FCC Test Report

Report No.:	RFBEDV-WTW-P21031191-2 R1
FCC ID:	C3K2010
Test Model:	2010
Received Date:	Apr. 06, 2021
Test Date:	Apr. 15, 2021 ~ Jul. 28, 2021
Issued Date:	Aug. 16, 2021
Applicant:	Microsoft Corporation
Address:	One Microsoft Way, Redmond, WA 98052-6399, U.S.A
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location (1):	No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan
Test Location (2):	B2F., No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan
FCC Registration / Designation Number:	788550 / TW0003 427177 / TW0011

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Release Control Record

Issue No.	Description	Date Issued
RFBEDV-WTW-P21031191-2	Original Release	Jul. 29, 2021
RFBEDV-WTW-P21031191-2 R1	1. Revise accessory information in section 3.1 2. Revise section 3.4	Aug. 16, 2021

1 Certificate of Conformity

Product:	Portable Computing Device
Brand:	Microsoft
Test Model:	2010
Sample Status:	Engineering Sample
Applicant:	Microsoft Corporation
Test Date:	Apr. 15, 2021 ~ Jul. 28, 2021
Standards:	47 CFR FCC Part 15, Subpart C (Section 15.247) ANSI C63.10:2013

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.

Prepared by : Vera Huang , **Date:** Aug. 16, 2021

Vera Huang / Specialist

Approved by : , **Date:** Aug. 16, 2021

Dylan Chiou / Senior Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	**Test Item**	**Result**	**Remarks**
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -19.01 dB at 0.16600 MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.5 dB at 2483.5 MHz & 2390 MHz.
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	Pass	Reference only
15.247(b)	Conducted power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

Note: 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	**Frequency**	**Expanded Uncertainty (k=2) (±)**
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.79 dB
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.04 dB
	30 MHz ~ 200 MHz	2.0153 dB
	200 MHz ~ 1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
	18 GHz ~ 40 GHz	1.1508 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Portable Computing Device
Brand	Microsoft
Test Model	2010
Status of EUT	Engineering Sample
Modulation Type	WCCK, DQPSK, DBPSK for DSSS 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps 802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to 400 Mbps
Operating Frequency	2412 ~ 2472 MHz
Number of Channel	13 for 802.11b, 802.11g, 802.11n (HT20), 802.11n (VHT20) 9 for 802.11n (HT40), 802.11n (VHT40)
Output Power	**Chain A** 68.391 mW **Chain B** 73.961 mW **MIMO** 140.957 mW
HW Version	EV
SW Version (FVIN)	1.01260.1
Antenna Type	Refer to Note as below
Antenna Connector	N/A
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below

Note:

1. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

Modulation Mode	Tx Function
802.11b	1TX (SISO mode) / 2TX (MIMO mode)
802.11g	1TX (SISO mode) / 2TX (MIMO mode)
802.11n (HT20/VHT20)	1TX (SISO mode) / 2TX (MIMO mode)
802.11n (HT40/VHT40)	1TX (SISO mode) / 2TX (MIMO mode)

* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40 on 802.11n mode. Therefore the investigated worst case is the representative mode in test report. (Final test mode refer section 3.2.1)

2. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter 1	Microsoft	P/N	--
Adapter 2	Microsoft	P/N	--

* After pretesting, the adapter 1 was the worst case and chose for final test.

3. The antenna information is listed as below.

Antenna	Antenna Gain (dBi)	Frequency Range (GHz)	Antenna Type
Left Antenna Antenna 1 WiFi/BT Main	2.6	2.4~2.4835	PIFA
Left Antenna Antenna 1 WiFi/BT Main	3.5	5.15~5.85	PIFA
Right Antenna Antenna 2 WiFi AUX	2.6	2.4~2.4835	PIFA
Right Antenna Antenna 2 WiFi AUX	3.6	5.15~5.85	PIFA

4. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
5. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

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

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

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

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

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where **RE≥1G:** Radiated Emission above 1 GHz **RE<1G:** Radiated Emission below 1 GHz
PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

Note: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

Radiated Emission Test (Above 1 GHz):

☒ 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).
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 13	1, 2, 6, 10, 11, 12, 13	DSSS	DBPSK	1.0
	802.11g	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	6.0
	802.11n (VHT20)	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	MCS0
	802.11n (VHT40)	3 to 11	3, 4, 6, 8, 9, 10, 11	OFDM	BPSK	MCS0

Radiated Emission Test (Below 1 GHz):

☒ 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).
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11g	1 to 13	6	OFDM	BPSK	6.0

Power Line Conducted Emission Test:

☒ 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).
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11g	1 to 13	6	OFDM	BPSK	6.0

Bandedge Measurement:

☒ 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).
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 13	1, 2, 6, 10, 11, 12, 13	DSSS	DBPSK	1.0
	802.11g	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	6.0
	802.11n (VHT20)	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	MCS0
	802.11n (VHT40)	3 to 11	3, 4, 6, 8, 9, 10, 11	OFDM	BPSK	MCS0

Bandwidth, Power Spectral Density and Conducted Out of Band Emission Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
☒ 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).
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 13	1, 2, 6, 10, 11, 12, 13	DSSS	DBPSK	1.0
	802.11g	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	6.0
	802.11n (VHT20)	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	MCS0
	802.11n (VHT40)	3 to 11	3, 4, 5, 6, 7, 8, 9, 10, 11	OFDM	BPSK	MCS0

Conducted Output Power Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
☒ 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).
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 13	1, 2, 6, 10, 11, 12, 13	DSSS	DBPSK	1.0
	802.11g	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	6.0
	802.11n (HT20)	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	6.5
	802.11n (HT40)	3 to 11	3, 4, 5, 6, 7, 8, 9, 10, 11	OFDM	BPSK	13.5
	802.11n (VHT20)	1 to 13	1, 2, 6, 10, 11, 12, 13	OFDM	BPSK	MCS0
	802.11n (VHT40)	3 to 11	3, 4, 5, 6, 7, 8, 9, 10, 11	OFDM	BPSK	MCS0

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE≥1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Charles Hsiao
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee
PLC	25 deg. C, 75 % RH	120 Vac, 60 Hz	Edison Lee
APCM	25 deg. C, 60 % RH	120 Vac, 60 Hz	Jisyong Wang

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is ≥ 98 %, duty factor is not required.
Duty cycle of test signal is < 98 %, duty factor shall be considered.

SISO_Chain A

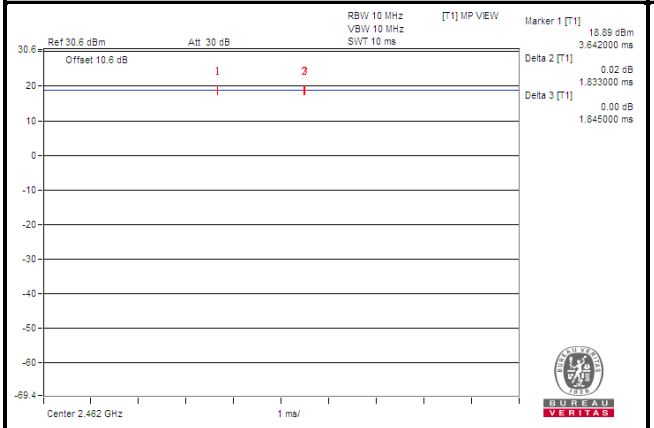
802.11b: Duty cycle = 100%

802.11g: Duty cycle = 2.057/2.119 = 0.971, Duty factor = 10 * log(1/0.971) = 0.13

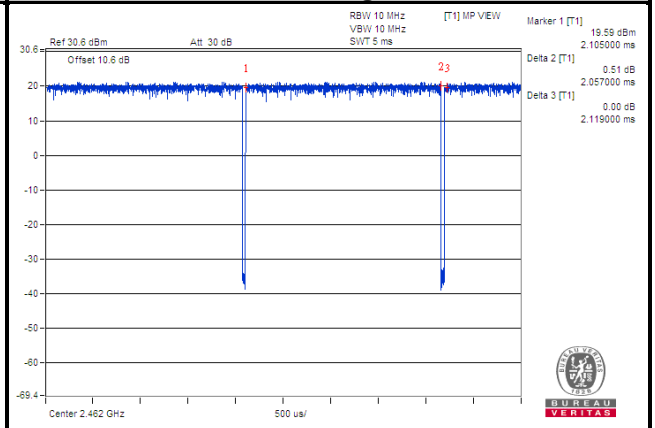
802.11n (VHT20): Duty cycle = 1.92/1.962 = 0.979, Duty factor = 10 * log(1/0.979) = 0.09

802.11n (VHT40): Duty cycle = 0.944/0.999 = 0.945, Duty factor = 10 * log(1/0.945) = 0.25

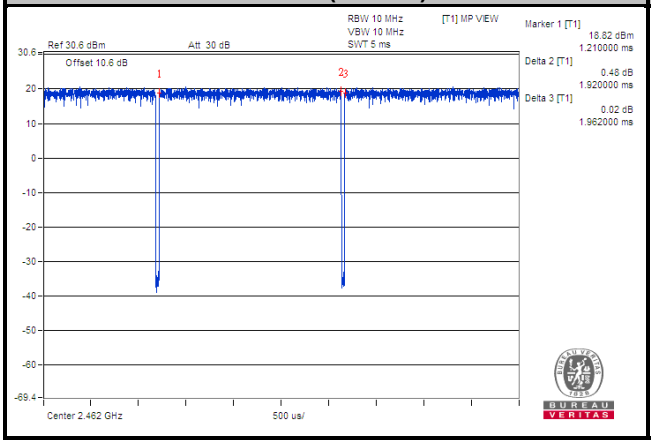
802.11b



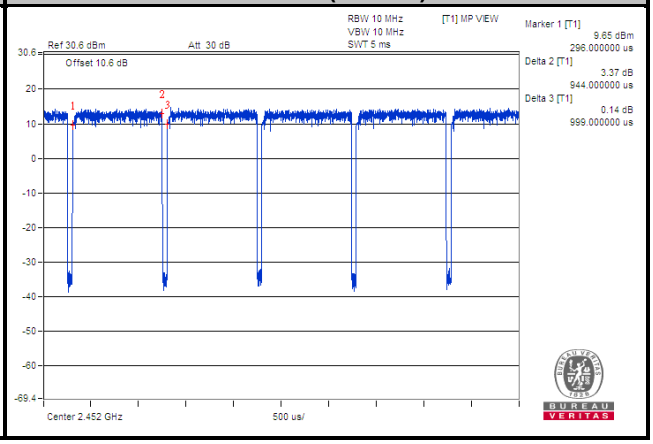
802.11g



802.11n (VHT20)



802.11n (VHT40)



SISO_Chain B

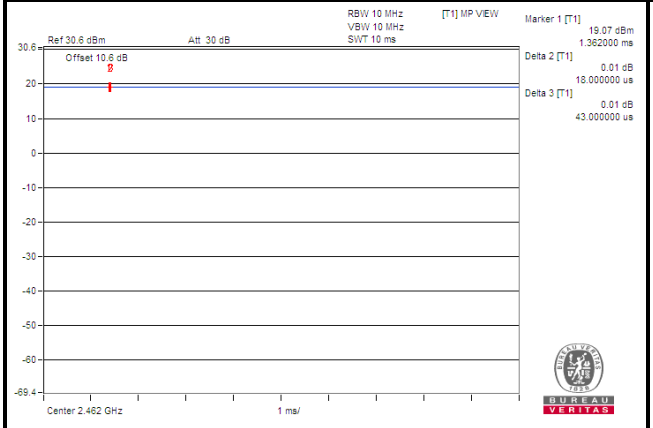
802.11b: Duty cycle = 100%

802.11g: Duty cycle = 2.057/2.103 = 0.978, Duty factor = 10 * log(1/0.978) = 0.10

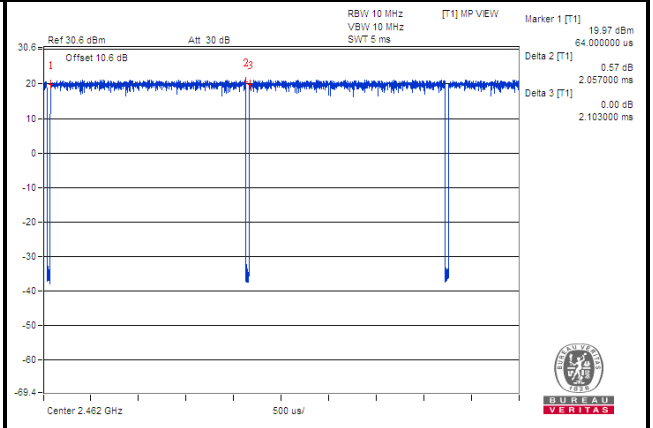
802.11n (VHT20): Duty cycle = 1.919/1.96 = 0.979, Duty factor = 10 * log(1/0.979) = 0.09

802.11n (VHT40): Duty cycle = 0.945/1.002 = 0.943, Duty factor = 10 * log(1/0.943) = 0.25

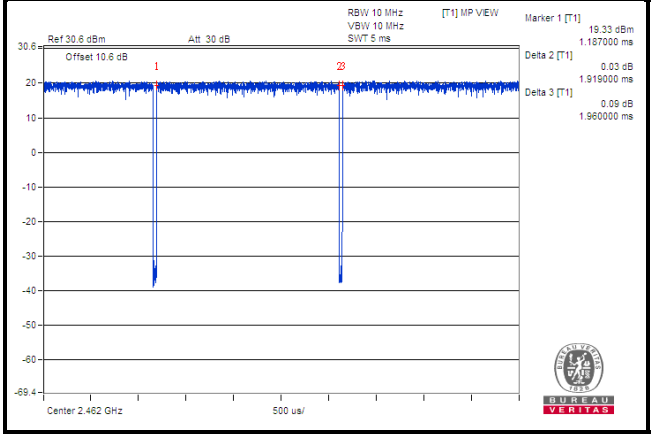
802.11b



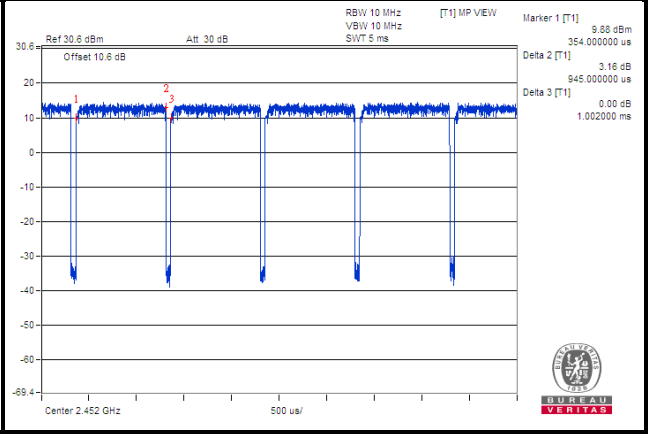
802.11g



802.11n (VHT20)



802.11n (VHT40)



MIMO

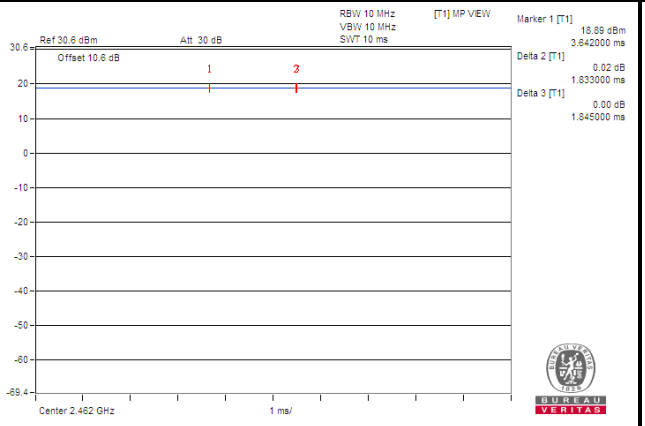
802.11b: Duty cycle = 100%

802.11g: Duty cycle = 2.057/2.119 = 0.971, Duty factor = 10 * log(1/0.971) = 0.13

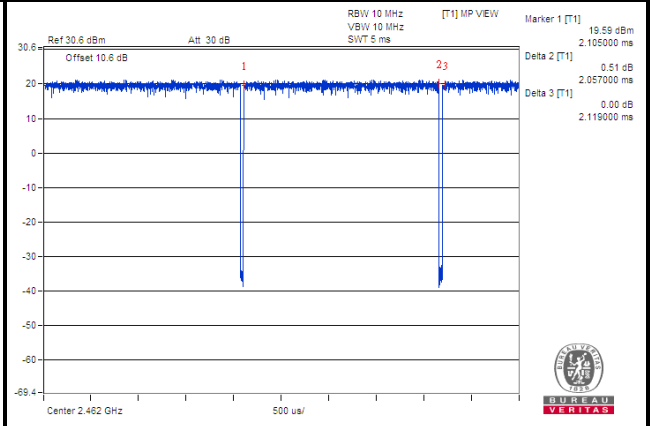
802.11n (VHT20): Duty cycle = 1.92/1.962 = 0.979, Duty factor = 10 * log(1/0.979) = 0.09

802.11n (VHT40): Duty cycle = 0.944/0.999 = 0.945, Duty factor = 10 * log(1/0.945) = 0.25

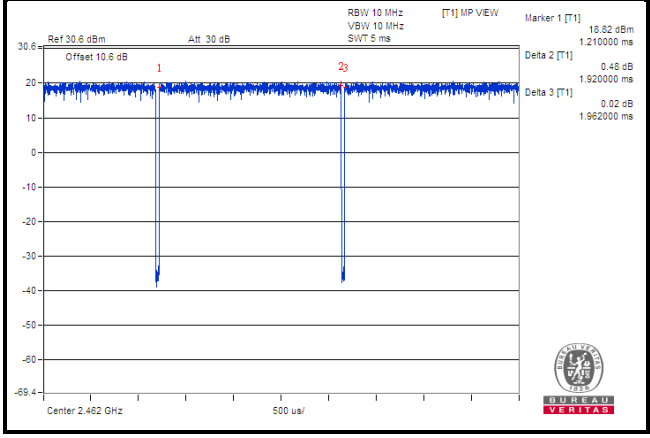
802.11b



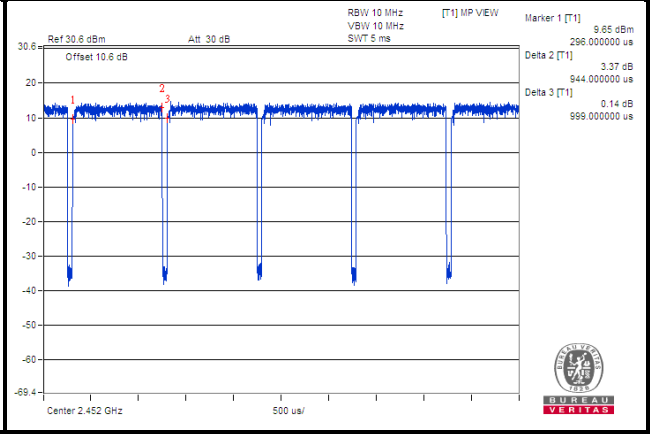
802.11g



802.11n (VHT20)



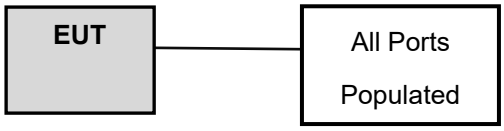
802.11n (VHT40)



3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

3.4.1 Configuration of System under Test



Note: The EUT is tested with all external accessory ports populated.

