

Project No.: TM-2305000172P
Report No.: TMWK2307002174KR

FCC ID: 2AKZA-IW416
IC: 22364-IW416

Page: 1 / 144
Rev.: 00

RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART C

INDUSTRY CANADA RSS-247

Test Standard	FCC Part 15.247 IC RSS-247 issue 2 and IC RSS-GEN issue 5
Product name	WiFi+Bluetooth 5.2 System on Module
Brand Name	TechNexion
Model No.	PIXI-IW416
Test Result	Pass
Statements of Conformity	Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)

Approved by:



Shawn Wu
Supervisor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Report No.: TMWK2307002174KR

Page: 2 / 144
Rev.: 00

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	August 7, 2023	Initial Issue	ALL	Allison Chen



Table of contents

1.	GENERAL INFORMATION.....	4
1.1	EUT INFORMATION.....	4
1.2	EUT CHANNEL INFORMATION.....	5
1.3	ANTENNA INFORMATION.....	5
1.4	MEASUREMENT UNCERTAINTY	6
1.5	FACILITIES AND TEST LOCATION.....	7
1.6	INSTRUMENT CALIBRATION	7
1.7	SUPPORT AND EUT ACCESSORIES EQUIPMENT	9
1.8	TEST METHODOLOGY AND APPLIED STANDARDS.....	9
2.	TEST SUMMARY.....	10
3.	DESCRIPTION OF TEST MODES.....	11
3.1	THE WORST MODE OF OPERATING CONDITION	11
3.2	THE WORST MODE OF MEASUREMENT.....	12
3.3	EUT DUTY CYCLE	13
4.	TEST RESULT	14
4.1	AC POWER LINE CONDUCTED EMISSION.....	14
4.2	6DB BANDWIDTH AND OCCUPIED BANDWIDTH (99%).....	19
4.3	OUTPUT POWER MEASUREMENT	29
4.4	POWER SPECTRAL DENSITY	33
4.5	CONDUCTED BANDEDGE AND SPURIOUS EMISSION.....	39
4.6	RADIATION BANDEDGE AND SPURIOUS EMISSION.....	52
	APPENDIX 1 - PHOTOGRAPHS OF EUT	A-1



Report No.: TMWK2307002174KR

Page: 4 / 144

Rev.: 00

1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	TechNexion Ltd. 16F-5, No. 736, Zhongzheng Road, ZhongHe District, 23511, New Taipei City, Taiwan
Manufacturer	TechNexion Ltd. 16F-5, No. 736, Zhongzheng Road, ZhongHe District, 23511, New Taipei City, Taiwan
Equipment	WiFi+Bluetooth 5.2 System on Module
Model Name	PIXI-IW416
Model Discrepancy	N/A
Brand Name	TechNexion
Received Date	May 16, 2023
Date of Test	May 19 ~ June 27, 2023
Power Supply	Power from host system. (DC 3.3V)
HW Version	A1
SW Version	1.0

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

1.2 EUT CHANNEL INFORMATION

Frequency Range	802.11b/g/n HT20: 2412 MHz ~ 2462 MHz 802.11n HT40: 2422 MHz ~ 2452 MHz
Modulation Type	1. IEEE 802.11b mode: DSSS 2. IEEE 802.11g mode: OFDM 3. IEEE 802.11n HT20 mode: OFDM 4. IEEE 802.11n HT40 mode: OFDM
Number of channels	1. IEEE 802.11b mode: 11 Channels 2. IEEE 802.11g mode: 11 Channels 3. IEEE 802.11n HT20 mode: 11 Channels 4. IEEE 802.11n HT40 mode: 7 Channels

Remark:

Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 for test channels

Number of frequencies to be tested		
Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
<input type="checkbox"/> 1 MHz or less	1	Middle
<input type="checkbox"/> 1 MHz to 10 MHz	2	1 near top and 1 near bottom
<input checked="" type="checkbox"/> More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.3 ANTENNA INFORMATION

Antenna Type	<input type="checkbox"/> PCB <input checked="" type="checkbox"/> PIFA <input checked="" type="checkbox"/> Dipole <input type="checkbox"/> Coils
Antenna Gain	1. PIFA Antenna Gain: 2.5 dBi 2. Dipole Antenna Gain: 4 dBi
Brand / Model	1. PIFA Antenna: TechNexion / VM2450-25523-OOX-180 2. Dipole Antenna: TechNexion / VM2450-ASSY1005
Antenna connector	MHF

Notes:

1. The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203 and RSS-Gen §6.8.

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	± 2.213 dB
Channel Bandwidth	± 2.7 %
RF output power (Power Meter + Power sensor)	± 0.243 dB
Power Spectral density	± 2.739 dB
Conducted Bandedge	± 2.739 dB
Conducted Spurious Emission	± 2.742 dB
Radiated Emission_9kHz-30MHz	± 3.115 dB
Radiated Emission_30MHz-200MHz	± 4.071 dB
Radiated Emission_200MHz-1GHz	± 4.419 dB
Radiated Emission_1GHz-6GHz	± 5.023 dB
Radiated Emission_6GHz-18GHz	± 5.068 dB
Radiated Emission_18GHz-26GHz	± 3.349 dB
Radiated Emission_26GHz-40GHz	± 3.229 dB

Remark:

- 1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.



Report No.: TMWK2307002174KR

1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

AC Powerline Conducted Emission and Conducted:

☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

Radiated emission 9kHz to 40GHz:

☐ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

☒ No. 12, Ln. 116, Wugong 3rd Rd., Wugu Dist., New Taipei City, Taiwan 24803

CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	Tony Chao	-
Radiation	Czerny Lin	-
RF Conducted	David Li	-

Remark: The lab has been recognized as the FCC accredited lab. under the KDB 974614 D01 and is listed in the FCC pubic Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309.

1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due
Power Sensor	Anritsu	MA2411B	1911386	2022-08-08	2023-08-07
Power Sensor	Anritsu	MA2411B	1911387	2022-08-08	2023-08-07
EXA Signal Analyzer	Keysight	N9010B	MY60242460	2023-02-20	2024-02-01
Power Meter	Anritsu	ML2496A	2136002	2022-11-24	2023-11-23
Software	Radio Test Software Ver. 21 & E3-Ver: 6.11-20180413				

Remark:

- Each piece of equipment is scheduled for calibration once a year.
- N.C.R. = No Calibration Required.



Report No.: TMWK2307002174KR

Page: 8 / 144

Rev.: 00

3M 966 Chamber Test Site (966D_Radiated)					
Name of Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due
Antenna	SHWARZBECK	VULB 9168	1277	2023-01-13	2024-01-12
Pre-Amplifier	EMCI	EMC118A45SE	980820	2022-12-23	2023-12-22
Pre-Amplifier	EMCI	EMC330N	980853	2022-12-23	2023-12-22
Coaxial Cable	EMC	EMC101G-KM-K M-9000	220407+211228+ 230205	2023-03-21	2024-03-20
Signal Generator	Agilent	N9010A	MY52220817	2023-03-09	2024-03-08
Coaxial Cable	EMC	EMCCFD400	211212+211222+ 211020	2023-03-21	2024-03-20
High Pass Filter	TITAN	T04H300018000 70S01	211215-7-1	2023-02-02	2024-02-01
Thermo-Hygro Meter	EDSDS	EDS-A49	966D1	2023-05-11	2024-05-10
Pre-Amplifier	EMCI	EMC184045SE	980872	2023-01-03	2024-01-02
Horn Antenna	RF SPIN	DRH18-E	210301A18ES	2023-02-03	2024-02-02
Horn Antenna	SHWARZBECK	BBHA 9170	1134	2022-12-30	2023-12-29
Loop Antenna	SCHWARZBECK	FMZB 1513-60	1513-60-028	2022-12-27	2023-12-26
Software	e3 V9-210616c				

AC Conducted Emissions Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due
EMI Test Receiver	R&S	ESCI	100064	2023-06-07	2024-06-06
Cable	EMCI	CFD300-NL	CERF	2023-06-26	2024-06-25
LISN	TESEQ	LN2-16N	22012	2023-03-08	2024-03-07
Software	EZ-EMC(CCS-3A1-CE-wugu)				

Remark:

1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Required.



Report No.: TMWK2307002174KR

Page: 9 / 144

Rev.: 00

1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
	N/A					

Support Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
1	NB(E)	Lenovo	T460	N/A	N/A	N/A
	N/A					

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, KDB 558074, RSS-247 Issue 2 and RSS-GEN Issue 5.



Report No.: TMWK2307002174KR

Page: 10 / 144

Rev.: 00

2. TEST SUMMARY

FCC Standard Section	IC Standard Section	Report Section	Test Item	Result
15.203	RSS-GEN 6.8	1.3	Antenna Requirement	Pass
15.207(a)	RSS-GEN 8.8	4.1	AC Conducted Emission	Pass
15.247(a)(2)	RSS-247(5.2)(a)	4.2	6 dB Bandwidth	Pass
-	RSS-GEN 6.7	4.2	Occupied Bandwidth (99%)	Pass
15.247(b)	RSS-247(5.4)(d)	4.3	Output Power Measurement	Pass
15.247(e)	RSS-247(5.2)(b)	4.4	Power Spectral Density	Pass
15.247(d)	RSS-247(5.5)	4.5	Conducted Band Edge	Pass
15.247(d)	RSS-247(5.5)	4.5	Conducted Spurious Emission	Pass
15.247(d)	RSS-GEN 8.9, 8.10	4.6	Radiation Band Edge	Pass
15.247(d)	RSS-GEN 8.9, 8.10	4.6	Radiation Spurious Emission	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	IEEE 802.11b mode:1Mbps IEEE 802.11g mode:6Mbps IEEE 802.11n HT20 mode: MCS0 IEEE 802.11n HT40 mode: MCS0
Operation Transmitter	IEEE 802.11b mode: 1T1R IEEE 802.11g mode: 1T1R IEEE 802.11n HT20 mode: 1T1R IEEE 802.11n HT40 mode: 1T1R
Test Channel Frequencies	IEEE 802.11b mode: 1. Lowest Channel: 2412 MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462 MHz IEEE 802.11g mode : 1. Lowest Channel: 2412 MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462 MHz IEEE 802.11n HT20 mode : 1. Lowest Channel: 2412 MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462 MHz IEEE 802.11n HT40 mode : 1. Lowest Channel: 2422 MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2452 MHz

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.

3.2 THE WORST MODE OF MEASUREMENT

AC Power Line Conducted Emission	
Test Condition	AC Power line conducted emission for line and neutral
Power supply Mode	Mode 1: EUT power by NB. (Dipole Antenna) Mode 2: EUT power by NB. (PIFA Antenna)
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input checked="" type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by System. (Dipole Antenna) Mode 2: EUT power by System. (PIFA Antenna)
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input checked="" type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4
Worst Position	<input type="checkbox"/> Placed in fixed position. <input type="checkbox"/> Placed in fixed position at X-Plane (E2-Plane) <input type="checkbox"/> Placed in fixed position at Y-Plane (E1-Plane) <input checked="" type="checkbox"/> Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by System. (Dipole Antenna) Mode 2: EUT power by System. (PIFA Antenna)
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input checked="" type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Z-Plane) were recorded in this report
3. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.

Report No.: TMWK2307002174KR

3.3 EUT DUTY CYCLE

Temperature: 22.8~27.1°C
Humidity: 50~64% RH

Test date: May 19~June 19, 2023
Tested by: David Li

Duty Cycle				
Configuration	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	98.77	0.05	0.12	0.01
802.11g	94.44	0.25	0.58	1.00
802.11n_20	94.06	0.27	0.62	1.00
802.11n_40	88.59	0.53	1.25	2.00



Report No.: TMWK2307002174KR

4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a)(2), RSS-GEN section 8.8,

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

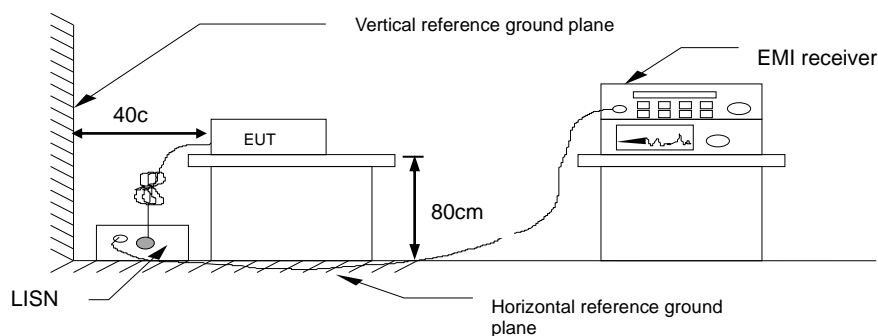
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup



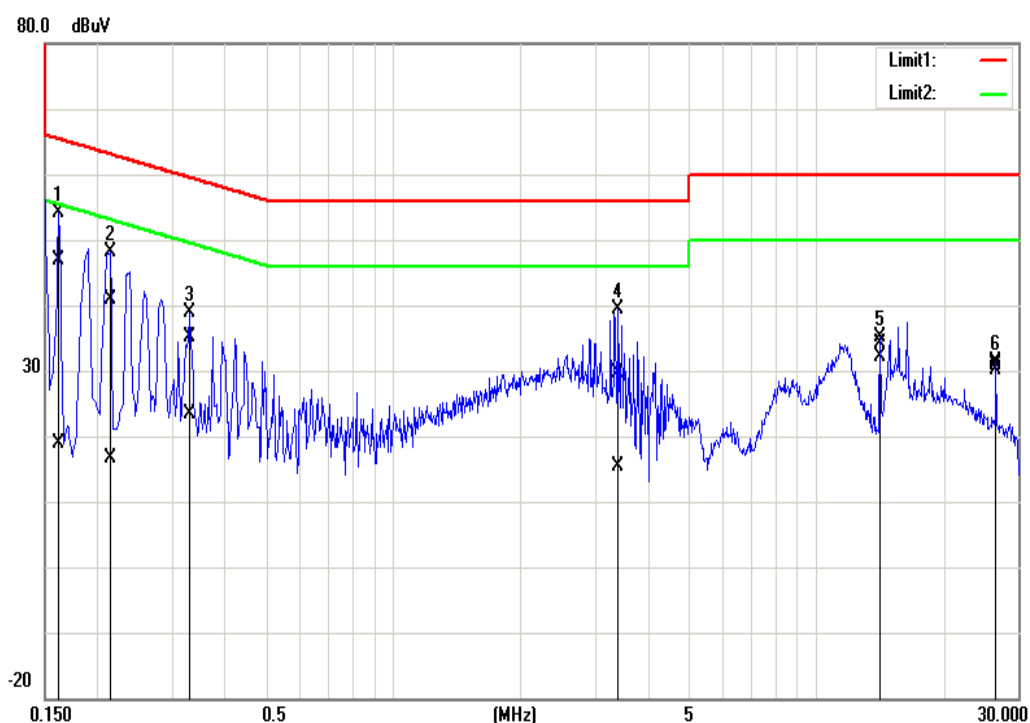
4.1.4 Test Result

Pass.

Report No.: TMWK2307002174KR

Test Data

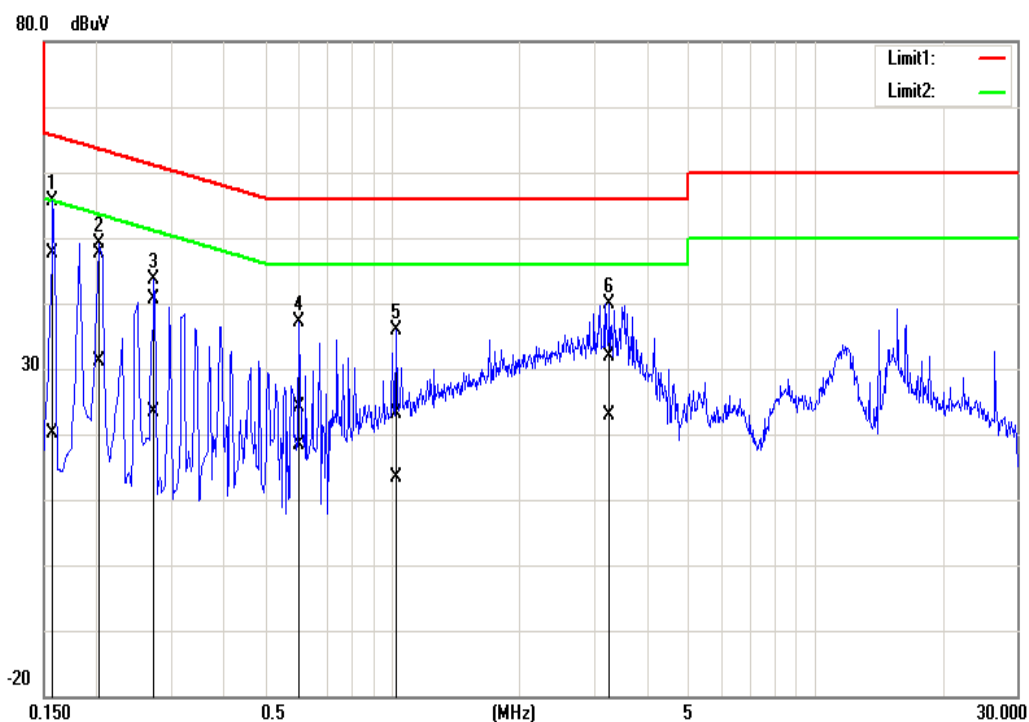
Test Mode:	Mode 1	Temp/Hum	24.3(°C)/ 61%RH
Phase:	Line	Test Date	June 27, 2023
Test Voltage:	120Vac, 60Hz	Test Engineer	Tony Chao



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (d uV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1620	46.73	18.65	0.15	46.88	18.80	65.36	55.36	-18.48	-36.56	Pass
0.2140	40.61	16.57	0.15	40.76	16.72	63.05	53.05	-22.29	-36.33	Pass
0.3300	34.89	23.19	0.15	35.04	23.34	59.45	49.45	-24.41	-26.11	Pass
3.4140	29.31	15.04	0.24	29.55	15.28	56.00	46.00	-26.45	-30.72	Pass
14.1660	33.81	31.83	0.42	34.23	32.25	60.00	50.00	-25.77	-17.75	Pass
26.6220	30.22	29.57	0.61	30.83	30.18	60.00	50.00	-29.17	-19.82	Pass

Note: 1. Correction factor = LISN loss + Cable loss.

Test Mode:	Mode 1	Temp/Hum	24.3(°C)/ 61%RH
Phase:	Neutral	Test Date	June 27, 2023
Test Voltage:	120Vac, 60Hz	Test Engineer	Tony Chao



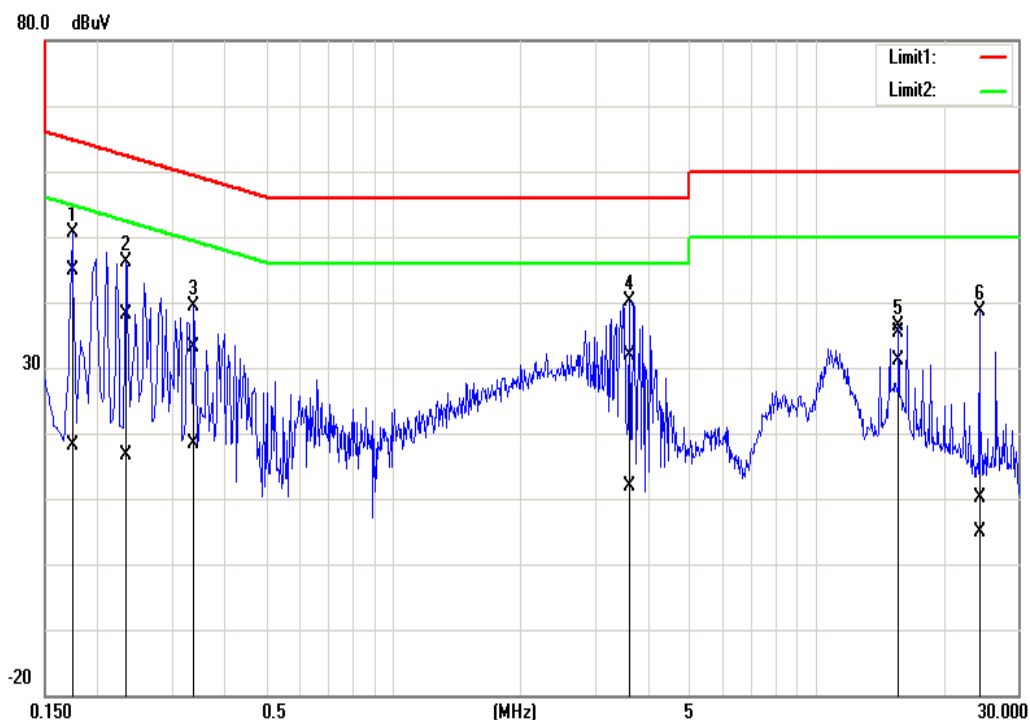
Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1580	47.55	20.04	0.20	47.75	20.24	65.57	55.57	-17.82	-35.33	Pass
0.2020	47.34	31.00	0.19	47.53	31.19	63.53	53.53	-16.00	-22.34	Pass
0.2740	40.52	23.26	0.19	40.71	23.45	61.00	51.00	-20.29	-27.55	Pass
0.6020	23.98	18.12	0.19	24.17	18.31	56.00	46.00	-31.83	-27.69	Pass
1.0260	22.87	13.28	0.21	23.08	13.49	56.00	46.00	-32.92	-32.51	Pass
3.2700	31.53	22.53	0.29	31.82	22.82	56.00	46.00	-24.18	-23.18	Pass

Note: 1. Correction factor = LISN loss + Cable loss.

Report No.: TMWK2307002174KR

Test Data

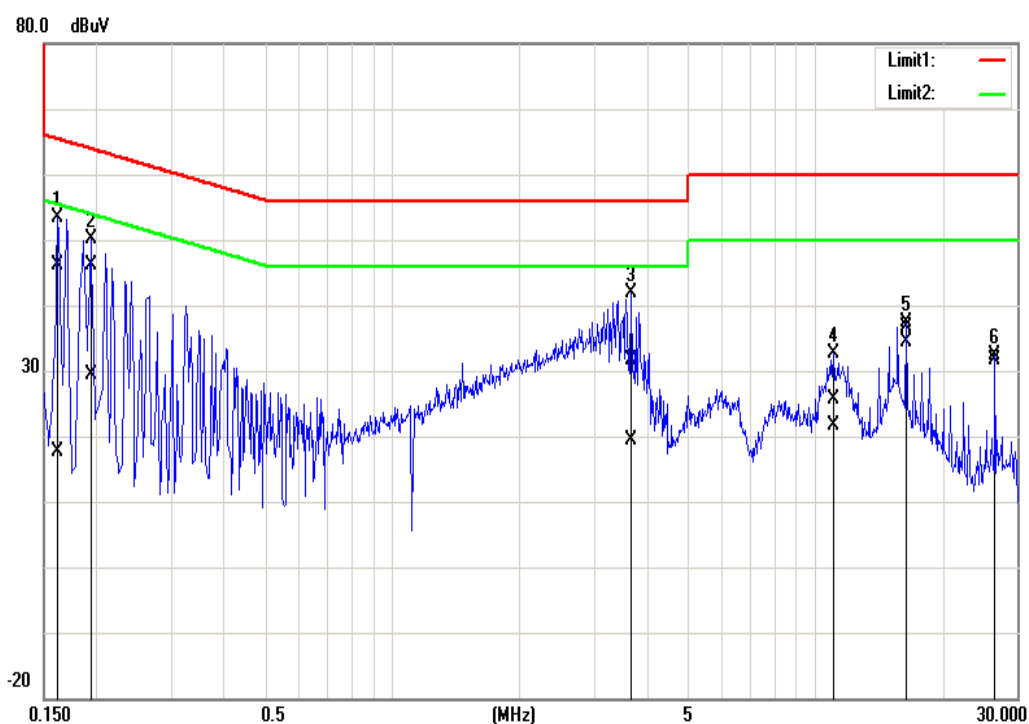
Test Mode:	Mode 2	Temp/Hum	24.3(°C)/ 61%RH
Phase:	Line	Test Date	June 27, 2023
Test Voltage:	120Vac, 60Hz	Test Engineer	Tony Chao



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (d uV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1740	44.70	18.05	0.15	44.85	18.20	64.77	54.77	-19.92	-36.57	Pass
0.2340	37.92	16.42	0.15	38.07	16.57	62.31	52.31	-24.24	-35.74	Pass
0.3380	32.88	18.14	0.15	33.03	18.29	59.25	49.25	-26.22	-30.96	Pass
3.6100	31.55	11.50	0.26	31.81	11.76	56.00	46.00	-24.19	-34.24	Pass
15.6580	34.87	30.74	0.45	35.32	31.19	60.00	50.00	-24.68	-18.81	Pass
24.2860	9.49	4.36	0.57	10.06	4.93	60.00	50.00	-49.94	-45.07	Pass

Note: 1. Correction factor = LISN loss + Cable loss.

Test Mode:	Mode 2	Temp/Hum	24.3(°C)/ 61%RH
Phase:	Neutral	Test Date	June 27, 2023
Test Voltage:	120Vac, 60Hz	Test Engineer	Tony Chao



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1620	45.86	17.39	0.20	46.06	17.59	65.36	55.36	-19.30	-37.77	Pass
0.1940	45.90	29.23	0.19	46.09	29.42	63.86	53.86	-17.77	-24.44	Pass
3.6740	31.28	19.14	0.31	31.59	19.45	56.00	46.00	-24.41	-26.55	Pass
11.0740	25.31	21.25	0.41	25.72	21.66	60.00	50.00	-34.28	-28.34	Pass
16.4100	36.06	34.01	0.47	36.53	34.48	60.00	50.00	-23.47	-15.52	Pass
26.6220	31.09	31.08	0.58	31.67	31.66	60.00	50.00	-28.33	-18.34	Pass

Note: 1. Correction factor = LISN loss + Cable loss.

Report No.: TMWK2307002174KR

4.2 6dB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

4.2.1 Test Limit

According to §15.247(a)(2), RSS-247 section 5.2(a),

6 dB Bandwidth :

Limit	Shall be at least 500kHz
-------	--------------------------

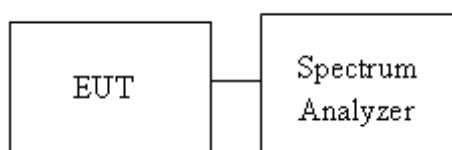
Occupied Bandwidth(99%) : For reporting purposes only.

4.2.2 Test Procedure

Test method Refer as ANSI C63.10: 2013,

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 100kHz, VBW = 300kHz and Detector = Peak, to measurement 6 dB Bandwidth.
4. SA set RBW = 1% ~ 5% OBW, VBW = three times the RBW and Detector = Peak, to measurement 99% Bandwidth
5. Measure and record the result of 6 dB Bandwidth and 99% Bandwidth. in the test report.

4.2.3 Test Setup



Report No.: TMWK2307002174KR

4.2.4 Test Result

Temperature: 22.8~27.1°C

Test date: May 19~June 19, 2023

Humidity: 50~64% RH

Tested by: David Li

Test mode: IEEE 802.11b mode / 2412-2462 MHz				
Channel	Frequency (MHz)	OBW (99%) (MHz)	6dB BW (kHz)	6dB limit (kHz)
1	2412	11.952	9153.00	≥500
6	2437	11.945	9146.00	
11	2462	11.956	9154.00	

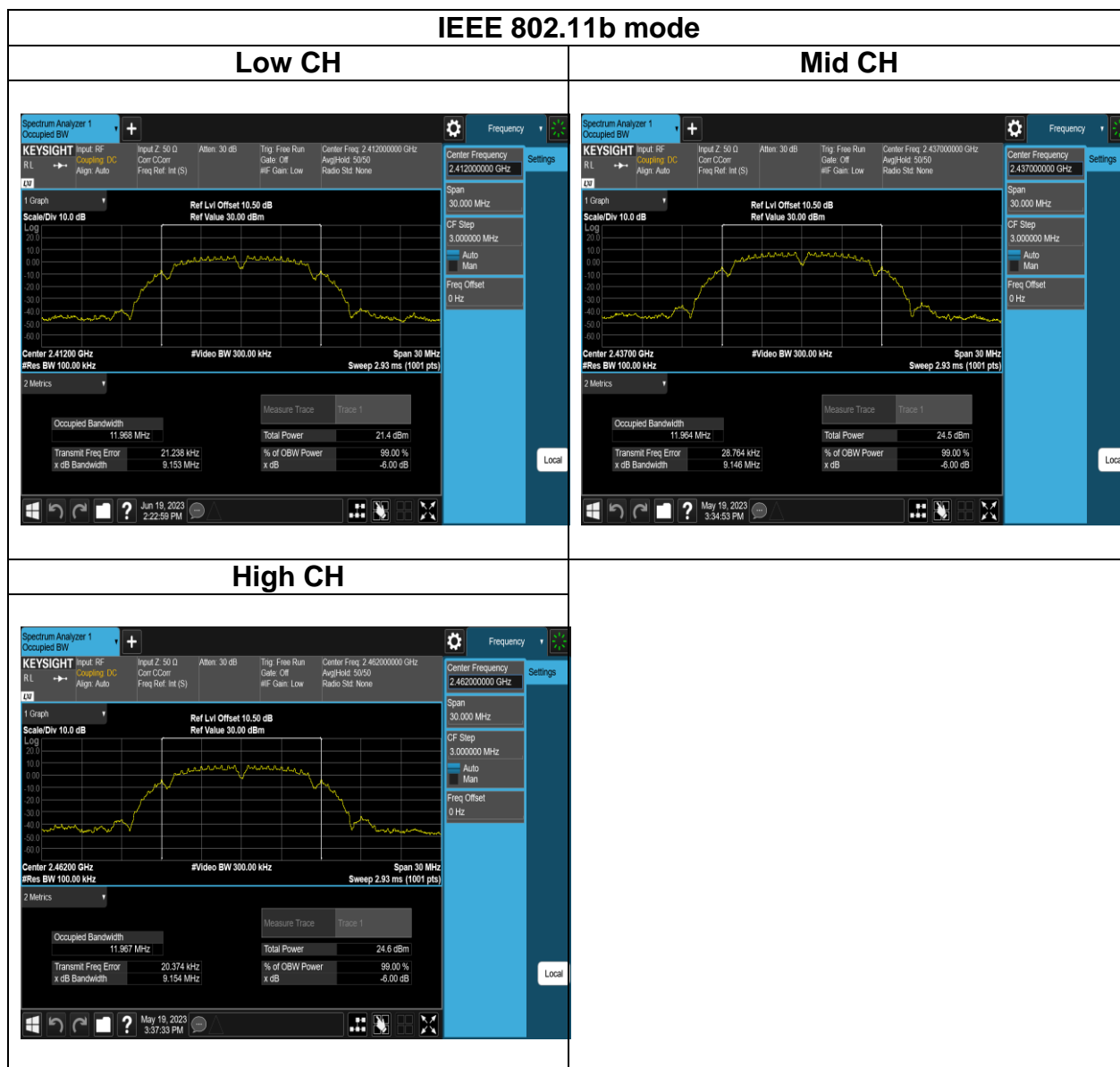
Test mode: IEEE 802.11g mode / 2412-2462 MHz				
Channel	Frequency (MHz)	OBW (99%) (MHz)	6dB BW (kHz)	6dB limit (kHz)
1	2412	16.787	16390.00	≥500
6	2437	16.793	16390.00	
11	2462	16.791	16390.00	

Test mode: IEEE 802.11n HT20 mode / 2412-2462 MHz				
Channel	Frequency (MHz)	OBW (99%) (MHz)	6dB BW (kHz)	6dB limit (kHz)
1	2412	17.708	17600.00	≥500
6	2437	17.707	17600.00	
11	2462	17.701	17580.00	

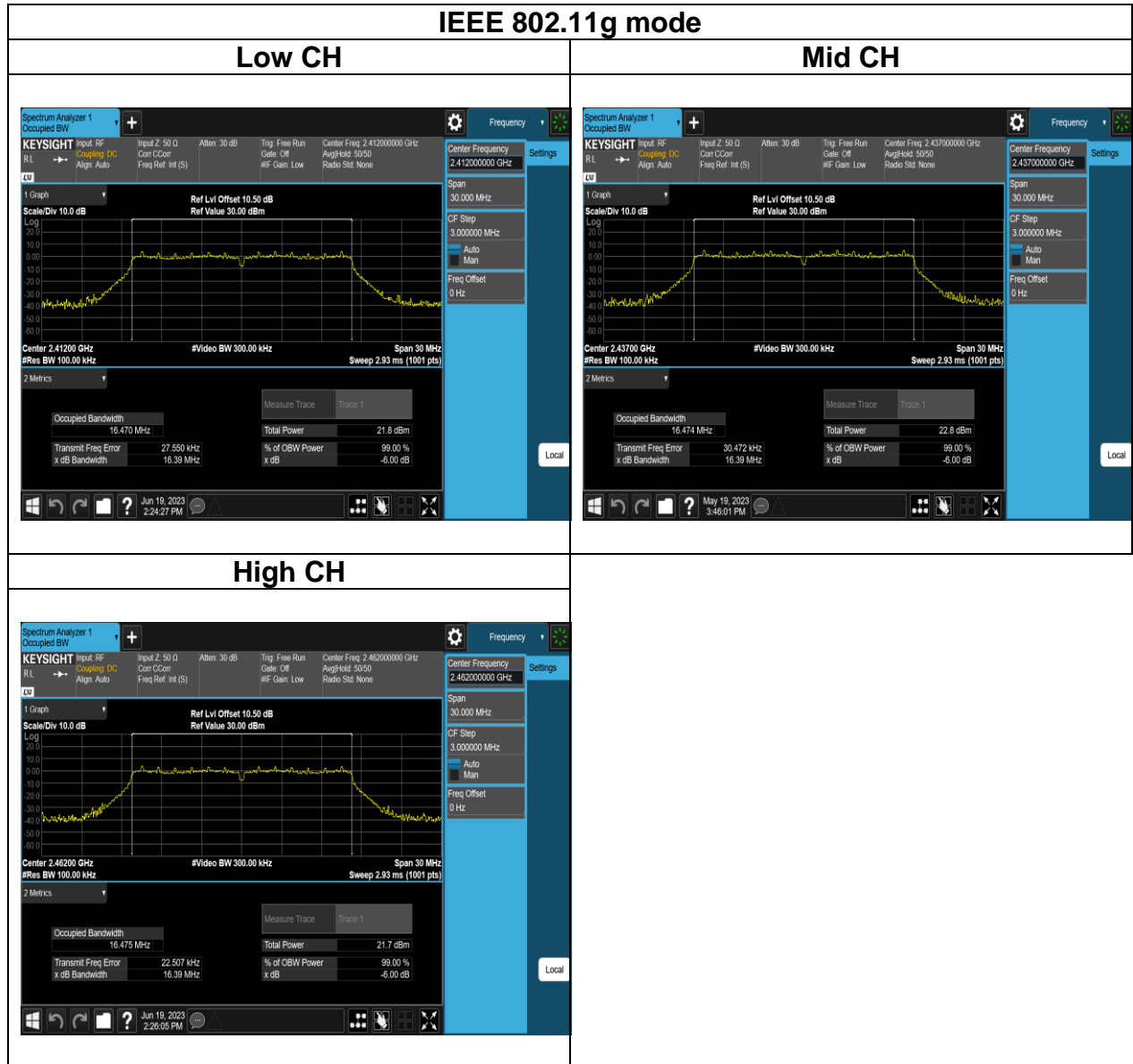
Test mode: IEEE 802.11n HT40 mode / 2422-2452 MHz				
Channel	Frequency (MHz)	OBW (99%) (MHz)	6dB BW (kHz)	6dB limit (kHz)
3	2422	37.741	35850.00	≥500
6	2437	37.747	35860.00	
9	2452	37.734	35860.00	

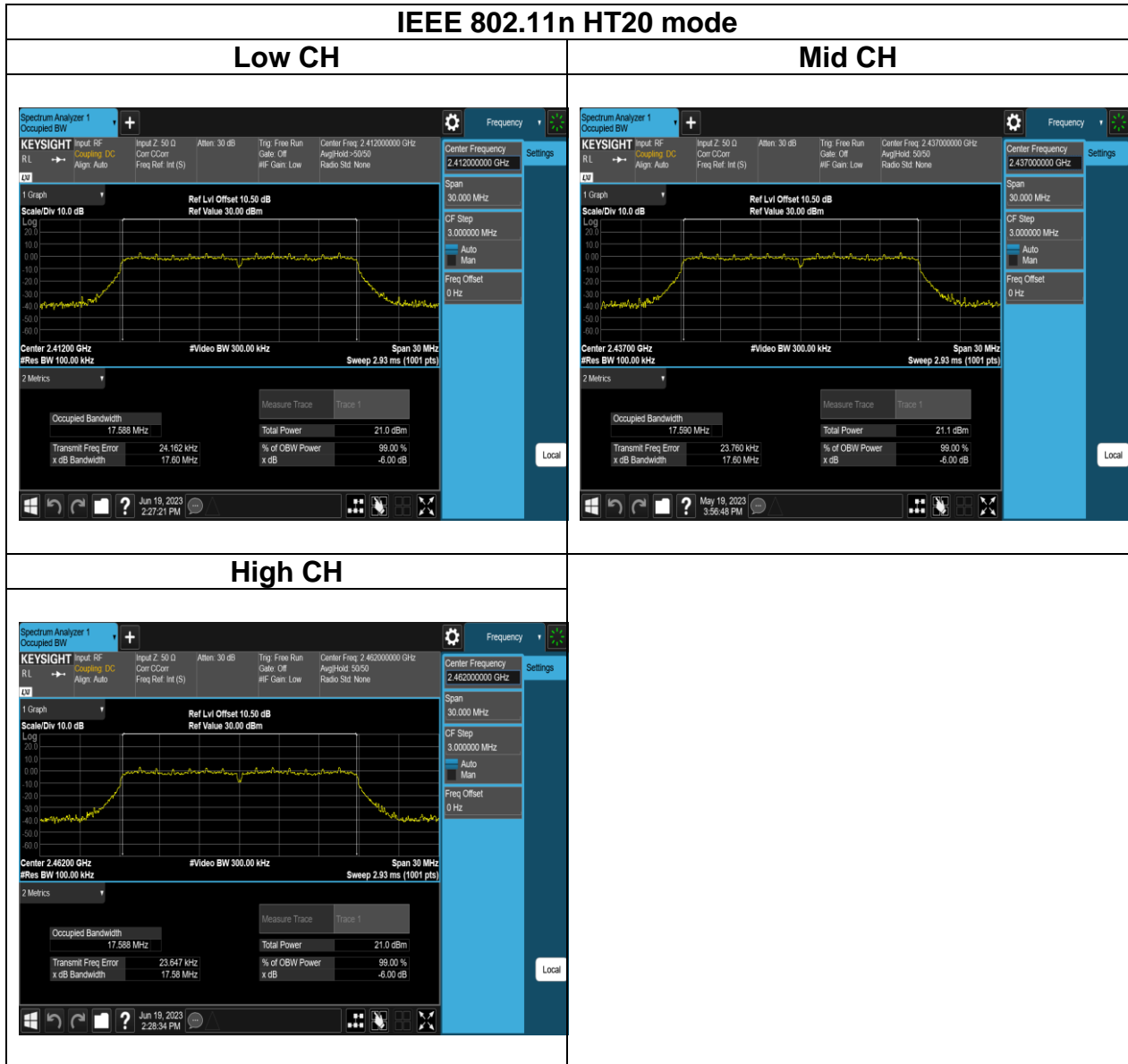
Report No.: TMWK2307002174KR

Test Data (6dB BANDWIDTH)

