



FCC RADIO TEST REPORT

FCC ID : 2AWL7-BS02WF
Equipment : Wireless Motion Sensor
Brand Name : BestShape
Model Name : BS02WF
Applicant : Wistron Medical Technology Corporation
5F., No.5, Xin'an Rd., East Dist., Hsinchu City
300, Taiwan (ROC)
Manufacturer : Wistron Corporation
No.5, Hsin An Road, Hsinchu Science
Park Hsinchu, Taiwan, R.O.C.
Standard : FCC Part 15 Subpart C §15.247

The product was received on Apr. 14, 2023 and testing was performed from Apr. 25, 2023 to May 26, 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.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	5
1.4 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode.....	8
2.3 Connection Diagram of Test System.....	9
2.4 Support Unit used in test configuration and system	9
2.5 EUT Operation Test Setup	9
2.6 Measurement Results Explanation Example.....	10
3 Test Result	11
3.1 6dB and 99% Bandwidth Measurement	11
3.2 Output Power Measurement.....	12
3.3 Power Spectral Density Measurement	13
3.4 Conducted Band Edges and Spurious Emission Measurement	14
3.5 Radiated Band Edges and Spurious Emission Measurement	15
3.6 AC Conducted Emission Measurement.....	19
3.7 Antenna Requirements.....	21
4 List of Measuring Equipment.....	22
5 Measurement Uncertainty	24
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Radiated Spurious Emission	
Appendix D. Radiated Spurious Emission Plots	
Appendix E. Duty Cycle Plots	
Appendix F. Setup Photographs	



History of this test report

Report No.	Version	Description	Issue Date
FR332423A	01	Initial issue of report	Jul. 26, 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	0.32 dB under the limit at 7311.000 MHz
3.6	15.207	AC Conducted Emission	Pass	3.05 dB under the limit at 0.393 MHz
3.7	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Yun Huang

Report Producer: Michelle Chen



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Wi-Fi 2.4GHz 802.11b/g/n and 60GHz		
Antenna Type WLAN: PIFA Antenna 60GHz: Antenna-on-Package (AOP) Antenna		
Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	2.74

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

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. CO05-HY (TAF Code: 1190)
Remark	The AC Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	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
Test Site No.	Sporton Site No. TH05-HY, 03CH12-HY

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

FCC designation No.: TW1190 and 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.

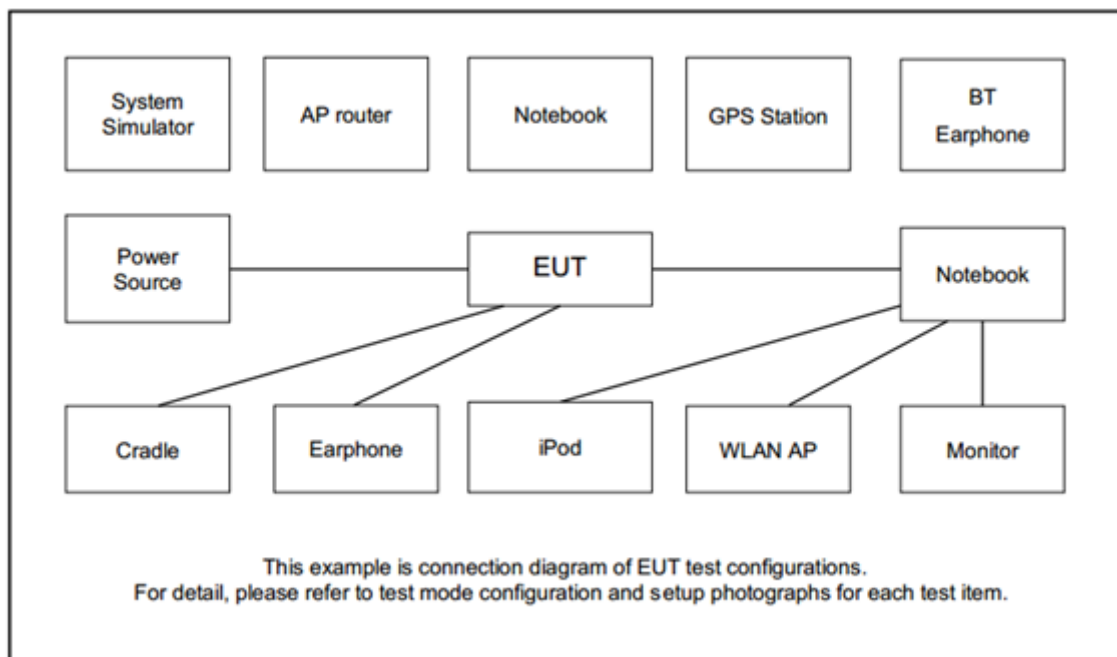
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (2.4GHz) Link + Adapter

Ch. #	2400-2483.5 MHz		
	802.11b	802.11g	802.11n HT20
Low	01	01	01
	-	02	02
	-	03	03
Middle	-	04	04
	-	05	-
	06	06	06
High	-	09	09
	-	10	10
	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.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “Putty Release 0.62” was installed in Notebook which was programmed in order to make the EUT 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.

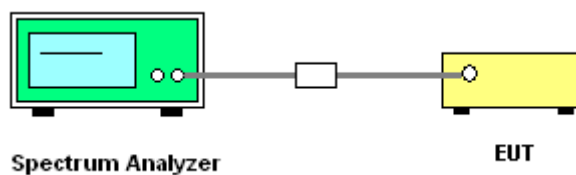
3.1.2 Measuring Instruments

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.

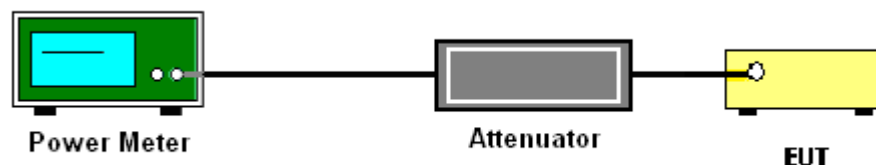
3.2.2 Measuring Instruments

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.

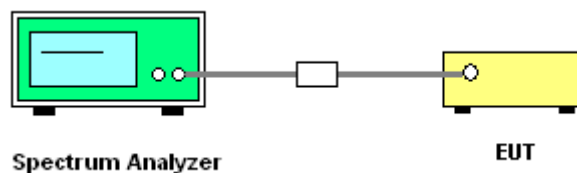
3.3.2 Measuring Instruments

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.

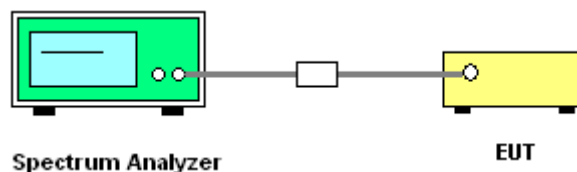
3.4.2 Measuring Instruments

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 “-”.

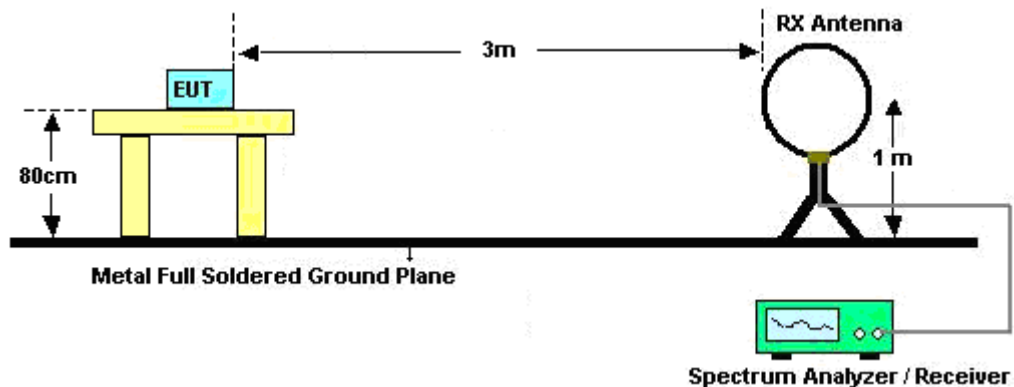
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with 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:

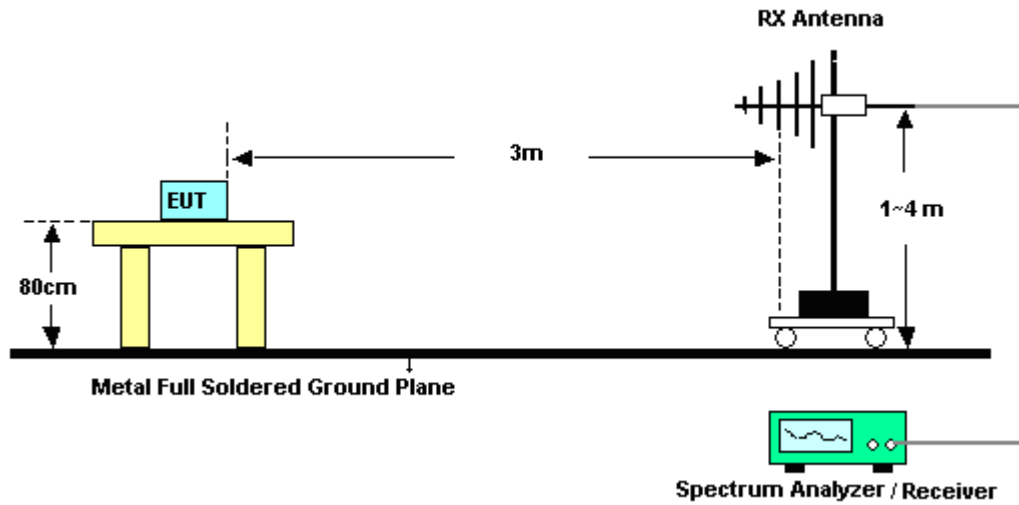
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

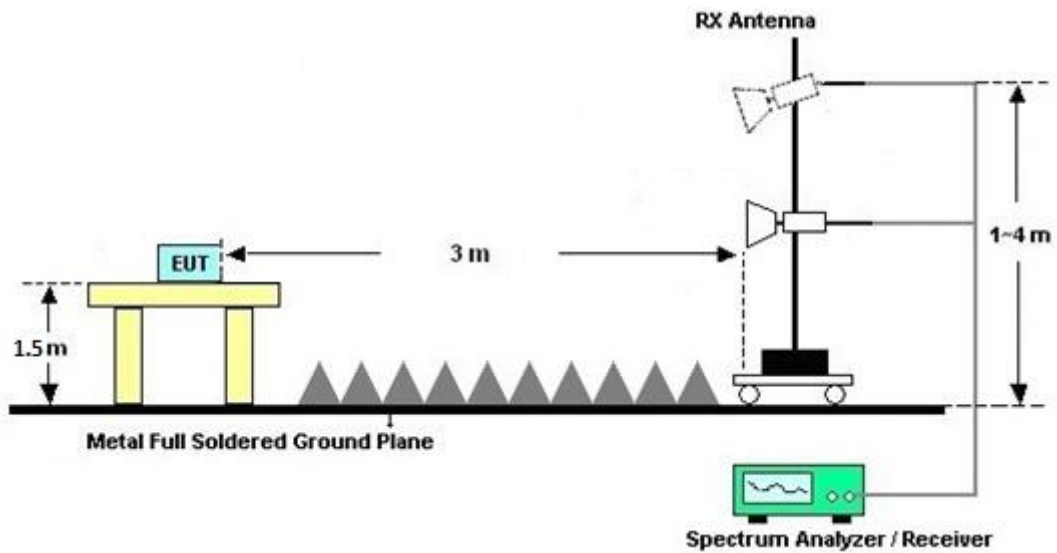
For radiated emissions below 30MHz



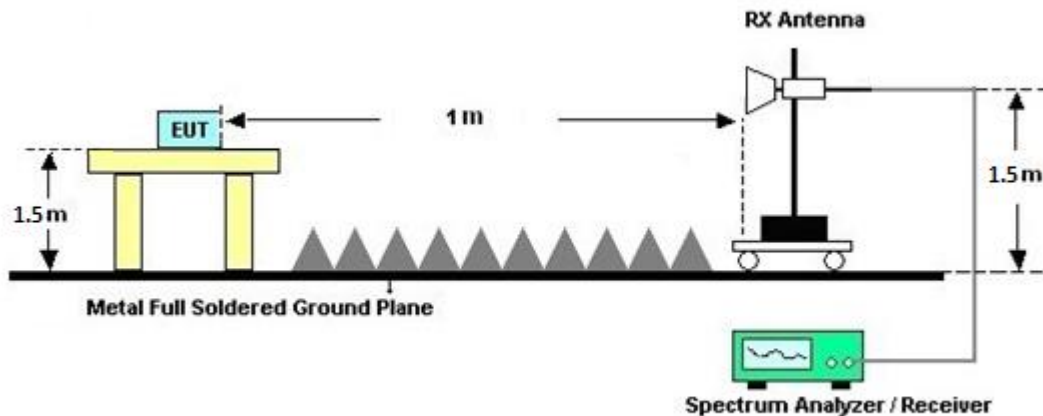
For radiated emissions from 30MHz to 1GHz



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 ~ 10th 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 (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

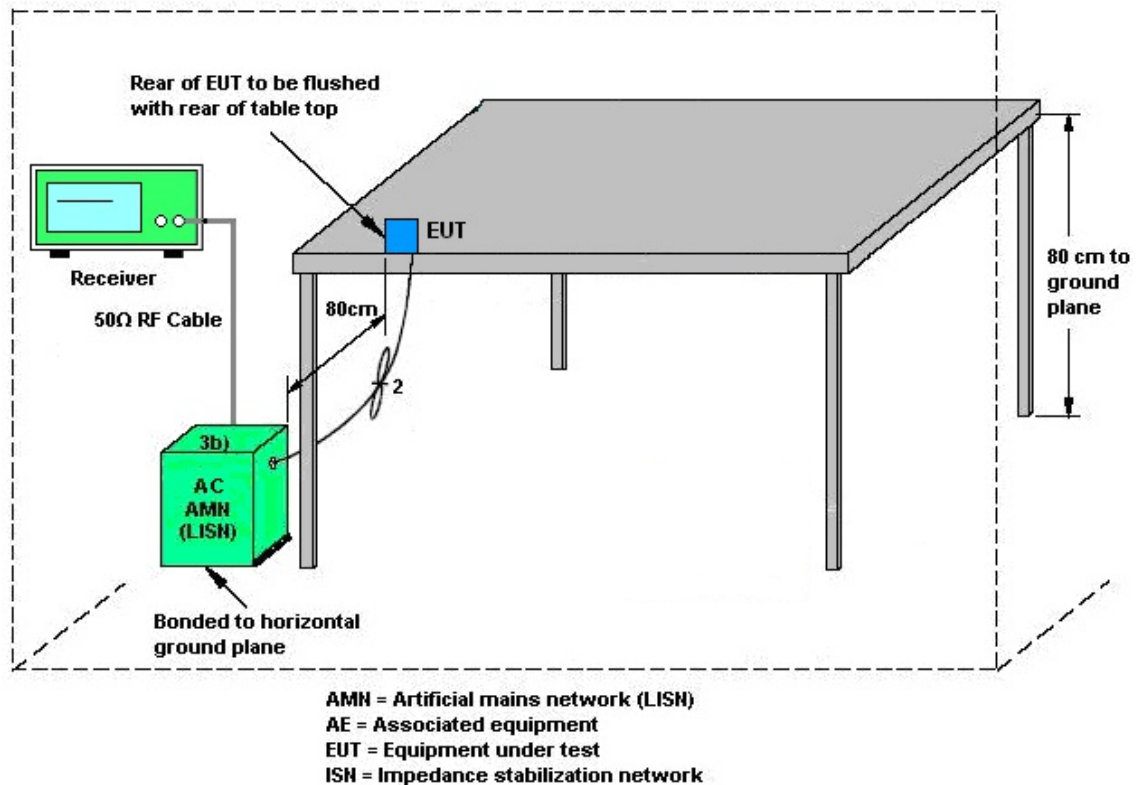
3.6.2 Measuring Instruments

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	TECPEL	DTM-303A	TP201996	N/A	Nov. 17, 2022	Apr. 29, 2023~ May 24, 2023	Nov. 16, 2023	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 12 (NO:113)	10MHz~6GHz	Dec. 13, 2022	Apr. 29, 2023~ May 24, 2023	Dec. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz - 40GHz	Aug. 03, 2022	Apr. 29, 2023~ May 24, 2023	Aug. 02, 2023	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 25, 2023	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2022	Apr. 25, 2023	Nov. 30, 2023	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2022	Apr. 25, 2023	Nov. 16, 2023	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 17, 2022	Apr. 25, 2023	Nov. 16, 2023	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Apr. 25, 2023	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Aug. 01, 2022	Apr. 25, 2023	Jul. 31, 2023	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 29, 2022	Apr. 25, 2023	Dec. 28, 2023	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	May 06, 2023~ May 26, 2023	Sep. 19, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 10, 2022	May 06, 2023~ May 26, 2023	Nov. 09, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Aug. 09, 2022	May 06, 2023~ May 26, 2023	Aug. 08, 2023	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 24, 2022	May 06, 2023~ May 26, 2023	Nov. 23, 2023	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 21, 2023	May 06, 2023~ May 26, 2023	Mar. 20, 2024	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 24, 2022	May 06, 2023~ May 22, 2023	May 23, 2023	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 23, 2023	May 23, 2023~ May 26, 2023	May 22, 2024	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-5 6-01-A70	EC1900249	1GHz~18GHz	Dec. 21, 2022	May 06, 2023~ May 26, 2023	Dec. 20, 2023	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2022	May 06, 2023~ May 26, 2023	Dec. 06, 2023	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 10, 2023	May 06, 2023~ May 26, 2023	Jan. 09, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass Filter	Mar. 13, 2023	May 06, 2023~ May 26, 2023	Mar. 12, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700-30 00-18000-60ST	SN2	3GHz High Pass Filter	Jul. 11, 2022	May 06, 2023~ May 26, 2023	Jul. 10, 2023	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 15, 2023	May 06, 2023~ May 26, 2023	Mar. 14, 2024	Radiation (03CH12-HY)
RF Cable	TUYUE	RG142D-NmB NCm-3000	H0620	9kHz~30MHz	Mar. 14, 2023	May 06, 2023~ May 26, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 20, 2022	May 06, 2023~ May 26, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15539/4	30MHz~18GHz	Dec. 20, 2022	May 06, 2023~ May 26, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 20, 2022	May 06, 2023~ May 26, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 20, 2022	May 06, 2023~ May 26, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
Hygrometer	TECEPEL	DTM-303B	TP210090	N/A	Oct. 03, 2022	May 06, 2023~ May 26, 2023	Oct. 02, 2023	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	May 06, 2023~ May 26, 2023	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	May 06, 2023~ May 26, 2023	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	May 06, 2023~ May 26, 2023	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	May 06, 2023~ May 26, 2023	N/A	Radiation (03CH12-HY)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.5 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
--	--------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.4 dB
--	--------