3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test Standard:

FCC Part 15, Subpart C (15.247)
ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 558074 D01 Meas Guidance v05r02
KDB 662911 D01 Multiple Transmitter Output v02r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. 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.

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
Test Receiver Agilent Technologies	N9038A	MY52260177	Aug. 24, 2020	Aug. 23, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 12, 2021	Apr. 11, 2022
HORN Antenna ETS-Lindgren	3117	00143293	Nov. 22, 2020	Nov. 21, 2021
BILOG Antenna SCHWARZBECK	VULB 9168	9168-616	Nov. 09, 2020	Nov. 08, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Nov. 22, 2020	Nov. 21, 2021
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 13, 2021	Apr. 12, 2022
Loop Antenna	EM-6879	269	Sep. 17, 2020	Sep. 16, 2021
Preamplifier Agilent	310N	187226	Jun. 17, 2020	Jun. 16, 2021
			Jun. 17, 2021	Jun. 16, 2022
Preamplifier Agilent	83017A	MY39501357	Jun. 17, 2020	Jun. 16, 2021
			Jun. 17, 2021	Jun. 16, 2022
Preamplifier EMCI	EMC 184045	980116	Oct. 07, 2020	Oct. 06, 2021
Power Meter Anritsu	ML2495A	1012010	Sep. 01, 2020	Aug. 31, 2021
Power Sensor Anritsu	MA2411B	1315050	Sep. 01, 2020	Aug. 31, 2021
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-400)	Jun. 17, 2020	Jun. 16, 2021
			Jun. 17, 2021	Jun. 16, 2022
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(RFC-SMS-100-SMS-24)	Jun. 17, 2020	Jun. 17, 2021
			Jun. 17, 2021	Jun. 16, 2022
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA
Spectrum Analyzer ROHDE & SCHWARZ	FSV40	100979	Mar. 29, 2021	Mar. 28, 2022
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55190004/ MY55190007/MY55210005	Jul. 13, 2020	Jul. 12, 2021
			Jul. 12, 2021	Jul. 11, 2022

Note: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HsinTien Chamber 1.
3. Radiated Emission Test Date: 2021/04/15 ~ 2021/07/28
4. Antenna Port Conducted Measurement Test Date: 2021/05/13.

4.1.3 Test Procedures

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 a 3 meter chamber room. 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.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

For Radiated Emission above 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) 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.
f. The test-receiver system was set to peak and average detected 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.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.

SISO_Chain A

802.11b: RBW = 1 MHz, VBW = 10 Hz

802.11g: RBW = 1 MHz, VBW = 10 kHz

802.11n (VHT20): RBW = 1 MHz, VBW = 10 kHz

802.11n (VHT40): RBW = 1 MHz, VBW = 10 kHz

SISO_Chain B

802.11b: RBW = 1 MHz, VBW = 10 Hz

802.11g: RBW = 1 MHz, VBW = 10 kHz

802.11n (VHT20): RBW = 1 MHz, VBW = 10 kHz

802.11n (VHT40): RBW = 1 MHz, VBW = 10 kHz

MIMO

802.11b: RBW = 1 MHz, VBW = 10 Hz

802.11g: RBW = 1 MHz, VBW = 10 kHz

802.11n (VHT20): RBW = 1 MHz, VBW = 10 kHz

802.11n (VHT40): RBW = 1 MHz, VBW = 10 kHz

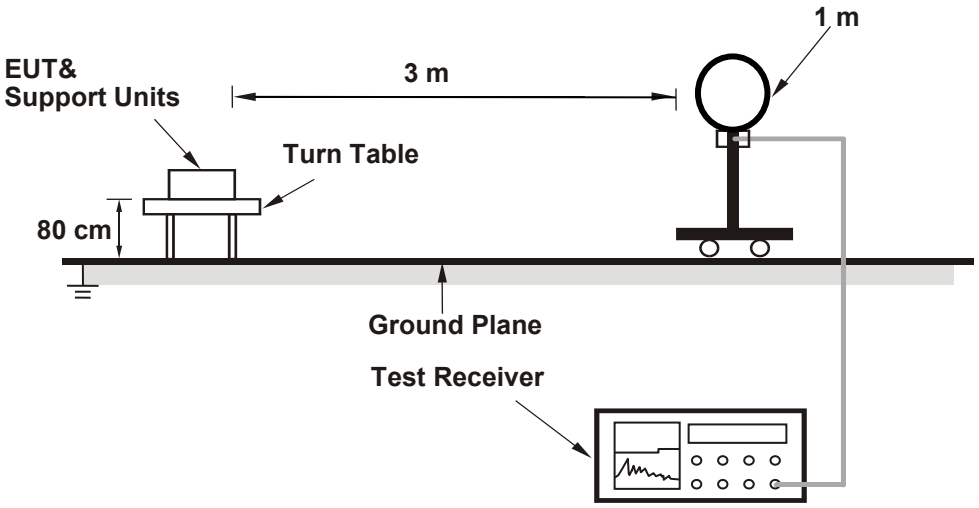
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

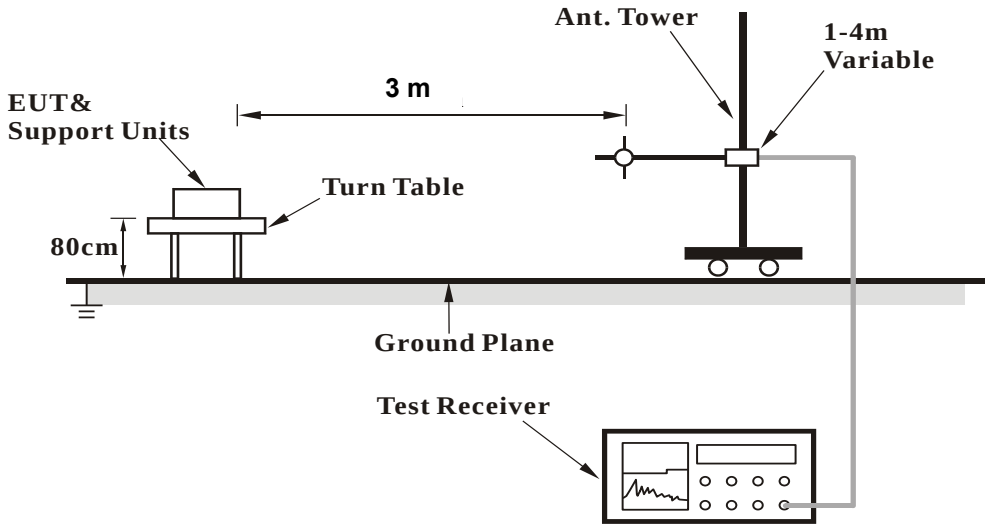
No deviation.

4.1.5 Test Set Up

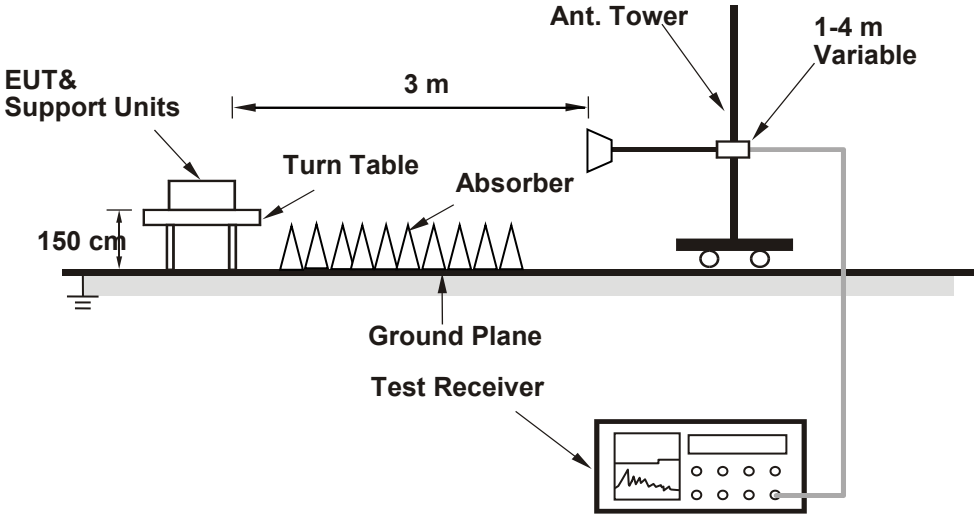
<Radiated Emission below 30 MHz>



<Radiated Emission 30 MHz to 1 GHz>



<Radiated Emission above 1 GHz>



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

4.1.6 EUT Operating Conditions

a. Placed the EUT on a testing table.
b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

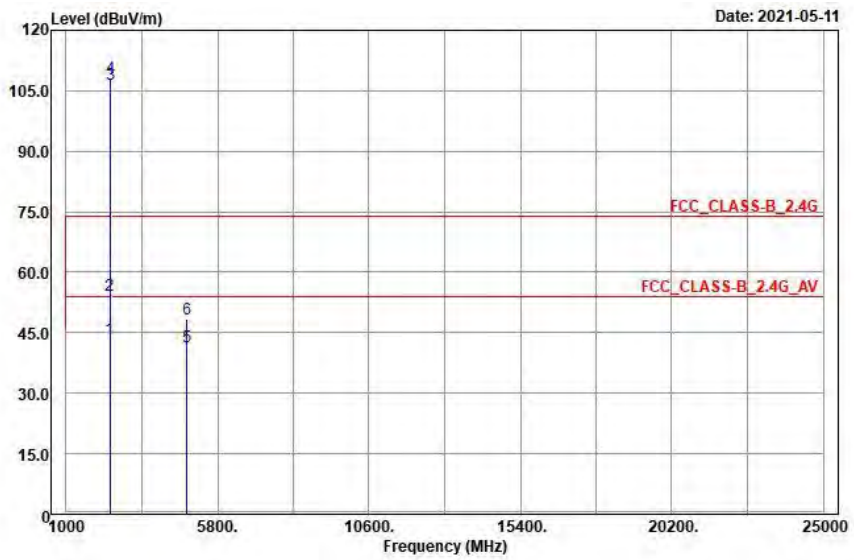
Above 1 GHz Data：

SISO_Chain A

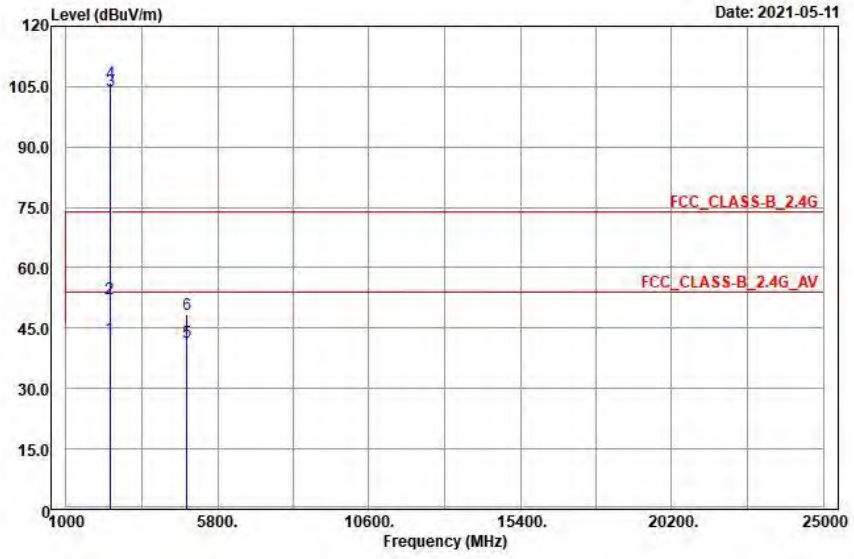
802.11b

EUT Test Condition		Measurement Detail	
Channel	Channel 1	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



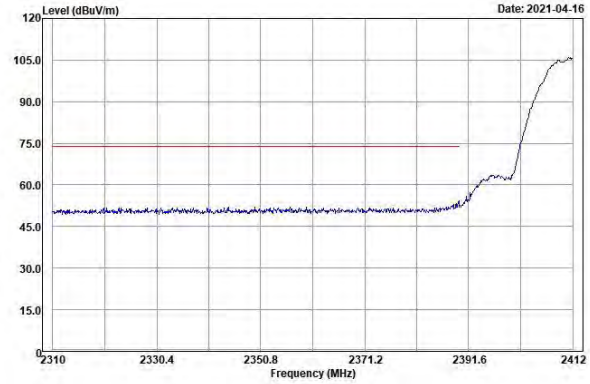
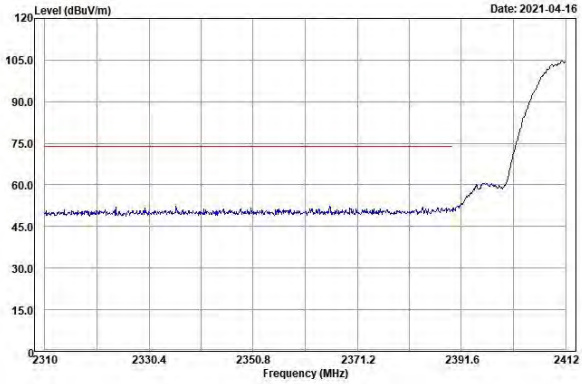
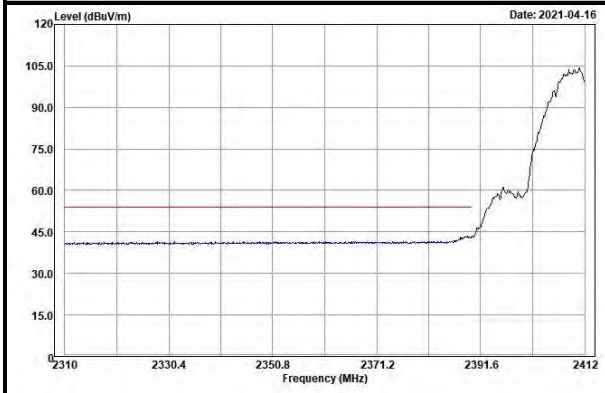
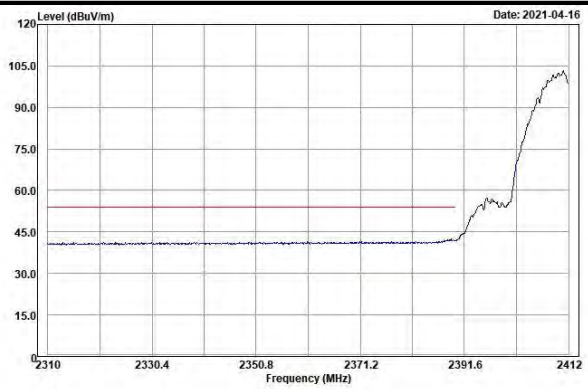
Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	43.37	38.87	4.5	54	-10.63	147	111	Average
2390	54.25	49.75	4.5	74	-19.75	147	111	Peak
2412	106.75	102.2	4.55			147	111	Average
2412	108.14	103.59	4.55			147	111	Peak
4824	41.57	31.28	10.29	54	-12.43	158	114	Average
4824	48.34	38.05	10.29	74	-25.66	158	114	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	42.61	38.11	4.5	54	-11.39	304	83	Average
2390	52.31	47.81	4.5	74	-21.69	304	83	Peak
2412	104.02	99.47	4.55			304	83	Average
2412	105.82	101.27	4.55			304	83	Peak
4824	41.54	31.25	10.29	54	-12.46	154	24	Average
4824	48.25	37.96	10.29	74	-25.75	154	24	Peak

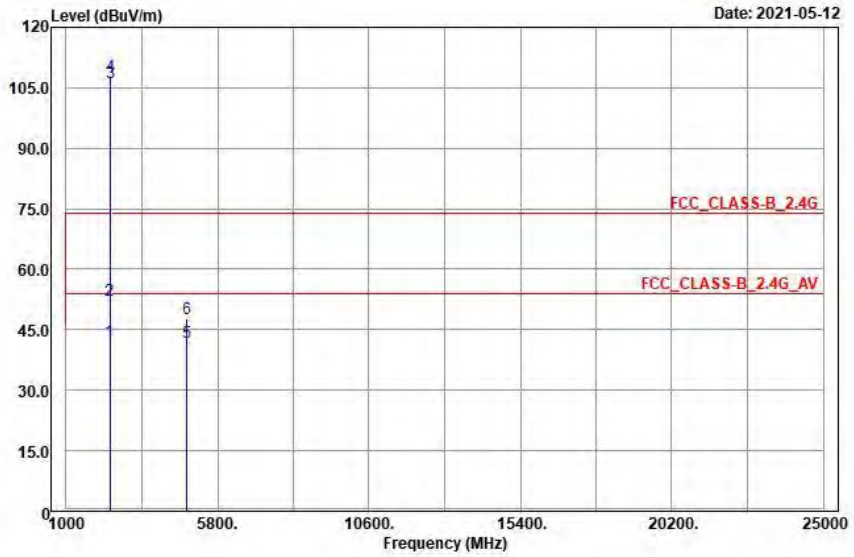
Remarks:

1. Emission Level = Read Level + Factor
   Margin Value = Emission Level – Limit value
2. 2412 MHz: Fundamental Frequency.
3. The other emission levels were very low against the limit.