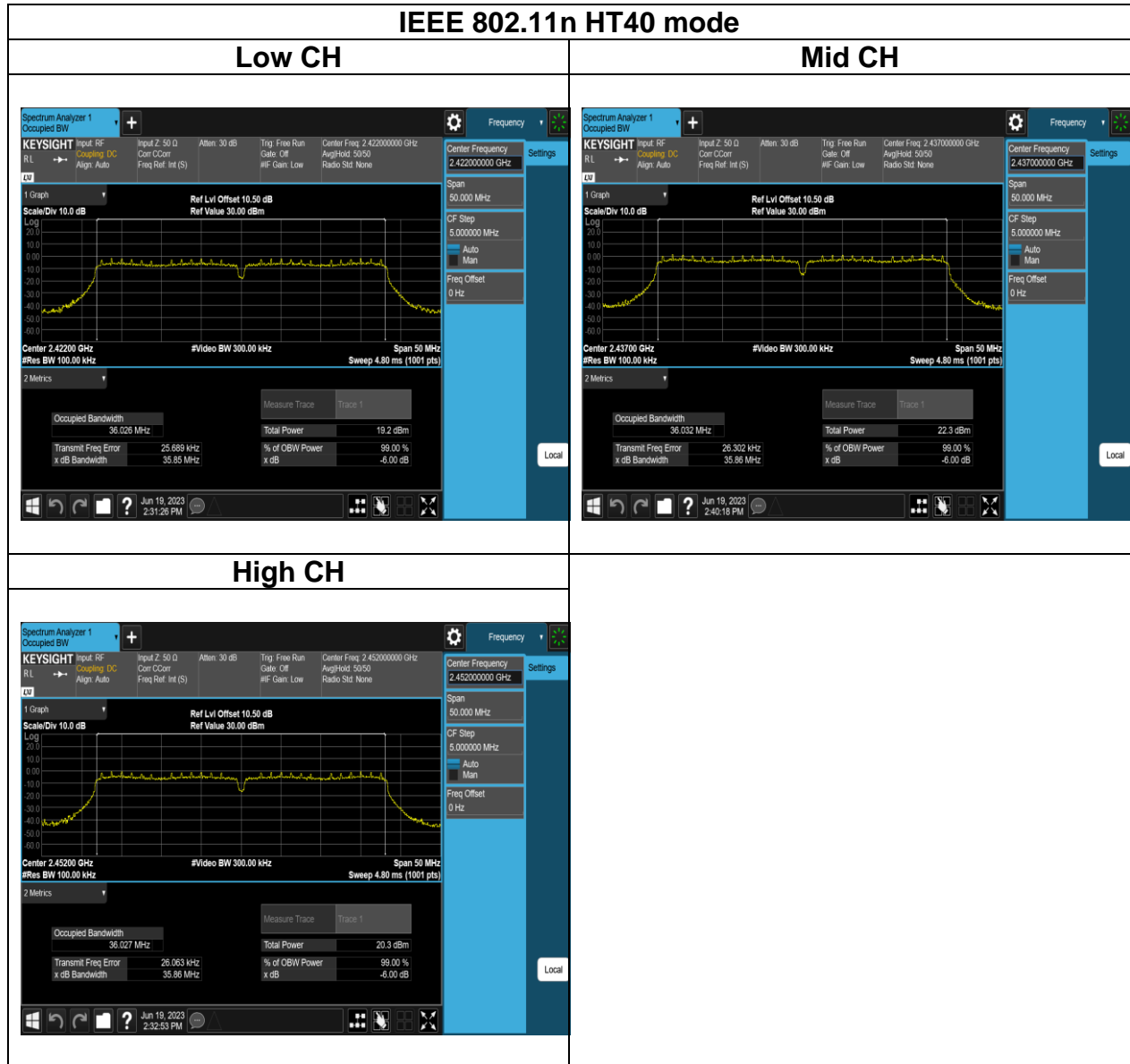


Report No.: TMWK2307002174KR



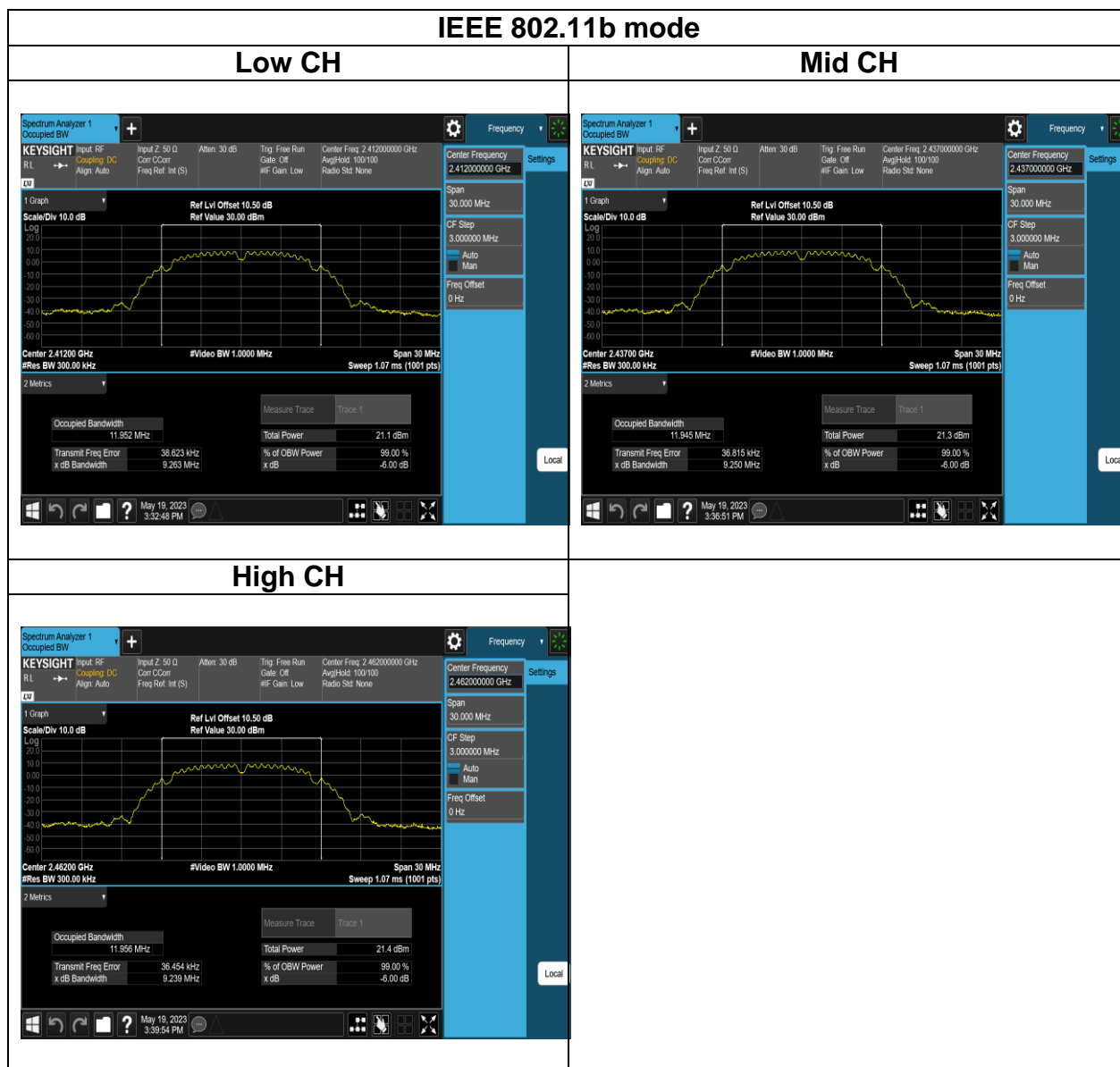


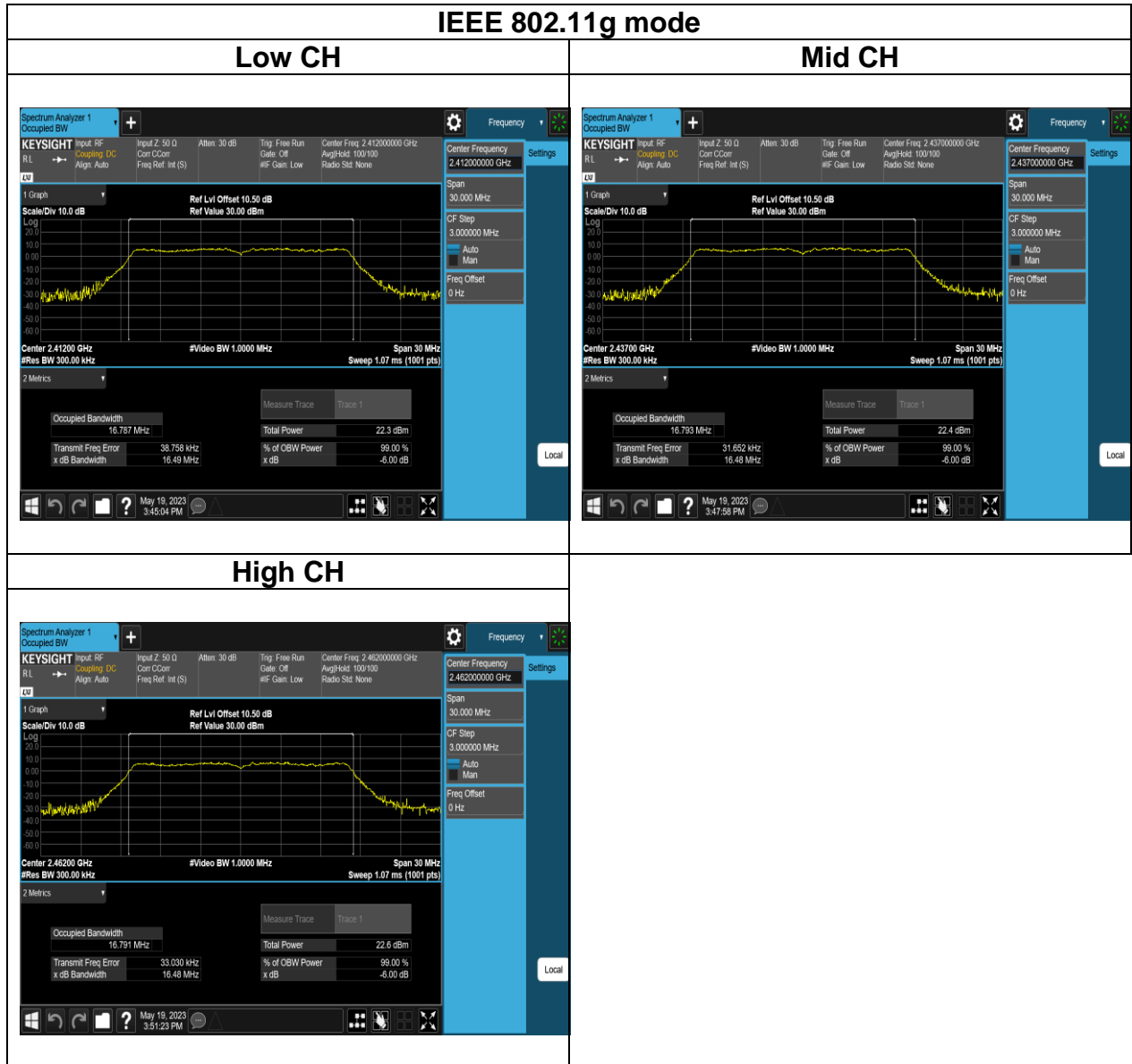
Report No.: TMWK2307002174KR



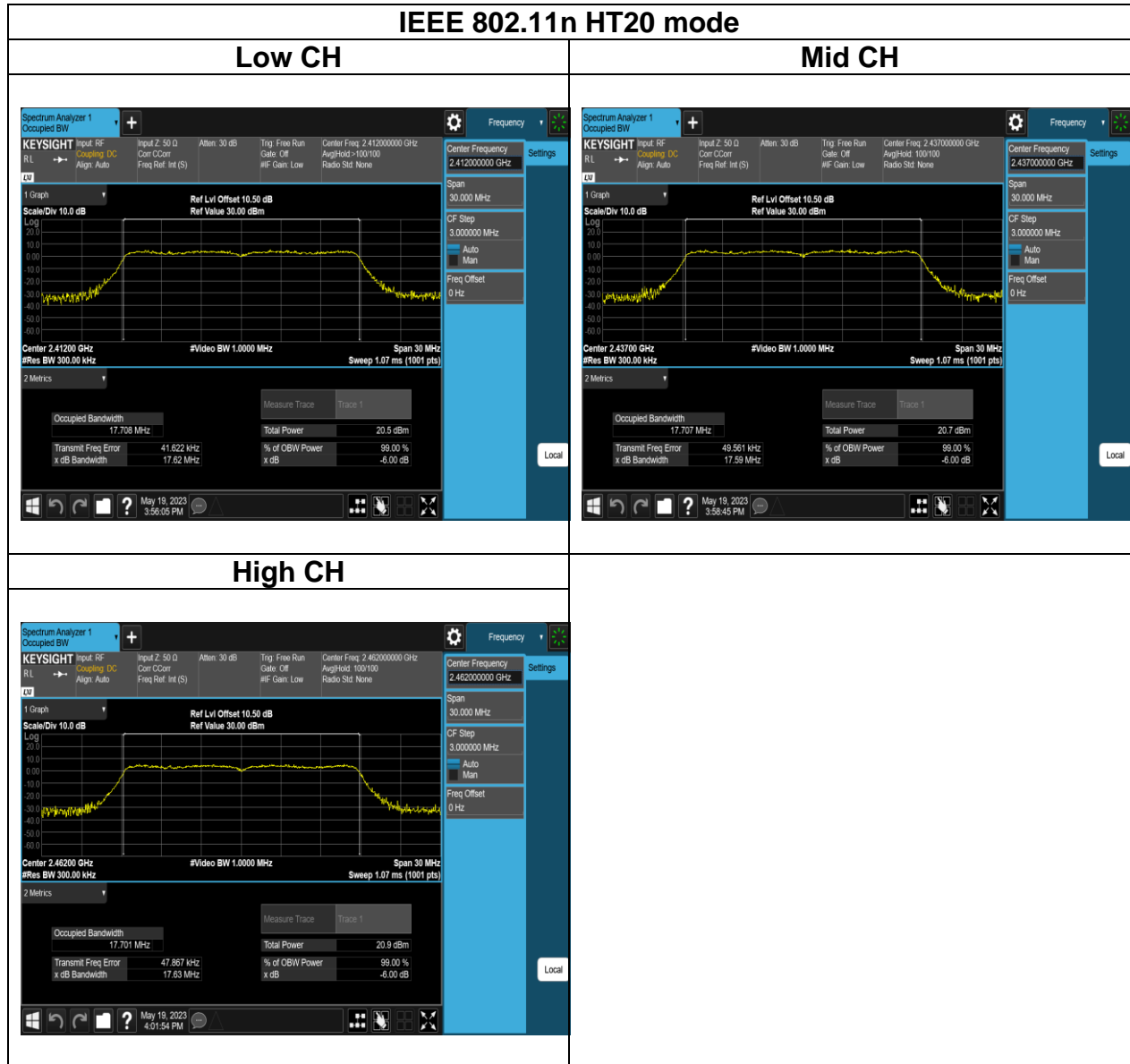
Report No.: TMWK2307002174KR

Test Data (BANDWIDTH 99%)

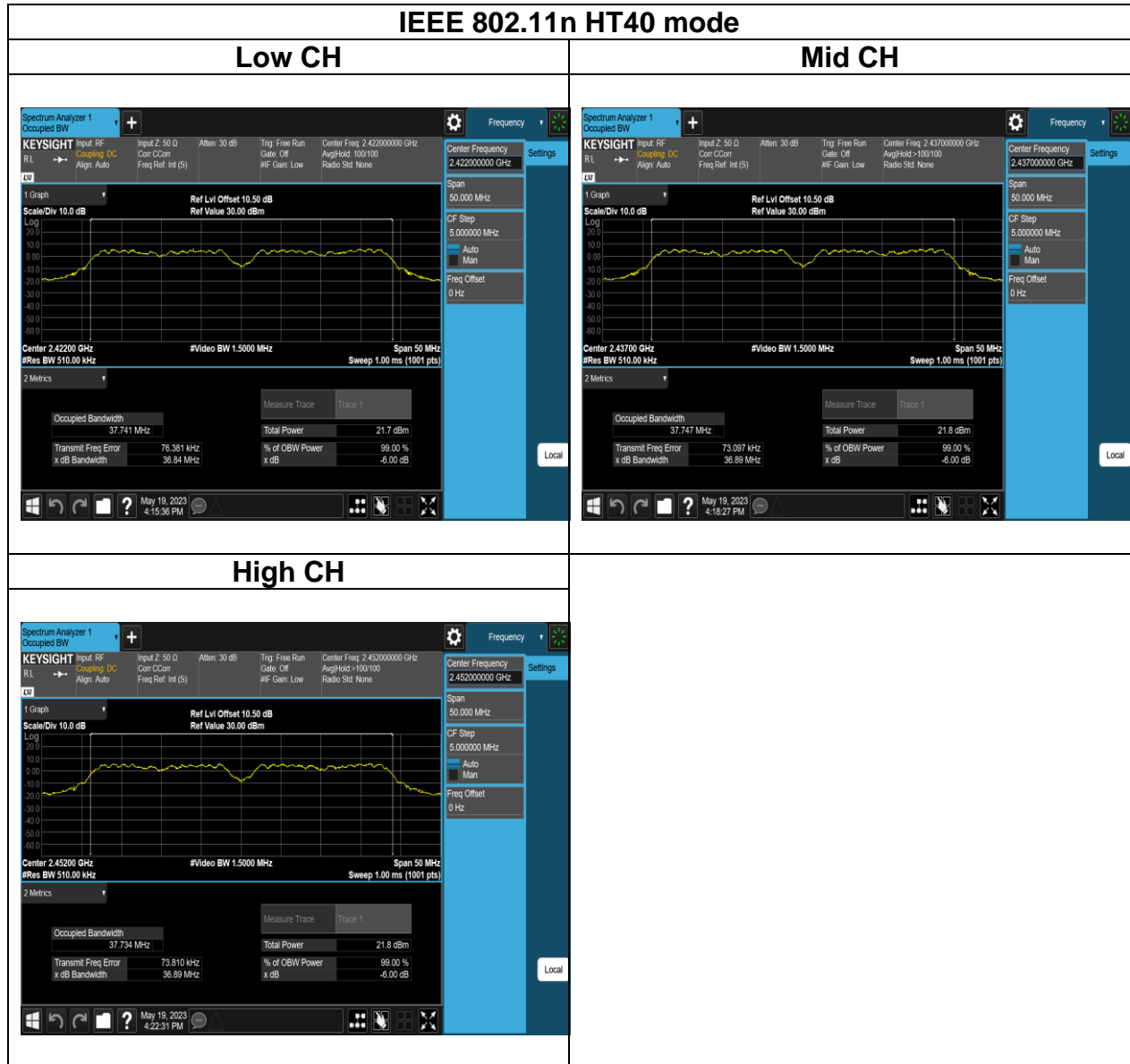




Report No.: TMWK2307002174KR



Report No.: TMWK2307002174KR



4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.247(b), §RSS-247 section 5.4(d)

Peak output power :

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm) and the e.i.r.p. shall not exceed 4Watt(36 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Limit	<input checked="" type="checkbox"/> Antenna not exceed 6 dBi : 30dBm <input type="checkbox"/> Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)] <input type="checkbox"/> Point-to-point operation :
-------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

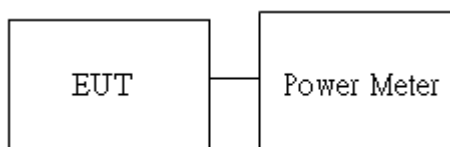
Average output power : For reporting purposes only.

4.3.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT RF output connected to the power meter by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Peak output power and Average output power. in the test report.

4.3.3 Test Setup



Report No.: TMWK2307002174KR

4.3.4 Test Result

Temperature: 22.8~27.1℃

Test date: May 19~June 19, 2023

Humidity: 50~64% RH

Tested by: David Li

Peak Output Power

Test Mode: IEEE 802.11b Mode

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	13	18.08	30.00	PASS
6	2437	1	16.5	20.88	30.00	PASS
11	2462	1	16.5	20.96	30.00	PASS

Test Mode: IEEE 802.11g Mode

802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	14	24.70	30.00	PASS
6	2437	6	15.5	25.53	30.00	PASS
11	2462	6	14	24.60	30.00	PASS

Test Mode: IEEE 802.11n HT20 Mode

802.11n_HT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	13	23.91	30.00	PASS
6	2437	MCS0	13.5	23.85	30.00	PASS
11	2462	MCS0	13	23.89	30.00	PASS

Test Mode: IEEE 802.11n HT40 Mode

802.11n_HT_40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	11	22.84	30.00	PASS
6	2437	MCS0	14.5	25.37	30.00	PASS
9	2452	MCS0	12	23.89	30.00	PASS

Note: Since DG<6dBi, there is no need to modify the limit value.

Average Output Power

Test Mode: IEEE 802.11b Mode

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	13	13.99	30.00	PASS
6	2437	1	16.5	16.77	30.00	PASS
11	2462	1	16.5	16.86	30.00	PASS

Test Mode: IEEE 802.11g Mode

802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	14	14.56	30.00	PASS
6	2437	6	15.5	15.39	30.00	PASS
11	2462	6	14	14.42	30.00	PASS

Test Mode: IEEE 802.11n HT20 Mode

802.11n_HT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	13	13.81	30.00	PASS
6	2437	MCS0	13.5	13.82	30.00	PASS
11	2462	MCS0	13	13.79	30.00	PASS

Test Mode: IEEE 802.11n HT40 Mode

802.11n_HT_40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	11	11.76	30.00	PASS
6	2437	MCS0	14.5	14.43	30.00	PASS
9	2452	MCS0	12	12.81	30.00	PASS

Note: Since DG<6dBi, there is no need to modify the limit value.

EIRP

Test Mode: IEEE 802.11b Mode

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	13.99	4.00	17.99	36	PASS
6	2437	1	16.77	4.00	20.77	36	PASS
11	2462	1	16.86	4.00	20.86	36	PASS

Test Mode: IEEE 802.11g Mode

802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	14.56	4.00	18.56	36	PASS
6	2437	6	15.39	4.00	19.39	36	PASS
11	2462	6	14.42	4.00	18.42	36	PASS

Test Mode: IEEE 802.11n HT20 Mode

802.11n_HT_20M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	13.81	4.00	17.81	36	PASS
6	2437	MCS0	13.82	4.00	17.82	36	PASS
11	2462	MCS0	13.79	4.00	17.79	36	PASS

Test Mode: IEEE 802.11n HT40 Mode

802.11n_HT_40M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	11.76	4.00	15.76	36	PASS
6	2437	MCS0	14.43	4.00	18.43	36	PASS
9	2452	MCS0	12.81	4.00	16.81	36	PASS

Note: Since DG<6dBi, there is no need to modify the limit value.

4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to §15.247(e), RSS-247 section 5.2(b),

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Limit	<input checked="" type="checkbox"/> Antenna not exceed 6 dBi : 8dBm <input type="checkbox"/> Antenna with DG greater than 6 dBi : [Limit = 8 – (DG – 6)] <input type="checkbox"/> Point-to-point operation :
-------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

4.4.2 Test Procedure

Test method Refer as ANSI C63.10:2013,

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 3kHz, VBW = 10kHz, Span = 1.5 times DTS Bandwidth (6 dB BW), Detector = Peak, Sweep Time = Auto and Trace = Max hold.
4. The path loss and Duty Factor were compensated to the results for each measurement by SA.
5. Mark the maximum level.
6. Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup





Report No.: TMWK2307002174KR

4.4.4 Test Result

Temperature: 22.8~27.1°C

Test date: May 19~June 19, 2023

Humidity: 50~64% RH

Tested by: David Li

POWER DENSITY 802.11b				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-6.07	-6.07	8.00	PASS
2437	-2.10	-2.10	8.00	PASS
2462	-2.93	-2.93	8.00	PASS

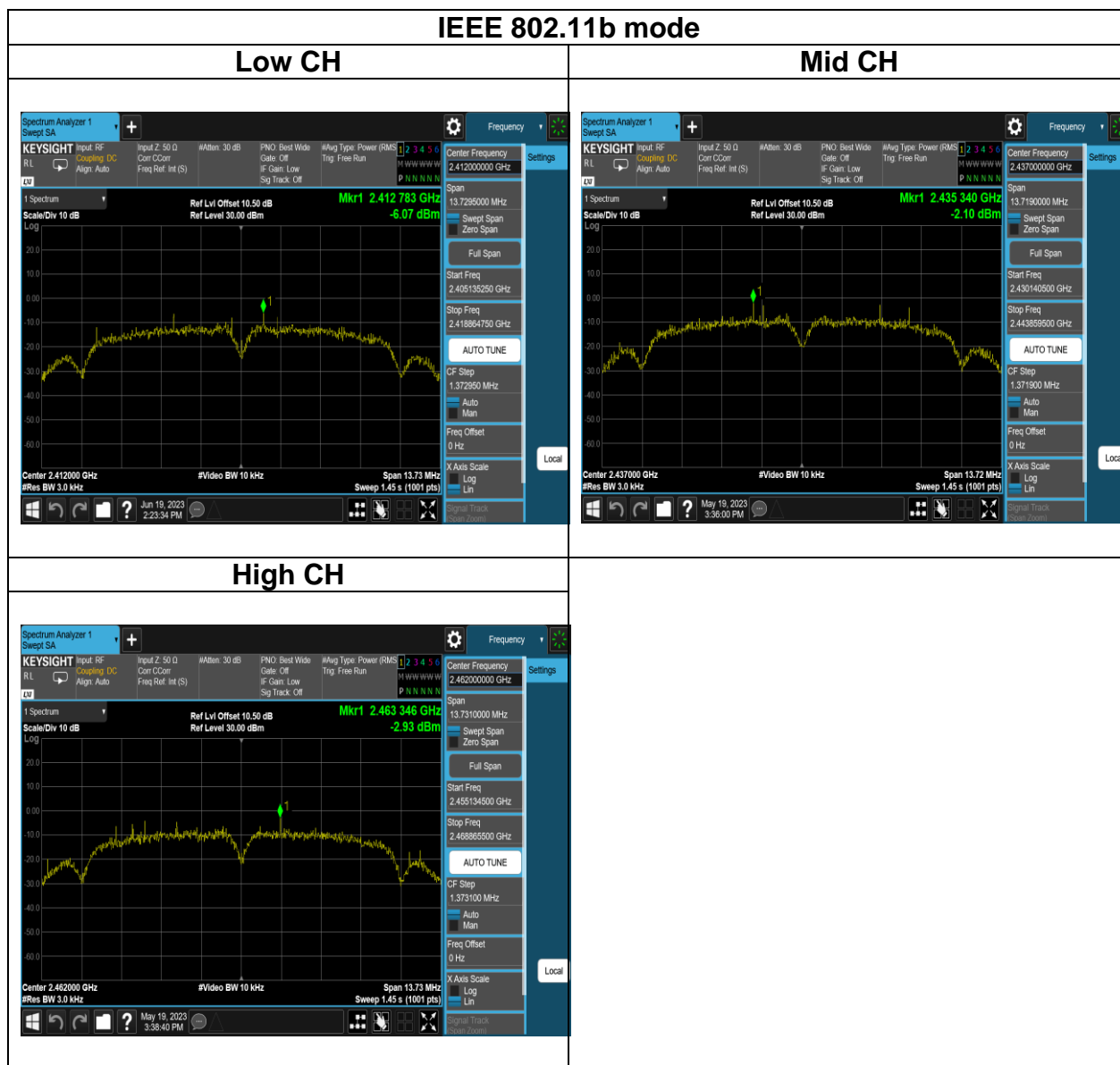
POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-11.66	-11.66	8.00	PASS
2437	-11.01	-11.01	8.00	PASS
2462	-11.42	-11.42	8.00	PASS

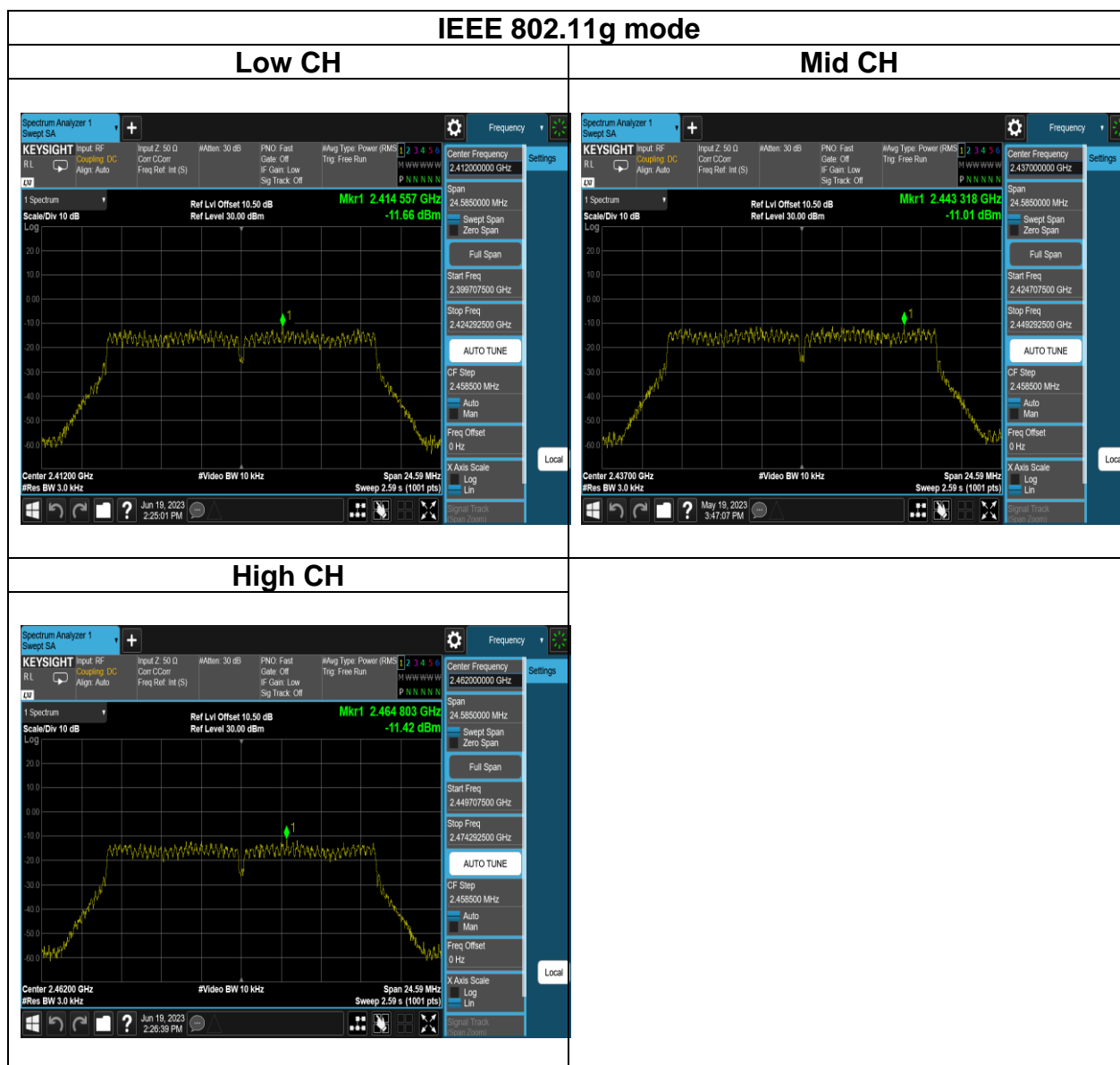
POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-11.4	-11.40	8.00	PASS
2437	-11.78	-11.78	8.00	PASS
2462	-12.51	-12.51	8.00	PASS

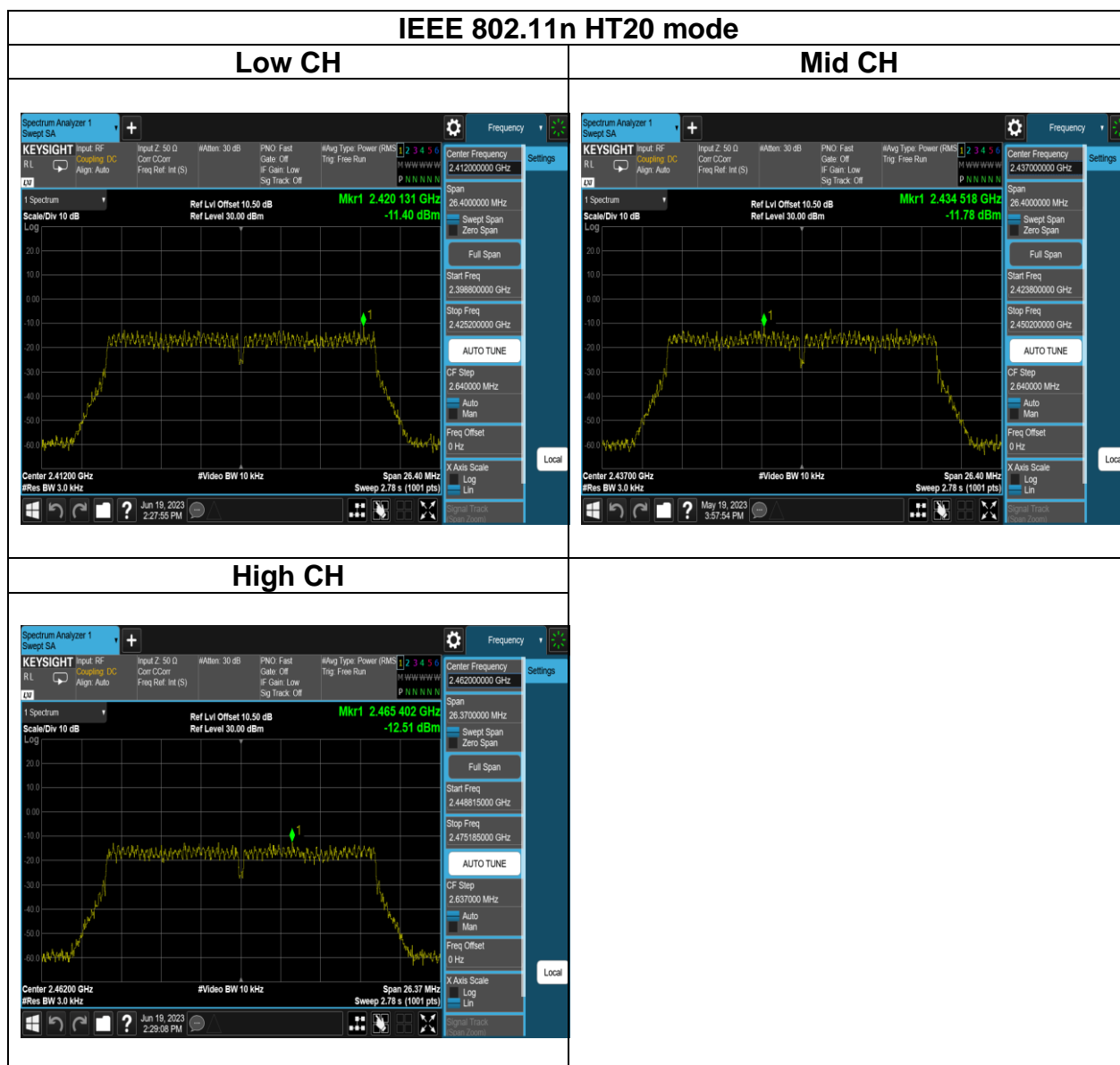
POWER DENSITY 802.11n HT40				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-17.39	-17.39	8.00	PASS
2437	-14.44	-14.44	8.00	PASS
2452	-16.02	-16.02	8.00	PASS

Report No.: TMWK2307002174KR

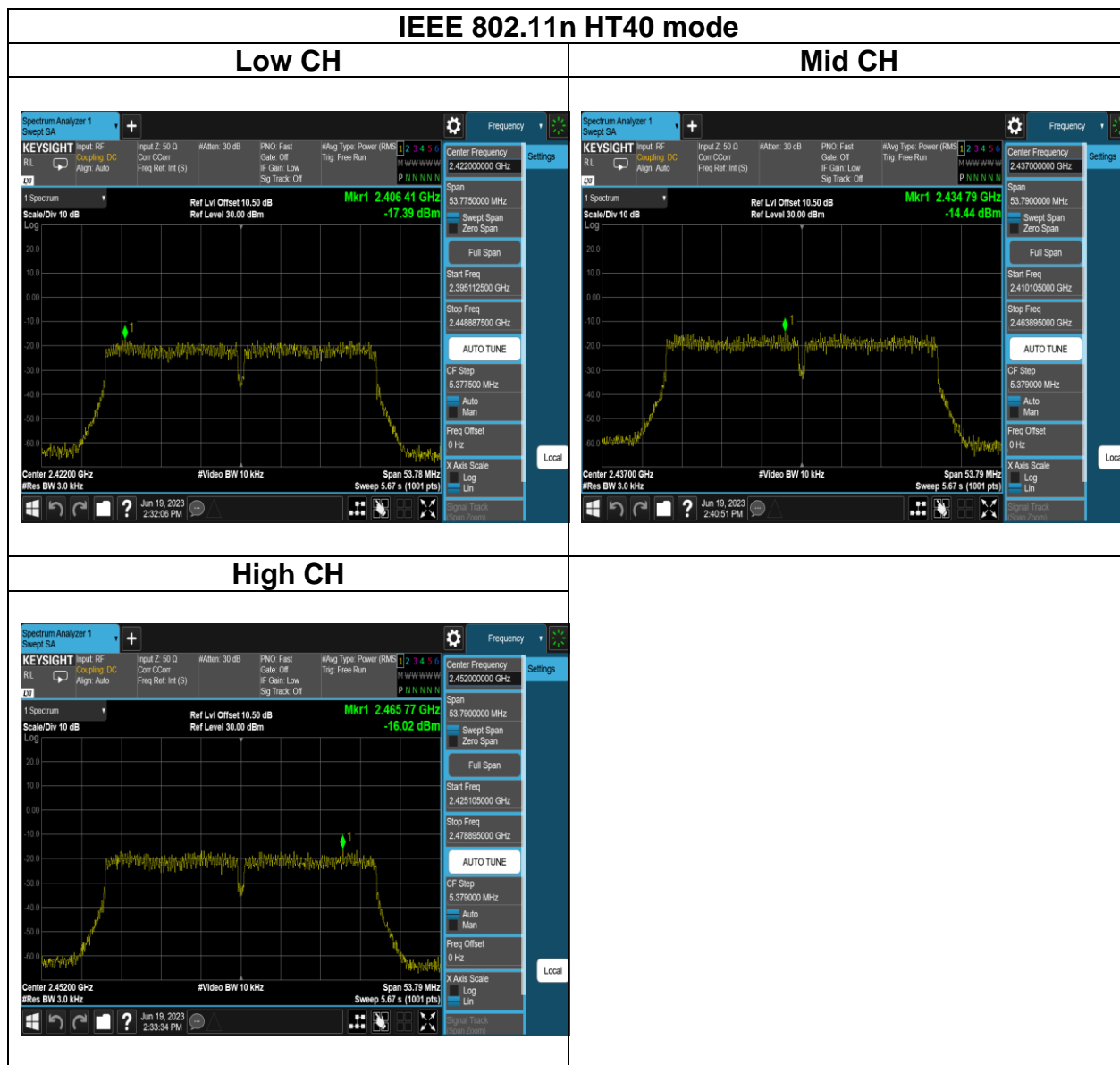
Test Data:







Report No.: TMWK2307002174KR



4.5 CONDUCTED BANDEDGE AND SPURIOUS EMISSION

4.5.1 Test Limit

According to §15.247(d), RSS-247 section 5.5,

In any 100 kHz bandwidth outside the authorized frequency band,

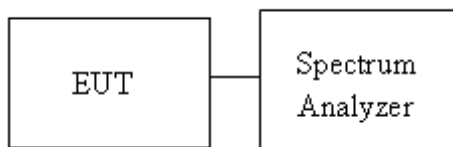
Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

4.5.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted 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.