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2 dB
--	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Benny Ku and Sylvia Li	Temperature:	21~25	°C
Test Date:	2023/04/29~2023/05/24	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	12.24	-	9.08	-	0.50	Pass
11b	1Mbps	1	6	2437	12.34	-	8.58	-	0.50	Pass
11b	1Mbps	1	11	2462	12.19	-	8.12	-	0.50	Pass
11g	6Mbps	1	1	2412	18.03	-	16.30	-	0.50	Pass
11g	6Mbps	1	6	2437	18.43	-	16.10	-	0.50	Pass
11g	6Mbps	1	11	2462	17.88	-	15.86	-	0.50	Pass
HT20	MCS0	1	1	2412	18.93	-	16.96	-	0.50	Pass
HT20	MCS0	1	6	2437	19.13	-	16.72	-	0.50	Pass
HT20	MCS0	1	11	2462	18.78	-	16.32	-	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	18.30	-		30.00	-	2.74	-	21.04	-	36.00	-	Pass
11b	1Mbps	1	6	2437	20.00	-		30.00	-	2.74	-	22.74	-	36.00	-	Pass
11b	1Mbps	1	11	2462	17.60	-		30.00	-	2.74	-	20.34	-	36.00	-	Pass
11g	6Mbps	1	1	2412	13.80	-		30.00	-	2.74	-	16.54	-	36.00	-	Pass
11g	6Mbps	1	2	2417	13.70	-		30.00	-	2.74	-	16.44	-	36.00	-	Pass
11g	6Mbps	1	3	2422	15.40	-		30.00	-	2.74	-	18.14	-	36.00	-	Pass
11g	6Mbps	1	4	2427	15.20	-		30.00	-	2.74	-	17.94	-	36.00	-	Pass
11g	6Mbps	1	5	2432	17.00	-		30.00	-	2.74	-	19.74	-	36.00	-	Pass
11g	6Mbps	1	6	2437	20.00	-		30.00	-	2.74	-	22.74	-	36.00	-	Pass
11g	6Mbps	1	9	2452	17.00	-		30.00	-	2.74	-	19.74	-	36.00	-	Pass
11g	6Mbps	1	10	2457	14.40	-		30.00	-	2.74	-	17.14	-	36.00	-	Pass
11g	6Mbps	1	11	2462	14.70	-		30.00	-	2.74	-	17.44	-	36.00	-	Pass
HT20	MCS0	1	1	2412	13.80	-		30.00	-	2.74	-	16.54	-	36.00	-	Pass
HT20	MCS0	1	2	2417	14.90	-		30.00	-	2.74	-	17.64	-	36.00	-	Pass
HT20	MCS0	1	3	2422	14.90	-		30.00	-	2.74	-	17.64	-	36.00	-	Pass
HT20	MCS0	1	4	2427	15.80	-		30.00	-	2.74	-	18.54	-	36.00	-	Pass
HT20	MCS0	1	6	2437	18.60	-		30.00	-	2.74	-	21.34	-	36.00	-	Pass
HT20	MCS0	1	9	2452	16.60	-		30.00	-	2.74	-	19.34	-	36.00	-	Pass
HT20	MCS0	1	10	2457	14.80	-		30.00	-	2.74	-	17.54	-	36.00	-	Pass
HT20	MCS0	1	11	2462	13.40	-		30.00	-	2.74	-	16.14	-	36.00	-	Pass

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

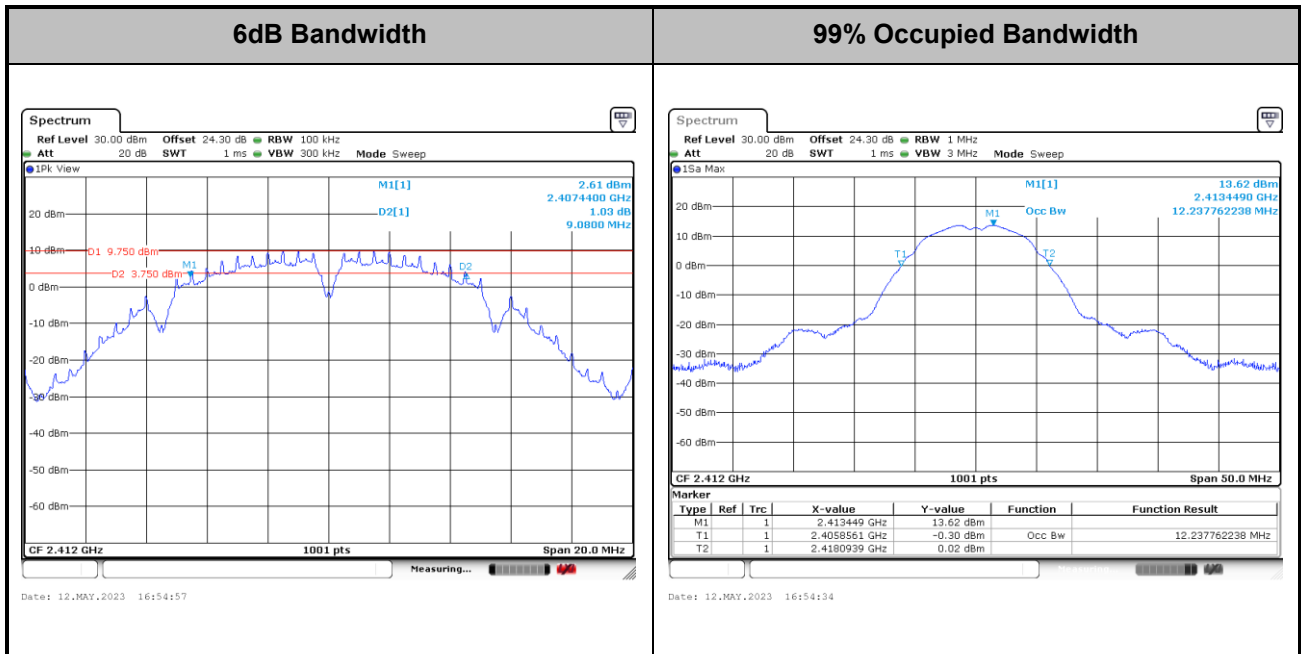
TEST RESULTS DATA
Peak Power Spectral Density

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	-3.81	-		2.74	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-2.50	-		2.74	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-5.48	-		2.74	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-11.99	-		2.74	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-5.87	-		2.74	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-10.26	-		2.74	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-10.94	-		2.74	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-6.67	-		2.74	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-10.86	-		2.74	-	8.00	-	Pass

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

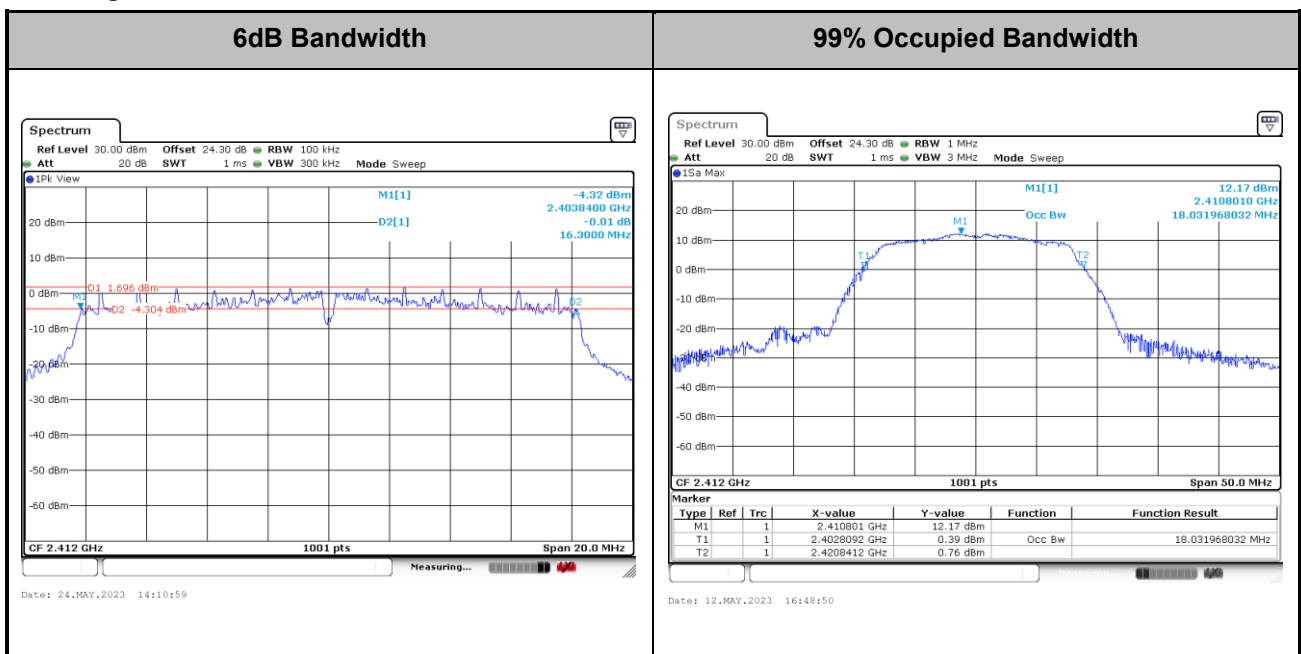
**6dB and 99% Occupied Bandwidth**

<802.11b>



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

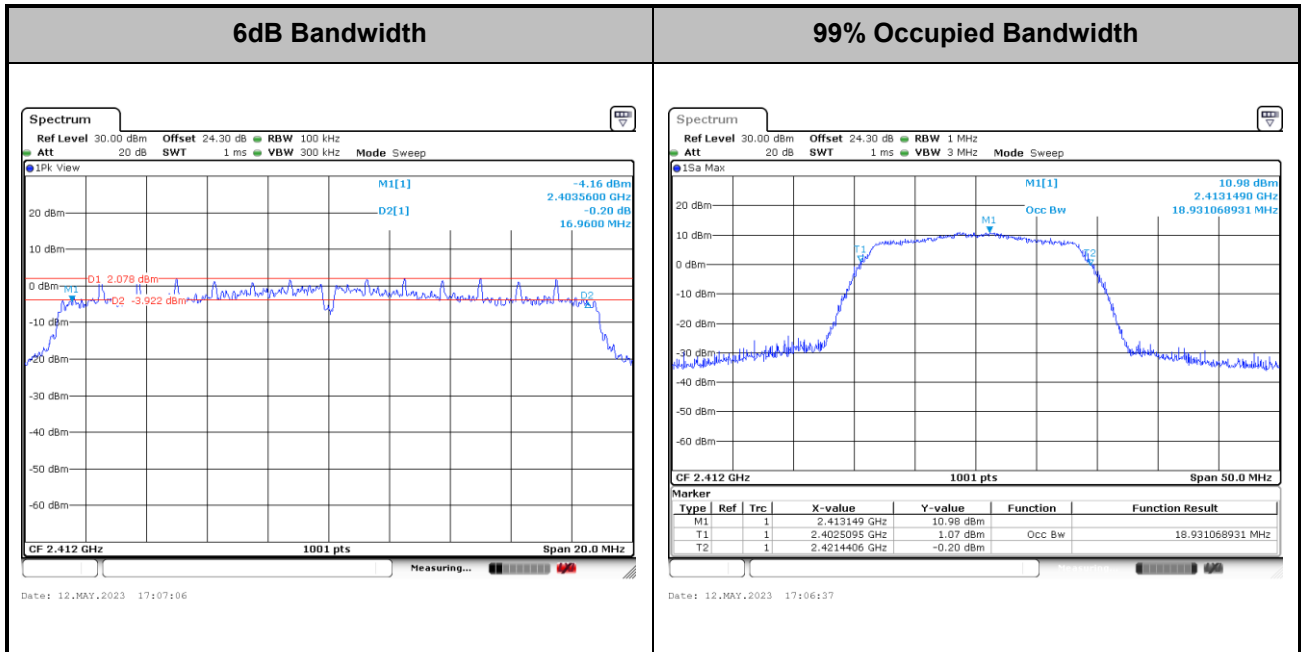
<802.11g>



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



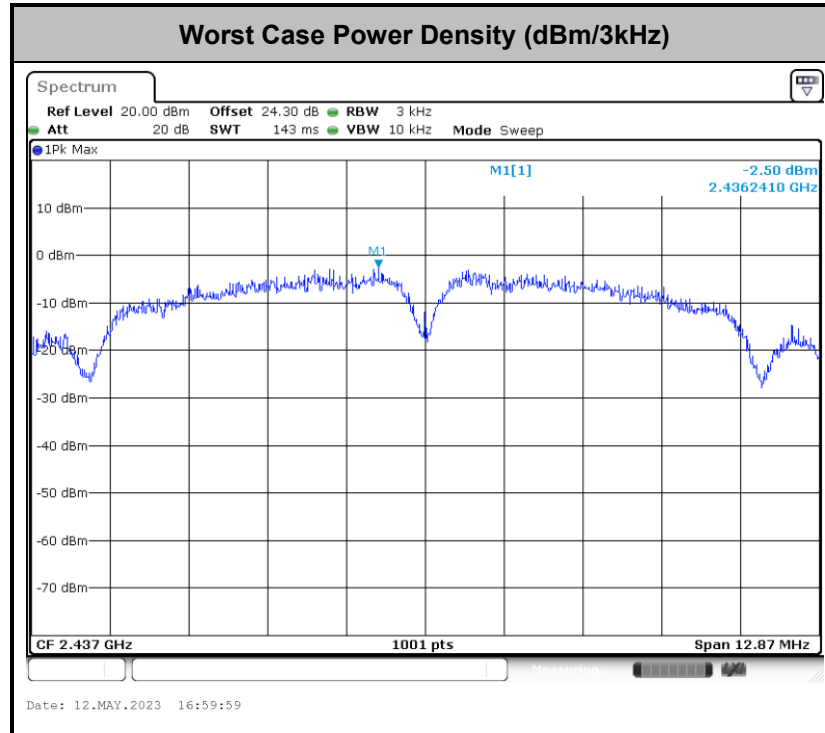
<802.11n HT20>



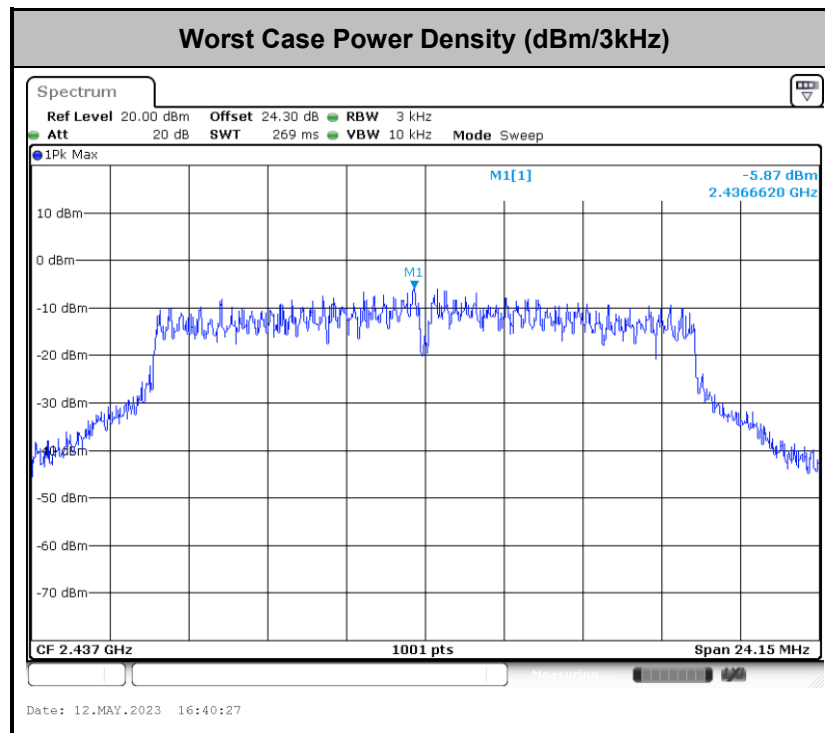
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

Power Spectral Density(dBm/3kHz)

