

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
Report No.: RFBBUI-WTW-P21040655Z
FCC ID: TX2-RTL8852BE
Product: 11ax RTL8852BE Combo module
Brand: REALTEK
Model No.: RTL8852BE
Received Date: 2024/2/6
Test Date: 2024/3/21 ~ 2024/5/27
Issued Date: 2024/5/31

Applicant: Realtek Semiconductor Corp.
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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
FCC Registration / 723255 / TW2022
Designation Number:

Approved by: _____, **Date:** 2024/5/31
May Chen / Manager

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Prepared by : Phoenix Huang / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBBUI-WTW-P21040655Z	Original release.	2024/5/31

1 Certificate

Product: 11ax RTL8852BE Combo module

Brand: REALTEK

Test Model: RTL8852BE

Sample Status: Engineering sample

Applicant: Realtek Semiconductor Corp.

Test Date: 2024/3/21 ~ 2024/5/27

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Measurement ANSI C63.10-2013

procedure: KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
Standard / Clause	Test Item	Result	Remark
15.247(b)	RF Output Power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	N/A	Refer to Note 1 below
15.247(a)(2)	6 dB Bandwidth	N/A	Refer to Note 1 below
15.247(d)	Conducted Out of Band Emissions	N/A	Refer to Note 1 below
15.207	AC Power Conducted Emissions	Pass	Minimum passing margin is -15.15 dB at 0.16172 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -4.2 dB at 896.16 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -3.3 dB at 7311.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is i-pex(MHF) not a standard connector.

Note:

1. Only RF Output Power, AC Power Conducted Emissions and Unwanted Emissions test items were performed for this addendum. The others testing data refer to original test report.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.1 dB
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.1 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description

Product	11ax RTL8852BE Combo module
Brand	REALTEK
Test Model	RTL8852BE
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: up to 11 Mbps 802.11g: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ax: up to 573.5 Mbps
Operating Frequency	2.412 GHz ~ 2.472 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20): 13 802.11n (HT40), VHT40, 802.11ax (HE40): 9
Resource Unit (RU)	Single RU: 26-tone, 52-tone, 106-tone, 242-tone, 484-tone
Output Power	1TX: 167.109 mW (22.23 dBm) 2TX CDD Mode: 288.485 mW (24.6 dBm)

Note:

- This report is prepared for FCC class II permissive change. The difference compared with the Report No.: RFBBUI-WTW-P21040655E as the following:
 - ◆ Add PCIe+USB E-Key for dual antenna SKU.
 - ◆ Add component (R4) for identified voltage in the new interface.
 - ◆ Software change.
- According to above conditions, only RF Output Power, AC Power Conducted Emissions and Unwanted Emissions test items need to be performed and all data was tested to meet the requirements.
- There are Bluetooth and WLAN (2.4 GHz & 5 GHz) technology used for the EUT.
- Simultaneously transmission condition.

Condition	Technology	
1	WLAN (5 GHz)	Bluetooth

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

- The EUT has below HW SKU configuration, as below table:

Original		
SKU No.	Interface	Description
1	PCIe + USB (AE-Key)	Single antenna port
2	PCIe + USB (AE-Key)	Dual antenna port
3	PCIe + UART (E-Key)	Dual antenna port
Newly		
SKU No.	Interface	Description
4	PCIe + USB (E-Key)	Dual antenna port

6. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.
7. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Ant. Set	RF Chain No.	Brand	Model	Ant. Net Gain (dBi)	Frequency Range (GHz)	Ant. Type	Connector Type	Cable Length (mm)
1	Chain 0	ARISTOTLE	RFA-27-JP326-MHF4300	3.5	2.4~2.4835	PIFA	i-pex(MHF)	300
				5	5.15~5.85			
				5	5.875~7.125			
	Chain 1	ARISTOTLE	RFA-27-JP326-MHF4300	3.5	2.4~2.4835	PIFA	i-pex(MHF)	300
				5	5.15~5.85			
				5	5.875~7.125			
2	Chain 0	ARISTOTLE	RFA-27-C38H1-MHF4300	3	2.4~2.4835	Dipole	i-pex(MHF)	300
				5	5.15~5.85			
				5	5.875~7.125			
	Chain 1	ARISTOTLE	RFA-27-C38H1-MHF4300	3	2.4~2.4835	Dipole	i-pex(MHF)	300
				5	5.15~5.85			
				5	5.875~7.125			
3	Chain 0	ARISTOTLE	RFA-27-JP378-4B-200	3.38	2.4~2.4835	Monopole	i-pex(MHF)	200
				4.81	5.15~5.85			
				4.86	5.875~7.125			
	Chain 1	ARISTOTLE	RFA-27-JP378-4B-200	3.38	2.4~2.4835	Monopole	i-pex(MHF)	200
				4.81	5.15~5.85			
				4.86	5.875~7.125			

Note: The Bluetooth technology will fix transmission on Chain 1.

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

2.4 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11b	2TX/1TX Diversity	2RX
802.11g	2TX/1TX Diversity	2RX
802.11n (HT20)	2TX/1TX Diversity	2RX
802.11n (HT40)	2TX/1TX Diversity	2RX
VHT20	2TX/1TX Diversity	2RX
VHT40	2TX/1TX Diversity	2RX
802.11ax (HE20)	2TX/1TX Diversity	2RX
802.11ax (HE40)	2TX/1TX Diversity	2RX
802.11ax (RU26/52/106/242/484)	2TX/1TX Diversity	2RX

Note:

- All of modulation mode support beamforming function except 802.11b/g modulation mode.
- The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
- The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), VHT mode for 20 MHz (40 MHz) and 802.11ax mode for 20 MHz (40 MHz) therefore the manufacturer will control the power for 802.11n/VHT mode is same as the 802.11ax mode or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

13 channels are provided for 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
1	2412 MHz	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467MHz
6	2437 MHz	13	2472MHz
7	2442 MHz		

9 channels are provided for 802.11n (HT40), VHT40, 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
3	2422 MHz	8	2447 MHz
4	2427 MHz	9	2452 MHz
5	2432 MHz	10	2457MHz
6	2437 MHz	11	2462MHz
7	2442 MHz		

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture)
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Following channel(s) was (were) selected for the final test as listed below:

Test Item	EUT Configure Mode	Mode	Transmitter Configuration	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU Index
RF Output Power	-	802.11b	1TX / 2TX	SISO / CDD	1, 6, 11, 12, 13	DBPSK	1Mb/s	NA
		802.11g			1, 6, 11, 12, 13	BPSK	6Mb/s	NA
		802.11ax (HE20)			1, 6, 11, 12, 13	BPSK	MCS0	NA
		802.11ax (HE40)			3, 6, 9, 10, 11	BPSK	MCS0	NA
		802.11ax (HE20) 26-tone RU			1, 6, 11, 12, 13	BPSK	MCS0	0, 4, 8, 8, 8
		802.11ax (HE20) 52-tone RU			1, 6, 11, 12, 13	BPSK	MCS0	37, 39, 40, 40, 40
		802.11ax (HE20) 106-tone RU			1, 6, 11, 12, 13	BPSK	MCS0	53, 54, 54, 54, 54
AC Power Conducted Emissions	A	802.11g	2TX	CDD	6	BPSK	6Mb/s	NA
Unwanted Emissions below 1 GHz	A, B, C	802.11g	1TX / 2TX	SISO / CDD	6	BPSK	6Mb/s	NA
Unwanted Emissions above 1 GHz	A, B, C	802.11g	2TX	CDD	1, 6, 11, 12, 13	BPSK	6Mb/s	NA
EUT Configure Mode:	A	PIFA antenna with PCIe + USB E key interface + dual antenna port						
	B	Dipole antenna with PCIe + USB E key interface + dual antenna port						
	C	Monopole antenna with PCIe + USB E key interface + dual antenna port						

Note: In the original report

- For EUT antennas, the worst case was found when positioned on (X / Y / Z axis):
 - PIFA antenna: X-axis,
 - Dipole antenna: Y-axis used for typical placement,
 - Monopole antenna: Y-axis
- For EUT 1TX diversity configuration the worst chain on Chain 0.
- For Partial RU the worst case occurs in 20MHz bandwidth(RU 26/52/106).

3.5 Duty Cycle of Test Signal

802.11b: Duty cycle = 8.188 ms / 8.203 ms x 100% = 99.8%

802.11g: Duty cycle = 1.359 ms / 1.375 ms x 100% = 98.8%

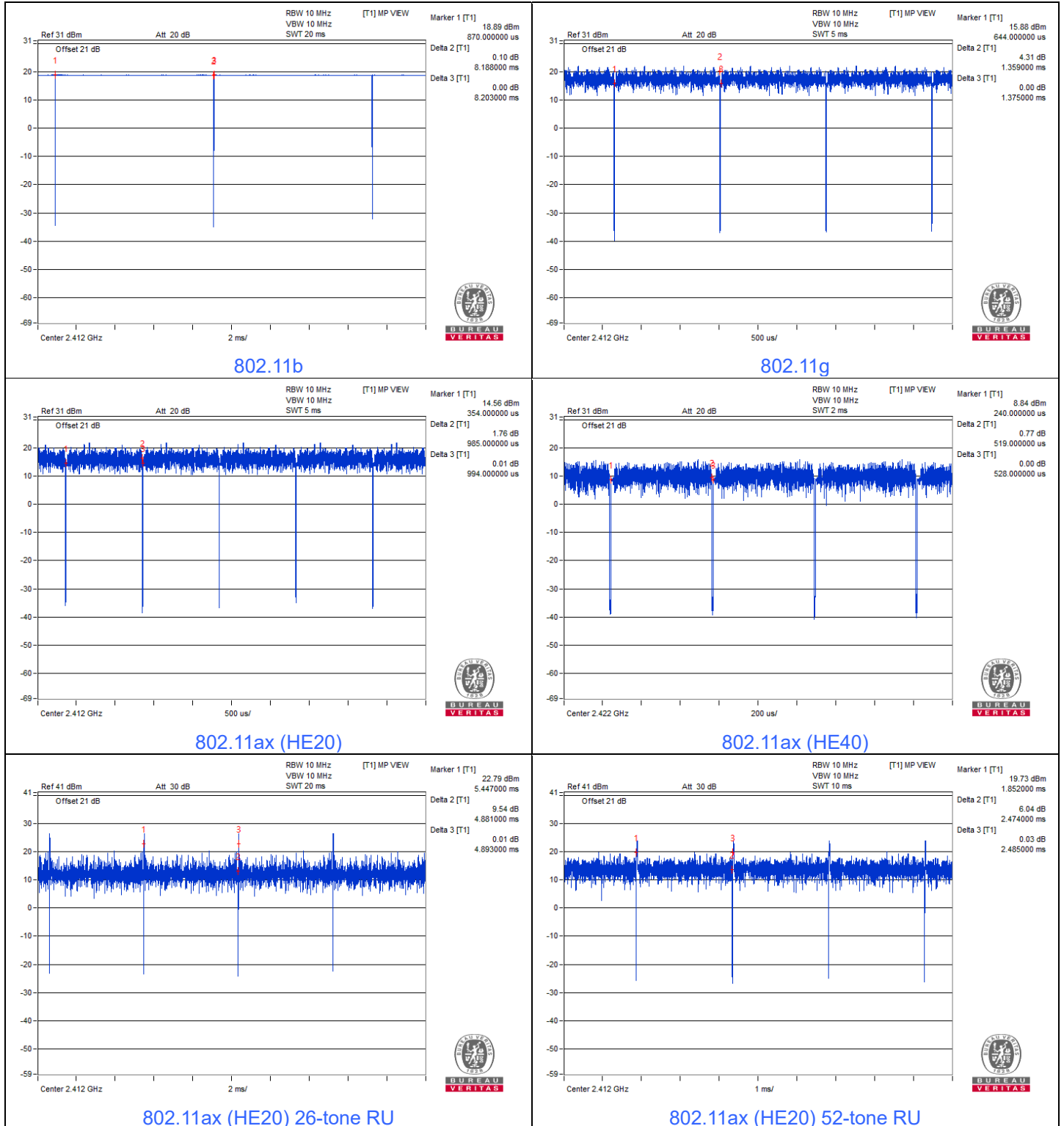
802.11ax (HE20): Duty cycle = 0.985 ms / 0.994 ms x 100% = 99.1%

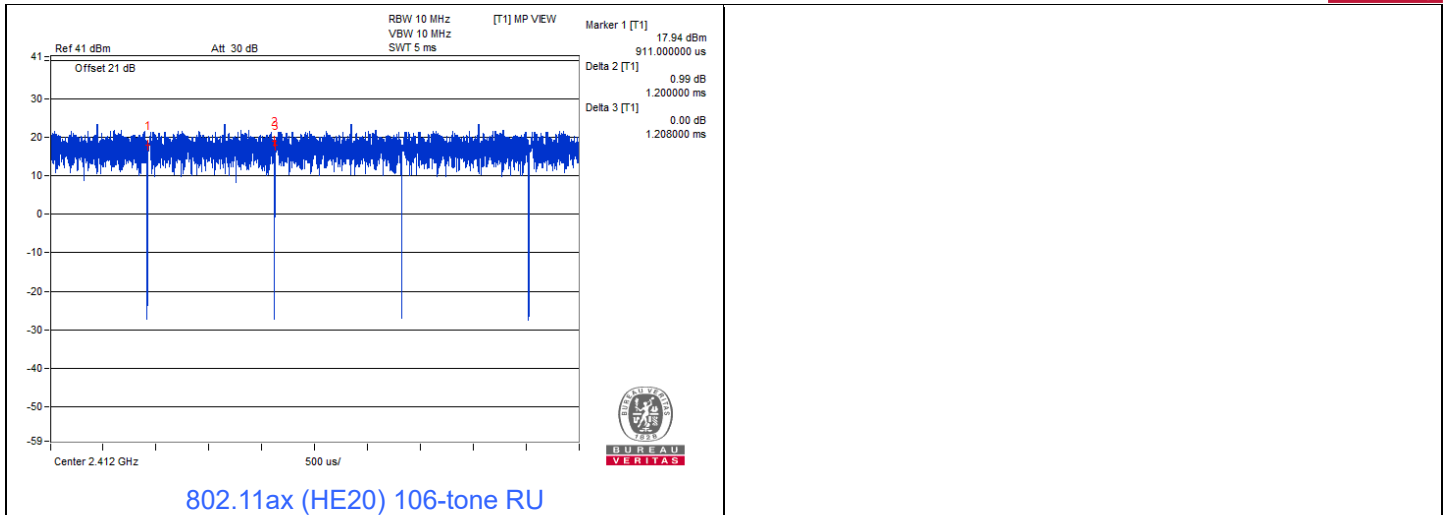
802.11ax (HE40): Duty cycle = 0.519 ms / 0.528 ms x 100% = 98.3%

802.11ax (HE20) 26-tone RU: Duty cycle = 4.881 ms / 4.893 ms x 100% = 99.8%

802.11ax (HE20) 52-tone RU: Duty cycle = 2.474 ms / 2.485 ms x 100% = 99.6%

802.11ax (HE20) 106-tone RU: Duty cycle = 1.2 ms / 1.208 ms x 100% = 99.3%





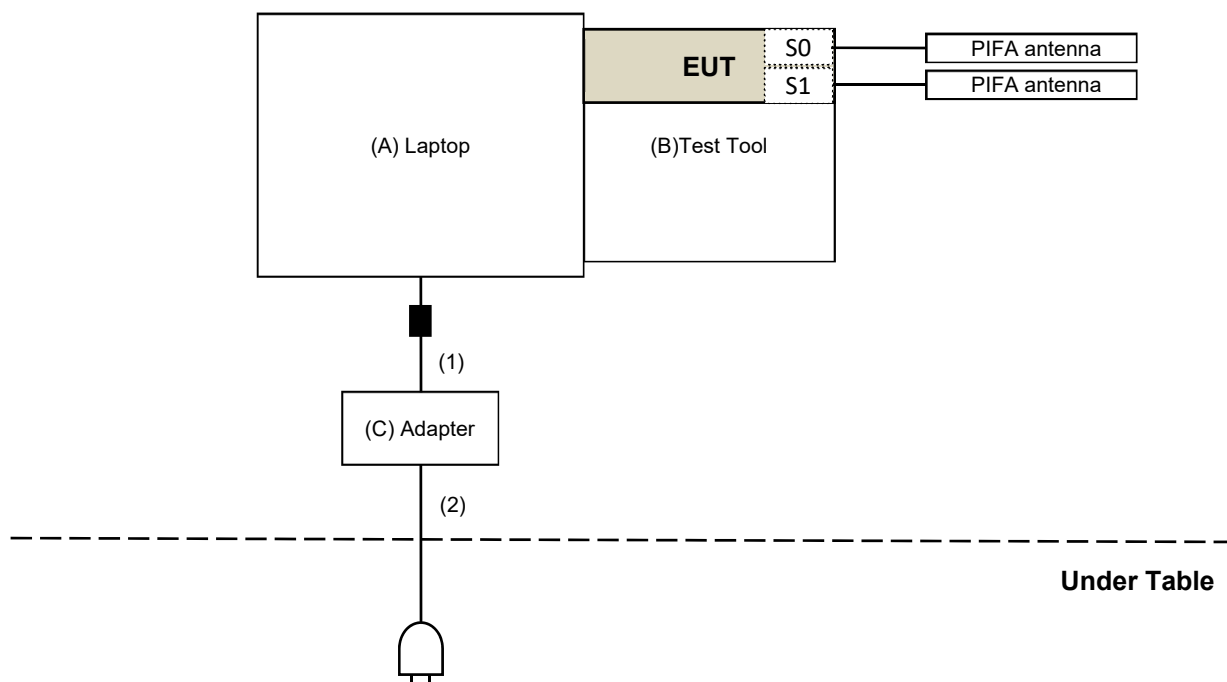
3.6 Test Program Used and Operation Descriptions

Controlling software (RTL8852B MP Toolkit V1.0.7) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

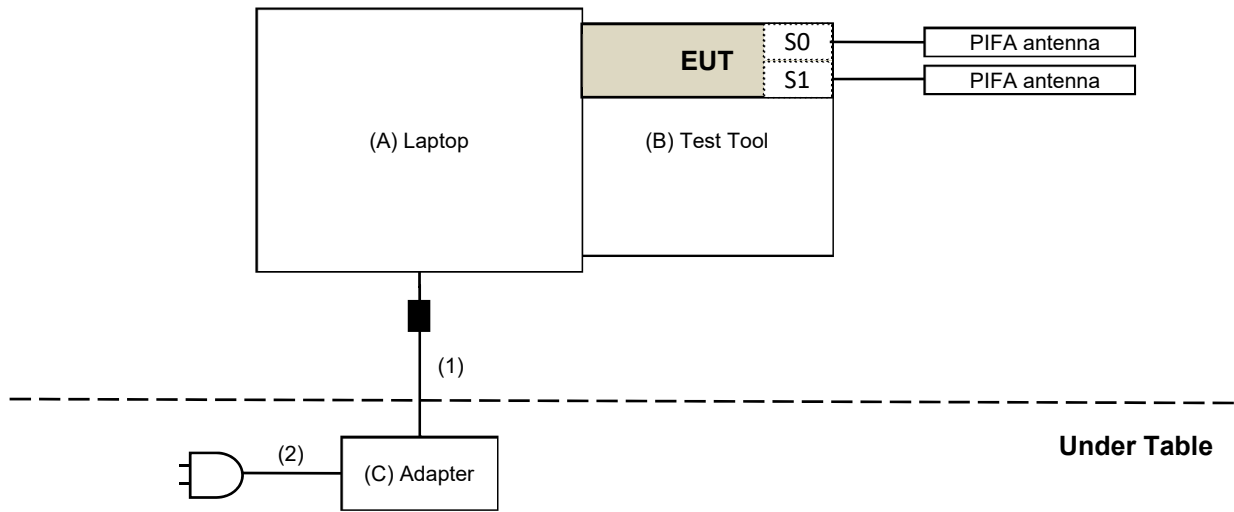
3.7 Connection Diagram of EUT and Peripheral Devices

