---	34.21	46.28	12.07	L1	OFF	20.0
0.483630	45.54	---	56.28	10.74	L1	OFF	20.0
0.603870	---	23.38	46.00	22.62	L1	OFF	20.0
0.603870	41.78	---	56.00	14.22	L1	OFF	20.0
0.659760	---	28.86	46.00	17.14	L1	OFF	20.0
0.659760	41.43	---	56.00	14.57	L1	OFF	20.0
0.766500	---	32.14	46.00	13.86	L1	OFF	20.0
0.766500	43.67	---	56.00	12.33	L1	OFF	20.0
0.882870	---	24.09	46.00	21.91	L1	OFF	20.0
0.882870	38.76	---	56.00	17.24	L1	OFF	20.0
0.963690	---	30.19	46.00	15.81	L1	OFF	20.0

0.963690	42.66	---	56.00	13.34	L1	OFF	20.0
1.151250	---	29.59	46.00	16.41	L1	OFF	20.0
1.151250	42.10	---	56.00	13.90	L1	OFF	20.0
1.248000	---	29.54	46.00	16.46	L1	OFF	20.0
1.248000	42.05	---	56.00	13.95	L1	OFF	20.0
1.344750	---	29.50	46.00	16.50	L1	OFF	20.0
1.344750	42.82	---	56.00	13.18	L1	OFF	20.0
1.542120	---	29.89	46.00	16.11	L1	OFF	20.0
1.542120	43.14	---	56.00	12.86	L1	OFF	20.0
1.736340	---	28.53	46.00	17.47	L1	OFF	20.0
1.736340	43.06	---	56.00	12.94	L1	OFF	20.0
1.923450	---	28.53	46.00	17.47	L1	OFF	20.0
1.923450	42.17	---	56.00	13.83	L1	OFF	20.0
2.215500	---	26.57	46.00	19.43	L1	OFF	20.0
2.215500	40.43	---	56.00	15.57	L1	OFF	20.0
2.555250	---	24.75	46.00	21.25	L1	OFF	20.0
2.555250	37.20	---	56.00	18.80	L1	OFF	20.0
2.991750	---	26.11	46.00	19.89	L1	OFF	20.0
2.991750	37.53	---	56.00	18.47	L1	OFF	20.0
3.283980	---	26.17	46.00	19.83	L1	OFF	20.0
3.283980	37.35	---	56.00	18.65	L1	OFF	20.0
3.646500	---	25.39	46.00	20.61	L1	OFF	20.0
3.646500	36.20	---	56.00	19.80	L1	OFF	20.0
5.025660	---	23.84	50.00	26.16	L1	OFF	20.0
5.025660	33.69	---	60.00	26.31	L1	OFF	20.0
13.560000	---	29.55	50.00	20.45	L1	OFF	20.1
13.560000	34.78	---	60.00	25.22	L1	OFF	20.1
22.616250	---	23.69	50.00	26.31	L1	OFF	20.2
22.616250	34.64	---	60.00	25.36	L1	OFF	20.2

# EUT Information

Report NO : 332001  
 Test Mode : Mode 2  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

Full Spectrum



## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.192750	---	31.72	53.92	22.20	N	OFF	20.0
0.192750	47.83	---	63.92	16.09	N	OFF	20.0
0.288870	---	26.82	50.56	23.74	N	OFF	20.0
0.288870	43.67	---	60.56	16.89	N	OFF	20.0
0.314250	---	15.90	49.86	33.96	N	OFF	20.0
0.314250	29.22	---	59.86	30.64	N	OFF	20.0
0.384000	---	24.83	48.19	23.36	N	OFF	20.0
0.384000	42.12	---	58.19	16.07	N	OFF	20.0
0.406500	---	18.88	47.72	28.84	N	OFF	20.0
0.406500	37.20	---	57.72	20.52	N	OFF	20.0
0.569130	---	25.29	46.00	20.71	N	OFF	20.0
0.569130	39.71	---	56.00	16.29	N	OFF	20.0
0.690270	---	20.90	46.00	25.10	N	OFF	20.0
0.690270	38.34	---	56.00	17.66	N	OFF	20.0
1.054500	---	22.08	46.00	23.92	N	OFF	20.0
1.054500	36.13	---	56.00	19.87	N	OFF	20.0
1.254120	---	22.72	46.00	23.28	N	OFF	20.0
1.254120	37.71	---	56.00	18.29	N	OFF	20.0
1.414050	---	24.68	46.00	21.32	N	OFF	20.0

1.414050	38.54	---	56.00	17.46	N	OFF	20.0
1.513500	---	26.24	46.00	19.76	N	OFF	20.0
1.513500	39.08	---	56.00	16.92	N	OFF	20.0
1.781250	---	21.91	46.00	24.09	N	OFF	20.0
1.781250	35.49	---	56.00	20.51	N	OFF	20.0
1.921200	---	23.85	46.00	22.15	N	OFF	20.0
1.921200	37.29	---	56.00	18.71	N	OFF	20.0



## Appendix C. Radiated Spurious Emission

<b>Test Engineer :</b>	Leo Li and Shiming Liu	<b>Temperature :</b>	18.3~24.5°C
		<b>Relative Humidity :</b>	42.3~65.5%



**2.4GHz 2400~2483.5MHz**

**WIFI 802.11b (Band Edge @ 3m)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )	
<b>802.11b CH 01 2412MHz</b>		2328.48	51.28	-22.72	74	37.21	27.1	18.75	31.78	187	137	P	H	
		2389.905	40.35	-13.65	54	26.2	27.1	18.87	31.82	187	137	A	H	
	*	2412	97.25	-	-	83.1	27.08	18.91	31.84	187	137	P	H	
	*	2412	94.22	-	-	80.07	27.08	18.91	31.84	187	137	A	H	
													H	
													H	
			2382.555	51.6	-22.4	74	37.46	27.1	18.86	31.82	400	125	P	V
			2387.91	40.36	-13.64	54	26.21	27.1	18.87	31.82	400	125	A	V
	*		2412	95.61	-	-	81.46	27.08	18.91	31.84	400	125	P	V
	*		2412	92.62	-	-	78.47	27.08	18.91	31.84	400	125	A	V
													V	
													V	
<b>802.11b CH 06 2437MHz</b>		2340.56	51.19	-22.81	74	37.11	27.1	18.77	31.79	100	205	P	H	
		2389.84	40.44	-13.56	54	26.29	27.1	18.87	31.82	100	205	A	H	
	*	2437	106	-	-	91.88	27.03	18.95	31.86	100	205	P	H	
	*	2437	103.02	-	-	88.9	27.03	18.95	31.86	100	205	A	H	
			2485.44	52.71	-21.29	74	38.7	26.86	19.04	31.89	100	205	P	H
			2486.16	41.78	-12.22	54	27.77	26.86	19.04	31.89	100	205	A	H
			2387.76	52.7	-21.3	74	38.55	27.1	18.87	31.82	302	21	P	V
			2387.76	40.27	-13.73	54	26.12	27.1	18.87	31.82	302	21	A	V
	*		2437	101.78	-	-	87.66	27.03	18.95	31.86	302	21	P	V
	*		2437	98.83	-	-	84.71	27.03	18.95	31.86	302	21	A	V
			2495.2	52.47	-21.53	74	38.49	26.82	19.06	31.9	302	21	P	V
			2486	41.01	-12.99	54	27	26.86	19.04	31.89	302	21	A	V