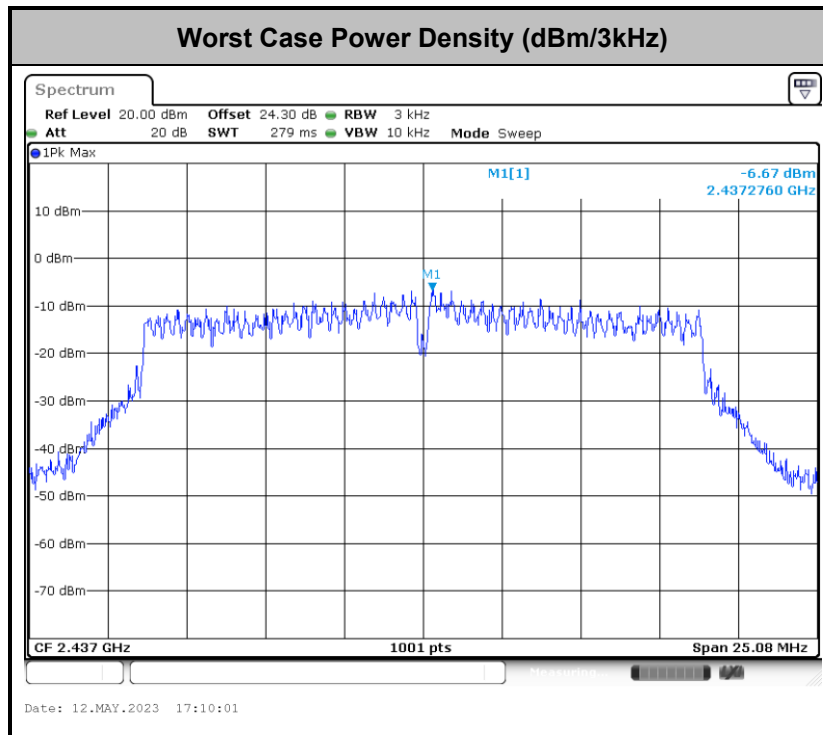
<802.11b>



<802.11g>



<802.11n HT20>

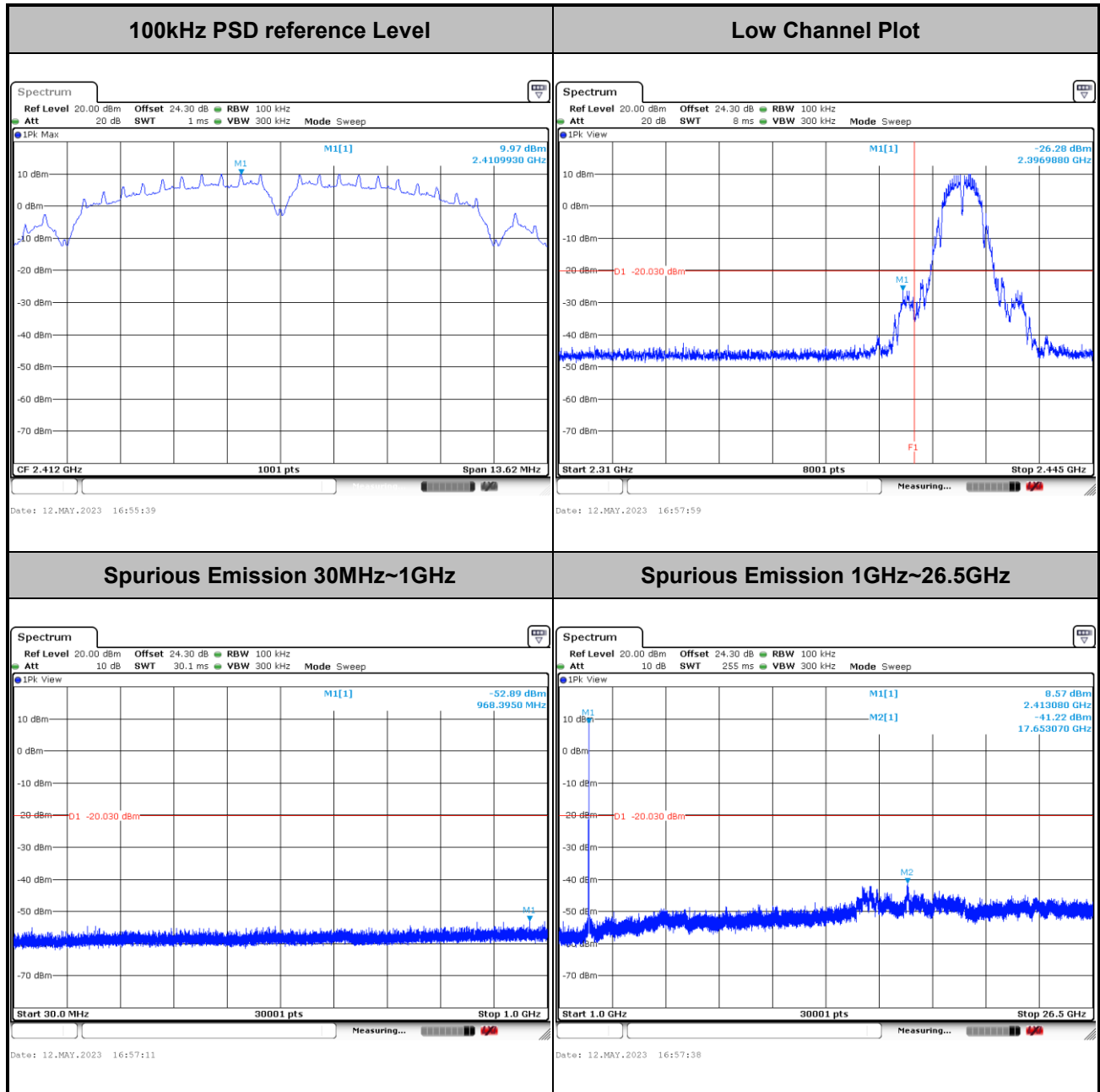




Band Edges and Spurious Emission

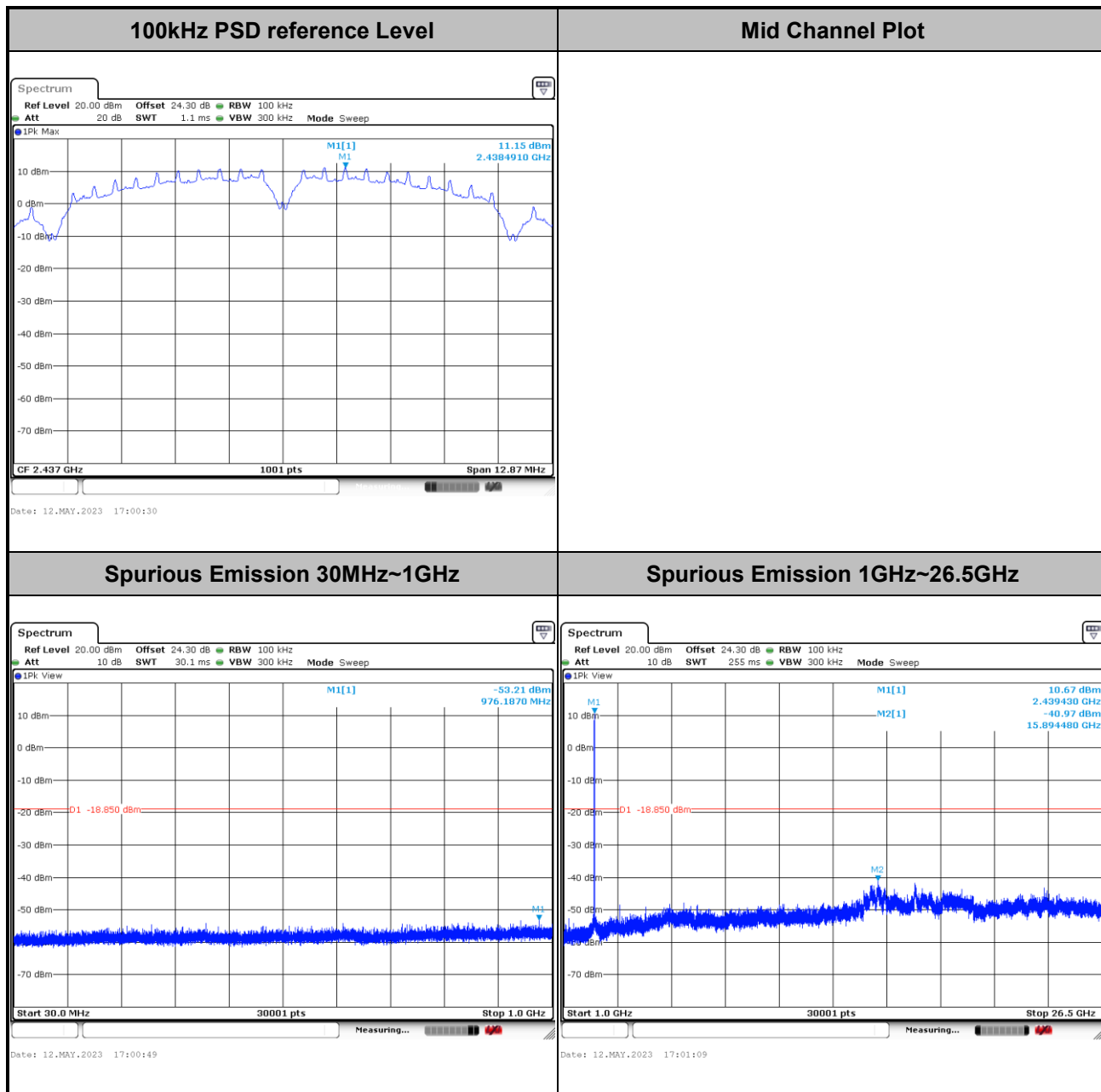
Number of TX = 1, Ant. 1 (Measured)

Test Mode :	802.11b	Test Channel :	01
-------------	---------	----------------	----



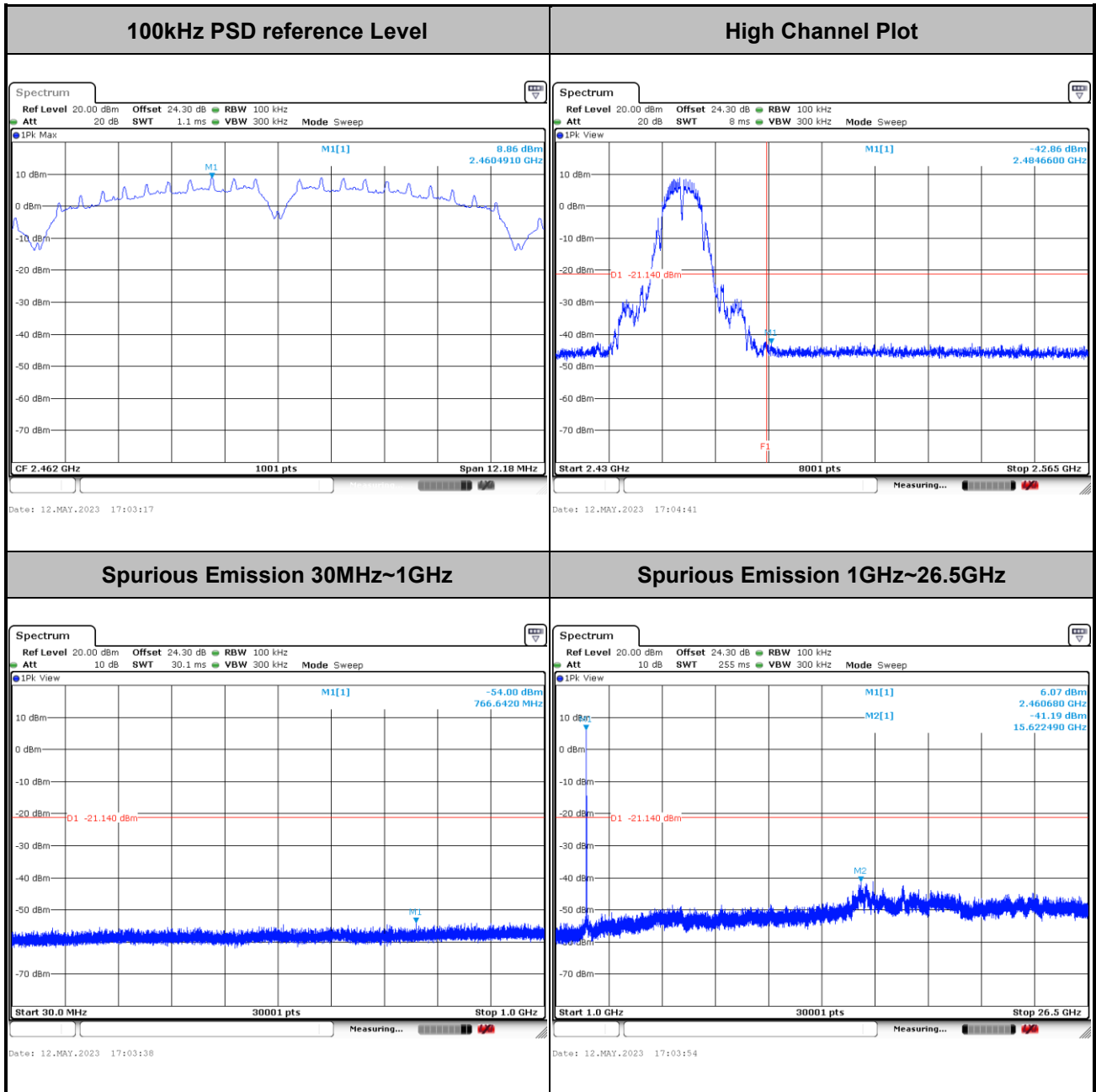


Test Mode :	802.11b	Test Channel :	06
-------------	---------	----------------	----



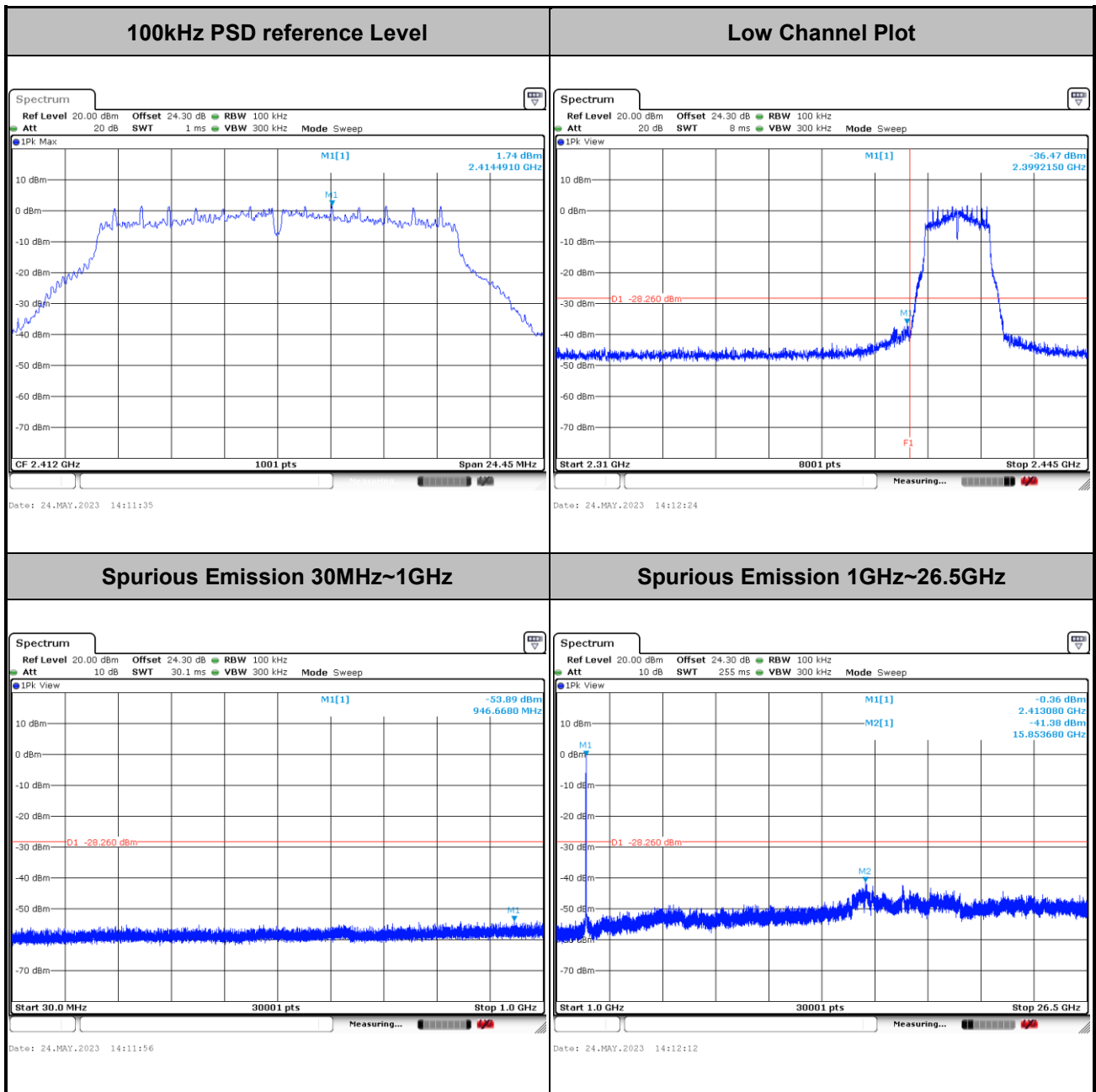


Test Mode :	802.11b	Test Channel :	11
-------------	---------	----------------	----



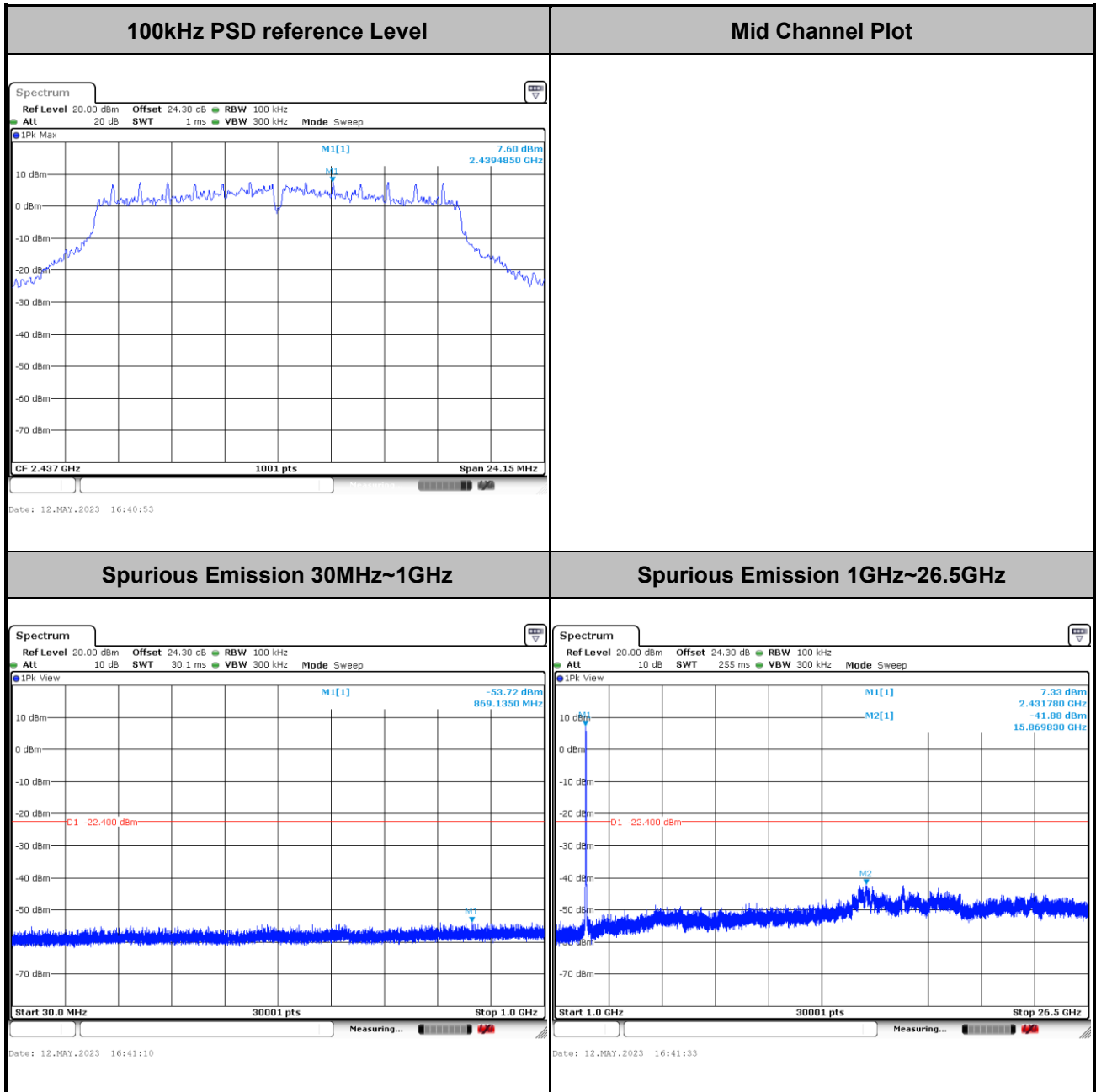


Test Mode :	802.11g	Test Channel :	01
-------------	---------	----------------	----