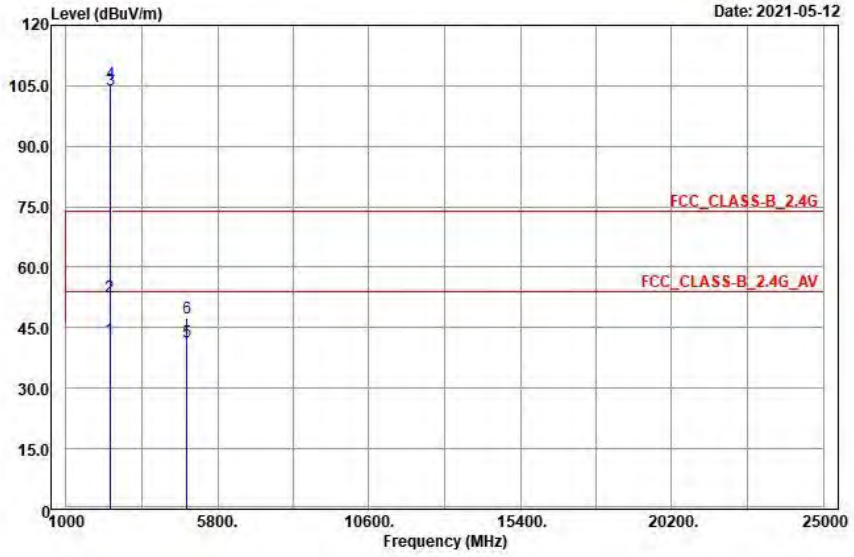
Ch 1	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 2	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



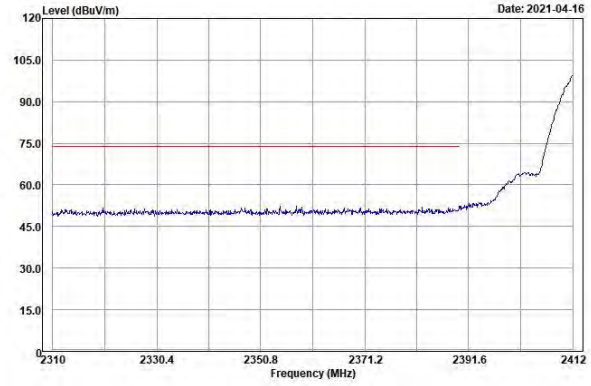
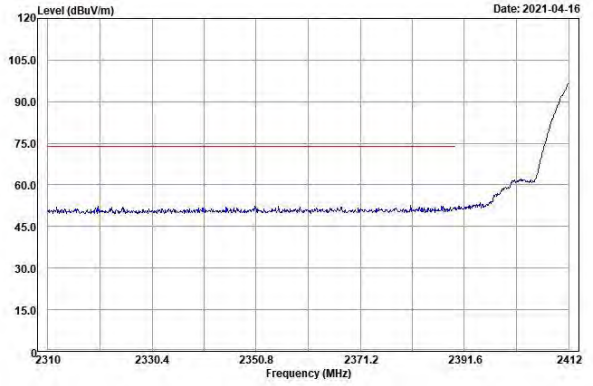
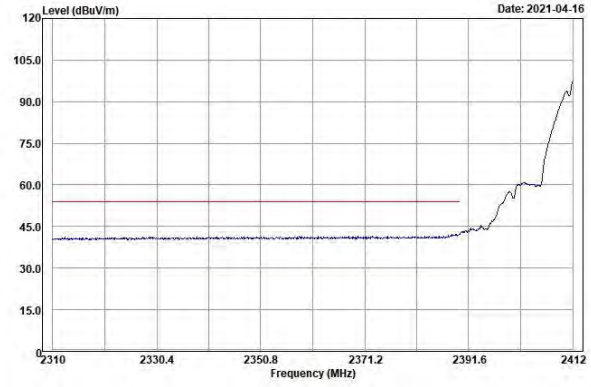
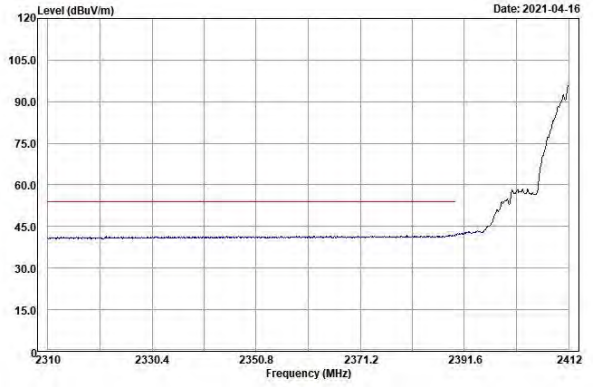
Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	42.28	37.78	4.5	54	-11.72	154	111	Average
2390	52.45	47.95	4.5	74	-21.55	154	111	Peak
2417	106.35	101.81	4.54			154	111	Average
2417	108.04	103.5	4.54			154	111	Peak
4834	41.71	31.42	10.29	54	-12.29	185	5	Average
4834	47.64	37.35	10.29	74	-26.36	185	5	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	42.1	37.6	4.5	54	-11.9	304	83	Average
2390	52.68	48.18	4.5	74	-21.32	304	83	Peak
2417	104.08	99.54	4.54			304	83	Average
2417	105.73	101.19	4.54			304	83	Peak
4834	41.61	31.32	10.29	54	-12.39	115	274	Average
4834	47.31	37.02	10.29	74	-26.69	115	274	Peak

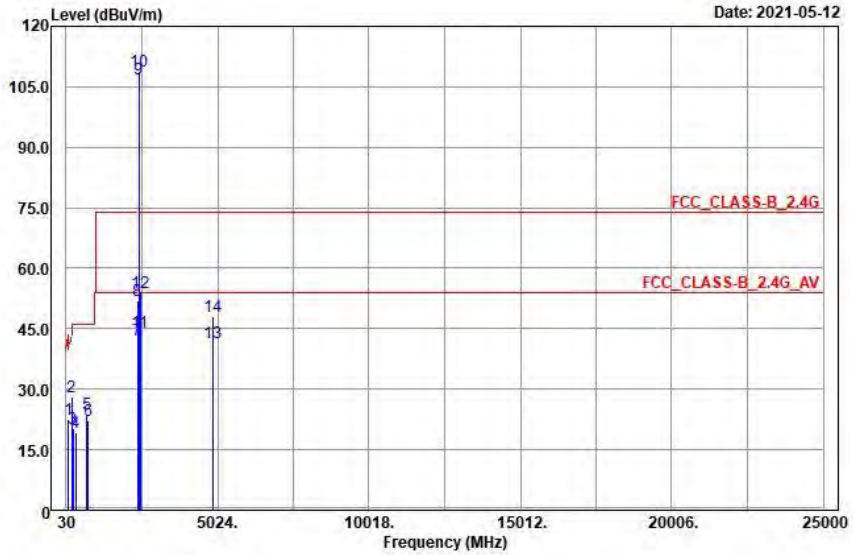
Remarks:

1. Emission Level = Read Level + Factor
   Margin Value = Emission Level – Limit value
2. 2417 MHz: Fundamental Frequency.
3. The other emission levels were very low against the limit.

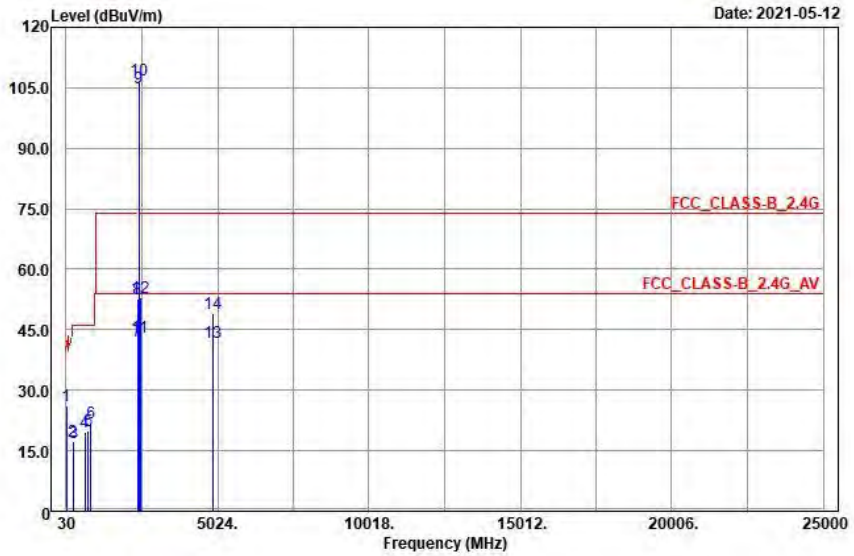
Ch 2	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 6	**Frequency Range**	30 MHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Above 1 GHz:Peak (PK)& Average(AV) Below 1 GHz:Peak (PK) or Quasi-Peak(QP)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
111	22.63	40.41	-17.78	43.5	-20.87	111	141	QP
214.68	28.14	46.16	-18.02	43.5	-15.36	105	252	QP
263.28	20.28	36.92	-16.64	46	-25.72	138	2	QP
355.3	19.37	34.03	-14.66	46	-26.63	177	194	QP
724.2	23.77	32.49	-8.72	46	-22.23	105	252	QP
753.6	22.21	30.64	-8.43	46	-23.79	135	225	QP
2390	42.11	37.61	4.5	54	-11.89	154	111	Average
2390	51.84	47.34	4.5	74	-22.16	154	111	Peak
2437	106.98	102.39	4.59			154	111	Average
2437	108.74	104.15	4.59			154	111	Peak
2483.5	43.99	39.33	4.66	54	-10.01	154	111	Average
2483.5	53.86	49.2	4.66	74	-20.14	154	111	Peak
4874	41.67	31.46	10.21	54	-12.33	101	21	Average
4874	47.93	37.72	10.21	74	-26.07	101	21	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
49.71	26.29	41.44	-15.15	40	-13.71	145	164	QP
253.83	17.47	34.25	-16.78	46	-28.53	105	94	QP
289.47	16.94	33.12	-16.18	46	-29.06	169	333	QP
657.7	19.59	29.51	-9.92	46	-26.41	185	3	QP
761.3	20.03	28.27	-8.24	46	-25.97	105	199	QP
843.9	21.92	28.82	-6.9	46	-24.08	215	114	QP
2390	42.02	37.52	4.5	54	-11.98	311	83	Average
2390	52.54	48.04	4.5	74	-21.46	311	83	Peak
2437	105.04	100.45	4.59			311	83	Average
2437	106.76	102.17	4.59			311	83	Peak
2483.5	43.15	38.49	4.66	54	-10.85	311	83	Average
2483.5	53.09	48.43	4.66	74	-20.91	311	83	Peak
4874	41.74	31.53	10.21	54	-12.26	128	208	Average
4874	49.1	38.89	10.21	74	-24.9	128	208	Peak

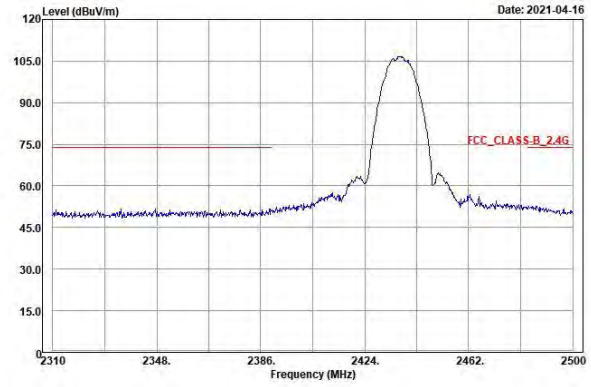
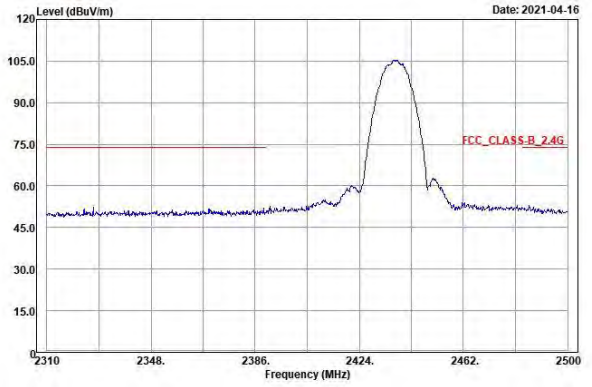
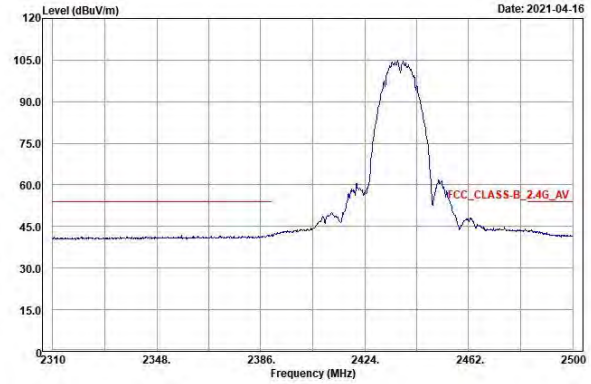
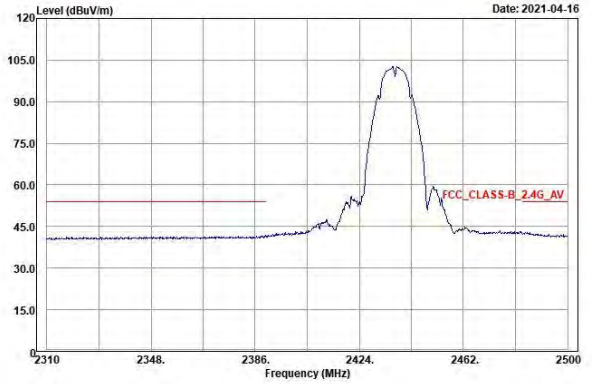
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

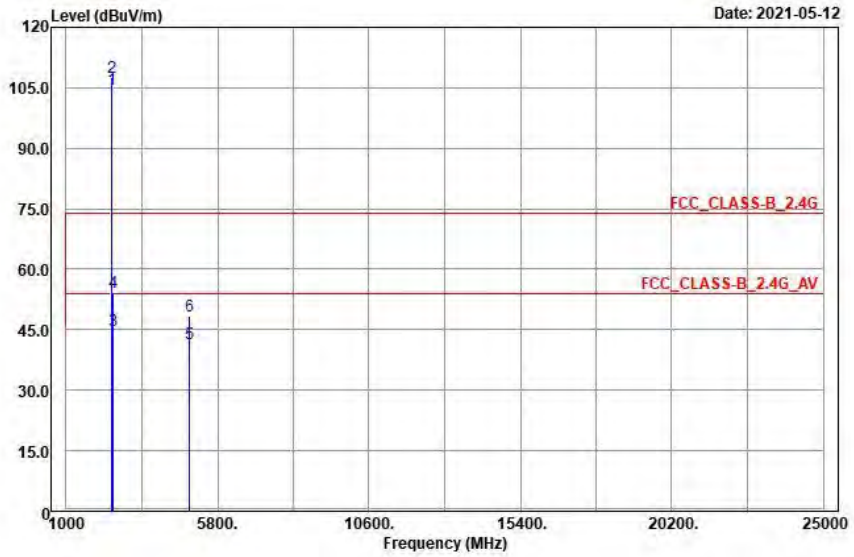
2. 2437 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

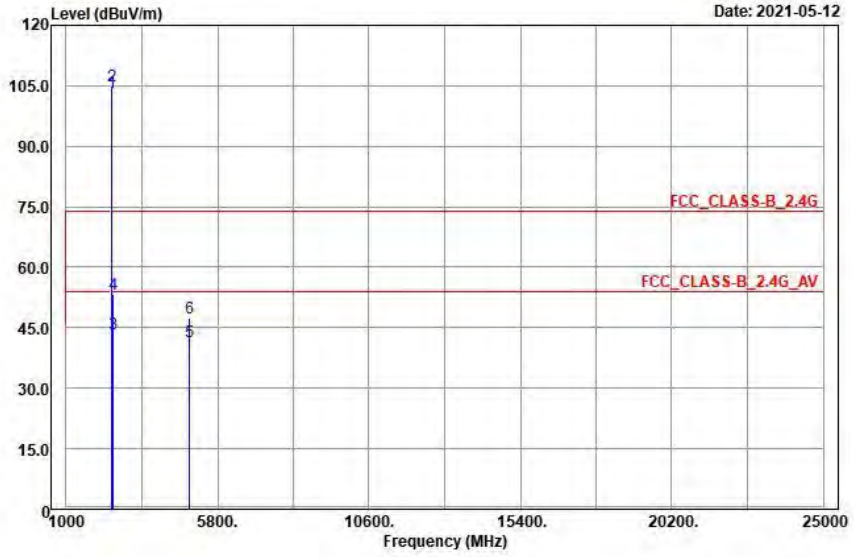
Ch 6	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 10	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2457	104.57	99.95	4.62			100	116	Average
2457	107.55	102.93	4.62			100	116	Peak
2483.5	44.69	40.03	4.66	54	-9.31	100	116	Average
2483.5	54.31	49.65	4.66	74	-19.69	100	116	Peak
4914	41.37	31.22	10.15	54	-12.63	105	222	Average
4914	48.24	38.09	10.15	74	-25.76	105	222	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2457	103.35	98.73	4.62			313	71	Average
2457	104.82	100.2	4.62			313	71	Peak
2483.5	43.43	38.77	4.66	54	-10.57	313	71	Average
2483.5	53.19	48.53	4.66	74	-20.81	313	71	Peak
4914	41.56	31.41	10.15	54	-12.44	133	321	Average
4914	47.53	37.38	10.15	74	-26.47	133	321	Peak

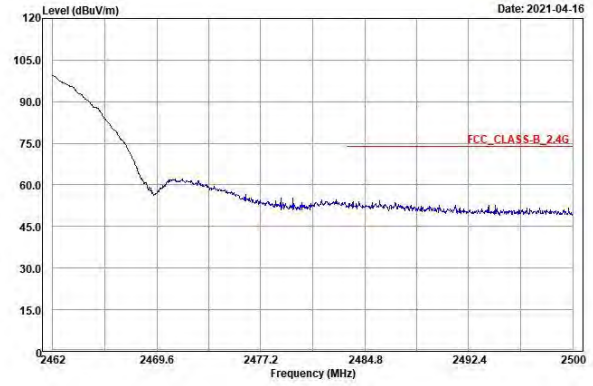
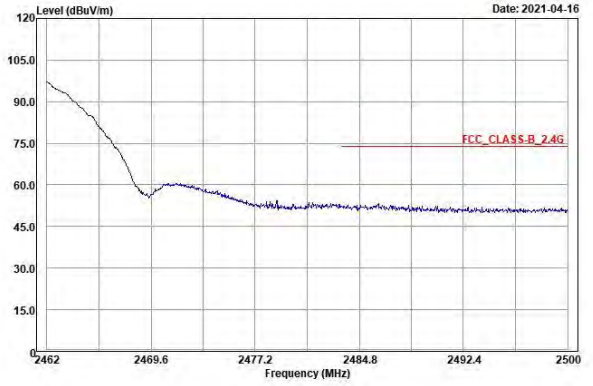
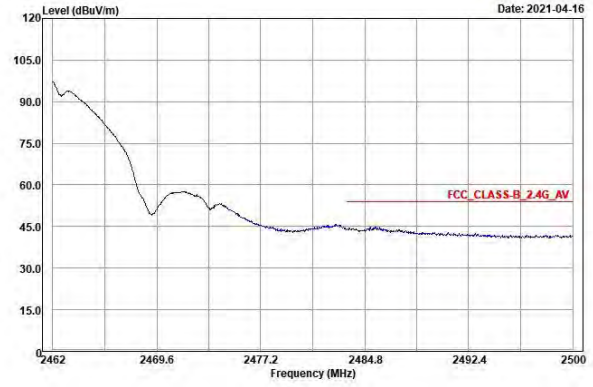
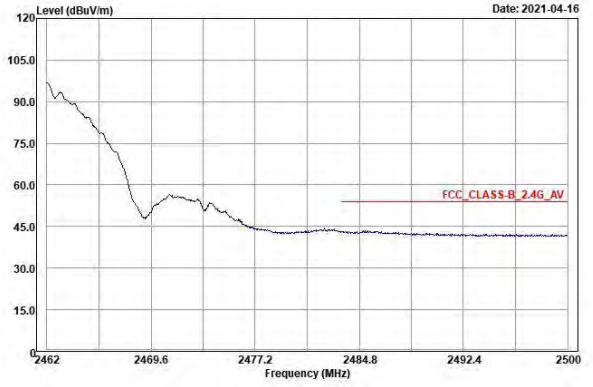
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