For AC Power Conducted Emission Test

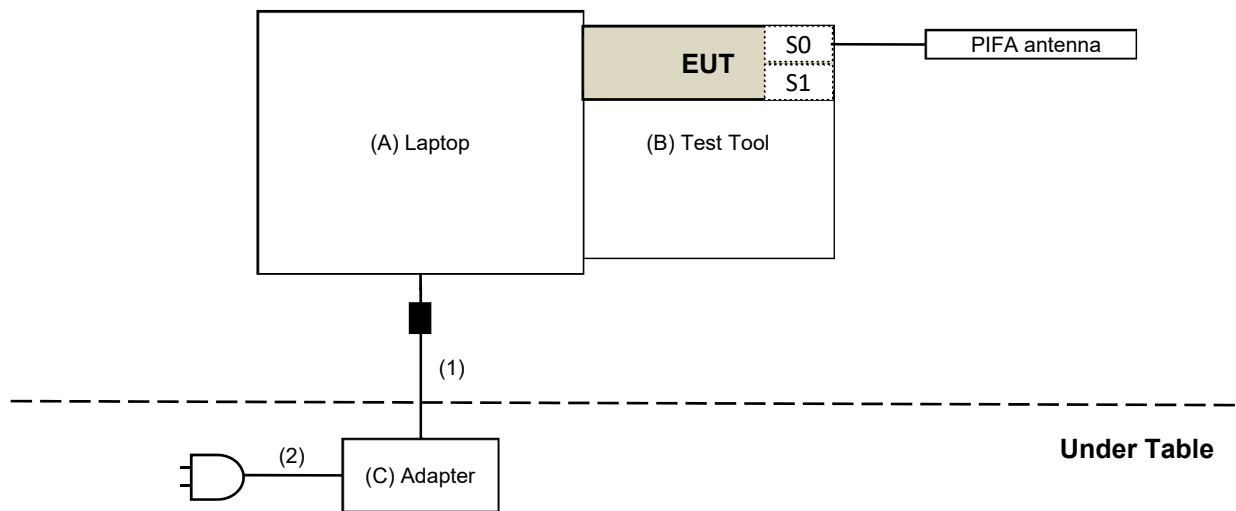
Mode A



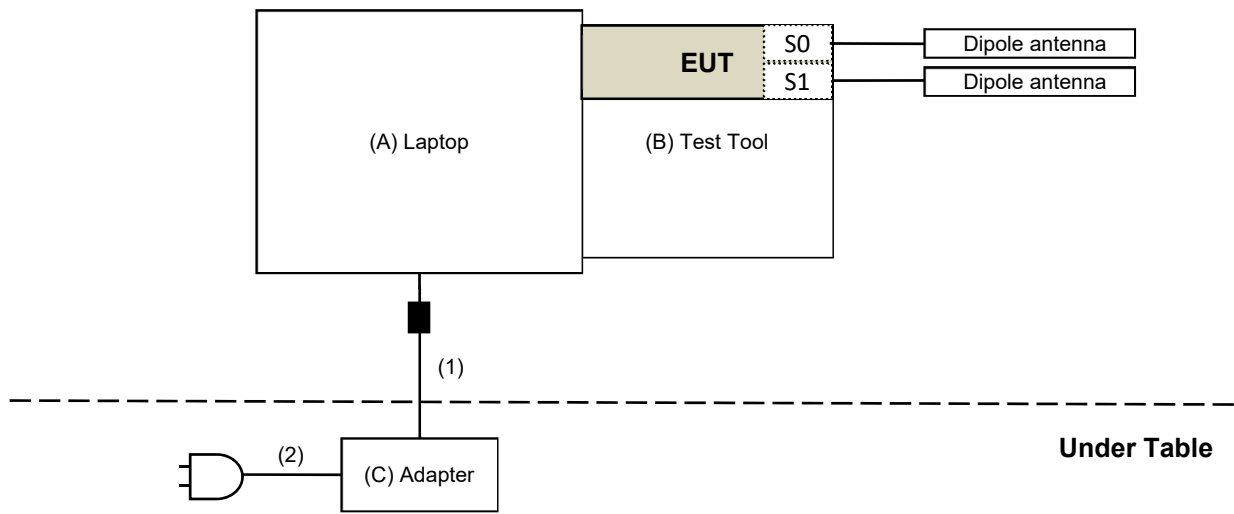
For Unwanted Emissions test
Mode A (PIFA antenna 2TX)



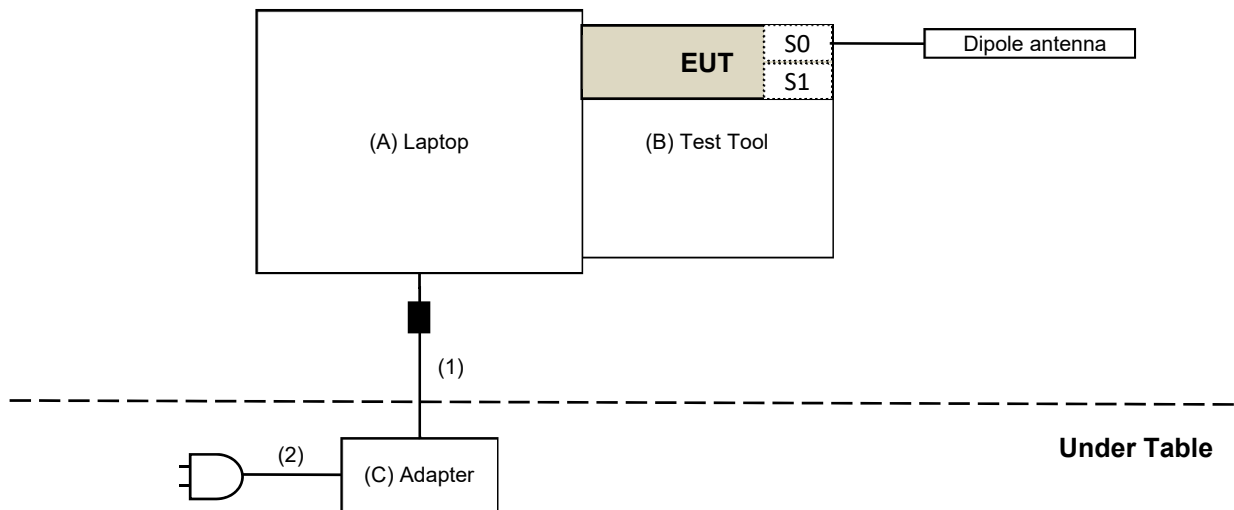
Mode A (PIFA antenna 1TX)



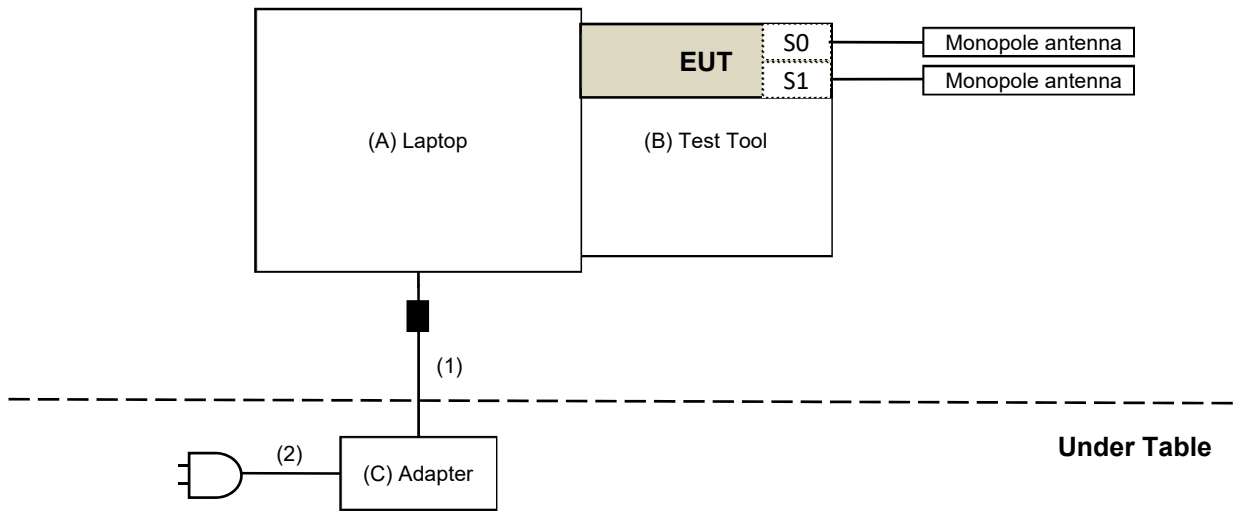
Mode B (Dipole antenna 2TX)



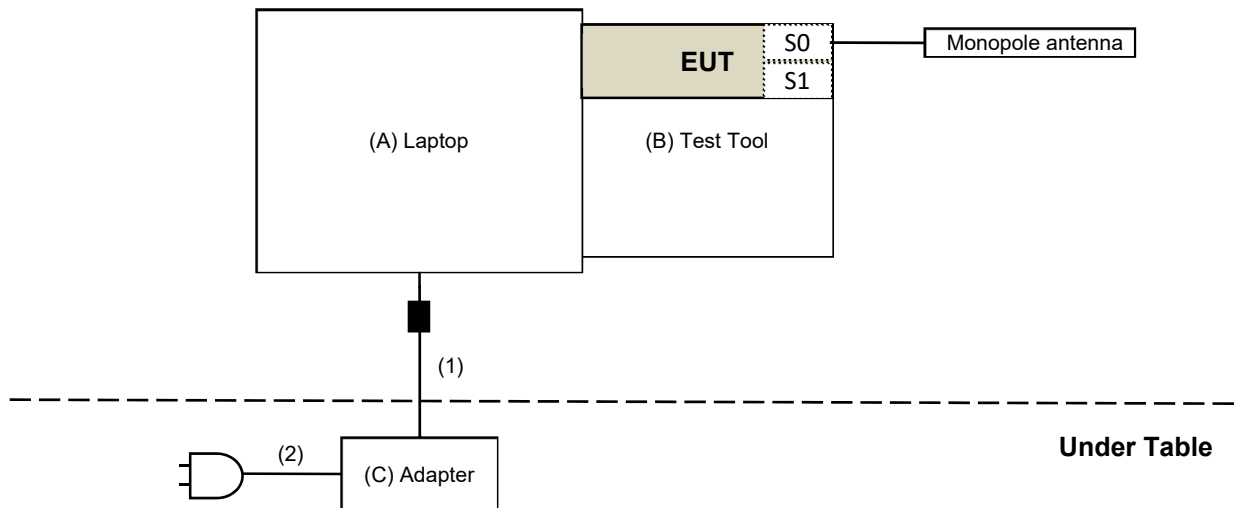
Mode B (Dipole antenna 1TX)



Mode C (Monopole antenna 2TX)



Mode C (Monopole antenna 1TX)



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	DELL	E6420	B92T3R1	FCC DoC	Provided by Lab
B	Test Tool	Realtek	N/A	N/A	N/A	Supplied by applicant
C	Adapter	DELL	LA65NS2-01	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	1	Provided by Lab
2	AC Cable	1	1	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Pulse Power Sensor Anritsu	MA2411B	1726434	2023/6/19	2024/6/18
RF Power Meter Anritsu	ML2495A	1529002	2023/6/17	2024/6/16

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2024/5/24

4.2 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance Telegartner	50 ohm	3	2023/10/20	2024/10/19
EMI Test Receiver R&S	ESCS 30	847124/029	2023/10/18	2024/10/17
Fixed Attenuator STI	STI02-2200-10	005	2024/2/19	2025/2/18
LISN R&S	ESH3-Z5	835239/001	2023/4/6	2024/4/5
		848773/004	2023/10/13	2024/10/12
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2024/2/19	2025/2/18
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2024/3/21 ~ 2024/3/22

4.3 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-0842	2023/10/12	2024/10/11
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR7	102026	2023/4/6	2024/4/5
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	2023/12/12	2024/12/11
Loop Antenna Electro-Metrics	EM-6879	264	2024/2/23	2025/2/22
Preamplifier EMCI	EMC330N	980538	2023/4/6	2024/4/5
	EMC001340	980142	2024/2/19	2025/2/18
PXA Signal Analyzer Keysight	N9030B	MY57141948	2023/5/19	2024/5/18
RF Coaxial Cable JYBAO	5D-FB	LOOPCAB-001	2024/2/19	2025/2/18
		LOOPCAB-002	2024/2/19	2025/2/18
RF Coaxial Cable PEWC	8D	966-5-1	2023/4/6	2024/4/5
		966-5-2	2023/4/6	2024/4/5
		966-5-3	2023/4/6	2024/4/5
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 5.
2. Tested Date: 2024/3/22 ~ 2024/3/25

4.4 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR7	102026	2024/3/25	2025/3/24
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1819	2023/11/12	2024/11/11
	BBHA 9170	9170-739	2023/11/12	2024/11/11
Preamplifier EMCI	EMC12630SE	980509	2024/1/29	2025/1/28
	EMC184045SE	980387	2023/8/9	2024/8/8
PXA Signal Analyzer Keysight	N9030B	MY57141948	2024/5/20	2025/5/19
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2024/1/29	2025/1/28
	EMC102-KM-KM-4000	200214	2024/1/29	2025/1/28
	EMC104-SM-SM-1500	180503	2024/3/16	2025/3/15
	EMC104-SM-SM-2000	180501	2024/3/16	2025/3/15
	EMC104-SM-SM-6000	180506	2024/3/16	2025/3/15
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 5.
2. Tested Date: 2024/5/24 ~ 2024/5/27

5 Limits of Test Items

5.1 RF Output Power

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

5.2 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.3 Unwanted Emissions below 1 GHz

Radiated emissions up to 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = $20 \log$ Emission level (uV/m).

5.4 Unwanted Emissions above 1 GHz

Radiated emissions above 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

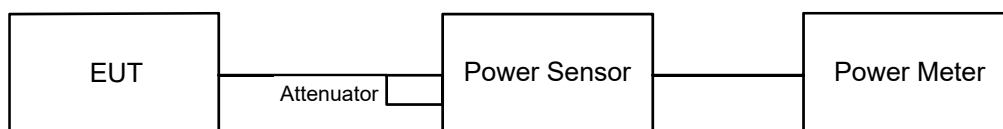
Notes:

3. The lower limit shall apply at the transition frequencies.
4. Emission level (dBuV/m) = 20 log Emission level (uV/m).
5. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



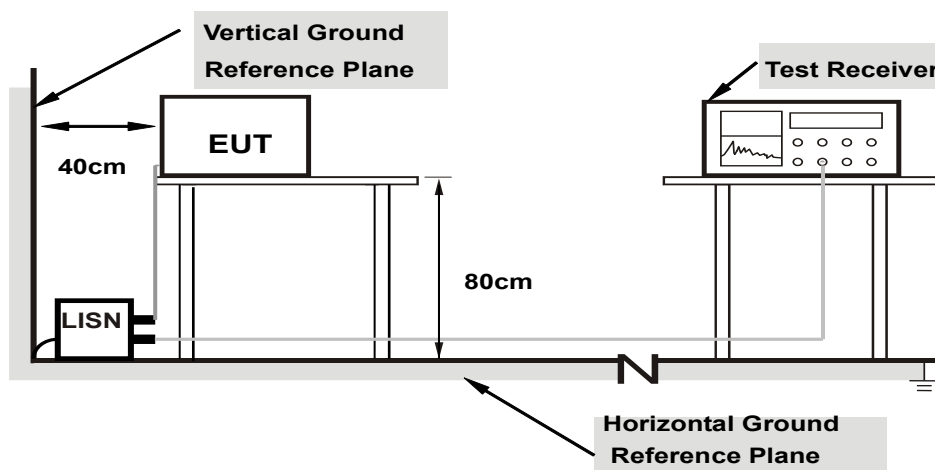
6.1.2 Test Procedure

Average Power:

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

6.2 AC Power Conducted Emissions

6.2.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.2.2 Test Procedure

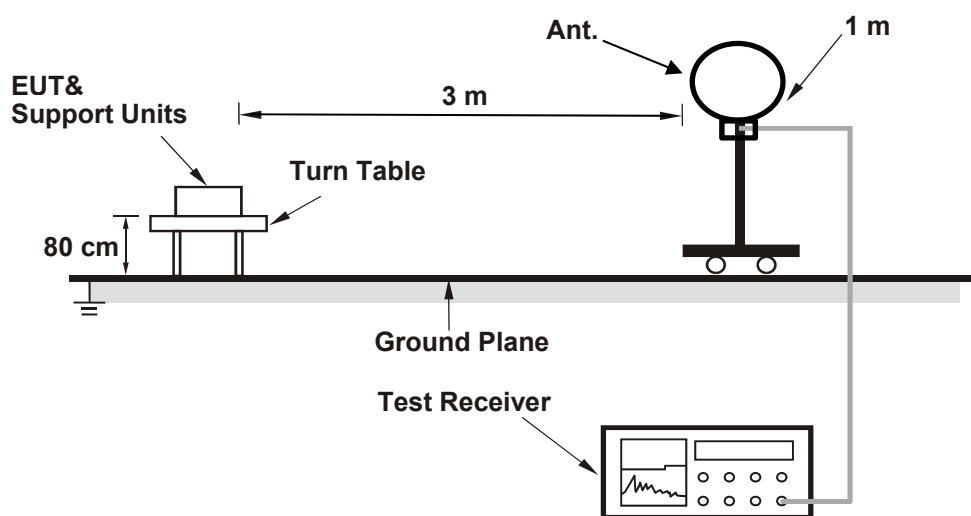
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

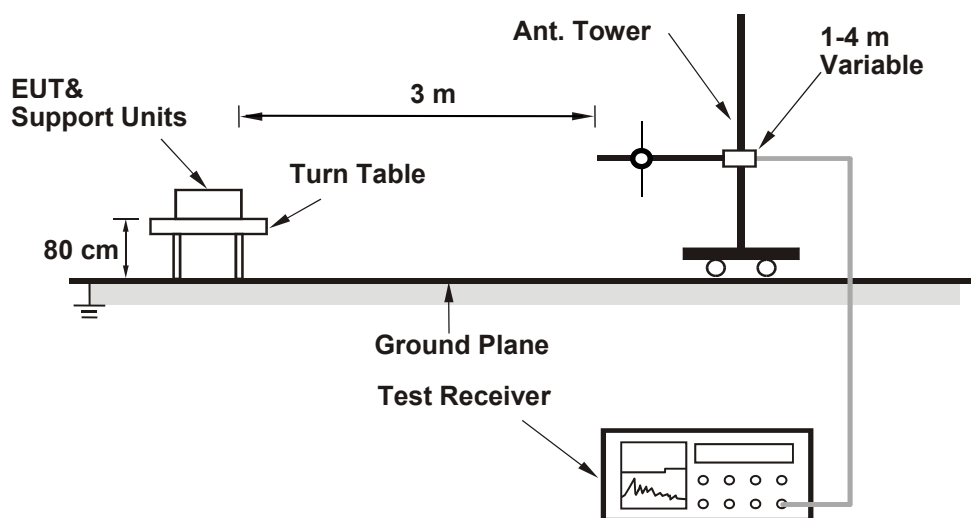
6.3 Unwanted Emissions below 1 GHz

6.3.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.3.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

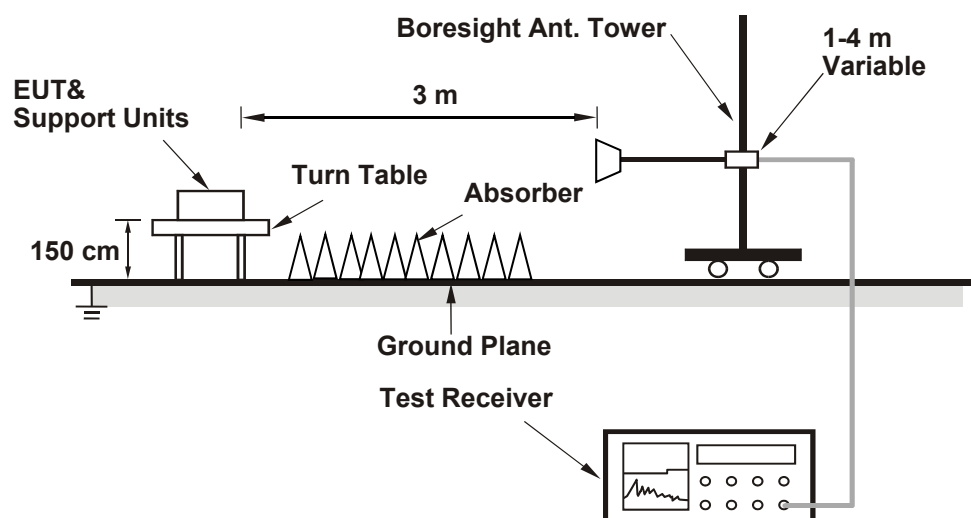
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

6.4 Unwanted Emissions above 1 GHz

6.4.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.4.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	3.3 Vdc	Environmental Conditions:	26°C, 63% RH	Tested By:	Katina Lu
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1TX

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	161.808	22.09	30	Pass
6	2437	157.398	21.97	30	Pass
11	2462	155.955	21.93	30	Pass
12	2467	75.683	18.79	30	Pass
13	2472	32.885	15.17	30	Pass

Note: The antenna gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	102.329	20.10	30	Pass
6	2437	167.109	22.23	30	Pass
11	2462	93.541	19.71	30	Pass
12	2467	30.549	14.85	30	Pass
13	2472	23.55	13.72	30	Pass

Note: The antenna gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	105.439	20.23	30	Pass
6	2437	148.252	21.71	30	Pass
11	2462	84.528	19.27	30	Pass
12	2467	29.648	14.72	30	Pass
13	2472	23.878	13.78	30	Pass

Note: The antenna gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
3	2422	76.384	18.83	30	Pass
6	2437	82.794	19.18	30	Pass
9	2452	67.764	18.31	30	Pass
10	2457	63.68	18.04	30	Pass
11	2462	57.412	17.59	30	Pass

Note: The antenna gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	63.241	18.01	30	Pass
6	2437	160.325	22.05	30	Pass
11	2462	57.28	17.58	30	Pass
12	2467	29.309	14.67	30	Pass
13	2472	8.147	9.11	30	Pass

Note: The antenna gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	112.72	20.52	30	Pass
6	2437	160.325	22.05	30	Pass
11	2462	91.833	19.63	30	Pass
12	2467	79.983	19.03	30	Pass
13	2472	11.376	10.56	30	Pass

Note: The antenna gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	103.039	20.13	30	Pass
6	2437	153.109	21.85	30	Pass
11	2462	89.536	19.52	30	Pass
12	2467	56.234	17.50	30	Pass
13	2472	31.405	14.97	30	Pass

Note: The antenna gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

2TX
802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	19.51	19.73	183.303	22.63	30	Pass
6	2437	19.55	19.70	183.483	22.64	30	Pass
11	2462	19.48	19.84	185.099	22.67	30	Pass
12	2467	14.85	14.96	61.882	17.92	30	Pass
13	2472	11.49	11.62	28.614	14.57	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	16.44	16.65	90.294	19.56	30	Pass
6	2437	21.50	21.68	288.485	24.60	30	Pass
11	2462	16.66	16.81	94.318	19.75	30	Pass
12	2467	12.66	12.74	37.243	15.71	30	Pass
13	2472	11.44	11.86	29.278	14.67	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	15.50	15.89	74.296	18.71	30	Pass
6	2437	21.34	21.68	283.376	24.52	30	Pass
11	2462	15.57	15.90	74.962	18.75	30	Pass
12	2467	12.63	12.91	37.867	15.78	30	Pass
13	2472	11.53	11.74	29.151	14.65	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	14.31	14.77	56.969	17.56	30	Pass
6	2437	17.51	17.75	115.93	20.64	30	Pass
9	2452	14.49	14.85	58.668	17.68	30	Pass
10	2457	11.73	11.87	30.275	14.81	30	Pass
11	2462	10.53	10.82	23.376	13.69	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	16.15	16.26	83.477	19.22	30	Pass
6	2437	19.65	18.91	170.061	22.31	30	Pass
11	2462	15.93	16.13	80.195	19.04	30	Pass
12	2467	13.64	13.78	46.999	16.72	30	Pass
13	2472	8.80	8.52	14.698	11.67	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	17.52	17.71	115.514	20.63	30	Pass
6	2437	19.71	19.58	184.323	22.66	30	Pass
11	2462	17.58	17.82	117.814	20.71	30	Pass
12	2467	12.56	12.92	37.619	15.75	30	Pass
13	2472	8.66	8.93	15.161	11.81	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	18.37	18.51	139.665	21.45	30	Pass
6	2437	20.92	20.75	242.445	23.85	30	Pass
11	2462	18.48	18.54	141.919	21.52	30	Pass
12	2467	16.03	16.06	80.451	19.06	30	Pass
13	2472	11.61	11.80	29.623	14.72	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.5 dBi < 6 dBi, so the output power limit shall not be reduced.