<b>802.11b</b> <b>CH 11</b> <b>2462MHz</b>	*	2462	104.89	-	-	90.81	26.95	19	31.87	298	208	P	H
	*	2462	101.85	-	-	87.76	26.96	19	31.87	298	208	A	H
		2484.8	52.2	-21.8	74	38.19	26.86	19.04	31.89	298	208	P	H
		2487.12	41.82	-12.18	54	27.82	26.85	19.04	31.89	298	208	A	H
													H
													H
	*	2462	100.88	-	-	86.8	26.95	19	31.87	298	21	P	V
	*	2462	97.82	-	-	83.73	26.96	19	31.87	298	21	A	V
		2487.6	51.79	-22.21	74	37.79	26.85	19.04	31.89	298	21	P	V
		2486.88	41.02	-12.98	54	27.02	26.85	19.04	31.89	298	21	A	V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11b CH 01 2412MHz		4824	54.07	-19.93	74	41.5	32.65	12.96	33.04	101	188	P	H	
		4824	50.19	-3.81	54	37.62	32.65	12.96	33.04	101	188	A	H	
													H	
													H	
													H	
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													H	
													H	
													H	
													H	
													H	
													H	
			4824	51.19	-22.81	74	38.62	32.65	12.96	33.04	400	249	P	V
			4824	45.56	-8.44	54	32.99	32.65	12.96	33.04	400	249	A	V
													V	
													V	
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													V	
													V	



WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11b CH 06 2437MHz		4874	53.95	-20.05	74	41.21	32.75	13.02	33.03	101	188	P	H	
		4874	50.82	-3.18	54	38.08	32.75	13.02	33.03	101	188	A	H	
		7311	48.68	-25.32	74	30.97	37.42	15.89	35.6	100	185	P	H	
		7311	38.6	-15.4	54	20.89	37.42	15.89	35.6	100	185	A	H	
													H	
														H
														H
														H
														H
														H
														H
														H
														H
														H
														H
														H
														H
			4874	49.32	-24.68	74	36.58	32.75	13.02	33.03	395	258	P	V
			4874	44.85	-9.15	54	32.11	32.75	13.02	33.03	395	258	A	V
			7311	49.19	-24.81	74	31.48	37.42	15.89	35.6	390	255	P	V
		7311	38.62	-15.38	54	20.91	37.42	15.89	35.6	390	255	A	V	
													V	
													V	
													V	
													V	
													V	
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													V	
													V	



WIFI Ant.	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11b CH 11 2462MHz		4924	52.03	-21.97	74	39.18	32.8	13.07	33.02	100	187	P	H	
		4924	48.78	-5.22	54	35.93	32.8	13.07	33.02	100	187	A	H	
		7386	47.9	-26.1	74	30.33	37.28	15.96	35.67	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			4924	46.08	-27.92	74	33.23	32.8	13.07	33.02	-	-	P	V
			7386	47.86	-26.14	74	30.29	37.28	15.96	35.67	-	-	P	V
														V
														V
														V
														V
														V
														V
														V
<b>Remark</b>	<ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> </ol>													



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11g CH 01 2412MHz		2389.485	52.73	-21.27	74	38.58	27.1	18.87	31.82	100	198	P	H	
		2390	42.7	-11.3	54	28.55	27.1	18.87	31.82	100	198	A	H	
	*	2412	106.92	-	-	92.77	27.08	18.91	31.84	100	198	P	H	
	*	2412	99.32	-	-	85.17	27.08	18.91	31.84	100	198	A	H	
													H	
														H
			2379.51	51.51	-22.49	74	37.38	27.1	18.85	31.82	242	4	P	V
			2389.905	41.8	-12.2	54	27.65	27.1	18.87	31.82	242	4	A	V
	*		2412	104.21	-	-	90.06	27.08	18.91	31.84	242	4	P	V
	*		2412	96.52	-	-	82.37	27.08	18.91	31.84	242	4	A	V
														V
														V
802.11g CH 06 2437MHz		2365.52	51.34	-22.66	74	37.23	27.1	18.82	31.81	100	206	P	H	
		2388.88	41.45	-12.55	54	27.3	27.1	18.87	31.82	100	206	A	H	
	*	2437	107.58	-	-	93.46	27.03	18.95	31.86	100	206	P	H	
	*	2437	99.76	-	-	85.64	27.03	18.95	31.86	100	206	A	H	
			2487.12	54.5	-19.5	74	40.5	26.85	19.04	31.89	100	206	P	H
			2486.4	44.85	-9.15	54	30.85	26.85	19.04	31.89	100	206	A	H
			2343.28	51.79	-22.21	74	37.7	27.1	18.78	31.79	302	21	P	V
			2383.6	41.16	-12.84	54	27.02	27.1	18.86	31.82	302	21	A	V
	*		2437	103.27	-	-	89.15	27.03	18.95	31.86	302	21	P	V
	*		2437	95.52	-	-	81.4	27.03	18.95	31.86	302	21	A	V
			2483.6	52.39	-21.61	74	38.37	26.87	19.04	31.89	302	21	P	V
			2485.68	43.19	-10.81	54	29.18	26.86	19.04	31.89	302	21	A	V



<b>802.11g</b> <b>CH 11</b> <b>2462MHz</b>	*	2462	107.68	-	-	93.6	26.95	19	31.87	100	209	P	H
	*	2462	99.91	-	-	85.83	26.95	19	31.87	100	209	A	H
		2484.72	66.53	-7.47	74	52.52	26.86	19.04	31.89	100	209	P	H
		2484.52	49.08	-4.92	54	35.07	26.86	19.04	31.89	100	209	A	H
													H
													H
	*	2462	103.94	-	-	89.86	26.95	19	31.87	300	21	P	V
	*	2462	96.21	-	-	82.13	26.95	19	31.87	300	21	A	V
		2484.68	63.22	-10.78	74	49.21	26.86	19.04	31.89	300	21	P	V
		2484.76	46.38	-7.62	54	32.37	26.86	19.04	31.89	300	21	A	V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	45.85	-28.15	74	33.28	32.65	12.96	33.04	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			4824	45.49	-28.51	74	32.92	32.65	12.96	33.04	-	-	P
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
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													V
													V



WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 06 2437MHz		4874	48.31	-25.69	74	35.57	32.75	13.02	33.03	112	188	P	H	
		4874	38.76	-15.24	54	26.02	32.75	13.02	33.03	112	188	A	H	
		7311	49.11	-24.89	74	31.4	37.42	15.89	35.6	105	179	P	H	
		7311	39.4	-14.6	54	21.69	37.42	15.89	35.6	105	179	A	H	
													H	
														H
														H
														H
														H
														H
														H
														H
														H
														H
														H
														H
														H
			4874	45.16	-28.84	74	32.42	32.75	13.02	33.03	-	-	P	V
			7311	48.87	-25.13	74	31.16	37.42	15.89	35.6	400	291	P	V
			7311	39.5	-14.5	54	21.79	37.42	15.89	35.6	400	291	A	V
													V	
													V	
													V	
													V	
													V	
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													V	
													V	
													V	



WIFI Ant.	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11g CH 11 2462MHz		4924	45.66	-28.34	74	32.81	32.8	13.07	33.02	-	-	P	H
		7386	47.85	-26.15	74	30.28	37.28	15.96	35.67	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
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													H
													H
													H
													H
			4924	44.53	-29.47	74	31.68	32.8	13.07	33.02	-	-	P
		7386	47.54	-26.46	74	29.97	37.28	15.96	35.67	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
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													V
<b>Remark</b>	<ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> </ol>												