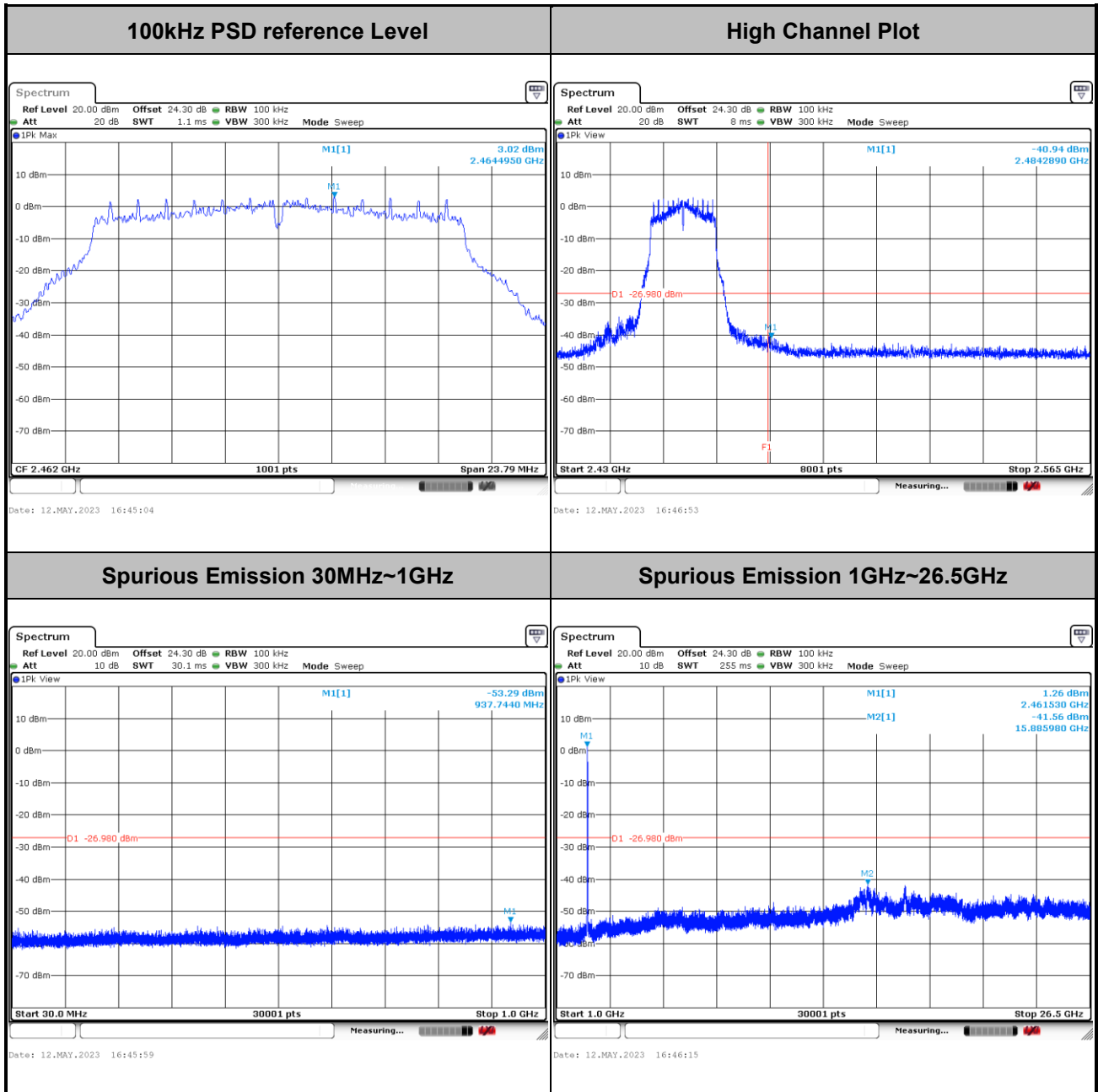


Test Mode :	802.11g	Test Channel :	06
-------------	---------	----------------	----



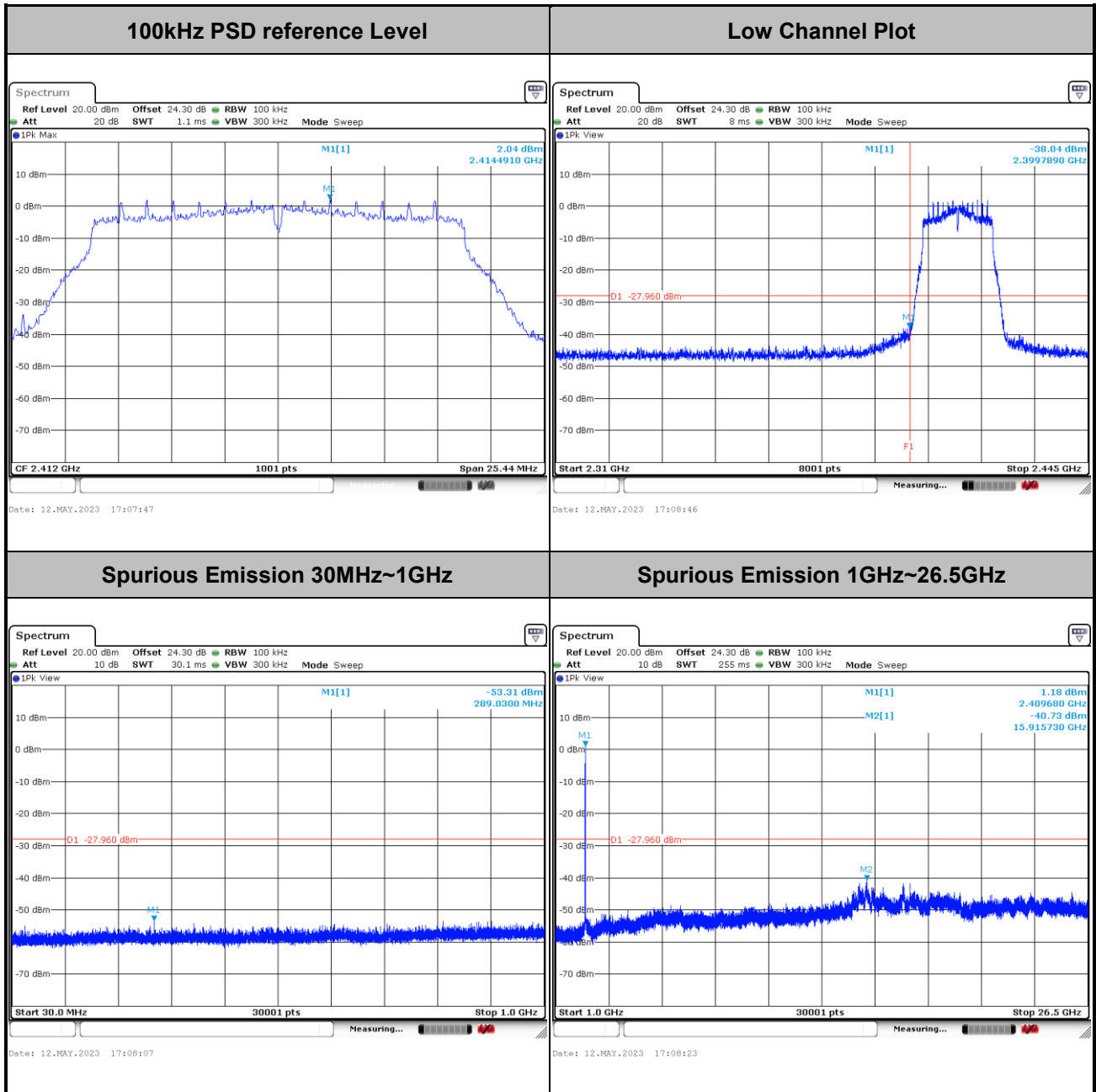


Test Mode :	802.11g	Test Channel :	11
-------------	---------	----------------	----





Test Mode :	802.11n HT20	Test Channel :	01
-------------	--------------	----------------	----





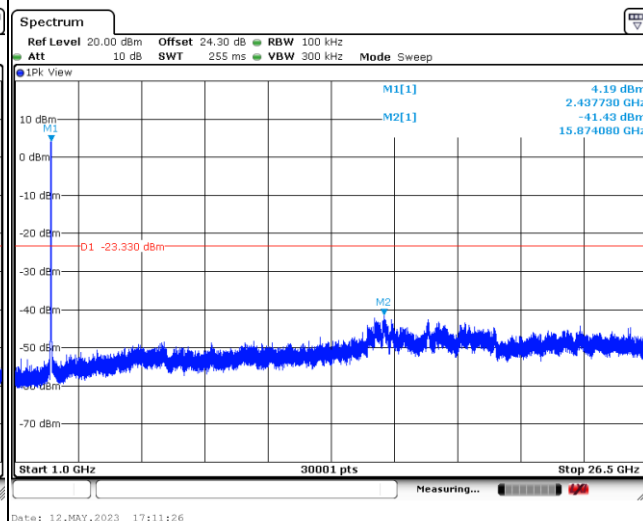
Test Mode :	802.11n HT20
--------------------	--------------

Test Channel :	06
-----------------------	----

Mid Channel Plot

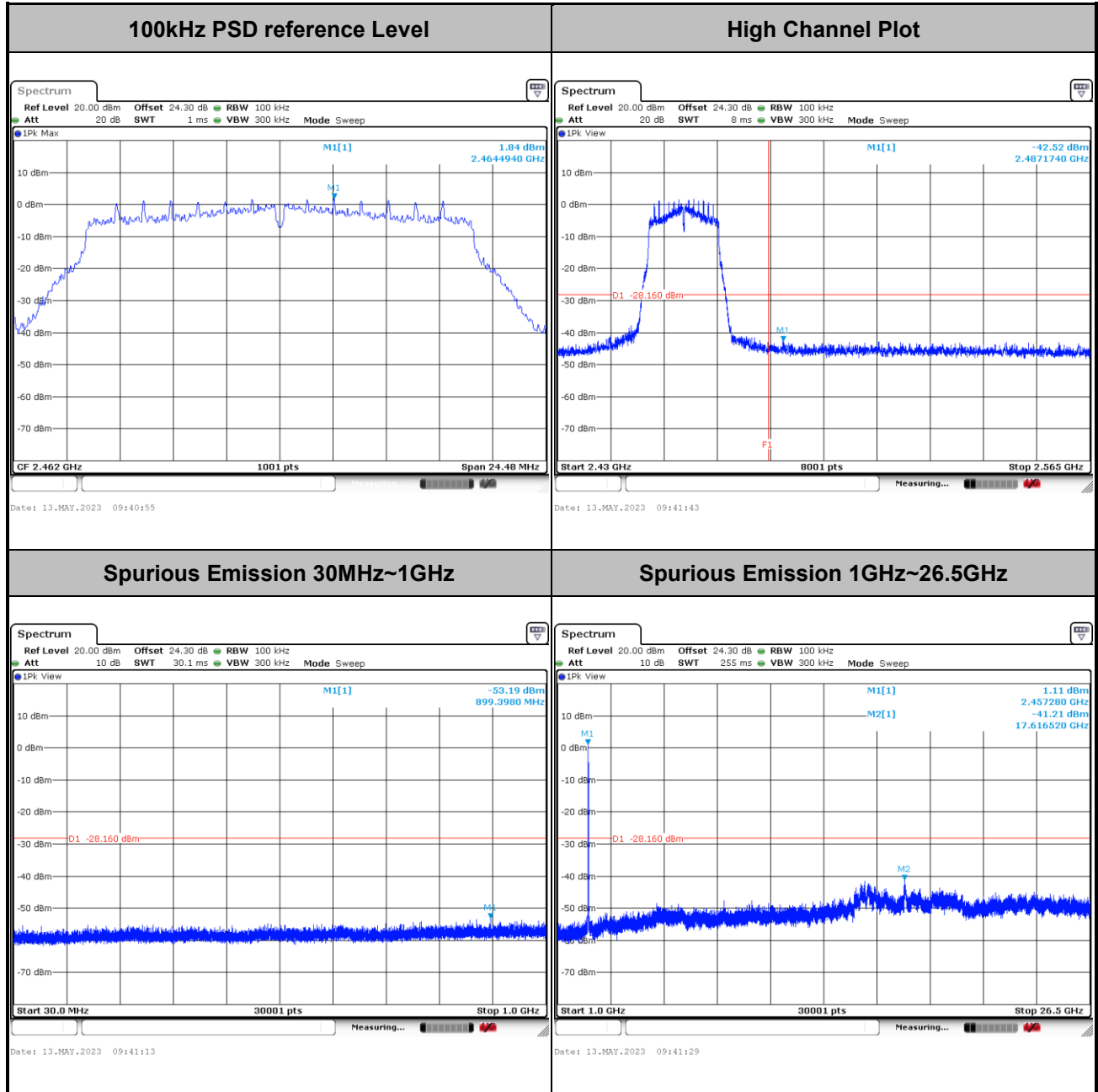


Spurious Emission 1GHz~26.5GHz





Test Mode :	802.11n HT20	Test Channel :	11
-------------	--------------	----------------	----





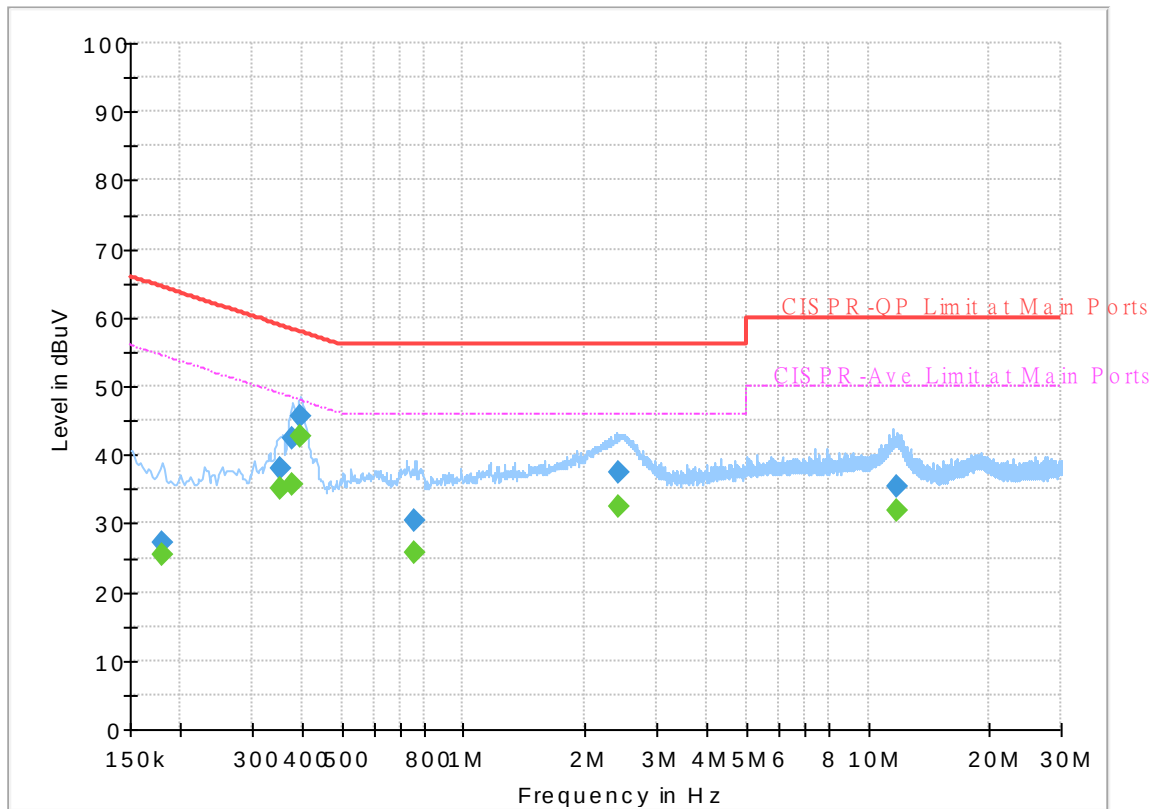
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO : 332423
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



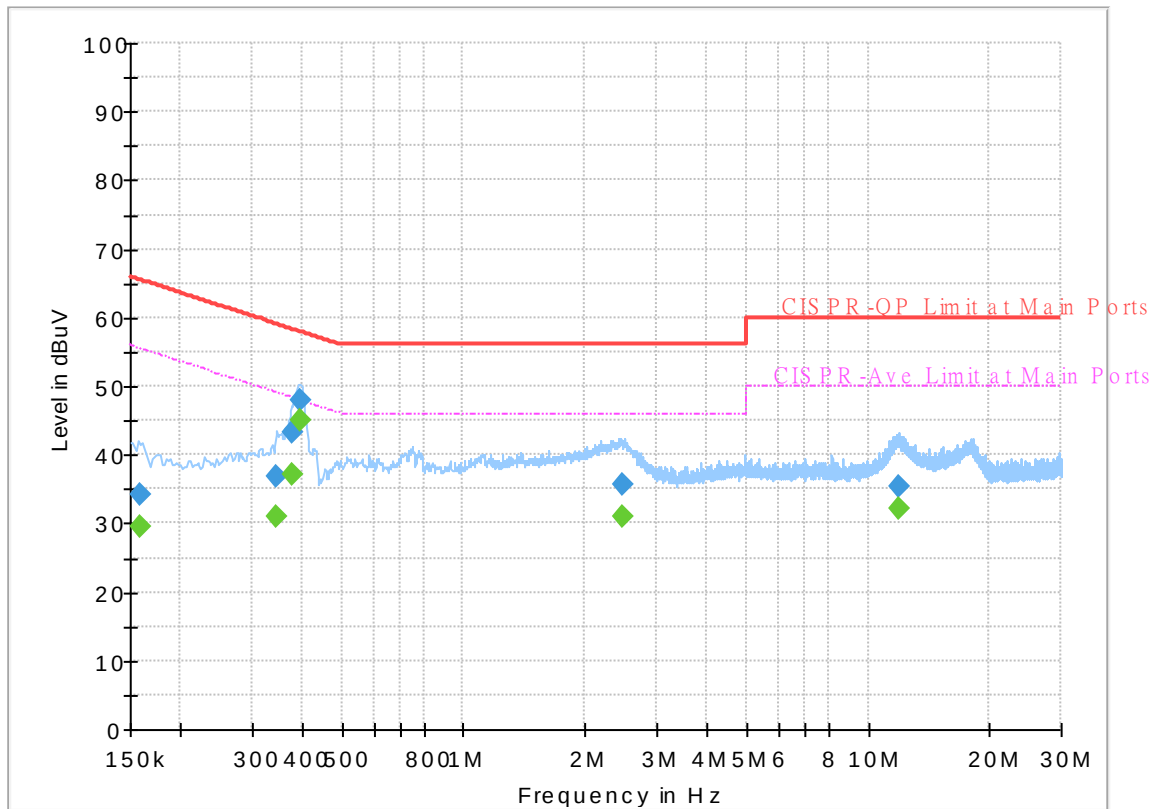
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.179250	---	25.54	54.52	28.98	L1	OFF	19.9
0.179250	27.21	---	64.52	37.31	L1	OFF	19.9
0.352500	---	35.03	48.90	13.87	L1	OFF	19.9
0.352500	37.99	---	58.90	20.91	L1	OFF	19.9
0.377250	---	35.68	48.34	12.66	L1	OFF	19.9
0.377250	42.44	---	58.34	15.90	L1	OFF	19.9
0.395250	---	42.77	47.95	5.18	L1	OFF	19.9
0.395250	45.57	---	57.95	12.38	L1	OFF	19.9
0.759750	---	25.74	46.00	20.26	L1	OFF	19.9
0.759750	30.29	---	56.00	25.71	L1	OFF	19.9
2.429250	---	32.56	46.00	13.44	L1	OFF	19.9
2.429250	37.38	---	56.00	18.62	L1	OFF	19.9
11.791500	---	31.85	50.00	18.15	L1	OFF	20.3
11.791500	35.32	---	60.00	24.68	L1	OFF	20.3