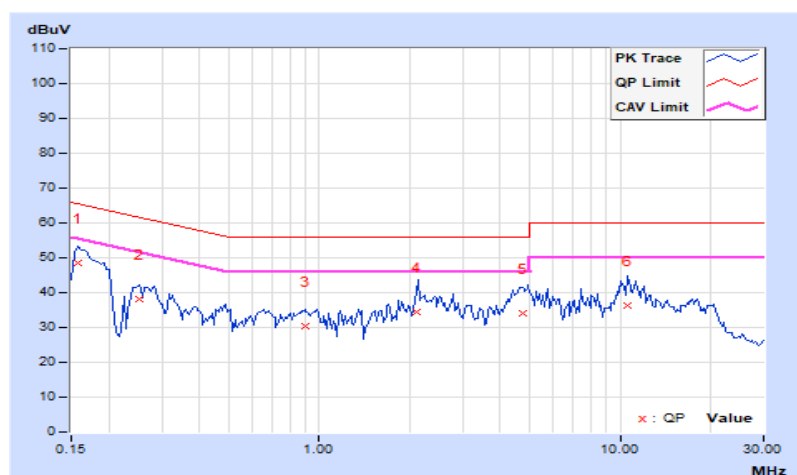
7.2 AC Power Conducted Emissions

RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	21°C, 71% RH
Tested By	Willy Lin		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	9.93	38.56	20.60	48.49	30.53	65.58	55.58	-17.09	-25.05
2	0.25156	9.93	28.04	13.47	37.97	23.40	61.71	51.71	-23.74	-28.31
3	0.89609	9.97	20.47	8.71	30.44	18.68	56.00	46.00	-25.56	-27.32
4	2.09766	10.02	24.58	15.38	34.60	25.40	56.00	46.00	-21.40	-20.60
5	4.72656	10.16	24.01	15.83	34.17	25.99	56.00	46.00	-21.83	-20.01
6	10.62500	10.51	25.84	18.91	36.35	29.42	60.00	50.00	-23.65	-20.58

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

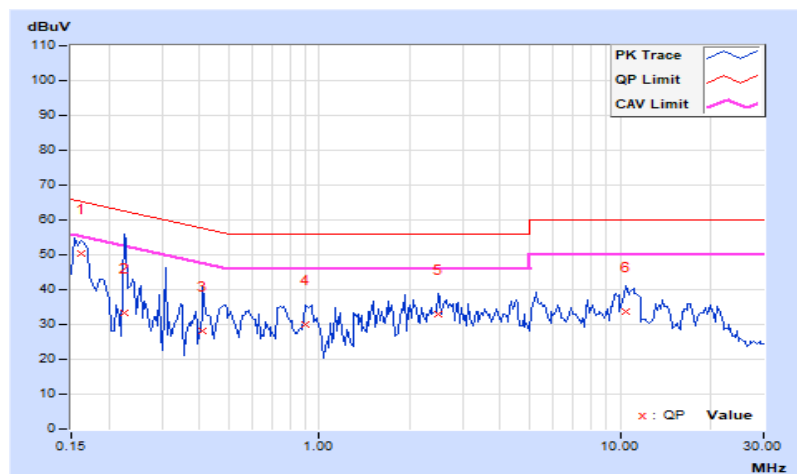


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	21°C, 71% RH
Tested By	Willy Lin		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	9.99	40.24	24.09	50.23	34.08	65.38	55.38	-15.15	-21.30
2	0.22422	9.99	23.34	-0.88	33.33	9.11	62.66	52.66	-29.33	-43.55
3	0.41172	10.00	18.25	6.89	28.25	16.89	57.61	47.61	-29.36	-30.72
4	0.90000	10.03	19.81	8.26	29.84	18.29	56.00	46.00	-26.16	-27.71
5	2.47266	10.09	23.02	14.36	33.11	24.45	56.00	46.00	-22.89	-21.55
6	10.41797	10.44	23.31	16.30	33.75	26.74	60.00	50.00	-26.25	-23.26

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



7.3 Unwanted Emissions below 1 GHz

Mode A

1TX

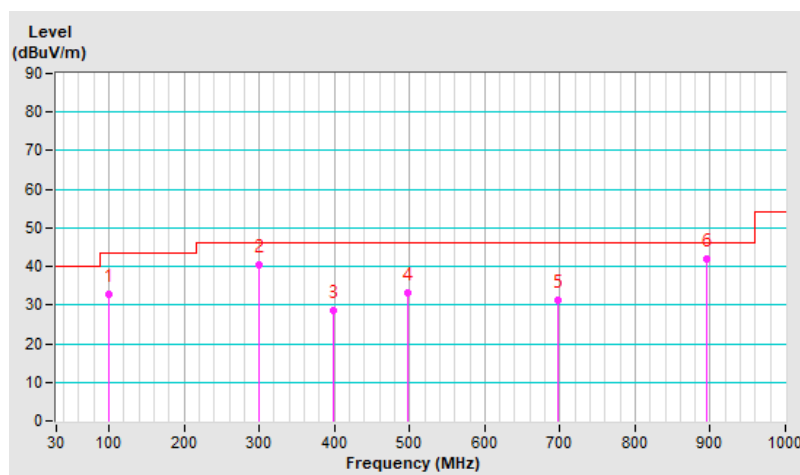
RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	21°C, 67% RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.77	32.9 QP	43.5	-10.6	3.00 H	305	55.1	-22.2
2	298.76	40.4 QP	46.0	-5.6	1.00 H	100	57.5	-17.1
3	398.33	28.7 QP	46.0	-17.3	3.00 H	104	43.2	-14.5
4	497.90	33.3 QP	46.0	-12.7	1.00 H	0	45.6	-12.3
5	697.07	31.4 QP	46.0	-14.6	2.00 H	158	39.8	-8.4
6	896.16	41.8 QP	46.0	-4.2	1.00 H	277	47.5	-5.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

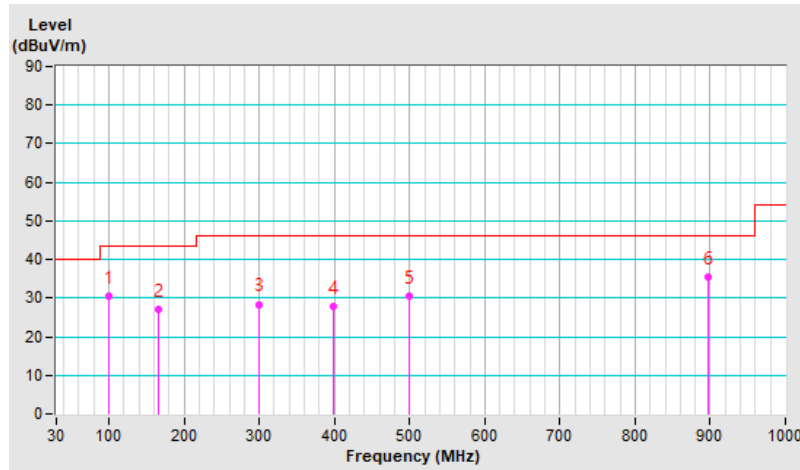


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	21°C, 67% RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.62	30.5 QP	43.5	-13.0	1.00 V	22	52.8	-22.3
2	166.28	27.0 QP	43.5	-16.5	1.00 V	53	44.7	-17.7
3	299.32	28.4 QP	46.0	-17.6	1.00 V	158	45.5	-17.1
4	398.31	27.8 QP	46.0	-18.2	1.00 V	188	42.3	-14.5
5	498.85	30.3 QP	46.0	-15.7	1.00 V	101	42.6	-12.3
6	898.00	35.6 QP	46.0	-10.4	1.00 V	278	41.4	-5.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



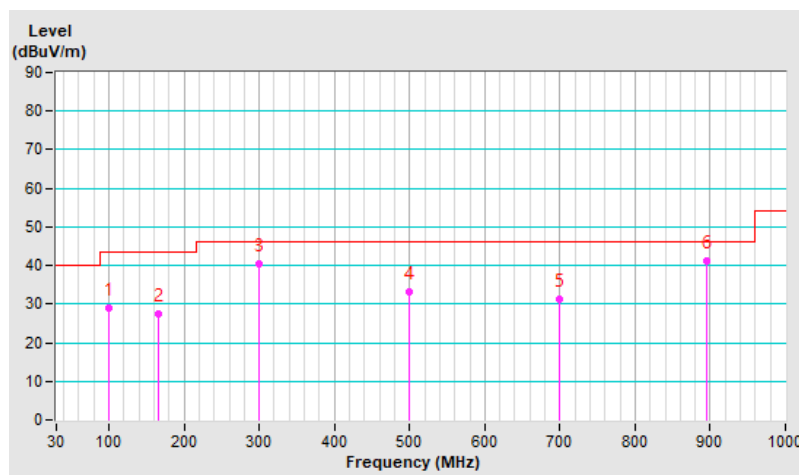
2TX

RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	21°C, 67% RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.74	28.9 QP	43.5	-14.6	2.00 H	270	51.1	-22.2
2	165.99	27.4 QP	43.5	-16.1	2.00 H	256	45.1	-17.7
3	299.32	40.5 QP	46.0	-5.5	1.00 H	106	57.6	-17.1
4	498.87	33.0 QP	46.0	-13.0	2.00 H	322	45.3	-12.3
5	698.45	31.3 QP	46.0	-14.7	2.00 H	170	39.6	-8.3
6	896.16	41.2 QP	46.0	-4.8	1.00 H	278	46.9	-5.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

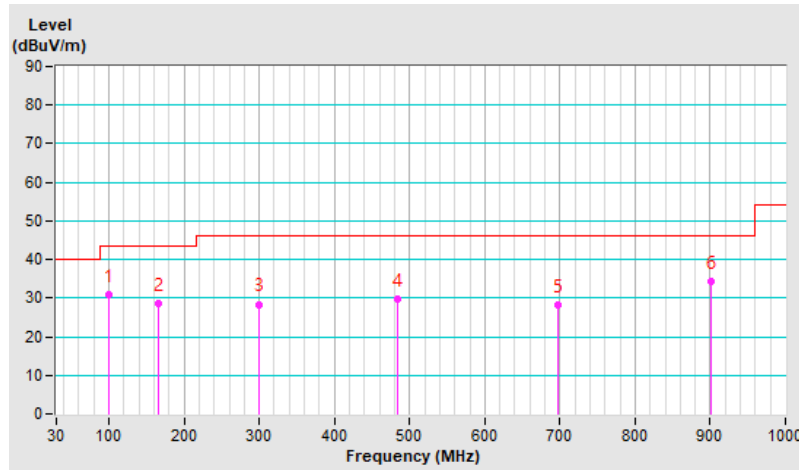


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	21°C, 67% RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.74	30.8 QP	43.5	-12.7	1.00 V	254	53.0	-22.2
2	165.99	28.4 QP	43.5	-15.1	1.00 V	54	46.1	-17.7
3	299.32	28.4 QP	46.0	-17.6	2.00 V	194	45.5	-17.1
4	484.64	29.8 QP	46.0	-16.2	1.00 V	179	42.3	-12.5
5	697.02	28.2 QP	46.0	-17.8	1.00 V	250	36.6	-8.4
6	901.67	34.4 QP	46.0	-11.6	3.00 V	265	40.1	-5.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



Mode B

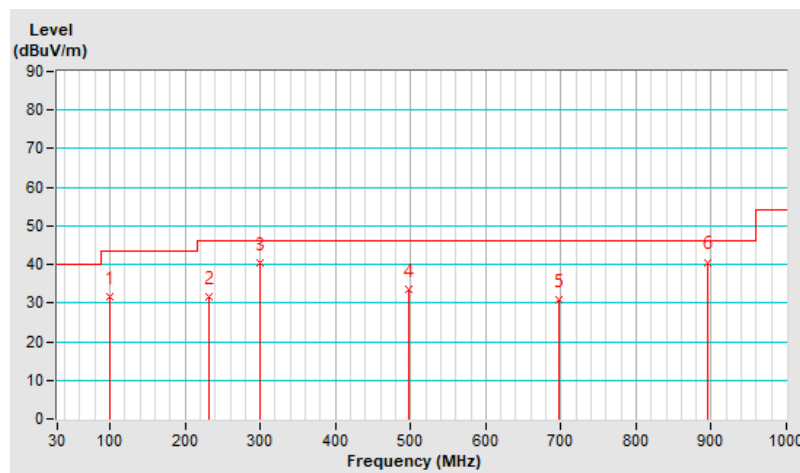
1TX

RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	20°C, 66% RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.20	31.7 QP	43.5	-11.8	1.00 H	295	54.0	-22.3
2	232.60	31.6 QP	46.0	-14.4	1.00 H	270	51.6	-20.0
3	299.40	40.3 QP	46.0	-5.7	2.00 H	360	57.4	-17.1
4	497.30	33.5 QP	46.0	-12.5	1.50 H	171	45.8	-12.3
5	698.10	30.9 QP	46.0	-15.1	1.00 H	285	39.2	-8.3
6	896.10	40.6 QP	46.0	-5.4	1.00 H	280	46.3	-5.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

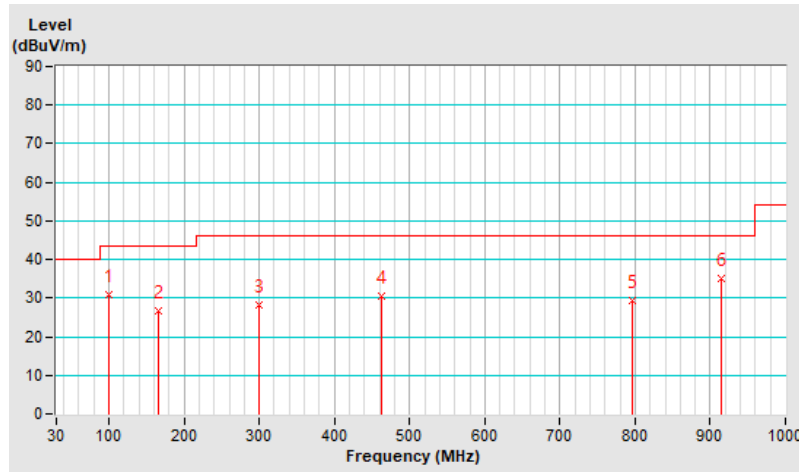


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	20°C, 66% RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.60	31.0 QP	43.5	-12.5	2.00 V	0	53.3	-22.3
2	165.50	26.6 QP	43.5	-16.9	1.00 V	45	44.3	-17.7
3	299.60	28.3 QP	46.0	-17.7	1.50 V	170	45.4	-17.1
4	463.00	30.6 QP	46.0	-15.4	2.00 V	205	43.4	-12.8
5	796.80	29.5 QP	46.0	-16.5	1.00 V	23	36.3	-6.8
6	914.10	35.2 QP	46.0	-10.8	1.50 V	177	40.7	-5.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



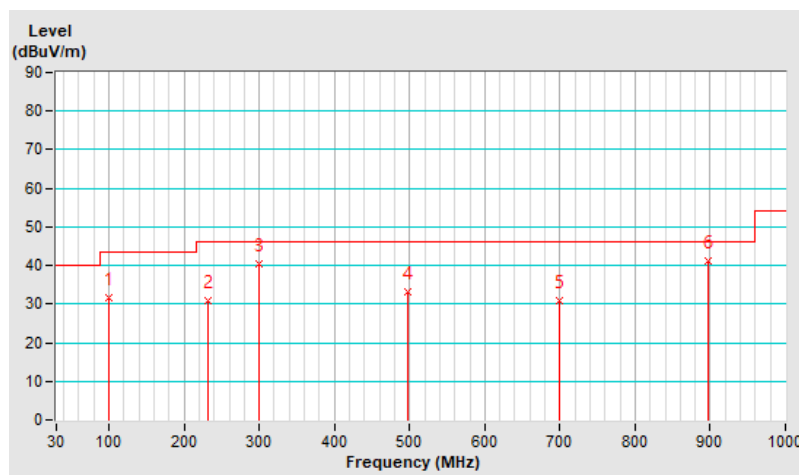
2TX

RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	20°C, 66% RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.60	31.8 QP	43.5	-11.7	3.00 H	269	54.1	-22.3
2	231.90	30.7 QP	46.0	-15.3	1.50 H	269	50.8	-20.1
3	299.60	40.3 QP	46.0	-5.7	1.00 H	360	57.4	-17.1
4	496.80	33.2 QP	46.0	-12.8	2.00 H	162	45.5	-12.3
5	698.60	31.0 QP	46.0	-15.0	1.00 H	273	39.3	-8.3
6	896.80	41.2 QP	46.0	-4.8	2.00 H	297	47.0	-5.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

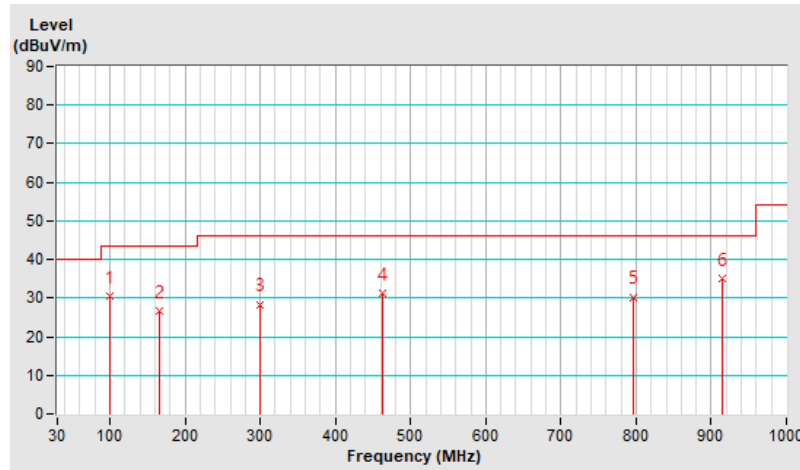


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	20°C, 66% RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.10	30.4 QP	43.5	-13.1	2.00 V	30	52.8	-22.4
2	165.00	26.6 QP	43.5	-16.9	1.50 V	54	44.3	-17.7
3	299.30	28.4 QP	46.0	-17.6	1.50 V	150	45.5	-17.1
4	462.40	31.2 QP	46.0	-14.8	2.00 V	174	44.1	-12.9
5	796.80	30.3 QP	46.0	-15.7	1.00 V	72	37.1	-6.8
6	914.10	35.0 QP	46.0	-11.0	1.50 V	205	40.5	-5.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



Mode C

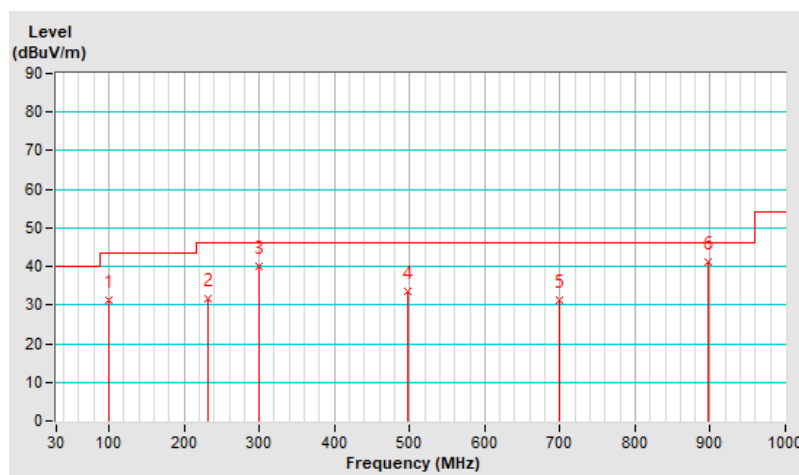
1TX

RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	20°C, 66% RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.20	31.4 QP	43.5	-12.1	1.00 H	291	53.7	-22.3
2	232.30	31.6 QP	46.0	-14.4	2.00 H	281	51.7	-20.1
3	299.10	40.1 QP	46.0	-5.9	2.00 H	355	57.2	-17.1
4	497.40	33.6 QP	46.0	-12.4	1.50 H	187	45.9	-12.3
5	698.90	31.3 QP	46.0	-14.7	1.00 H	267	39.6	-8.3
6	896.60	41.1 QP	46.0	-4.9	1.00 H	276	46.9	-5.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