2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT20 CH 01 2412MHz		2389.905	56.68	-17.32	74	42.53	27.1	18.87	31.82	100	200	P	H	
		2390	43.3	-10.7	54	29.15	27.1	18.87	31.82	100	200	A	H	
	*	2412	106.85	-	-	92.7	27.08	18.91	31.84	100	200	P	H	
	*	2412	99.18	-	-	85.03	27.08	18.91	31.84	100	200	A	H	
													H	
														H
			2388.96	52.23	-21.77	74	38.08	27.1	18.87	31.82	242	4	P	V
			2389.905	42.01	-11.99	54	27.86	27.1	18.87	31.82	242	4	A	V
		*	2412	103.91	-	-	89.76	27.08	18.91	31.84	242	4	P	V
		*	2412	96.08	-	-	81.93	27.08	18.91	31.84	242	4	A	V
													V	
													V	
802.11n HT20 CH 06 2437MHz		2388.72	51.07	-22.93	74	36.92	27.1	18.87	31.82	100	208	P	H	
		2390	41.42	-12.58	54	27.27	27.1	18.87	31.82	100	208	A	H	
	*	2437	106.84	-	-	92.72	27.03	18.95	31.86	100	208	P	H	
	*	2437	99.07	-	-	84.95	27.03	18.95	31.86	100	208	A	H	
			2487.28	55.51	-18.49	74	41.51	26.85	19.04	31.89	100	208	P	H
			2486	44.95	-9.05	54	30.94	26.86	19.04	31.89	100	208	A	H
			2371.28	51.62	-22.38	74	37.5	27.1	18.83	31.81	298	22	P	V
			2355.6	41.05	-12.95	54	26.95	27.1	18.8	31.8	298	22	A	V
		*	2437	103.6	-	-	89.48	27.03	18.95	31.86	298	22	P	V
		*	2437	94.42	-	-	80.3	27.03	18.95	31.86	298	22	A	V
		2486	52.81	-21.19	74	38.8	26.86	19.04	31.89	298	22	P	V	
		2485.92	43.32	-10.68	54	29.31	26.86	19.04	31.89	298	22	A	V	



<b>802.11n</b> <b>HT20</b> <b>CH 11</b> <b>2462MHz</b>	*	2462	107.64	-	-	93.56	26.95	19	31.87	100	207	P	H
	*	2462	99.83	-	-	85.75	26.95	19	31.87	100	207	A	H
		2483.6	65.22	-8.78	74	51.2	26.87	19.04	31.89	100	207	P	H
		2483.56	47.78	-6.22	54	33.76	26.87	19.04	31.89	100	207	A	H
													H
													H
	*	2462	103.64	-	-	89.56	26.95	19	31.87	298	21	P	V
	*	2462	95.88	-	-	81.8	26.95	19	31.87	298	21	A	V
		2483.68	61.56	-12.44	74	47.54	26.87	19.04	31.89	298	21	P	V
		2484.64	45.21	-8.79	54	31.2	26.86	19.04	31.89	298	21	A	V
												V	
												V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT20 CH 01 2412MHz		4824	46.52	-27.48	74	33.95	32.65	12.96	33.04	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			4824	44.97	-29.03	74	32.4	32.65	12.96	33.04	-	-	P
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
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WIFI Ant.	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 06 2437MHz		4874	45.05	-28.95	74	32.31	32.75	13.02	33.03	-	-	P	H
		7311	48.75	-25.25	74	31.04	37.42	15.89	35.6	100	284	P	H
		7311	39.27	-14.73	54	21.56	37.42	15.89	35.6	100	284	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			4874	44.74	-29.26	74	32	32.75	13.02	33.03	-	-	P
		7311	50.36	-23.64	74	32.65	37.42	15.89	35.6	100	359	P	V
		7311	39.35	-14.65	54	21.64	37.42	15.89	35.6	100	359	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant.	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT20 CH 11 2462MHz		4924	45.13	-28.87	74	32.28	32.8	13.07	33.02	-	-	P	H
		7386	47.89	-26.11	74	30.32	37.28	15.96	35.67	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
	802.11n HT20 CH 11 2462MHz		4924	44.91	-29.09	74	32.06	32.8	13.07	33.02	-	-	P
		7386	47.14	-26.86	74	29.57	37.28	15.96	35.67	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark		1. No other spurious found.											
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



2.4GHz 2400~2483.5MHz

Emission above 18GHz

2.4GHz WIFI 802.11b (SHF)

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
2.4GHz 802.11b SHF		23887	42.03	-31.97	74	43.36	39.12	19.45	59.9	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			21542	42.59	-31.41	74	47.34	38.4	17.87	61.02	-	-	P
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Emission below 1GHz

2.4GHz WIFI 802.11b (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )	
2.4GHz 802.11b LF		73.65	25.6	-14.4	40	44.28	12.4	1.62	32.7	-	-	P	H	
		98.87	30.34	-13.16	43.5	45.34	15.79	1.88	32.67	-	-	P	H	
		204.6	24.77	-18.73	43.5	39.69	15	2.78	32.7	-	-	P	H	
		256.98	26.72	-19.28	46	36.98	19.46	3.03	32.75	-	-	P	H	
		385.02	28.59	-17.41	46	36.6	21.2	3.63	32.84	-	-	P	H	
		514.03	29.2	-16.8	46	33.99	24	4.16	32.95	-	-	P	H	
														H
														H
														H
														H
														H
														H
			31.94	29.85	-10.15	40	37.56	24.02	1.02	32.75	-	-	P	V
			72.68	29.31	-10.69	40	47.97	12.43	1.61	32.7	-	-	P	V
			95.96	29.23	-14.27	43.5	44.46	15.59	1.85	32.67	-	-	P	V
			128.94	30.99	-12.51	43.5	44.07	17.5	2.1	32.68	-	-	P	V
			170.65	23.01	-20.49	43.5	37.67	15.5	2.53	32.69	-	-	P	V
			950.53	35.75	-10.25	46	30.45	31.11	5.69	31.5	-	-	P	V
														V
														V
													V	
													V	
													V	

**Remark**

- No other spurious found.
- All results are PASS against limit line.
- The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.



**Note symbol**

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





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

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

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. Over Limit(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. Over Limit(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. Over Limit(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

Test Engineer :	Leo Li and Shiming Liu	Temperature :	18.3~24.5°C
		Relative Humidity :	42.3~65.5%

### Note symbol

-L	Low channel location
-R	High channel location

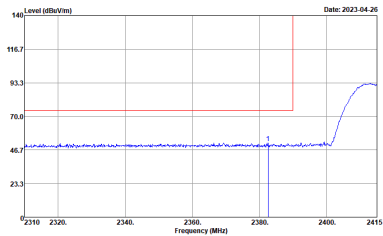
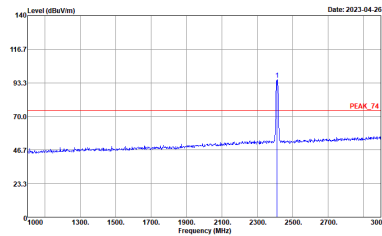
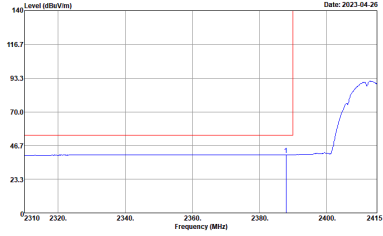
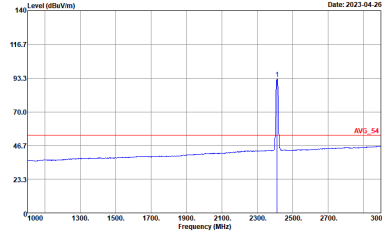