EUT Information

Report NO : 332423
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	29.40	55.52	26.12	N	OFF	19.9
0.159000	34.09	---	65.52	31.43	N	OFF	19.9
0.343500	---	30.92	49.12	18.20	N	OFF	19.9
0.343500	36.80	---	59.12	22.32	N	OFF	19.9
0.377250	---	37.23	48.34	11.11	N	OFF	19.9
0.377250	43.27	---	58.34	15.07	N	OFF	19.9
0.393000	---	44.95	48.00	3.05	N	OFF	19.9
0.393000	48.01	---	58.00	9.99	N	OFF	19.9
2.465250	---	31.02	46.00	14.98	N	OFF	19.9
2.465250	35.69	---	56.00	20.31	N	OFF	19.9
11.973750	---	32.02	50.00	17.98	N	OFF	20.3
11.973750	35.26	---	60.00	24.74	N	OFF	20.3



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Fan, Tim Lee and Wilson Wu	Temperature :	20~25°C
		Relative Humidity :	50~60%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2389.38	61.93	-12.07	74	51.47	27.34	16.76	33.64	383	221	P	H
		2390	47.93	-6.07	54	37.47	27.34	16.76	33.64	383	221	A	H
	*	2412	103.82	-	-	93.19	27.47	16.8	33.64	383	221	P	H
	*	2412	96.28	-	-	85.65	27.47	16.8	33.64	383	221	A	H
													H
													H
		2388.855	62.25	-11.75	74	51.8	27.33	16.76	33.64	195	122	P	V
		2389.38	51.03	-2.97	54	40.57	27.34	16.76	33.64	195	122	A	V
	*	2412	108.82	-	-	98.19	27.47	16.8	33.64	195	122	P	V
	*	2412	101.62	-	-	90.99	27.47	16.8	33.64	195	122	A	V
													V
													V
802.11b CH 06 2437MHz		2352.98	55.94	-18.06	74	45.6	27.12	16.69	33.47	366	211	P	H
		2365.02	45.81	-8.19	54	35.39	27.19	16.71	33.48	366	211	A	H
	*	2437	101.87	-	-	90.93	27.62	16.84	33.52	366	211	P	H
	*	2437	98.75	-	-	87.81	27.62	16.84	33.52	366	211	A	H
		2499.02	56	-18	74	44.7	27.9	16.95	33.55	366	211	P	H
		2488.8	46.41	-7.59	54	35.15	27.86	16.94	33.54	366	211	A	H
		2363.9	56.06	-17.94	74	45.65	27.18	16.71	33.48	117	168	P	V
		2360.26	46.66	-7.34	54	36.28	27.16	16.7	33.48	117	168	A	V
	*	2437	110.18	-	-	99.24	27.62	16.84	33.52	117	168	P	V
	*	2437	107.06	-	-	96.12	27.62	16.84	33.52	117	168	A	V
		2494.47	56.28	-17.72	74	45	27.88	16.95	33.55	117	168	P	V
		2487.33	46.81	-7.19	54	35.57	27.85	16.93	33.54	117	168	A	V



802.11b CH 11 2462MHz	*	2462	100.94	-	-	89.83	27.75	16.89	33.53	203	314	P	H
	*	2462	97.95	-	-	86.84	27.75	16.89	33.53	203	314	A	H
		2483.52	56.04	-17.96	74	44.82	27.83	16.93	33.54	203	314	P	H
		2483.56	47.26	-6.74	54	36.04	27.83	16.93	33.54	203	314	A	H
													H
													H
	*	2462	108.92	-	-	97.81	27.75	16.89	33.53	302	64	P	V
	*	2462	105.93	-	-	94.82	27.75	16.89	33.53	302	64	A	V
		2484.4	58.42	-15.58	74	47.19	27.84	16.93	33.54	302	64	P	V
		2483.52	51.66	-2.34	54	40.44	27.83	16.93	33.54	302	64	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

[illegible]



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	46.09	-27.91	74	69.16	32.65	11.01	66.73	119	195	P	H
		7311	57.9	-16.1	74	72.77	36.98	13.53	65.38	214	242	P	H
		7311	53.68	-0.32	54	68.55	36.98	13.53	65.38	214	242	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4874	48.93	-25.07	74	72	32.65	11.01	66.73	203	176	P	V
		4874	44.45	-9.55	54	67.52	32.65	11.01	66.73	203	176	A	V
		7311	51.95	-22.05	74	66.82	36.98	13.53	65.38	385	177	P	V
		7311	47.94	-6.06	54	62.81	36.98	13.53	65.38	385	177	A	V
													V
													V
													V
													V
													V
													V
													V

[illegible]



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		2386.86	55.92	-18.08	74	45.33	27.32	16.76	33.49	283	85	P	H
		2389.905	46.43	-7.57	54	35.82	27.34	16.76	33.49	283	85	A	H
	*	2412	95.72	-	-	84.95	27.47	16.8	33.5	283	85	P	H
	*	2412	88.62	-	-	77.85	27.47	16.8	33.5	283	85	A	H
													H
		2387.07	65.03	-8.97	74	54.44	27.32	16.76	33.49	100	149	P	V
		2390	52.59	-1.41	54	41.98	27.34	16.76	33.49	100	149	A	V
	*	2412	109.78	-	-	99.01	27.47	16.8	33.5	100	149	P	V
	*	2412	102.34	-	-	91.57	27.47	16.8	33.5	100	149	A	V
													V
802.11g CH 02 2417MHz		2388.68	59.08	-14.92	74	48.63	27.33	16.76	33.64	234	327	P	H
		2388.26	47.64	-6.36	54	37.19	27.33	16.76	33.64	234	327	A	H
	*	2417	104.88	-	-	94.21	27.5	16.81	33.64	234	327	P	H
	*	2417	97.77	-	-	87.1	27.5	16.81	33.64	234	327	A	H
													H
		2385.32	63.99	-10.01	74	53.56	27.31	16.75	33.63	197	121	P	V
		2387.98	51.65	-2.35	54	41.2	27.33	16.76	33.64	197	121	A	V
	*	2417	109.6	-	-	98.93	27.5	16.81	33.64	197	121	P	V
	*	2417	102	-	-	91.33	27.5	16.81	33.64	197	121	A	V
													V
802.11g CH 03 2422MHz		2388.26	61.63	-12.37	74	51.18	27.33	16.76	33.64	300	327	P	H
		2388.68	50.07	-3.93	54	39.62	27.33	16.76	33.64	300	327	A	H
	*	2422	106.22	-	-	95.51	27.53	16.82	33.64	300	327	P	H
	*	2422	99	-	-	88.29	27.53	16.82	33.64	300	327	A	H
													H
		2388.68	65.84	-8.16	74	55.39	27.33	16.76	33.64	138	123	P	V
		2388.68	53.04	-0.96	54	42.59	27.33	16.76	33.64	138	123	A	V
	*	2422	111.21	-	-	100.5	27.53	16.82	33.64	138	123	P	V
	*	2422	104.05	-	-	93.34	27.53	16.82	33.64	138	123	A	V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 04 2427MHz		2388.12	59.37	-14.63	74	48.92	27.33	16.76	33.64	235	326	P	H
		2388.96	47.92	-6.08	54	37.47	27.33	16.76	33.64	235	326	A	H
	*	2427	106.66	-	-	95.91	27.56	16.83	33.64	235	326	P	H
	*	2427	99.56	-	-	88.81	27.56	16.83	33.64	235	326	A	H
													H
		2387.7	62.42	-11.58	74	51.97	27.33	16.76	33.64	176	127	P	V
		2389.1	50.4	-3.6	54	39.95	27.33	16.76	33.64	176	127	A	V
	*	2427	111.12	-	-	100.37	27.56	16.83	33.64	176	127	P	V
	*	2427	103.65	-	-	92.9	27.56	16.83	33.64	176	127	A	V
													V
802.11g CH 05 2432MHz		2388.54	58.55	-15.45	74	48.1	27.33	16.76	33.64	294	326	P	H
		2389.8	48.9	-5.1	54	38.44	27.34	16.76	33.64	294	326	A	H
	*	2432	108.55	-	-	97.77	27.59	16.84	33.65	294	326	P	H
	*	2432	101.4	-	-	90.62	27.59	16.84	33.65	294	326	A	H
		2489.85	55.85	-18.15	74	44.71	27.86	16.94	33.66	294	326	P	H
		2484.53	46.93	-7.07	54	35.82	27.84	16.93	33.66	294	326	A	H
		2389.94	62.11	-11.89	74	51.65	27.34	16.76	33.64	172	126	P	V
		2389.66	53.06	-0.94	54	42.6	27.34	16.76	33.64	172	126	A	V
	*	2432	113.17	-	-	102.39	27.59	16.84	33.65	172	126	P	V
	*	2432	105.61	-	-	94.83	27.59	16.84	33.65	172	126	A	V
		2487.26	56.35	-17.65	74	45.23	27.85	16.93	33.66	172	126	P	V
		2483.55	47.89	-6.11	54	36.79	27.83	16.93	33.66	172	126	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		2389.52	56.41	-17.59	74	45.8	27.34	16.76	33.49	302	328	P	H
		2389.94	48.05	-5.95	54	37.44	27.34	16.76	33.49	302	328	A	H
	*	2437	109.13	-	-	98.19	27.62	16.84	33.52	302	328	P	H
	*	2437	101.86	-	-	90.92	27.62	16.84	33.52	302	328	A	H
		2485.72	56.1	-17.9	74	44.87	27.84	16.93	33.54	302	328	P	H
		2484.04	47.34	-6.66	54	36.11	27.84	16.93	33.54	302	328	A	H
		2387.56	63.42	-10.58	74	52.82	27.33	16.76	33.49	100	146	P	V
		2389.94	51.69	-2.31	54	41.08	27.34	16.76	33.49	100	146	A	V
	*	2437	114.39	-	-	103.45	27.62	16.84	33.52	100	146	P	V
	*	2437	107.2	-	-	96.26	27.62	16.84	33.52	100	146	A	V
		2486.91	57.99	-16.01	74	46.75	27.85	16.93	33.54	100	146	P	V
		2483.5	49.87	-4.13	54	38.65	27.83	16.93	33.54	100	146	A	V
802.11g CH 09 245MHz	*	2452	105.96	-	-	95.03	27.71	16.87	33.65	371	216	P	H
	*	2452	98.38	-	-	87.45	27.71	16.87	33.65	371	216	A	H
		2484.34	56.57	-17.43	74	45.46	27.84	16.93	33.66	371	216	P	H
		2483.56	47.36	-6.64	54	36.26	27.83	16.93	33.66	371	216	A	H
													H
	*	2452	112.15	-	-	101.22	27.71	16.87	33.65	136	70	P	V
	*	2452	104.74	-	-	93.81	27.71	16.87	33.65	136	70	A	V
		2484.64	63.28	-10.72	74	52.17	27.84	16.93	33.66	136	70	P	V
		2484.4	52.37	-1.63	54	41.26	27.84	16.93	33.66	136	70	A	V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 10 2457MHz	*	2457	105.68	-	-	94.72	27.73	16.88	33.65	259	328	P	H
	*	2457	98.12	-	-	87.16	27.73	16.88	33.65	259	328	A	H
		2483.8	57.67	-16.33	74	46.56	27.84	16.93	33.66	259	328	P	H
		2483.5	48.16	-5.84	54	37.06	27.83	16.93	33.66	259	328	A	H
													H
	*	2457	109.53	-	-	98.57	27.73	16.88	33.65	207	122	P	V
	*	2457	101.96	-	-	91	27.73	16.88	33.65	207	122	A	V
		2483.62	66.05	-7.95	74	54.95	27.83	16.93	33.66	207	122	P	V
		2483.56	52.94	-1.06	54	41.84	27.83	16.93	33.66	207	122	A	V
													V
802.11g CH 11 2462MHz	*	2462	102.34	-	-	91.23	27.75	16.89	33.53	100	143	P	H
	*	2462	94.86	-	-	83.75	27.75	16.89	33.53	100	143	A	H
		2483.64	61	-13	74	49.78	27.83	16.93	33.54	100	143	P	H
		2483.56	49.56	-4.44	54	38.34	27.83	16.93	33.54	100	143	A	H
													H
													H
	*	2462	108.53	-	-	97.42	27.75	16.89	33.53	159	142	P	V
	*	2462	101.2	-	-	90.09	27.75	16.89	33.53	159	142	A	V
		2483.6	66.72	-7.28	74	55.5	27.83	16.93	33.54	159	142	P	V
		2483.6	53.42	-0.58	54	42.2	27.83	16.93	33.54	159	142	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

[illegible]



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	43.69	-30.31	74	66.76	32.65	11.01	66.73	107	53	P	H
		7311	61.32	-12.68	74	76.19	36.98	13.53	65.38	212	240	P	H
		7311	50.27	-3.73	54	65.14	36.98	13.53	65.38	212	240	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4874	46.96	-27.04	74	70.03	32.65	11.01	66.73	100	126	P	V
		7311	54.45	-19.55	74	69.32	36.98	13.53	65.38	203	164	P	V
		7311	43.41	-10.59	54	58.28	36.98	13.53	65.38	203	164	A	V
													V
													V
													V
													V
													V
													V
													V

[illegible]