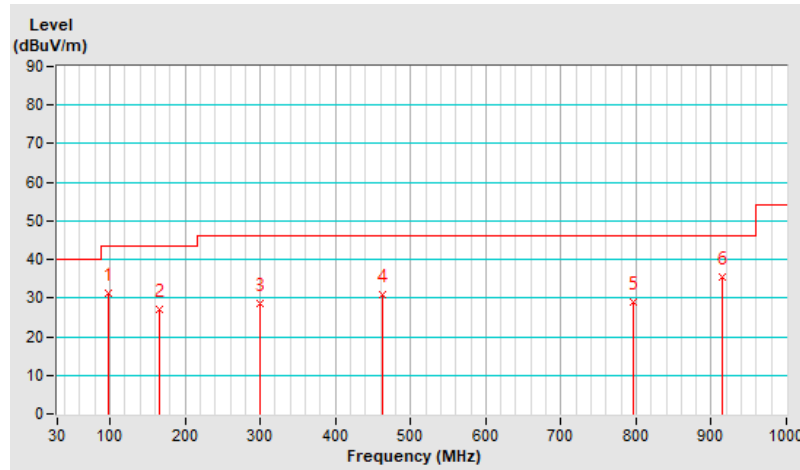


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	20°C, 66% RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	98.80	31.1 QP	43.5	-12.4	2.00 V	17	53.5	-22.4
2	166.20	26.9 QP	43.5	-16.6	1.00 V	39	44.6	-17.7
3	299.80	28.5 QP	46.0	-17.5	1.50 V	178	45.6	-17.1
4	462.50	30.9 QP	46.0	-15.1	2.00 V	224	43.8	-12.9
5	796.60	29.0 QP	46.0	-17.0	1.00 V	47	35.8	-6.8
6	915.10	35.5 QP	46.0	-10.5	1.00 V	184	40.9	-5.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



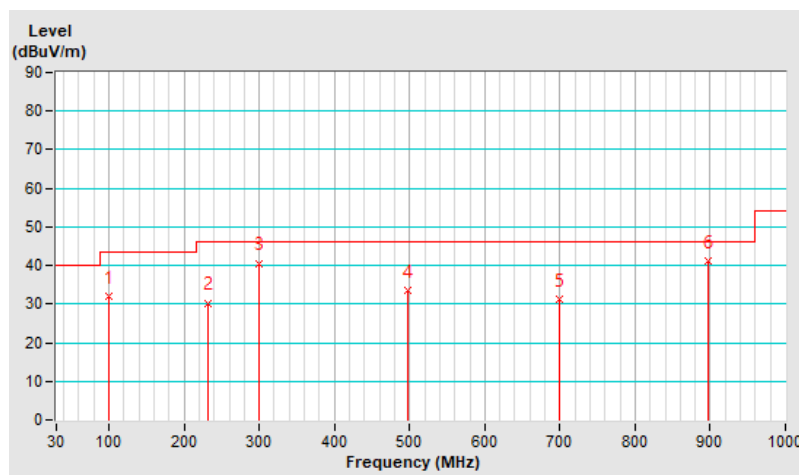
2TX

RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	20°C, 66% RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.70	32.0 QP	43.5	-11.5	1.00 H	270	54.2	-22.2
2	231.40	30.3 QP	46.0	-15.7	1.00 H	272	50.5	-20.2
3	300.20	40.6 QP	46.0	-5.4	3.00 H	355	57.6	-17.0
4	496.90	33.5 QP	46.0	-12.5	2.00 H	148	45.8	-12.3
5	699.10	31.2 QP	46.0	-14.8	1.50 H	264	39.5	-8.3
6	897.00	41.2 QP	46.0	-4.8	1.00 H	307	47.0	-5.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

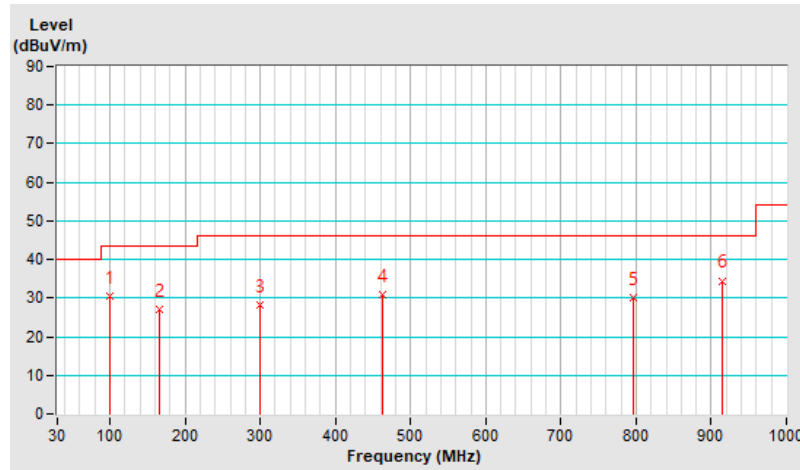


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	20°C, 66% RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	98.90	30.5 QP	43.5	-13.0	2.00 V	43	52.9	-22.4
2	165.30	26.9 QP	43.5	-16.6	1.00 V	39	44.6	-17.7
3	299.00	28.1 QP	46.0	-17.9	1.00 V	164	45.2	-17.1
4	461.90	30.7 QP	46.0	-15.3	1.00 V	175	43.6	-12.9
5	796.70	30.1 QP	46.0	-15.9	1.50 V	60	36.9	-6.8
6	913.70	34.5 QP	46.0	-11.5	1.50 V	191	40.0	-5.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.4 Unwanted Emissions above 1 GHz

Mode A

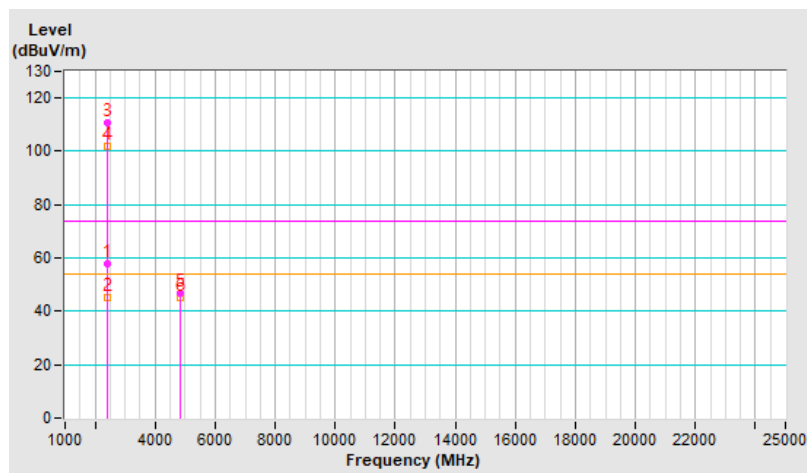
2TX

RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.6 PK	74.0	-16.4	1.22 H	270	61.2	-3.6
2	2390.00	45.4 AV	54.0	-8.6	1.22 H	270	49.0	-3.6
3	*2412.00	110.6 PK			1.22 H	270	114.1	-3.5
4	*2412.00	101.7 AV			1.22 H	270	105.2	-3.5
5	4824.00	47.0 PK	74.0	-27.0	1.52 H	266	45.3	1.7
6	4824.00	45.0 AV	54.0	-9.0	1.52 H	266	43.3	1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

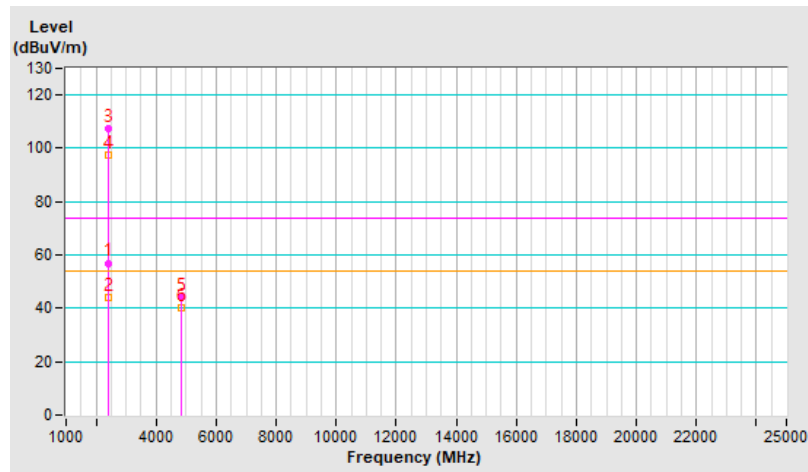


RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.0 PK	74.0	-17.0	1.68 V	151	60.6	-3.6
2	2390.00	44.0 AV	54.0	-10.0	1.68 V	151	47.6	-3.6
3	*2412.00	107.5 PK			1.68 V	151	111.0	-3.5
4	*2412.00	97.5 AV			1.68 V	151	101.0	-3.5
5	4824.00	44.2 PK	74.0	-29.8	2.66 V	337	42.5	1.7
6	4824.00	40.0 AV	54.0	-14.0	2.66 V	337	38.3	1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

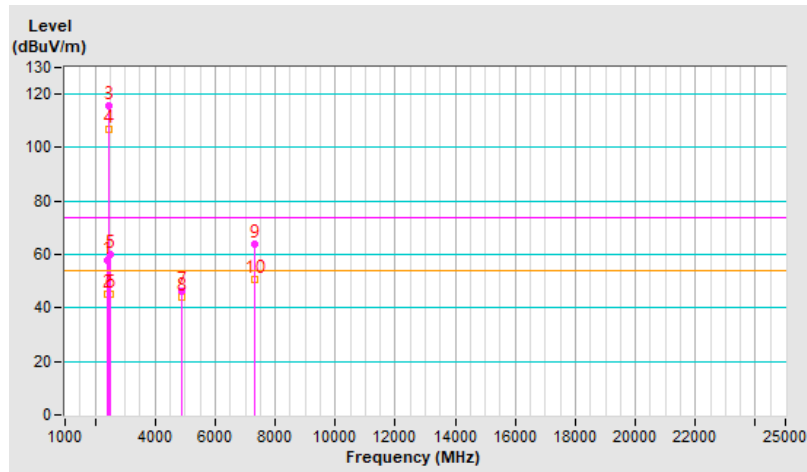


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.8 PK	74.0	-16.2	1.31 H	302	61.4	-3.6
2	2390.00	45.2 AV	54.0	-8.8	1.31 H	302	48.8	-3.6
3	*2437.00	115.6 PK			1.31 H	302	119.1	-3.5
4	*2437.00	106.9 AV			1.31 H	302	110.4	-3.5
5	2483.50	59.9 PK	74.0	-14.1	1.31 H	302	63.3	-3.4
6	2483.50	45.1 AV	54.0	-8.9	1.31 H	302	48.5	-3.4
7	4874.00	46.1 PK	74.0	-27.9	1.64 H	296	44.6	1.5
8	4874.00	43.9 AV	54.0	-10.1	1.64 H	296	42.4	1.5
9	7311.00	63.8 PK	74.0	-10.2	2.60 H	111	56.2	7.6
10	7311.00	50.7 AV	54.0	-3.3	2.60 H	111	43.1	7.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

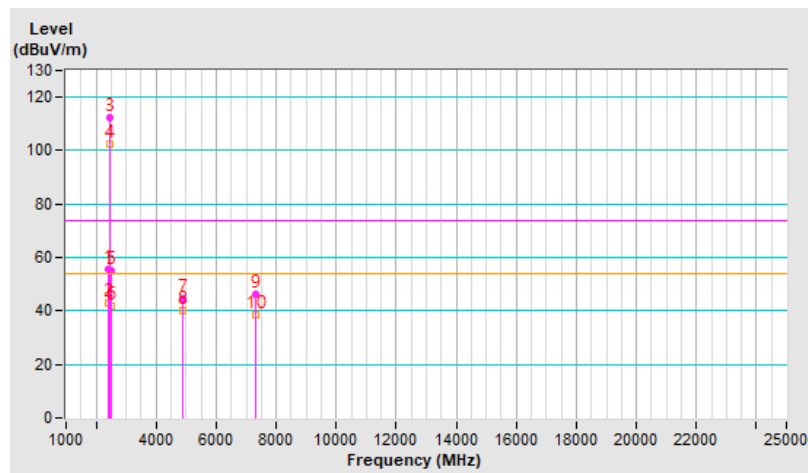


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.8 PK	74.0	-18.2	1.73 V	139	59.4	-3.6
2	2390.00	43.1 AV	54.0	-10.9	1.73 V	139	46.7	-3.6
3	*2437.00	112.1 PK			1.73 V	139	115.6	-3.5
4	*2437.00	102.2 AV			1.73 V	139	105.7	-3.5
5	2483.50	55.3 PK	74.0	-18.7	1.68 V	137	58.7	-3.4
6	2483.50	41.9 AV	54.0	-12.1	1.68 V	137	45.3	-3.4
7	4874.00	44.6 PK	74.0	-29.4	2.61 V	324	43.1	1.5
8	4874.00	40.4 AV	54.0	-13.6	2.61 V	324	38.9	1.5
9	7311.00	46.4 PK	74.0	-27.6	1.01 V	130	38.8	7.6
10	7311.00	38.4 AV	54.0	-15.6	1.01 V	130	30.8	7.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



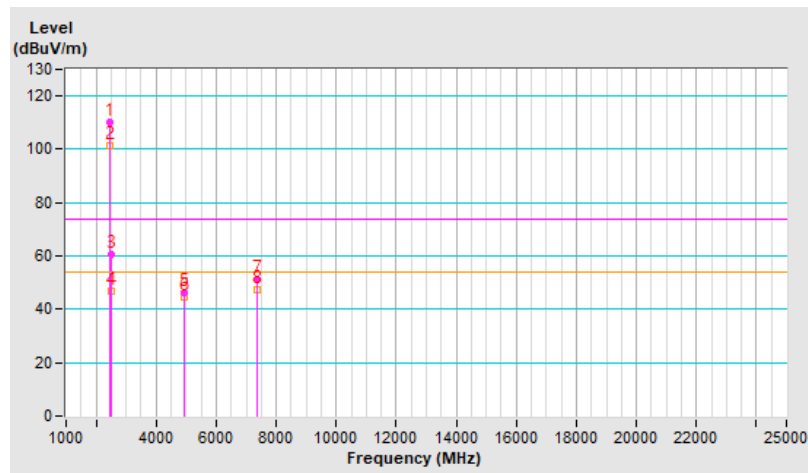


RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	110.3 PK			1.25 H	287	113.8	-3.5
2	*2462.00	101.4 AV			1.25 H	287	104.9	-3.5
3	2483.50	60.5 PK	74.0	-13.5	1.25 H	287	63.9	-3.4
4	2483.50	46.8 AV	54.0	-7.2	1.25 H	287	50.2	-3.4
5	4924.00	46.2 PK	74.0	-27.8	1.68 H	284	44.6	1.6
6	4924.00	44.4 AV	54.0	-9.6	1.68 H	284	42.8	1.6
7	7386.00	51.0 PK	74.0	-23.0	2.56 H	115	43.1	7.9
8	7386.00	47.1 AV	54.0	-6.9	2.56 H	115	39.2	7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

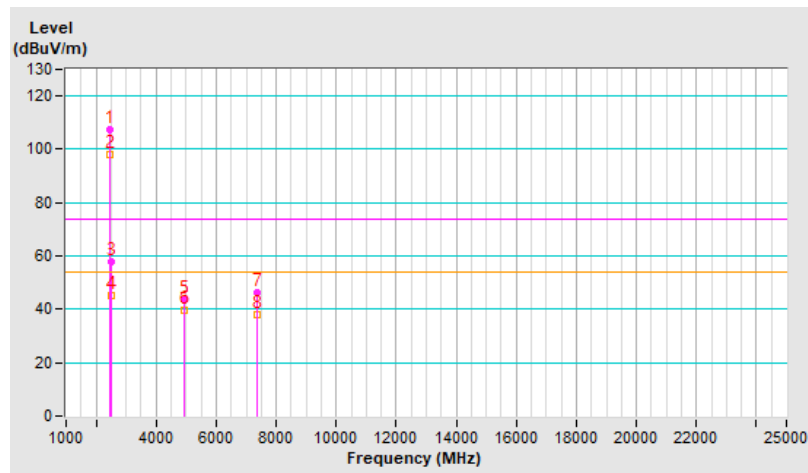


RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	107.4 PK			1.64 V	140	110.9	-3.5
2	*2462.00	97.9 AV			1.64 V	140	101.4	-3.5
3	2483.50	57.8 PK	74.0	-16.2	1.64 V	140	61.2	-3.4
4	2483.50	45.4 AV	54.0	-8.6	1.64 V	140	48.8	-3.4
5	4924.00	43.6 PK	74.0	-30.4	2.59 V	315	42.0	1.6
6	4924.00	39.6 AV	54.0	-14.4	2.59 V	315	38.0	1.6
7	7386.00	46.2 PK	74.0	-27.8	1.00 V	125	38.3	7.9
8	7386.00	38.1 AV	54.0	-15.9	1.00 V	125	30.2	7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

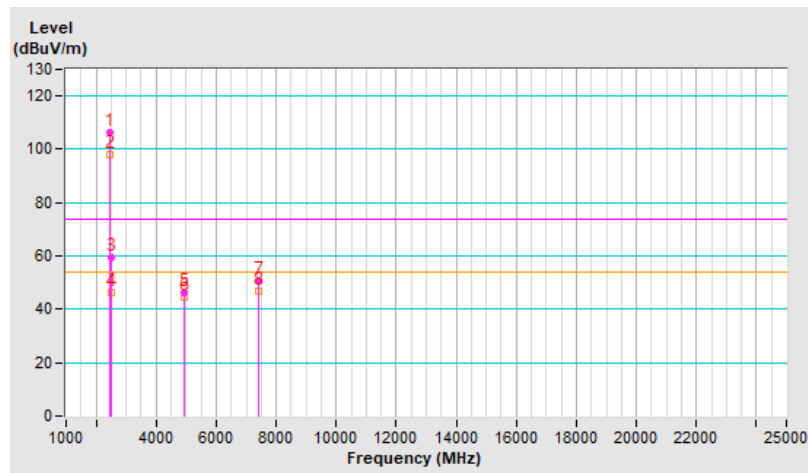


RF Mode	802.11g	Channel	CH 12 : 2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	106.2 PK			1.32 H	306	109.6	-3.4
2	*2467.00	97.8 AV			1.32 H	306	101.2	-3.4
3	2483.50	59.6 PK	74.0	-14.4	1.32 H	306	63.0	-3.4
4	2483.50	46.1 AV	54.0	-7.9	1.32 H	306	49.5	-3.4
5	4934.00	46.4 PK	74.0	-27.6	1.64 H	301	44.8	1.6
6	4934.00	44.5 AV	54.0	-9.5	1.64 H	301	42.9	1.6
7	7401.00	50.6 PK	74.0	-23.4	2.66 H	127	42.7	7.9
8	7401.00	47.0 AV	54.0	-7.0	2.66 H	127	39.1	7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

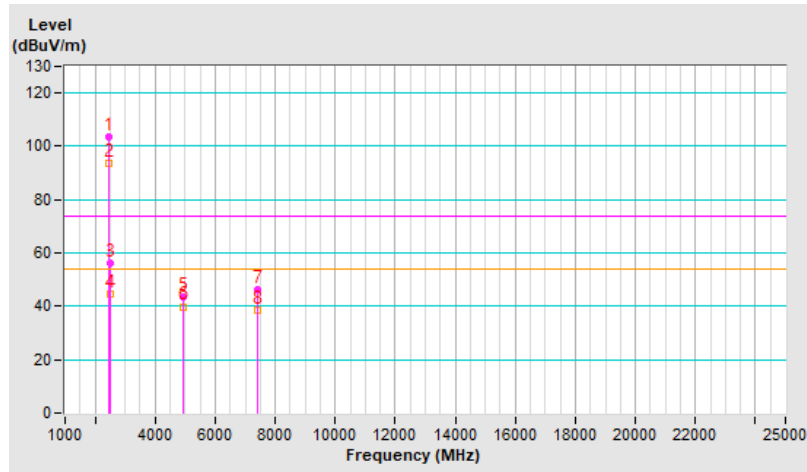


RF Mode	802.11g	Channel	CH 12 : 2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	103.4 PK			1.78 V	152	106.8	-3.4
2	*2467.00	93.8 AV			1.78 V	152	97.2	-3.4
3	2483.50	56.2 PK	74.0	-17.8	1.78 V	152	59.6	-3.4
4	2483.50	44.6 AV	54.0	-9.4	1.78 V	152	48.0	-3.4
5	4934.00	43.7 PK	74.0	-30.3	2.59 V	314	42.1	1.6
6	4934.00	39.9 AV	54.0	-14.1	2.59 V	314	38.3	1.6
7	7401.00	46.5 PK	74.0	-27.5	1.02 V	119	38.6	7.9
8	7401.00	38.6 AV	54.0	-15.4	1.02 V	119	30.7	7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