2.4GHz 2400~2483.5MHz

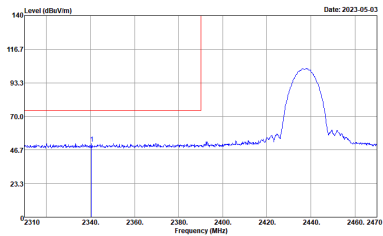
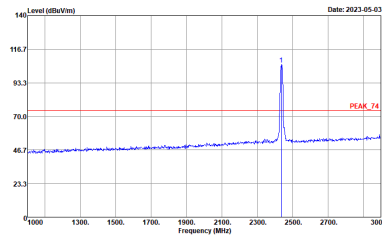
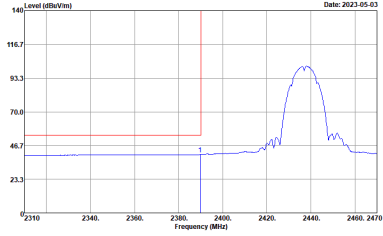
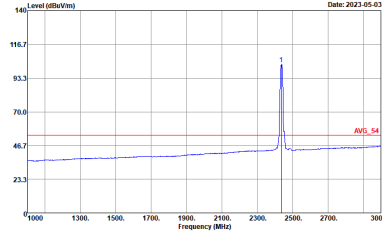
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
	Horizontal	Fundamental
Peak	<p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18ENL_230705 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18ENL_230705 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Site : 03CH23-HY Condition : AV6_BE_54 3m LEZ005A18ENL_230705 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	<p>Site : 03CH23-HY Condition : AV6_54 3m LEZ005A18ENL_230705 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
	Vertical	Fundamental
Peak	 <p>Level (dBm/1m) vs Frequency (MHz) plot for Vertical Peak. The y-axis ranges from 0 to 140 dBm/1m, and the x-axis ranges from 2310 to 2415 MHz. A red line indicates a peak level of approximately 116.7 dBm/1m at 2412 MHz. The plot shows a blue signal line with a sharp peak at the channel center.</p> <p>Site : 03CH23-HY            Condition : PEAK_BE_74 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/1m) vs Frequency (MHz) plot for Fundamental Peak. The y-axis ranges from 0 to 140 dBm/1m, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates a peak level of approximately 93.3 dBm/1m at 2412 MHz. The plot shows a blue signal line with a sharp peak at the channel center.</p> <p>Site : 03CH23-HY            Condition : PEAK_74 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBm/1m) vs Frequency (MHz) plot for Vertical Avg. The y-axis ranges from 0 to 140 dBm/1m, and the x-axis ranges from 2310 to 2415 MHz. A red line indicates an average level of approximately 70.0 dBm/1m at 2412 MHz. The plot shows a blue signal line with a broad peak at the channel center.</p> <p>Site : 03CH23-HY            Condition : AV6_BE_54 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Level (dBm/1m) vs Frequency (MHz) plot for Fundamental Avg. The y-axis ranges from 0 to 140 dBm/1m, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates an average level of approximately 46.7 dBm/1m at 2412 MHz. The plot shows a blue signal line with a broad peak at the channel center.</p> <p>Site : 03CH23-HY            Condition : AV6_54 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

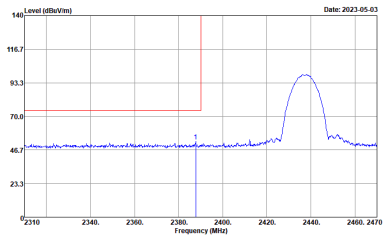
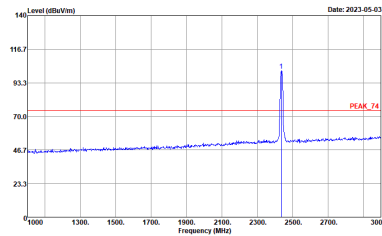
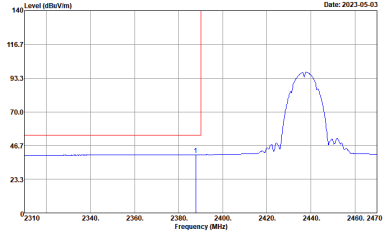
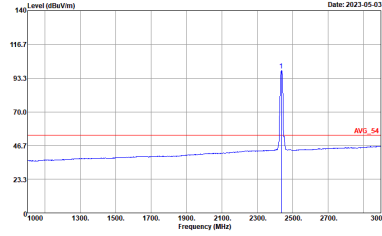


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
	Horizontal	Fundamental
Peak	 <p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18ENL_230705 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18ENL_230705 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH23-HY Condition : AV6_BE_54 3m LEZ005A18ENL_230705 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : AV6_54 3m LEZ005A18ENL_230705 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

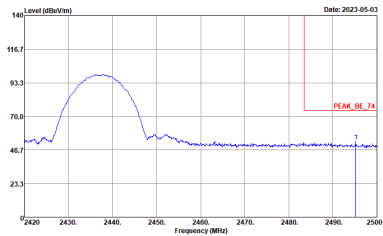
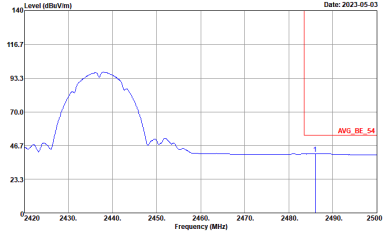


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
	Horizontal	Fundamental
Peak	<p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LE2C05A18EN_230705 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH23-HY Condition : AVG_BE_54 3m LE2C05A18EN_230705 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	Left blank



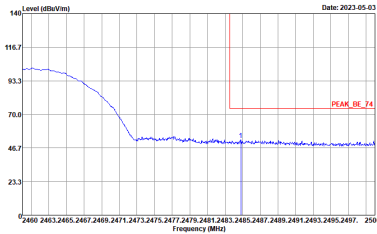
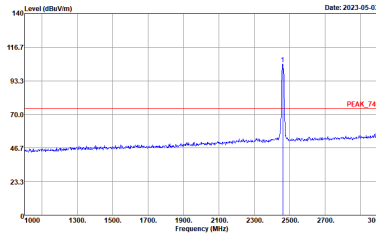
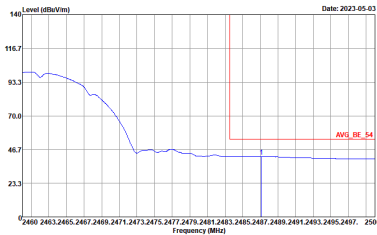
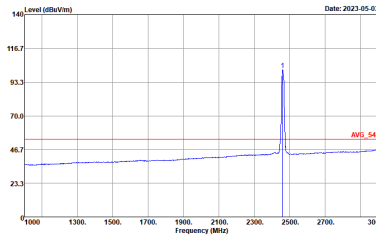
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
	Vertical	Fundamental
Peak	 <p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18ENL_230705 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18ENL_230705 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH23-HY Condition : AV6_BE_54 3m LEZ005A18ENL_230705 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : AV6_54 3m LEZ005A18ENL_230705 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