4.5.3 Test Setup



Report No.: TMWK2307002174KR

4.5.4 Test Result

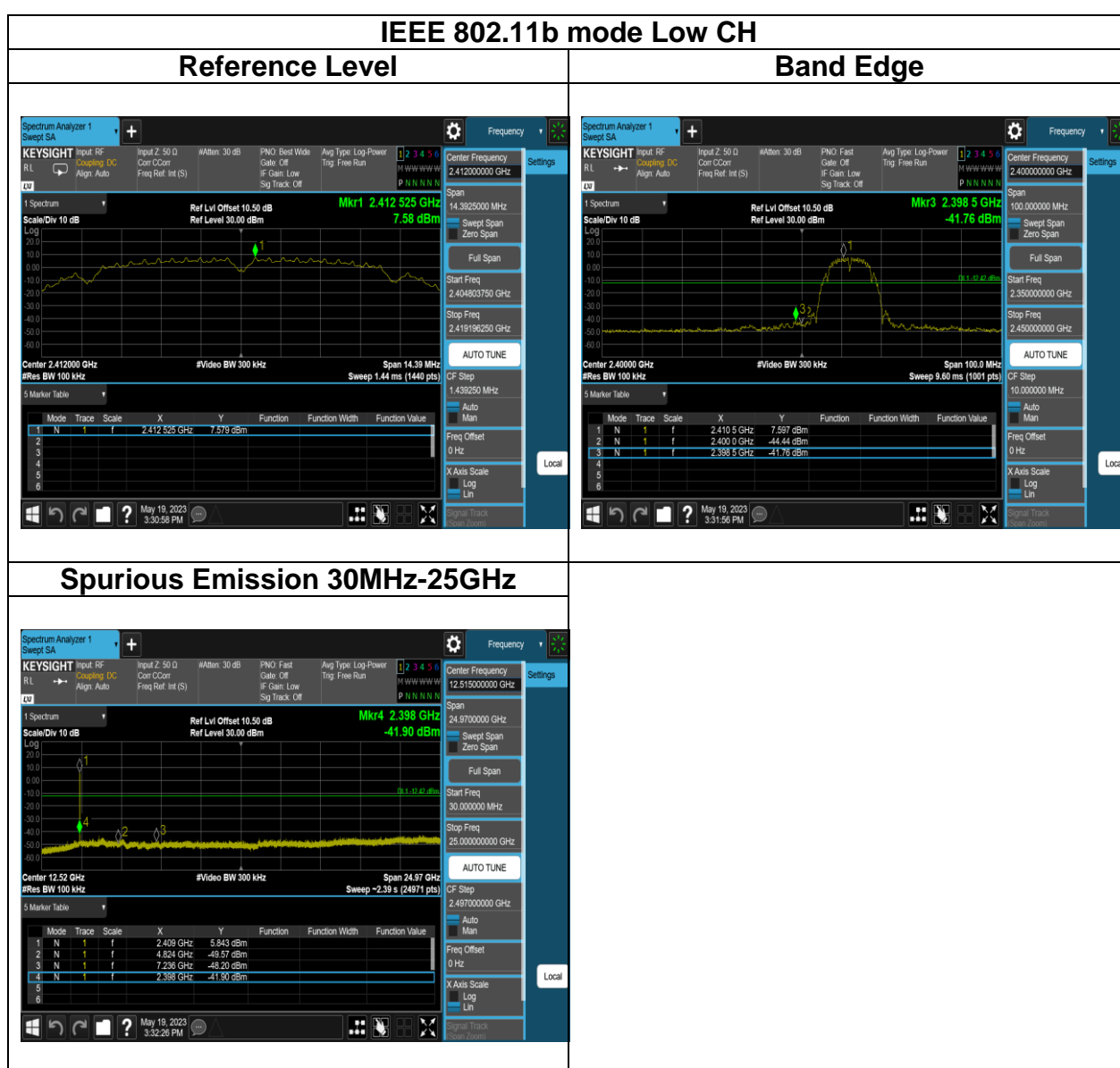
Temperature: 22.8~27.1°C

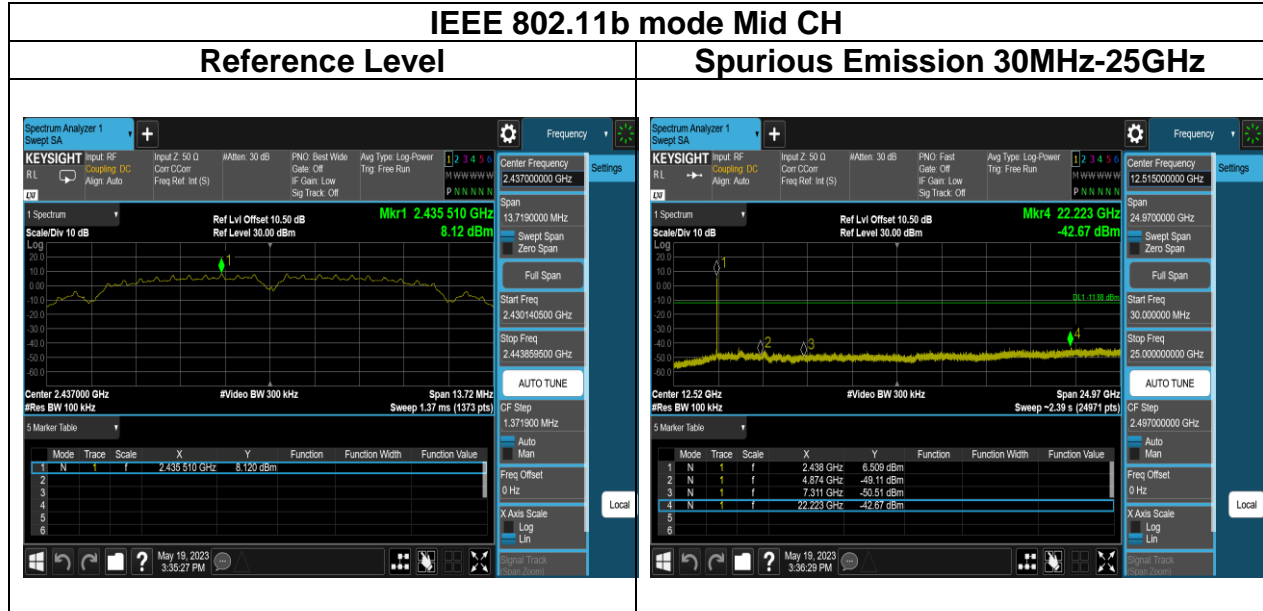
Test date: May 19~June 19, 2023

Humidity: 50~64% RH

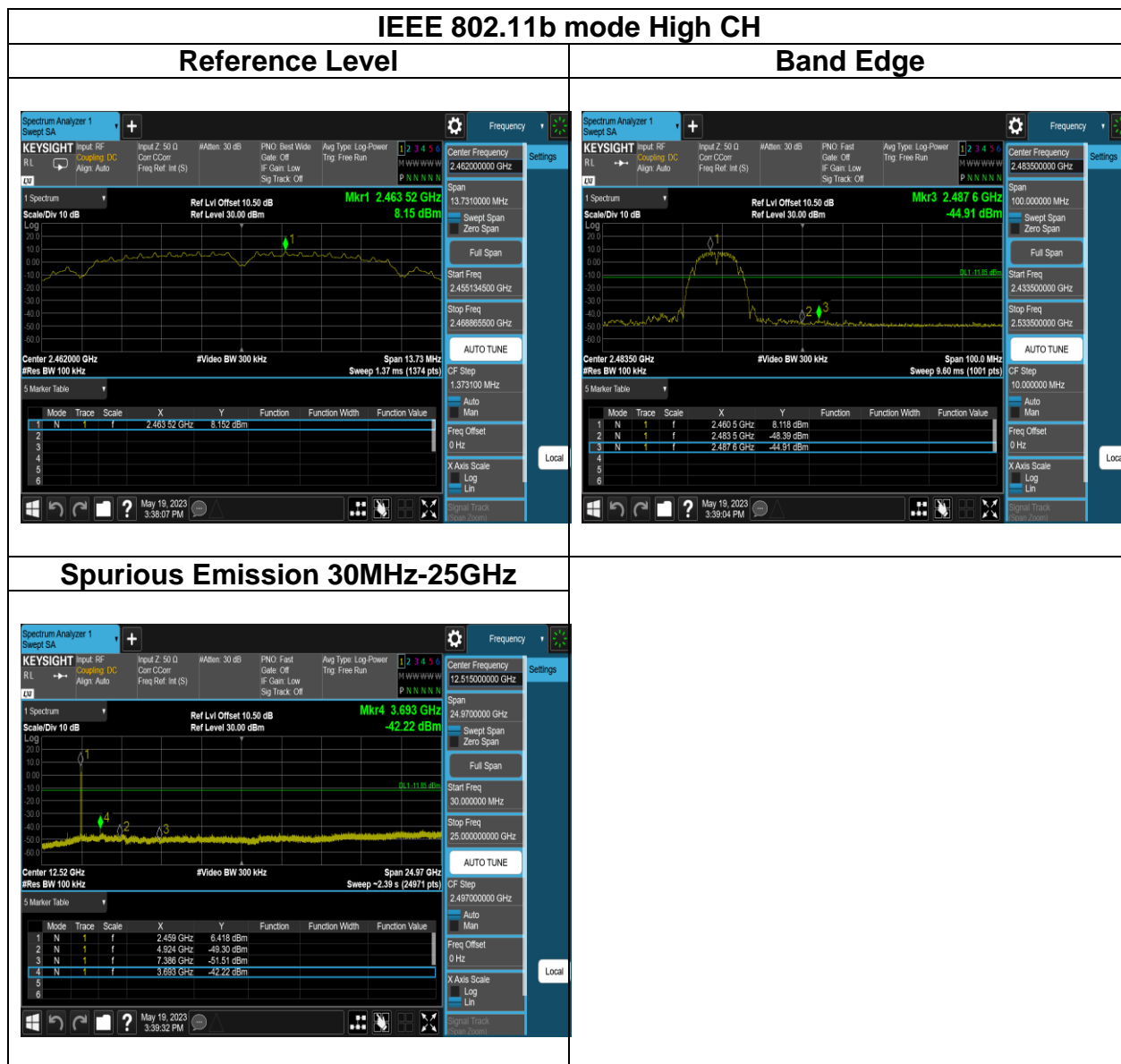
Tested by: David Li

Test Data



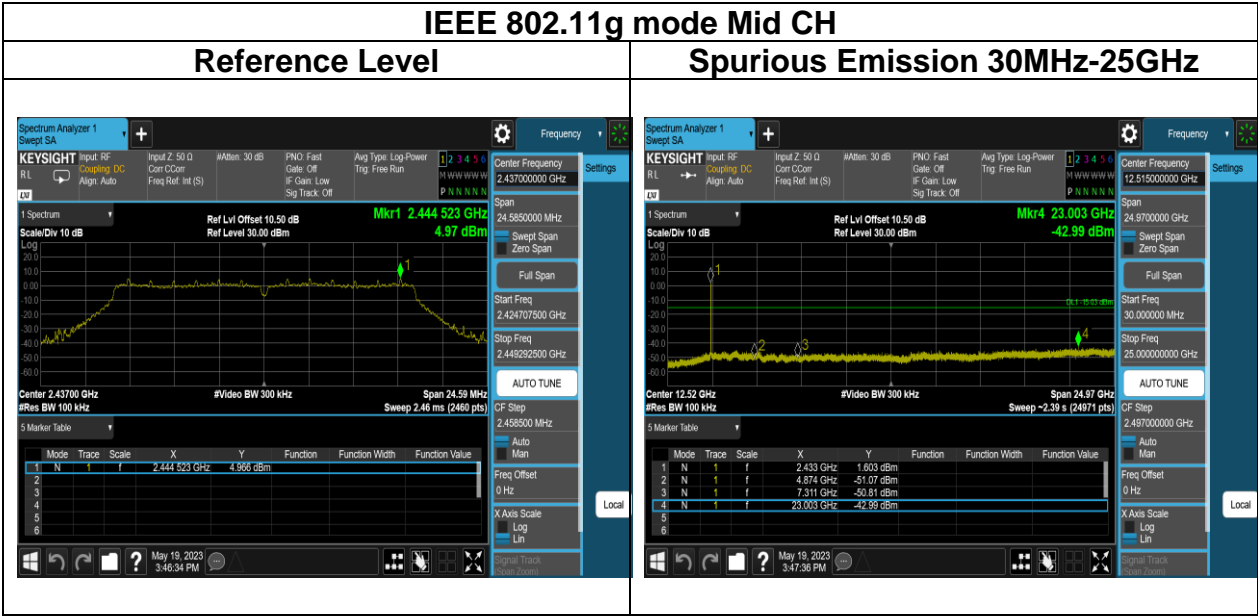


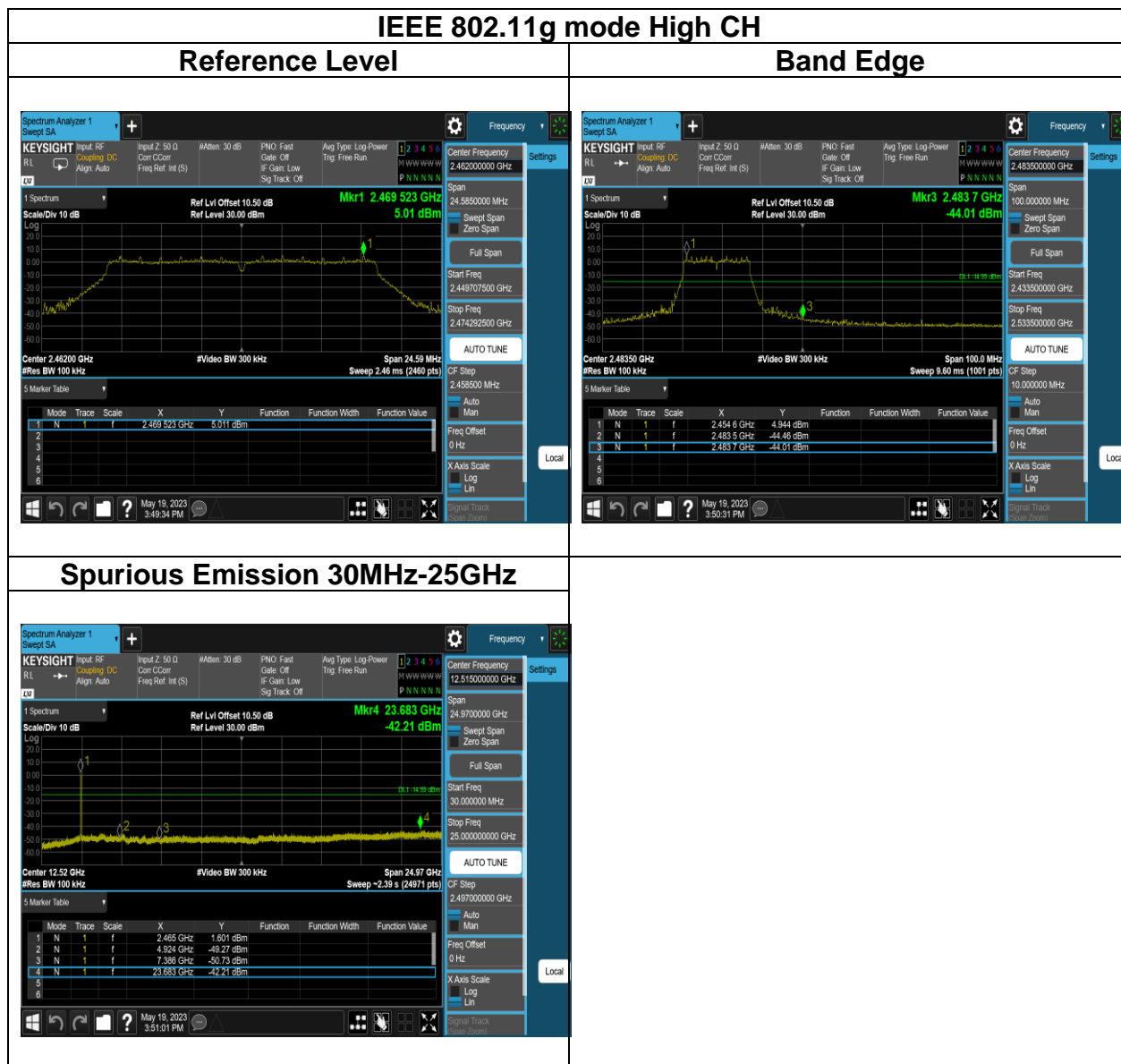
Report No.: TMWK2307002174KR

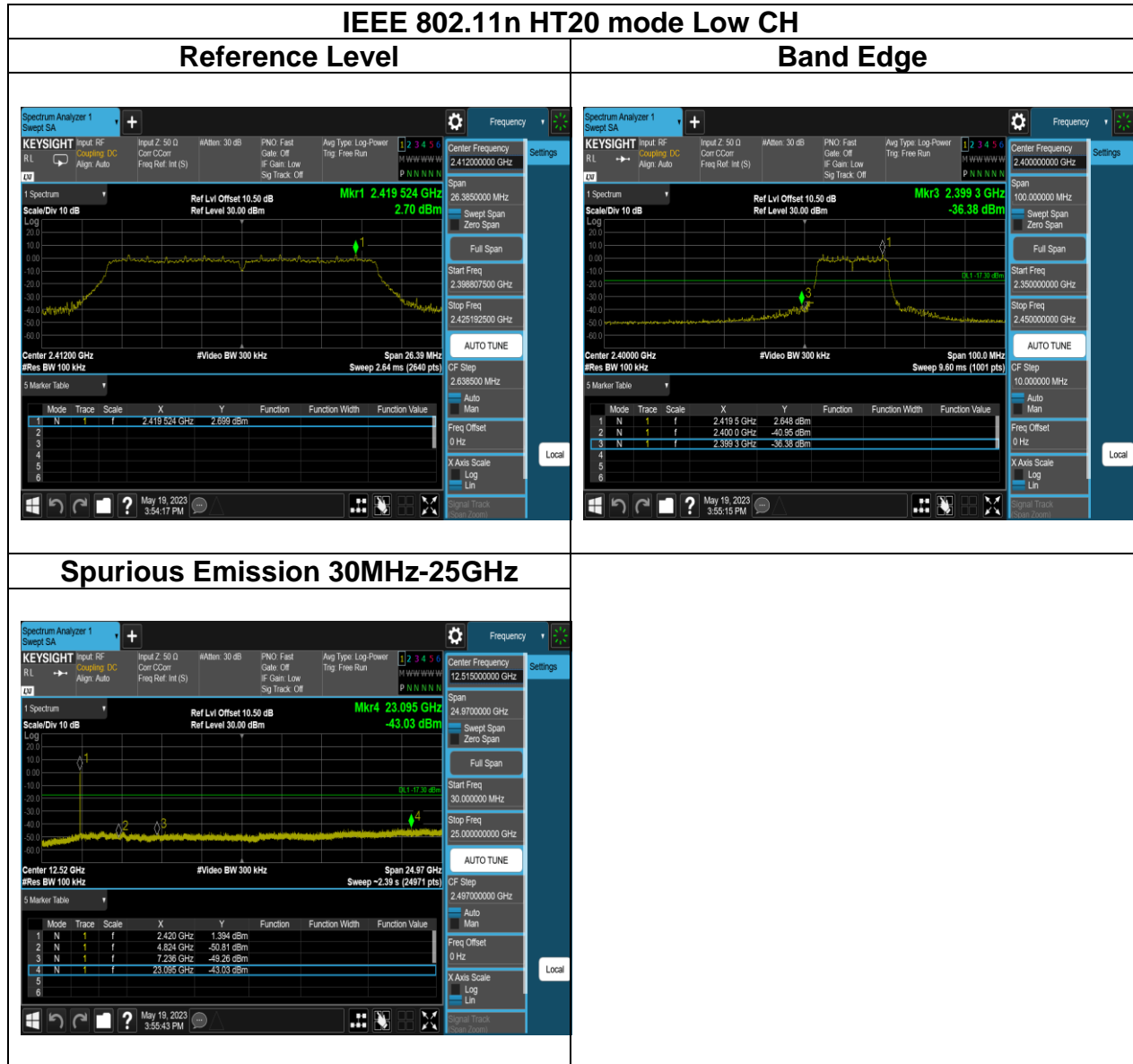


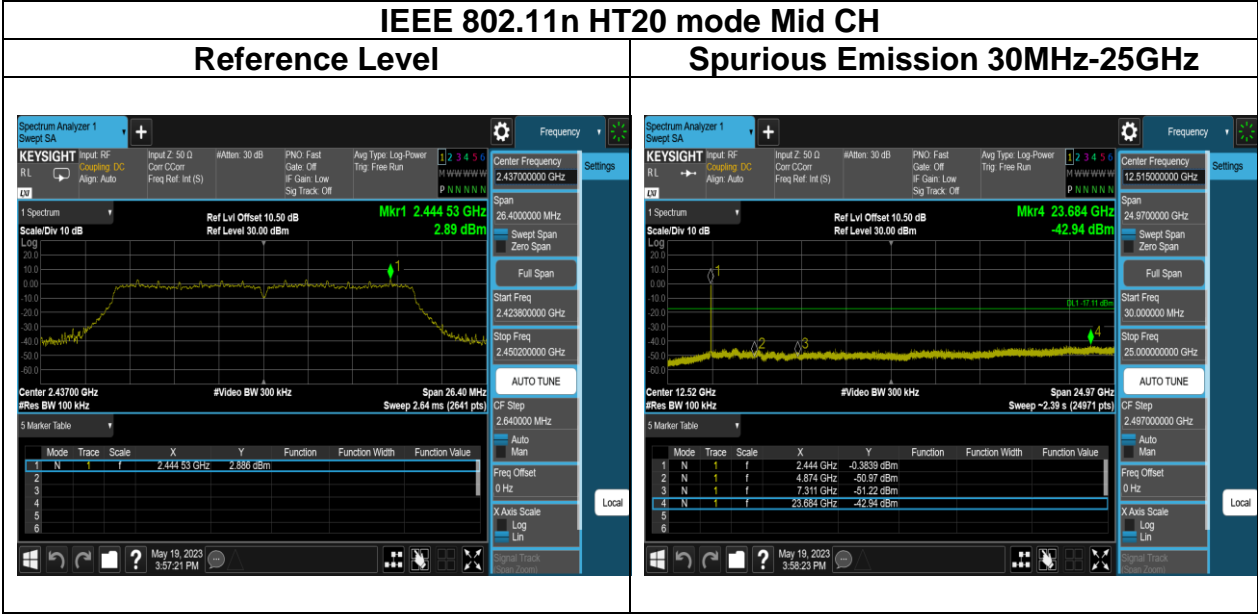
Report No.: TMWK2307002174KR



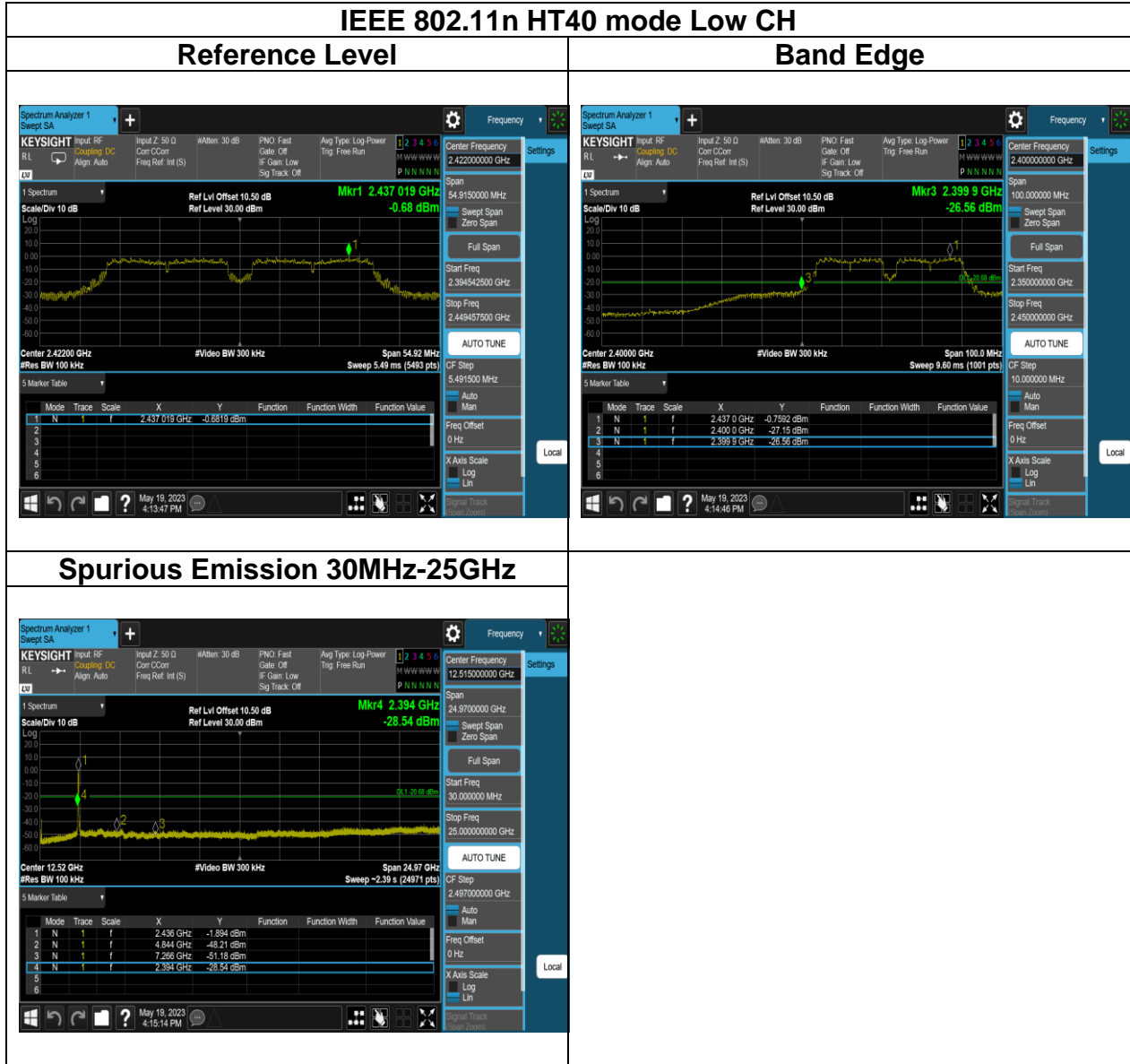


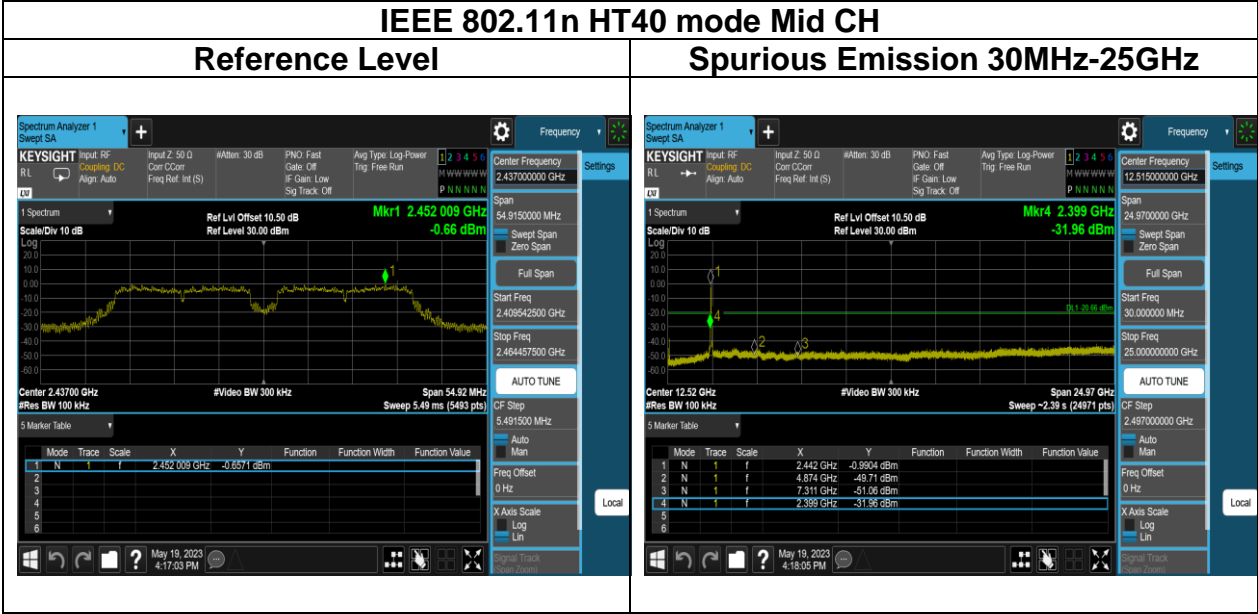


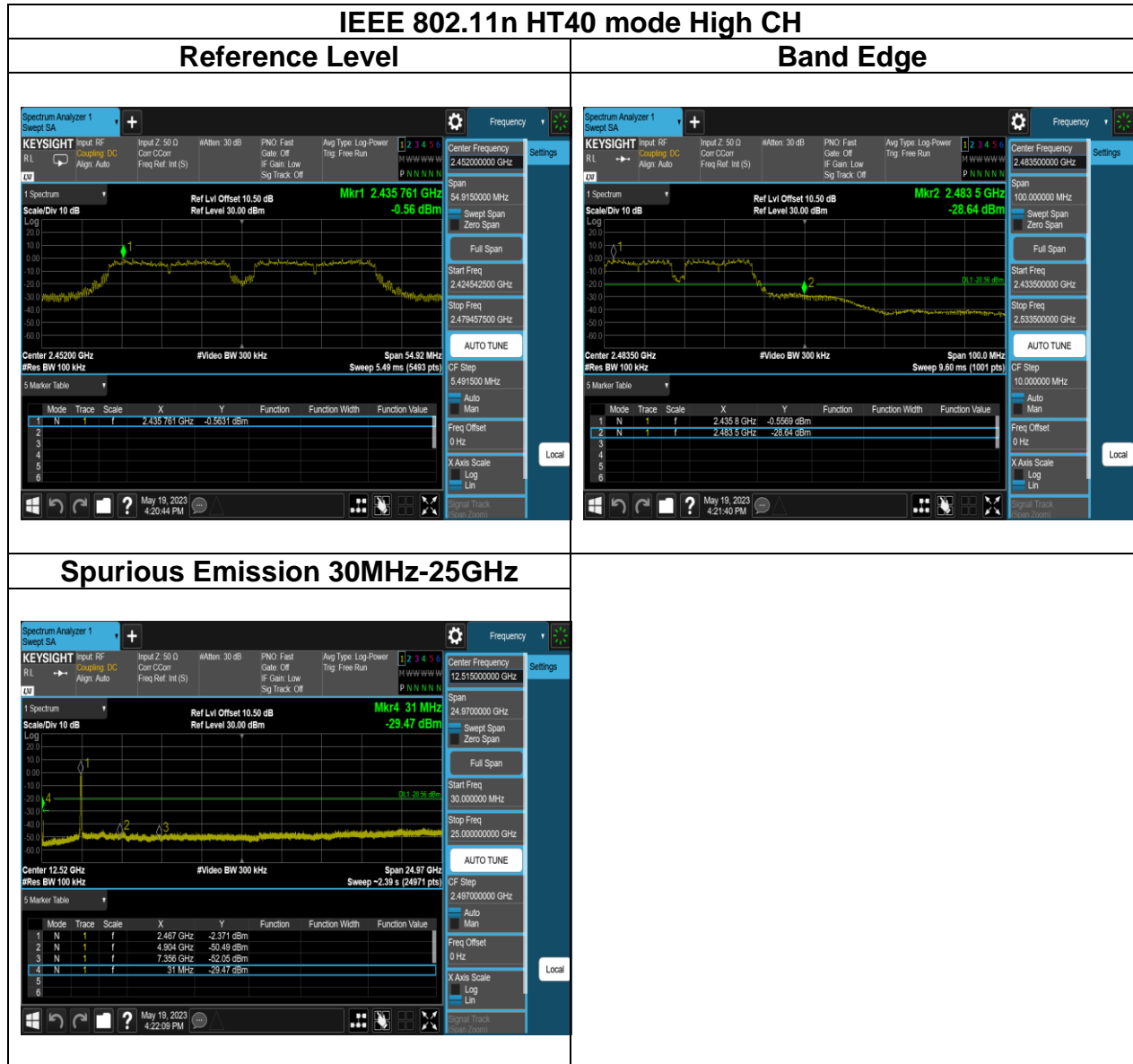












4.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.6.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz ^(Note)

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Note: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement Distance (m)
9-490 kHz ^{Note}	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

4.6.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Note: No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

4. The SA setting following :

(1) Below 1G : RBW = 100kHz, VBW \geq 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2) Above 1G :

(2.1) For Peak measurement : RBW = 1MHz, VBW \geq 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2.2) For Average measurement : RBW = 1MHz, VBW

·If Duty Cycle \geq 98%, VBW=10Hz.

·If Duty Cycle < 98%, VBW=1/T.

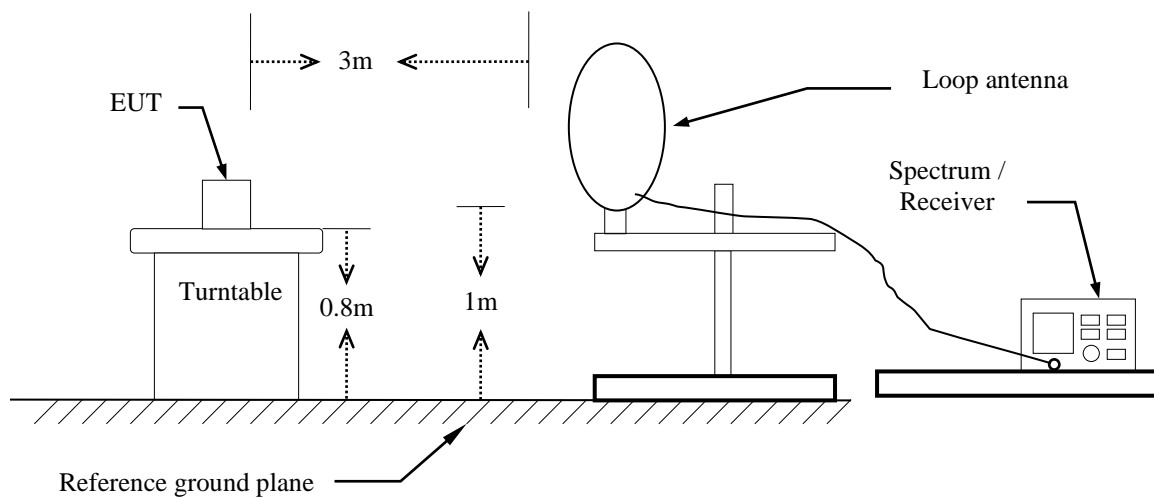
5. Data result :

Actual FS=Spectrum Reading Level + Factor

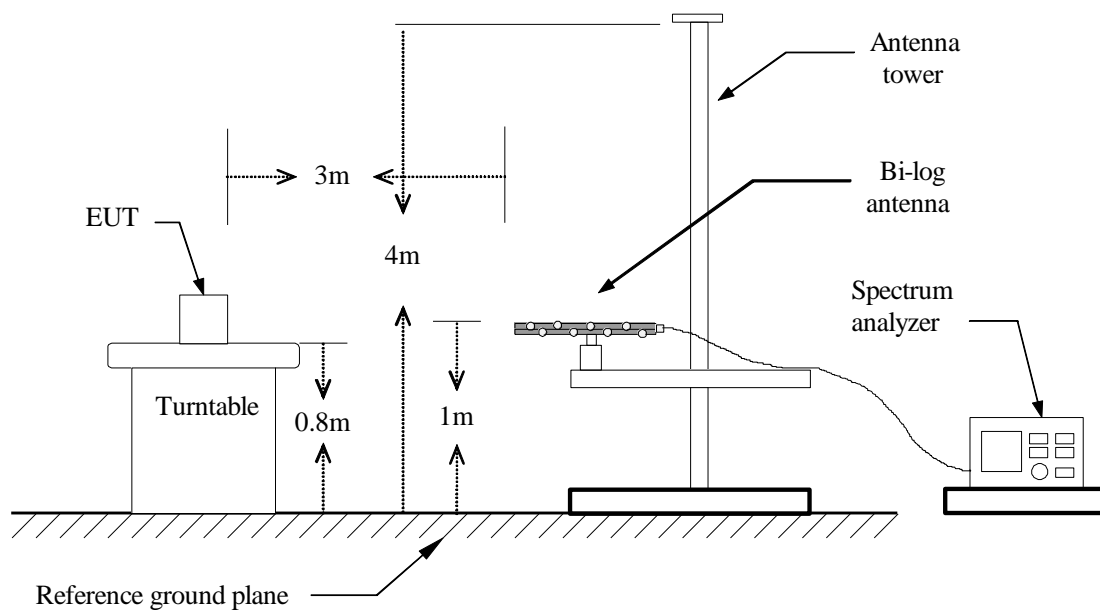
Margin=Actual FS- Limit

4.6.3 Test Setup

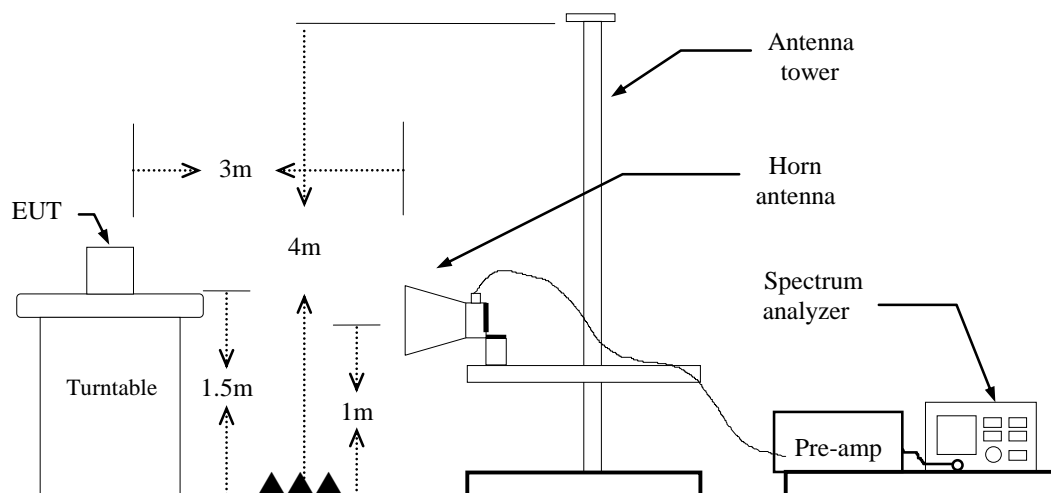
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1 GHz



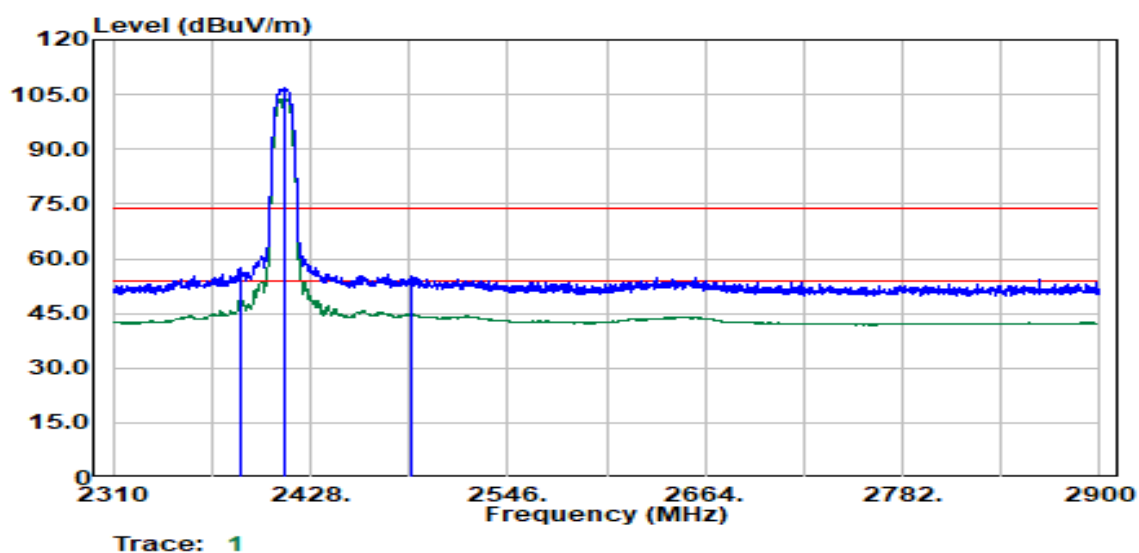
Report No.: TMWK2307002174KR

4.6.4 Test Result

Band Edge Test Data

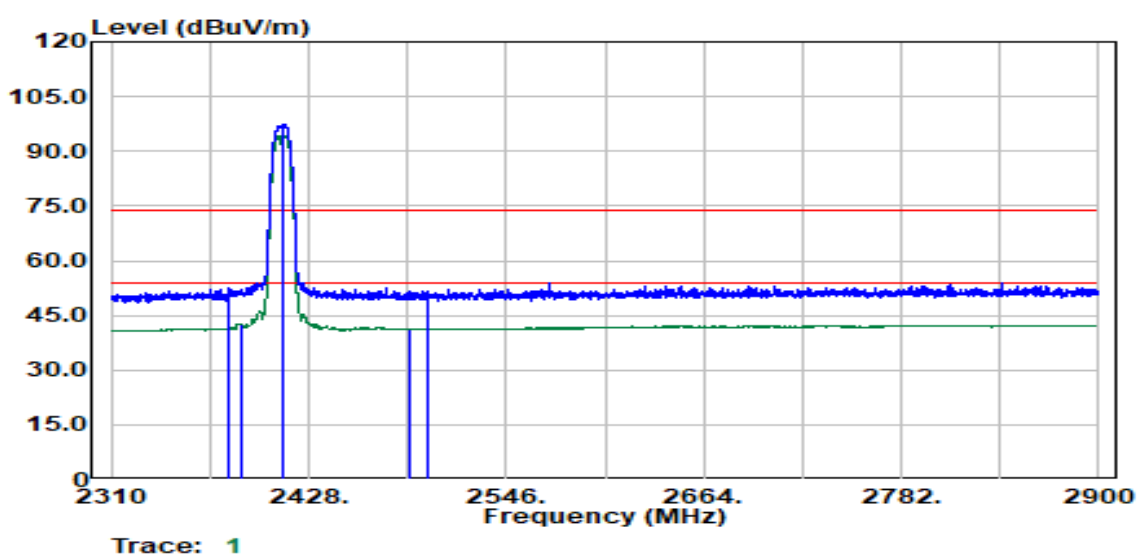
Test Mode: Mode 1 (Dipole Antenna)

Test Mode	IEEE 802.11b 2412 MHz	Temp/Hum	24.5(°C)/ 62%RH
Test Item	Band Edge	Test Date	May 31, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



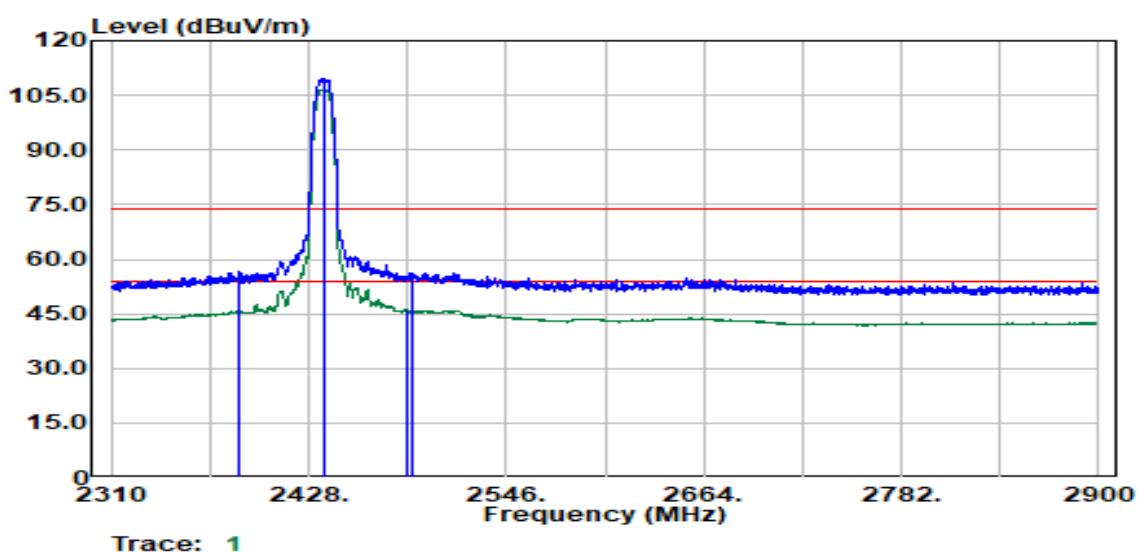
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2385.78	Peak	52.68	4.80	57.48	74.00	-16.52
2385.78	Average	44.14	4.80	48.94	54.00	-5.06
2412.00	Peak	102.19	4.54	106.72	--	--
2412.00	Average	99.36	4.54	103.90	--	--
2488.33	Peak	50.52	4.56	55.09	74.00	-18.91
2489.08	Average	40.15	4.56	44.71	54.00	-9.29

Test Mode	IEEE 802.11b 2412 MHz	Temp/Hum	24.5(°C)/ 62%RH
Test Item	Band Edge	Test Date	May 31, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



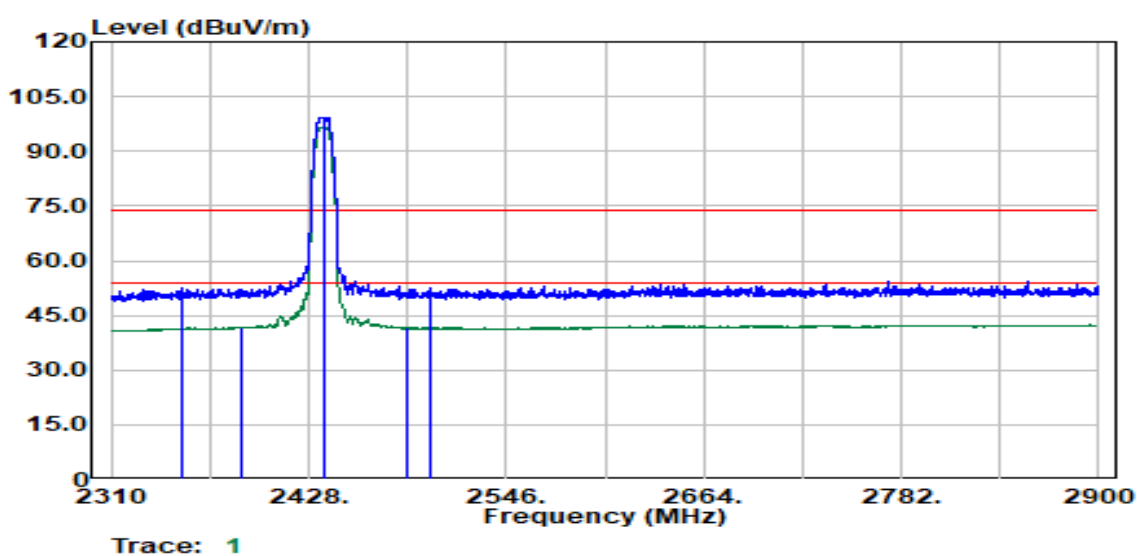
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
2379.78	Peak	47.77	4.80	52.56	74.00	-21.44
2387.28	Average	37.78	4.80	42.58	54.00	-11.42
2412.00	Peak	92.82	4.54	97.36	--	--
2412.00	Average	89.80	4.54	94.34	--	--
2488.58	Average	36.77	4.56	41.33	54.00	-12.67
2498.83	Peak	46.88	4.64	51.51	74.00	-22.49

Test Mode	IEEE 802.11b 2437 MHz	Temp/Hum	24.5(°C)/ 62%RH
Test Item	Band Edge	Test Date	May 31, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



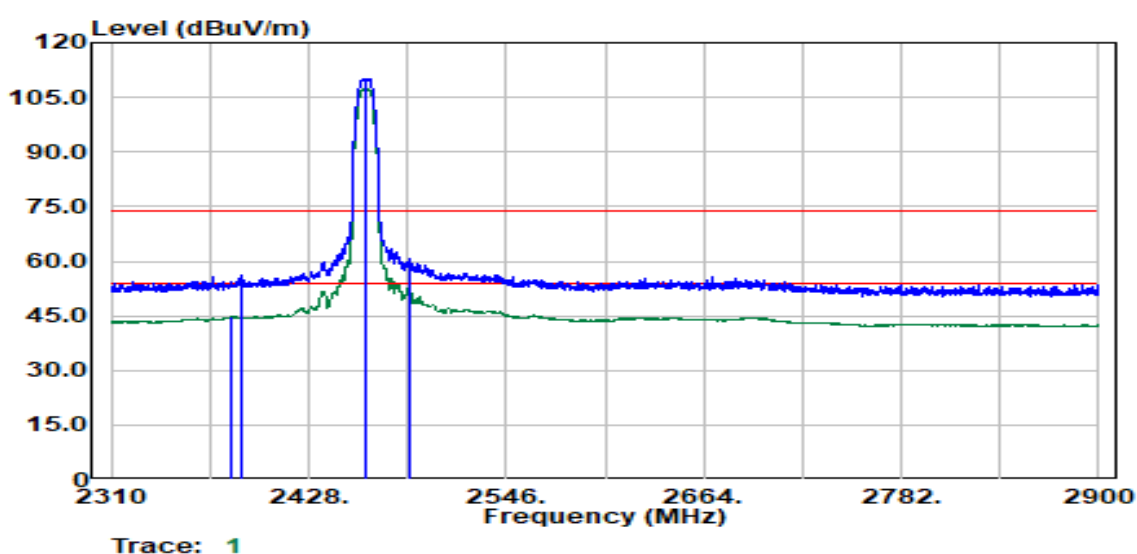
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2386.03	Peak	51.79	4.80	56.59	74.00	-17.41
2386.53	Average	41.01	4.80	45.82	54.00	-8.18
2437.00	Peak	104.89	4.56	109.45	--	--
2437.00	Average	102.06	4.56	106.62	--	--
2486.08	Average	41.77	4.59	46.35	54.00	-7.65
2490.58	Peak	51.78	4.55	56.33	74.00	-17.67

Test Mode	IEEE 802.11b 2437 MHz	Temp/Hum	24.5(°C)/ 62%RH
Test Item	Band Edge	Test Date	May 31, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