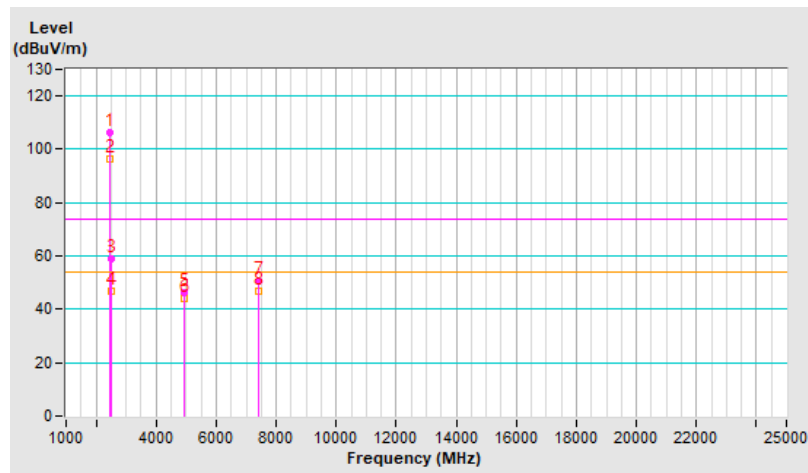


RF Mode	802.11g	Channel	CH 13 : 2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	106.3 PK			1.30 H	314	109.7	-3.4
2	*2472.00	96.5 AV			1.30 H	314	99.9	-3.4
3	2483.50	59.1 PK	74.0	-14.9	1.30 H	314	62.5	-3.4
4	2483.50	46.7 AV	54.0	-7.3	1.30 H	314	50.1	-3.4
5	4944.00	46.0 PK	74.0	-28.0	1.59 H	307	44.4	1.6
6	4944.00	44.1 AV	54.0	-9.9	1.59 H	307	42.5	1.6
7	7416.00	50.8 PK	74.0	-23.2	2.60 H	116	43.0	7.8
8	7416.00	47.0 AV	54.0	-7.0	2.60 H	116	39.2	7.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

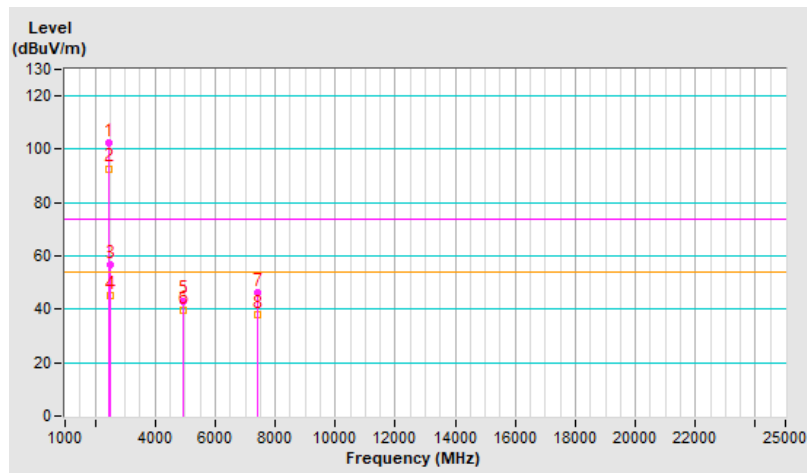


RF Mode	802.11g	Channel	CH 13 : 2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	102.6 PK			1.80 V	155	106.0	-3.4
2	*2472.00	92.8 AV			1.80 V	155	96.2	-3.4
3	2483.50	56.8 PK	74.0	-17.2	1.80 V	155	60.2	-3.4
4	2483.50	45.3 AV	54.0	-8.7	1.80 V	155	48.7	-3.4
5	4944.00	43.2 PK	74.0	-30.8	2.57 V	319	41.6	1.6
6	4944.00	39.5 AV	54.0	-14.5	2.57 V	319	37.9	1.6
7	7416.00	46.1 PK	74.0	-27.9	1.02 V	135	38.3	7.8
8	7416.00	37.8 AV	54.0	-16.2	1.02 V	135	30.0	7.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



Mode B

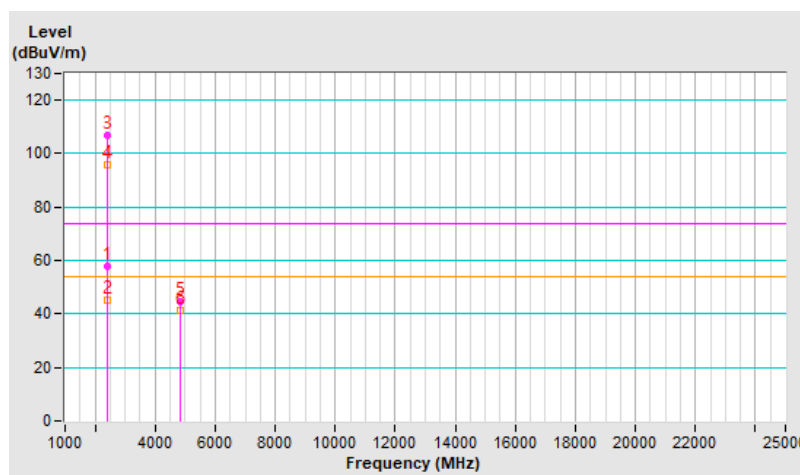
2TX

RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.9 PK	74.0	-16.1	1.24 H	99	61.5	-3.6
2	2390.00	44.9 AV	54.0	-9.1	1.24 H	99	48.5	-3.6
3	*2412.00	106.8 PK			1.24 H	99	110.3	-3.5
4	*2412.00	96.0 AV			1.24 H	99	99.5	-3.5
5	4824.00	44.4 PK	74.0	-29.6	1.00 H	268	42.7	1.7
6	4824.00	41.4 AV	54.0	-12.6	1.00 H	268	39.7	1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

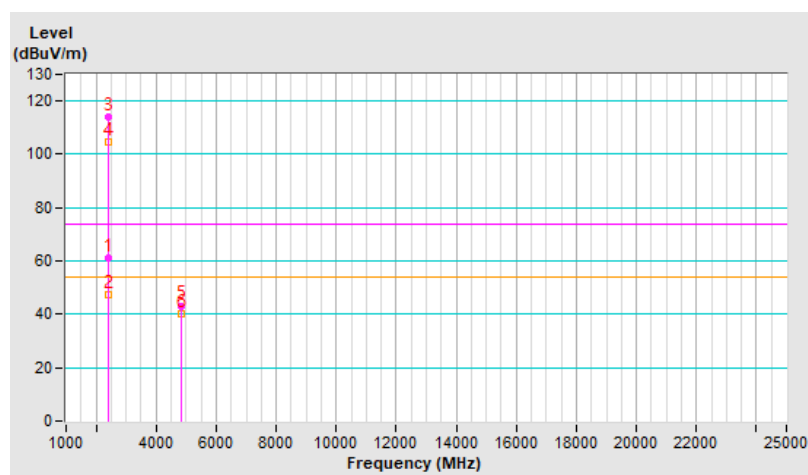


RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	61.0 PK	74.0	-13.0	1.70 V	127	64.6	-3.6
2	2390.00	47.4 AV	54.0	-6.6	1.70 V	127	51.0	-3.6
3	*2412.00	113.8 PK			1.70 V	127	117.3	-3.5
4	*2412.00	104.7 AV			1.70 V	127	108.2	-3.5
5	4824.00	43.2 PK	74.0	-30.8	1.28 V	79	41.5	1.7
6	4824.00	40.4 AV	54.0	-13.6	1.28 V	79	38.7	1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

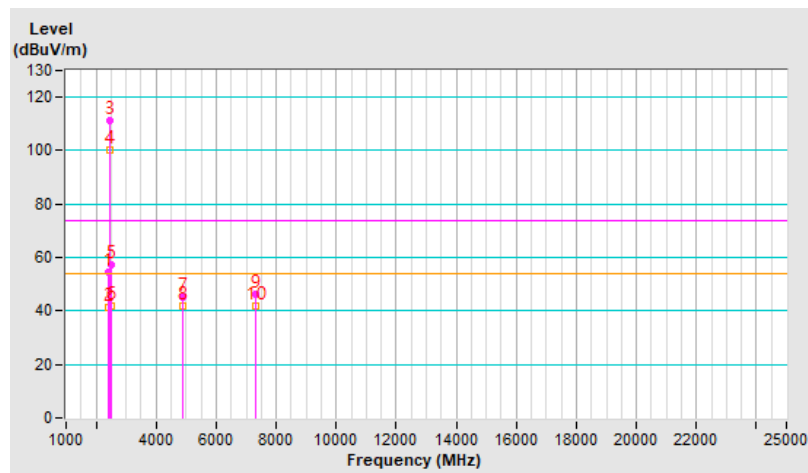


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	54.6 PK	74.0	-19.4	1.21 H	110	58.2	-3.6
2	2390.00	41.3 AV	54.0	-12.7	1.21 H	110	44.9	-3.6
3	*2437.00	111.1 PK			1.21 H	110	114.6	-3.5
4	*2437.00	100.4 AV			1.21 H	110	103.9	-3.5
5	2483.50	57.5 PK	74.0	-16.5	1.21 H	110	60.9	-3.4
6	2483.50	41.8 AV	54.0	-12.2	1.21 H	110	45.2	-3.4
7	4874.00	44.9 PK	74.0	-29.1	1.00 H	258	43.4	1.5
8	4874.00	42.0 AV	54.0	-12.0	1.00 H	258	40.5	1.5
9	7311.00	46.4 PK	74.0	-27.6	1.49 H	274	38.8	7.6
10	7311.00	41.8 AV	54.0	-12.2	1.49 H	274	34.2	7.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

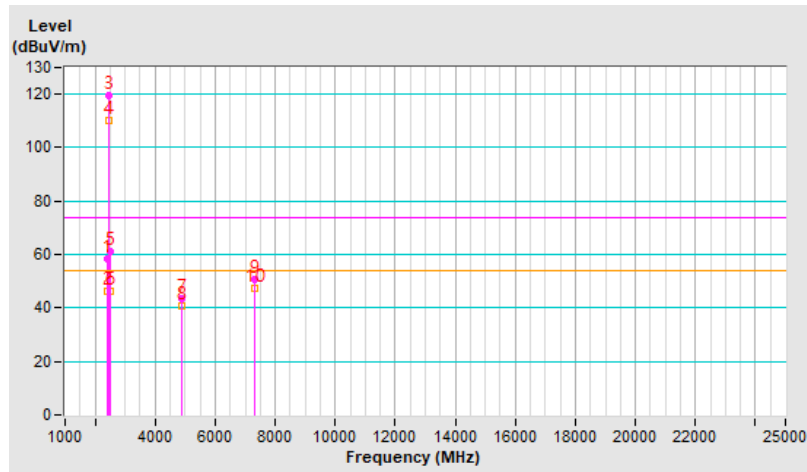


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.3 PK	74.0	-15.7	1.49 V	133	61.9	-3.6
2	2390.00	46.4 AV	54.0	-7.6	1.49 V	133	50.0	-3.6
3	*2437.00	119.4 PK			1.49 V	133	122.9	-3.5
4	*2437.00	110.4 AV			1.49 V	133	113.9	-3.5
5	2483.50	61.2 PK	74.0	-12.8	1.49 V	133	64.6	-3.4
6	2483.50	46.3 AV	54.0	-7.7	1.49 V	133	49.7	-3.4
7	4874.00	43.5 PK	74.0	-30.5	1.28 V	74	42.0	1.5
8	4874.00	40.9 AV	54.0	-13.1	1.28 V	74	39.4	1.5
9	7311.00	50.8 PK	74.0	-23.2	2.66 V	98	43.2	7.6
10	7311.00	47.2 AV	54.0	-6.8	2.66 V	98	39.6	7.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

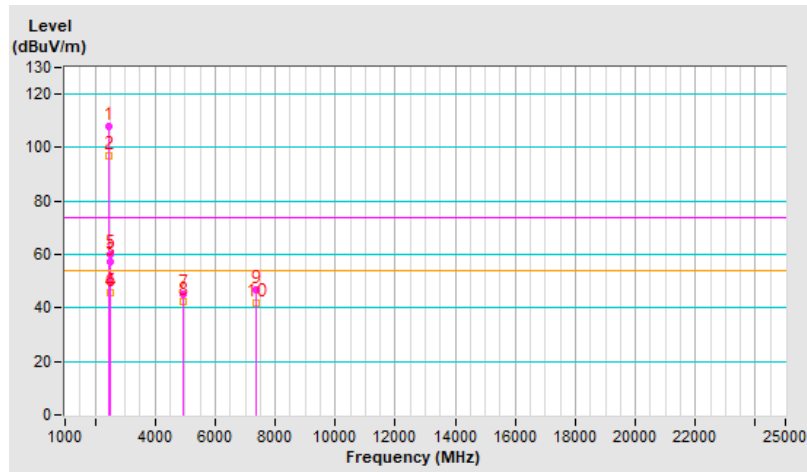


RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	108.0 PK			1.56 H	103	111.5	-3.5
2	*2462.00	97.0 AV			1.56 H	103	100.5	-3.5
3	2483.50	57.3 PK	74.0	-16.7	1.56 H	103	60.7	-3.4
4	2483.50	45.7 AV	54.0	-8.3	1.56 H	103	49.1	-3.4
5	2484.30	60.1 PK	74.0	-13.9	1.56 H	103	63.5	-3.4
6	2484.30	45.5 AV	54.0	-8.5	1.56 H	103	48.9	-3.4
7	4924.00	45.1 PK	74.0	-28.9	1.05 H	249	43.5	1.6
8	4924.00	42.2 AV	54.0	-11.8	1.05 H	249	40.6	1.6
9	7386.00	47.0 PK	74.0	-27.0	1.48 H	283	39.1	7.9
10	7386.00	41.7 AV	54.0	-12.3	1.48 H	283	33.8	7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

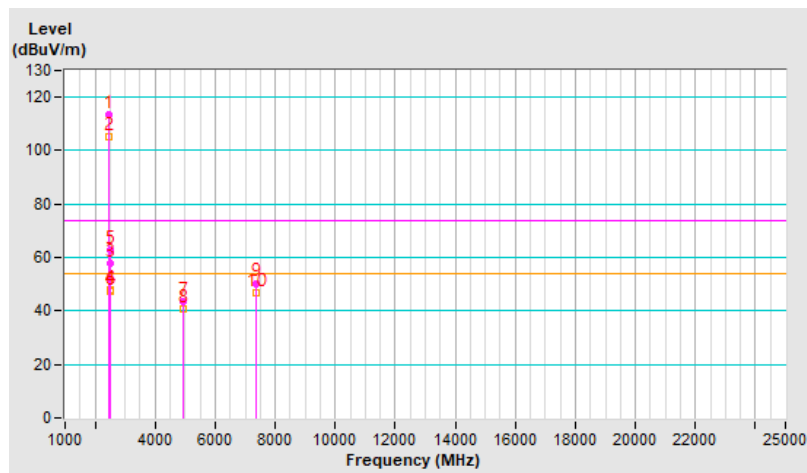


RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	113.7 PK			1.64 V	117	117.2	-3.5
2	*2462.00	105.1 AV			1.64 V	117	108.6	-3.5
3	2483.50	58.0 PK	74.0	-16.0	1.64 V	117	61.4	-3.4
4	2483.50	48.0 AV	54.0	-6.0	1.64 V	117	51.4	-3.4
5	2485.30	62.8 PK	74.0	-11.2	1.64 V	117	66.2	-3.4
6	2485.30	47.2 AV	54.0	-6.8	1.64 V	117	50.6	-3.4
7	4924.00	43.6 PK	74.0	-30.4	1.24 V	86	42.0	1.6
8	4924.00	40.8 AV	54.0	-13.2	1.24 V	86	39.2	1.6
9	7386.00	50.4 PK	74.0	-23.6	2.61 V	88	42.5	7.9
10	7386.00	46.9 AV	54.0	-7.1	2.61 V	88	39.0	7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

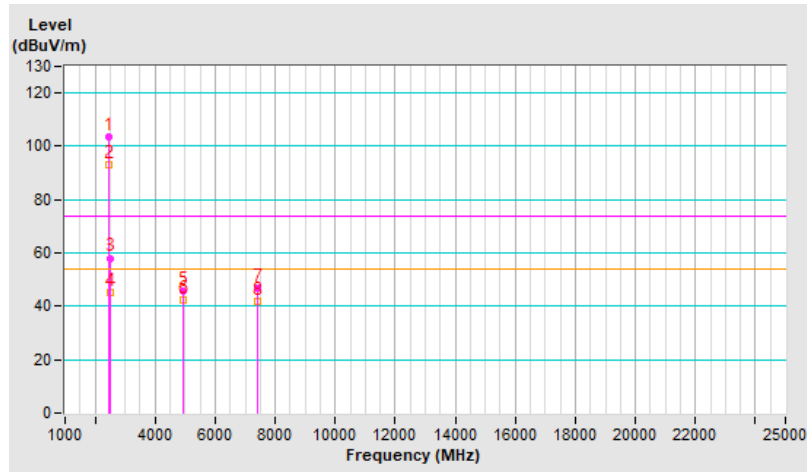


RF Mode	802.11g	Channel	CH 12 : 2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	103.7 PK			1.53 H	116	107.1	-3.4
2	*2467.00	93.1 AV			1.53 H	116	96.5	-3.4
3	2483.50	58.1 PK	74.0	-15.9	1.53 H	116	61.5	-3.4
4	2483.50	45.4 AV	54.0	-8.6	1.53 H	116	48.8	-3.4
5	4934.00	45.6 PK	74.0	-28.4	1.02 H	242	44.0	1.6
6	4934.00	42.6 AV	54.0	-11.4	1.02 H	242	41.0	1.6
7	7401.00	46.9 PK	74.0	-27.1	1.53 H	279	39.0	7.9
8	7401.00	41.8 AV	54.0	-12.2	1.53 H	279	33.9	7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



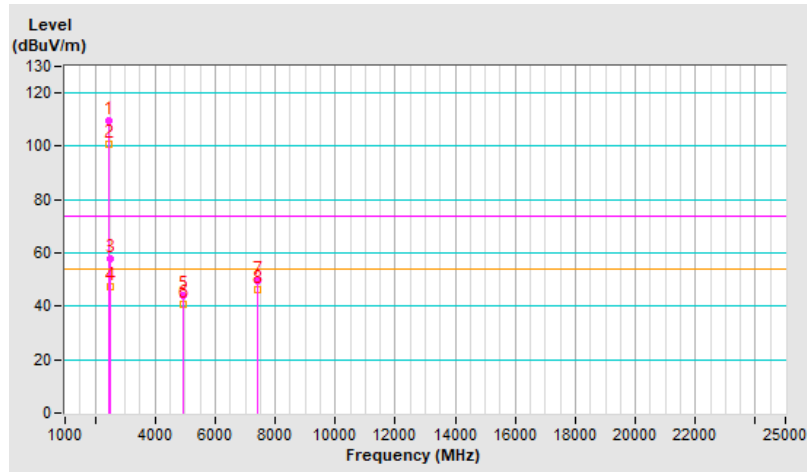


RF Mode	802.11g	Channel	CH 12 : 2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	109.8 PK			1.70 V	119	113.2	-3.4
2	*2467.00	100.7 AV			1.70 V	119	104.1	-3.4
3	2483.50	57.9 PK	74.0	-16.1	1.70 V	119	61.3	-3.4
4	2483.50	47.2 AV	54.0	-6.8	1.70 V	119	50.6	-3.4
5	4934.00	43.8 PK	74.0	-30.2	1.26 V	67	42.2	1.6
6	4934.00	40.9 AV	54.0	-13.1	1.26 V	67	39.3	1.6
7	7401.00	49.7 PK	74.0	-24.3	2.62 V	93	41.8	7.9
8	7401.00	46.3 AV	54.0	-7.7	2.62 V	93	38.4	7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

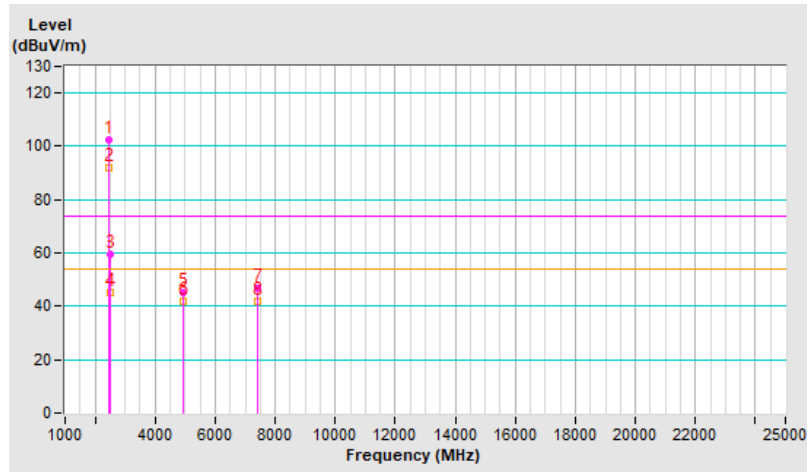


RF Mode	802.11g	Channel	CH 13 : 2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	102.4 PK			1.61 H	99	105.8	-3.4
2	*2472.00	91.9 AV			1.61 H	99	95.3	-3.4
3	2483.50	59.5 PK	74.0	-14.5	1.61 H	99	62.9	-3.4
4	2483.50	45.3 AV	54.0	-8.7	1.61 H	99	48.7	-3.4
5	4944.00	45.0 PK	74.0	-29.0	1.04 H	272	43.4	1.6
6	4944.00	41.9 AV	54.0	-12.1	1.04 H	272	40.3	1.6
7	7416.00	46.9 PK	74.0	-27.1	1.48 H	281	39.1	7.8
8	7416.00	41.8 AV	54.0	-12.2	1.48 H	281	34.0	7.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