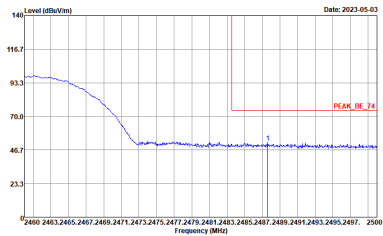
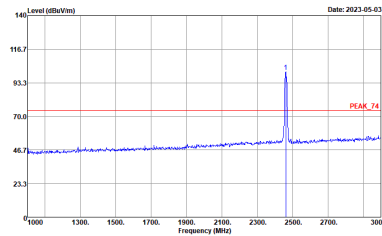
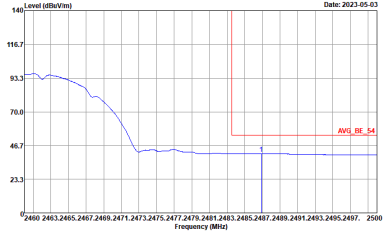
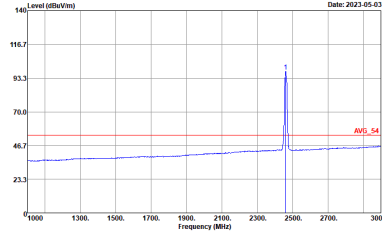
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LE2C05A18EN_230705 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH23-HY Condition : AVG_BE_54 3m LE2C05A18EN_230705 VERTICAL : RBW:1000.000kHz VBW:0.0100kHz SWT:Auto</p>	<p>Left blank</p>





WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
	Horizontal	Fundamental
Peak	 <p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230705 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18EN_230705 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH23-HY Condition : AV6_BE_54 3m LEZ005A18EN_230705 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : AV6_54 3m LEZ005A18EN_230705 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



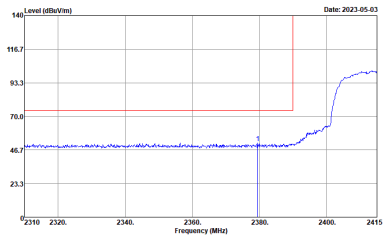
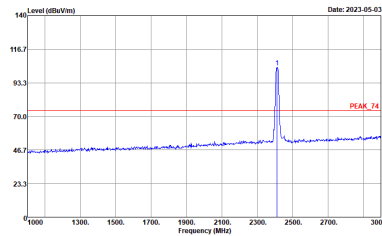
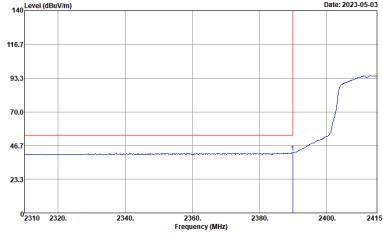
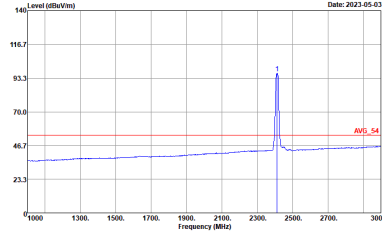
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
	Vertical	Fundamental
Peak	 <p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH23-HY Condition : AV6_BE_54 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : AV6_54 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



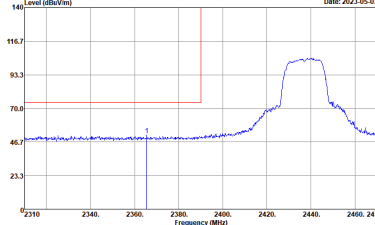
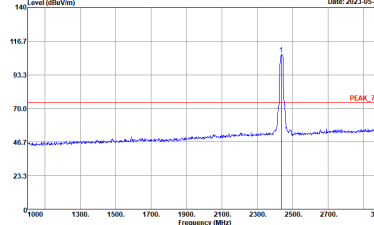
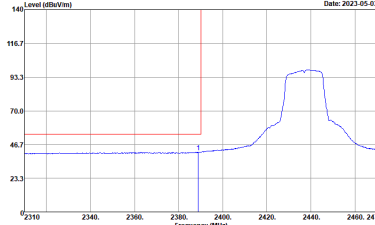
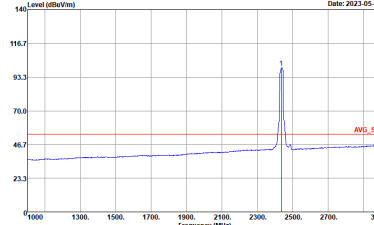
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

Table with 2 columns (WIFI, ANT) and 2 rows (Peak, Avg.). Each cell contains a graph (Horizontal or Fundamental) showing Level (dBuV/m) vs Frequency (MHz) with specific test conditions and site information.

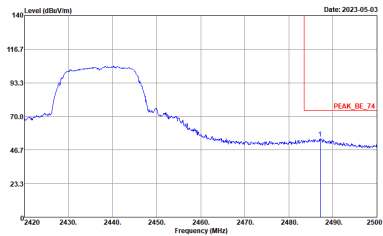
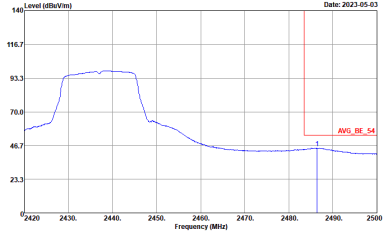


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
	Vertical	Fundamental
<p style="text-align: center;"><b>Peak</b></p>	 <p>Level (dBm/1m) vs Frequency (MHz) plot for Vertical Peak. The y-axis ranges from 0 to 140 dBm/1m, and the x-axis ranges from 2310 to 2415 MHz. A sharp peak is visible at approximately 2412 MHz. A red box highlights the peak area.</p> <p>Site : 03CH23-HY            Condition : PEAK_BE_74 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/1m) vs Frequency (MHz) plot for Fundamental Peak. The y-axis ranges from 0 to 140 dBm/1m, and the x-axis ranges from 1000 to 3000 MHz. A sharp peak is visible at approximately 2412 MHz, labeled 'PEAK_74'.</p> <p>Site : 03CH23-HY            Condition : PEAK_74 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
<p style="text-align: center;"><b>Avg.</b></p>	 <p>Level (dBm/1m) vs Frequency (MHz) plot for Vertical Avg. The y-axis ranges from 0 to 140 dBm/1m, and the x-axis ranges from 2310 to 2415 MHz. A broad peak is visible at approximately 2412 MHz.</p> <p>Site : 03CH23-HY            Condition : AV6_BE_54 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Level (dBm/1m) vs Frequency (MHz) plot for Fundamental Avg. The y-axis ranges from 0 to 140 dBm/1m, and the x-axis ranges from 1000 to 3000 MHz. A broad peak is visible at approximately 2412 MHz, labeled 'AVG_54'.</p> <p>Site : 03CH23-HY            Condition : AV6_54 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>