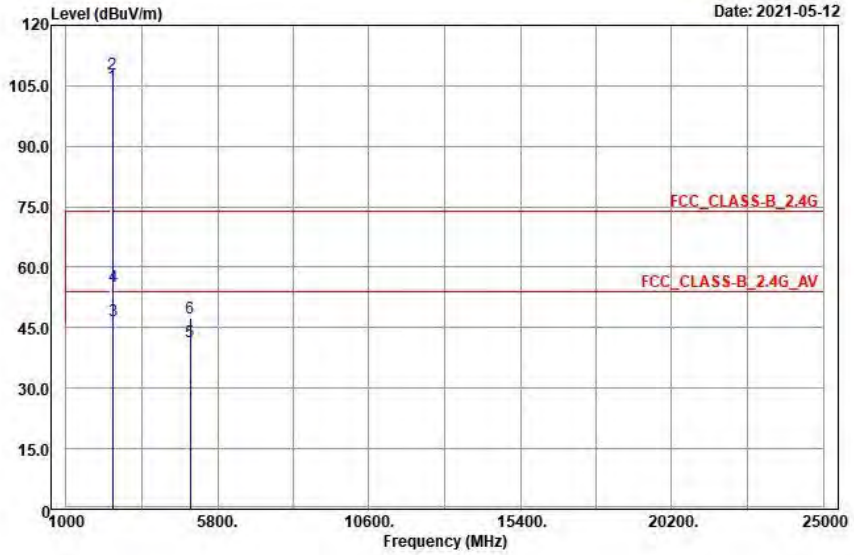
2. 2457 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

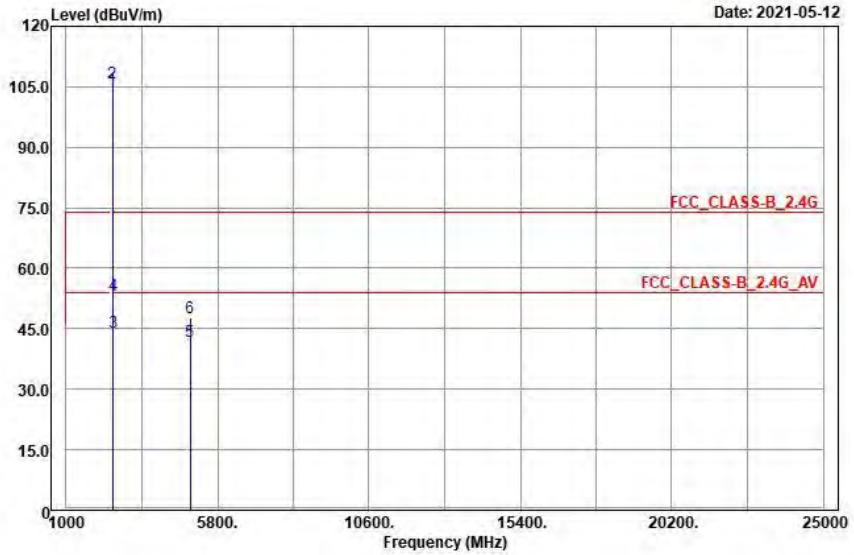
Ch 10	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 11	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2462	104.84	100.22	4.62			100	116	Average
2462	107.8	103.18	4.62			100	116	Peak
2483.5	46.78	42.12	4.66	54	-7.22	100	116	Average
2483.5	55.35	50.69	4.66	74	-18.65	100	116	Peak
4924	41.53	31.28	10.25	54	-12.47	159	32	Average
4924	47.34	37.09	10.25	74	-26.66	159	32	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2462	104.44	99.82	4.62			314	69	Average
2462	105.93	101.31	4.62			314	69	Peak
2483.5	44.16	39.5	4.66	54	-9.84	314	69	Average
2483.5	53.41	48.75	4.66	74	-20.59	314	69	Peak
4924	41.79	31.54	10.25	54	-12.21	154	185	Average
4924	47.88	37.63	10.25	74	-26.12	154	185	Peak

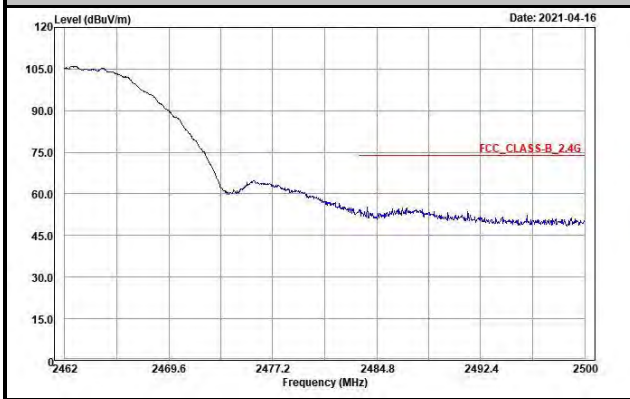
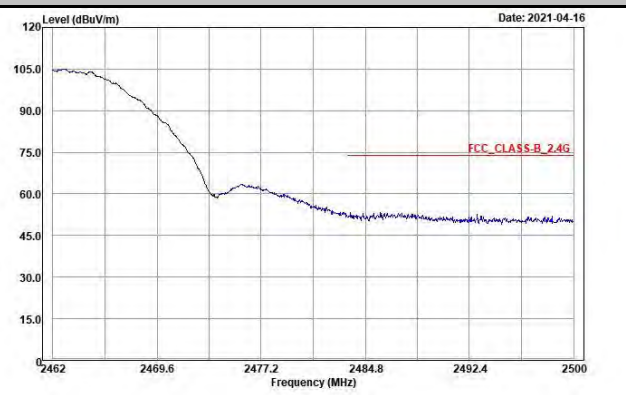
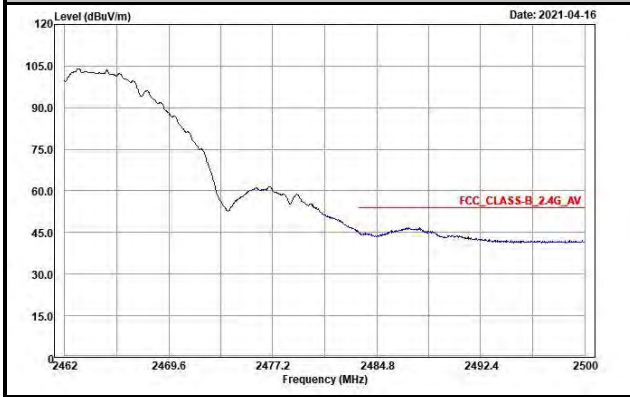
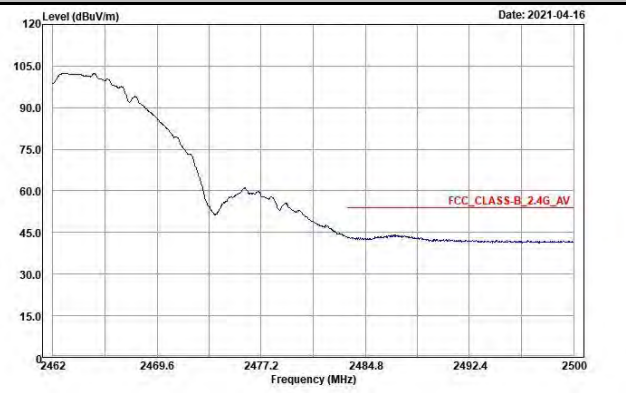
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

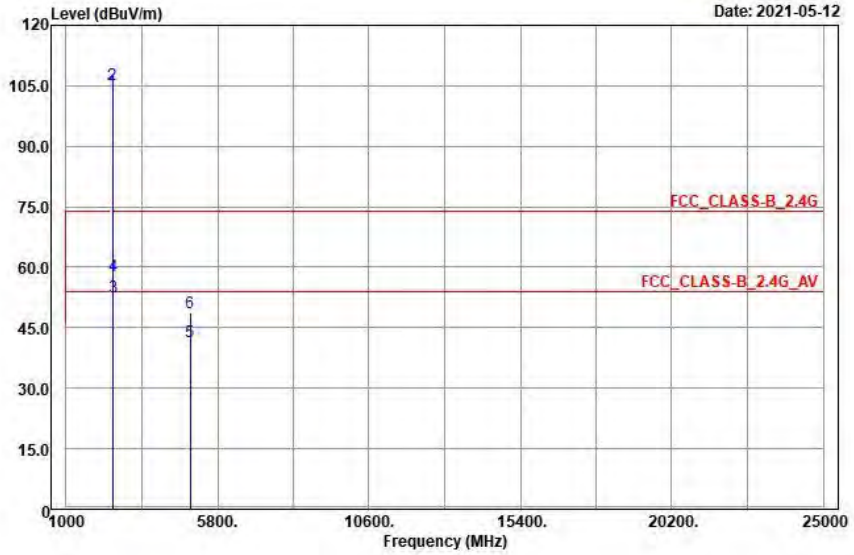
2. 2462 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

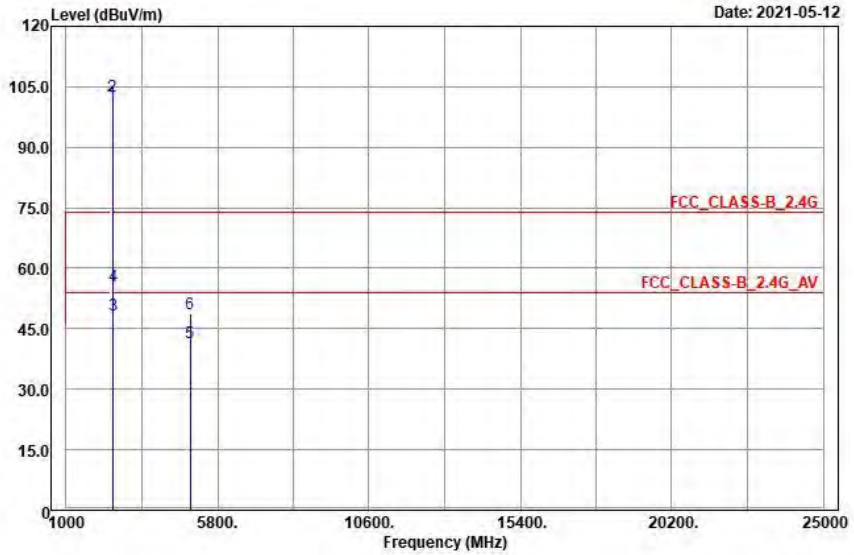
Ch 11	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 12	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



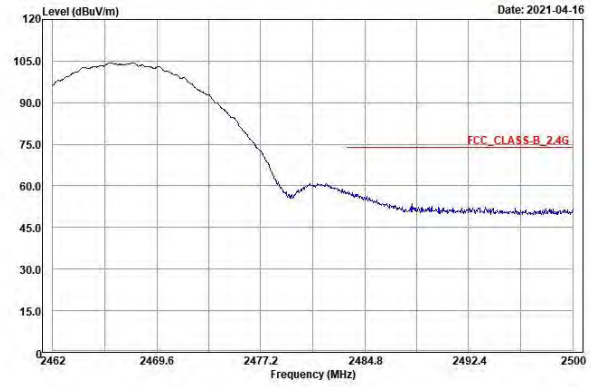
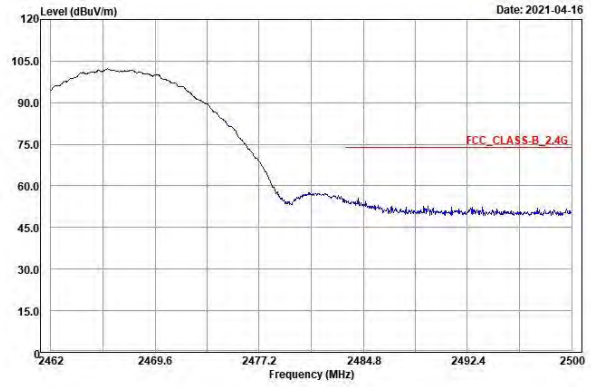
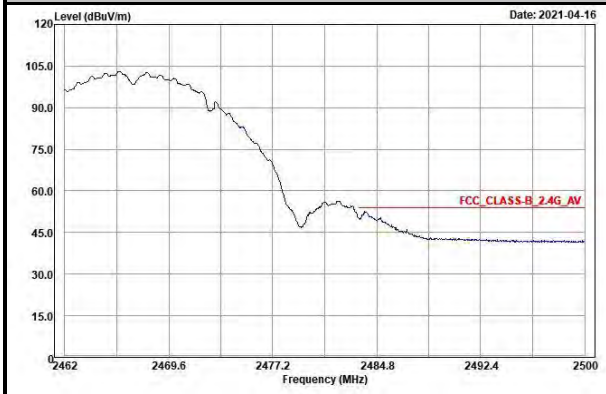
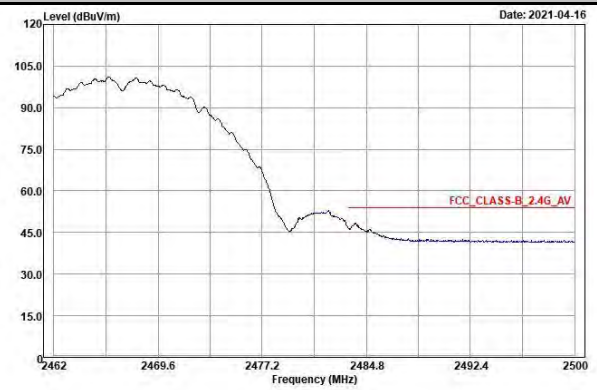
Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2467	103.57	98.94	4.63			130	116	Average
2467	105.44	100.81	4.63			130	116	Peak
2483.5	52.49	47.83	4.66	54	-1.51	100	116	Average
2483.5	57.71	53.05	4.66	74	-16.29	130	116	Peak
4934	41.6	31.34	10.26	54	-12.4	132	206	Average
4934	48.57	38.31	10.26	74	-25.43	132	206	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2467	100.99	96.36	4.63			314	69	Average
2467	102.67	98.04	4.63			314	69	Peak
2483.5	48.34	43.68	4.66	54	-5.66	314	69	Average
2483.5	55.74	51.08	4.66	74	-18.26	314	69	Peak
4934	41.51	31.25	10.26	54	-12.49	154	48	Average
4934	48.8	38.54	10.26	74	-25.2	154	48	Peak

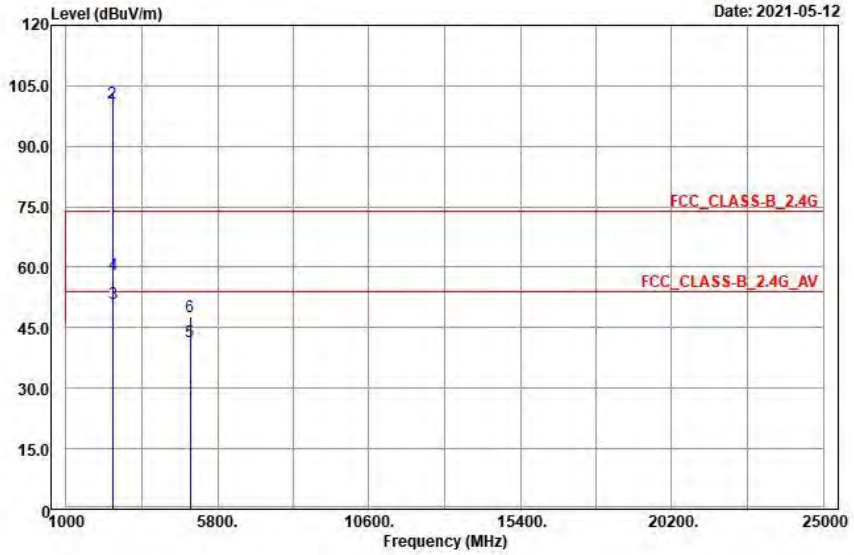
Remarks:

1. Emission Level = Read Level + Factor
   Margin Value = Emission Level – Limit value
2. 2467 MHz: Fundamental Frequency.
3. The other emission levels were very low against the limit.