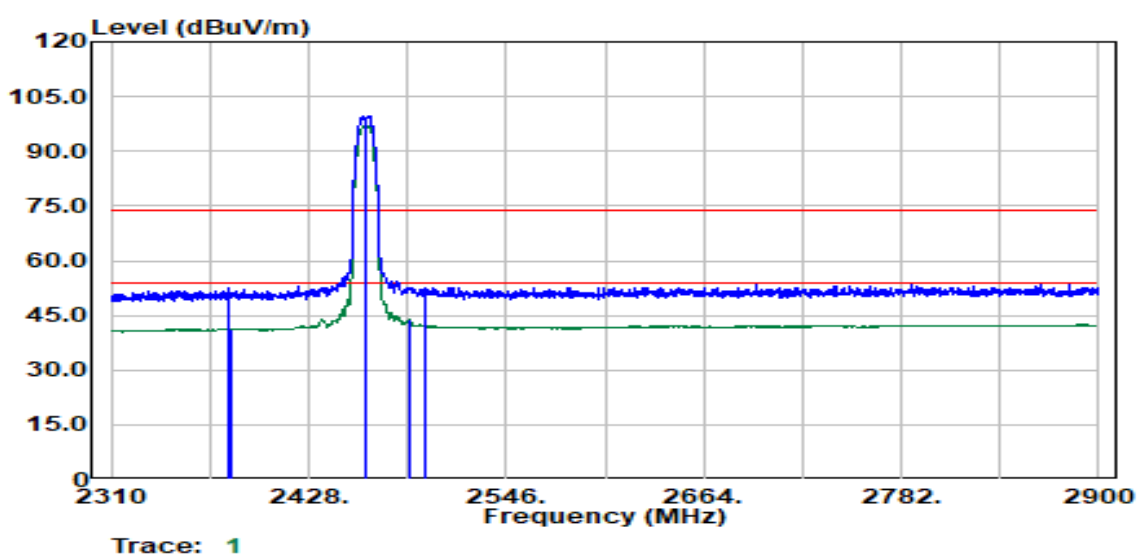
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2351.77	Peak	47.71	4.86	52.57	74.00	-21.43
2387.78	Average	36.96	4.80	41.76	54.00	-12.24
2437.00	Peak	94.80	4.56	99.36	--	--
2437.00	Average	92.10	4.56	96.66	--	--
2486.33	Average	37.04	4.58	41.62	54.00	-12.38
2500.08	Peak	47.76	4.65	52.41	74.00	-21.59

Test Mode	IEEE 802.11b 2462 MHz	Temp/Hum	24.5(°C)/ 62%RH
Test Item	Band Edge	Test Date	May 31, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



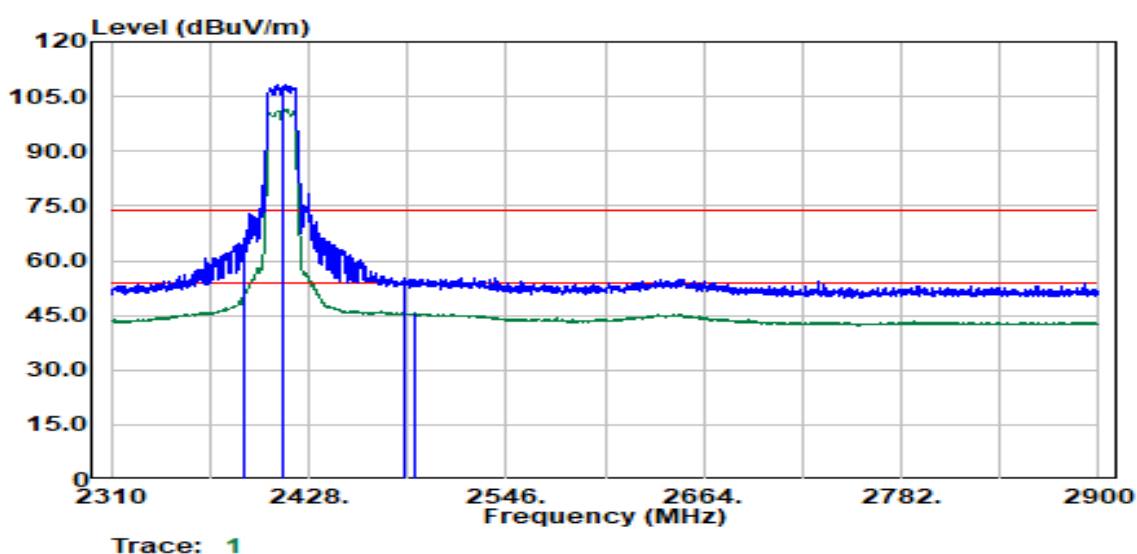
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2382.28	Average	39.95	4.80	44.75	54.00	-9.25
2388.03	Peak	51.13	4.80	55.93	74.00	-18.07
2462.00	Peak	105.52	4.66	110.18	--	--
2462.00	Average	102.61	4.66	107.27	--	--
2487.83	Average	48.49	4.57	53.06	54.00	-0.94
2488.33	Peak	56.11	4.56	60.67	74.00	-13.33

Test Mode	IEEE 802.11b 2462 MHz	Temp/Hum	24.5(°C)/ 62%RH
Test Item	Band Edge	Test Date	May 31, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



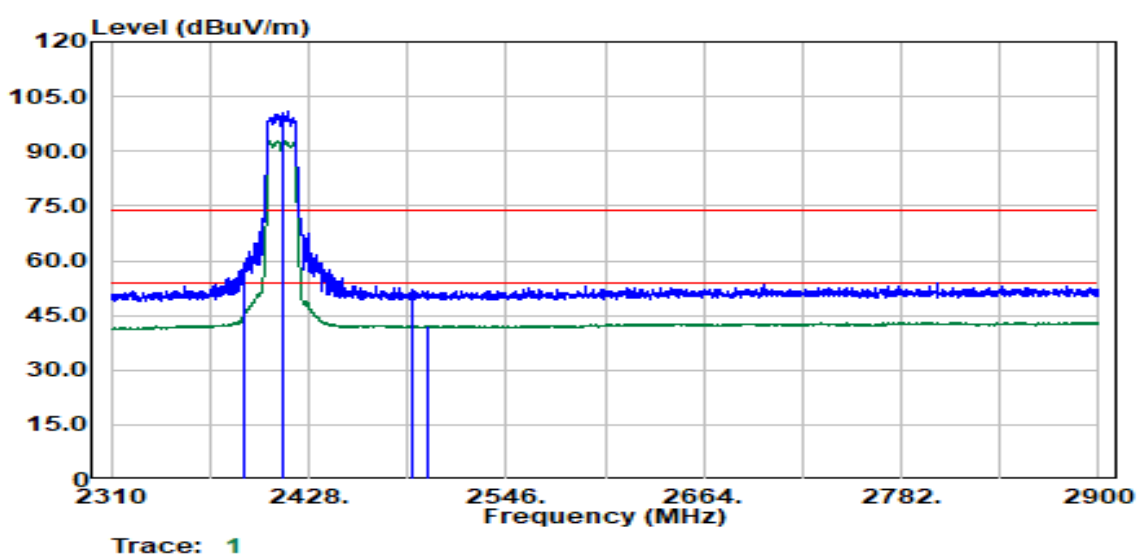
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2380.53	Peak	47.66	4.80	52.45	74.00	-21.55
2382.03	Average	36.54	4.80	41.34	54.00	-12.66
2462.00	Peak	95.09	4.66	99.75	--	--
2462.00	Average	92.26	4.66	96.93	--	--
2488.08	Average	39.40	4.57	43.96	54.00	-10.04
2498.08	Peak	48.11	4.63	52.74	74.00	-21.26

Test Mode	IEEE 802.11g 2412 MHz	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Band Edge	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



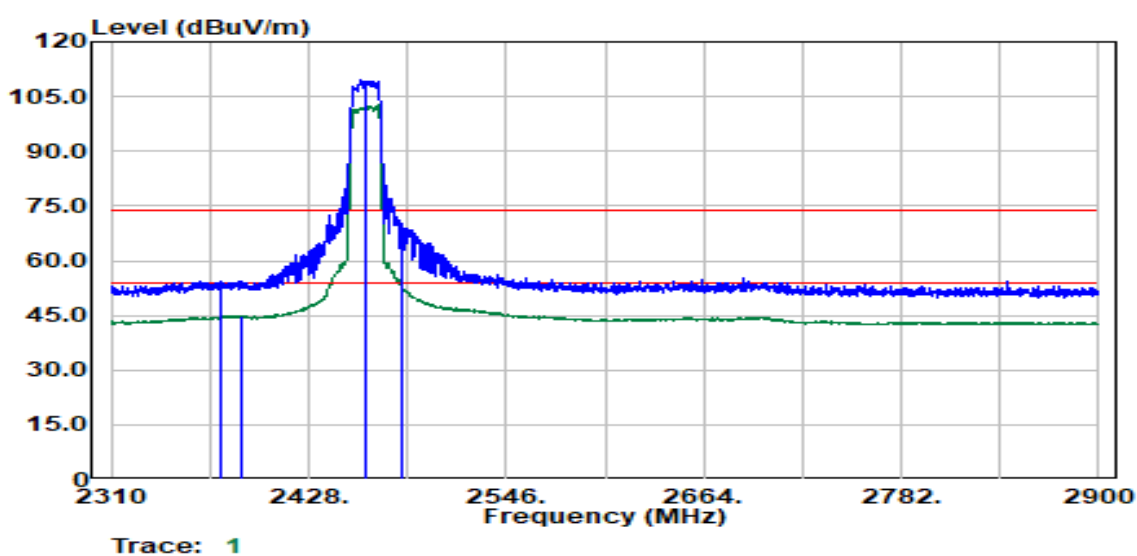
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.78	Average	48.13	4.80	52.94	54.00	-1.06
2390.00	Peak	61.23	4.80	66.03	74.00	-7.97
2412.00	Peak	103.84	4.54	108.38	--	--
2412.00	Average	96.93	4.54	101.47	--	--
2485.57	Peak	50.87	4.59	55.46	74.00	-18.54
2492.08	Average	41.01	4.57	45.58	54.00	-8.42

Test Mode	IEEE 802.11g 2412 MHz	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Band Edge	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



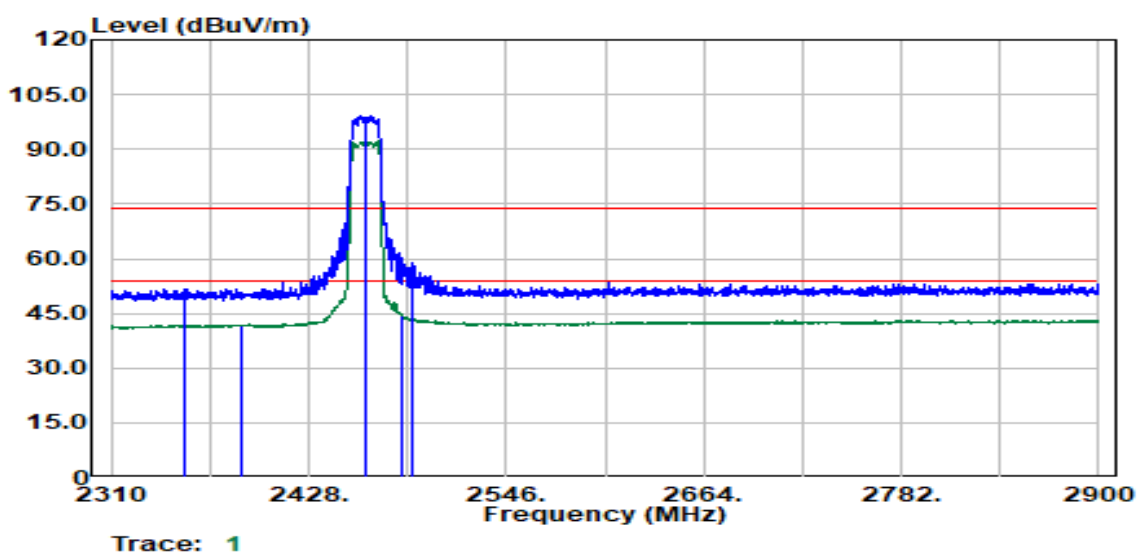
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.53	Peak	54.53	4.80	59.33	74.00	-14.67
2390.00	Average	40.19	4.80	44.99	54.00	-9.01
2412.00	Peak	96.27	4.54	100.81	--	--
2412.00	Average	88.30	4.54	92.83	--	--
2489.58	Peak	47.34	4.55	51.89	74.00	-22.11
2499.33	Average	37.45	4.64	42.09	54.00	-11.91

Test Mode	IEEE 802.11g 2462 MHz	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Band Edge	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



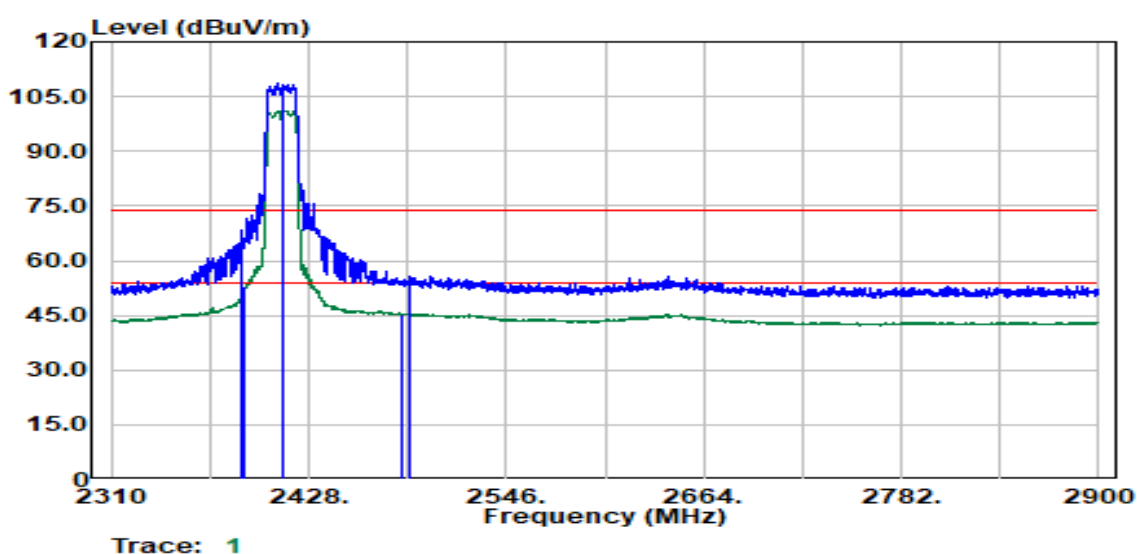
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2375.28	Peak	49.64	4.75	54.39	74.00	-19.61
2388.03	Average	40.09	4.80	44.90	54.00	-9.10
2462.00	Peak	104.85	4.66	109.51	--	--
2462.00	Average	98.08	4.66	102.75	--	--
2483.57	Peak	64.93	4.61	69.54	74.00	-4.46
2483.57	Average	48.51	4.61	53.12	54.00	-0.88

Test Mode	IEEE 802.11g 2462 MHz	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Band Edge	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



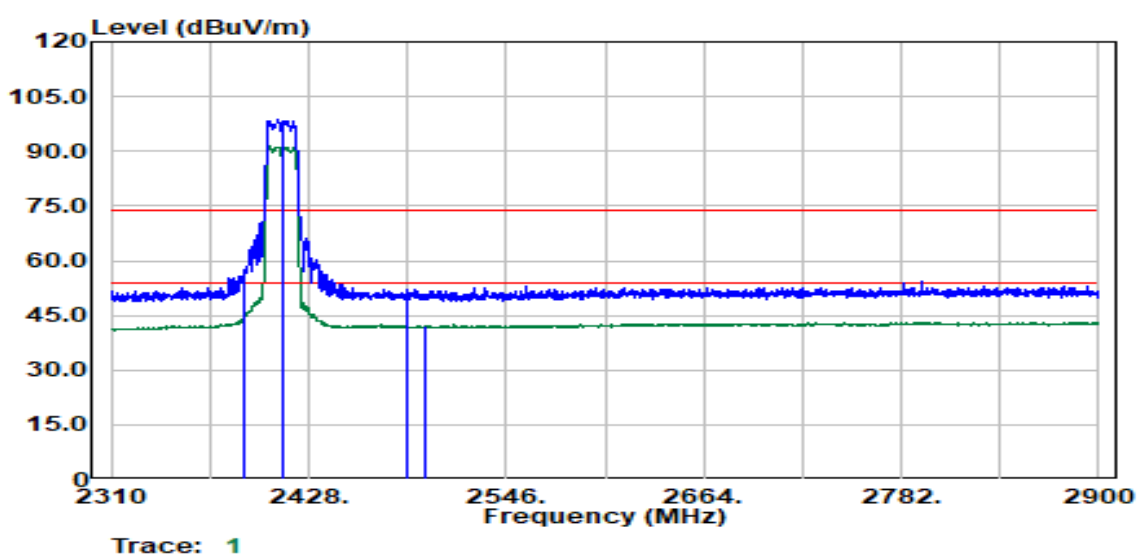
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2353.52	Peak	46.89	4.85	51.73	74.00	-22.27
2387.78	Average	37.08	4.80	41.88	54.00	-12.12
2462.00	Peak	94.73	4.66	99.39	--	--
2462.00	Average	87.63	4.66	92.29	--	--
2484.32	Average	39.91	4.60	44.51	54.00	-9.49
2490.08	Peak	54.44	4.55	58.99	74.00	-15.01

Test Mode	IEEE 802.11n HT20 2412 MHz	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Band Edge	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



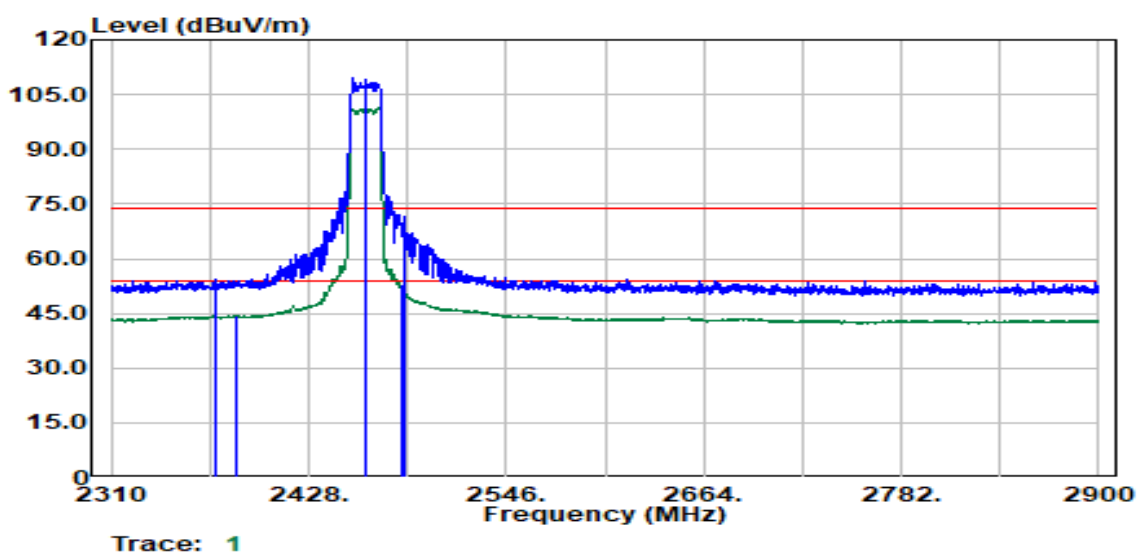
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2388.28	Peak	63.75	4.80	68.55	74.00	-5.45
2390.00	Average	48.07	4.80	52.88	54.00	-1.12
2412.00	Peak	103.94	4.54	108.48	--	--
2412.00	Average	96.66	4.54	101.19	--	--
2483.57	Average	40.89	4.61	45.50	54.00	-8.50
2489.08	Peak	50.93	4.56	55.48	74.00	-18.52

Test Mode	IEEE 802.11n HT20 2412 MHz	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Band Edge	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



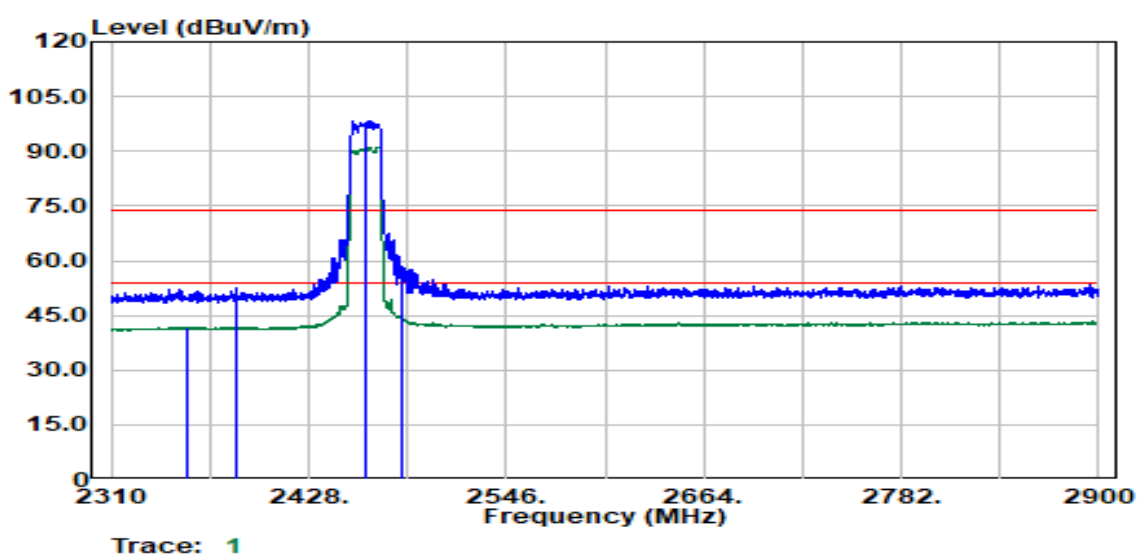
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.03	Peak	52.82	4.80	57.63	74.00	-16.37
2389.78	Average	40.04	4.80	44.84	54.00	-9.16
2412.00	Peak	94.18	4.54	98.71	--	--
2412.00	Average	86.96	4.54	91.50	--	--
2486.58	Peak	47.33	4.58	51.92	74.00	-22.08
2498.08	Average	37.53	4.63	42.16	54.00	-11.84

Test Mode	IEEE 802.11n HT20 2462 MHz	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Band Edge	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2372.03	Peak	49.57	4.71	54.28	74.00	-19.72
2384.28	Average	39.68	4.80	44.49	54.00	-9.51
2462.00	Peak	104.81	4.66	109.48	--	--
2462.00	Average	96.88	4.66	101.54	--	--
2483.82	Average	48.39	4.61	53.00	54.00	-1.00
2484.82	Peak	67.16	4.60	71.76	74.00	-2.24

Test Mode	IEEE 802.11n HT20 2462 MHz	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Band Edge	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



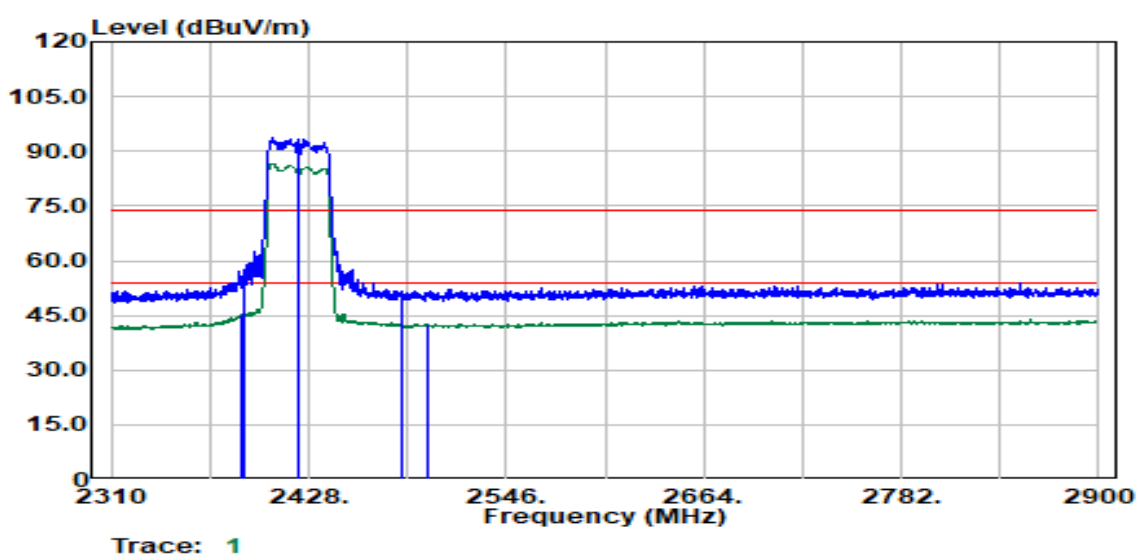
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
2355.27	Average	36.90	4.83	41.73	54.00	-12.27
2384.78	Peak	47.89	4.80	52.69	74.00	-21.31
2462.00	Peak	93.82	4.66	98.49	--	--
2462.00	Average	86.56	4.66	91.22	--	--
2483.57	Average	39.42	4.61	44.03	54.00	-9.97
2484.32	Peak	54.01	4.60	58.62	74.00	-15.38

Test Mode	IEEE 802.11n HT40 2422 MHz	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Band Edge	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



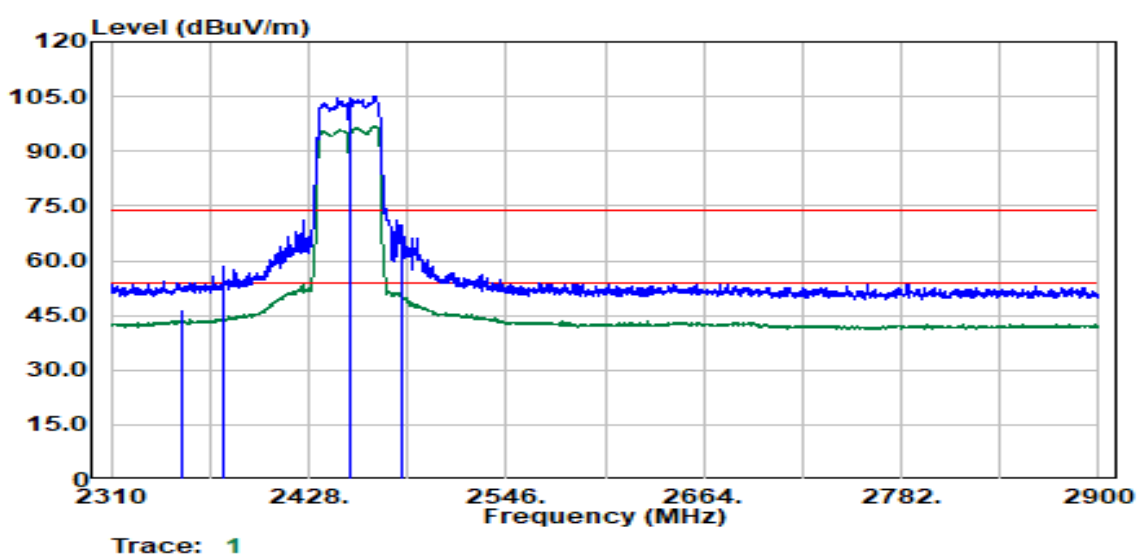
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2385.53	Average	48.16	4.80	52.96	54.00	-1.04
2386.53	Peak	60.19	4.80	64.99	74.00	-9.01
2422.00	Peak	98.89	4.62	103.51	--	--
2422.00	Average	91.44	4.62	96.06	--	--
2483.57	Average	41.87	4.61	46.48	54.00	-7.52
2489.33	Peak	53.37	4.55	57.93	74.00	-16.07

Test Mode	IEEE 802.11n HT40 2422 MHz	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Band Edge	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



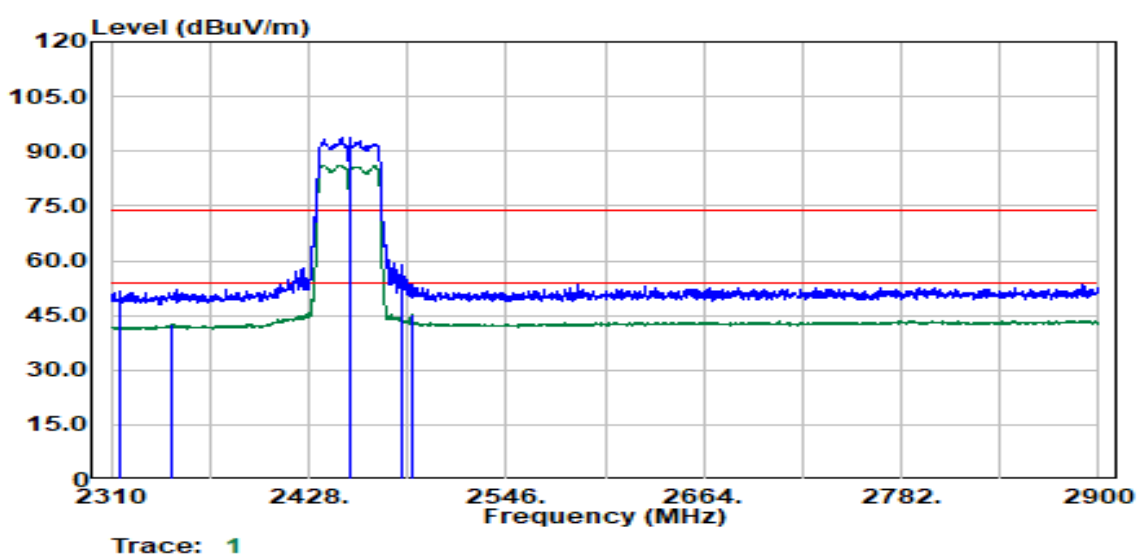
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2387.28	Average	40.37	4.80	45.17	54.00	-8.83
2390.00	Peak	52.73	4.80	57.53	74.00	-16.47
2422.00	Peak	89.05	4.62	93.68	--	--
2422.00	Average	81.98	4.62	86.60	--	--
2484.32	Peak	47.20	4.60	51.80	74.00	-22.20
2499.08	Average	38.06	4.64	42.70	54.00	-11.30

Test Mode	IEEE 802.11n HT40 2452 MHz	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Band Edge	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2352.52	Average	41.94	4.86	46.80	54.00	-7.20
2376.28	Peak	54.20	4.76	58.96	74.00	-15.04
2452.00	Peak	100.51	4.56	105.07	--	--
2452.00	Average	93.36	4.56	97.92	--	--
2483.82	Average	48.40	4.61	53.01	54.00	-0.99
2484.32	Peak	65.37	4.60	69.97	74.00	-4.03

Test Mode	IEEE 802.11n HT40 2452 MHz	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Band Edge	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

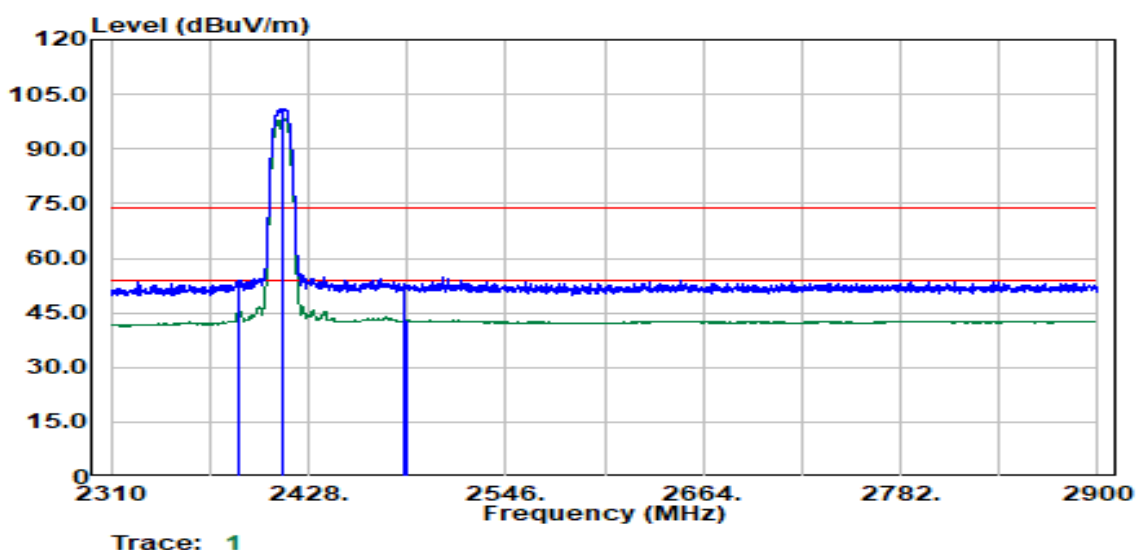


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2314.50	Peak	47.36	4.71	52.07	74.00	-21.93
2346.02	Average	37.68	4.84	42.52	54.00	-11.48
2452.00	Peak	89.62	4.56	94.18	--	--
2452.00	Average	81.54	4.56	86.10	--	--
2483.57	Peak	54.56	4.61	59.17	74.00	-14.83
2489.33	Average	40.70	4.55	45.25	54.00	-8.75

Band Edge Test Data

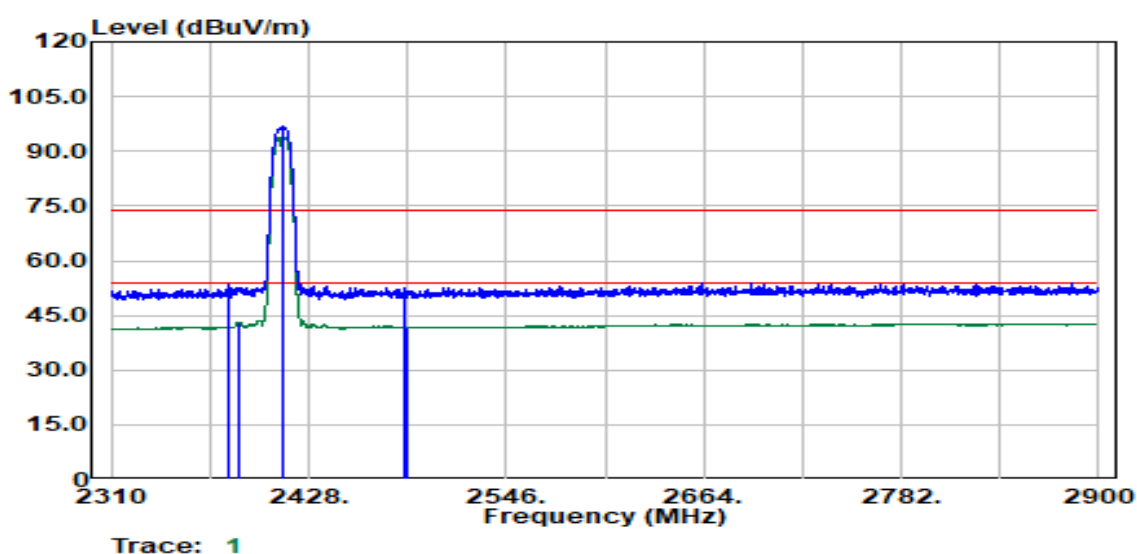
Test Mode: Mode 2 (PIFA Antenna)

Test Mode	IEEE 802.11b 2412 MHz	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Band Edge	Test Date	June 7, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



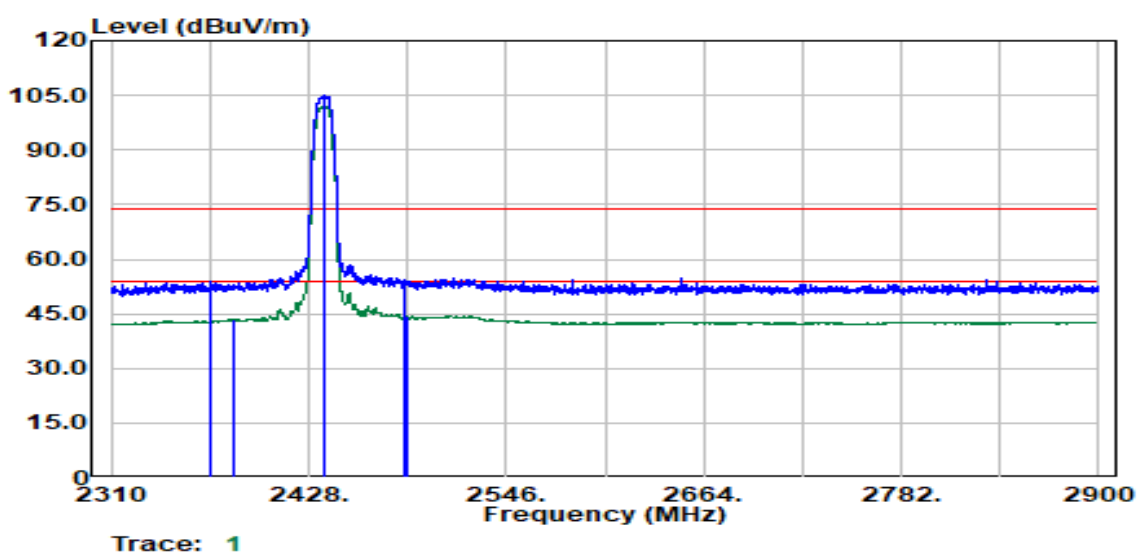
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2386.03	Peak	49.25	4.80	54.06	74.00	-19.94
2387.03	Average	40.51	4.80	45.32	54.00	-8.68
2412.00	Peak	96.38	4.54	100.92	--	--
2412.00	Average	93.58	4.54	98.11	--	--
2484.57	Peak	48.49	4.60	53.09	74.00	-20.91
2487.08	Average	38.28	4.58	42.85	54.00	-11.15

Test Mode	IEEE 802.11b 2412 MHz	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Band Edge	Test Date	June 7, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



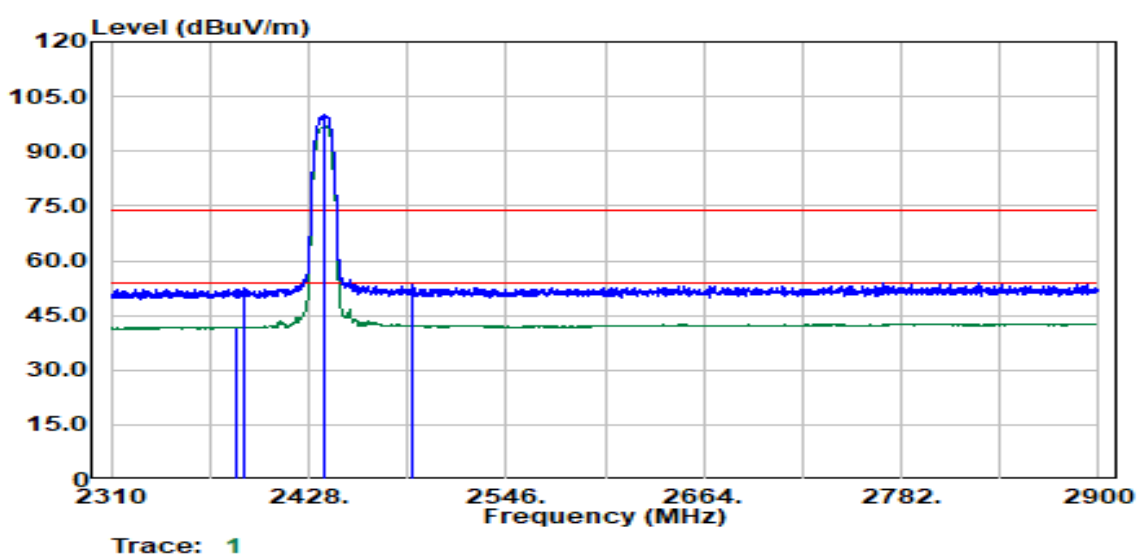
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
2379.53	Peak	48.58	4.79	53.37	74.00	-20.63
2386.53	Average	38.37	4.80	43.17	54.00	-10.83
2412.00	Peak	92.33	4.54	96.87	--	--
2412.00	Average	89.24	4.54	93.78	--	--
2485.82	Peak	47.88	4.59	52.47	74.00	-21.53
2486.58	Average	37.16	4.58	41.74	54.00	-12.26

Test Mode	IEEE 802.11b 2437 MHz	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Band Edge	Test Date	June 7, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



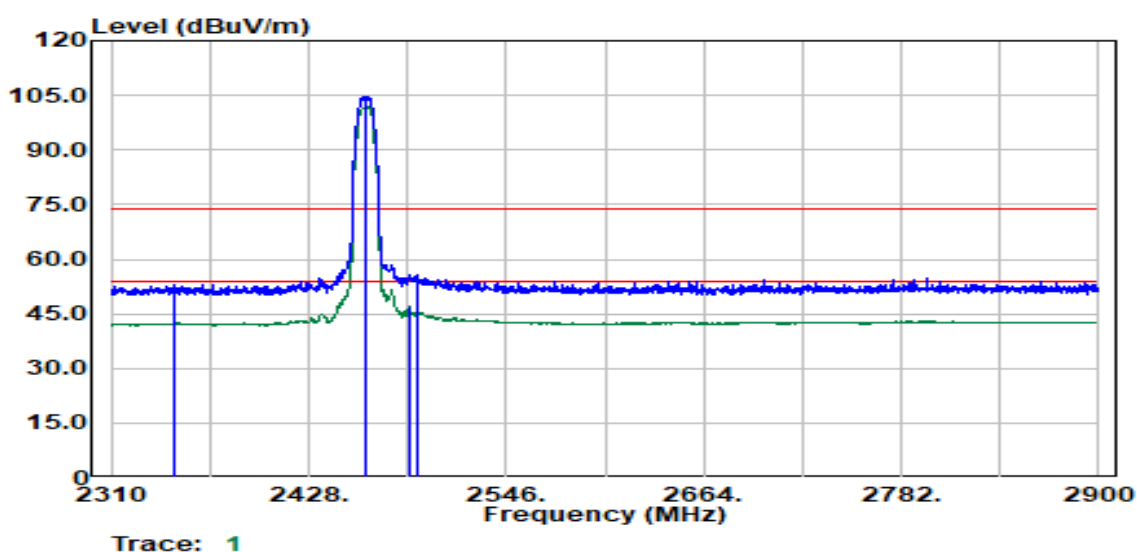
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2369.28	Peak	49.29	4.70	53.98	74.00	-20.02
2382.78	Average	38.65	4.80	43.45	54.00	-10.55
2437.00	Peak	100.29	4.56	104.85	--	--
2437.00	Average	97.40	4.56	101.96	--	--
2485.82	Peak	49.54	4.59	54.12	74.00	-19.88
2486.08	Average	39.85	4.59	44.43	54.00	-9.57

Test Mode	IEEE 802.11b 2437 MHz	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Band Edge	Test Date	June 7, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