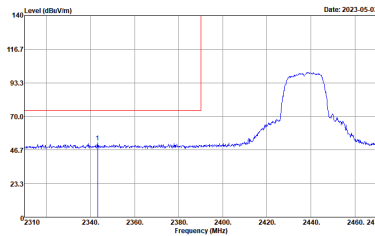
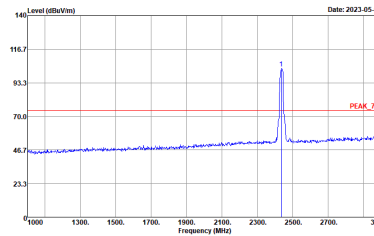
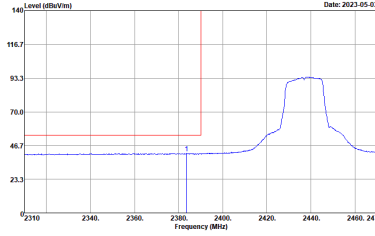
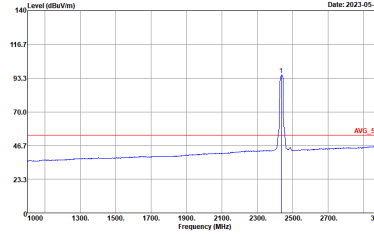


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
	Horizontal	Fundamental
Peak	 <p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230705 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18EN_230705 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH23-HY Condition : AV6_BE_54 3m LEZ005A18EN_230705 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : AV6_54 3m LEZ005A18EN_230705 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>

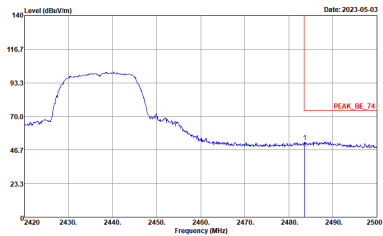
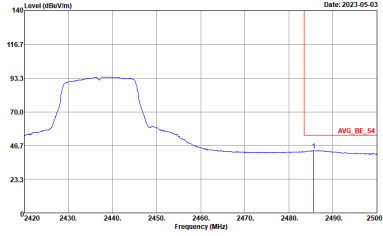


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH23-HY            Condition : PEAK_BE_74 3m LE2C05A18EN_230705 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH23-HY            Condition : AVG_BE_54 3m LE2C05A18EN_230705 HORIZONTAL            : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p>Left blank</p>



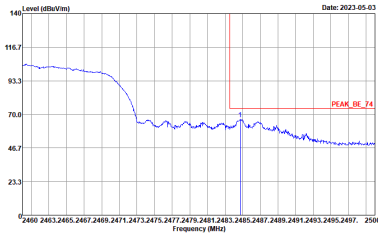
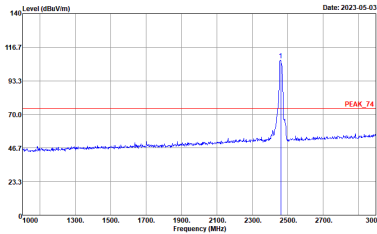
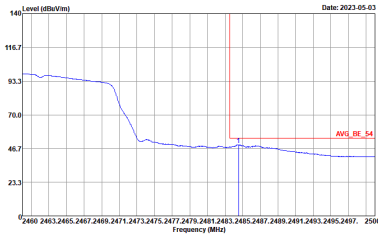
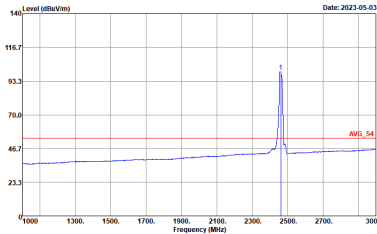
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
	Vertical	Fundamental
Peak	 <p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH23-HY Condition : AV6_BE_54 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : AV6_54 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>



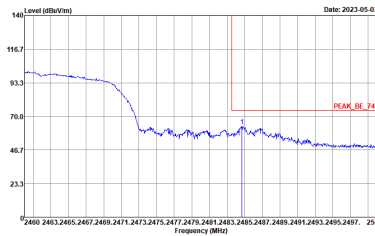
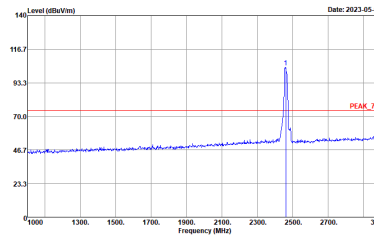
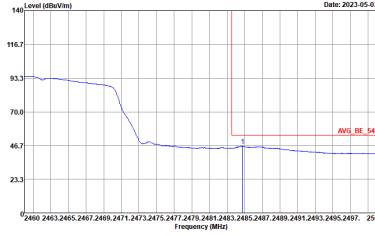
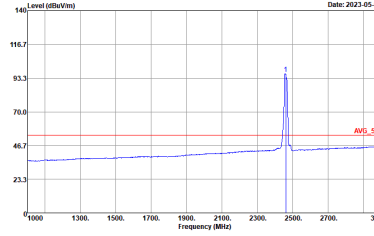
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LE2C05A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left Blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH23-HY Condition : AVG_BE_54 3m LE2C05A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	<p>Left Blank</p>





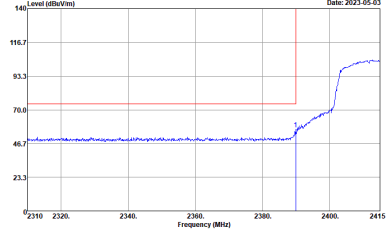
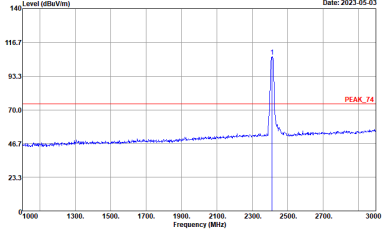
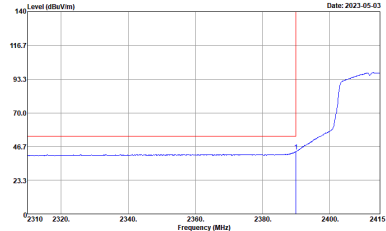
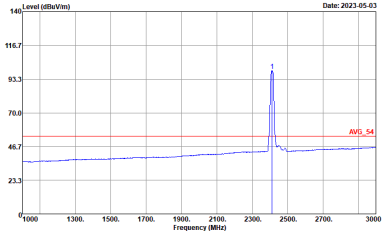
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
	Horizontal	Fundamental
Peak	 <p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230705 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18EN_230705 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH23-HY Condition : AVG_BE_54 3m LEZ005A18EN_230705 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : AVG_54 3m LEZ005A18EN_230705 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>



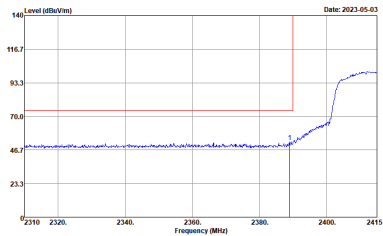
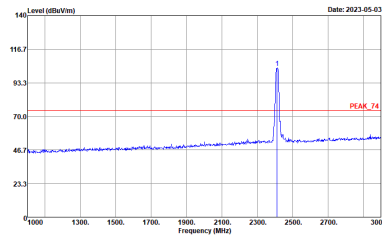
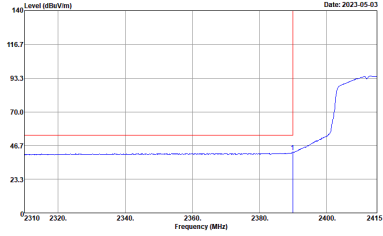
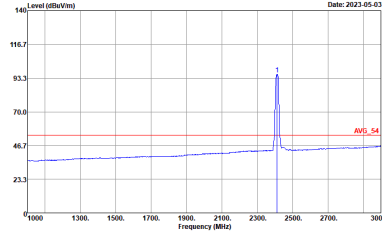
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
	Vertical	Fundamental
Peak	 <p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH23-HY Condition : AV6_BE_54 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : AV6_54 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>