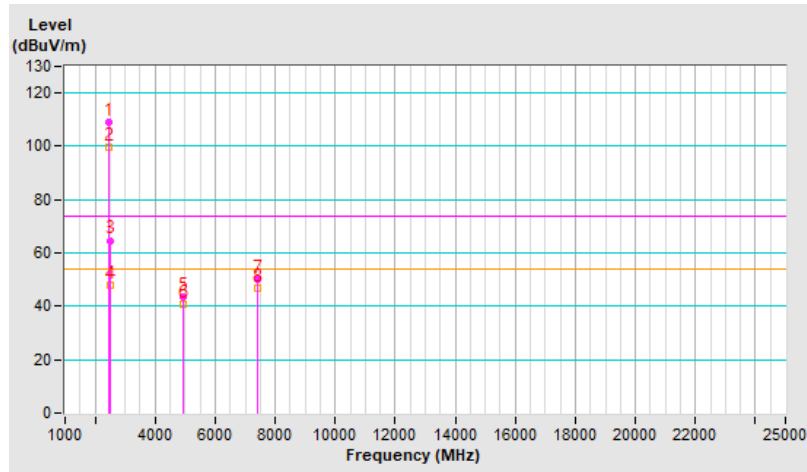


RF Mode	802.11g	Channel	CH 13 : 2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Willy Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	108.9 PK			1.59 V	114	112.3	-3.4
2	*2472.00	99.7 AV			1.59 V	114	103.1	-3.4
3	2483.80	64.7 PK	74.0	-9.3	1.59 V	114	68.1	-3.4
4	2483.80	48.1 AV	54.0	-5.9	1.59 V	114	51.5	-3.4
5	4944.00	43.3 PK	74.0	-30.7	1.30 V	84	41.7	1.6
6	4944.00	40.6 AV	54.0	-13.4	1.30 V	84	39.0	1.6
7	7416.00	50.2 PK	74.0	-23.8	2.67 V	89	42.4	7.8
8	7416.00	46.7 AV	54.0	-7.3	2.67 V	89	38.9	7.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



Mode C

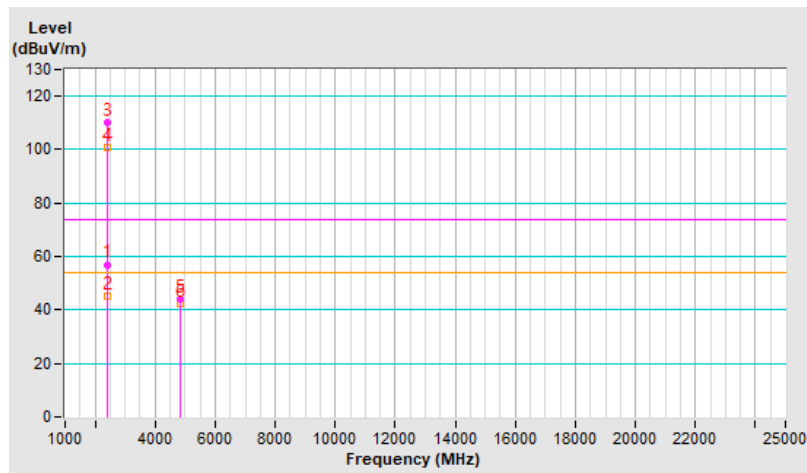
2TX

RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.0 PK	74.0	-17.0	1.49 H	28	60.6	-3.6
2	2390.00	45.2 AV	54.0	-8.8	1.49 H	28	48.8	-3.6
3	*2412.00	110.3 PK			1.49 H	28	113.8	-3.5
4	*2412.00	100.9 AV			1.49 H	28	104.4	-3.5
5	4824.00	44.1 PK	74.0	-29.9	1.75 H	168	42.4	1.7
6	4824.00	42.6 AV	54.0	-11.4	1.75 H	168	40.9	1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

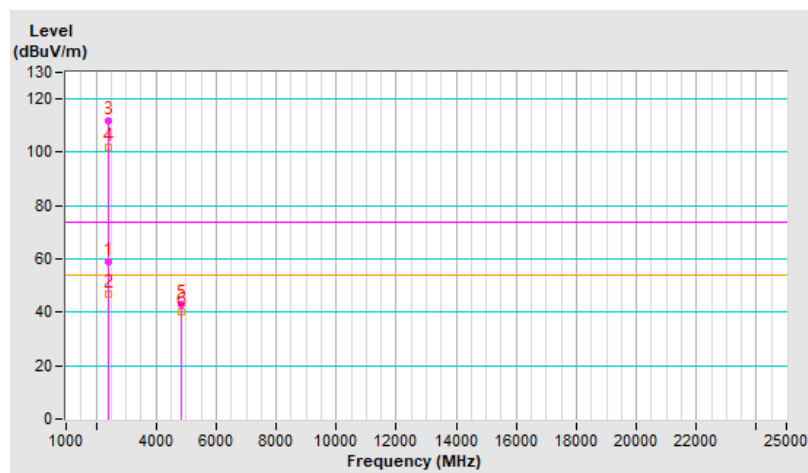


RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.9 PK	74.0	-15.1	1.29 V	5	62.5	-3.6
2	2390.00	47.0 AV	54.0	-7.0	1.29 V	5	50.6	-3.6
3	*2412.00	111.8 PK			1.29 V	5	115.3	-3.5
4	*2412.00	102.1 AV			1.29 V	5	105.6	-3.5
5	4824.00	42.7 PK	74.0	-31.3	1.58 V	136	41.0	1.7
6	4824.00	40.1 AV	54.0	-13.9	1.58 V	136	38.4	1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

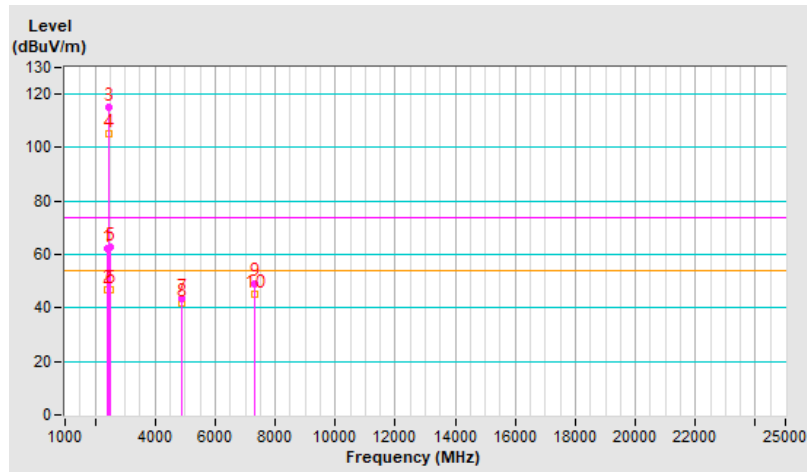


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	62.3 PK	74.0	-11.7	1.54 H	28	65.9	-3.6
2	2390.00	46.9 AV	54.0	-7.1	1.54 H	28	50.5	-3.6
3	*2437.00	115.0 PK			1.54 H	28	118.5	-3.5
4	*2437.00	105.3 AV			1.54 H	28	108.8	-3.5
5	2483.50	62.6 PK	74.0	-11.4	1.54 H	28	66.0	-3.4
6	2483.50	46.7 AV	54.0	-7.3	1.54 H	28	50.1	-3.4
7	4874.00	43.5 PK	74.0	-30.5	1.76 H	207	42.0	1.5
8	4874.00	41.9 AV	54.0	-12.1	1.76 H	207	40.4	1.5
9	7311.00	49.3 PK	74.0	-24.7	3.31 H	124	41.7	7.6
10	7311.00	45.2 AV	54.0	-8.8	3.31 H	124	37.6	7.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

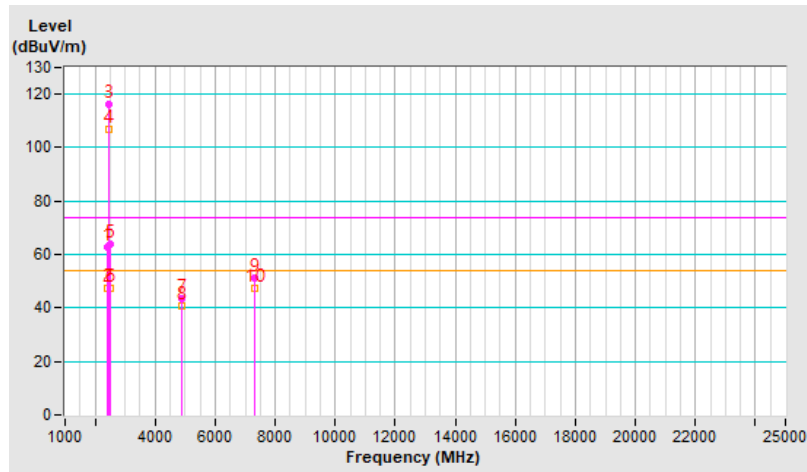


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	63.0 PK	74.0	-11.0	1.28 V	3	66.6	-3.6
2	2390.00	47.4 AV	54.0	-6.6	1.28 V	3	51.0	-3.6
3	*2437.00	116.3 PK			1.28 V	3	119.8	-3.5
4	*2437.00	106.6 AV			1.28 V	3	110.1	-3.5
5	2483.50	64.1 PK	74.0	-9.9	1.28 V	3	67.5	-3.4
6	2483.50	47.2 AV	54.0	-6.8	1.28 V	3	50.6	-3.4
7	4874.00	43.3 PK	74.0	-30.7	1.57 V	124	41.8	1.5
8	4874.00	40.6 AV	54.0	-13.4	1.57 V	124	39.1	1.5
9	7311.00	51.1 PK	74.0	-22.9	1.94 V	200	43.5	7.6
10	7311.00	47.4 AV	54.0	-6.6	1.94 V	200	39.8	7.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

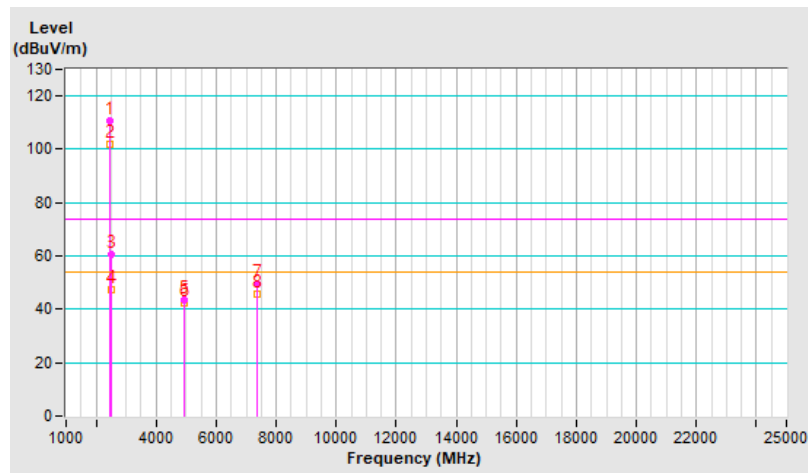


RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	110.8 PK			1.57 H	14	114.3	-3.5
2	*2462.00	101.7 AV			1.57 H	14	105.2	-3.5
3	2485.50	60.8 PK	74.0	-13.2	1.57 H	14	64.2	-3.4
4	2485.50	47.4 AV	54.0	-6.6	1.57 H	14	50.8	-3.4
5	4924.00	43.5 PK	74.0	-30.5	1.72 H	191	41.9	1.6
6	4924.00	42.4 AV	54.0	-11.6	1.72 H	191	40.8	1.6
7	7386.00	49.7 PK	74.0	-24.3	3.28 H	135	41.8	7.9
8	7386.00	45.5 AV	54.0	-8.5	3.28 H	135	37.6	7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



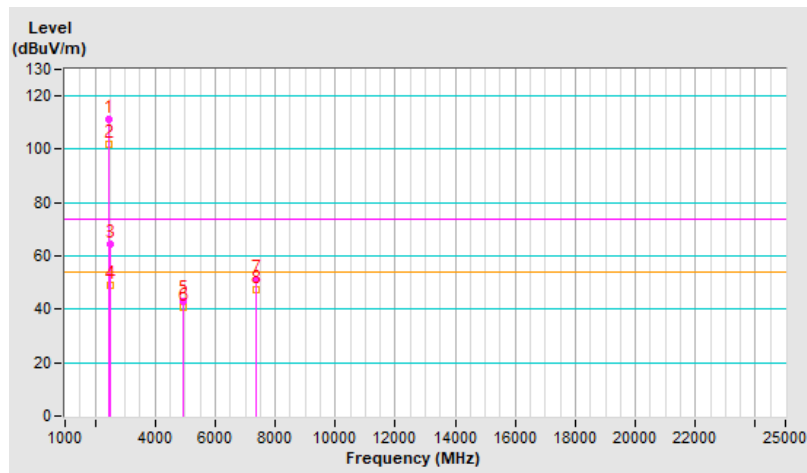


RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	111.5 PK			1.27 V	12	115.0	-3.5
2	*2462.00	102.0 AV			1.27 V	12	105.5	-3.5
3	2483.50	64.2 PK	74.0	-9.8	1.27 V	12	67.6	-3.4
4	2483.50	49.2 AV	54.0	-4.8	1.27 V	12	52.6	-3.4
5	4924.00	43.2 PK	74.0	-30.8	1.61 V	140	41.6	1.6
6	4924.00	40.6 AV	54.0	-13.4	1.61 V	140	39.0	1.6
7	7386.00	51.0 PK	74.0	-23.0	1.91 V	214	43.1	7.9
8	7386.00	47.4 AV	54.0	-6.6	1.91 V	214	39.5	7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

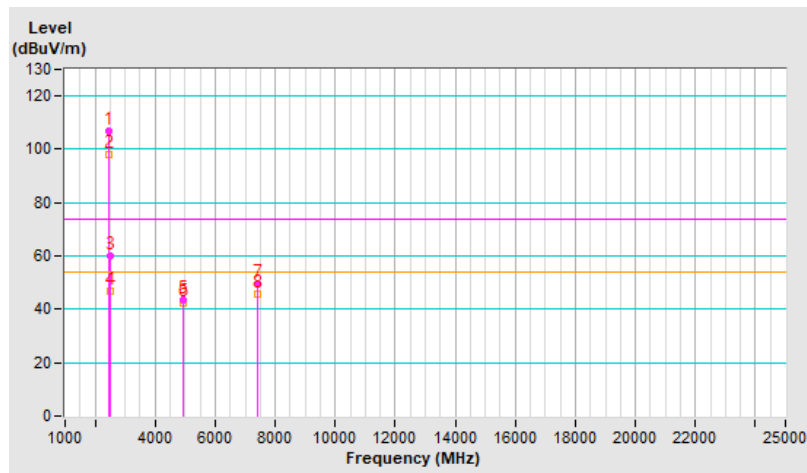


RF Mode	802.11g	Channel	CH 12 : 2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	107.0 PK			1.50 H	20	110.4	-3.4
2	*2467.00	98.0 AV			1.50 H	20	101.4	-3.4
3	2483.50	60.2 PK	74.0	-13.8	1.50 H	20	63.6	-3.4
4	2483.50	47.0 AV	54.0	-7.0	1.50 H	20	50.4	-3.4
5	4934.00	43.7 PK	74.0	-30.3	1.82 H	203	42.1	1.6
6	4934.00	42.5 AV	54.0	-11.5	1.82 H	203	40.9	1.6
7	7401.00	49.7 PK	74.0	-24.3	3.32 H	128	41.8	7.9
8	7401.00	45.5 AV	54.0	-8.5	3.32 H	128	37.6	7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



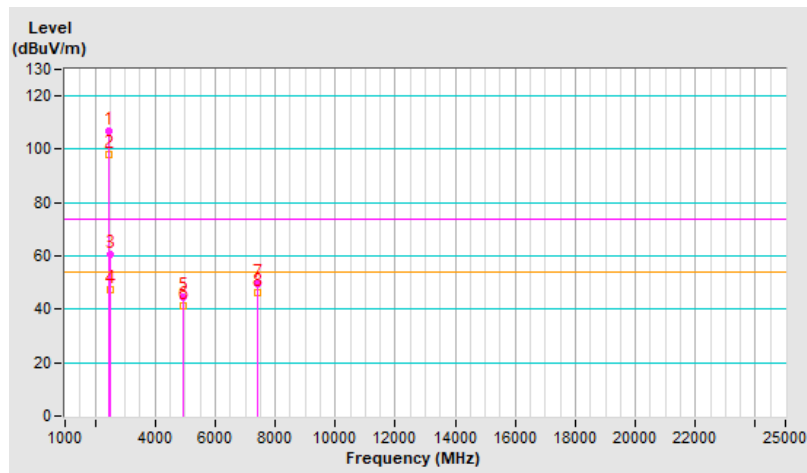


RF Mode	802.11g	Channel	CH 12 : 2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	106.7 PK			1.24 V	40	110.1	-3.4
2	*2467.00	98.0 AV			1.24 V	40	101.4	-3.4
3	2483.50	60.4 PK	74.0	-13.6	1.24 V	40	63.8	-3.4
4	2483.50	47.3 AV	54.0	-6.7	1.24 V	40	50.7	-3.4
5	4934.00	44.5 PK	74.0	-29.5	1.52 V	131	42.9	1.6
6	4934.00	41.2 AV	54.0	-12.8	1.52 V	131	39.6	1.6
7	7401.00	49.8 PK	74.0	-24.2	1.91 V	243	41.9	7.9
8	7401.00	46.3 AV	54.0	-7.7	1.91 V	243	38.4	7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

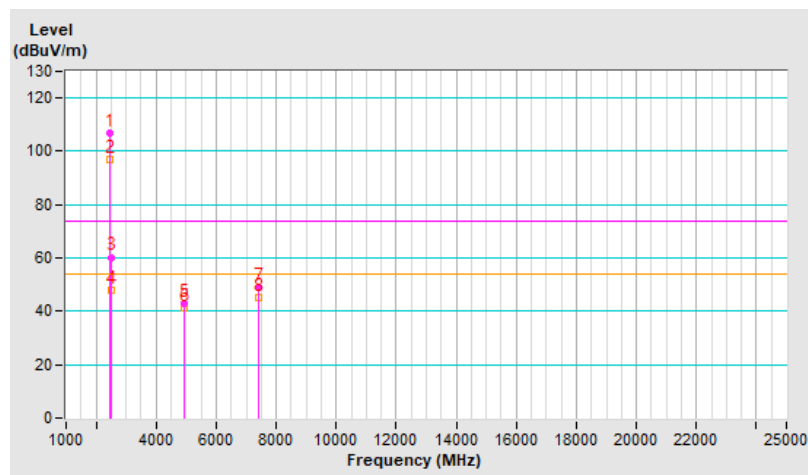


RF Mode	802.11g	Channel	CH 13 : 2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	106.6 PK			1.58 H	40	110.0	-3.4
2	*2472.00	97.0 AV			1.58 H	40	100.4	-3.4
3	2483.50	60.3 PK	74.0	-13.7	1.58 H	40	63.7	-3.4
4	2483.50	47.7 AV	54.0	-6.3	1.58 H	40	51.1	-3.4
5	4944.00	43.0 PK	74.0	-31.0	1.79 H	210	41.4	1.6
6	4944.00	41.5 AV	54.0	-12.5	1.79 H	210	39.9	1.6
7	7416.00	49.1 PK	74.0	-24.9	3.37 H	116	41.3	7.8
8	7416.00	44.9 AV	54.0	-9.1	3.37 H	116	37.1	7.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

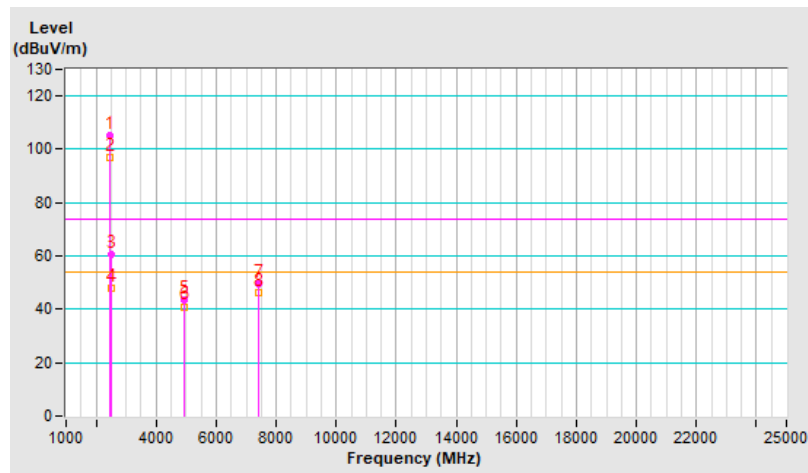


RF Mode	802.11g	Channel	CH 13 : 2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 66 % RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	105.1 PK			1.27 V	24	108.5	-3.4
2	*2472.00	96.7 AV			1.27 V	24	100.1	-3.4
3	2483.50	60.6 PK	74.0	-13.4	1.27 V	24	64.0	-3.4
4	2483.50	47.8 AV	54.0	-6.2	1.27 V	24	51.2	-3.4
5	4944.00	43.5 PK	74.0	-30.5	1.51 V	130	41.9	1.6
6	4944.00	41.0 AV	54.0	-13.0	1.51 V	130	39.4	1.6
7	7416.00	49.6 PK	74.0	-24.4	1.88 V	251	41.8	7.8
8	7416.00	46.3 AV	54.0	-7.7	1.88 V	251	38.5	7.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