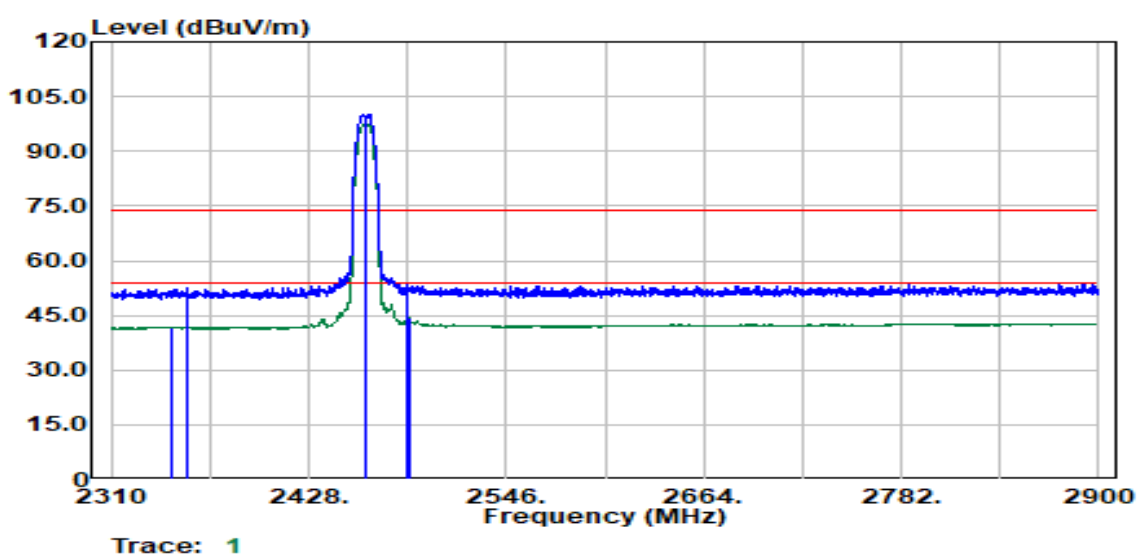
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2384.53	Average	37.02	4.80	41.82	54.00	-12.18
2390.03	Peak	47.68	4.80	52.48	74.00	-21.52
2437.00	Peak	95.31	4.56	99.87	--	--
2437.00	Average	92.30	4.56	96.86	--	--
2489.83	Peak	48.85	4.55	53.40	74.00	-20.60
2490.08	Average	37.75	4.55	42.30	54.00	-11.70

Test Mode	IEEE 802.11b 2462 MHz	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Band Edge	Test Date	June 7, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



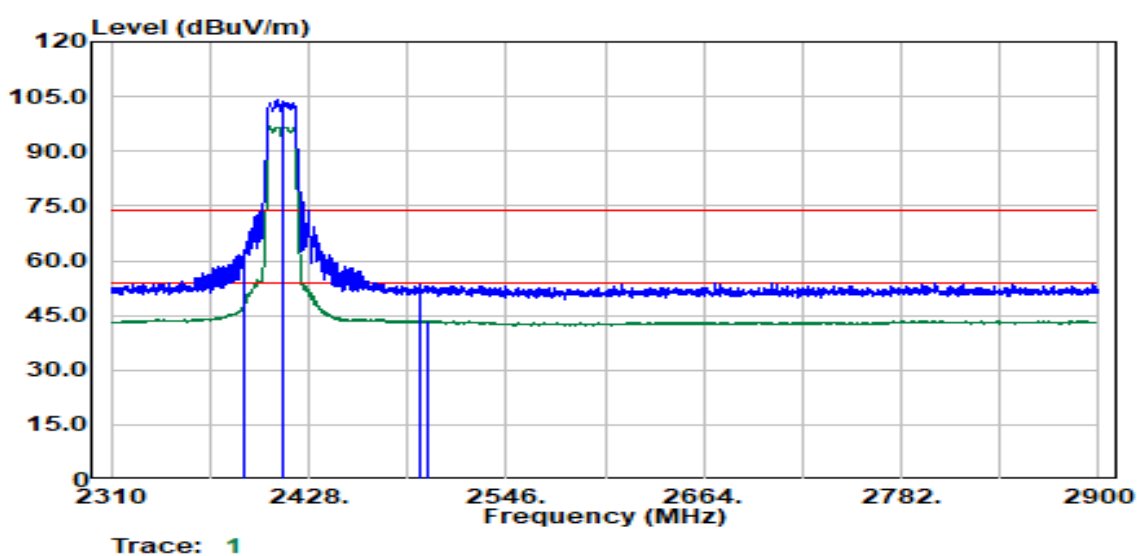
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
2347.27	Average	37.55	4.85	42.40	54.00	-11.60
2347.77	Peak	48.10	4.86	52.96	74.00	-21.04
2462.06	Peak	99.18	4.66	103.84	--	--
2462.06	Average	94.33	4.66	98.99	--	--
2488.33	Average	42.38	4.56	46.94	54.00	-7.06
2492.83	Peak	51.22	4.58	55.80	74.00	-18.20

Test Mode	IEEE 802.11b 2462 MHz	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Band Edge	Test Date	June 7, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



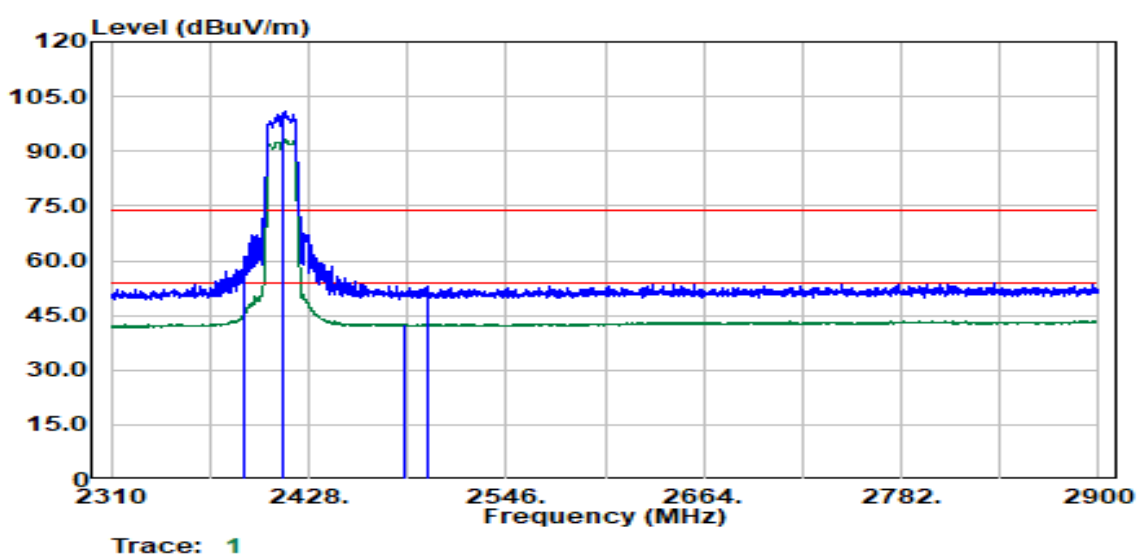
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2346.52	Average	36.87	4.84	41.71	54.00	-12.29
2355.52	Peak	47.89	4.83	52.72	74.00	-21.28
2462.00	Peak	95.36	4.66	100.02	--	--
2462.00	Average	92.56	4.66	97.22	--	--
2486.33	Peak	48.69	4.58	53.27	74.00	-20.73
2488.33	Average	39.63	4.56	44.19	54.00	-9.81

Test Mode	IEEE 802.11g 2412 MHz	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Band Edge	Test Date	June 8, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



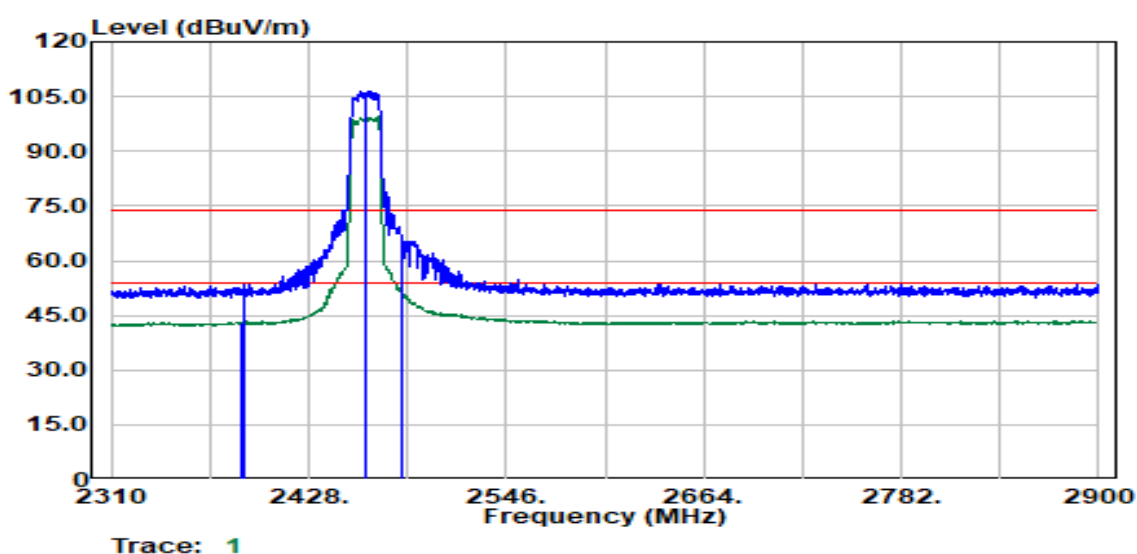
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2390.03	Peak	57.81	4.80	62.61	74.00	-11.39
2390.03	Average	44.05	4.80	48.86	54.00	-5.14
2412.00	Peak	99.56	4.54	104.10	--	--
2412.00	Average	92.15	4.54	96.69	--	--
2494.83	Peak	49.06	4.60	53.66	74.00	-20.34
2499.83	Average	38.97	4.65	43.61	54.00	-10.39

Test Mode	IEEE 802.11g 2412 MHz	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Band Edge	Test Date	June 8, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



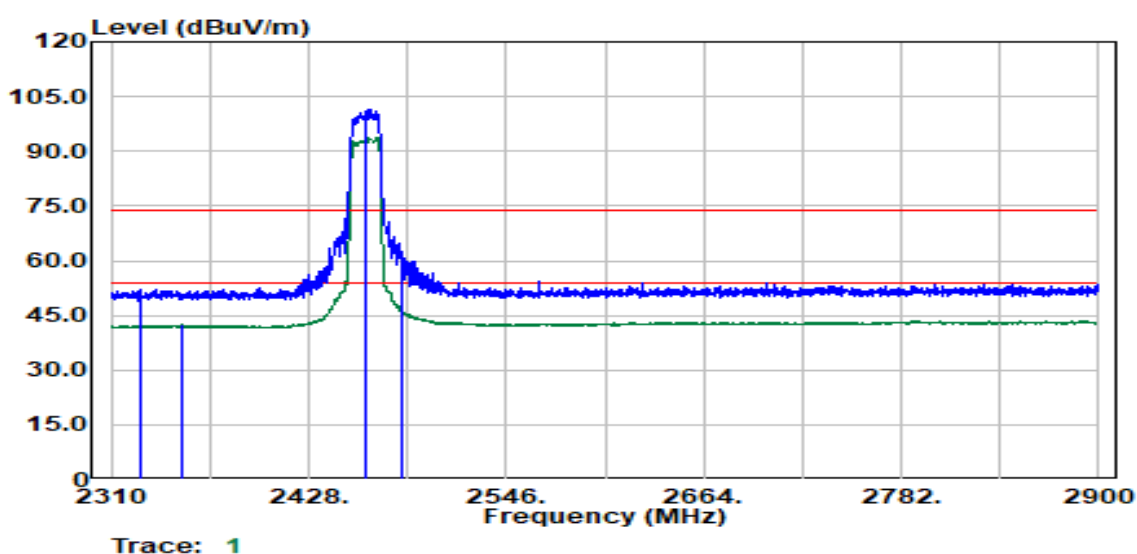
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2390.03	Peak	56.16	4.80	60.96	74.00	-13.04
2390.03	Average	40.93	4.80	45.74	54.00	-8.26
2412.00	Peak	96.57	4.54	101.10	--	--
2412.00	Average	88.56	4.54	93.10	--	--
2485.57	Average	37.90	4.59	42.49	54.00	-11.51
2498.58	Peak	48.12	4.64	52.76	74.00	-21.24

Test Mode	IEEE 802.11g 2462 MHz	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Band Edge	Test Date	June 8, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



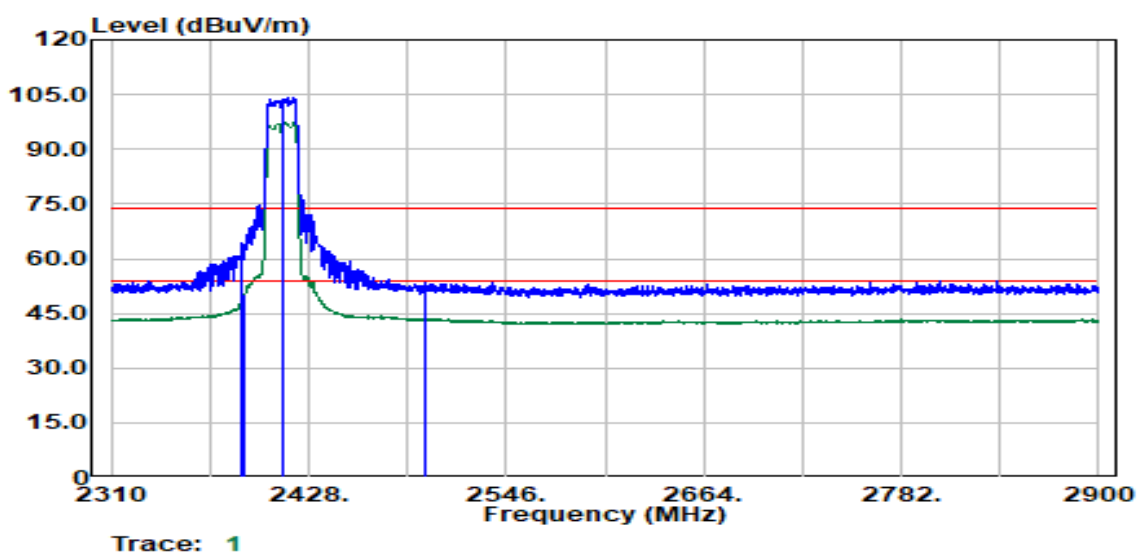
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
2387.78	Average	38.34	4.80	43.14	54.00	-10.86
2389.03	Peak	48.53	4.80	53.34	74.00	-20.66
2462.00	Peak	101.82	4.66	106.49	--	--
2462.00	Average	94.84	4.66	99.51	--	--
2483.57	Peak	62.57	4.61	67.18	74.00	-6.82
2483.57	Average	46.61	4.61	51.22	54.00	-2.78

Test Mode	IEEE 802.11g 2462 MHz	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Band Edge	Test Date	June 8, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



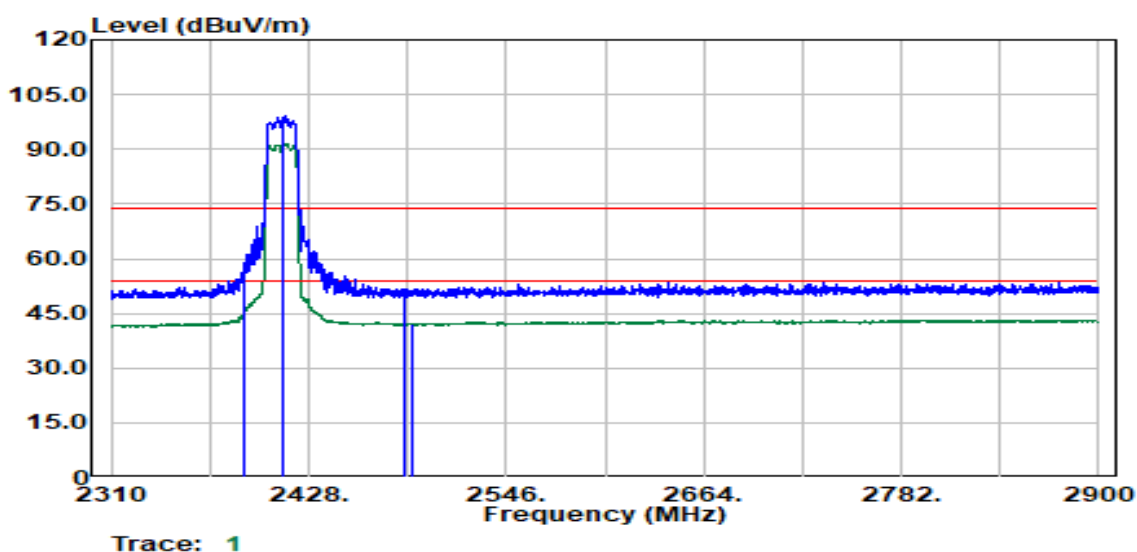
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2327.76	Peak	47.54	4.66	52.20	74.00	-21.80
2351.77	Average	37.61	4.86	42.47	54.00	-11.53
2462.00	Peak	96.79	4.66	101.46	--	--
2462.00	Average	89.20	4.66	93.86	--	--
2483.57	Peak	56.29	4.61	60.90	74.00	-13.10
2483.82	Average	41.63	4.61	46.24	54.00	-7.76

Test Mode	IEEE 802.11n HT20 2412 MHz	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Band Edge	Test Date	June 8, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



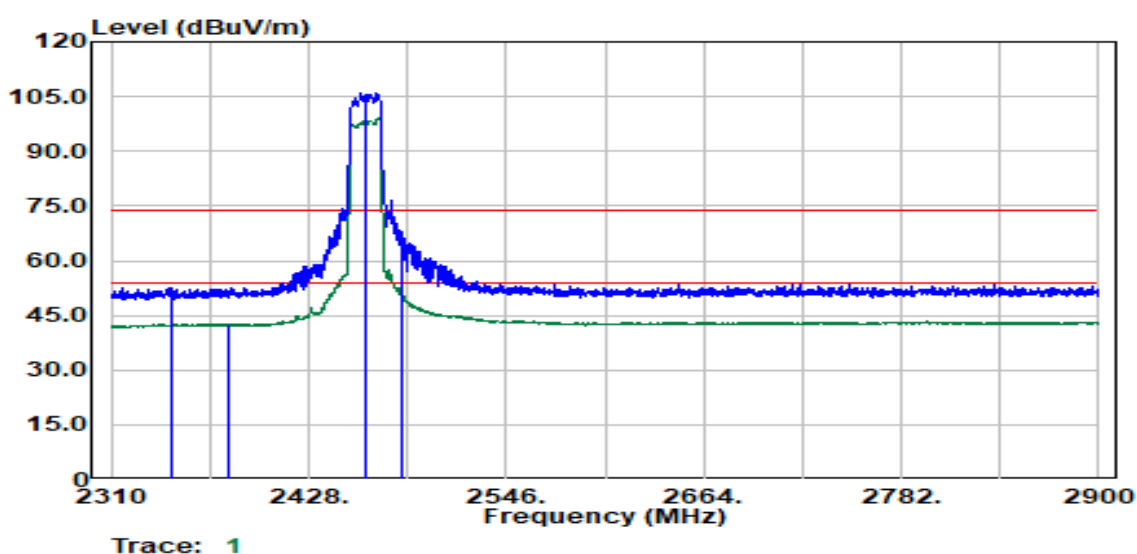
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2388.28	Peak	59.63	4.80	64.43	74.00	-9.57
2390.03	Average	45.62	4.80	50.43	54.00	-3.57
2412.00	Peak	99.77	4.54	104.31	--	--
2412.00	Average	93.15	4.54	97.69	--	--
2497.08	Average	39.10	4.62	43.72	54.00	-10.28
2498.33	Peak	48.86	4.63	53.49	74.00	-20.51

Test Mode	IEEE 802.11n HT20 2412 MHz	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Band Edge	Test Date	June 8, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



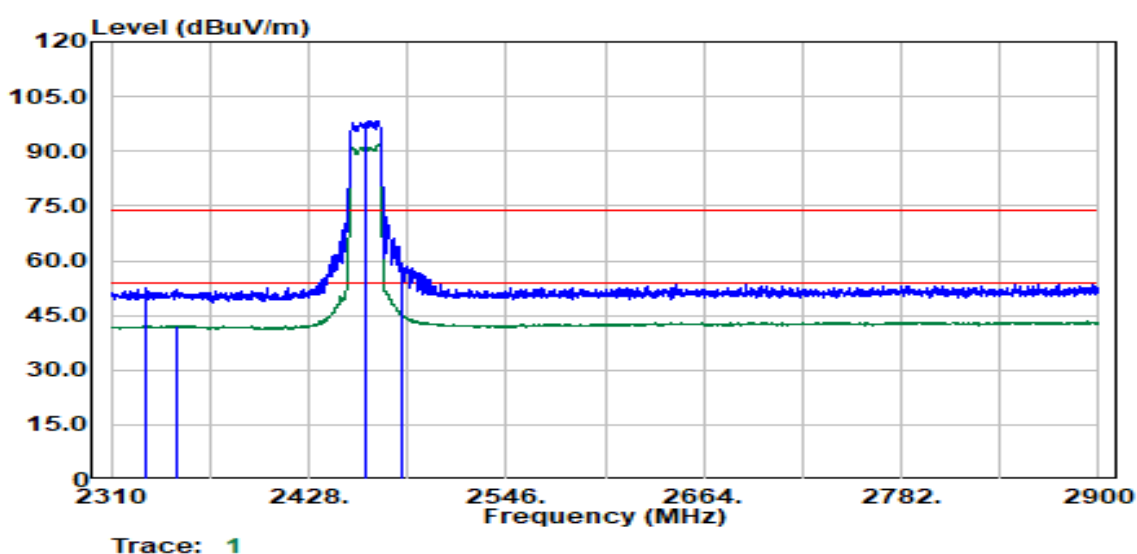
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.53	Peak	52.42	4.80	57.23	74.00	-16.77
2390.03	Average	40.53	4.80	45.33	54.00	-8.67
2412.00	Peak	94.59	4.54	99.13	--	--
2412.00	Average	86.94	4.54	91.48	--	--
2485.32	Peak	47.24	4.59	51.83	74.00	-22.17
2489.33	Average	37.69	4.55	42.24	54.00	-11.76

Test Mode	IEEE 802.11n HT20 2462 MHz	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Band Edge	Test Date	June 8, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



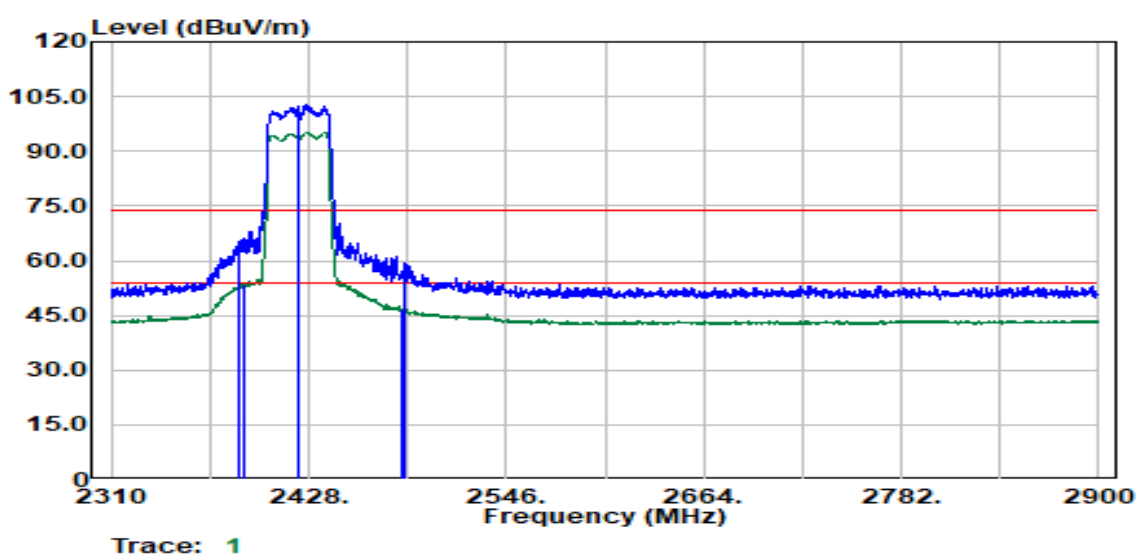
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
2346.77	Peak	47.90	4.85	52.74	74.00	-21.26
2379.78	Average	37.89	4.80	42.68	54.00	-11.32
2462.00	Peak	101.51	4.66	106.18	--	--
2462.00	Average	94.37	4.66	99.04	--	--
2483.57	Peak	61.52	4.61	66.13	74.00	-7.87
2484.32	Average	45.90	4.60	50.50	54.00	-3.50

Test Mode	IEEE 802.11n HT20 2462 MHz	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Band Edge	Test Date	June 8, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



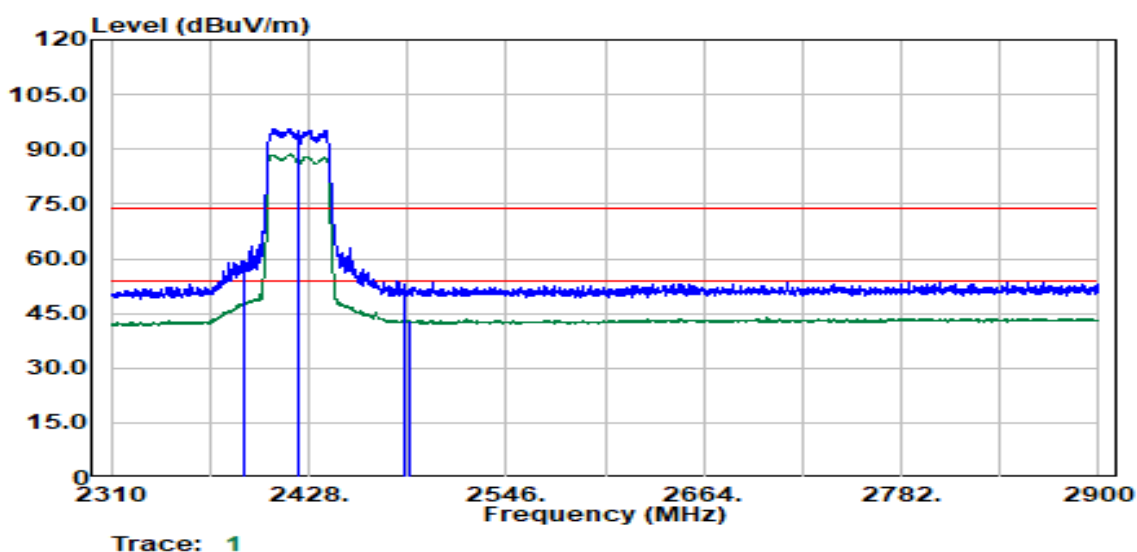
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
2330.76	Peak	47.64	4.67	52.32	74.00	-21.68
2348.52	Average	37.28	4.86	42.14	54.00	-11.86
2462.00	Peak	93.68	4.66	98.34	--	--
2462.00	Average	87.33	4.66	91.99	--	--
2483.82	Peak	54.65	4.61	59.26	74.00	-14.74
2484.07	Average	40.57	4.61	45.18	54.00	-8.82

Test Mode	IEEE 802.11n HT40 2422 MHz	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Band Edge	Test Date	June 8, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



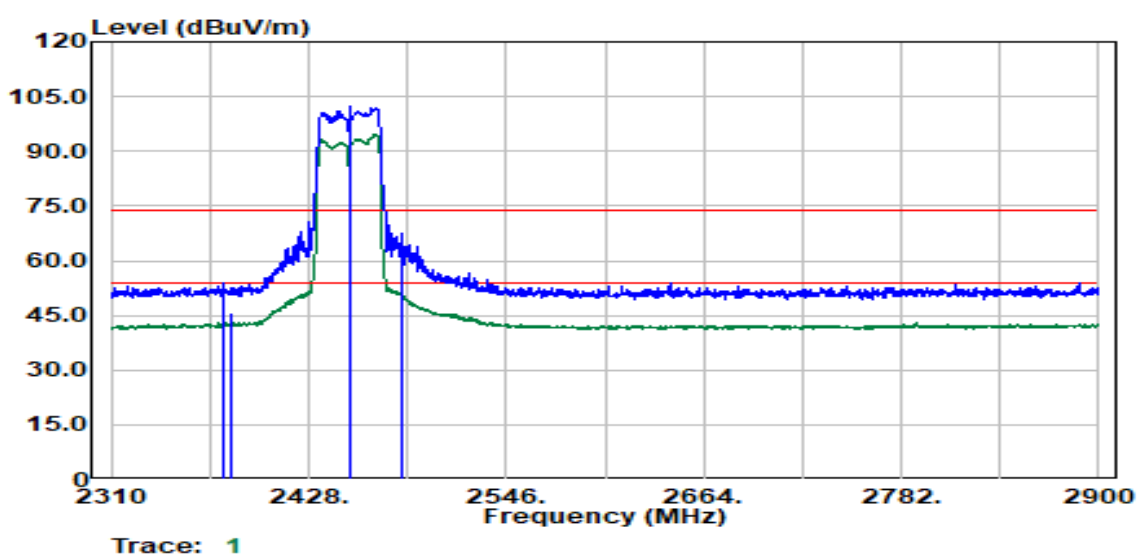
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2386.78	Peak	60.84	4.80	65.64	74.00	-8.36
2388.78	Average	48.50	4.80	53.31	54.00	-0.69
2422.00	Peak	98.01	4.62	102.63	--	--
2422.00	Average	90.47	4.62	95.09	--	--
2483.82	Average	41.89	4.61	46.50	54.00	-7.50
2485.57	Peak	55.03	4.59	59.63	74.00	-14.37

Test Mode	IEEE 802.11n HT40 2422 MHz	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Band Edge	Test Date	June 8, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



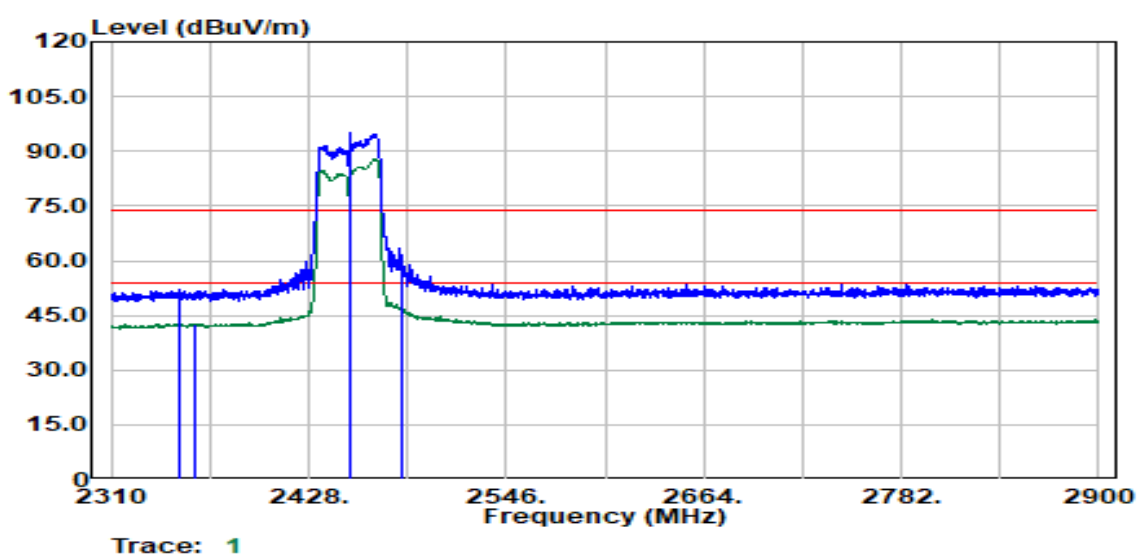
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.28	Peak	54.55	4.80	59.35	74.00	-14.65
2390.03	Average	43.34	4.80	48.14	54.00	-5.86
2422.00	Peak	91.14	4.62	95.77	--	--
2422.00	Average	83.91	4.62	88.54	--	--
2485.82	Peak	48.27	4.59	52.86	74.00	-21.14
2488.33	Average	38.59	4.56	43.15	54.00	-10.85

Test Mode	IEEE 802.11n HT40 2452 MHz	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Band Edge	Test Date	June 8, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2377.78	Peak	49.43	4.77	54.20	74.00	-19.80
2382.28	Average	40.98	4.80	45.78	54.00	-8.22
2452.00	Peak	98.07	4.56	102.63	--	--
2452.00	Average	90.92	4.56	95.48	--	--
2483.82	Peak	63.19	4.61	67.80	74.00	-6.20
2484.07	Average	48.21	4.61	52.82	54.00	-1.18

Test Mode	IEEE 802.11n HT40 2452 MHz	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Band Edge	Test Date	June 8, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

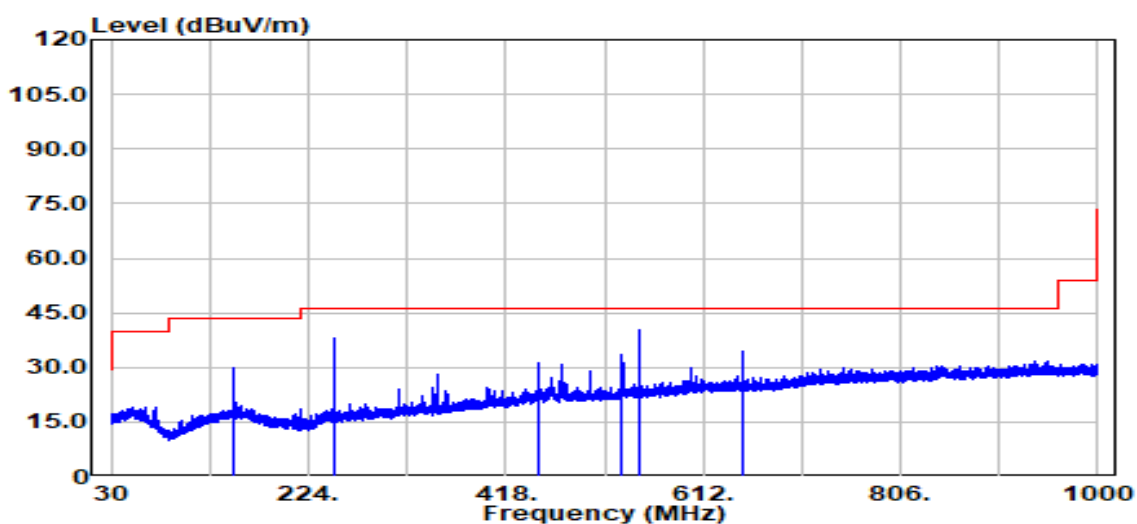


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2350.02	Peak	47.09	4.88	51.97	74.00	-22.03
2360.27	Average	37.87	4.78	42.65	54.00	-11.35
2452.00	Peak	91.09	4.56	95.65	--	--
2452.00	Average	84.31	4.56	88.88	--	--
2483.57	Average	42.17	4.61	46.78	54.00	-7.22
2483.82	Peak	57.05	4.61	61.66	74.00	-12.34

Below 1G Test Data:

Test Mode: Mode 1 (Dipole Antenna)

Test Mode	IEEE 802.11b 2412 MHz	Temp/Hum	26.0(°C)/ 59%RH
Test Item	30MHz-1GHz	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak		

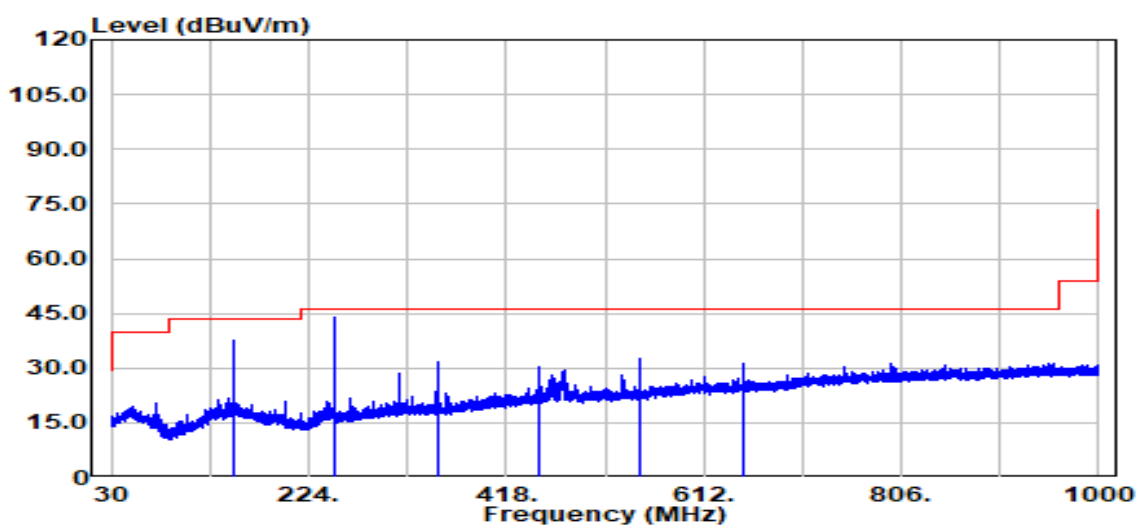


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
149.99	Peak	42.77	-12.86	29.90	43.50	-13.60
250.00	Peak	52.23	-14.00	38.23	46.00	-7.77
450.01	Peak	39.46	-8.31	31.15	46.00	-14.85
531.01	Peak	40.48	-6.89	33.59	46.00	-12.41
550.02	Peak	47.05	-6.69	40.36	46.00	-5.64
650.02	Peak	38.62	-4.30	34.32	46.00	-11.68

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

Report No.: TMWK2307002174KR

Test Mode	IEEE 802.11b 2412 MHz	Temp/Hum	26.0(°C)/ 59%RH
Test Item	30MHz-1GHz	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak		

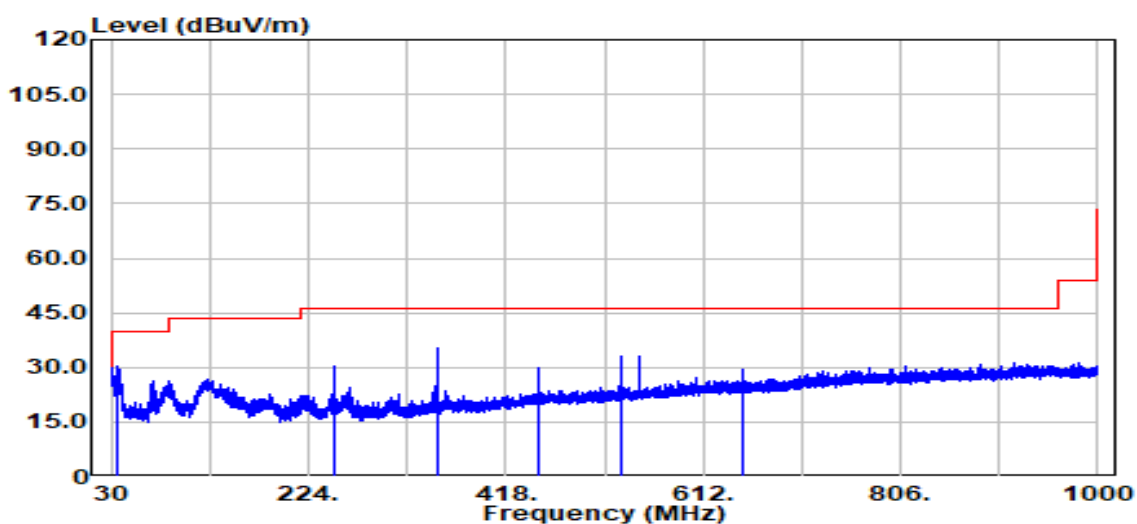


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
149.99	Peak	50.25	-12.86	37.39	43.50	-6.11
250.00	Peak	58.05	-14.00	44.05	46.00	-1.95
350.00	Peak	42.81	-11.18	31.63	46.00	-14.37
450.01	Peak	38.64	-8.31	30.34	46.00	-15.66
550.02	Peak	39.45	-6.69	32.77	46.00	-13.23
650.02	Peak	35.58	-4.30	31.28	46.00	-14.72

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

Test Mode: Mode 2 (PIFA Antenna)

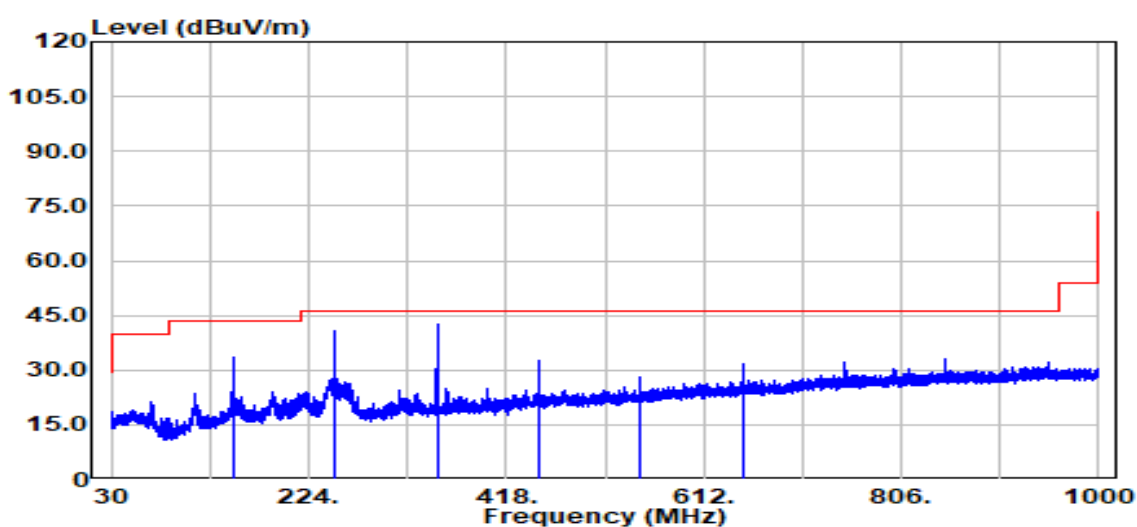
Test Mode	IEEE 802.11n HT40 2422 MHz	Temp/Hum	24.1(°C)/ 61%RH
Test Item	30MHz-1GHz	Test Date	June 6, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
36.98	Peak	43.99	-13.78	30.21	40.00	-9.79
250.00	Peak	44.39	-14.00	30.39	46.00	-15.61
350.00	Peak	46.55	-11.18	35.37	46.00	-10.63
450.01	Peak	38.06	-8.31	29.75	46.00	-16.25
532.46	Peak	40.12	-6.86	33.27	46.00	-12.73
650.02	Peak	33.52	-4.30	29.22	46.00	-16.78

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

Test Mode	IEEE 802.11n HT40 2422 MHz	Temp/Hum	24.1(°C)/ 61%RH
Test Item	30MHz-1GHz	Test Date	June 6, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak		