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		2387.28	58.24	-15.76	74	47.65	27.32	16.76	33.49	273	315	P	H
		2389.695	47.01	-6.99	54	36.4	27.34	16.76	33.49	273	315	A	H
	*	2412	103.24	-	-	92.47	27.47	16.8	33.5	273	315	P	H
	*	2412	95.95	-	-	85.18	27.47	16.8	33.5	273	315	A	H
													H
		2389.59	66.1	-7.9	74	55.49	27.34	16.76	33.49	288	76	P	V
		2388.225	51.99	-2.01	54	41.39	27.33	16.76	33.49	288	76	A	V
	*	2412	110.59	-	-	99.82	27.47	16.8	33.5	288	76	P	V
	*	2412	102.52	-	-	91.75	27.47	16.8	33.5	288	76	A	V
													V
802.11n HT20 CH 02 2417MHz		2388.82	58.26	-15.74	74	47.81	27.33	16.76	33.64	234	324	P	H
		2389.24	47.81	-6.19	54	37.35	27.34	16.76	33.64	234	324	A	H
	*	2417	105.76	-	-	95.09	27.5	16.81	33.64	234	324	P	H
	*	2417	98.68	-	-	88.01	27.5	16.81	33.64	234	324	A	H
													H
		2387.98	65.09	-8.91	74	54.64	27.33	16.76	33.64	196	121	P	V
		2389.94	51.7	-2.3	54	41.24	27.34	16.76	33.64	196	121	A	V
	*	2417	110.42	-	-	99.75	27.5	16.81	33.64	196	121	P	V
	*	2417	103.23	-	-	92.56	27.5	16.81	33.64	196	121	A	V
													V
802.11n HT20 CH 03 2422MHz		2389.1	60.1	-13.9	74	49.65	27.33	6.73	33.64	399	103	P	H
		2389.24	46.78	-7.22	54	36.32	27.34	6.73	33.64	399	103	A	H
	*	2422	104.49	-	-	93.78	27.53	6.79	33.64	399	103	P	H
	*	2422	97.16	-	-	86.45	27.53	6.79	33.64	399	103	A	H
													H
		2388.96	65.85	-8.15	74	55.4	27.33	6.73	33.64	142	104	P	V
		2388.54	51.63	-2.37	54	41.18	27.33	6.73	33.64	142	104	A	V
	*	2422	110.47	-	-	99.76	27.53	6.79	33.64	142	104	P	V
	*	2422	103.35	-	-	92.64	27.53	6.79	33.64	142	104	A	V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 04 2427MHz		2387.7	55.84	-18.16	74	45.39	27.33	16.76	33.64	399	104	P	H
		2389.38	46.75	-7.25	54	36.29	27.34	16.76	33.64	399	104	A	H
	*	2427	105.17	-	-	94.42	27.56	16.83	33.64	399	104	P	H
	*	2427	97.94	-	-	87.19	27.56	16.83	33.64	399	104	A	H
													H
													H
		2389.52	62.97	-11.03	74	52.51	27.34	16.76	33.64	194	141	P	V
		2389.8	51.16	-2.84	54	40.7	27.34	16.76	33.64	194	141	A	V
	*	2427	111.66	-	-	100.91	27.56	16.83	33.64	194	141	P	V
	*	2427	104.34	-	-	93.59	27.56	16.83	33.64	194	141	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2356.76	55.69	-18.31	74	45.33	27.14	16.7	33.48	335	315	P	H
		2389.94	46.58	-7.42	54	35.97	27.34	16.76	33.49	335	315	A	H
	*	2437	107.2	-	-	96.26	27.62	16.84	33.52	335	315	P	H
	*	2437	100	-	-	89.06	27.62	16.84	33.52	335	315	A	H
		2496.85	55.92	-18.08	74	44.63	27.89	16.95	33.55	335	315	P	H
		2490.97	46.73	-7.27	54	35.48	27.86	16.94	33.55	335	315	A	H
		2389.38	62.45	-11.55	74	51.84	27.34	16.76	33.49	280	76	P	V
		2389.8	50.63	-3.37	54	40.02	27.34	16.76	33.49	280	76	A	V
	*	2437	113.93	-	-	102.99	27.62	16.84	33.52	280	76	P	V
	*	2437	106.88	-	-	95.94	27.62	16.84	33.52	280	76	A	V
		2484.53	57.99	-16.01	74	46.76	27.84	16.93	33.54	280	76	P	V
		2484.18	48.7	-5.3	54	37.47	27.84	16.93	33.54	280	76	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 09 2452MHz	*	2452	104.72	-	-	93.79	27.71	16.87	33.65	386	103	P	H
	*	2452	97.06	-	-	86.13	27.71	16.87	33.65	386	103	A	H
		2483.92	58.94	-15.06	74	47.83	27.84	16.93	33.66	386	103	P	H
		2483.68	48.22	-5.78	54	37.12	27.83	16.93	33.66	386	103	A	H
													H
	*	2452	112	-	-	101.07	27.71	16.87	33.65	136	100	P	V
	*	2452	104.57	-	-	93.64	27.71	16.87	33.65	136	100	A	V
		2485.12	63.12	-10.88	74	52.01	27.84	16.93	33.66	136	100	P	V
		2484.1	53.57	-0.43	54	42.46	27.84	16.93	33.66	136	100	A	V
													V
802.11n HT20 CH 10 2452MHz	*	2457	105.95	-	-	94.99	27.73	16.88	33.65	259	327	P	H
	*	2457	98.48	-	-	87.52	27.73	16.88	33.65	259	327	A	H
		2483.5	63.07	-10.93	74	51.97	27.83	16.93	33.66	259	327	P	H
		2483.68	49.53	-4.47	54	38.43	27.83	16.93	33.66	259	327	A	H
													H
													H
	*	2457	110.38	-	-	99.42	27.73	16.88	33.65	179	119	P	V
	*	2457	102.72	-	-	91.76	27.73	16.88	33.65	179	119	A	V
		2483.92	66.8	-7.2	74	55.69	27.84	16.93	33.66	179	119	P	V
		2483.74	52.22	-1.78	54	41.12	27.83	16.93	33.66	179	119	A	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	*	2462	102.4	-	-	91.29	27.75	16.89	33.53	288	316	P	H
	*	2462	94.51	-	-	83.4	27.75	16.89	33.53	288	316	A	H
		2484.4	61.22	-12.78	74	49.99	27.84	16.93	33.54	288	316	P	H
		2486.24	47.92	-6.08	54	36.69	27.84	16.93	33.54	288	316	A	H
													H
													H
	*	2462	110.18	-	-	99.07	27.75	16.89	33.53	311	80	P	V
	*	2462	101.83	-	-	90.72	27.75	16.89	33.53	311	80	A	V
		2483.52	66.57	-7.43	74	55.35	27.83	16.93	33.54	311	80	P	V
		2483.92	52.34	-1.66	54	41.11	27.84	16.93	33.54	311	80	A	V
													V
													V
Remark	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. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	40.66	-33.34	74	64.11	32.44	10.91	66.8	-	-	P	H
													H
													H
													H
													H
													H
		4824	39.94	-34.06	74	63.39	32.44	10.91	66.8	-	-	P	V
													V
													V
													V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	42.19	-31.81	74	65.26	32.65	11.01	66.73	-	-	P	H
		7311	58.3	-15.7	74	73.17	36.98	13.53	65.38	218	239	P	H
		7311	47.82	-6.18	54	62.69	36.98	13.53	65.38	218	239	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4874	46.62	-27.38	74	69.69	32.65	11.01	66.73	100	217	P	V
		7311	47.28	-26.72	74	62.15	36.98	13.53	65.38	-	-	P	V
													V
													V
													V
													V
													V
													V
													V

[illegible]

Emission above 18GHz

2.4GHz WIFI 802.11b (SHF)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11b SHF		22961.7	37.35	-36.65	74	39.23	38.87	12.46	53.21	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	
												H	



Emission below 1GHz

2.4GHz WIFI 802.11b (LF)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 LF		61.04	30.13	-9.87	40	46.96	11.9	1.09	29.82	-	-	P	H
		96.93	31.35	-12.15	43.5	43.81	15.89	1.36	29.71	-	-	P	H
		348.16	28.51	-17.49	46	34.66	20.56	2.67	29.38	-	-	P	H
		515	32.63	-13.37	46	34.16	24.2	3.37	29.1	-	-	P	H
		839.95	38.56	-7.44	46	33.75	29.1	4.29	28.58	-	-	P	H
		943.74	38.11	-7.89	46	30.92	30.82	4.64	28.27	-	-	P	H
													H
													H
													H
													H
													H
		61.04	33.75	-6.25	40	50.58	11.9	1.09	29.82	100	64	Q	V
		96.93	30.61	-12.89	43.5	43.07	15.89	1.36	29.71	-	-	P	V
		397.63	27.44	-18.56	46	31.83	21.91	2.94	29.24	-	-	P	V
		700.27	31.25	-14.75	46	29.28	26.7	3.9	28.63	-	-	P	V
		798.24	37.81	-8.19	46	33.91	28.24	4.19	28.53	-	-	P	V
		936.95	39.26	-6.74	46	32.5	30.42	4.64	28.3	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. 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

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical

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

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

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Margin(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Margin(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jesse Fan, Tim Lee and Wilson Wu	Temperature :	20~25°C
		Relative Humidity :	50~60%

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	
1	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

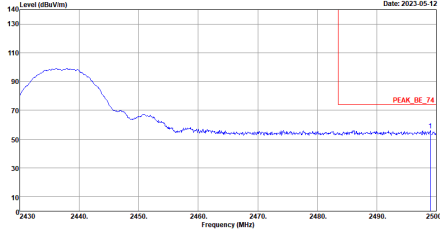
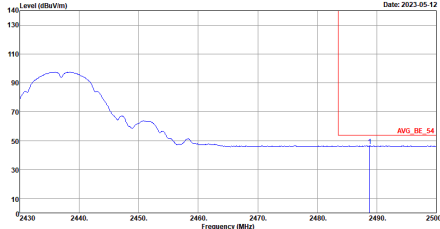


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto
	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VSW:1000KHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VSW:1000KHz SWT:Auto

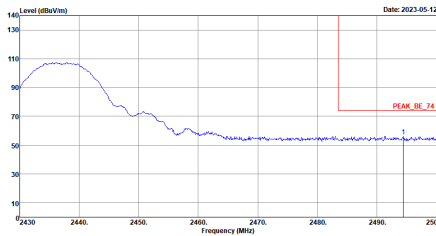
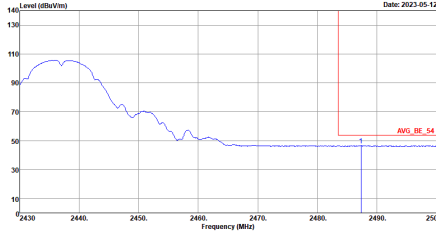


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

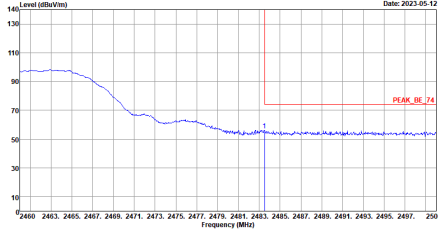
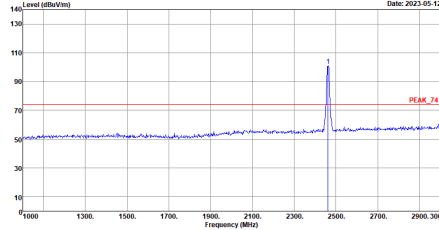
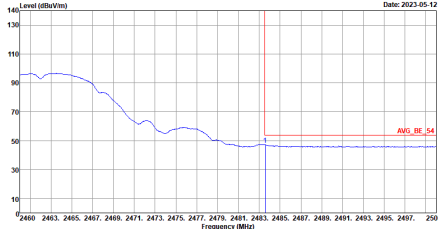
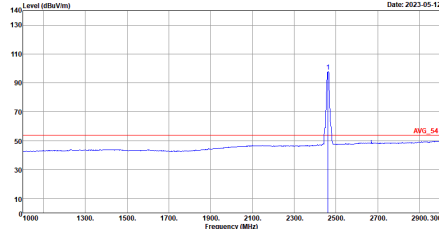


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_02114 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

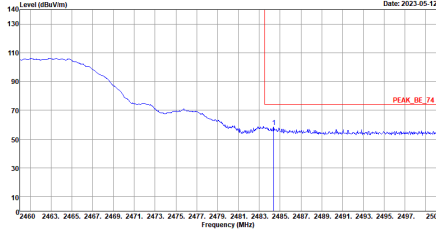
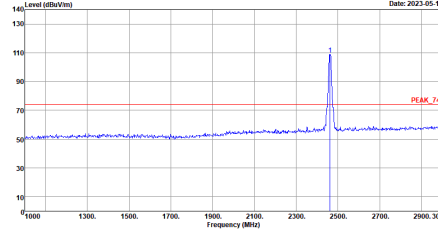
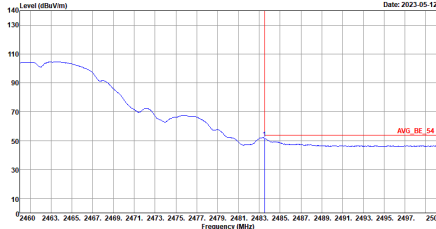
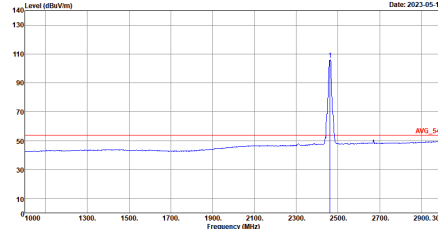


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_02114 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		



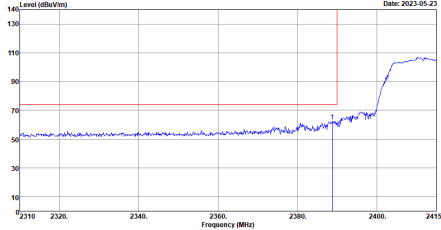
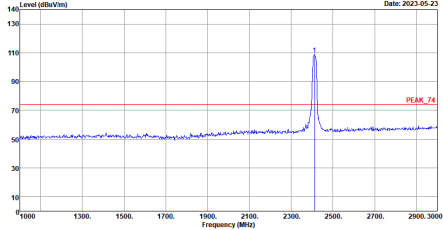
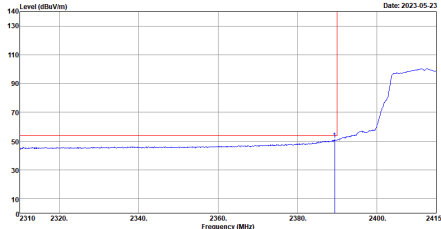
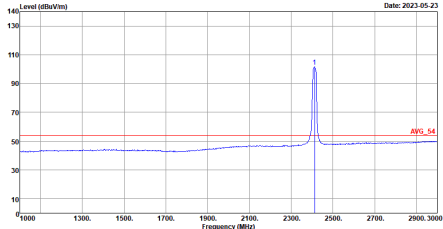
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_02114 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		



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

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

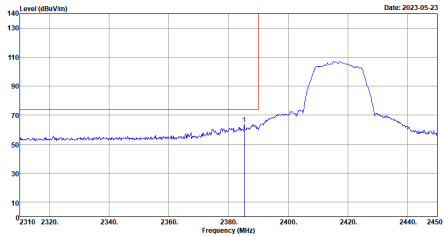
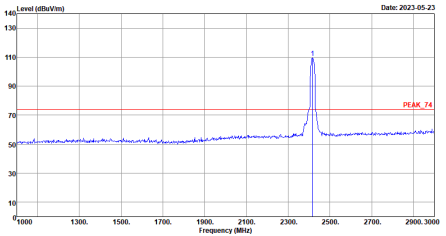
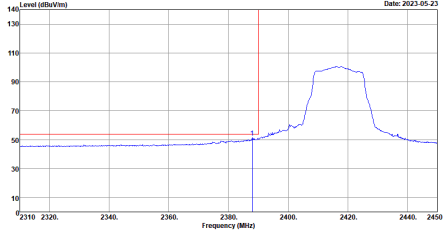
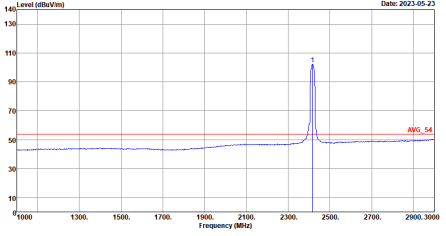


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

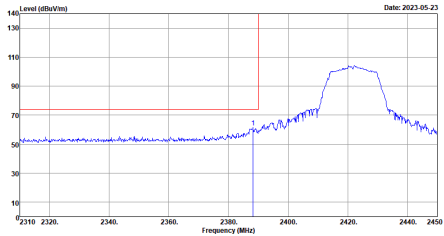
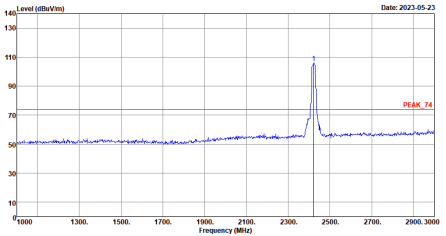
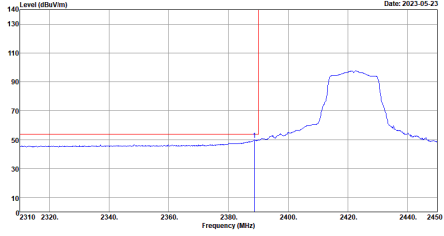
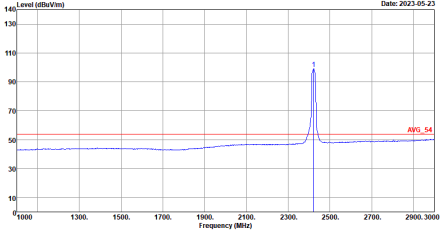


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH02 2417MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

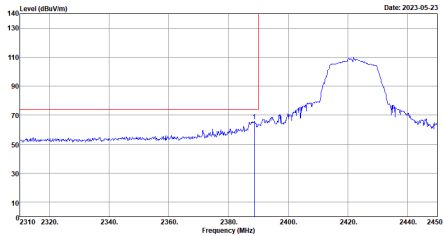
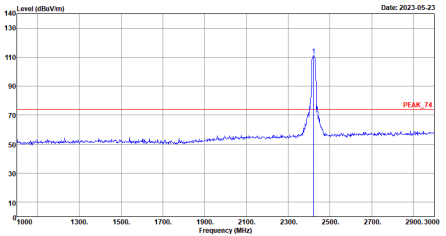
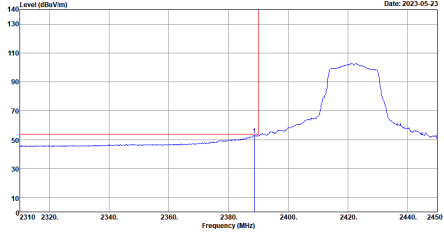
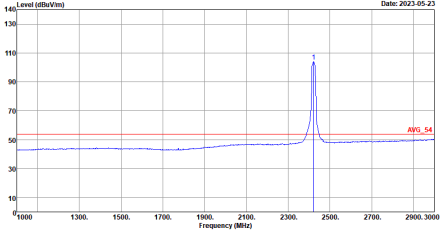


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH02 2417MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.		



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH03 2422MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.		

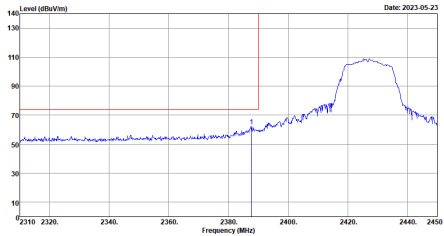
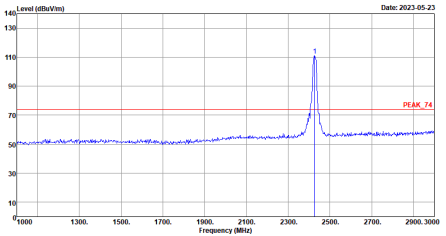
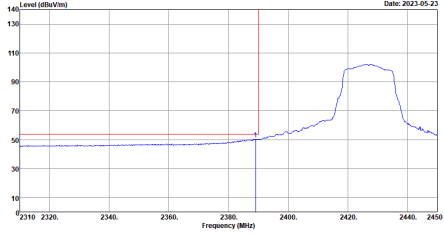
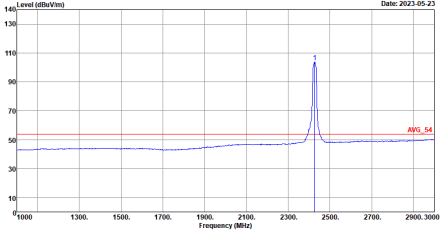


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH03 2422MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.		



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH04 2427MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.		

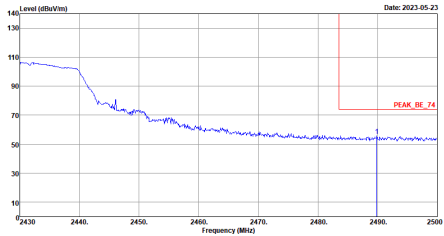
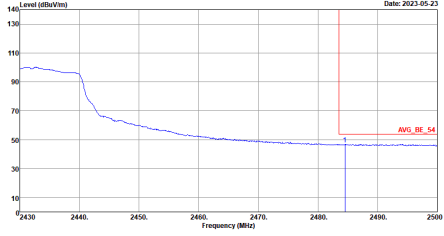


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH04 2427MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.		