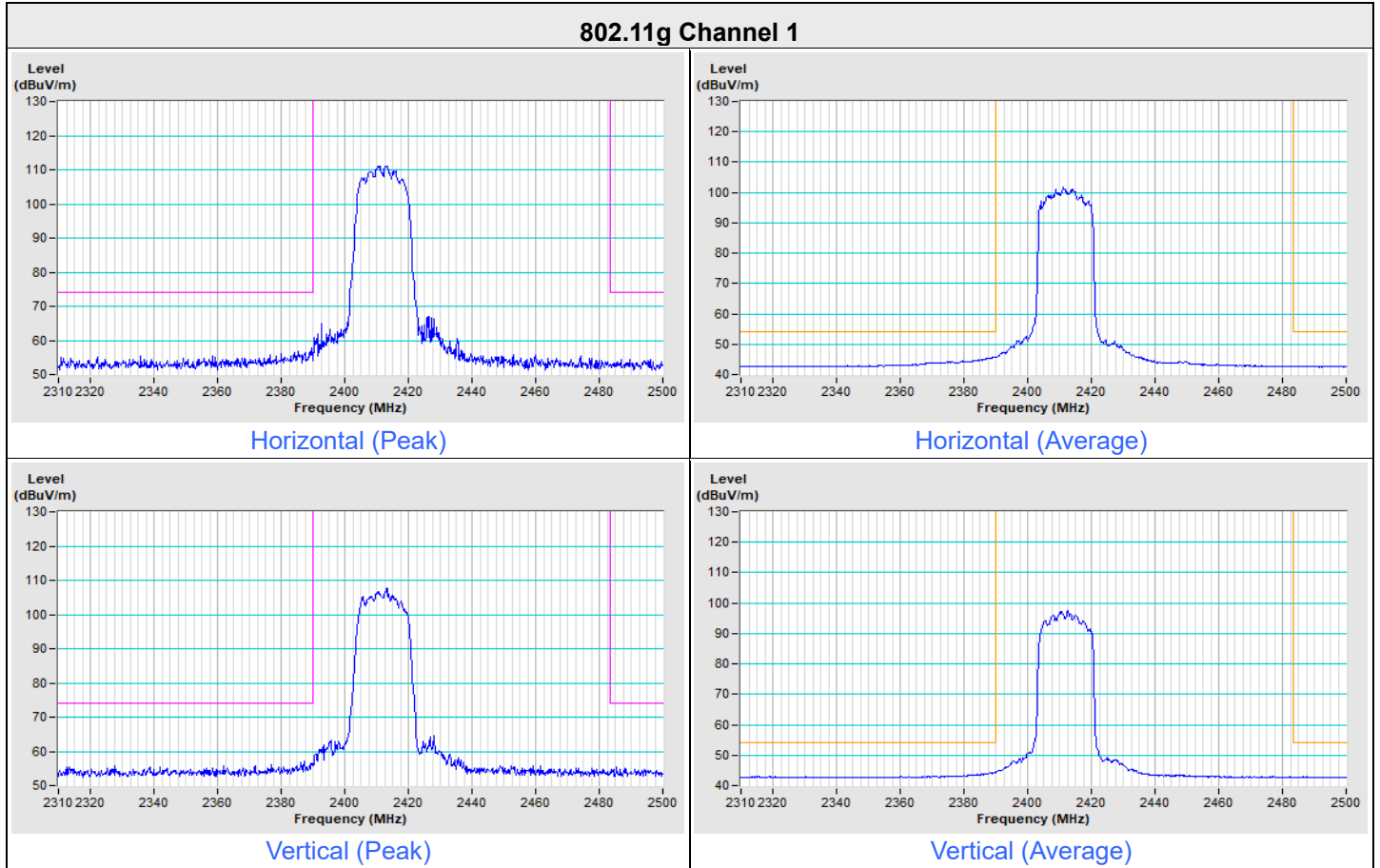


Plot of Band Edge

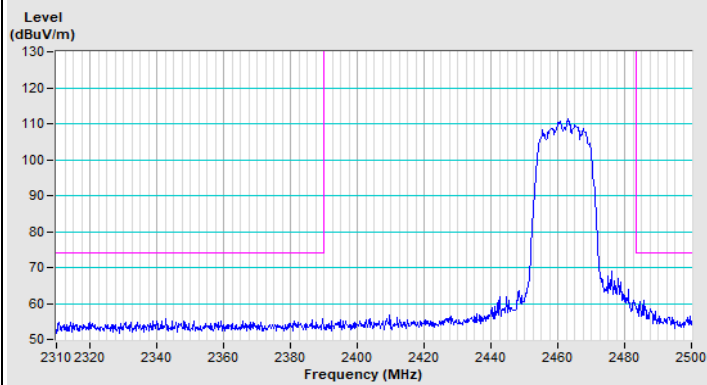
Mode A

2TX

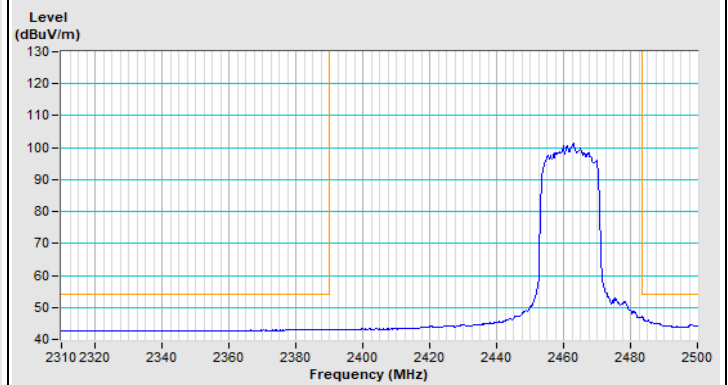
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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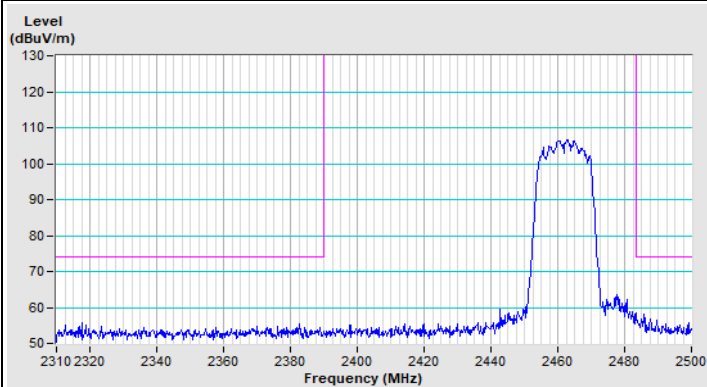
802.11g Channel 11



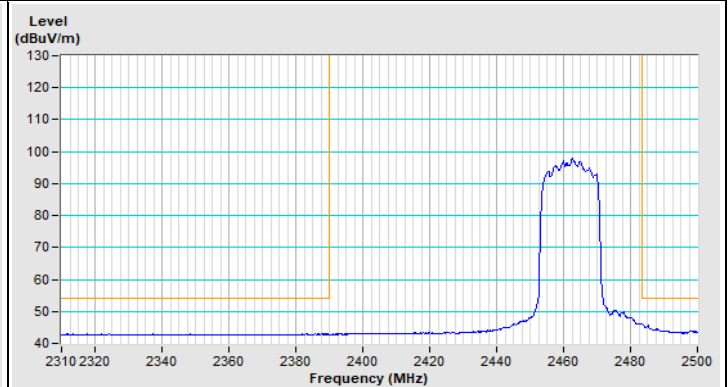
Horizontal (Peak)



Horizontal (Average)

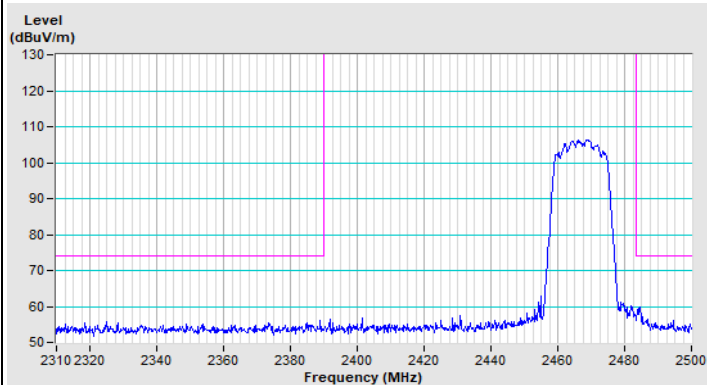


Vertical (Peak)

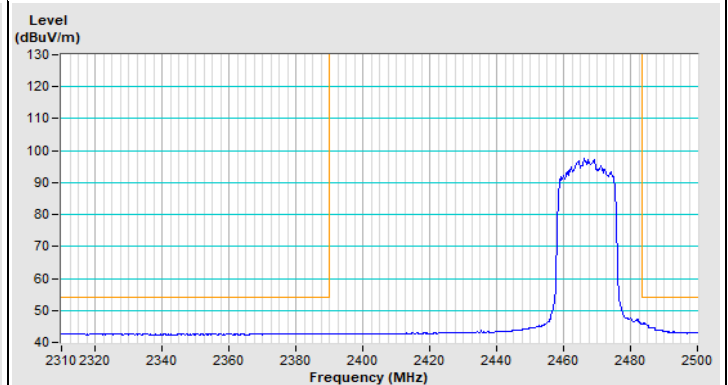


Vertical (Average)

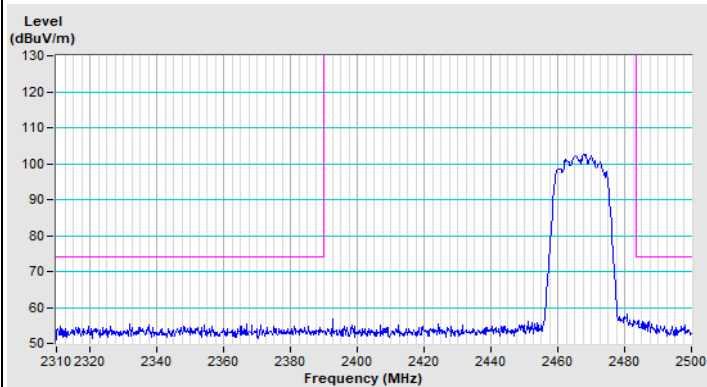
802.11g Channel 12



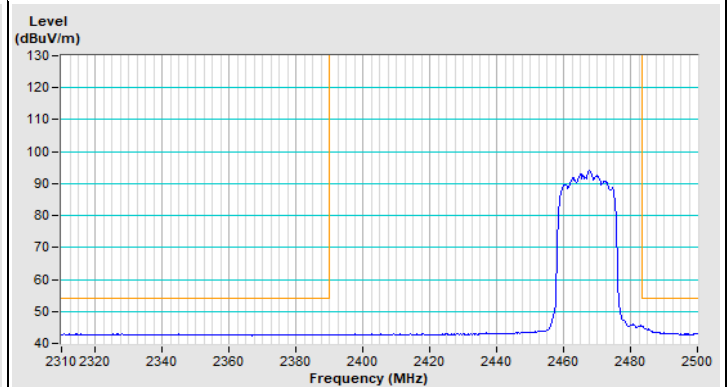
Horizontal (Peak)



Horizontal (Average)

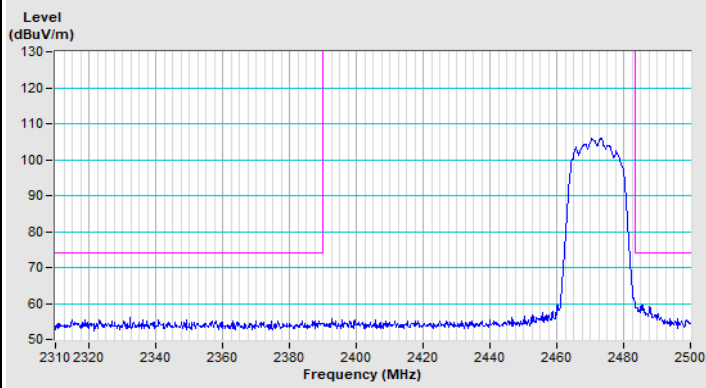


Vertical (Peak)

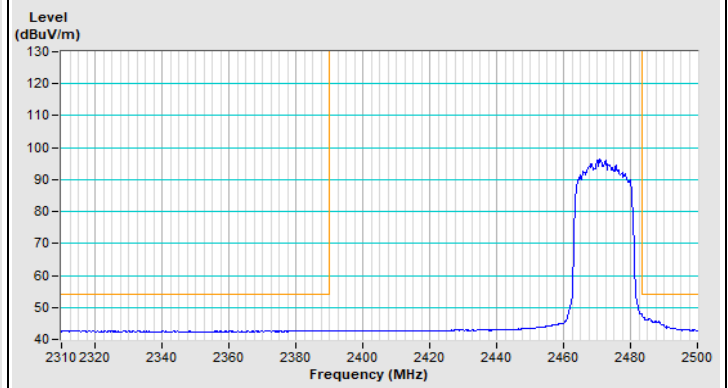


Vertical (Average)

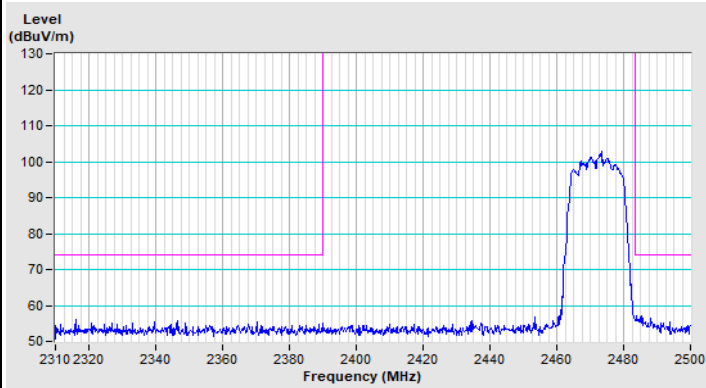
802.11g Channel 13



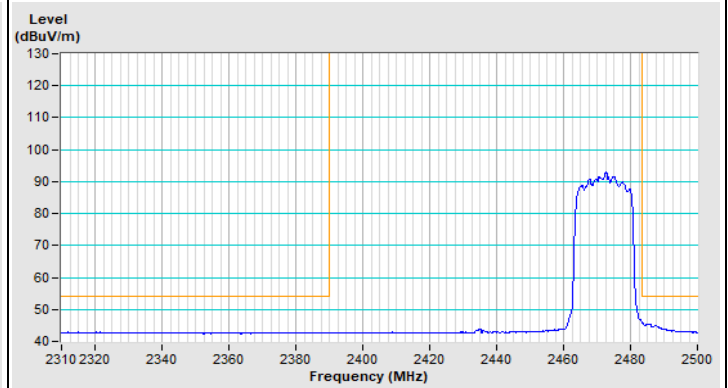
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

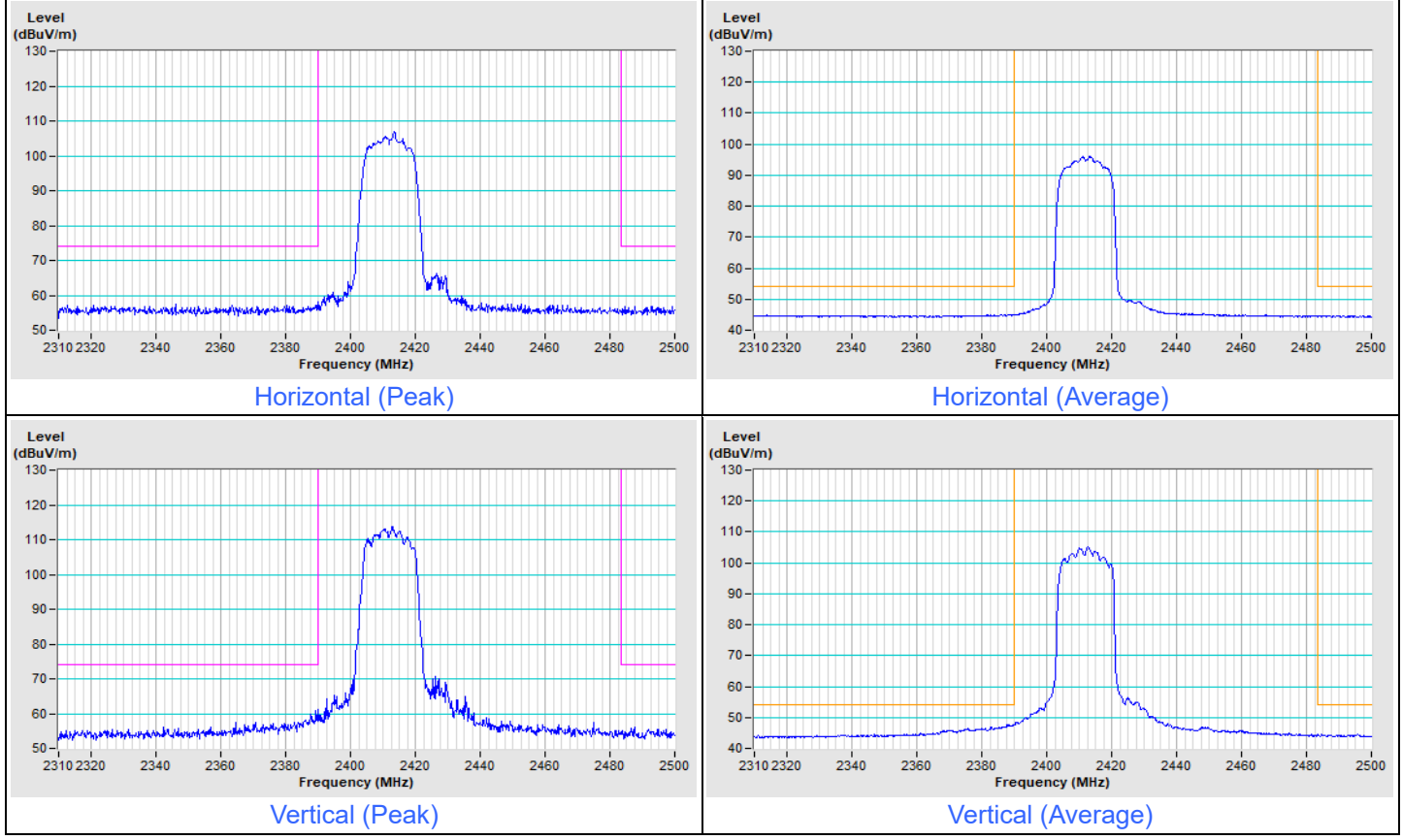


Vertical (Average)