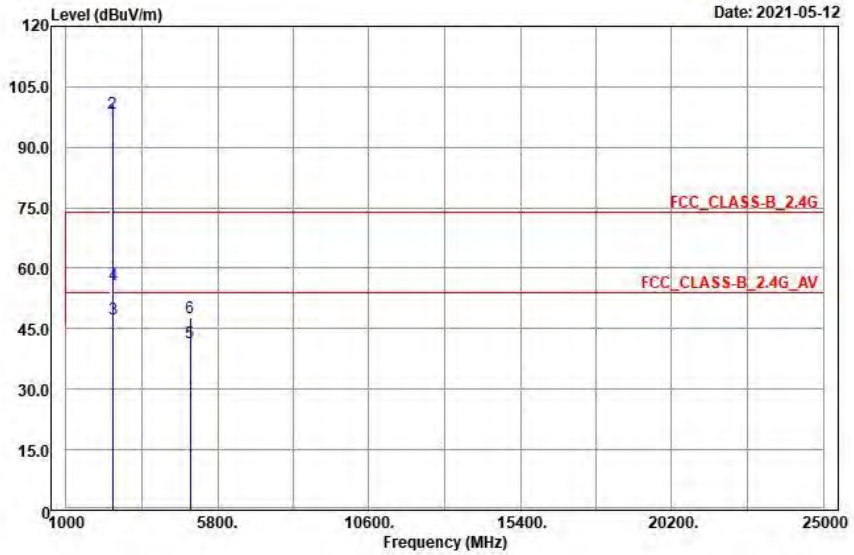
Ch 12	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 13	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2472	99.21	94.57	4.64			100	116	Average
2472	100.87	96.23	4.64			100	116	Peak
2483.5	50.91	46.25	4.66	54	-3.09	100	116	Average
2483.5	58.25	53.59	4.66	74	-15.75	100	116	Peak
4944	41.65	31.3	10.35	54	-12.35	199	65	Average
4944	47.84	37.49	10.35	74	-26.16	199	65	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2472	96.57	91.93	4.64			314	69	Average
2472	98.36	93.72	4.64			314	69	Peak
2483.5	47.28	42.62	4.66	54	-6.72	314	69	Average
2483.5	56.03	51.37	4.66	74	-17.97	314	69	Peak
4944	41.6	31.25	10.35	54	-12.4	154	188	Average
4944	47.73	37.38	10.35	74	-26.27	154	188	Peak

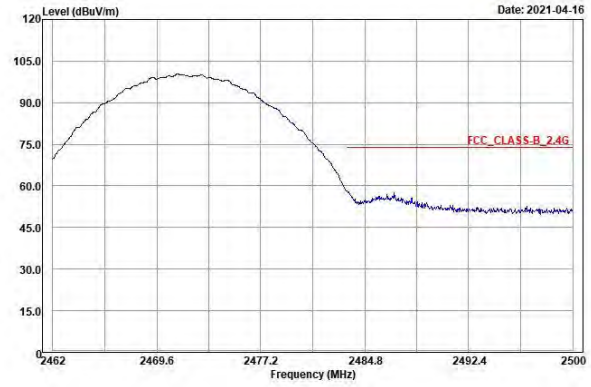
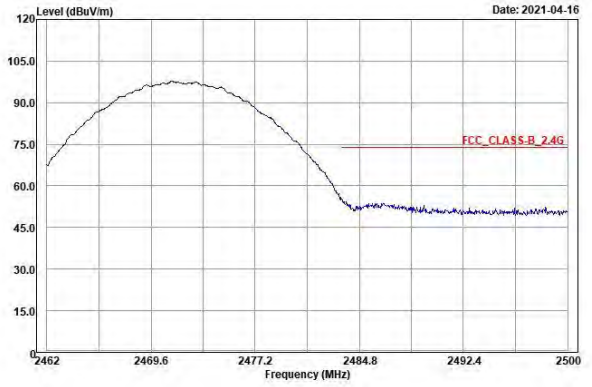
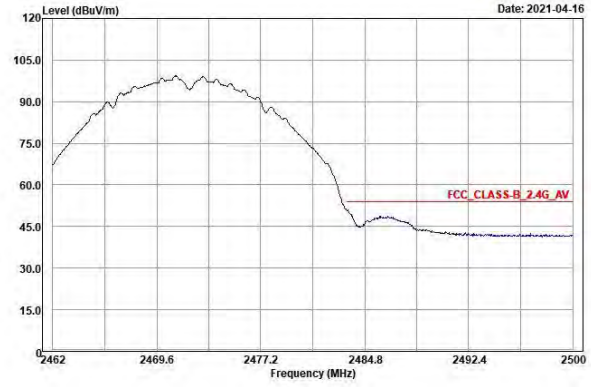
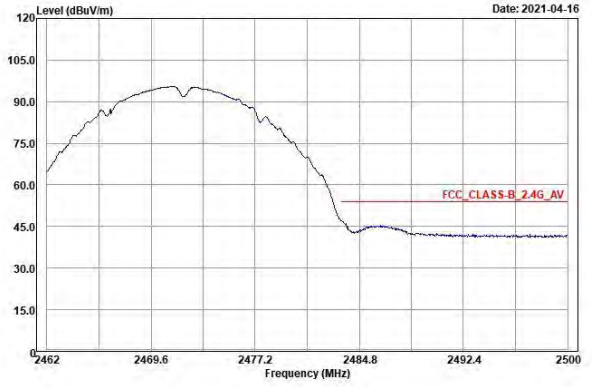
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

2. 2472 MHz: Fundamental Frequency.

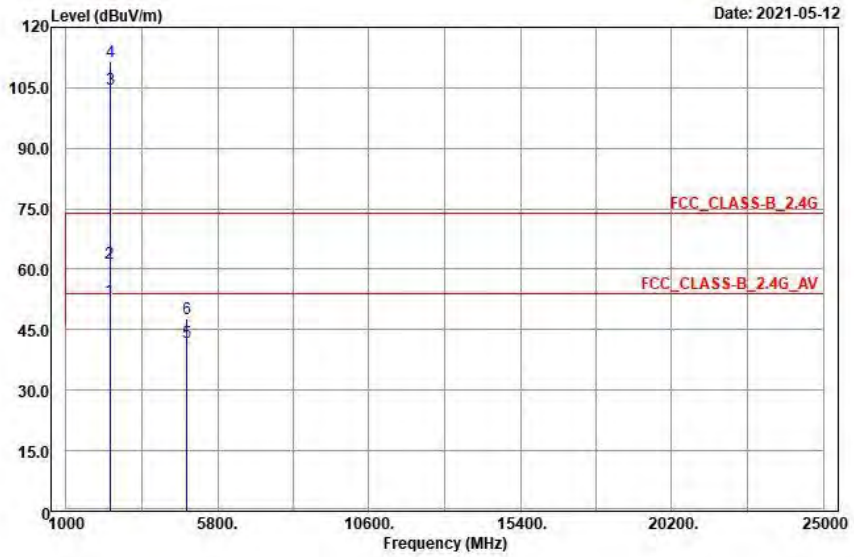
3. The other emission levels were very low against the limit.

Ch 13	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

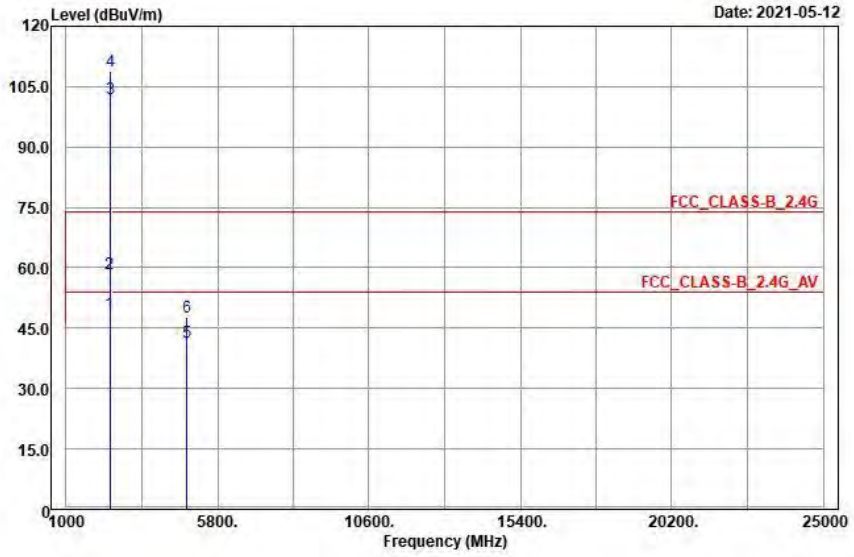
802.11g

EUT Test Condition		Measurement Detail	
Channel	Channel 1	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



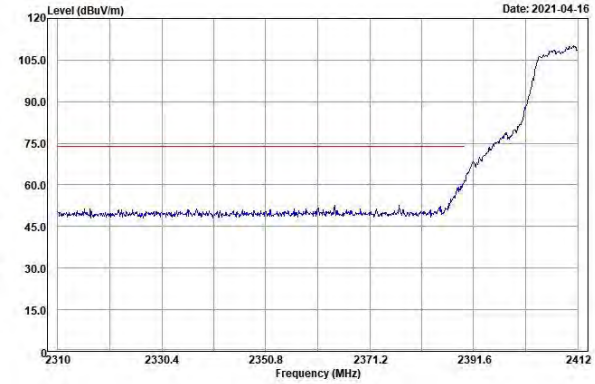
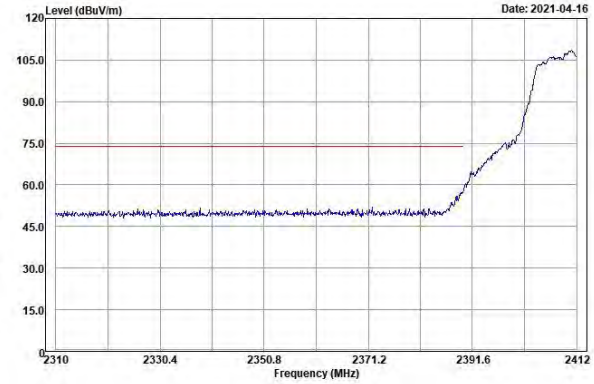
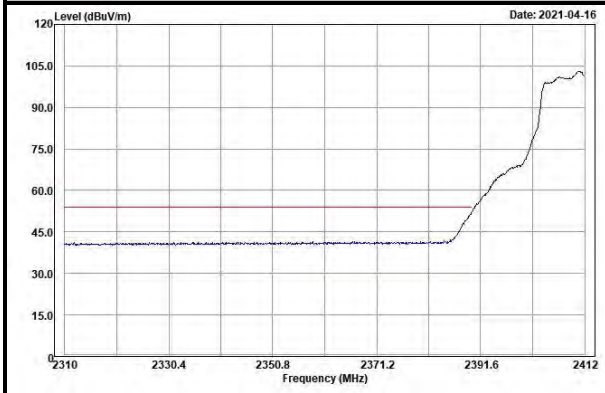
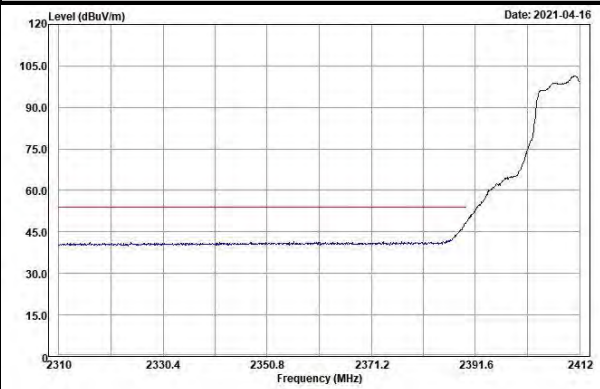
Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	52.36	47.86	4.5	54	-1.64	147	111	Average
2390	61.63	57.13	4.5	74	-12.37	147	111	Peak
2412	104.71	100.16	4.55			147	111	Average
2412	111.48	106.93	4.55			147	111	Peak
4824	41.7	31.41	10.29	54	-12.3	111	305	Average
4824	47.85	37.56	10.29	74	-26.15	111	305	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	48.84	44.34	4.5	54	-5.16	304	83	Average
2390	58.63	54.13	4.5	74	-15.37	304	83	Peak
2412	102	97.45	4.55			304	83	Average
2412	108.76	104.21	4.55			304	83	Peak
4824	41.65	31.36	10.29	54	-12.35	130	265	Average
4824	47.9	37.61	10.29	74	-26.1	130	265	Peak

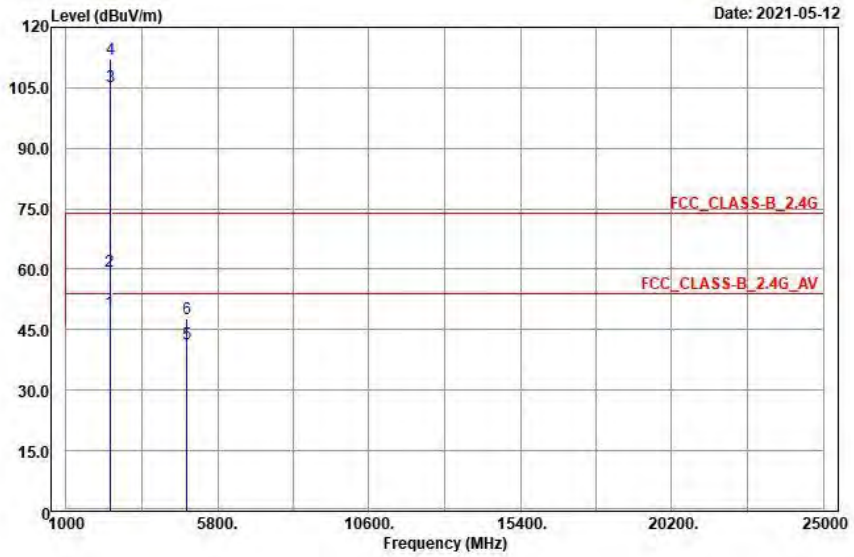
Remarks:

1. Emission Level = Read Level + Factor
   Margin Value = Emission Level – Limit value
2. 2412 MHz: Fundamental Frequency.
3. The other emission levels were very low against the limit.

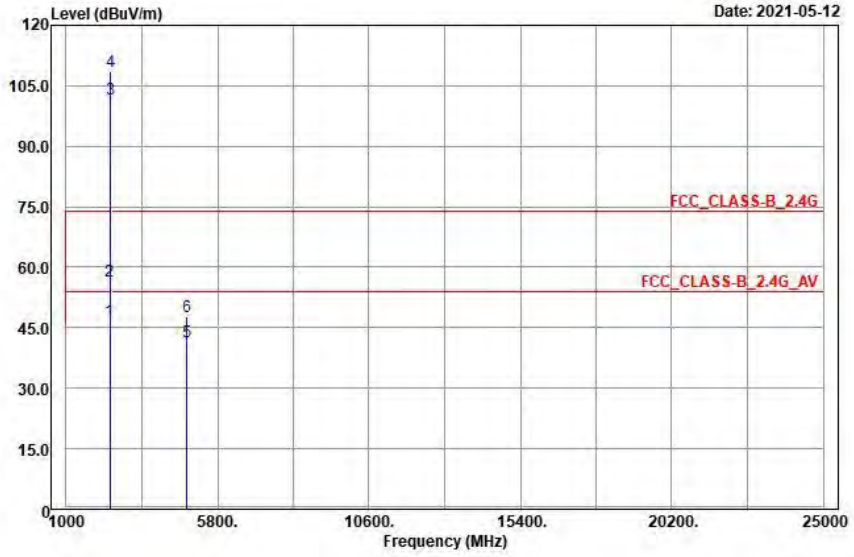
Ch 1	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 2	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	49.47	44.97	4.5	54	-4.53	154	111	Average
2390	59.59	55.09	4.5	74	-14.41	154	111	Peak
2417	105.27	100.73	4.54			154	111	Average
2417	112.24	107.7	4.54			154	111	Peak
4834	41.49	31.2	10.29	54	-12.51	188	74	Average
4834	47.81	37.52	10.29	74	-26.19	188	74	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	46.78	42.28	4.5	54	-7.22	304	83	Average
2390	56.72	52.22	4.5	74	-17.28	304	83	Peak
2417	101.67	97.13	4.54			304	83	Average
2417	108.7	104.16	4.54			304	83	Peak
4834	41.61	31.32	10.29	54	-12.39	134	255	Average
4834	47.65	37.36	10.29	74	-26.35	134	255	Peak

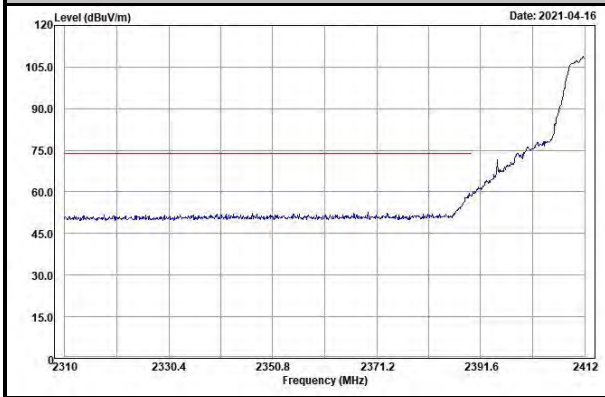
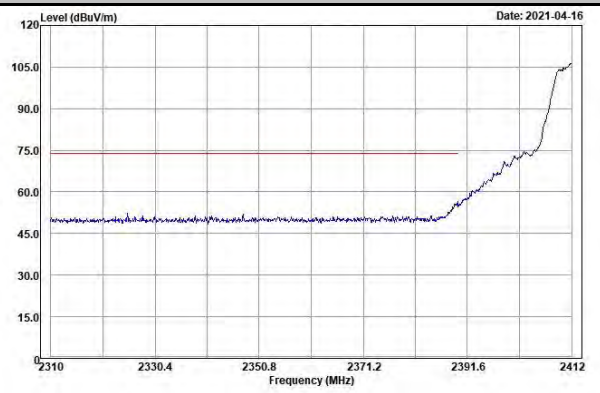
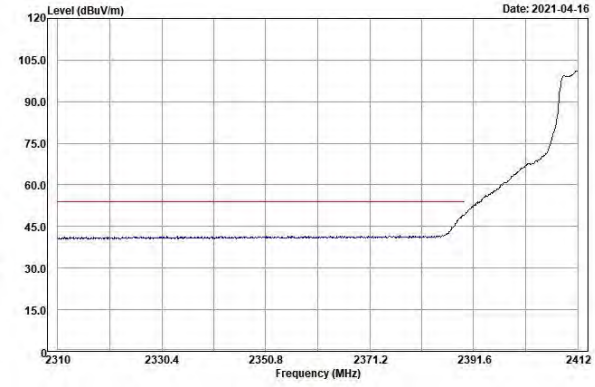
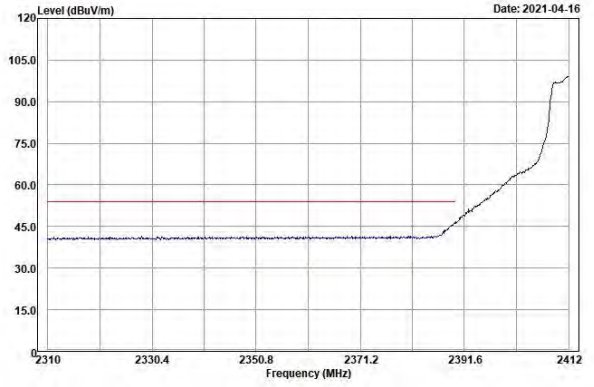
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