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH05 2432MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto

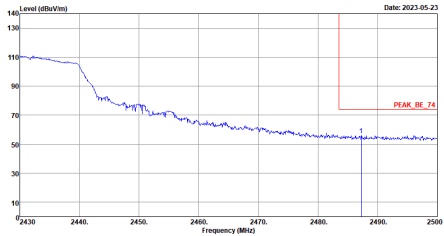
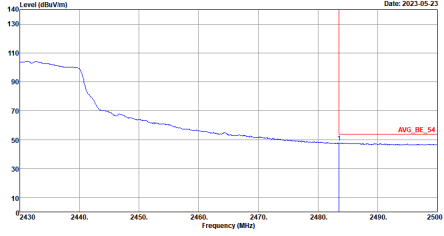


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH05 2432MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03GHZ-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VSW:3000.000kHz SWT:Auto	Left blank
Avg.	 Site : 03GHZ-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VSW:3000.000kHz SWT:Auto	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH05 2432MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

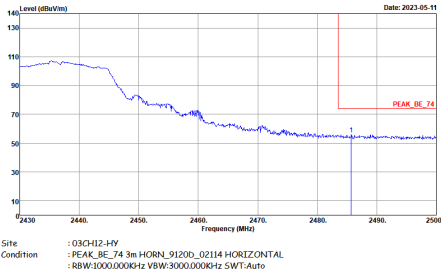
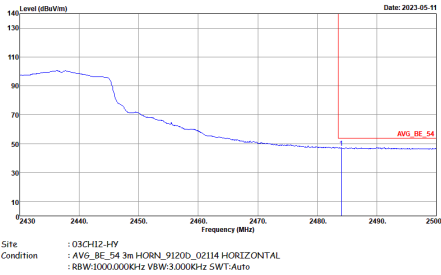


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH05 2432MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03GH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto	Left Blank
Avg.	 Site : 03GH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto	Left Blank

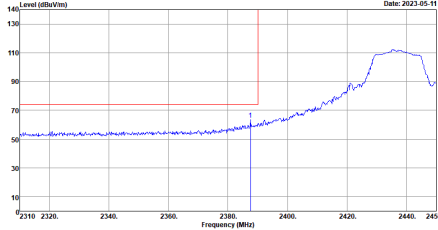
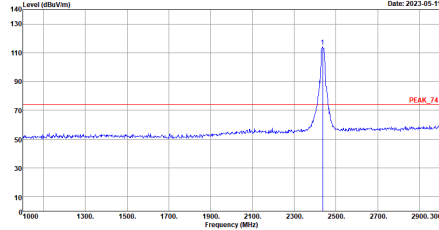
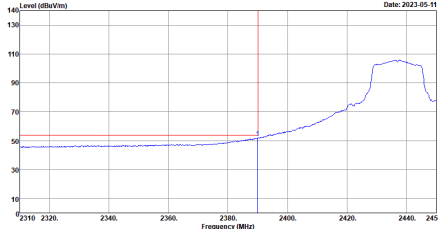
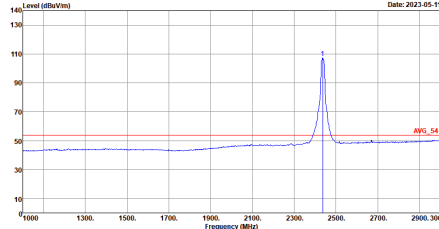


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

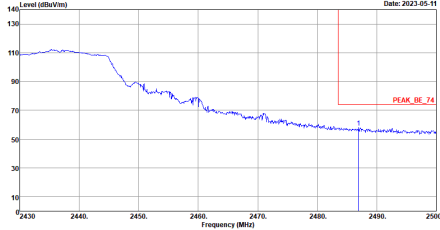
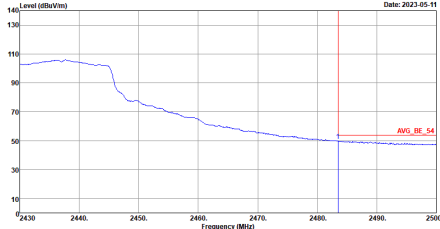


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

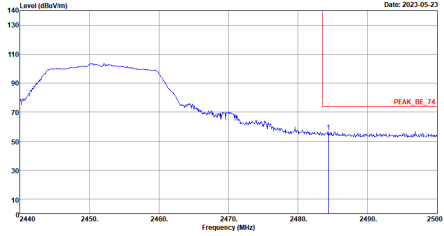
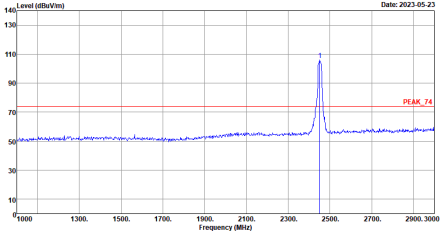
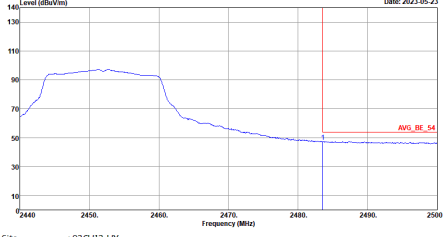
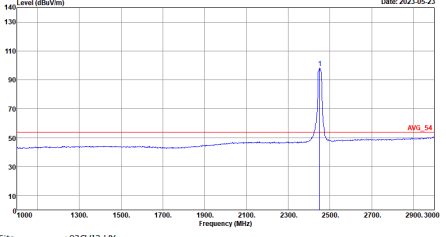


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

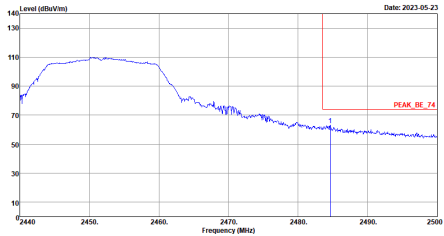
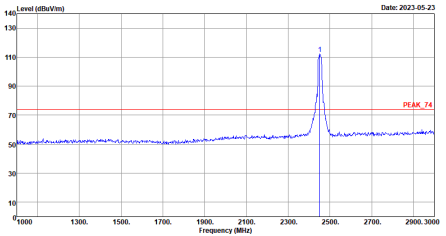
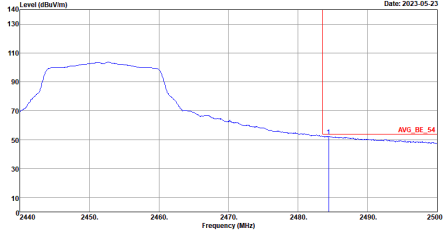
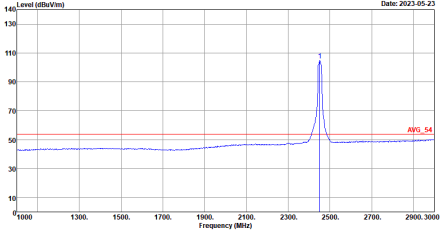


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank

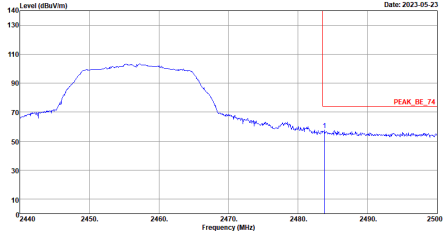
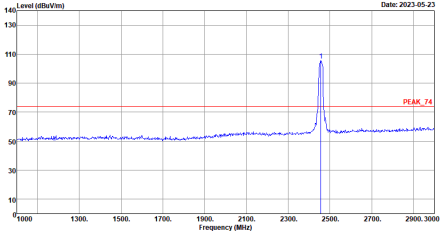
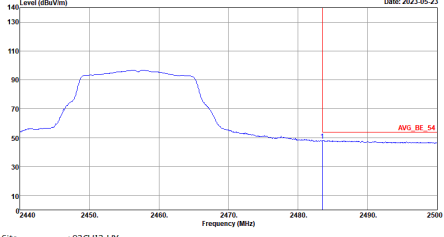
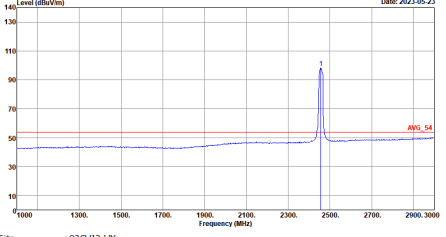


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH09 2452MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.		

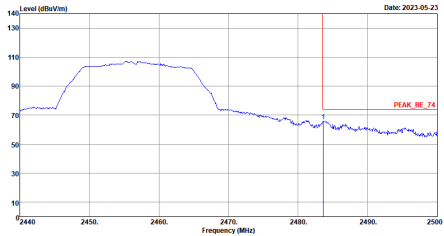
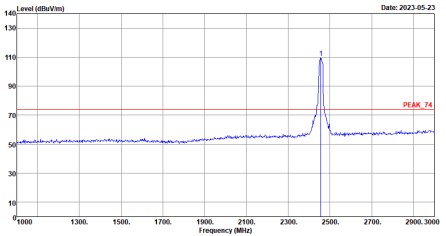
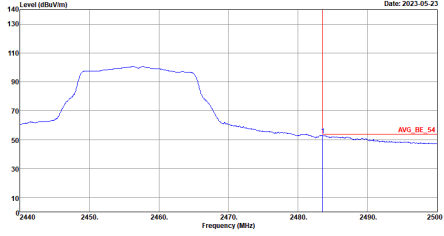
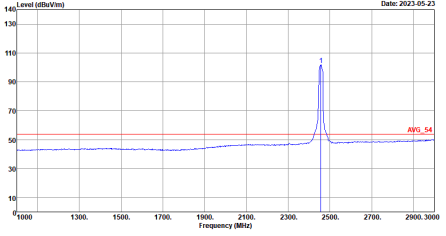


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH09 2452MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.		



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH10 2457MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.		



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH10 2457MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

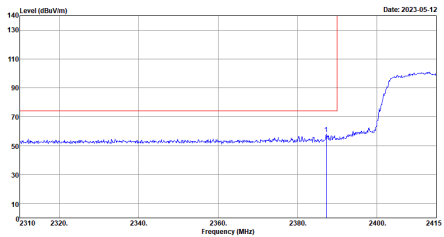
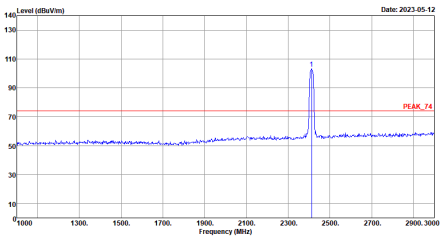
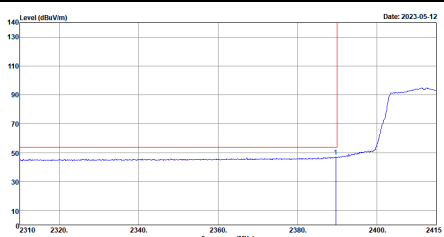
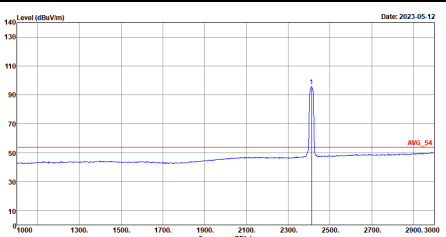


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The plot shows a signal level around 90 dBuV/m from 2400 to 2460 MHz, then dropping to about 60 dBuV/m. A red line marks the peak at 2462 MHz. The x-axis ranges from 2460 to 2500 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Level (dBuV/m) vs Frequency (MHz) plot for Fundamental polarization. The plot shows a signal level around 50 dBuV/m from 1800 to 2400 MHz, then rising to about 100 dBuV/m at 2462 MHz. A red line marks the peak at 2462 MHz. The x-axis ranges from 1800 to 3000 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The plot shows a signal level around 90 dBuV/m from 2400 to 2460 MHz, then dropping to about 60 dBuV/m. A red line marks the average at 2462 MHz. The x-axis ranges from 2460 to 2500 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto	Level (dBuV/m) vs Frequency (MHz) plot for Fundamental polarization. The plot shows a signal level around 50 dBuV/m from 1800 to 2400 MHz, then rising to about 100 dBuV/m at 2462 MHz. A red line marks the average at 2462 MHz. The x-axis ranges from 1800 to 3000 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto

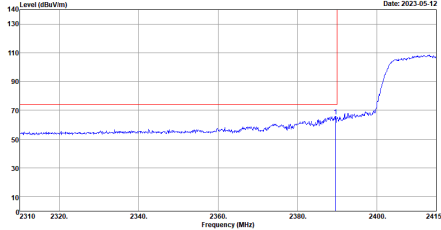
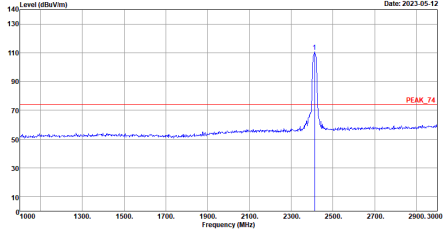
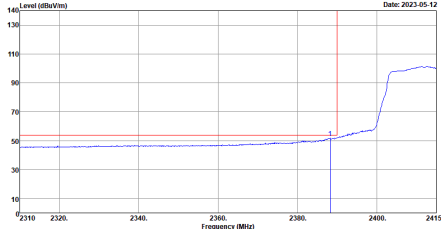
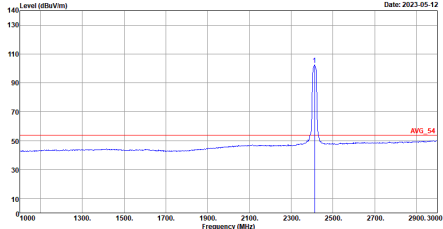


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.		

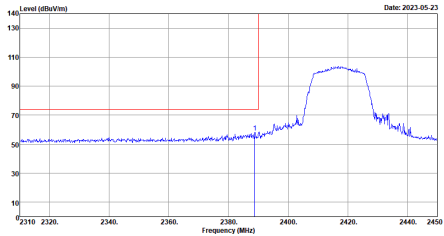
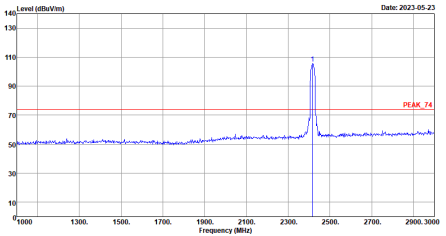
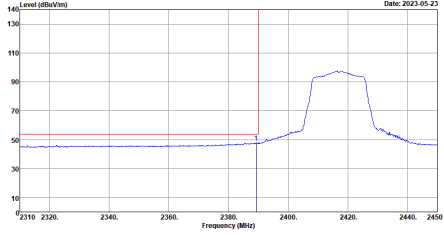
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : BBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : BBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.		

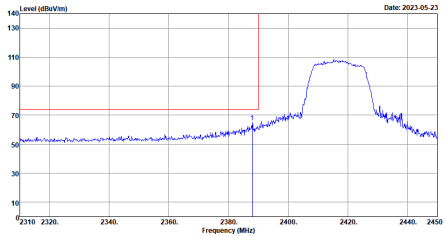
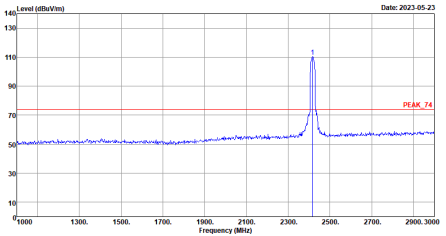
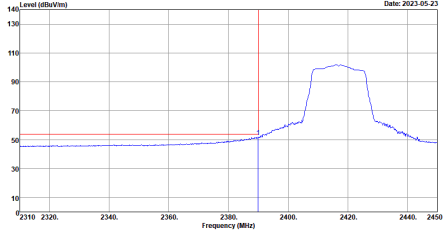
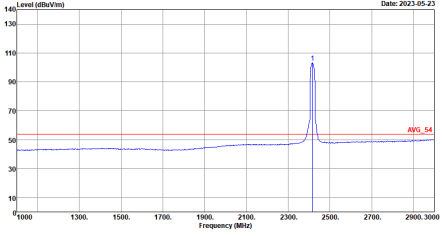


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

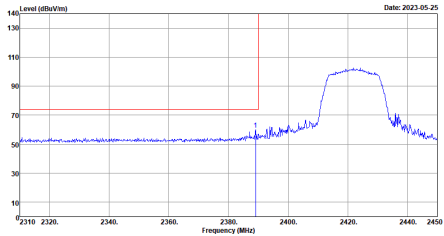
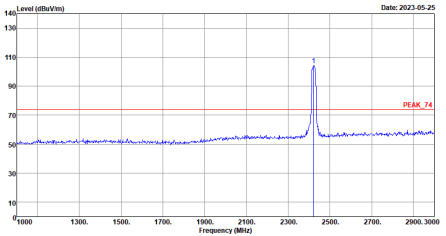
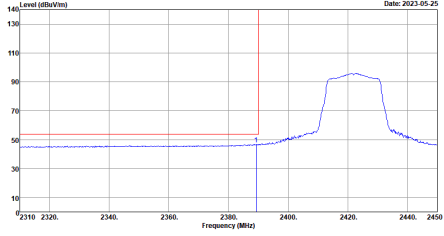
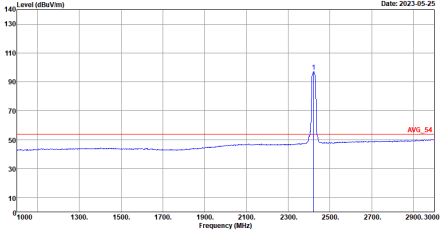


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH02 2417MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

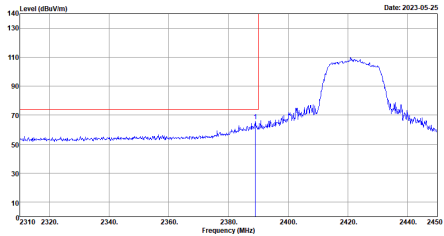
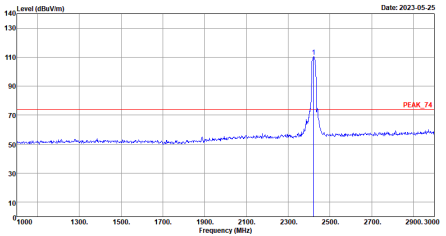
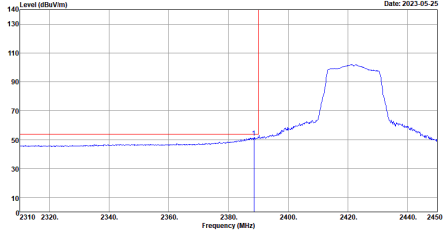
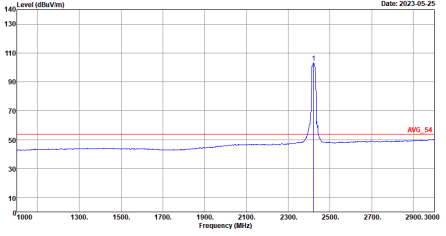


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH02 2417MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.		