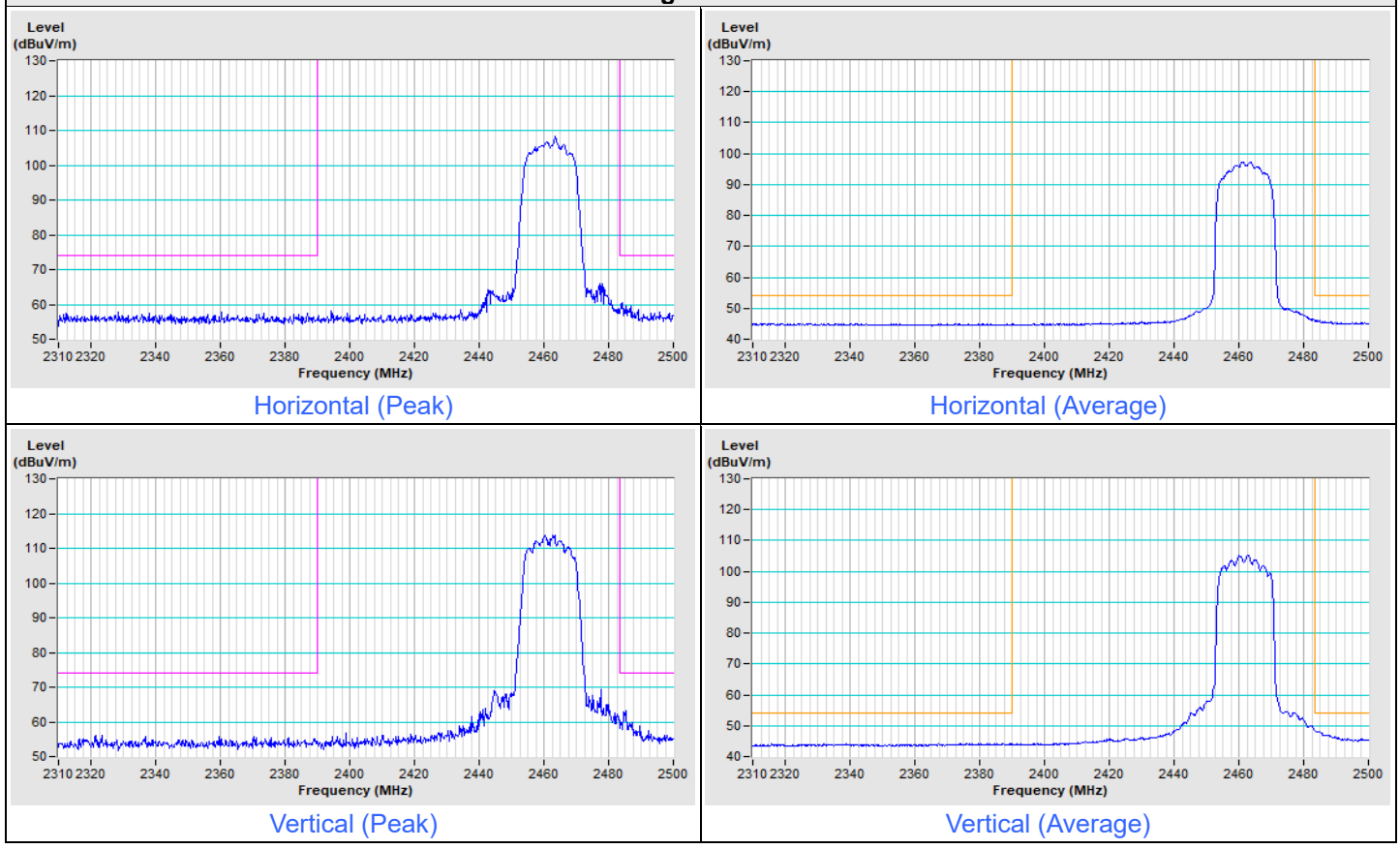
Mode B

2TX

802.11g Channel 1

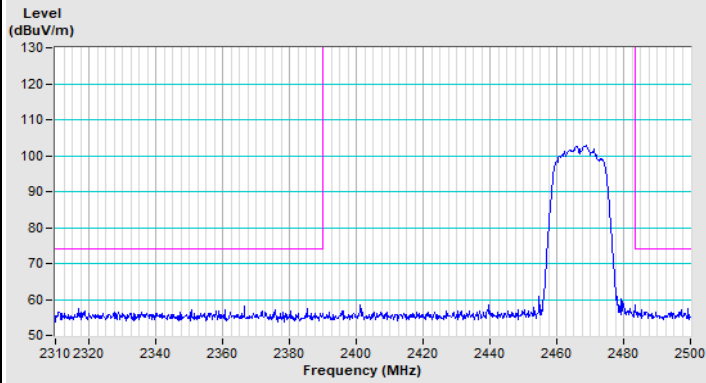


802.11g Channel 11

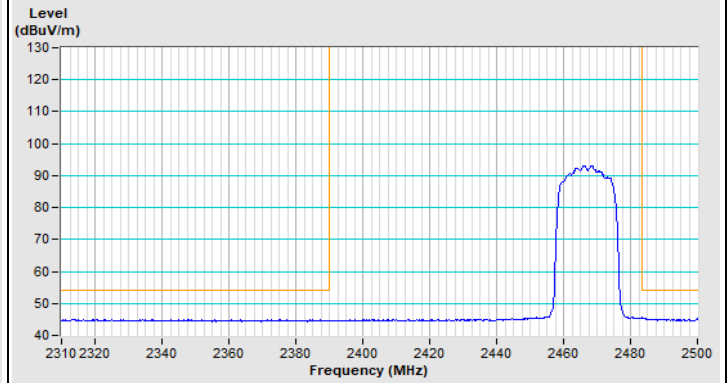




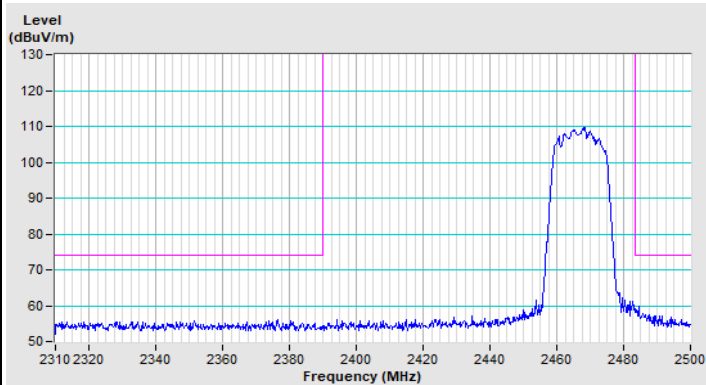
802.11g Channel 12



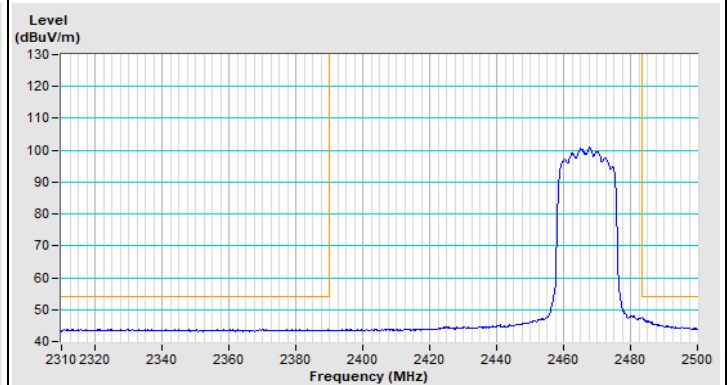
Horizontal (Peak)



Horizontal (Average)

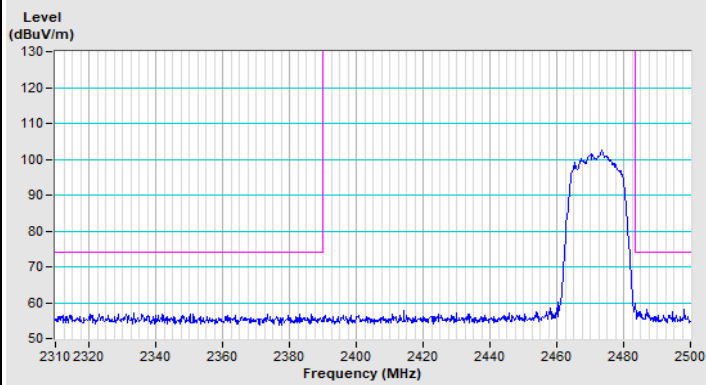


Vertical (Peak)

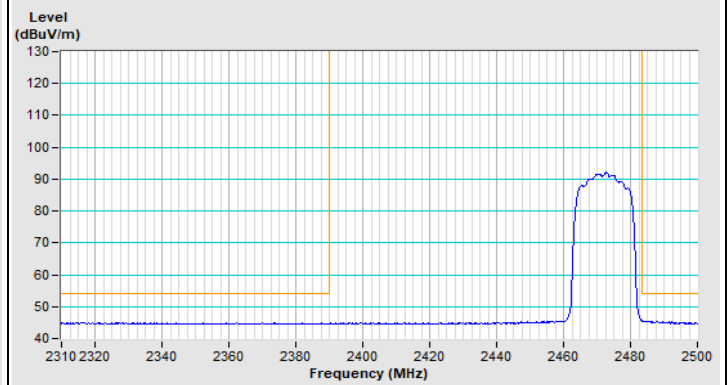


Vertical (Average)

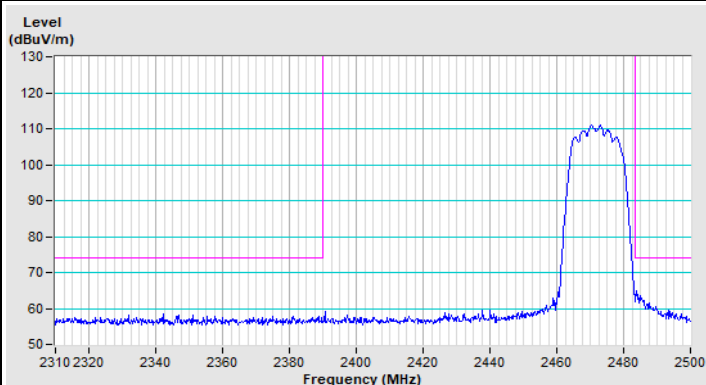
802.11g Channel 13



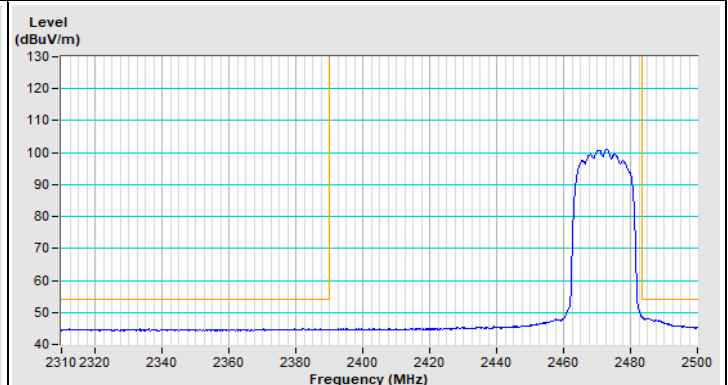
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

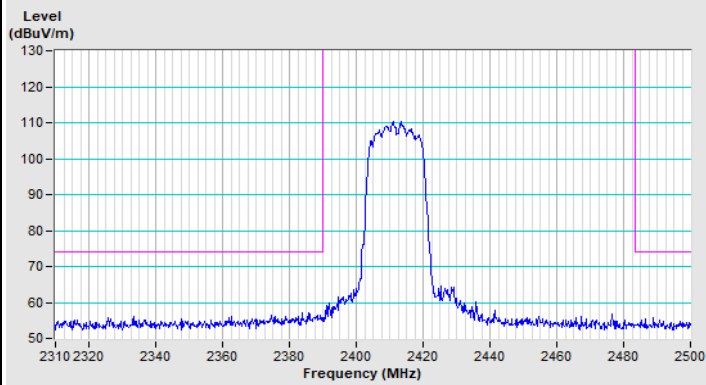


Vertical (Average)

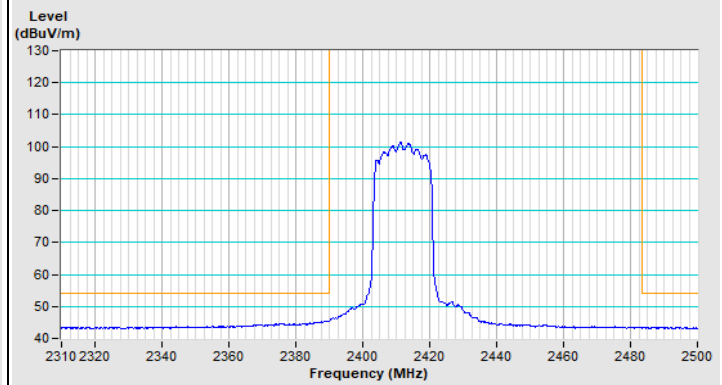
Mode C

2TX

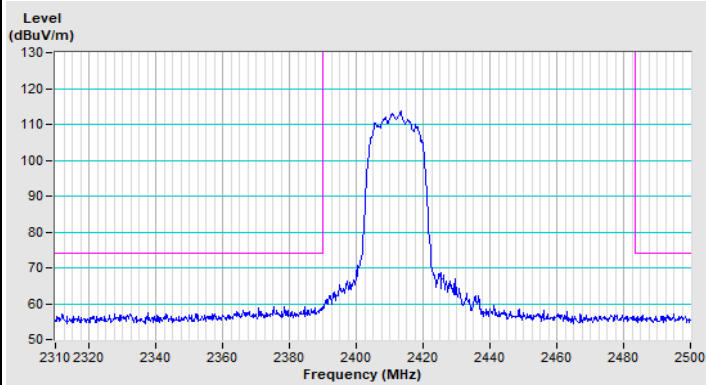
802.11g Channel 1



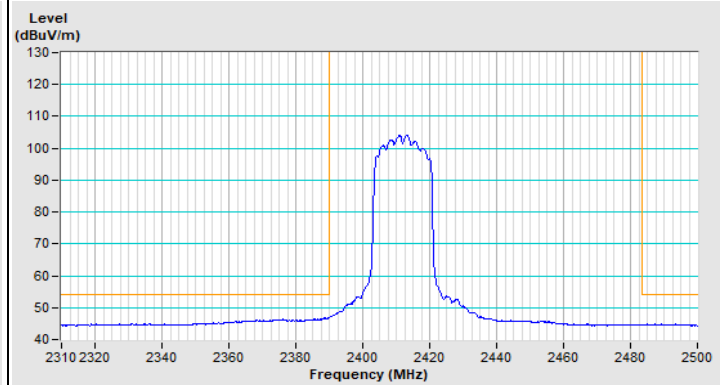
Horizontal (Peak)



Horizontal (Average)

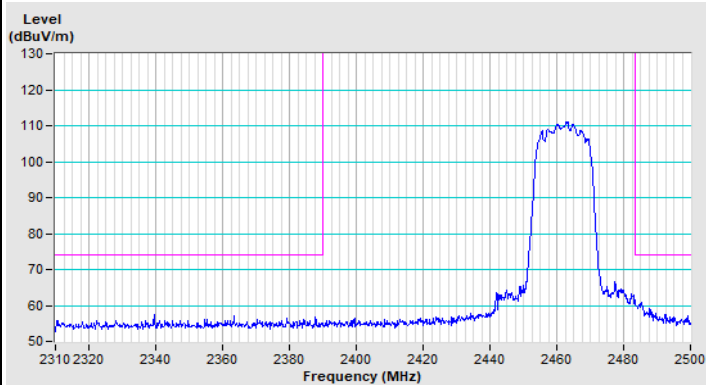


Vertical (Peak)

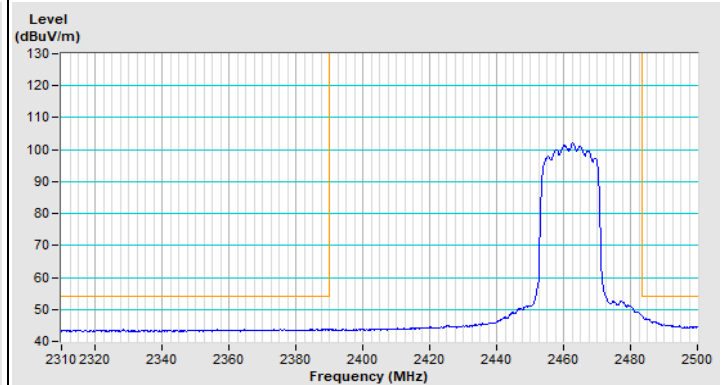


Vertical (Average)

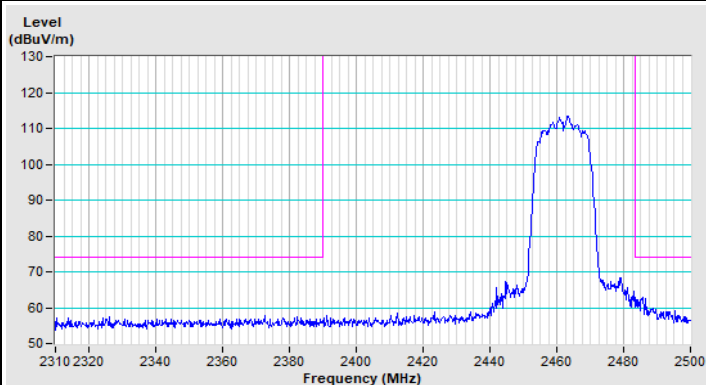
802.11g Channel 11



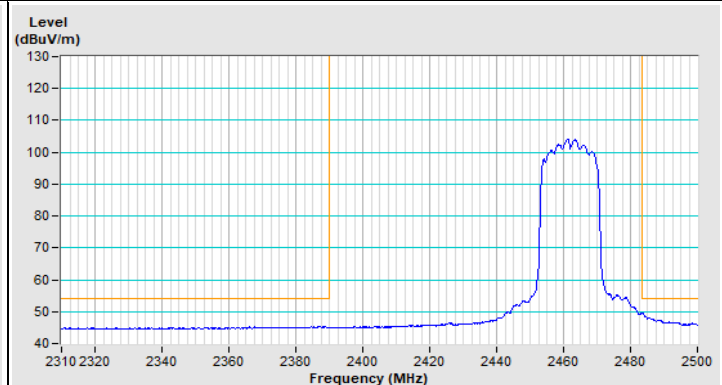
Horizontal (Peak)



Horizontal (Average)



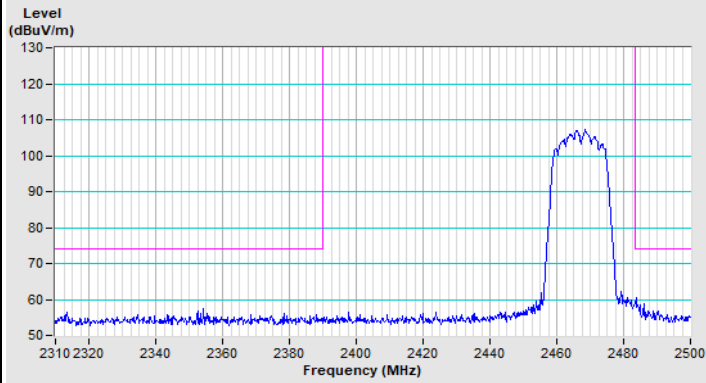
Vertical (Peak)



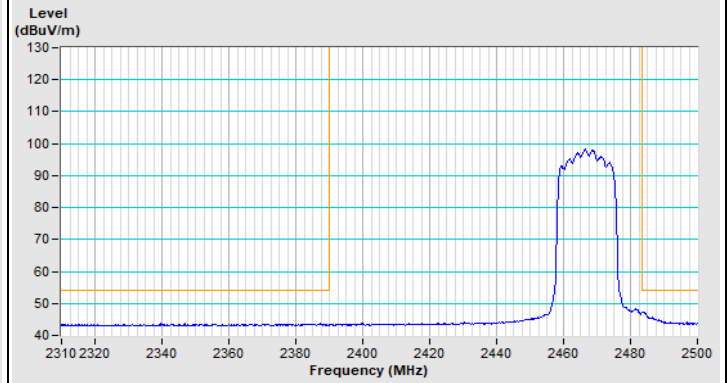
Vertical (Average)



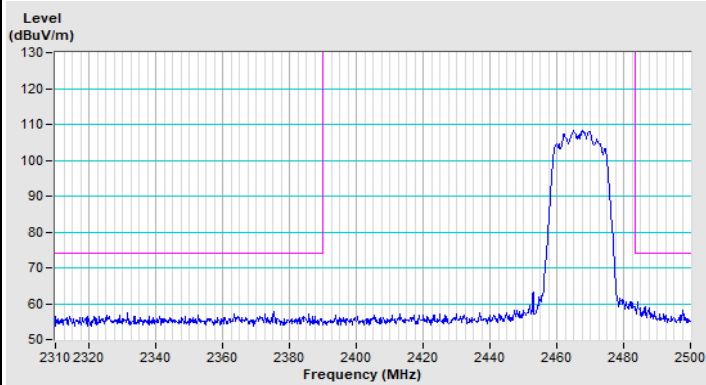
802.11g Channel 12



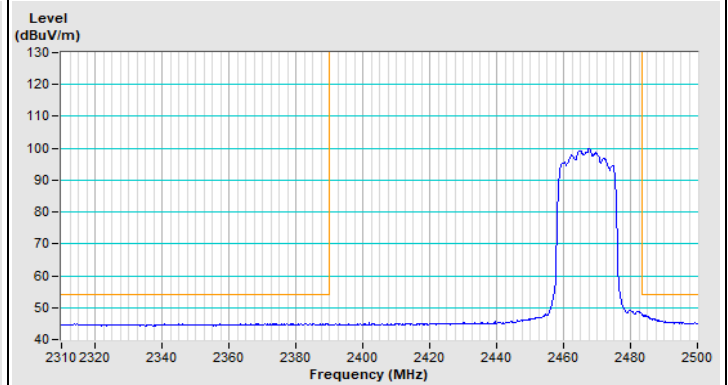
Horizontal (Peak)



Horizontal (Average)

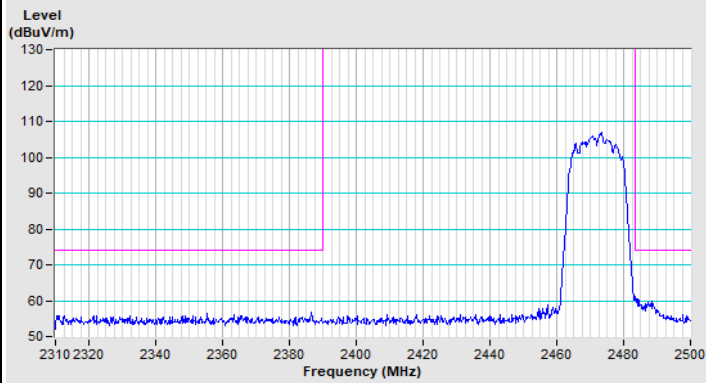


Vertical (Peak)

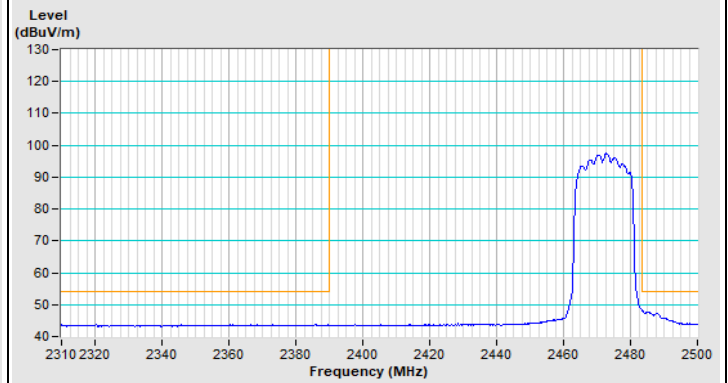


Vertical (Average)

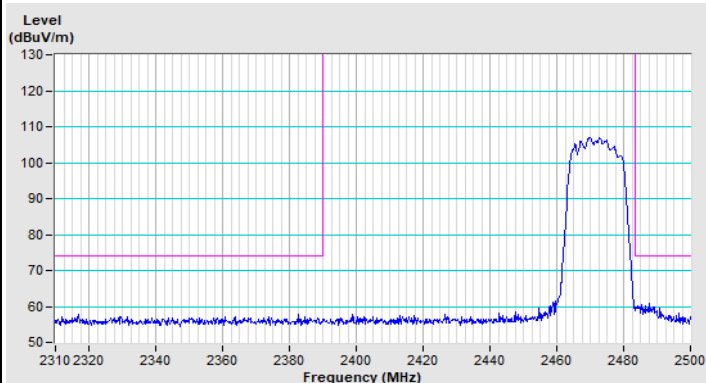
802.11g Channel 13



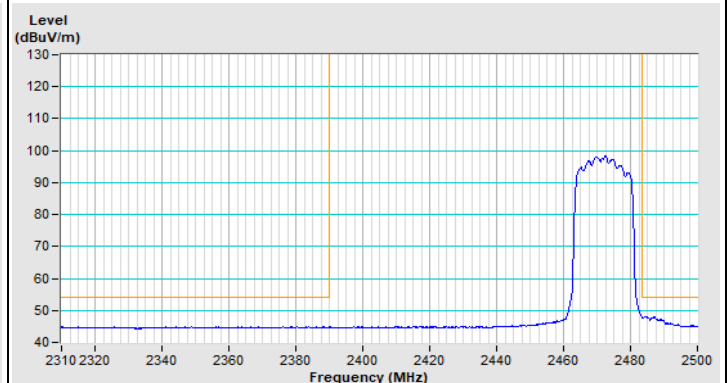
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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