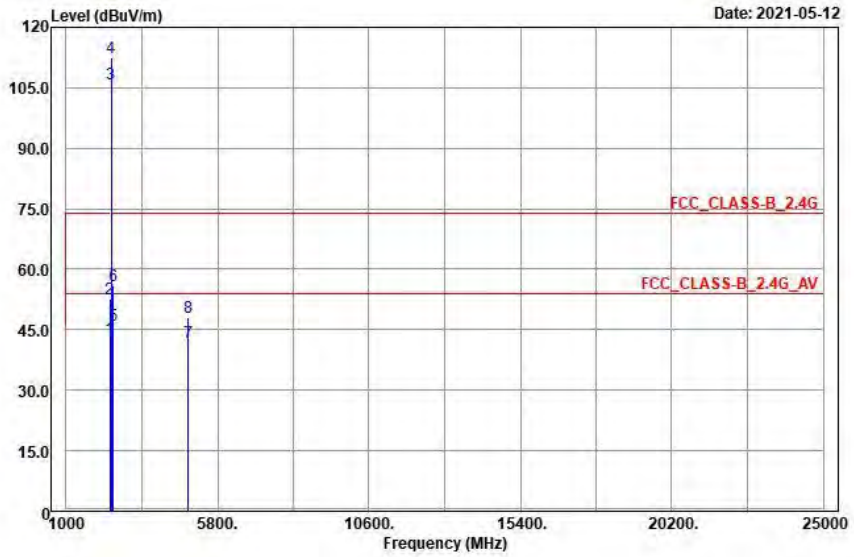
2. 2417 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

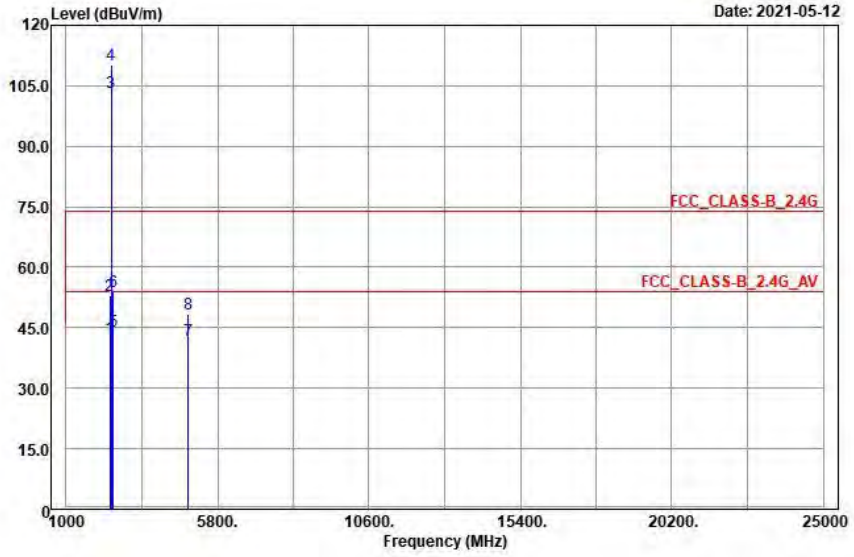
Ch 2	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 6	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	42.87	38.37	4.5	54	-11.13	154	111	Average
2390	52.76	48.26	4.5	74	-21.24	154	111	Peak
2437	105.87	101.28	4.59			154	111	Average
2437	112.43	107.84	4.59			154	111	Peak
2483.5	45.99	41.33	4.66	54	-8.01	154	111	Average
2483.5	55.9	51.24	4.66	74	-18.1	154	111	Peak
4874	41.76	31.55	10.21	54	-12.24	156	206	Average
4874	47.93	37.72	10.21	74	-26.07	156	206	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	42.47	37.97	4.5	54	-11.53	311	83	Average
2390	52.94	48.44	4.5	74	-21.06	311	83	Peak
2437	103.4	98.81	4.59			311	83	Average
2437	110.26	105.67	4.59			311	83	Peak
2483.5	44.27	39.61	4.66	54	-9.73	311	83	Average
2483.5	53.92	49.26	4.66	74	-20.08	311	83	Peak
4874	41.94	31.73	10.21	54	-12.06	124	74	Average
4874	48.54	38.33	10.21	74	-25.46	124	74	Peak

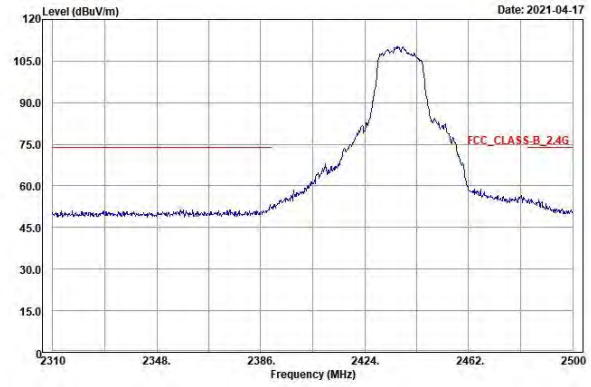
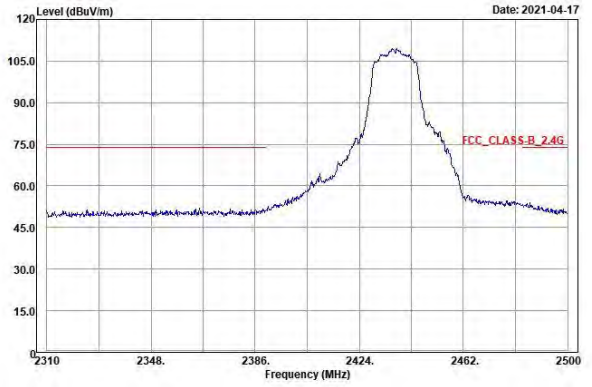
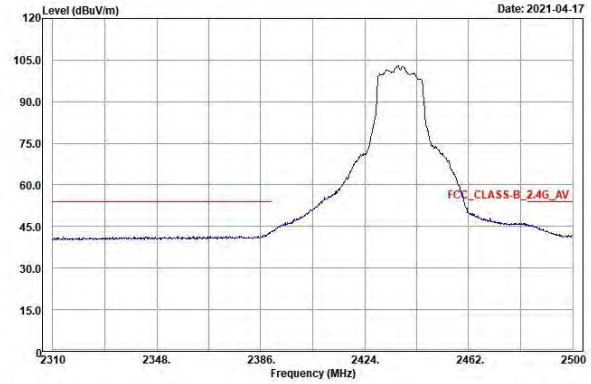
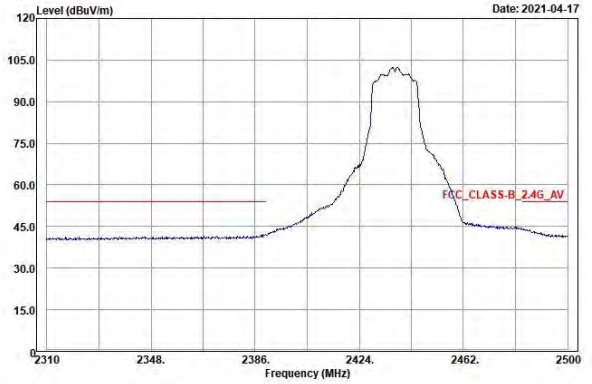
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

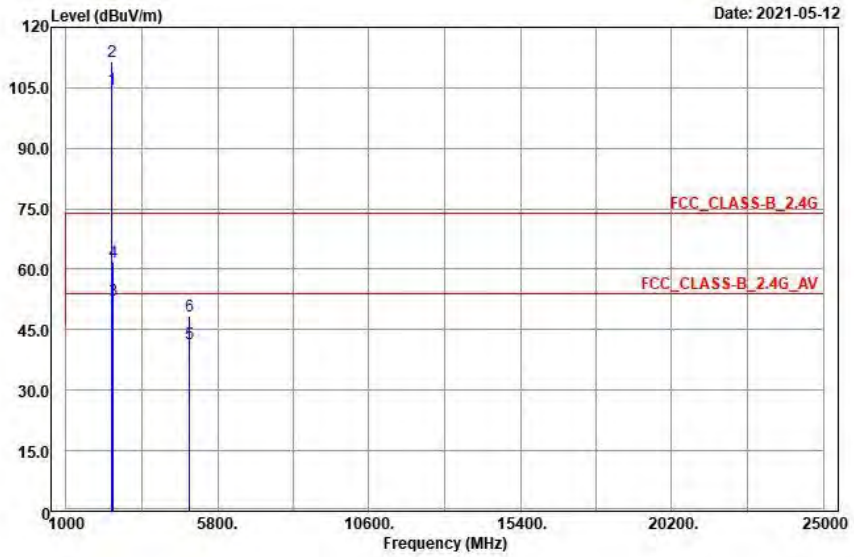
2. 2437 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

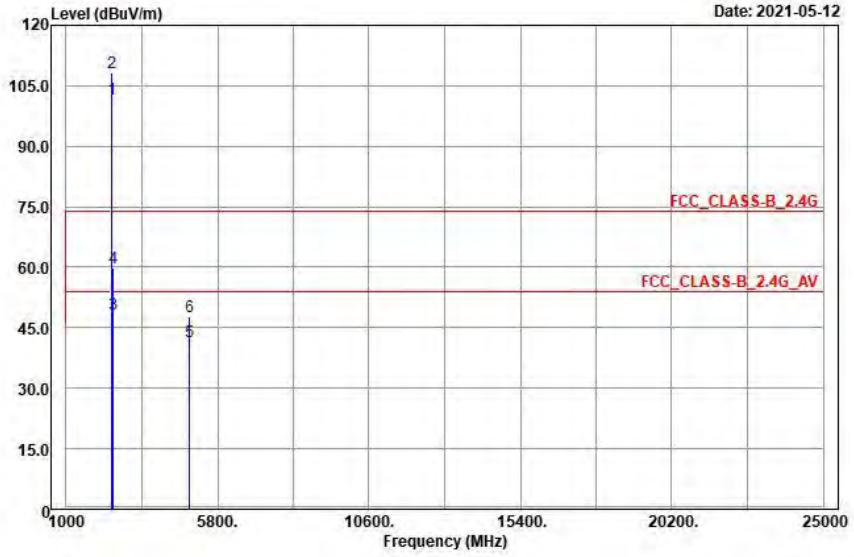
Ch 6	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 10	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	104.48	99.86	4.62			100	116	Average
2457	111.36	106.74	4.62			100	116	Peak
2483.5	52.45	47.79	4.66	54	-1.55	100	116	Average
2483.5	61.91	57.25	4.66	74	-12.09	100	116	Peak
4914	41.49	31.34	10.15	54	-12.51	146	199	Average
4914	48.54	38.39	10.15	74	-25.46	146	199	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	101.53	96.91	4.62			313	71	Average
2457	108.33	103.71	4.62			313	71	Peak
2483.5	48.34	43.68	4.66	54	-5.66	313	71	Average
2483.5	59.94	55.28	4.66	74	-14.06	313	71	Peak
4914	41.4	31.25	10.15	54	-12.6	188	241	Average
4914	47.86	37.71	10.15	74	-26.14	188	241	Peak

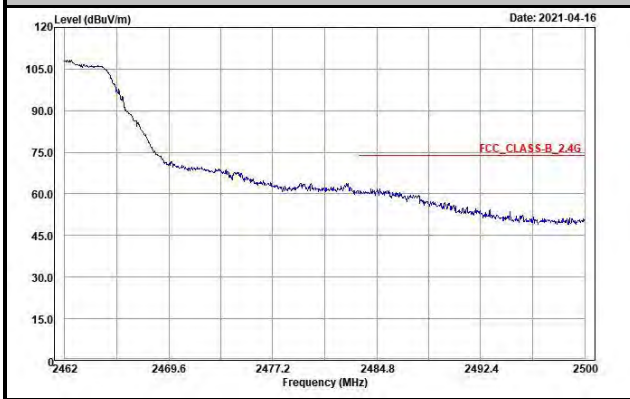
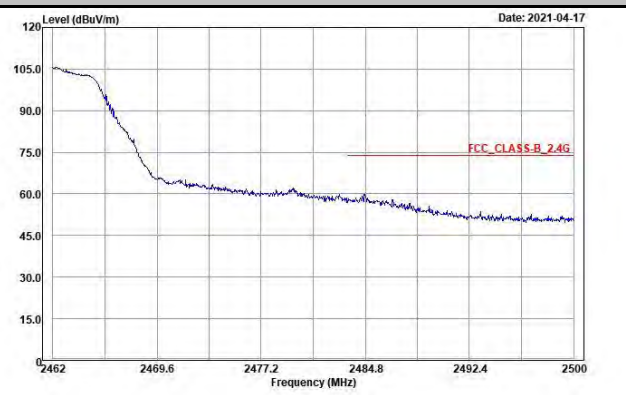
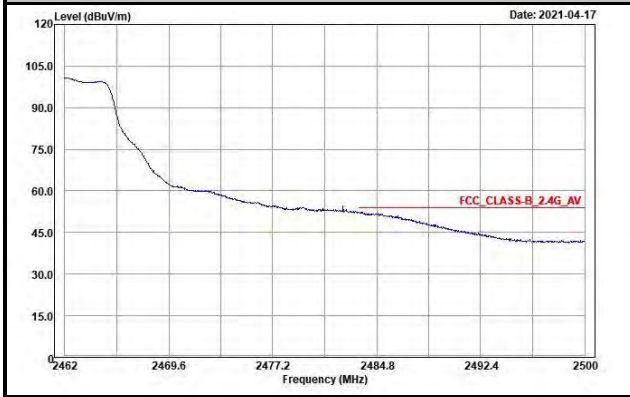
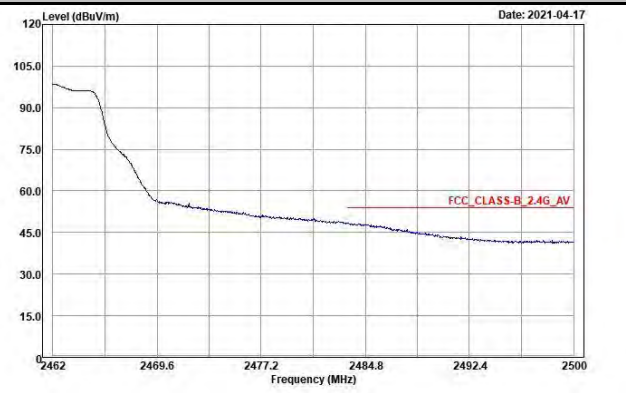
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

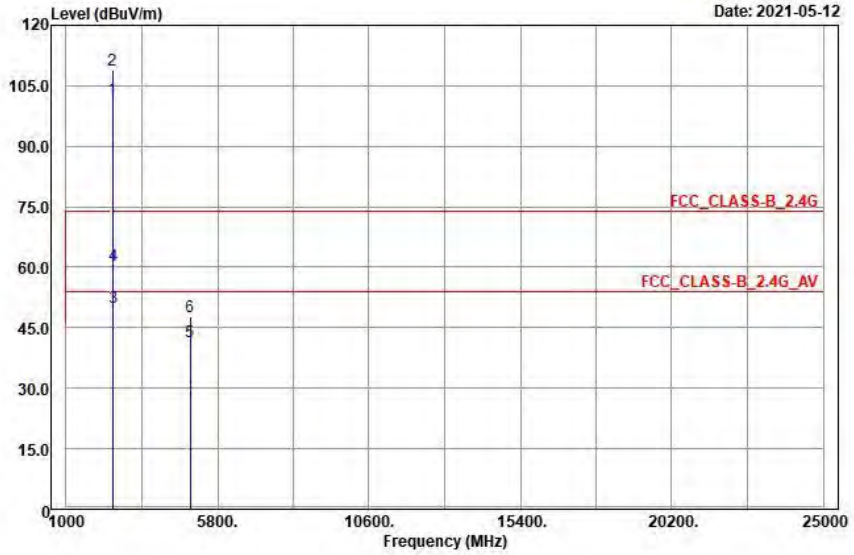
2. 2457 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

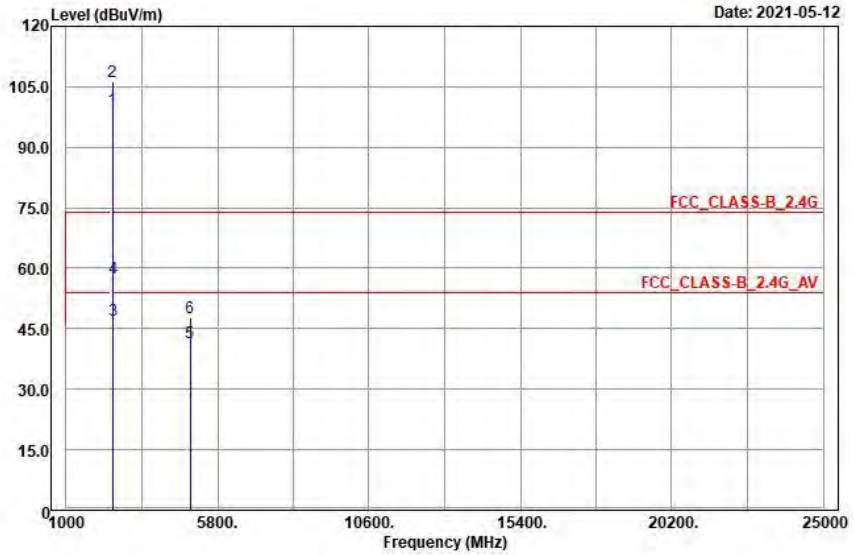
Ch 10	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 11	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2462	101.74	97.12	4.62			100	116	Average
2462	108.97	104.35	4.62			100	116	Peak
2483.5	50.02	45.36	4.66	54	-3.98	100	116	Average
2483.5	60.48	55.82	4.66	74	-13.52	100	116	Peak
4924	41.57	31.32	10.25	54	-12.43	188	195	Average
4924	47.77	37.52	10.25	74	-26.23	188	195	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2462	99.33	94.71	4.62			314	69	Average
2462	106.3	101.68	4.62			314	69	Peak
2483.5	47.19	42.53	4.66	54	-6.81	314	69	Average
2483.5	57.49	52.83	4.66	74	-16.51	314	69	Peak
4924	41.4	31.15	10.25	54	-12.6	185	244	Average
4924	47.85	37.6	10.25	74	-26.15	185	244	Peak