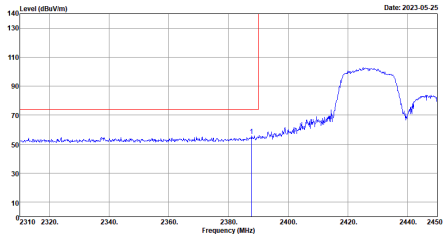
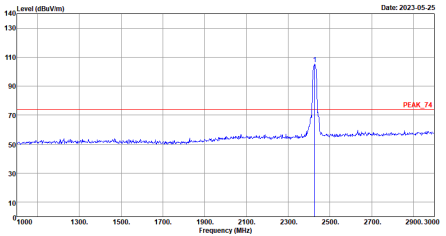
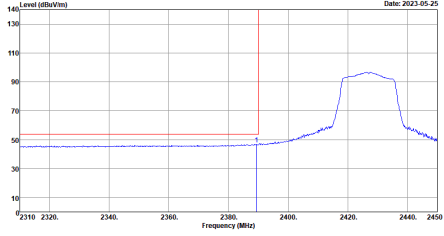
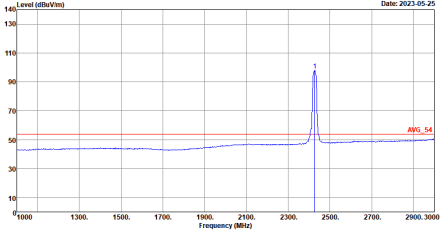


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH03 2422MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.		



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH03 2422MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.		

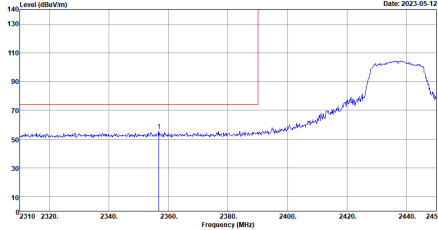
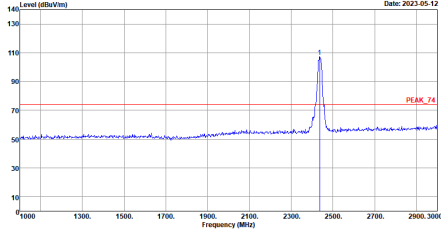
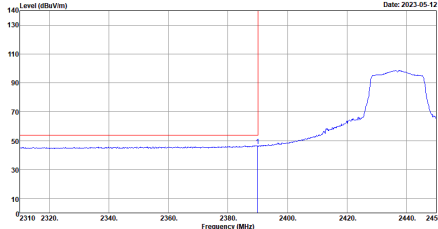
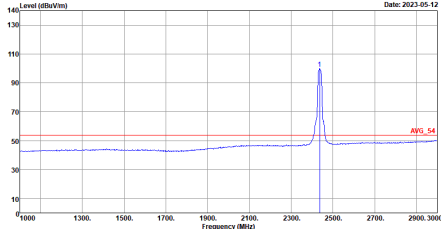


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH04 2427MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.		

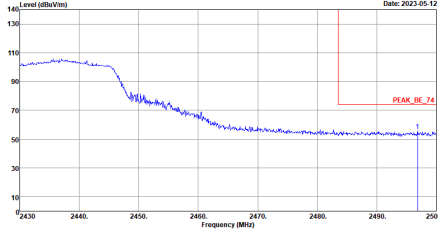
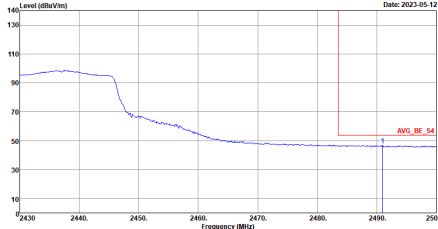


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH04 2427MHz	
1	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

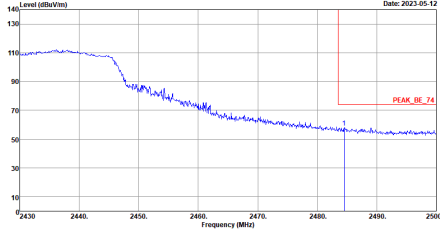
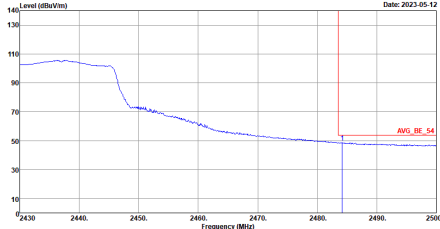


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank

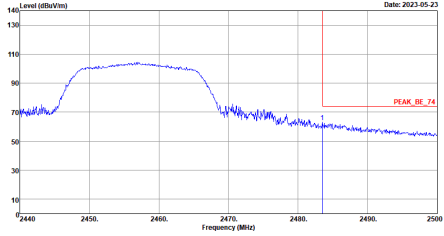
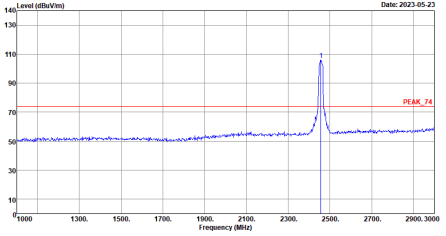
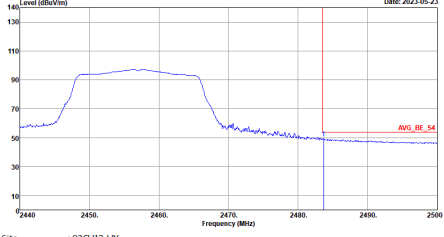
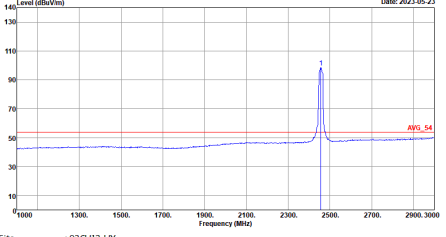


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH09 2452MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

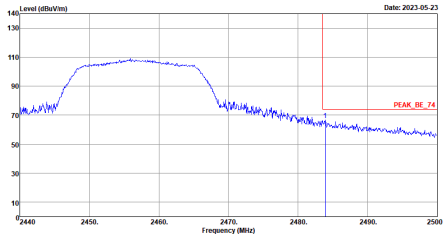
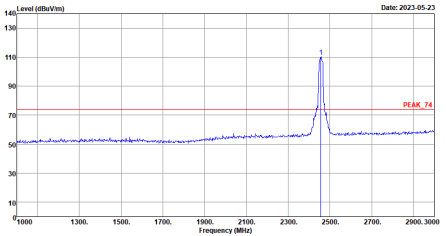
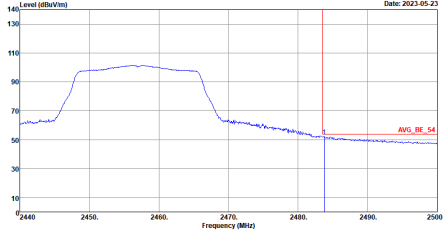
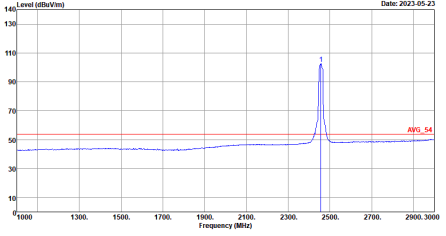


WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH09 2452MHz	
1	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH10 2457MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto
Avg.		



WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH10 2457MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.		



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	Level (dBuV/m) vs Frequency (MHz) from 2460 to 2500 MHz. The plot shows a signal level around 90 dBuV/m, dropping to a noise floor of approximately 60 dBuV/m after 2475 MHz. A red line indicates the peak level at 2462 MHz, labeled 'PEAK_BE_74'. Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBuV/m) vs Frequency (MHz) from 1800 to 3000 MHz. The plot shows a sharp peak at 2462 MHz, reaching approximately 110 dBuV/m. A red line indicates the peak level, labeled 'PEAK_74'. Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Level (dBuV/m) vs Frequency (MHz) from 2460 to 2500 MHz. The plot shows a signal level around 90 dBuV/m, dropping to a noise floor of approximately 60 dBuV/m after 2475 MHz. A red line indicates the average level at 2462 MHz, labeled 'AVG_BE_54'. Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBuV/m) vs Frequency (MHz) from 1800 to 3000 MHz. The plot shows a sharp peak at 2462 MHz, reaching approximately 110 dBuV/m. A red line indicates the average level, labeled 'AVG_54'. Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

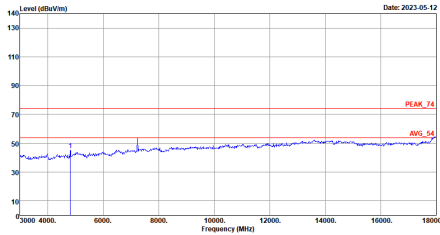
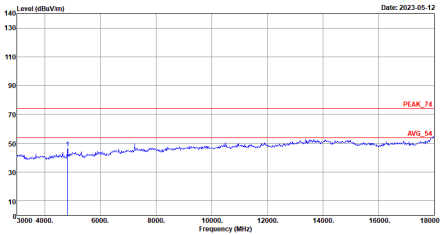


WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 HORIZONTAL	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for 14.47G. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the noise floor at approximately 50 dBuV/m. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for 14.47G. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the noise floor at approximately 50 dBuV/m. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL
	Level (dBuV/m) vs Frequency (MHz) for 17.7G. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the noise floor at approximately 50 dBuV/m. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for 17.7G. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the noise floor at approximately 50 dBuV/m. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL

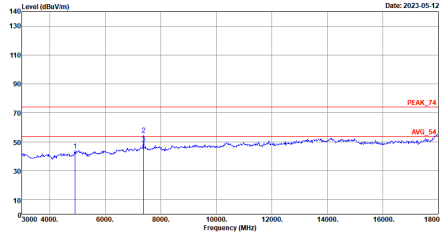
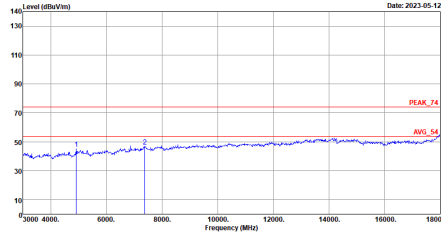


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 HORIZONTAL	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for 14.47G. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the limit at 54 dBuV/m. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for 14.47G. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the limit at 54 dBuV/m. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL
	Level (dBuV/m) vs Frequency (MHz) for 17.7G. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the limit at 54 dBuV/m. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for 17.7G. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line indicates the limit at 54 dBuV/m. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 HORIZONTAL	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : AV6_54 3m HORN_91200_02114 HORIZONTAL	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : AV6_54 3m HORN_91200_02114 VERTICAL
	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : AV6_54 3m HORN_91200_02114 HORIZONTAL	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : AV6_54 3m HORN_91200_02114 VERTICAL

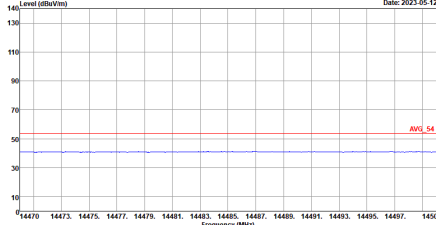
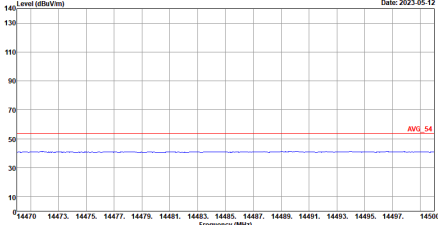
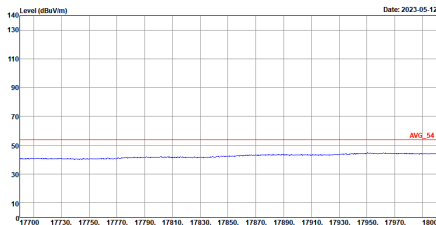
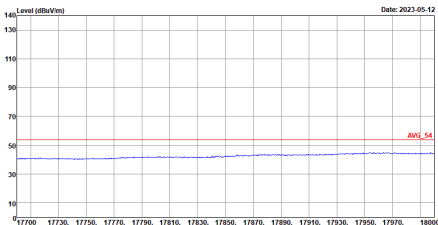


2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 HORIZONTAL	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL
	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 HORIZONTAL	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 VERTICAL

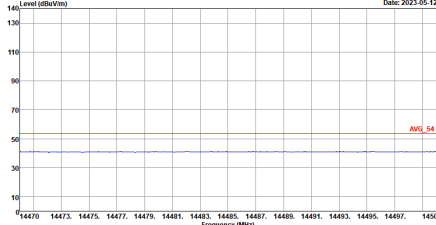
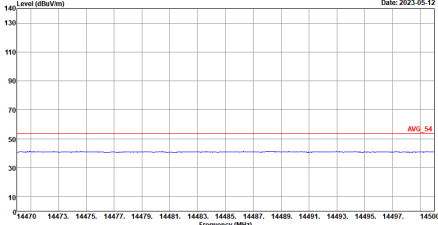
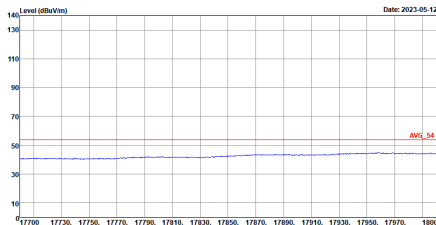
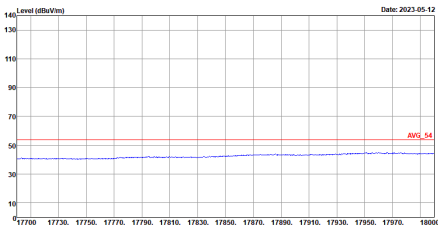


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a blue line representing the signal level and a red line labeled 'AVG_54' representing the average level. The signal level is relatively flat around 40 dBuV/m across the frequency range from 14470 to 14500 MHz. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a blue line representing the signal level and a red line labeled 'AVG_54' representing the average level. The signal level is relatively flat around 40 dBuV/m across the frequency range from 14470 to 14500 MHz. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL
	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a blue line representing the signal level and a red line labeled 'AVG_54' representing the average level. The signal level is relatively flat around 40 dBuV/m across the frequency range from 17700 to 18000 MHz. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a blue line representing the signal level and a red line labeled 'AVG_54' representing the average level. The signal level is relatively flat around 40 dBuV/m across the frequency range from 17700 to 18000 MHz. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL



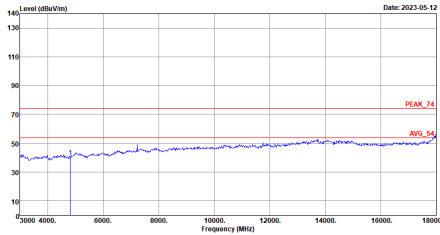
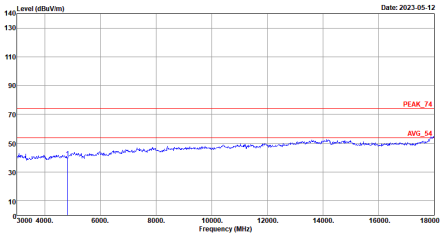
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 HORIZONTAL	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL
	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL



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	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 HORIZONTAL	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 VERTICAL

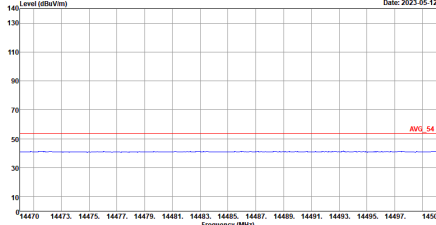
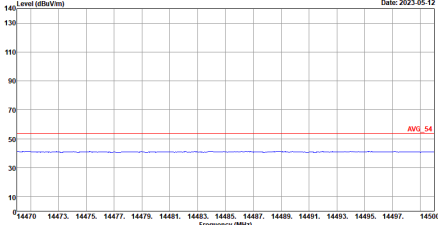
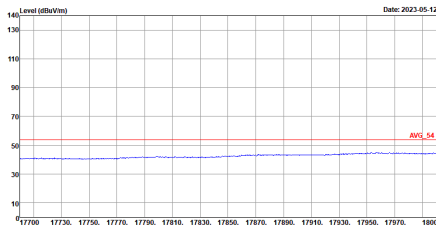
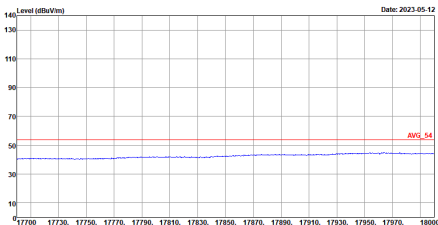


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line labeled 'AVG_54' is positioned at approximately 55 dBuV/m. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line labeled 'AVG_54' is positioned at approximately 55 dBuV/m. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL
	Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line labeled 'AVG_54' is positioned at approximately 55 dBuV/m. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line labeled 'AVG_54' is positioned at approximately 55 dBuV/m. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 HORIZONTAL	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL
	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 HORIZONTAL	Level (dBuV/m) Date: 2023-05-12 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_02114 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	Level (dBuV/m) vs Frequency (MHz) for 14.47G. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line labeled 'AVG_54' is positioned at approximately 55 dBuV/m. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for 14.47G. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line labeled 'AVG_54' is positioned at approximately 55 dBuV/m. The x-axis ranges from 14470 to 14500 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL
	Level (dBuV/m) vs Frequency (MHz) for 17.7G. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line labeled 'AVG_54' is positioned at approximately 55 dBuV/m. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL	Level (dBuV/m) vs Frequency (MHz) for 17.7G. The plot shows a blue line representing the signal level, which is relatively flat around 40 dBuV/m. A red line labeled 'AVG_54' is positioned at approximately 55 dBuV/m. The x-axis ranges from 17700 to 18000 MHz, and the y-axis ranges from 10 to 140 dBuV/m. Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL



Emission above 18GHz
2.4GHz WIFI 802.11b (SHF @ 1m)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11b SHF	
1	Horizontal	Vertical
Peak Avg.	Level (dBu/1m) Date: 2023-05-12 Site : 03CH12-HY Condition : PEAK_74 1m SHF_00991_230513 HORIZONTAL	Level (dBu/1m) Date: 2023-05-12 Site : 03CH12-HY Condition : PEAK_74 1m SHF_00991_230513 VERTICAL



Emission below 1GHz
2.4GHz WIFI 802.11b (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11b LF	
1	Horizontal	Vertical
QP / Peak	Level (dBuV/m) Date: 2023-05-12 Frequency (MHz) Site : 03CH12-HY Condition : QP 3m 81LO6_6111D_37059 HORIZONTAL	Level (dBuV/m) Date: 2023-05-12 Frequency (MHz) Site : 03CH12-HY Condition : QP 3m 81LO6_6111D_37059 VERTICAL



Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11b	96.84	2815	0.36	1kHz
1	802.11g	82.01	465	2.15	3kHz
1	2.4GHz 802.11n HT20	81.06	445	2.25	3kHz