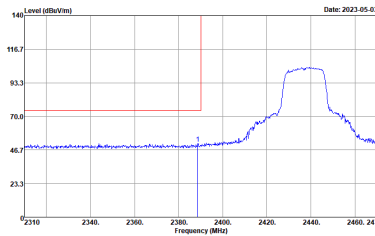
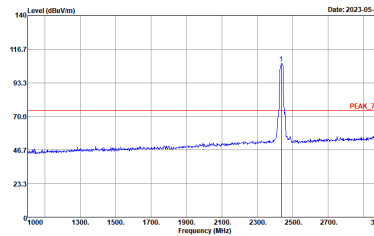
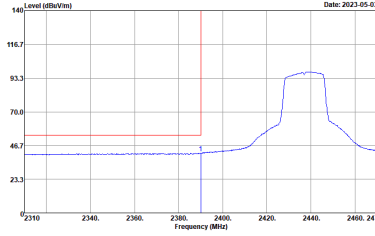
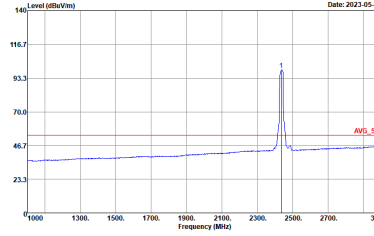
**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
	Horizontal	Fundamental
<b>Peak</b>	 <p>Site : 03CH23-HY            Condition : PEAK_BE_74 3m LE2005A18EN_230705 HORIZONTAL            : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY            Condition : PEAK_74 3m LE2005A18EN_230705 HORIZONTAL            : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto</p>
<b>Avg.</b>	 <p>Site : 03CH23-HY            Condition : AVG_BE_54 3m LE2005A18EN_230705 HORIZONTAL            : RBW:1000.000KHz VSW:1000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY            Condition : AVG_54 3m LE2005A18EN_230705 HORIZONTAL            : RBW:1000.000KHz VSW:1000KHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
	Vertical	Fundamental
Peak	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 2412 MHz. The y-axis ranges from 0 to 140 dBm/100kHz, and the x-axis ranges from 2310 to 2415 MHz. A red horizontal line is drawn at approximately 70 dBm/100kHz.</p> <p>Site : 03CH23-HY            Condition : PEAK_BE_74 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 2412 MHz. The y-axis ranges from 0 to 140 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red horizontal line is drawn at approximately 70 dBm/100kHz. The peak is labeled 'PEAK_74'.</p> <p>Site : 03CH23-HY            Condition : PEAK_74 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 0 to 140 dBm/100kHz, and the x-axis ranges from 2310 to 2415 MHz. A red horizontal line is drawn at approximately 70 dBm/100kHz.</p> <p>Site : 03CH23-HY            Condition : AV6_BE_54 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 0 to 140 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red horizontal line is drawn at approximately 70 dBm/100kHz. The peak is labeled 'AVG_54'.</p> <p>Site : 03CH23-HY            Condition : AV6_54 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>

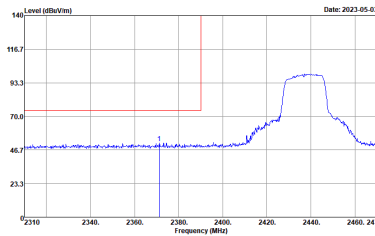
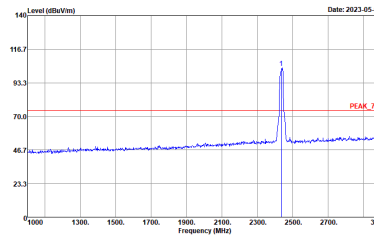
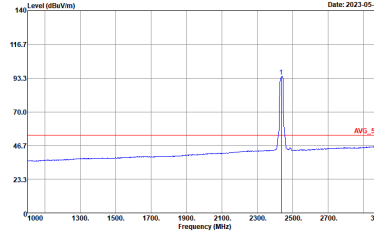


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
	Horizontal	Fundamental
	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at approximately 2437 MHz. The y-axis ranges from 0 to 140 dBm/100kHz, and the x-axis ranges from 2310 to 2470 MHz. A red vertical line marks the peak at 2437 MHz.</p> <p>Site : 03CH23-HY            Condition : PEAK_BE_74 3m LEZ005A18EN_230705 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a sharp peak at approximately 2437 MHz. The y-axis ranges from 0 to 140 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red vertical line marks the peak at 2437 MHz, labeled 'PEAK_74'.</p> <p>Site : 03CH23-HY            Condition : PEAK_74 3m LEZ005A18EN_230705 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at approximately 2437 MHz. The y-axis ranges from 0 to 140 dBm/100kHz, and the x-axis ranges from 2310 to 2470 MHz. A red vertical line marks the peak at 2437 MHz.</p> <p>Site : 03CH23-HY            Condition : AV6_BE_54 3m LEZ005A18EN_230705 HORIZONTAL            : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot showing a sharp peak at approximately 2437 MHz. The y-axis ranges from 0 to 140 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red vertical line marks the peak at 2437 MHz, labeled 'AVG_54'.</p> <p>Site : 03CH23-HY            Condition : AV6_54 3m LEZ005A18EN_230705 HORIZONTAL            : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>

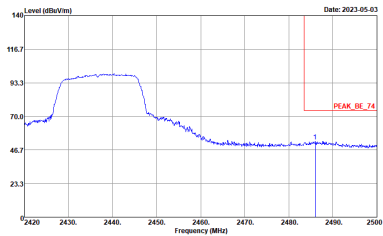
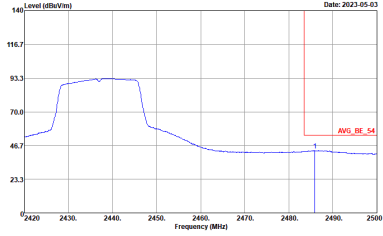


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
	Horizontal	Fundamental
Peak	<p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LE2C05A18EN_230705 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH23-HY Condition : AVG_BE_54 3m LE2C05A18EN_230705 HORIZONTAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>	Left blank



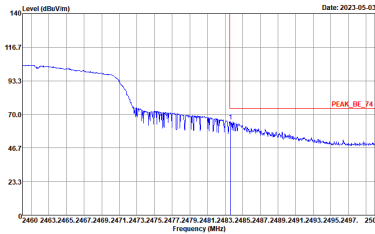
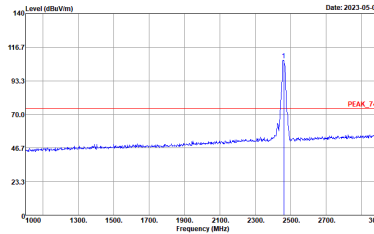
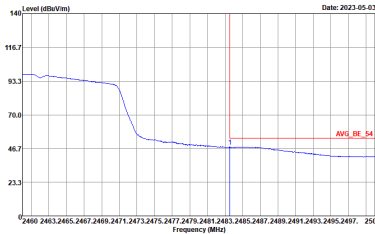
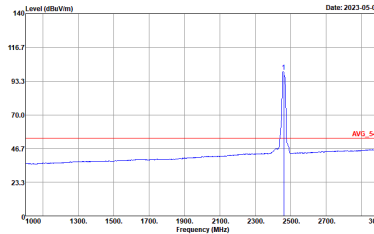
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
	Vertical	Fundamental
Peak	 <p>Level (dBm/1m) vs Frequency (MHz) plot showing a peak at approximately 2437 MHz. The y-axis ranges from 0 to 140 dBm/1m, and the x-axis ranges from 2310 to 2470 MHz. A red vertical line marks the peak at 2437 MHz.</p> <p>Site : 03CH23-HY            Condition : PEAK_BE_74 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/1m) vs Frequency (MHz) plot showing a peak at approximately 2437 MHz. The y-axis ranges from 0 to 140 dBm/1m, and the x-axis ranges from 1000 to 3000 MHz. A red vertical line marks the peak at 2437 MHz.</p> <p>Site : 03CH23-HY            Condition : PEAK_74 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBm/1m) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 0 to 140 dBm/1m, and the x-axis ranges from 2310 to 2470 MHz. A red vertical line marks the peak at 2437 MHz.</p> <p>Site : 03CH23-HY            Condition : AV6_BE_54 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Level (dBm/1m) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 0 to 140 dBm/1m, and the x-axis ranges from 1000 to 3000 MHz. A red vertical line marks the peak at 2437 MHz.</p> <p>Site : 03CH23-HY            Condition : AV6_54 3m LEZ005A18EN_230705 VERTICAL            : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>