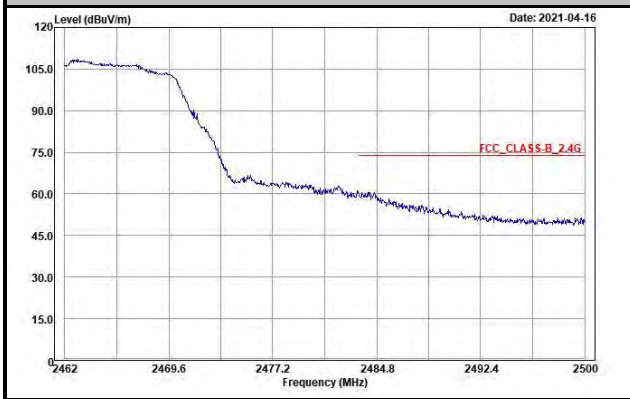
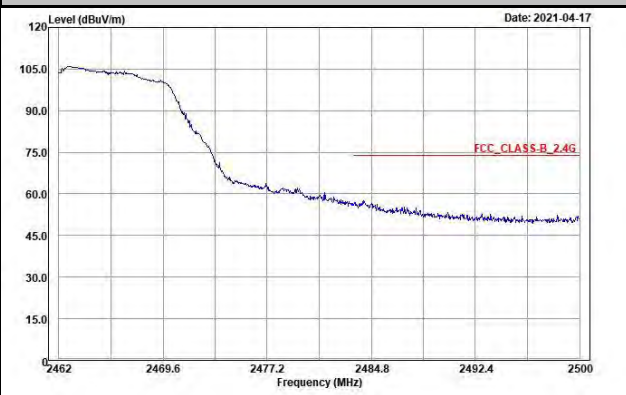
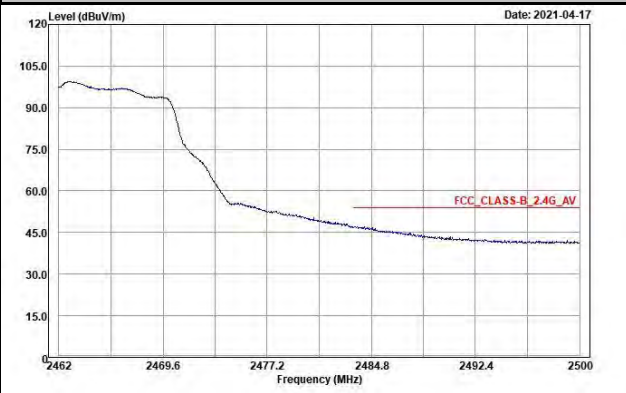
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

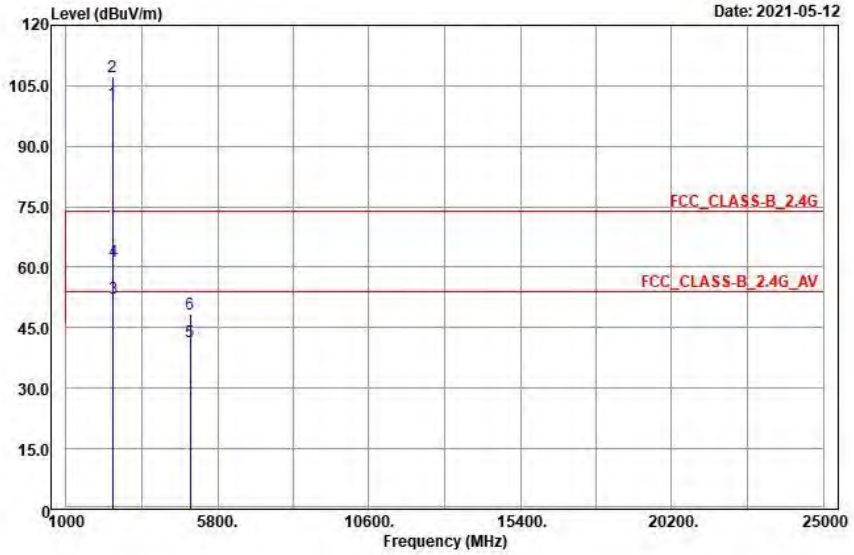
2. 2462 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

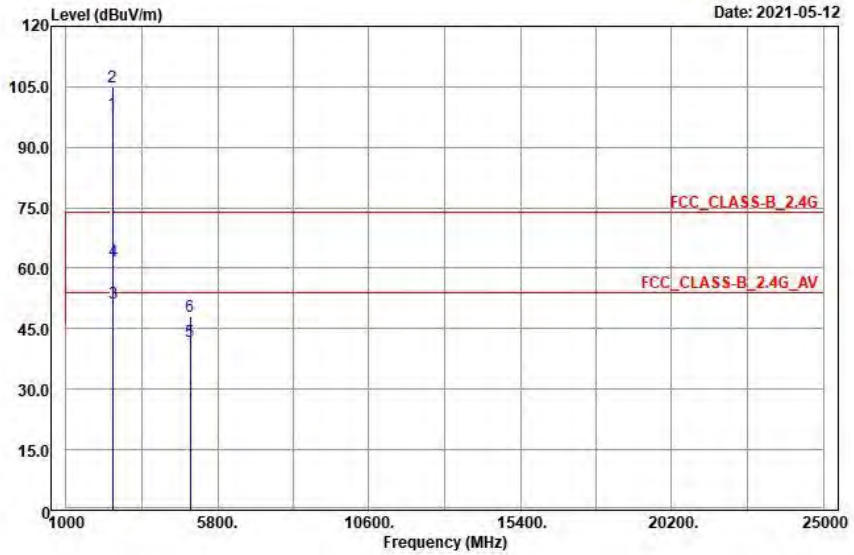
Ch 11	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 12	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2467	100.64	96.01	4.63			100	116	Average
2467	107.11	102.48	4.63			100	116	Peak
2483.5	52.28	47.62	4.66	54	-1.72	100	116	Average
2483.5	61.47	56.81	4.66	74	-12.53	100	116	Peak
4934	41.55	31.29	10.26	54	-12.45	145	227	Average
4934	48.4	38.14	10.26	74	-25.6	145	227	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2467	98.29	93.66	4.63			314	69	Average
2467	105.07	100.44	4.63			314	69	Peak
2483.5	51.26	46.6	4.66	54	-2.74	314	69	Average
2483.5	61.66	57	4.66	74	-12.34	314	69	Peak
4934	41.71	31.45	10.26	54	-12.29	121	254	Average
4934	47.96	37.7	10.26	74	-26.04	121	254	Peak

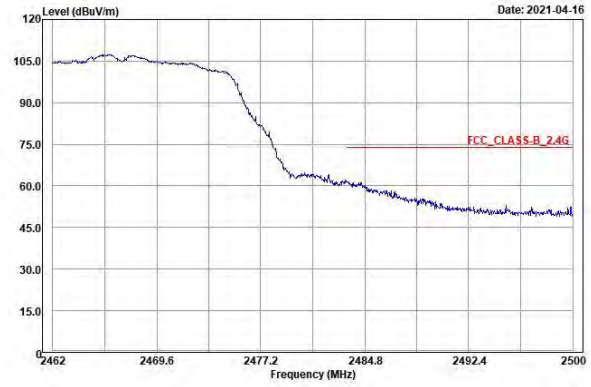
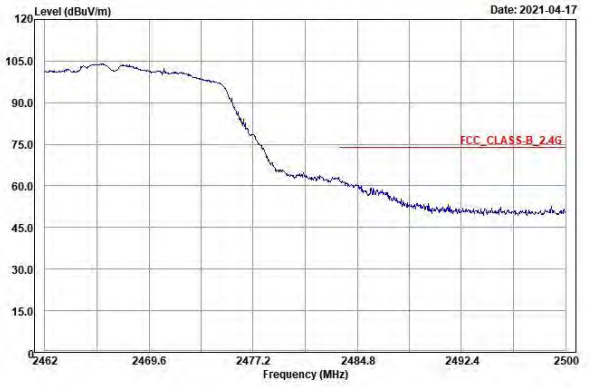
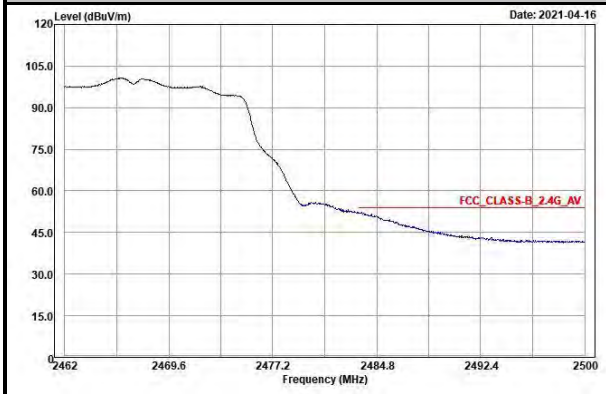
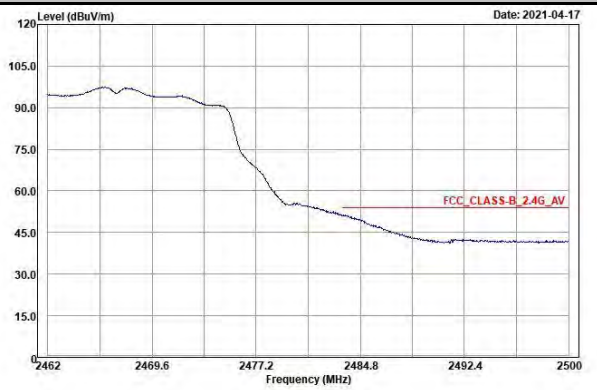
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

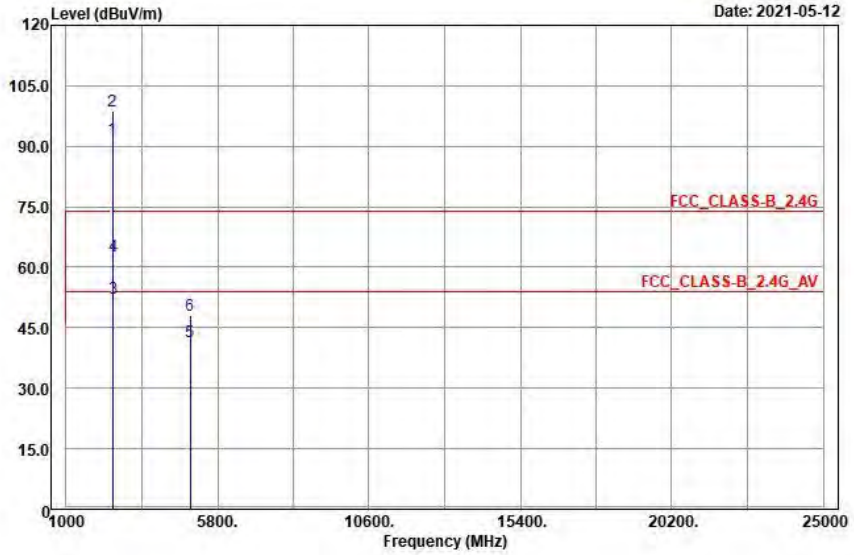
2. 2467 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

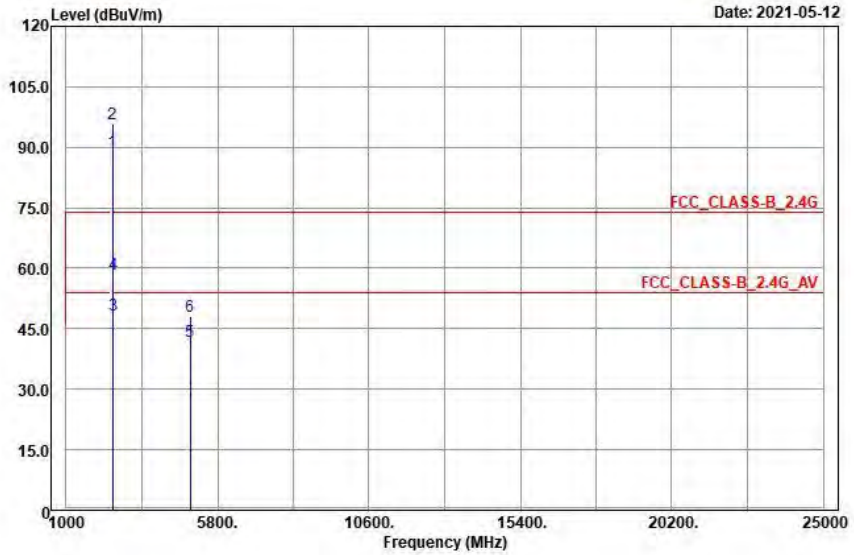
Ch 12	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 13	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2472	91.88	87.24	4.64			132	116	Average
2472	98.58	93.94	4.64			132	116	Peak
2483.5	52.45	47.79	4.66	54	-1.55	132	116	Average
2483.5	62.63	57.97	4.66	74	-11.37	132	116	Peak
4944	41.65	31.3	10.35	54	-12.35	145	301	Average
4944	47.9	37.55	10.35	74	-26.1	145	301	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2472	88.85	84.21	4.64			314	69	Average
2472	95.68	91.04	4.64			314	69	Peak
2483.5	48.29	43.63	4.66	54	-5.71	314	69	Average
2483.5	58.65	53.99	4.66	74	-15.35	314	69	Peak
4944	41.84	31.49	10.35	54	-12.16	188	252	Average
4944	48.09	37.74	10.35	74	-25.91	188	252	Peak

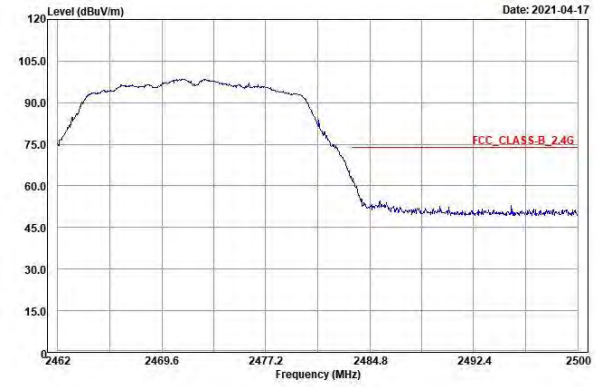
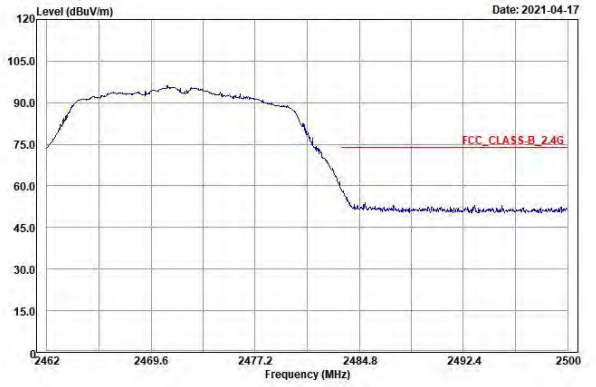
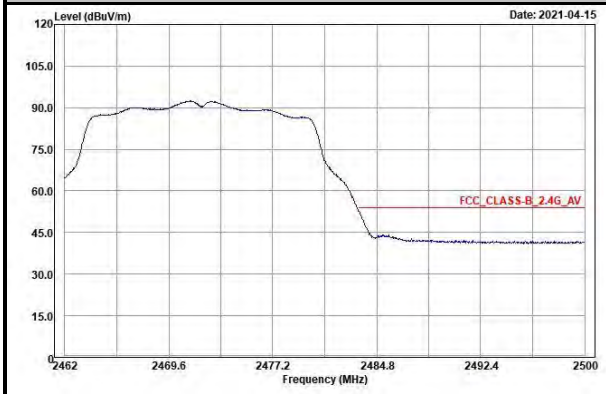
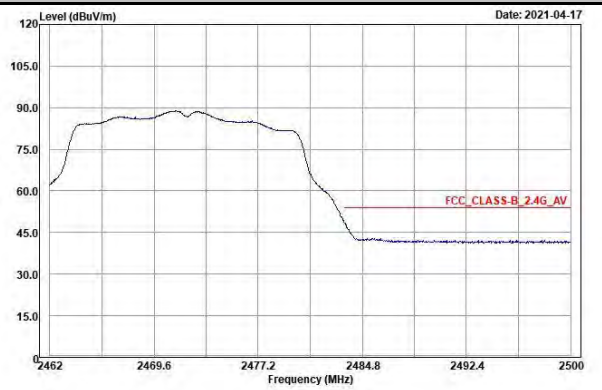
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

2. 2472 MHz: Fundamental Frequency.

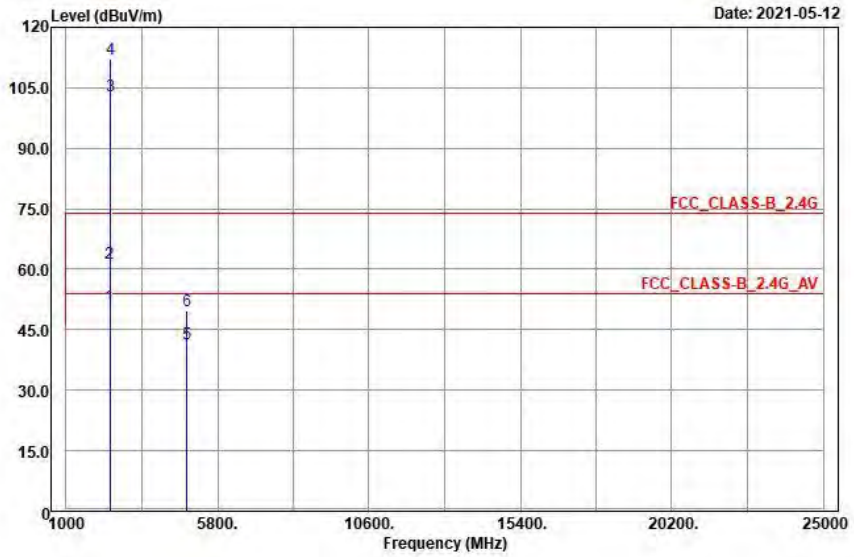
3. The other emission levels were very low against the limit.