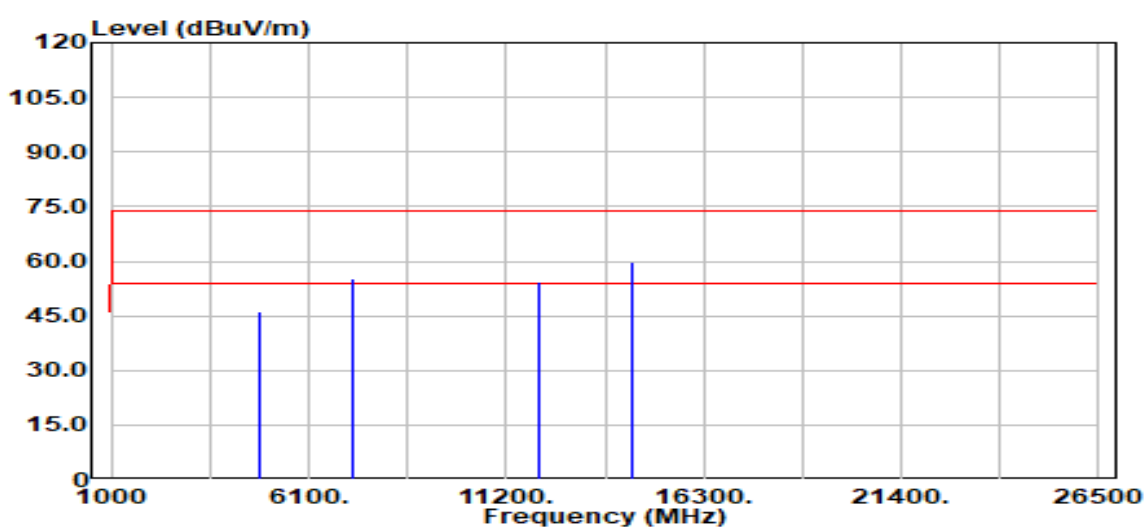
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
149.99	Peak	46.19	-12.86	33.33	43.50	-10.17
250.00	Peak	54.88	-14.00	40.88	46.00	-5.12
350.00	Peak	53.91	-11.18	42.73	46.00	-3.27
450.01	Peak	40.76	-8.31	32.45	46.00	-13.55
550.02	Peak	34.58	-6.69	27.89	46.00	-18.11
650.02	Peak	36.06	-4.30	31.76	46.00	-14.24

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

Above 1G Test Data

Test Mode: Mode 1 (Dipole Antenna)

Test Mode	IEEE 802.11b Low CH	Temp/Hum	24.5(°C)/ 62%RH
Test Item	Harmonic	Test Date	May 31, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

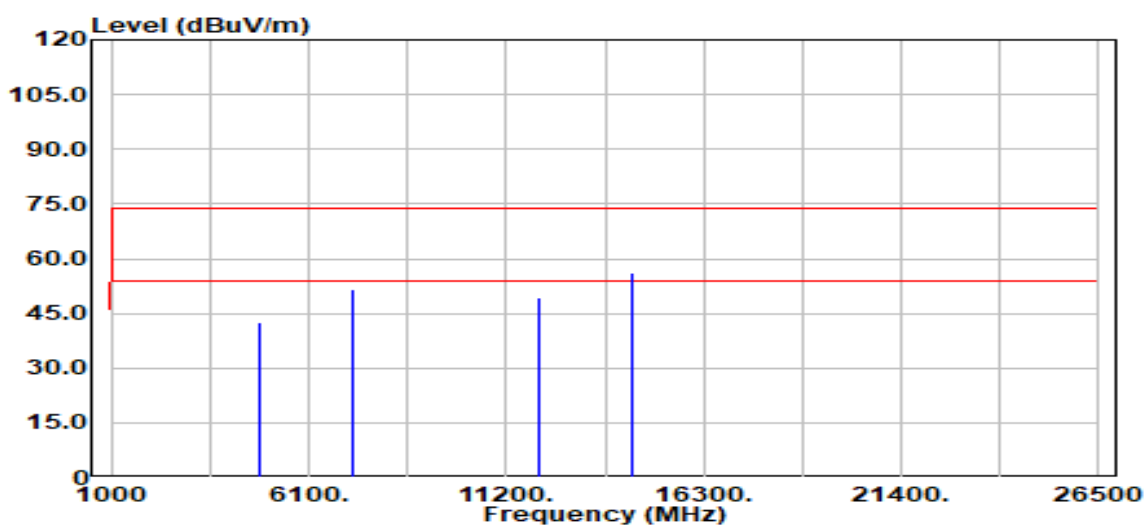


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	45.76	0.40	46.16	74.00	-27.84
4824.00	Average	36.56	0.40	36.97	54.00	-17.03
7236.00	Peak	49.71	5.36	55.08	74.00	-18.92
7236.00	Average	42.18	5.36	47.54	54.00	-6.46
12060.00	Peak	49.12	5.14	54.25	74.00	-19.75
12060.00	Average	42.80	5.14	47.94	54.00	-6.06
14472.00	Peak	53.44	6.43	59.87	74.00	-14.13
14472.00	Average	46.72	6.43	53.16	54.00	-0.84

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b Low CH	Temp/Hum	24.5(°C)/ 62%RH
Test Item	Harmonic	Test Date	May 31, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

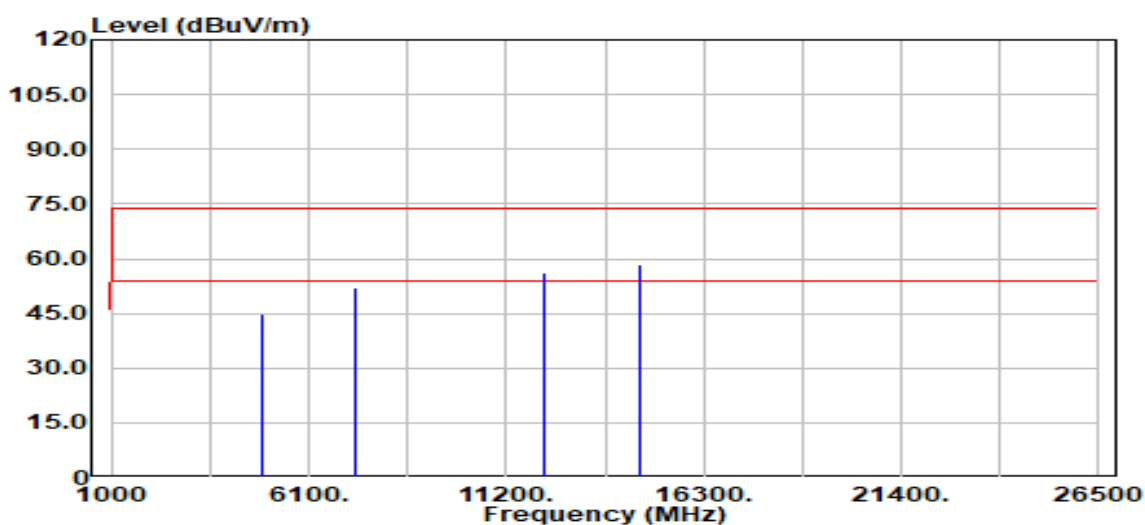


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	42.34	0.40	42.74	74.00	-31.26
4824.00	Average	31.88	0.40	32.28	54.00	-21.72
7236.00	Peak	46.14	5.36	51.50	74.00	-22.50
7236.00	Average	37.06	5.36	42.43	54.00	-11.57
12060.00	Peak	44.34	5.14	49.47	74.00	-24.53
12060.00	Average	38.08	5.14	43.21	54.00	-10.79
14472.00	Peak	49.79	6.43	56.22	74.00	-17.78
14472.00	Average	41.73	6.43	48.17	54.00	-5.83

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	24.5(°C)/ 62%RH
Test Item	Harmonic	Test Date	May 31, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

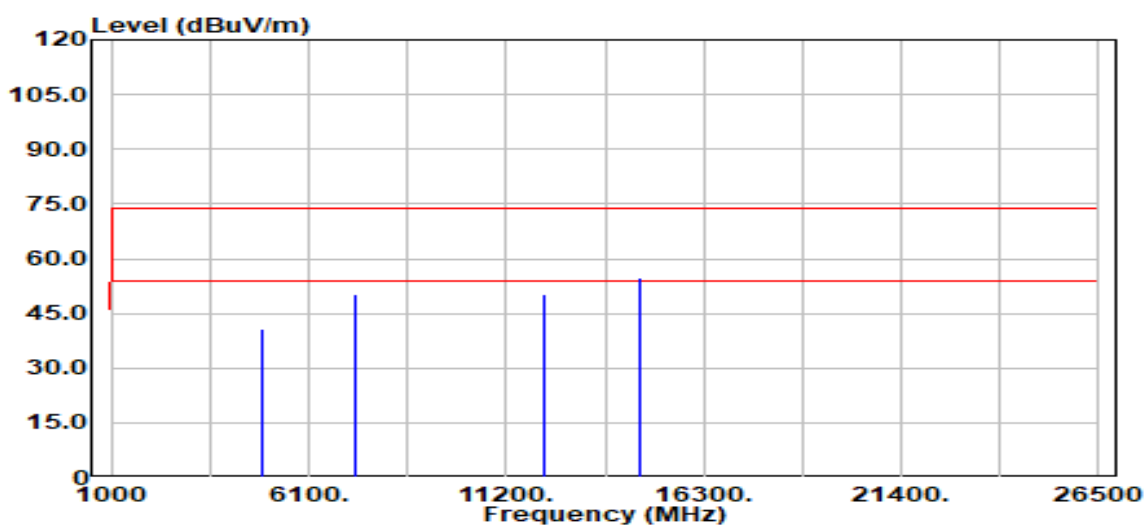


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	44.43	0.47	44.90	74.00	-29.10
4874.00	Average	40.80	0.47	41.28	54.00	-12.72
7311.00	Peak	46.42	5.49	51.91	74.00	-22.09
7311.00	Average	45.00	5.49	50.49	54.00	-3.51
12185.00	Peak	51.26	5.11	56.38	74.00	-17.62
12185.00	Average	46.50	5.11	51.61	54.00	-2.39
14622.00	Peak	51.69	6.91	58.60	89.45	-30.85
14622.00	Average	50.30	6.91	57.21	86.62	-29.41

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	24.5(°C)/ 62%RH
Test Item	Harmonic	Test Date	May 31, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

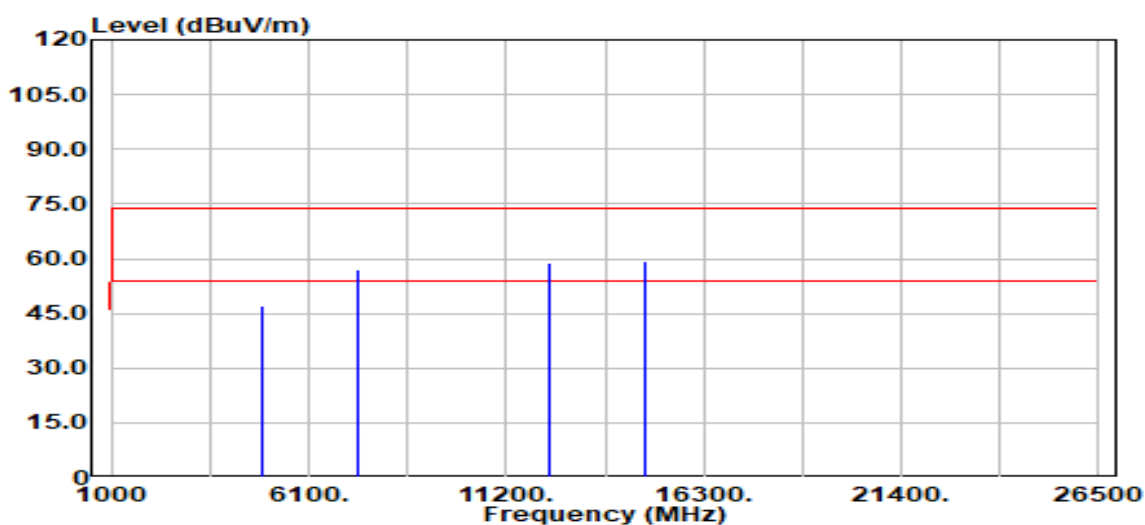


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	40.24	0.47	40.71	74.00	-33.29
4874.00	Average	34.68	0.47	35.15	54.00	-18.85
7311.00	Peak	44.97	5.49	50.46	74.00	-23.54
7311.00	Average	38.22	5.49	43.71	54.00	-10.29
12185.00	Peak	45.36	5.11	50.47	74.00	-23.53
12185.00	Average	39.29	5.11	44.40	54.00	-9.60
14622.00	Peak	47.86	6.91	54.77	79.36	-24.59
14622.00	Average	45.55	6.91	52.46	76.66	-24.20

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b High CH	Temp/Hum	24.5(°C)/ 62%RH
Test Item	Harmonic	Test Date	May 31, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

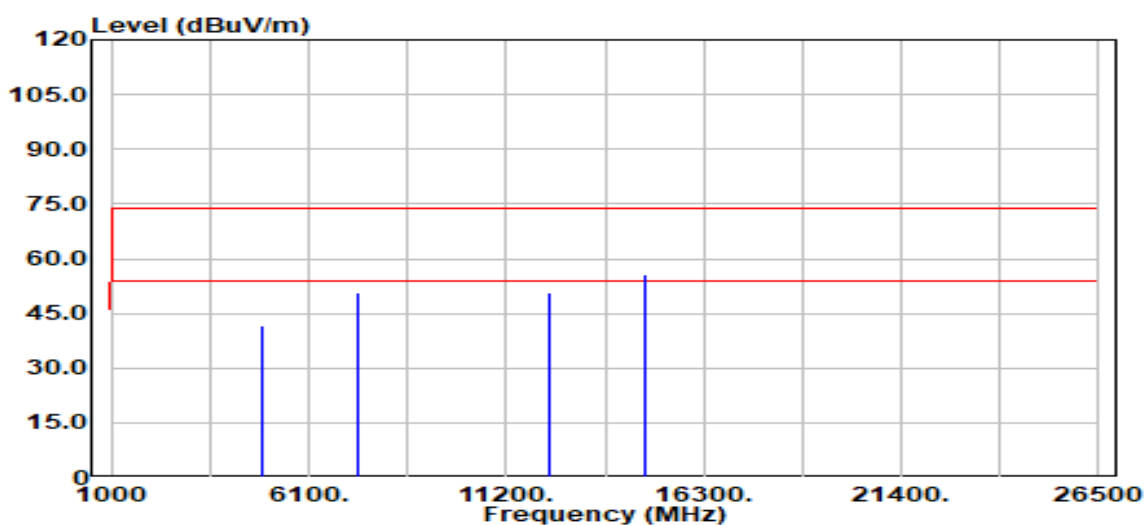


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	46.41	0.56	46.97	74.00	-27.03
4924.00	Average	41.13	0.56	41.68	54.00	-12.32
7386.00	Peak	51.55	5.63	57.18	74.00	-16.82
7386.00	Average	46.65	5.63	52.27	54.00	-1.73
12310.00	Peak	53.94	4.97	58.91	74.00	-15.09
12310.00	Average	48.16	4.97	53.13	54.00	-0.87
14772.00	Peak	52.40	7.03	59.44	90.18	-30.74
14772.00	Average	49.42	7.03	56.45	87.27	-30.82

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b High CH	Temp/Hum	24.5(°C)/ 62%RH
Test Item	Harmonic	Test Date	May 31, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

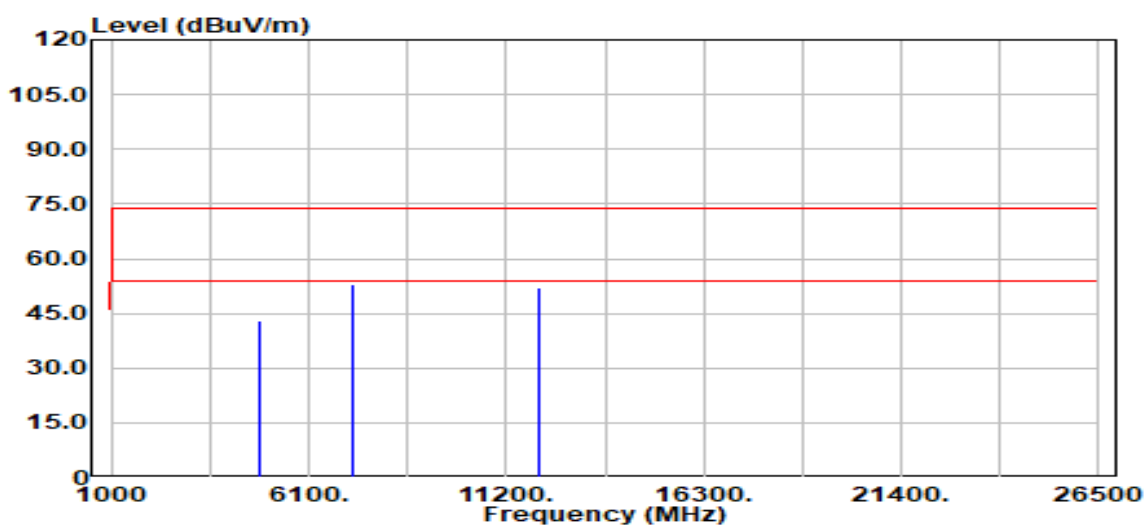


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	41.08	0.56	41.64	74.00	-32.36
4924.00	Average	32.89	0.56	33.45	54.00	-20.55
7386.00	Peak	44.98	5.63	50.61	74.00	-23.39
7386.00	Average	39.13	5.63	44.75	54.00	-9.25
12310.00	Peak	45.58	4.97	50.55	74.00	-23.45
12310.00	Average	39.37	4.97	44.34	54.00	-9.66
14772.00	Peak	48.51	7.03	55.54	79.75	-24.21
14772.00	Average	45.12	7.03	52.16	76.93	-24.77

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g Low CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

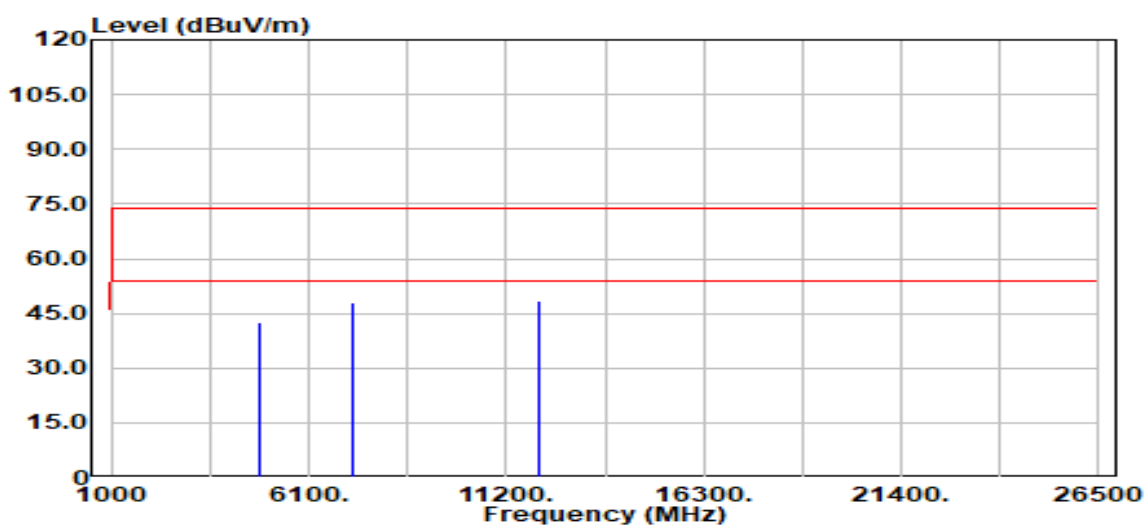


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	42.63	0.40	43.04	74.00	-30.96
4824.00	Average	32.71	0.40	33.12	54.00	-20.88
7236.00	Peak	47.69	5.36	53.06	74.00	-20.94
7236.00	Average	39.67	5.36	45.03	54.00	-8.97
12060.00	Peak	46.81	5.14	51.94	74.00	-22.06
12060.00	Average	38.54	5.14	43.68	54.00	-10.32

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g Low CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

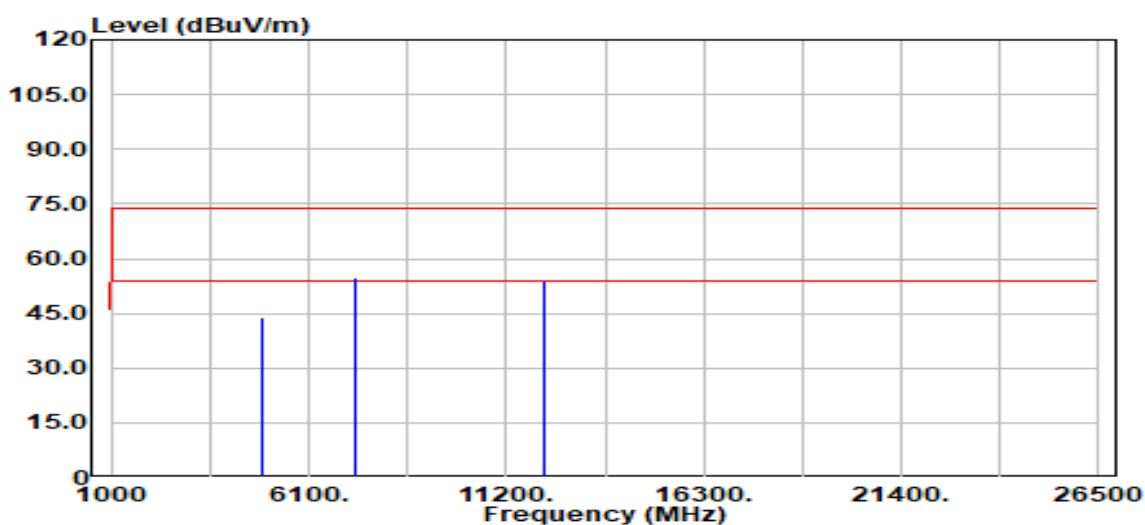


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	42.17	0.40	42.58	74.00	-31.42
4824.00	Average	31.38	0.40	31.78	54.00	-22.22
7236.00	Peak	42.71	5.36	48.07	74.00	-25.93
7236.00	Average	34.88	5.36	40.24	54.00	-13.76
12060.00	Peak	43.33	5.14	48.47	74.00	-25.53
12060.00	Average	34.00	5.14	39.14	54.00	-14.86

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

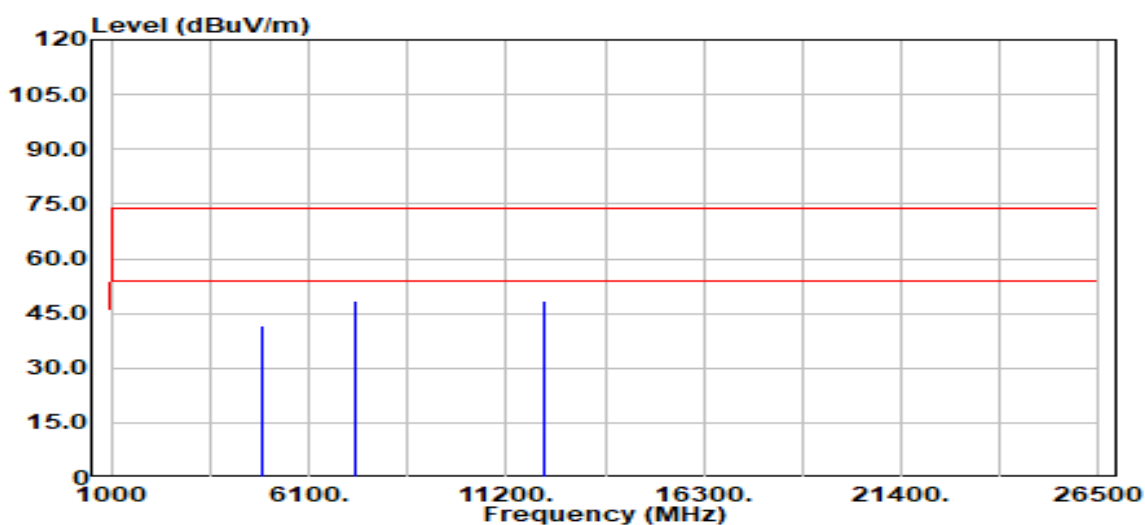


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	43.31	0.47	43.78	74.00	-30.22
4874.00	Average	34.16	0.47	34.63	54.00	-19.37
7311.00	Peak	49.21	5.49	54.70	74.00	-19.30
7311.00	Average	39.89	5.49	45.38	54.00	-8.62
12185.00	Peak	48.92	5.11	54.04	74.00	-19.96
12185.00	Average	39.94	5.11	45.06	54.00	-8.95

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

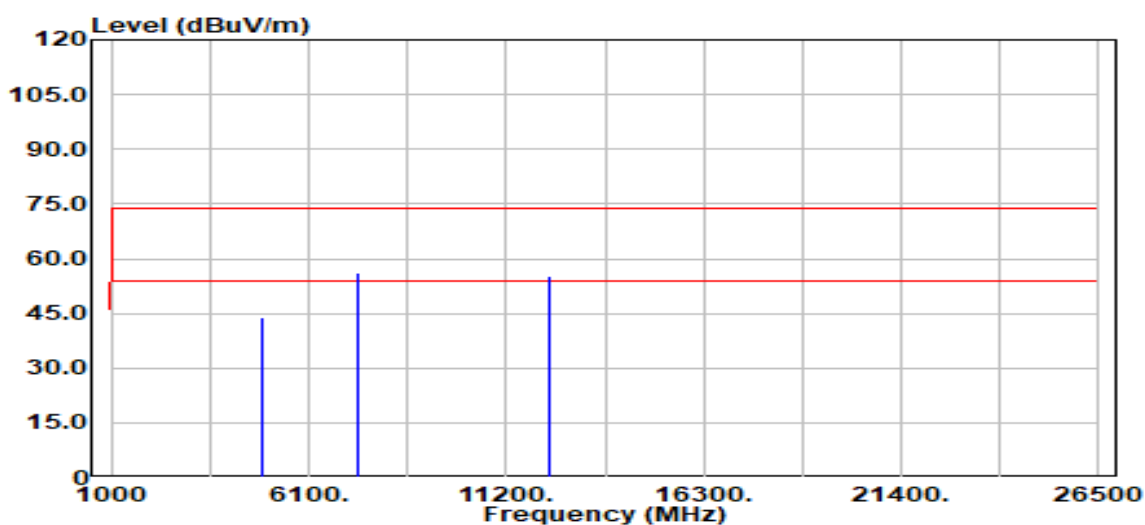


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	41.19	0.47	41.66	74.00	-32.34
4874.00	Average	31.62	0.47	32.09	54.00	-21.91
7311.00	Peak	43.03	5.49	48.52	74.00	-25.48
7311.00	Average	35.53	5.49	41.02	54.00	-12.98
12185.00	Peak	43.48	5.11	48.59	74.00	-25.41
12185.00	Average	35.89	5.11	41.00	54.00	-13.00

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g High CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

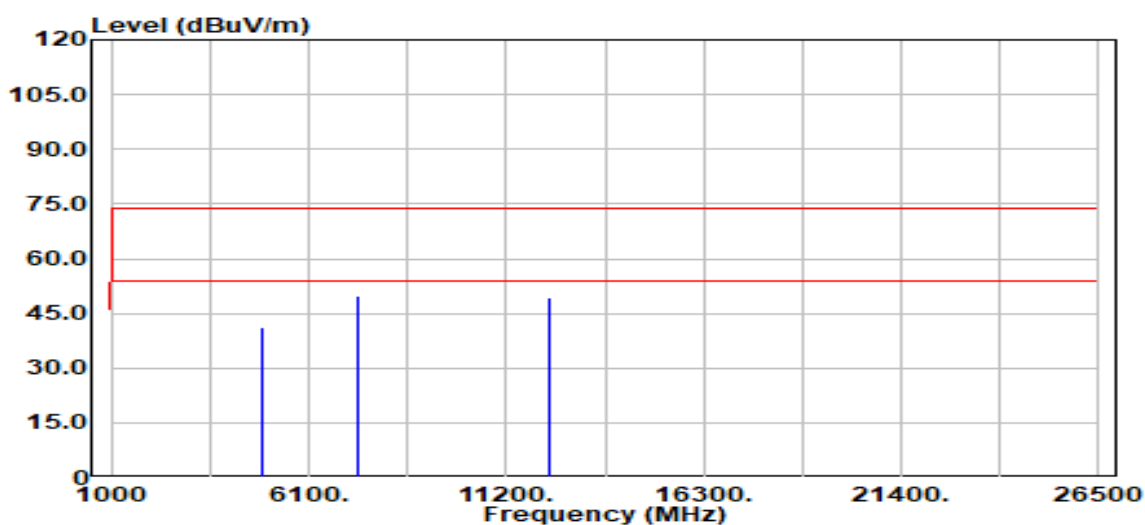


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	43.43	0.56	43.99	74.00	-30.01
4924.00	Average	34.42	0.56	34.98	54.00	-19.02
7386.00	Peak	50.42	5.63	56.05	74.00	-17.95
7386.00	Average	42.70	5.63	48.33	54.00	-5.67
12310.00	Peak	50.16	4.97	55.13	74.00	-18.87
12310.00	Average	41.31	4.97	46.28	54.00	-7.72

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g High CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

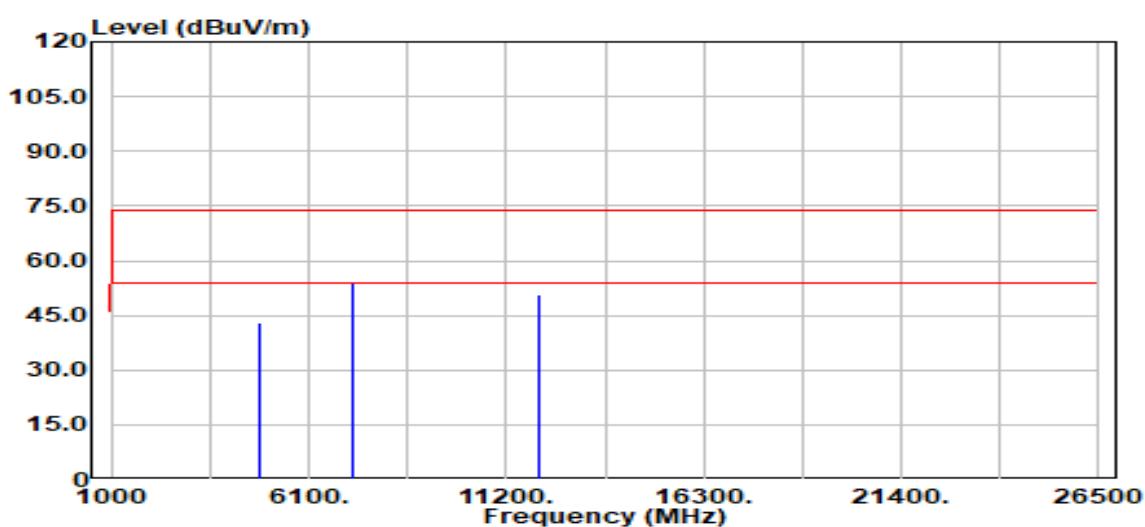


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	40.53	0.56	41.09	74.00	-32.91
4924.00	Average	31.88	0.56	32.44	54.00	-21.56
7386.00	Peak	44.29	5.63	49.91	74.00	-24.09
7386.00	Average	37.38	5.63	43.00	54.00	-11.00
12310.00	Peak	44.27	4.97	49.24	74.00	-24.76
12310.00	Average	36.52	4.97	41.49	54.00	-12.51

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

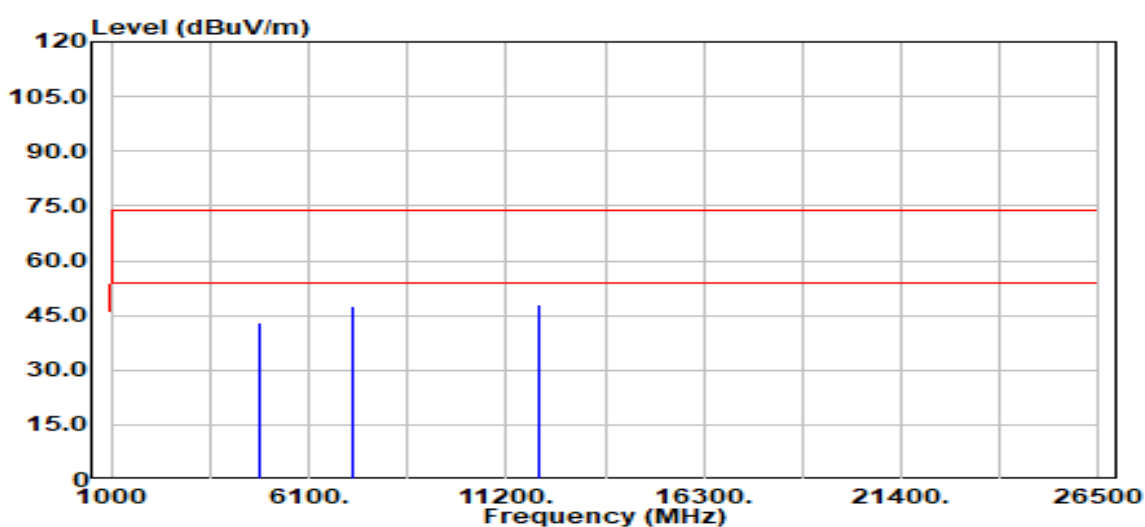


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	42.76	0.40	43.16	74.00	-30.84
4824.00	Average	32.92	0.40	33.32	54.00	-20.68
7236.00	Peak	48.55	5.36	53.92	74.00	-20.08
7236.00	Average	39.52	5.36	44.88	54.00	-9.12
12060.00	Peak	45.72	5.14	50.86	74.00	-23.14
12060.00	Average	37.68	5.14	42.82	54.00	-11.18

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

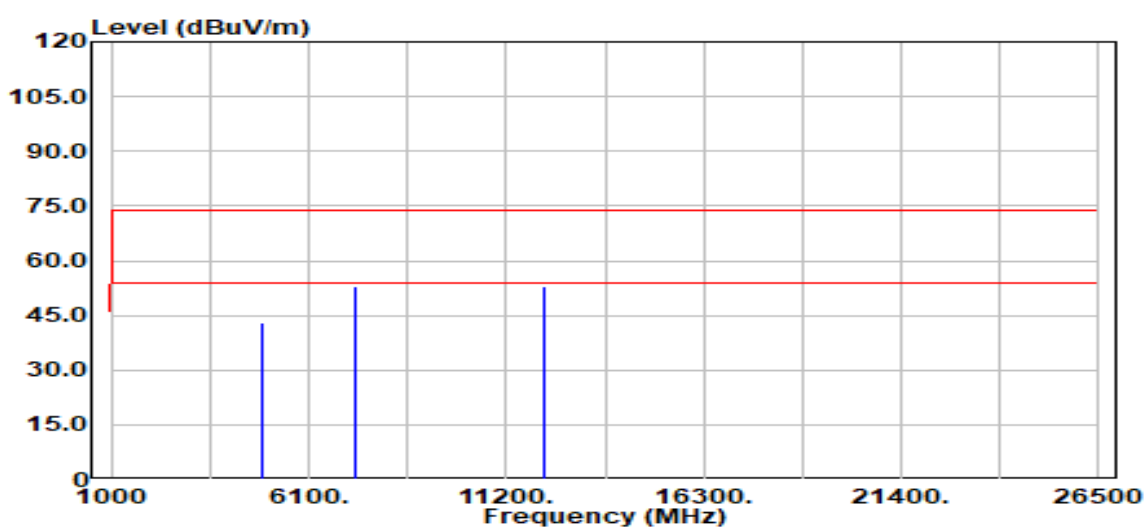


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	42.81	0.40	43.22	74.00	-30.78
4824.00	Average	32.38	0.40	32.78	54.00	-21.22
7236.00	Peak	42.33	5.36	47.70	74.00	-26.30
7236.00	Average	35.08	5.36	40.44	54.00	-13.56
12060.00	Peak	42.91	5.14	48.05	74.00	-25.95
12060.00	Average	35.45	5.14	40.58	54.00	-13.42

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

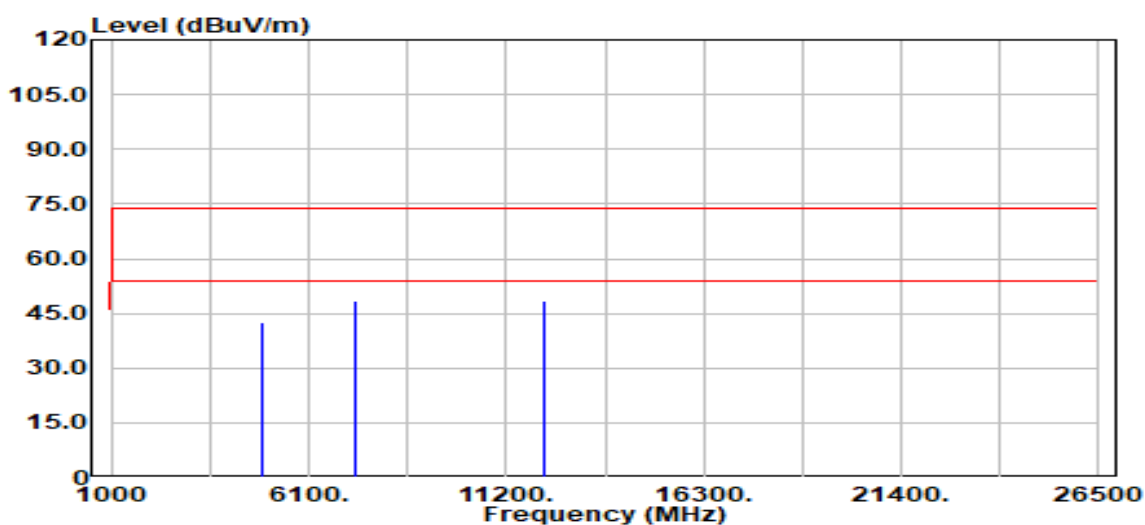


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	42.37	0.47	42.85	74.00	-31.15
4874.00	Average	32.97	0.47	33.44	54.00	-20.56
7311.00	Peak	47.56	5.49	53.05	74.00	-20.95
7311.00	Average	39.41	5.49	44.90	54.00	-9.10
12185.00	Peak	47.80	5.11	52.91	74.00	-21.09
12185.00	Average	38.81	5.11	43.93	54.00	-10.07

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

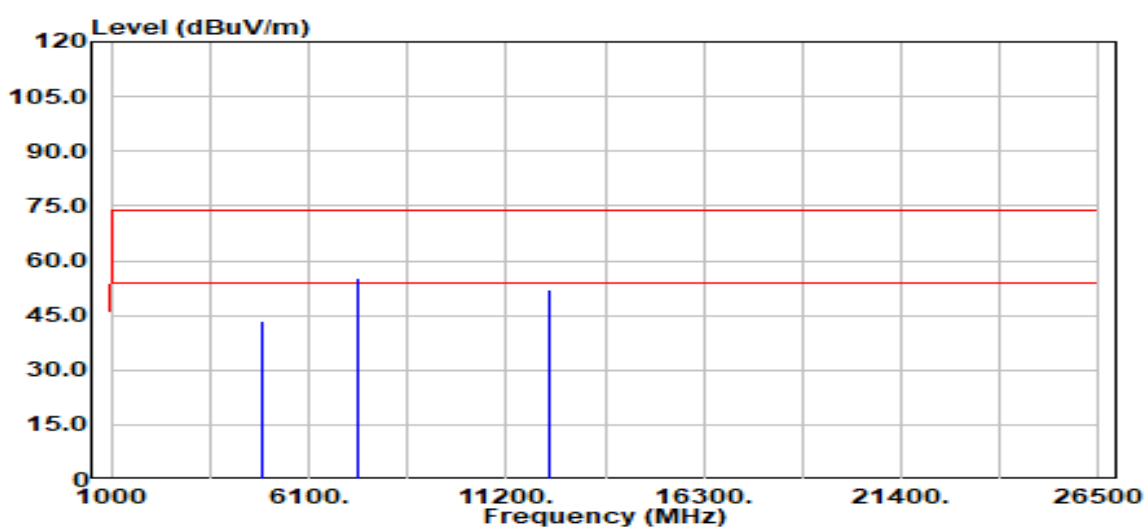


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	42.19	0.47	42.66	74.00	-31.34
4874.00	Average	31.81	0.47	32.29	54.00	-21.71
7311.00	Peak	42.94	5.49	48.43	74.00	-25.57
7311.00	Average	35.21	5.49	40.70	54.00	-13.30
12185.00	Peak	43.51	5.11	48.62	74.00	-25.38
12185.00	Average	35.44	5.11	40.55	54.00	-13.45

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

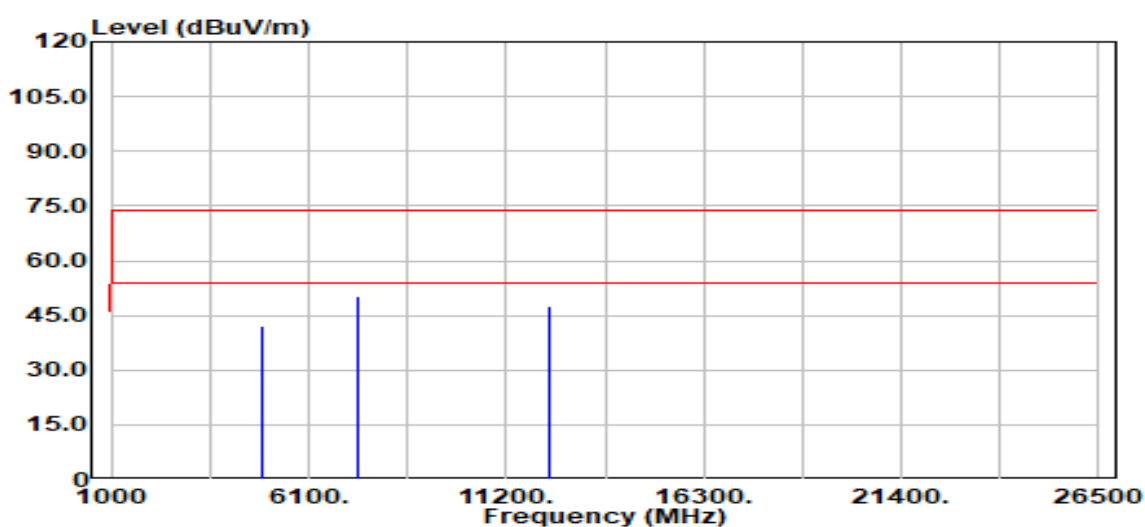


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	42.76	0.56	43.32	74.00	-30.68
4924.00	Average	33.12	0.56	33.68	54.00	-20.32
7386.00	Peak	49.55	5.63	55.18	74.00	-18.82
7386.00	Average	40.93	5.63	46.55	54.00	-7.45
12310.00	Peak	47.07	4.97	52.04	74.00	-21.96
12310.00	Average	39.59	4.97	44.56	54.00	-9.44

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

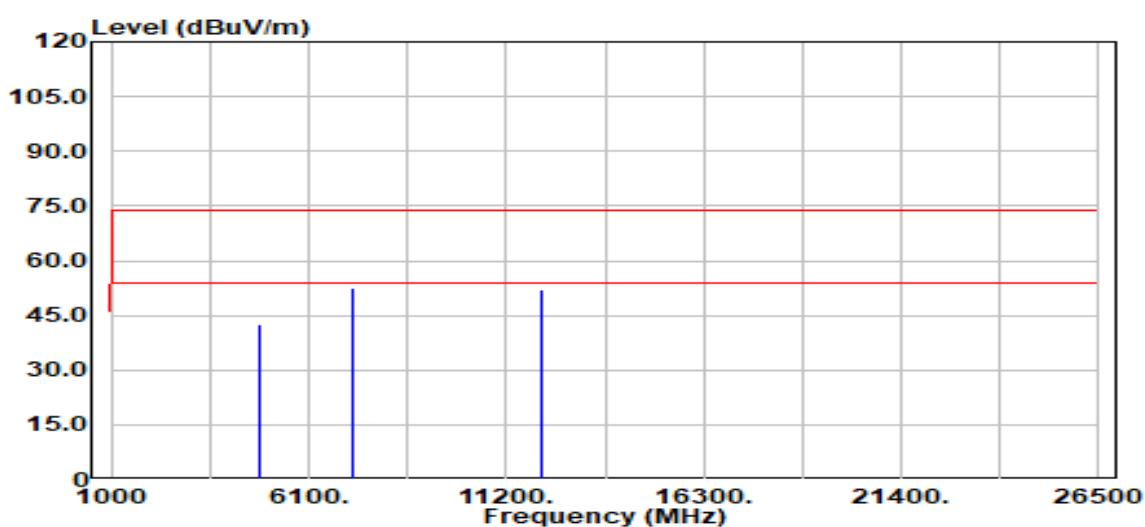


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
4924.00	Peak	41.50	0.56	42.06	74.00	-31.94
4924.00	Average	31.89	0.56	32.45	54.00	-21.55
7386.00	Peak	44.81	5.63	50.43	74.00	-23.57
7386.00	Average	36.32	5.63	41.94	54.00	-12.06
12310.00	Peak	42.73	4.97	47.70	74.00	-26.30
12310.00	Average	35.81	4.97	40.77	54.00	-13.23