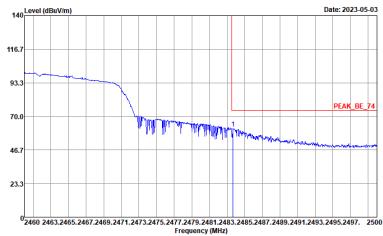
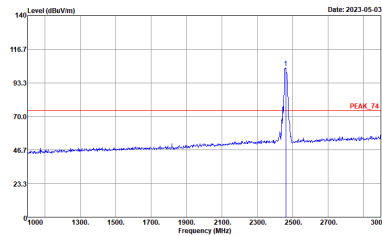
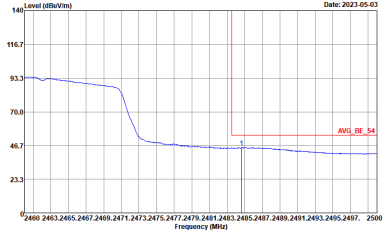
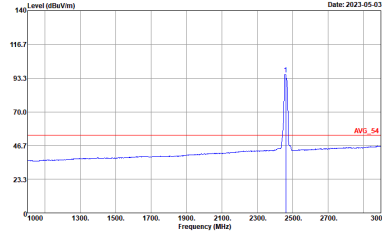
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LE2C05A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left Blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH23-HY Condition : AVG_BE_54 3m LE2C05A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	<p>Left Blank</p>





WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
	Horizontal	Fundamental
Peak	 <p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18ENL_230705 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18ENL_230705 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH23-HY Condition : AV6_BE_54 3m LEZ005A18ENL_230705 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : AV6_54 3m LEZ005A18ENL_230705 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
	Vertical	Fundamental
Peak	 <p>Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH23-HY Condition : AV6_BE_54 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Site : 03CH23-HY Condition : AV6_54 3m LEZ005A18EN_230705 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>



2.4GHz 2400~2483.5MHz  
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	<p>Horizontal spectrum plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes a red line labeled 'AVG_54' at approximately 46.7 dBuV/m and a blue line at approximately 23.3 dBuV/m. The x-axis ranges from 10000 to 18000 MHz. The y-axis ranges from 0 to 140 dBuV/m. Date: 2023-05-04. Site: 03CH23-HY, Condition: AV6_54 3m LE2C05A18EN_230705 HORIZONTAL.</p>	<p>Vertical spectrum plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes a red line labeled 'AVG_54' at approximately 46.7 dBuV/m and a blue line at approximately 23.3 dBuV/m. The x-axis ranges from 10000 to 18000 MHz. The y-axis ranges from 0 to 140 dBuV/m. Date: 2023-05-04. Site: 03CH23-HY, Condition: AV6_54 3m LE2C05A18EN_230705 VERTICAL.</p>

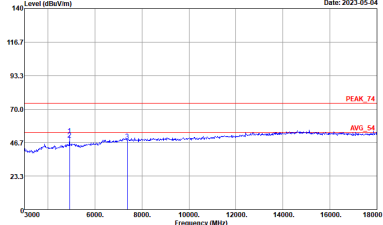
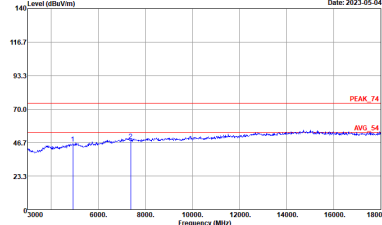


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 HORIZONTAL</p>	 <p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 VERTICAL</p>





**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11g (Harmonic @ 3m)**

<b>WIFI</b>	<b>2.4GHz 2400~2483.5MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11g CH01 2412MHz</b>	
	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH23-HY          Condition : PEAK_74 3m LEZC05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY          Condition : PEAK_74 3m LEZC05A18EN_230705 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
	Horizontal	Vertical
<p>10.6G ~18G Avg.</p>	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 VERTICAL</p>



2.4GHz 2400~2483.5MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)

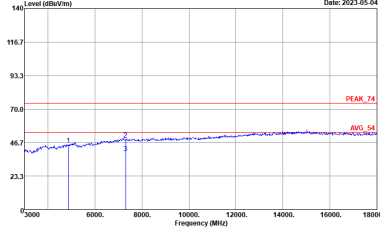
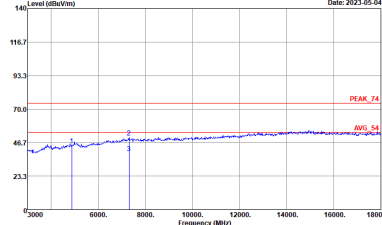
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 VERTICAL</p>





WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 HORIZONTAL</p>	 <p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230705 VERTICAL</p>

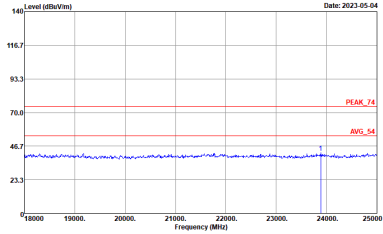
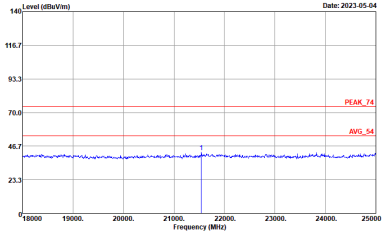


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : AV6_54 3m LE2C05A18EN_230705 VERTICAL</p>



Emission above 18GHz

2.4GHz WIFI 802.11b (SHF @ 1m)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11b SHF	
	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH23-HY Condition : PEAK_74 1m SHF_1223_220705 HORIZONTAL</p>	 <p>Site : 03CH23-HY Condition : PEAK_74 1m SHF_1223_220705 VERTICAL</p>



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11b (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11b LF	
	<b>Horizontal</b>	<b>Vertical</b>
<b>QP / Peak</b>	<p>Site : 03CH23-HY Condition : QP 3m BIL06_62028_231010 HORIZONTAL</p>	<p>Site : 03CH23-HY Condition : QP 3m BIL06_62028_231010 VERTICAL</p>



## Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11b	99.61	-	-	10Hz
802.11g	97.20	1390	0.72	1kHz
2.4GHz 802.11n HT20	97.38	1300	0.77	1kHz