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

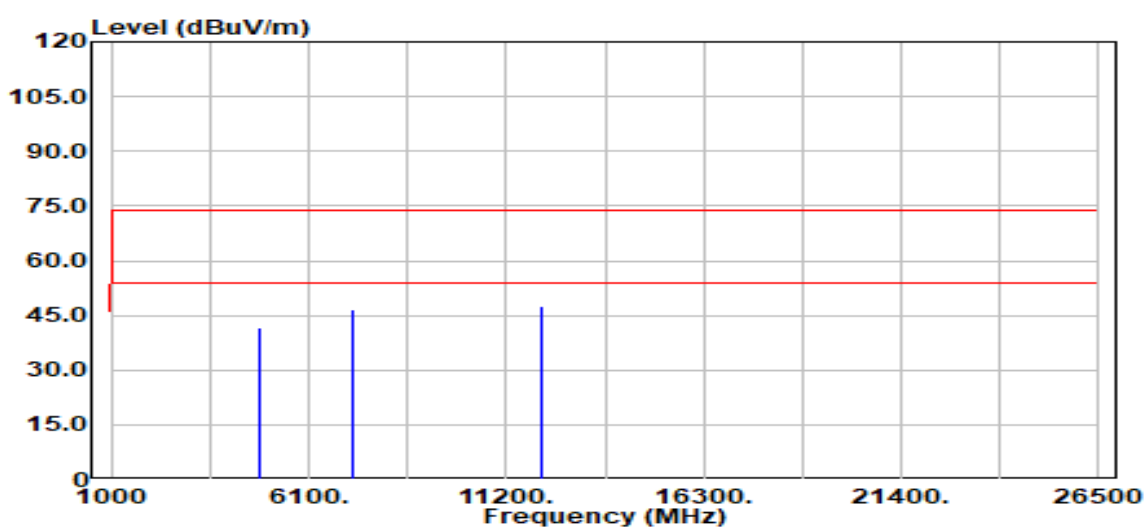


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4844.00	Peak	42.24	0.42	42.66	74.00	-31.34
4844.00	Average	33.19	0.42	33.62	54.00	-20.38
7266.00	Peak	47.26	5.42	52.68	74.00	-21.32
7266.00	Average	38.20	5.42	43.62	54.00	-10.38
12110.00	Peak	46.85	5.22	52.08	74.00	-21.92
12110.00	Average	37.41	5.22	42.63	54.00	-11.37

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

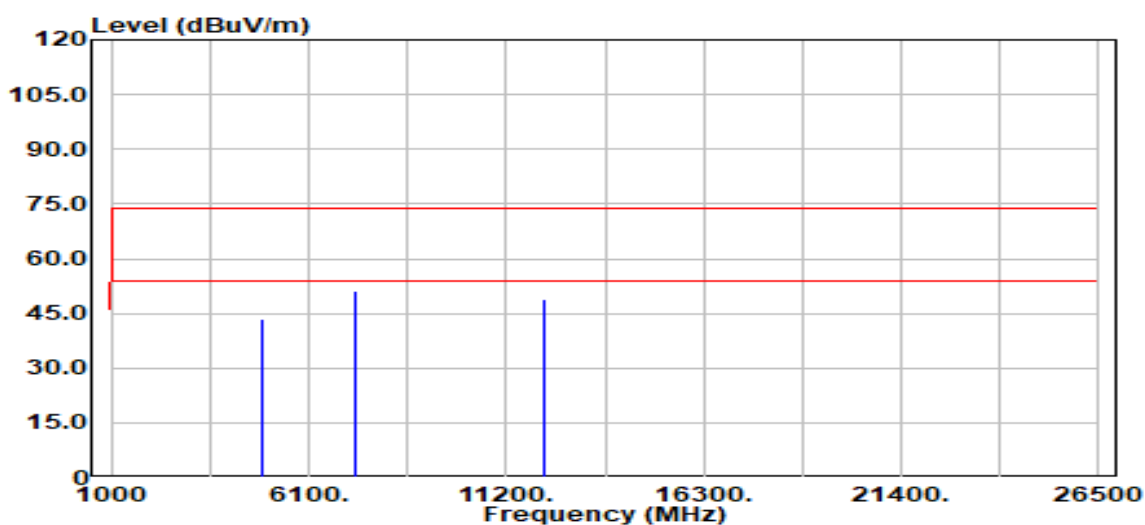


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4844.00	Peak	41.02	0.42	41.44	74.00	-32.56
4844.00	Average	32.63	0.42	33.05	54.00	-20.95
7266.00	Peak	41.28	5.42	46.69	74.00	-27.31
7266.00	Average	34.21	5.42	39.63	54.00	-14.37
12110.00	Peak	42.54	5.22	47.76	74.00	-26.24
12110.00	Average	34.70	5.22	39.92	54.00	-14.08

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

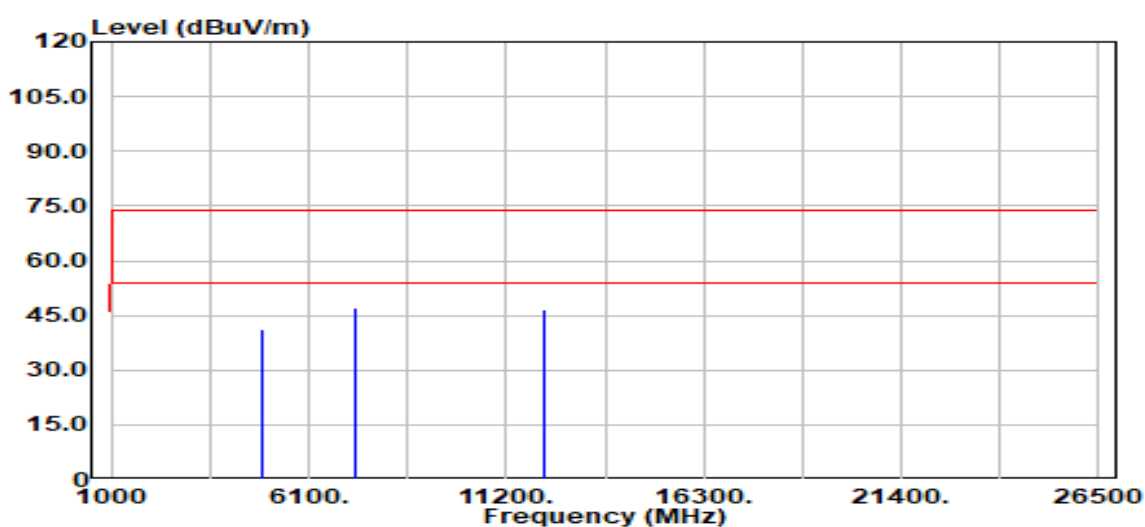


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)
4874.00	Peak	43.19	0.47	43.66	74.00	-30.34
4874.00	Average	32.77	0.47	33.24	54.00	-20.76
7311.00	Peak	45.66	5.49	51.15	74.00	-22.85
7311.00	Average	37.83	5.49	43.32	54.00	-10.68
12185.00	Peak	44.01	5.11	49.12	74.00	-24.88
12185.00	Average	37.68	5.11	42.79	54.00	-11.21

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

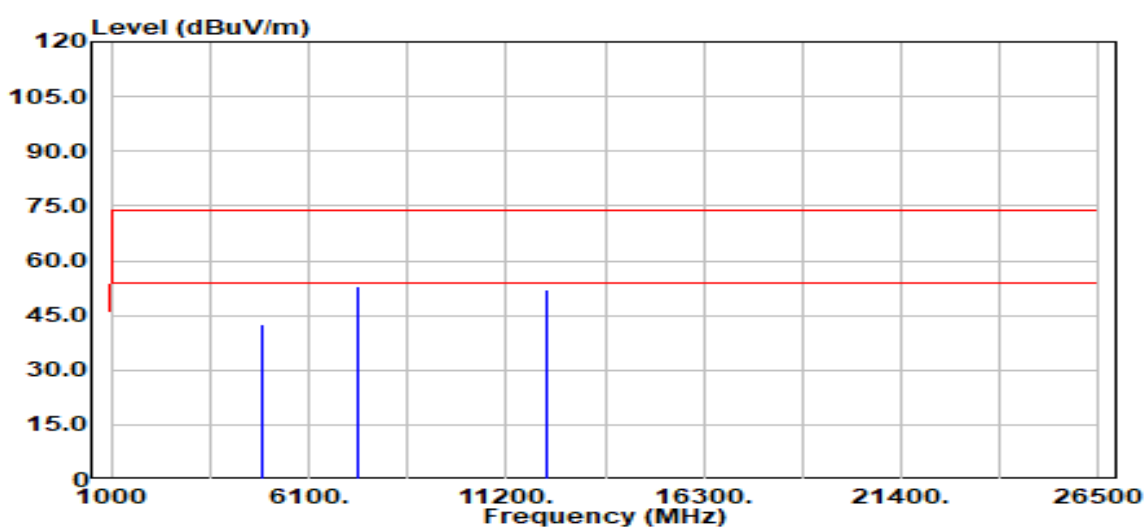


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	40.93	0.47	41.40	74.00	-32.60
4874.00	Average	32.36	0.47	32.83	54.00	-21.17
7311.00	Peak	41.73	5.49	47.22	74.00	-26.78
7311.00	Average	34.23	5.49	39.72	54.00	-14.28
12185.00	Peak	41.63	5.11	46.74	74.00	-27.26
12185.00	Average	34.67	5.11	39.78	54.00	-14.22

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

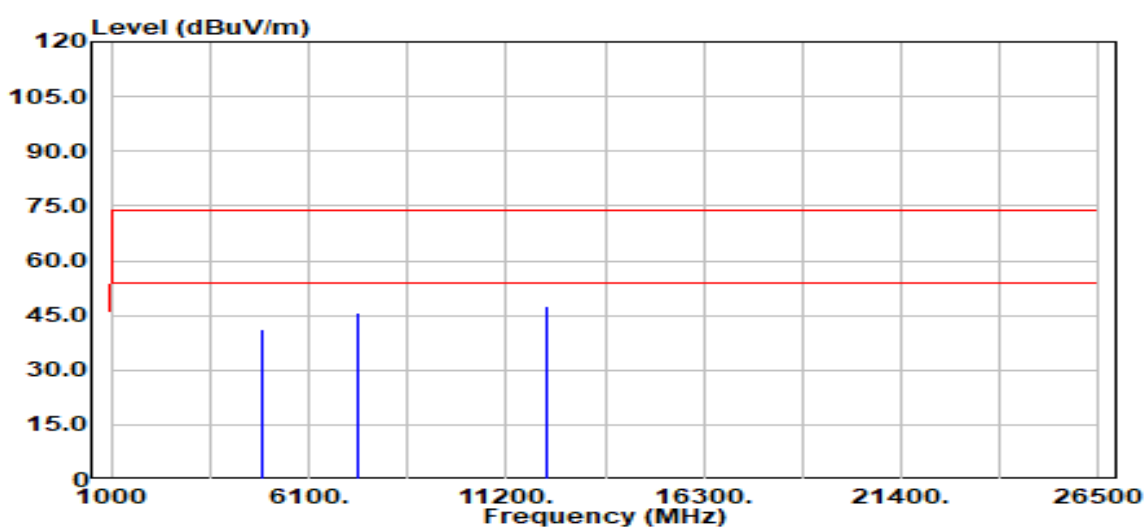


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4904.00	Peak	42.16	0.53	42.68	74.00	-31.32
4904.00	Average	33.08	0.53	33.60	54.00	-20.40
7356.00	Peak	47.61	5.49	53.09	74.00	-20.91
7356.00	Average	38.66	5.49	44.14	54.00	-9.86
12260.00	Peak	46.91	4.96	51.86	74.00	-22.14
12260.00	Average	38.03	4.96	42.99	54.00	-11.01

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	26.0(°C)/ 59%RH
Test Item	Harmonic	Test Date	June 1, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4904.00	Peak	40.54	0.53	41.07	74.00	-32.93
4904.00	Average	32.40	0.53	32.93	54.00	-21.07
7356.00	Peak	40.32	5.49	45.81	74.00	-28.19
7356.00	Average	34.18	5.49	39.67	54.00	-14.33
12260.00	Peak	42.59	4.96	47.55	74.00	-26.45
12260.00	Average	34.97	4.96	39.93	54.00	-14.07

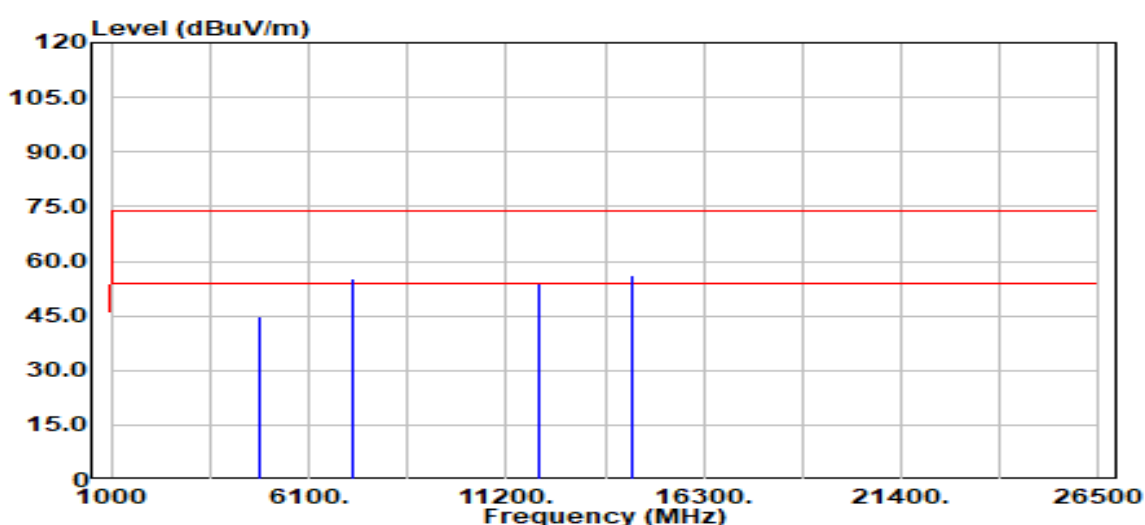
Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Above 1G Test Data

Test Mode: Mode 2 (PIFA Antenna)

Test Mode	IEEE 802.11b Low CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 6, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

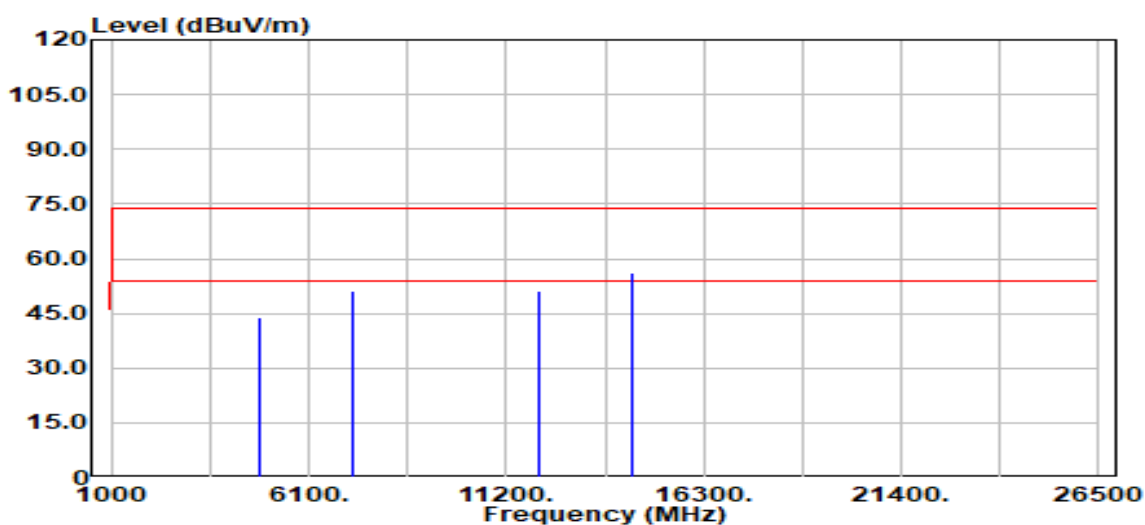


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	44.30	0.40	44.71	74.00	-29.30
4824.00	Average	38.39	0.40	38.79	54.00	-15.21
7236.00	Peak	49.74	5.36	55.11	74.00	-18.89
7236.00	Average	43.97	5.36	49.33	54.00	-4.67
12060.00	Peak	48.81	5.14	53.95	74.00	-20.05
12060.00	Average	42.63	5.14	47.76	54.00	-6.24
14472.00	Peak	49.57	6.43	56.01	74.00	-17.99
14472.00	Average	44.67	6.43	51.11	54.00	-2.89

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b Low CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 6, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

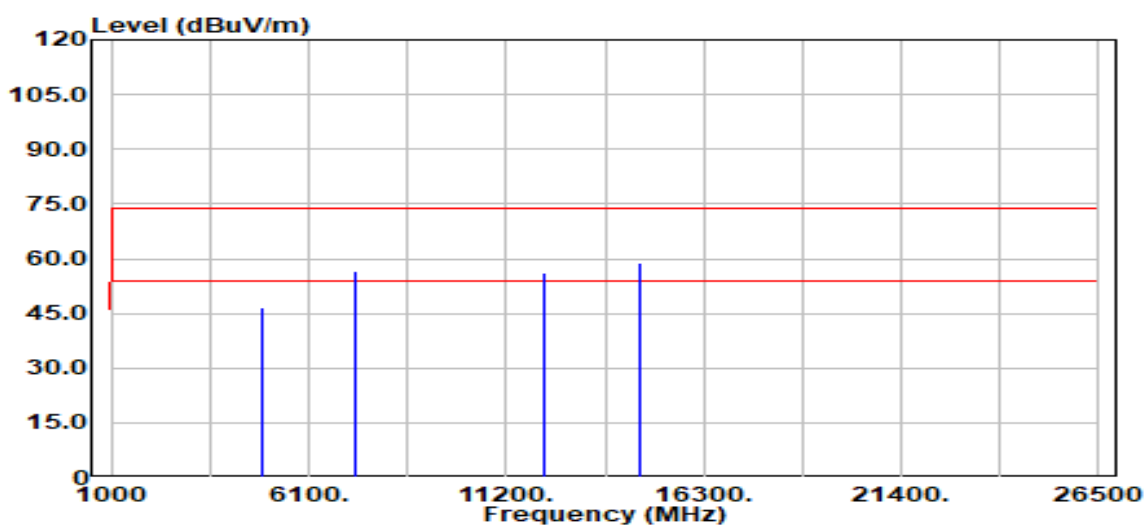


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	43.50	0.40	43.91	74.00	-30.09
4824.00	Average	36.95	0.40	37.35	54.00	-16.65
7236.00	Peak	45.65	5.36	51.02	74.00	-22.98
7236.00	Average	38.88	5.36	44.24	54.00	-9.76
12060.00	Peak	45.89	5.14	51.03	74.00	-22.97
12060.00	Average	37.11	5.14	42.25	54.00	-11.75
14472.00	Peak	49.64	6.43	56.08	74.00	-17.92
14472.00	Average	46.37	6.43	52.80	54.00	-1.20

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 6, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

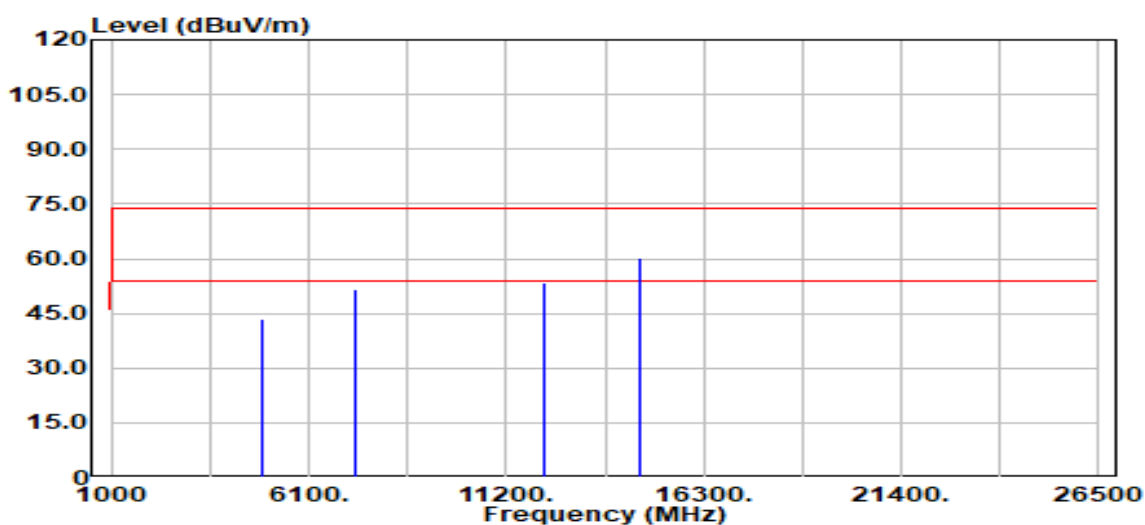


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	46.05	0.47	46.52	74.00	-27.48
4874.00	Average	41.93	0.47	42.41	54.00	-11.59
7311.00	Peak	51.07	5.49	56.56	74.00	-17.44
7311.00	Average	46.71	5.49	52.20	54.00	-1.80
12185.00	Peak	50.86	5.11	55.97	74.00	-18.03
12185.00	Average	46.43	5.11	51.55	54.00	-2.45
14622.00	Peak	51.94	6.91	58.85	84.85	-26.00
14622.00	Average	49.00	6.91	55.91	81.96	-26.05

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 6, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

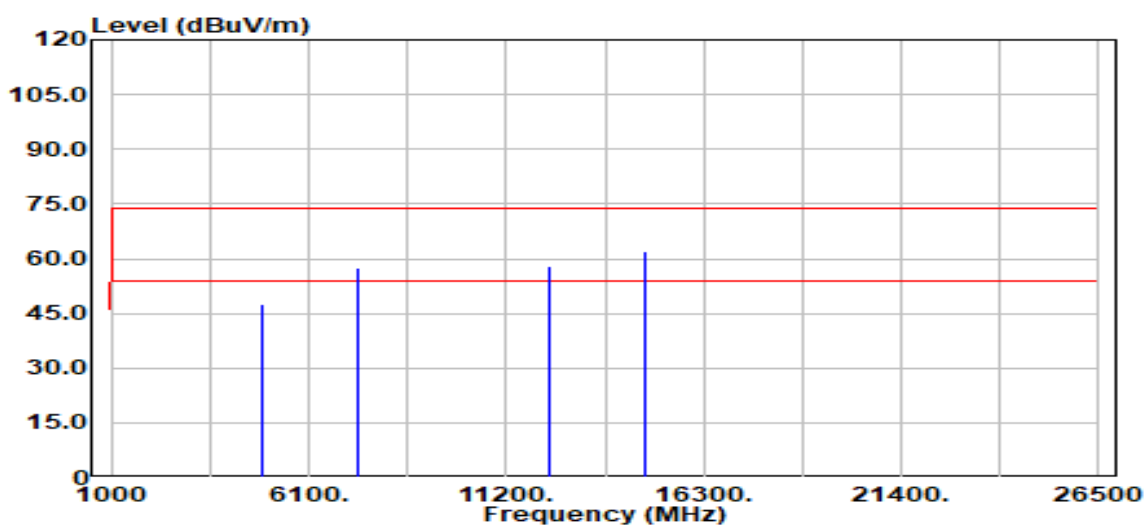


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	42.79	0.47	43.27	74.00	-30.73
4874.00	Average	34.77	0.47	35.24	54.00	-18.76
7311.00	Peak	46.18	5.49	51.68	74.00	-22.32
7311.00	Average	41.05	5.49	46.54	54.00	-7.46
12185.00	Peak	48.32	5.11	53.44	74.00	-20.56
12185.00	Average	43.33	5.11	48.44	54.00	-5.56
14622.00	Peak	53.52	6.91	60.43	79.87	-19.44
14622.00	Average	51.39	6.91	58.30	76.86	-18.56

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b High CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

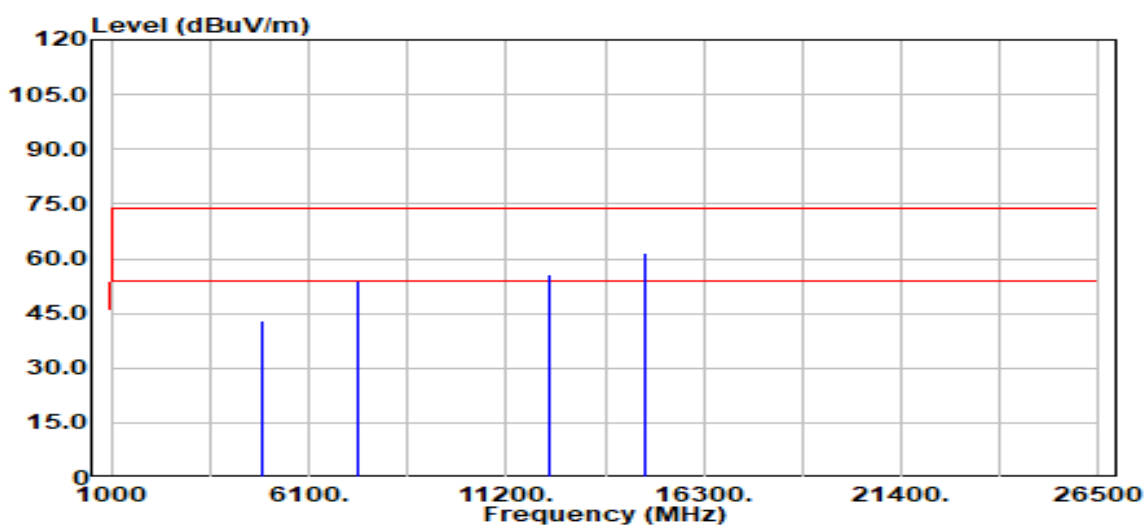


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	47.04	0.56	47.60	74.00	-26.40
4924.00	Average	42.70	0.56	43.26	54.00	-10.74
7386.00	Peak	51.96	5.63	57.59	74.00	-16.41
7386.00	Average	47.40	5.63	53.03	54.00	-0.97
12310.00	Peak	53.03	4.97	58.00	74.00	-16.00
12310.00	Average	47.41	4.97	52.38	54.00	-1.62
14772.00	Peak	54.88	7.03	61.91	83.84	-21.93
14772.00	Average	49.21	7.03	56.24	79.99	-23.75

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b High CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

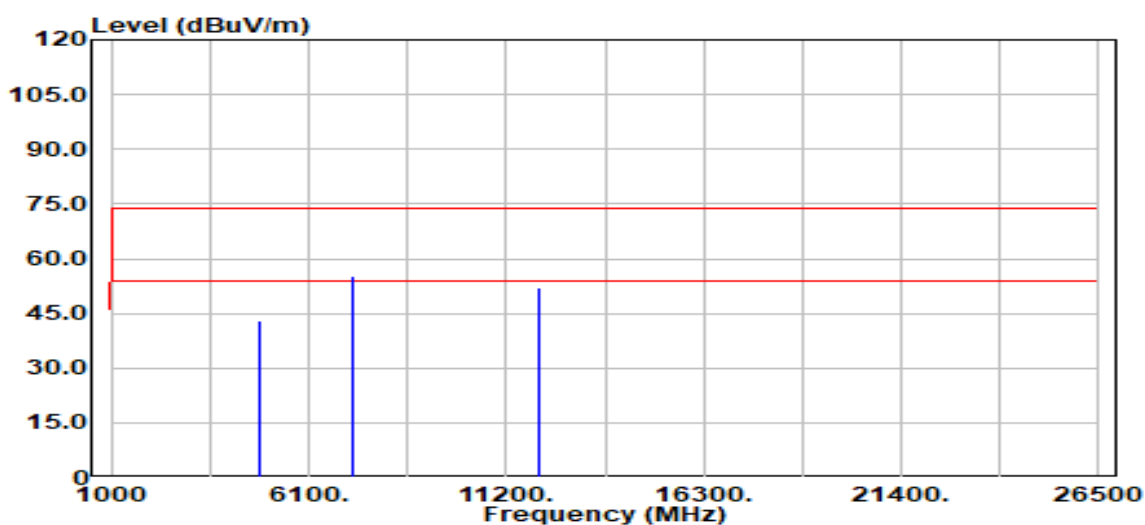


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	42.36	0.56	42.92	74.00	-31.08
4924.00	Average	36.88	0.56	37.44	54.00	-16.56
7386.00	Peak	48.09	5.63	53.71	74.00	-20.29
7386.00	Average	41.99	5.63	47.62	54.00	-6.38
12310.00	Peak	50.51	4.97	55.48	74.00	-18.52
12310.00	Average	44.39	4.97	49.36	54.00	-4.64
14772.00	Peak	54.72	7.03	61.75	80.02	-18.27
14772.00	Average	52.18	7.03	59.21	77.23	-18.02

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g Low CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

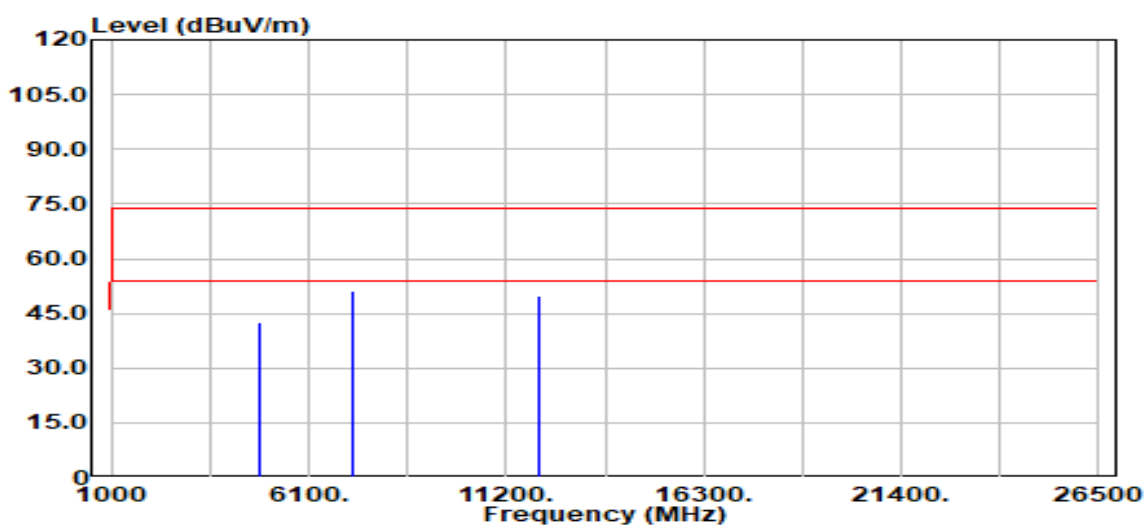


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	42.49	0.40	42.90	74.00	-31.10
4824.00	Average	33.48	0.40	33.89	54.00	-20.11
7236.00	Peak	49.98	5.36	55.35	74.00	-18.65
7236.00	Average	41.03	5.36	46.39	54.00	-7.61
12060.00	Peak	47.03	5.14	52.17	74.00	-21.83
12060.00	Average	40.41	5.14	45.55	54.00	-8.45

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g Low CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

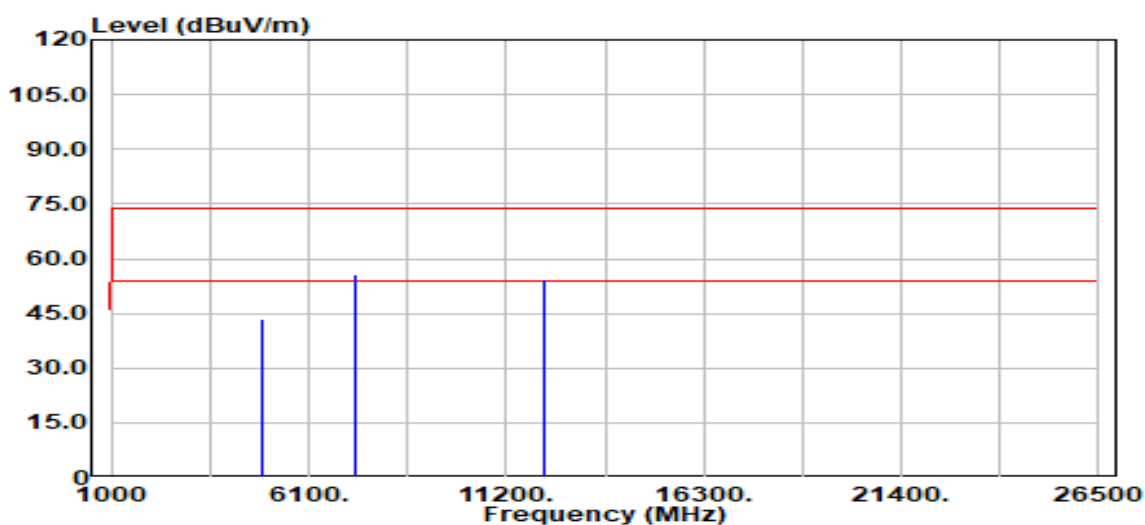


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	42.31	0.40	42.71	74.00	-31.29
4824.00	Average	34.44	0.40	34.84	54.00	-19.16
7236.00	Peak	45.69	5.36	51.06	74.00	-22.94
7236.00	Average	37.42	5.36	42.79	54.00	-11.21
12060.00	Peak	44.47	5.14	49.61	74.00	-24.39
12060.00	Average	37.49	5.14	42.62	54.00	-11.38

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

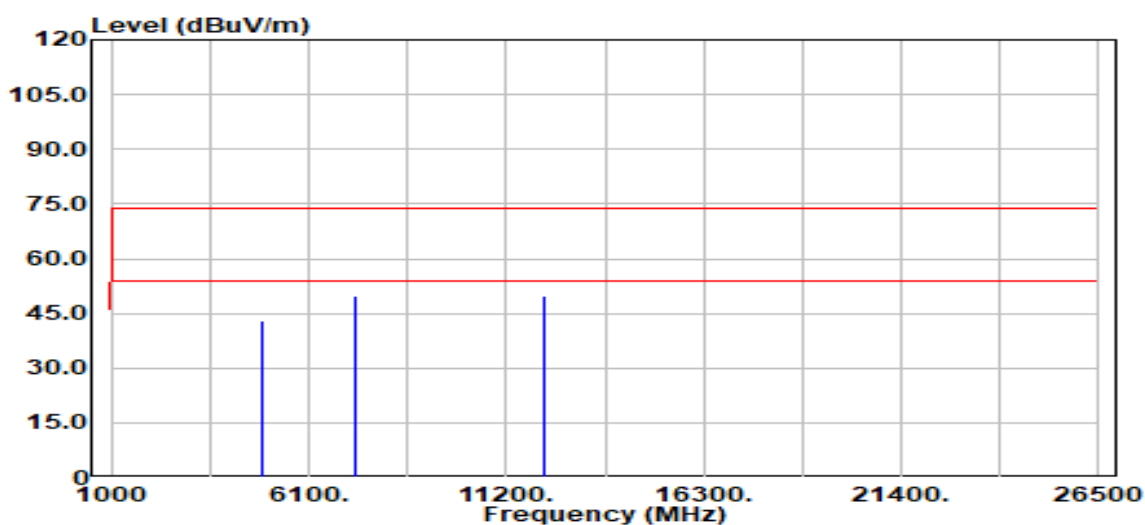


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	42.79	0.47	43.26	74.00	-30.74
4874.00	Average	31.93	0.47	32.40	54.00	-21.60
7311.00	Peak	50.09	5.49	55.59	74.00	-18.41
7311.00	Average	41.59	5.49	47.08	54.00	-6.92
12185.00	Peak	49.43	5.11	54.54	74.00	-19.46
12185.00	Average	40.71	5.11	45.83	54.00	-8.17

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

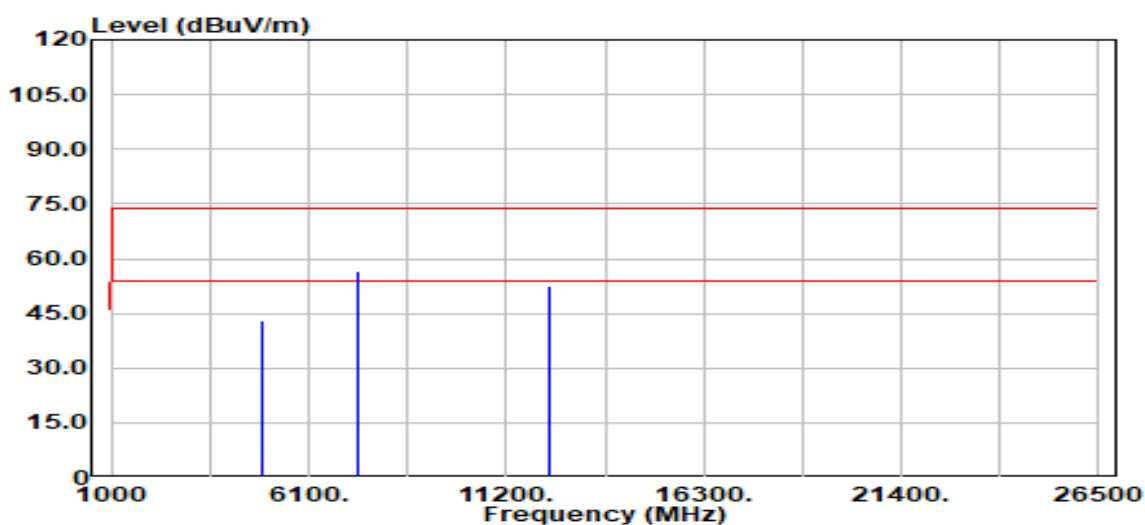


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	42.74	0.47	43.21	74.00	-30.79
4874.00	Average	31.96	0.47	32.43	54.00	-21.57
7311.00	Peak	44.35	5.49	49.84	74.00	-24.16
7311.00	Average	36.67	5.49	42.16	54.00	-11.84
12185.00	Peak	44.86	5.11	49.98	74.00	-24.02
12185.00	Average	35.44	5.11	40.55	54.00	-13.45

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g High CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

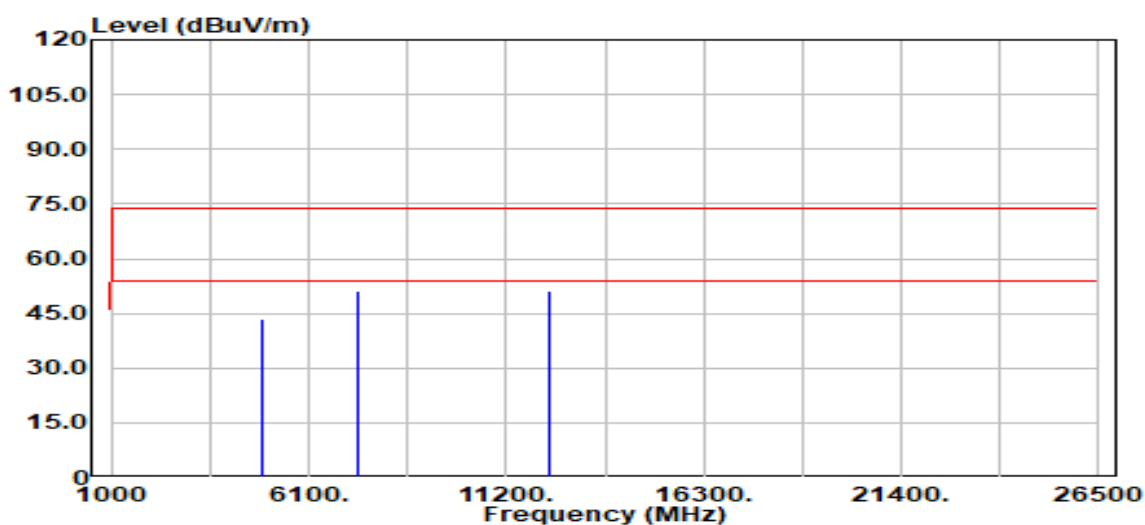


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	42.48	0.56	43.04	74.00	-30.96
4924.00	Average	32.27	0.56	32.83	54.00	-21.17
7386.00	Peak	51.11	5.63	56.74	74.00	-17.26
7386.00	Average	42.62	5.63	48.25	54.00	-5.75
12310.00	Peak	47.67	4.97	52.64	74.00	-21.36
12310.00	Average	41.00	4.97	45.97	54.00	-8.03

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g High CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

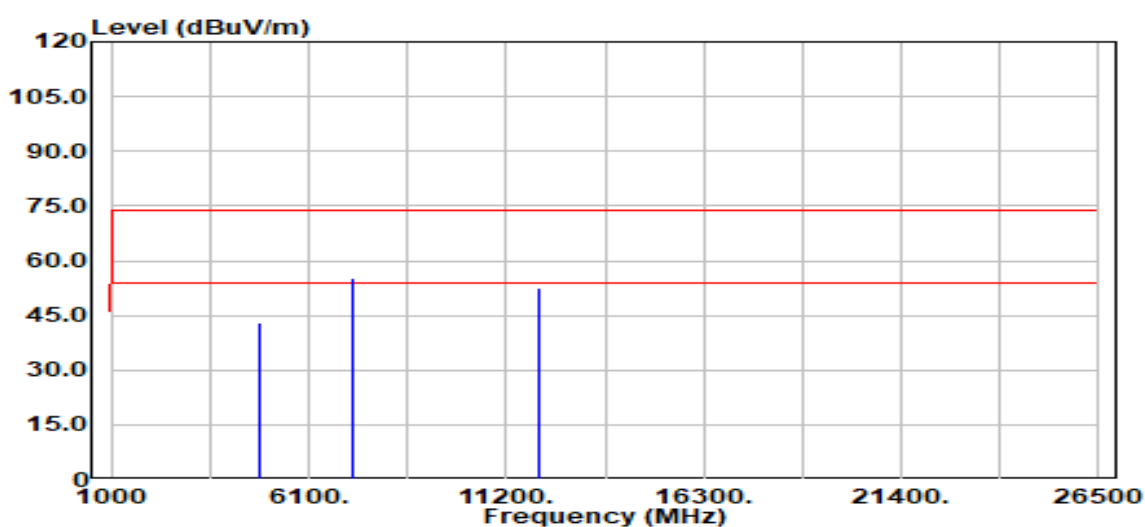


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	43.10	0.56	43.66	74.00	-30.34
4924.00	Average	31.43	0.56	31.99	54.00	-22.01
7386.00	Peak	45.43	5.63	51.05	74.00	-22.95
7386.00	Average	38.06	5.63	43.68	54.00	-10.32
12310.00	Peak	46.09	4.97	51.06	74.00	-22.94
12310.00	Average	39.88	4.97	44.84	54.00	-9.16

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

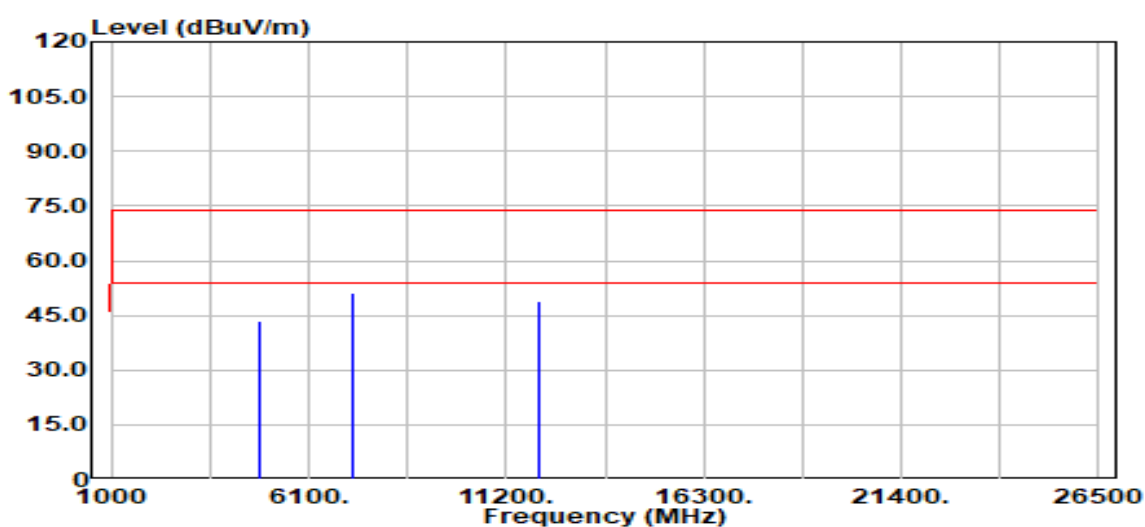


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	42.73	0.40	43.14	74.00	-30.86
4824.00	Average	33.54	0.40	33.94	54.00	-20.06
7236.00	Peak	49.72	5.36	55.08	74.00	-18.92
7236.00	Average	40.38	5.36	45.74	54.00	-8.26
12060.00	Peak	47.20	5.14	52.33	74.00	-21.67
12060.00	Average	36.31	5.14	41.45	54.00	-12.55

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

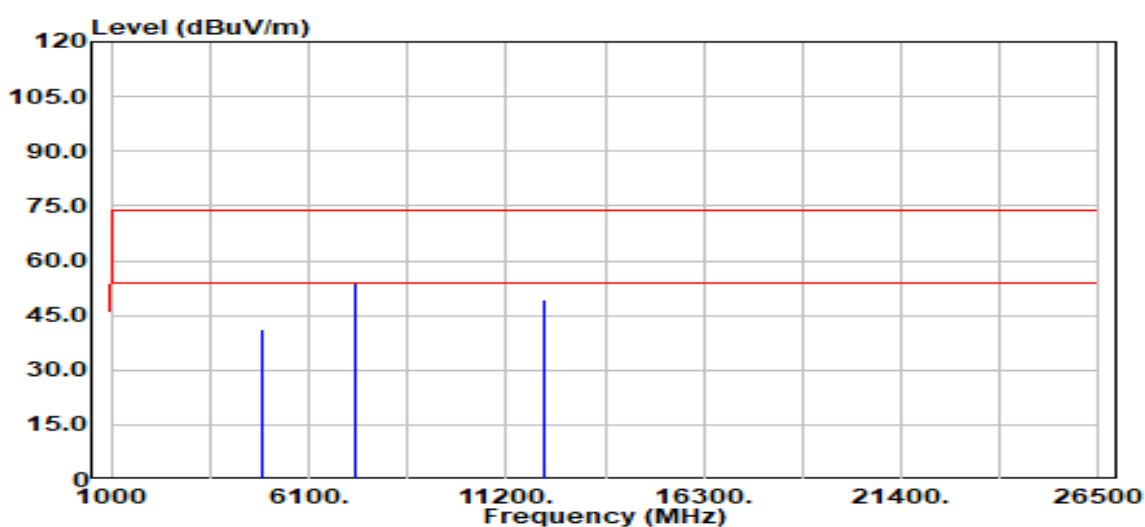


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	43.22	0.40	43.63	74.00	-30.37
4824.00	Average	32.21	0.40	32.61	54.00	-21.39
7236.00	Peak	45.65	5.36	51.01	74.00	-22.99
7236.00	Average	39.19	5.36	44.55	54.00	-9.45
12060.00	Peak	43.99	5.14	49.12	74.00	-24.88
12060.00	Average	36.97	5.14	42.11	54.00	-11.89

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

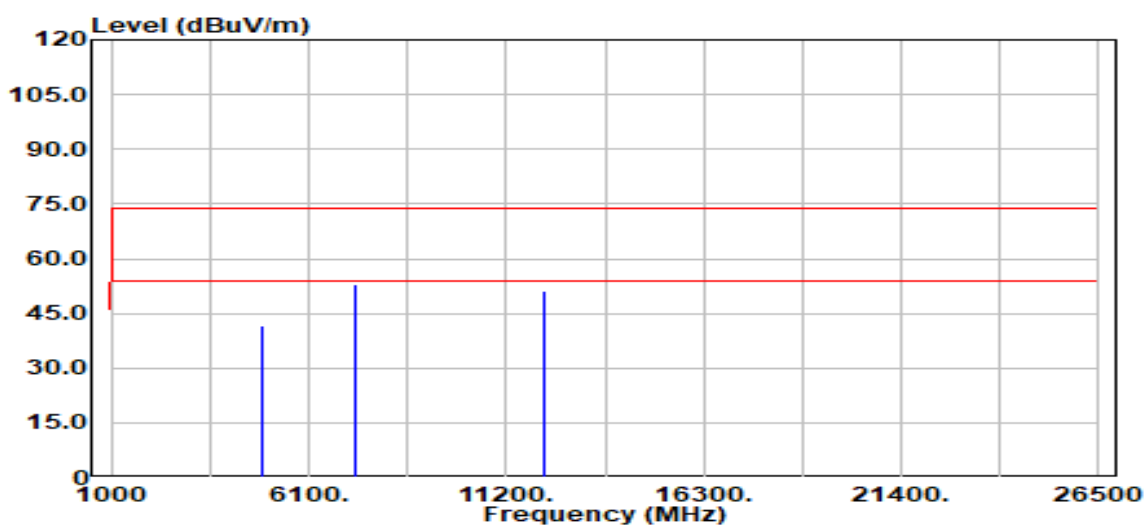


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	40.60	0.47	41.07	74.00	-32.93
4874.00	Average	32.83	0.47	33.30	54.00	-20.70
7311.00	Peak	48.33	5.49	53.82	74.00	-20.18
7311.00	Average	40.90	5.49	46.39	54.00	-7.61
12185.00	Peak	44.14	5.11	49.25	74.00	-24.75
12185.00	Average	37.86	5.11	42.97	54.00	-11.03

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

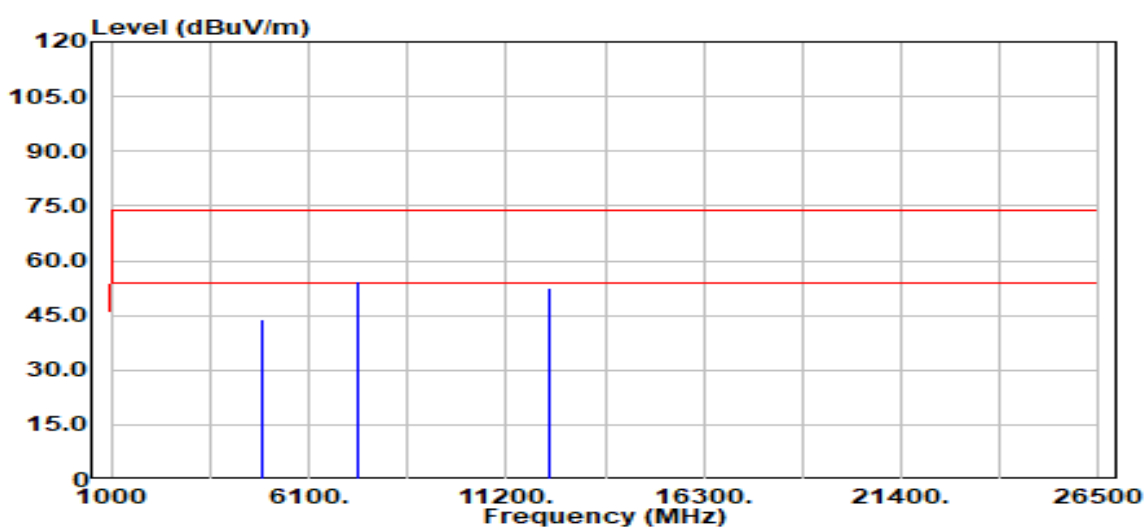


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	41.21	0.47	41.68	74.00	-32.32
4874.00	Average	31.72	0.47	32.19	54.00	-21.81
7311.00	Peak	47.32	5.49	52.81	74.00	-21.19
7311.00	Average	38.83	5.49	44.32	54.00	-9.68
12185.00	Peak	46.16	5.11	51.27	74.00	-22.73
12185.00	Average	38.06	5.11	43.17	54.00	-10.83

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

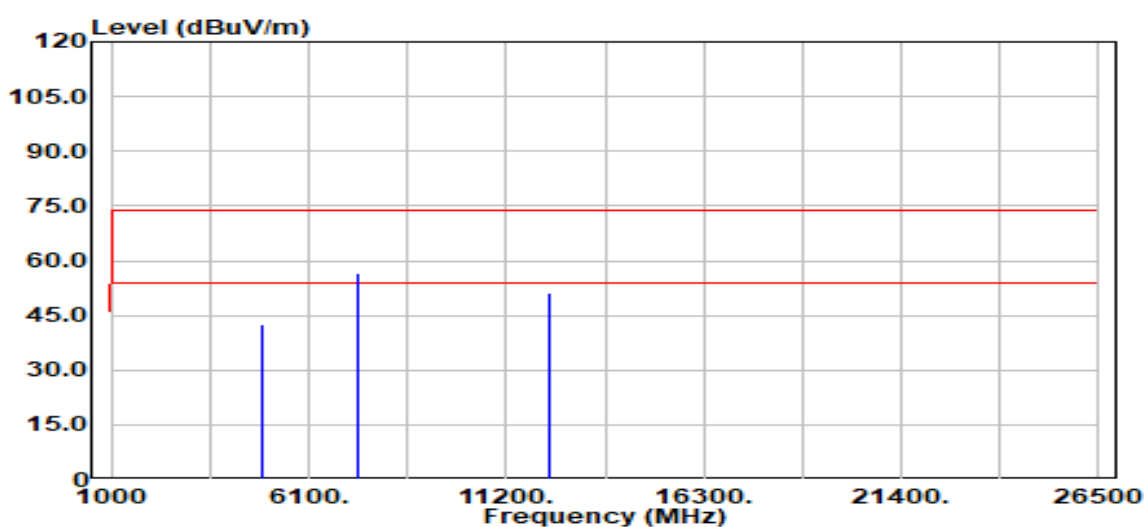


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	43.53	0.56	44.09	74.00	-29.91
4924.00	Average	34.08	0.56	34.64	54.00	-19.36
7386.00	Peak	48.64	5.63	54.26	74.00	-19.74
7386.00	Average	41.69	5.63	47.31	54.00	-6.69
12310.00	Peak	47.65	4.97	52.62	74.00	-21.38
12310.00	Average	39.55	4.97	44.52	54.00	-9.48

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

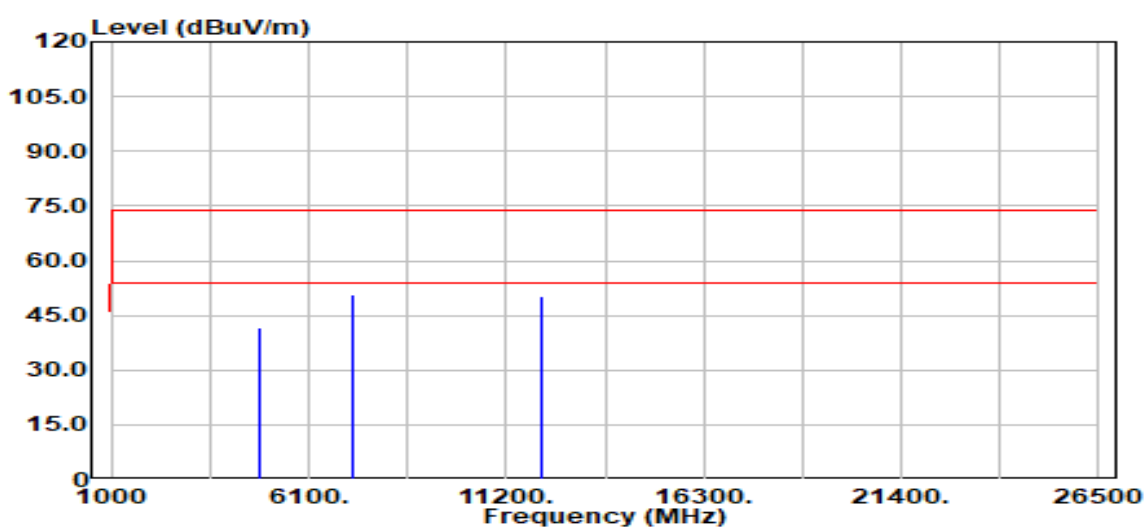


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	42.01	0.56	42.57	74.00	-31.43
4924.00	Average	33.62	0.56	34.18	54.00	-19.82
7386.00	Peak	50.86	5.63	56.48	74.00	-17.52
7386.00	Average	42.55	5.63	48.17	54.00	-5.83
12310.00	Peak	46.03	4.97	50.99	74.00	-23.01
12310.00	Average	38.82	4.97	43.79	54.00	-10.21

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

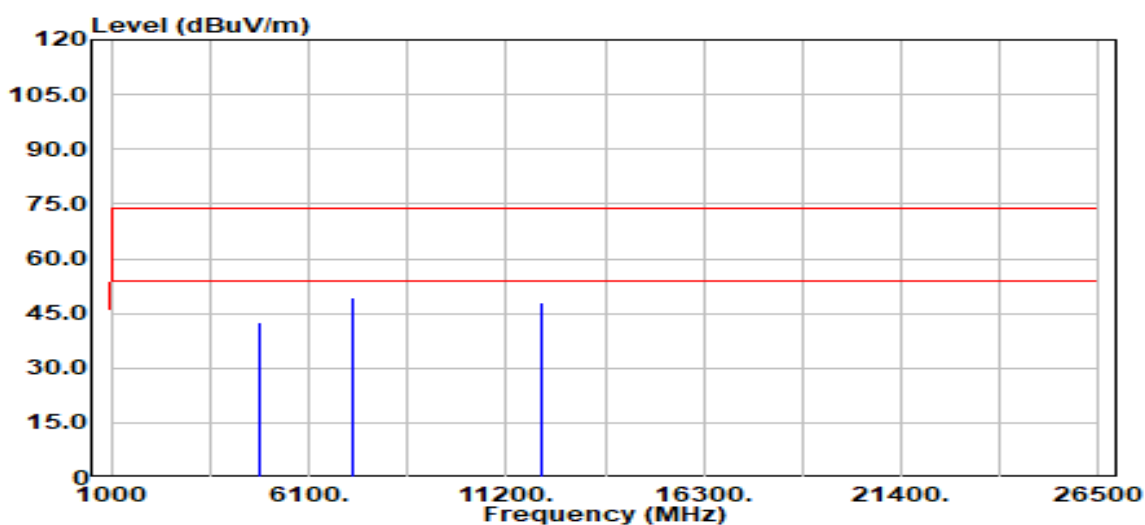


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4844.00	Peak	41.29	0.42	41.71	74.00	-32.29
4844.00	Average	32.22	0.42	32.65	54.00	-21.35
7266.00	Peak	45.11	5.42	50.53	74.00	-23.47
7266.00	Average	38.67	5.42	44.09	54.00	-9.91
12110.00	Peak	44.82	5.22	50.04	74.00	-23.96
12110.00	Average	38.58	5.22	43.80	54.00	-10.20

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	26.5(°C)/ 60%RH
Test Item	Harmonic	Test Date	June 7, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

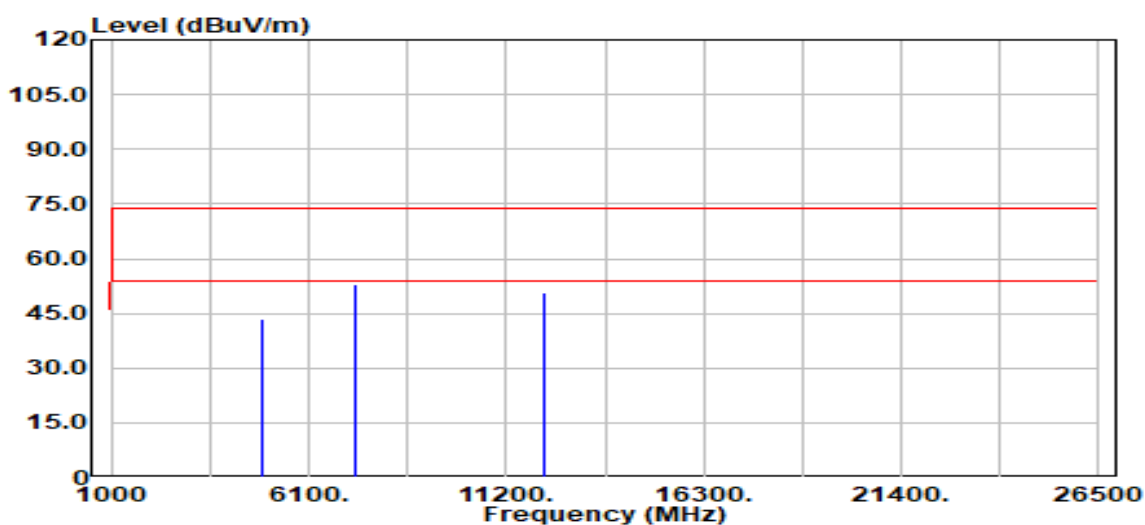


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4844.00	Peak	41.98	0.42	42.40	74.00	-31.60
4844.00	Average	32.41	0.42	32.83	54.00	-21.17
7266.00	Peak	44.13	5.42	49.55	74.00	-24.45
7266.00	Average	36.34	5.42	41.76	54.00	-12.24
12110.00	Peak	42.74	5.22	47.97	74.00	-26.03
12110.00	Average	34.72	5.22	39.94	54.00	-14.06

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Harmonic	Test Date	June 8, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

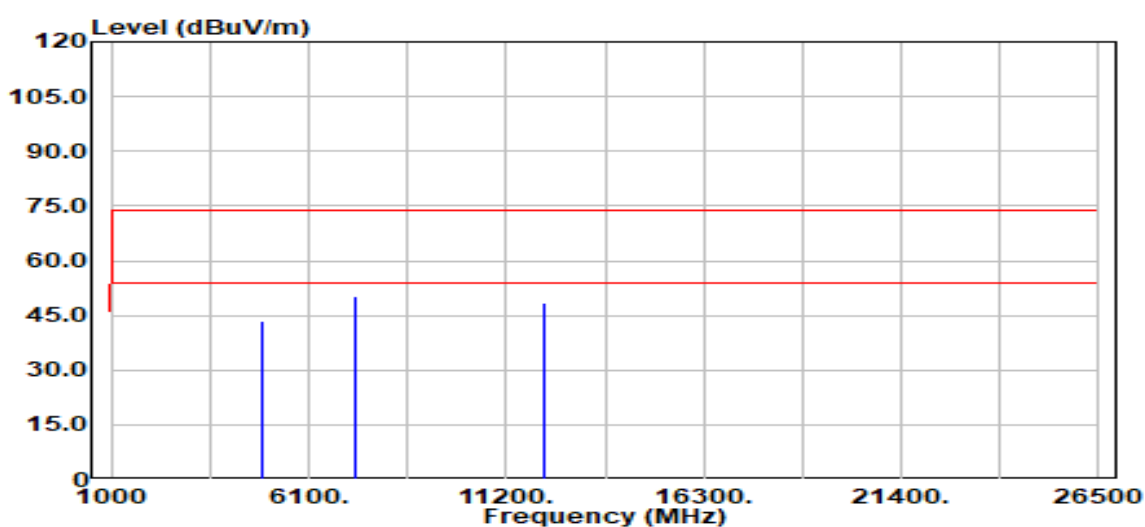


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	42.77	0.47	43.25	74.00	-30.75
4874.00	Average	32.15	0.47	32.63	54.00	-21.37
7311.00	Peak	47.53	5.49	53.02	74.00	-20.98
7311.00	Average	39.41	5.49	44.90	54.00	-9.10
12185.00	Peak	45.52	5.11	50.64	74.00	-23.36
12185.00	Average	39.61	5.11	44.72	54.00	-9.28

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Harmonic	Test Date	June 8, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

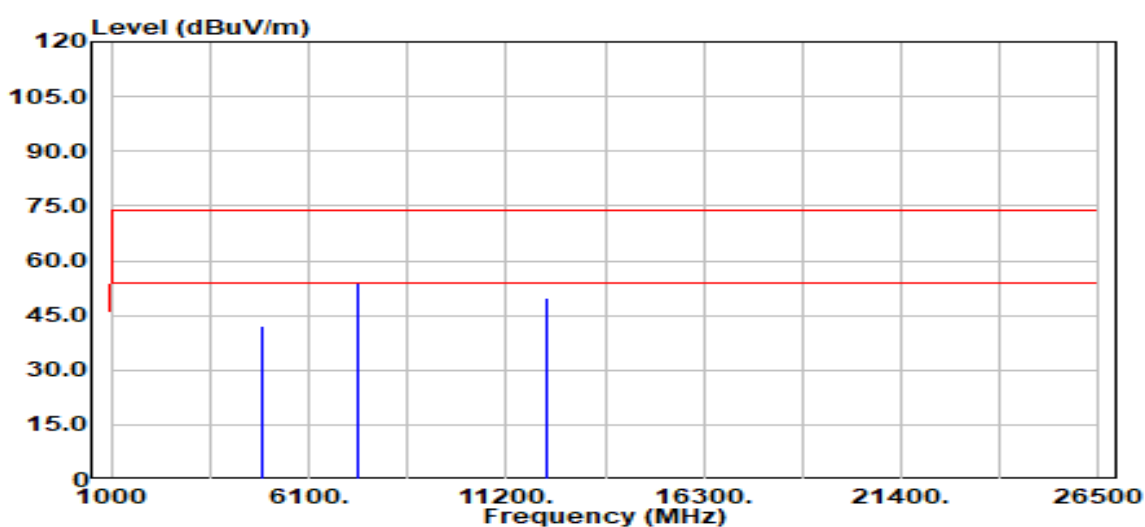


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	42.78	0.47	43.25	74.00	-30.75
4874.00	Average	32.05	0.47	32.53	54.00	-21.47
7311.00	Peak	44.85	5.49	50.34	74.00	-23.66
7311.00	Average	36.98	5.49	42.47	54.00	-11.53
12185.00	Peak	43.38	5.11	48.50	74.00	-25.50
12185.00	Average	36.81	5.11	41.92	54.00	-12.08

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Harmonic	Test Date	June 8, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

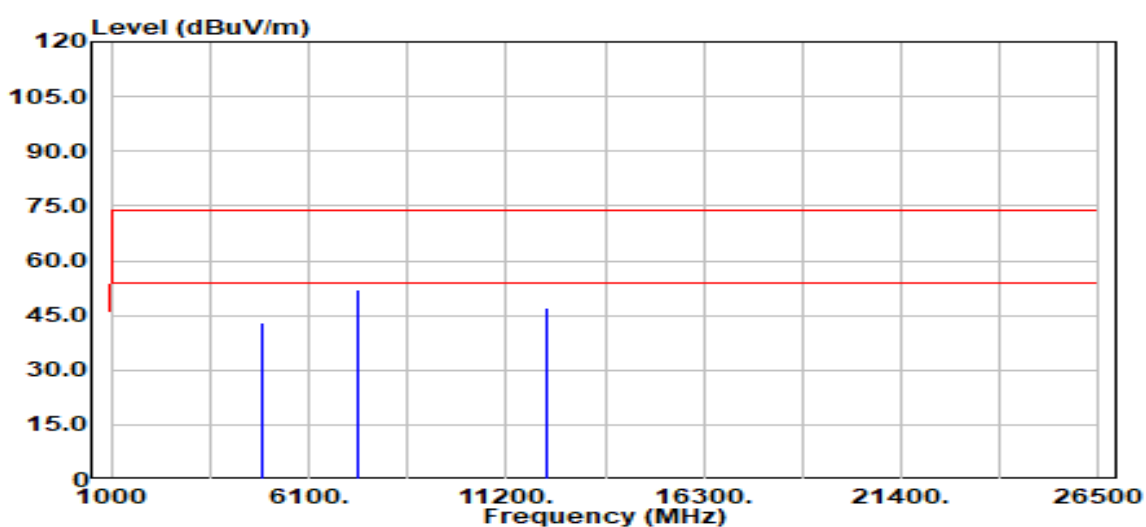


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4904.00	Peak	41.79	0.53	42.32	74.00	-31.68
4904.00	Average	32.24	0.53	32.76	54.00	-21.24
7356.00	Peak	48.32	5.49	53.81	74.00	-20.19
7356.00	Average	39.54	5.49	45.02	54.00	-8.98
12260.00	Peak	45.08	4.96	50.03	74.00	-23.97
12260.00	Average	38.89	4.96	43.84	54.00	-10.16

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	24.1(°C)/ 61%RH
Test Item	Harmonic	Test Date	June 8, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4904.00	Peak	42.35	0.53	42.87	74.00	-31.13
4904.00	Average	32.10	0.53	32.62	54.00	-21.38
7356.00	Peak	46.46	5.49	51.95	74.00	-22.05
7356.00	Average	37.42	5.49	42.91	54.00	-11.09
12260.00	Peak	42.20	4.96	47.15	74.00	-26.85
12260.00	Average	36.71	4.96	41.66	54.00	-12.34

Remark:

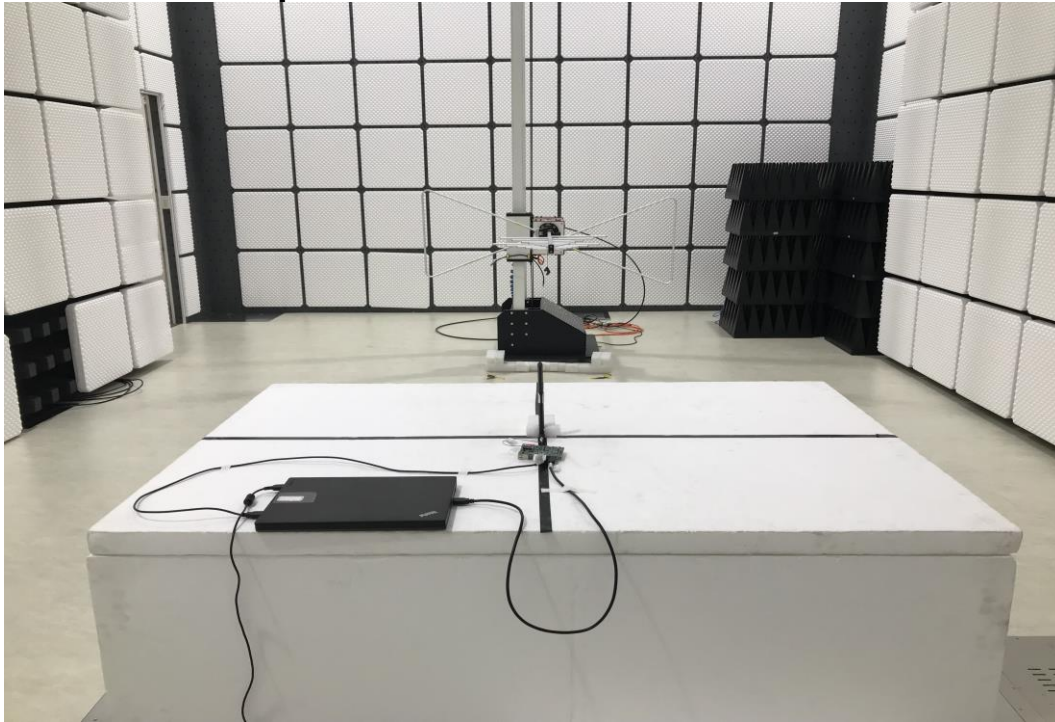
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

- End of Test Report -

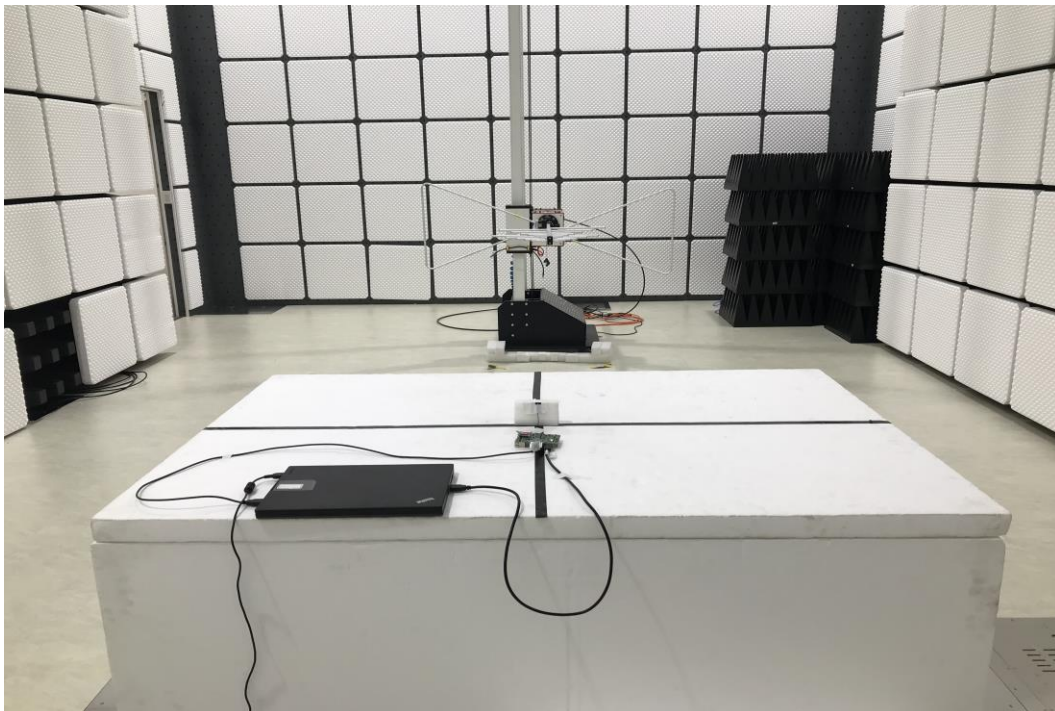
APPENDIX-A Test Photo

Radiation (Below 1GHz)

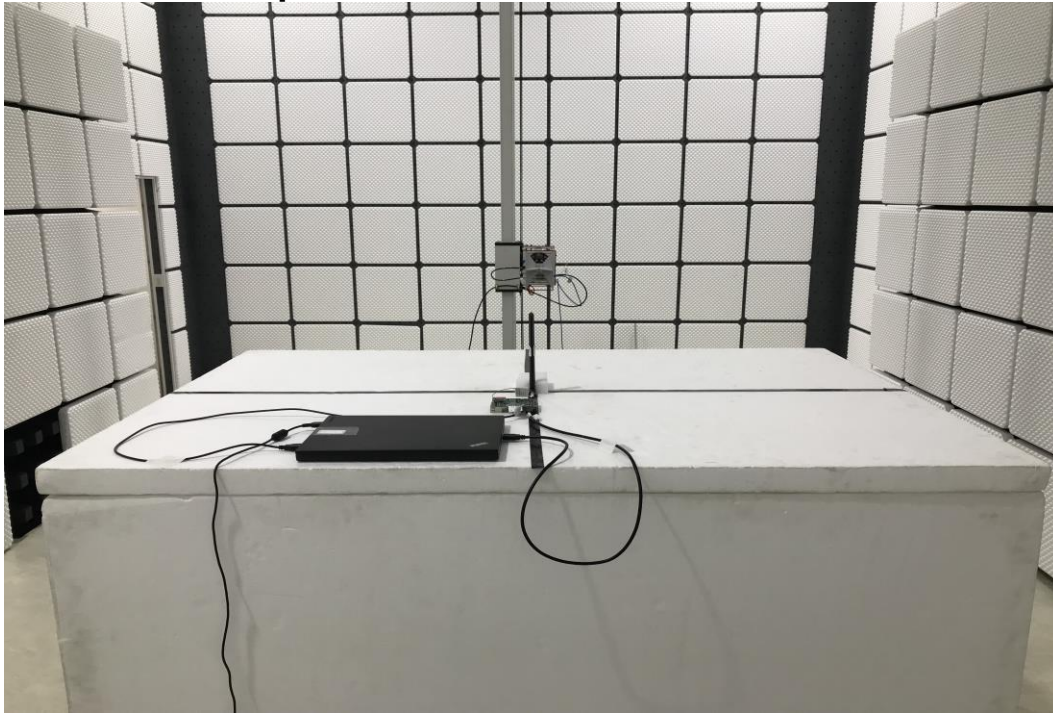
Test Mode 1: Dipole Antenna



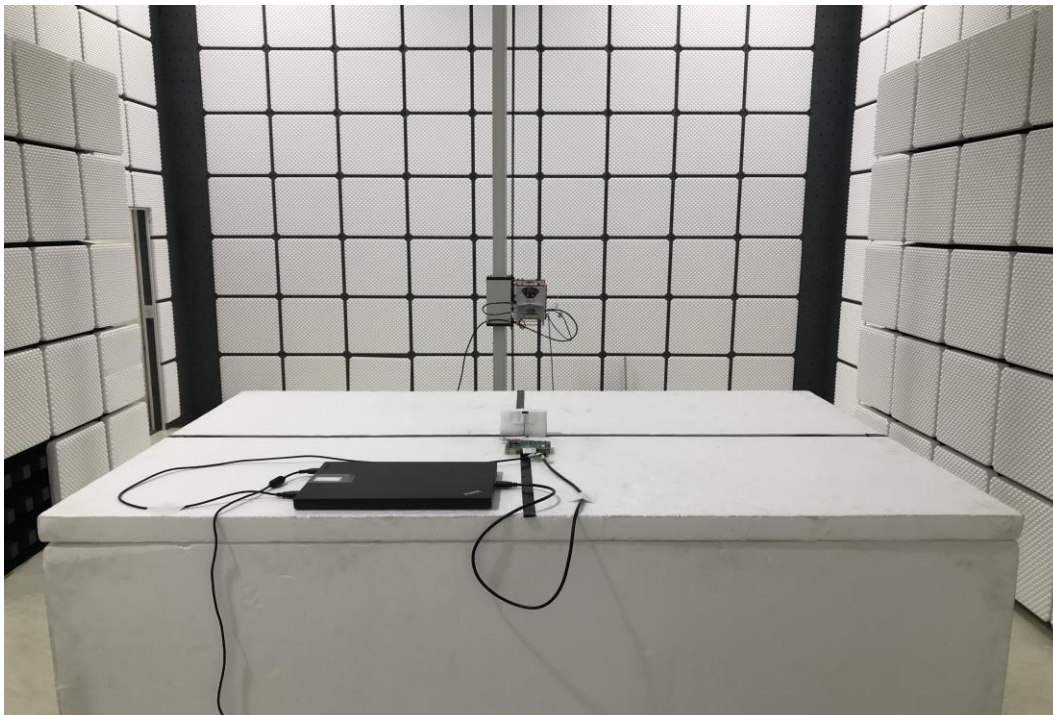
Test Mode 2: PIFA Antenna



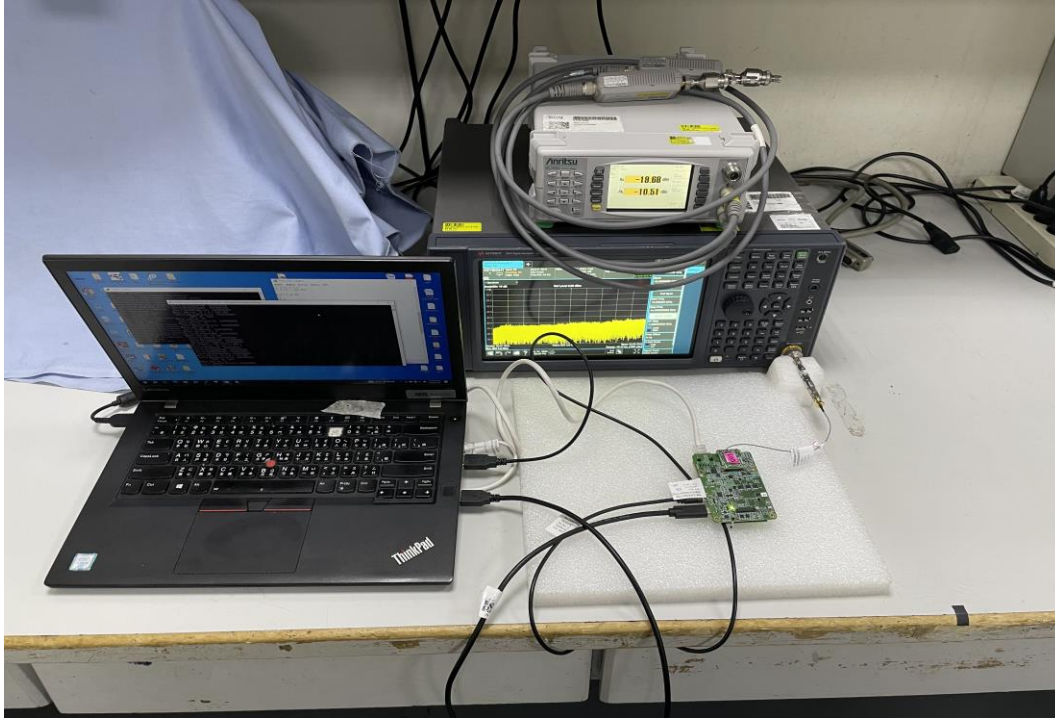
Radiation (Above 1GHz) Test Mode 1: Dipole Antenna



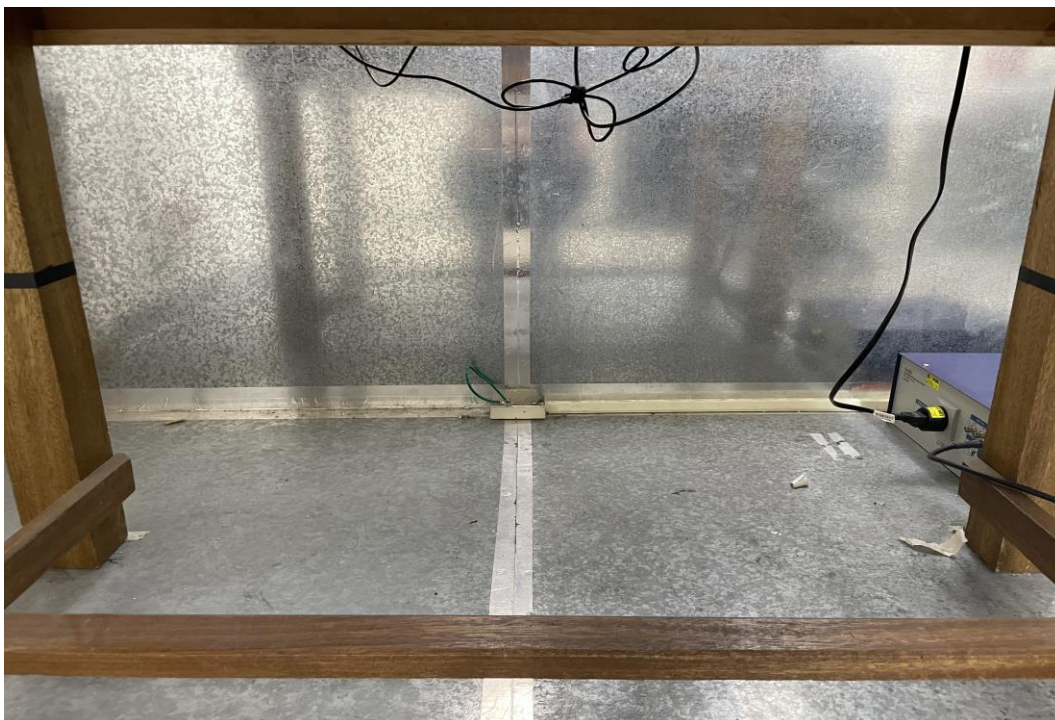
Test Mode 2: PIFA Antenna

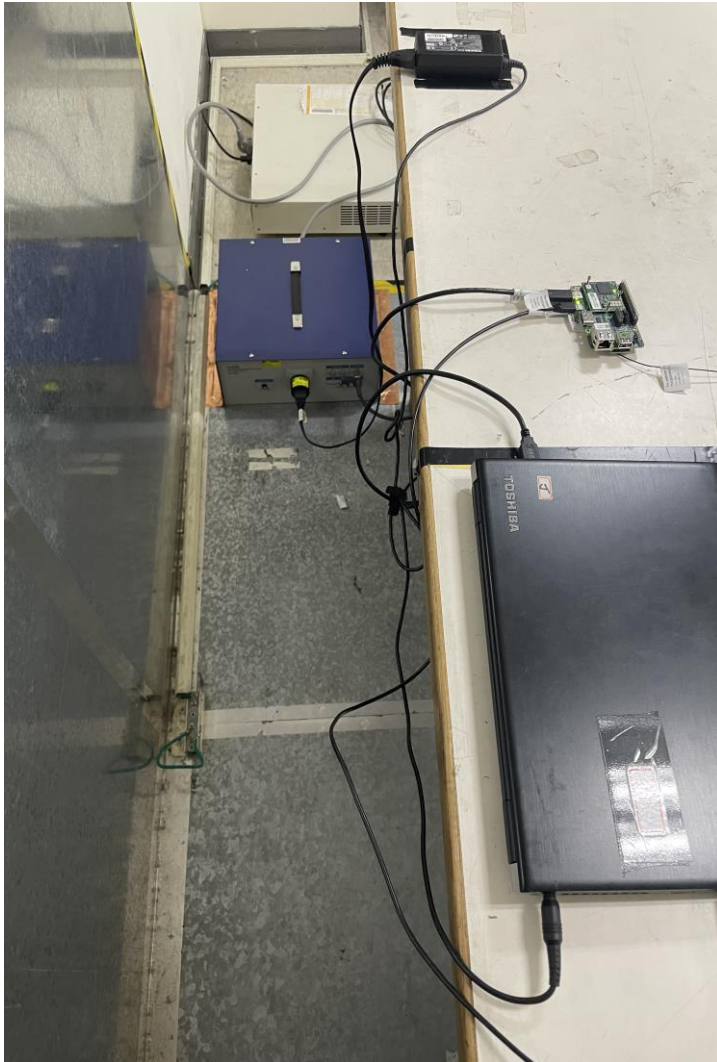


Conducted Emission Set Up Photo



Conduction Test Mode 1: Dipole Antenna





Test Mode 2: PIFA Antenna