Ch 13	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

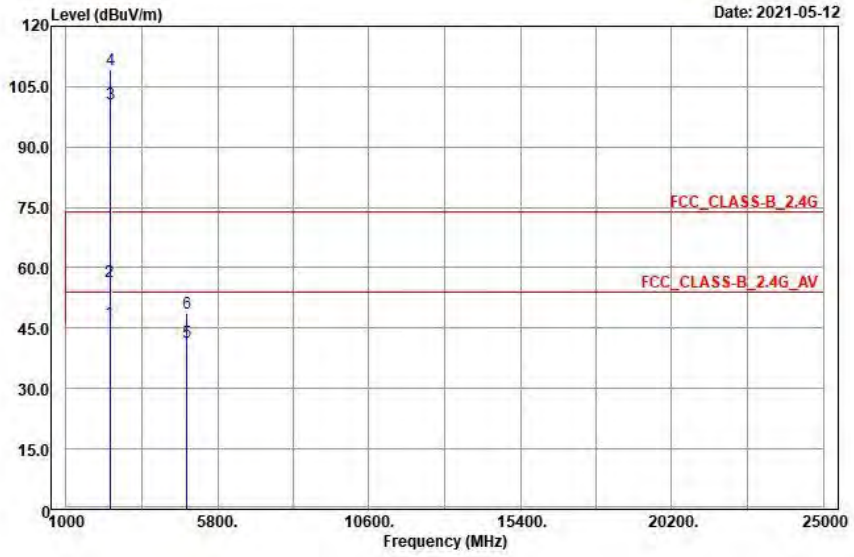
802.11n (VHT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 1	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



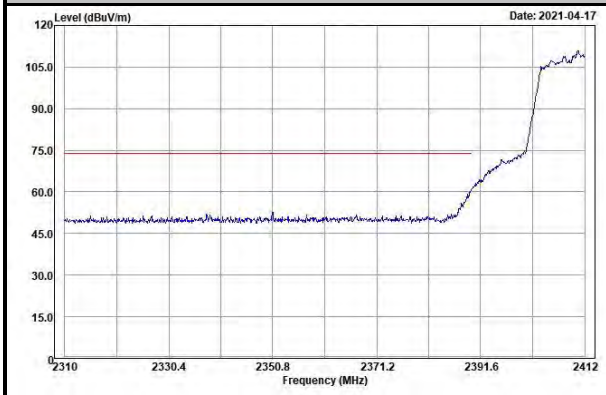
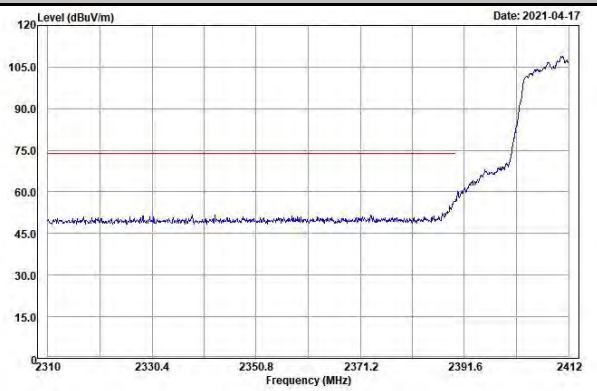
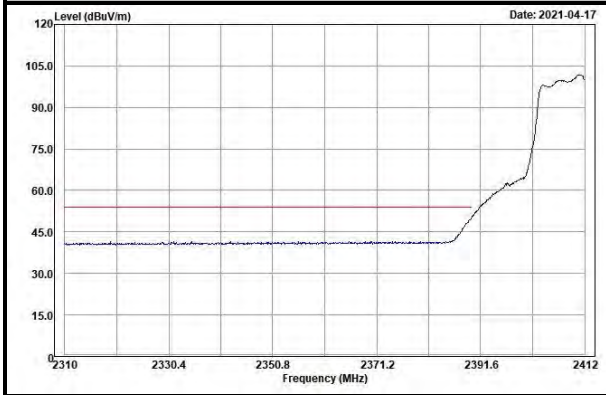
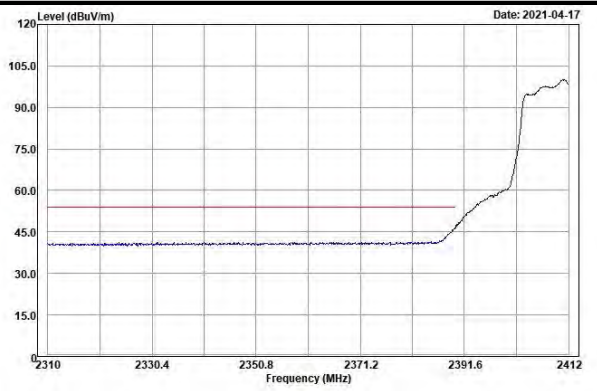
Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	51.11	46.61	4.5	54	-2.89	128	113	Average
2390	61.45	56.95	4.5	74	-12.55	128	113	Peak
2412	103.12	98.57	4.55			128	113	Average
2412	112.18	107.63	4.55			128	113	Peak
4824	41.6	31.31	10.29	54	-12.4	185	78	Average
4824	49.6	39.31	10.29	74	-24.4	185	78	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	46.51	42.01	4.5	54	-7.49	304	83	Average
2390	56.57	52.07	4.5	74	-17.43	304	83	Peak
2412	100.63	96.08	4.55			304	83	Average
2412	109.3	104.75	4.55			304	83	Peak
4824	41.49	31.2	10.29	54	-12.51	148	156	Average
4824	48.57	38.28	10.29	74	-25.43	148	156	Peak

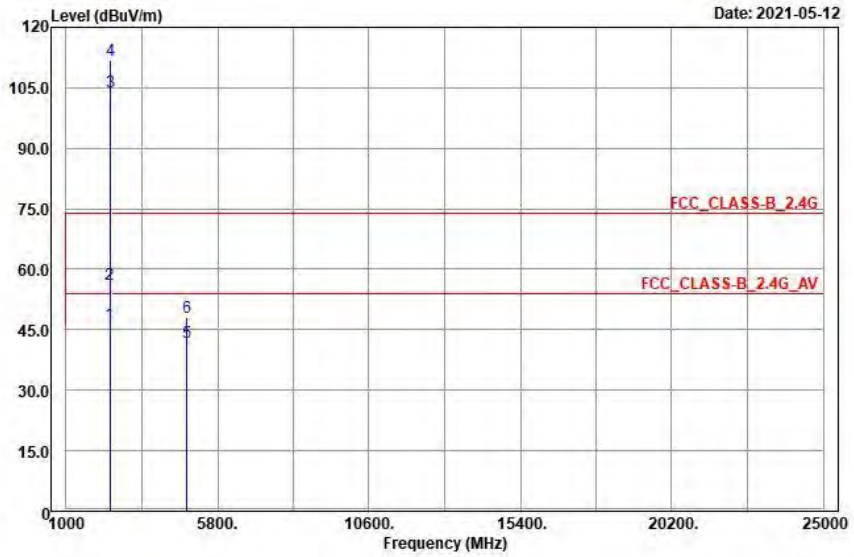
Remarks:

1. Emission Level = Read Level + Factor
   Margin Value = Emission Level – Limit value
2. 2412 MHz: Fundamental Frequency.
3. The other emission levels were very low against the limit.

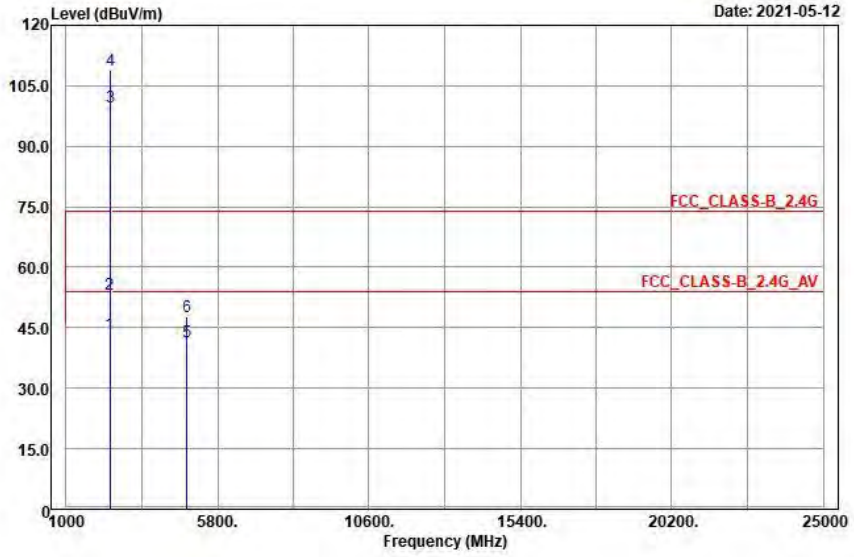
Ch 1	
Peak	
Horizontal	**Vertical**
	
Average	
Horizontal	**Vertical**
	

EUT Test Condition		Measurement Detail	
Channel	Channel 2	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	46.47	41.97	4.5	54	-7.53	154	111	Average
2390	56.21	51.71	4.5	74	-17.79	154	111	Peak
2417	103.95	99.41	4.54			154	111	Average
2417	111.93	107.39	4.54			154	111	Peak
4834	41.74	31.45	10.29	54	-12.26	182	119	Average
4834	48.18	37.89	10.29	74	-25.82	182	119	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	43.55	39.05	4.5	54	-10.45	304	83	Average
2390	53.44	48.94	4.5	74	-20.56	304	83	Peak
2417	99.68	95.14	4.54			304	83	Average
2417	108.72	104.18	4.54			304	83	Peak
4834	41.49	31.2	10.29	54	-12.51	148	114	Average
4834	47.78	37.49	10.29	74	-26.22	148	114	Peak

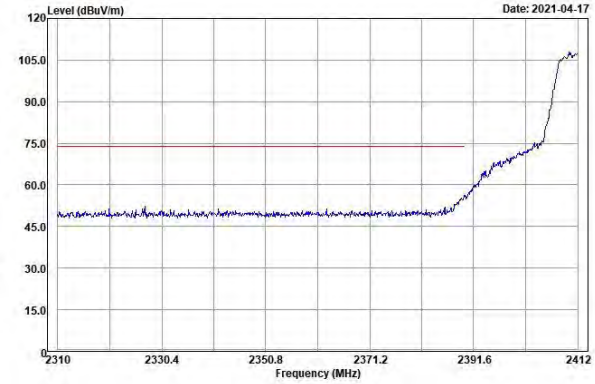
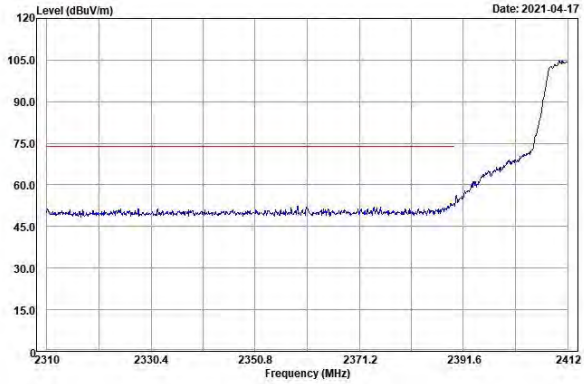
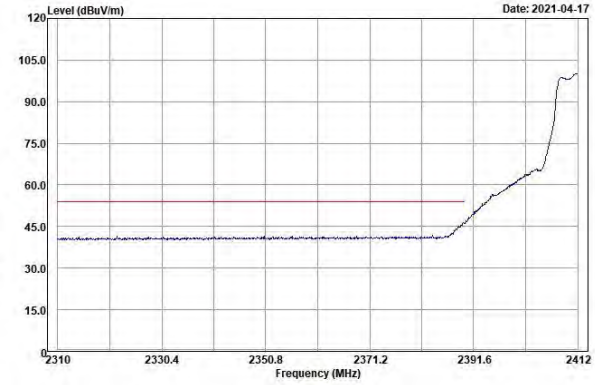
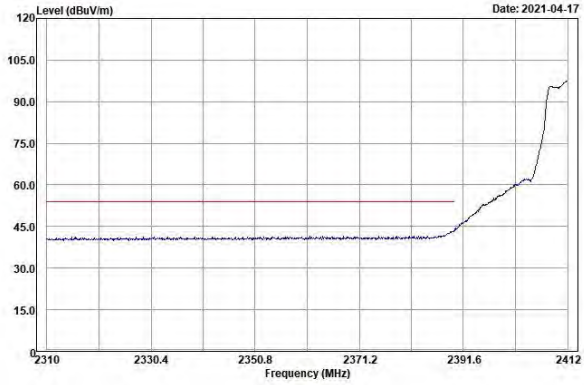
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

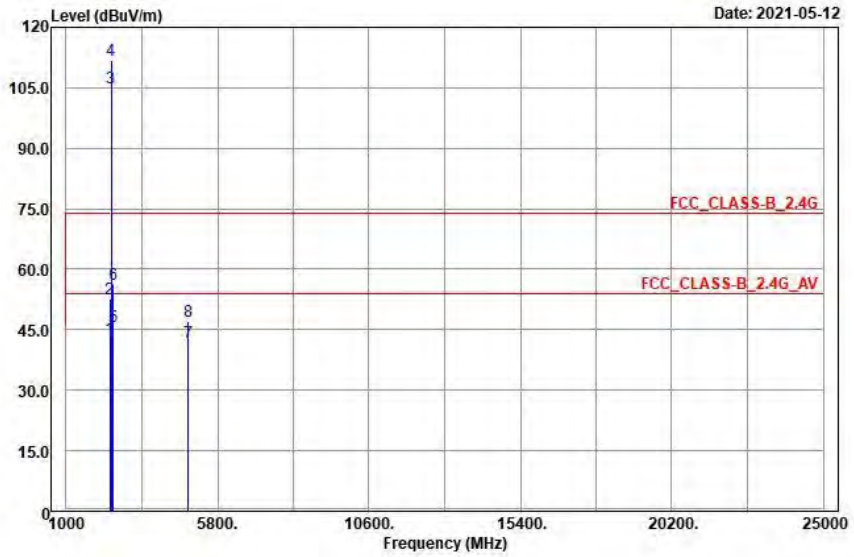
2. 2417 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

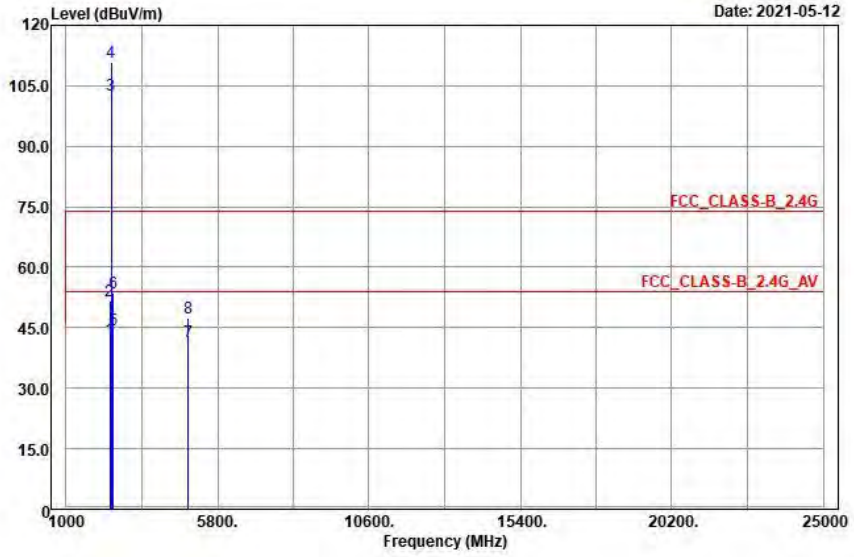
Ch 2	
Peak	
Horizontal	**Vertical**
	
Average	
Horizontal	**Vertical**
	

EUT Test Condition		Measurement Detail	
Channel	Channel 6	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	42.9	38.4	4.5	54	-11.1	154	111	Average
2390	52.68	48.18	4.5	74	-21.32	154	111	Peak
2437	104.81	100.22	4.59			154	111	Average
2437	111.94	107.35	4.59			154	111	Peak
2483.5	45.91	41.25	4.66	54	-8.09	154	111	Average
2483.5	56.35	51.69	4.66	74	-17.65	154	111	Peak
4874	41.72	31.51	10.21	54	-12.28	111	24	Average
4874	47.09	36.88	10.21	74	-26.91	111	24	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	42.2	37.7	4.5	54	-11.8	322	83	Average
2390	51.73	47.23	4.5	74	-22.27	322	83	Peak
2437	102.75	98.16	4.59			322	83	Average
2437	110.87	106.28	4.59			322	83	Peak
2483.5	44.44	39.78	4.66	54	-9.56	322	83	Average
2483.5	53.61	48.95	4.66	74	-20.39	322	83	Peak
4874	41.65	31.44	10.21	54	-12.35	145	5	Average
4874	47.5	37.29	10.21	74	-26.5	145	5	Peak

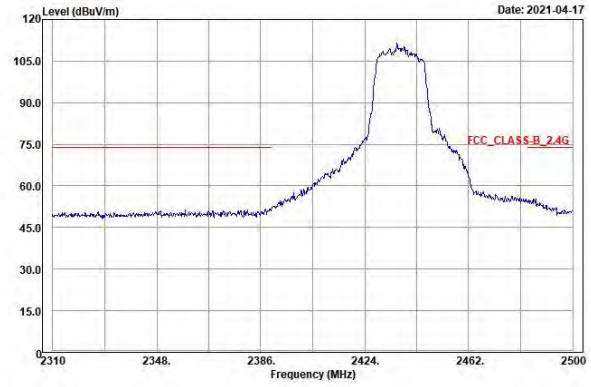
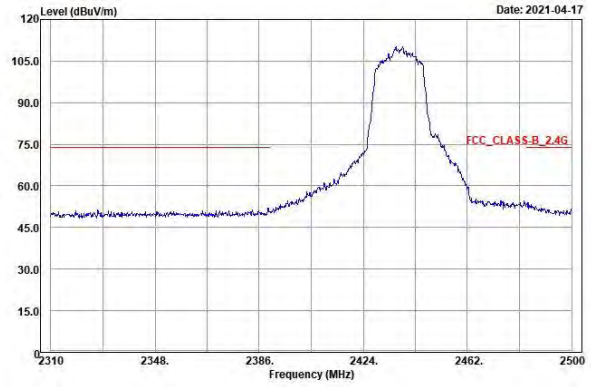
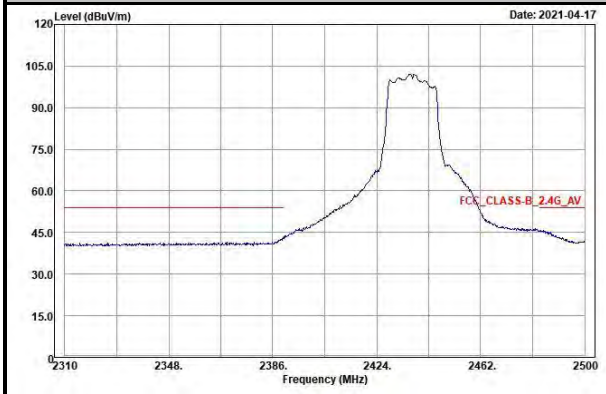
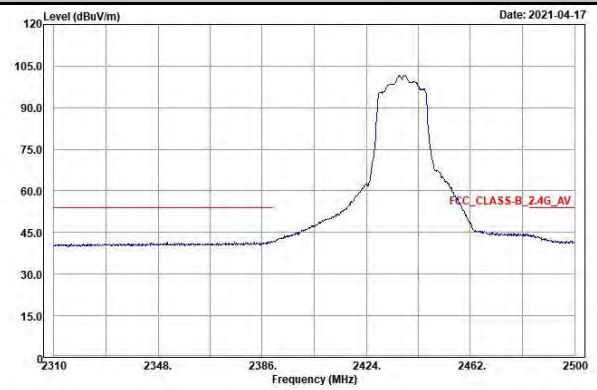
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

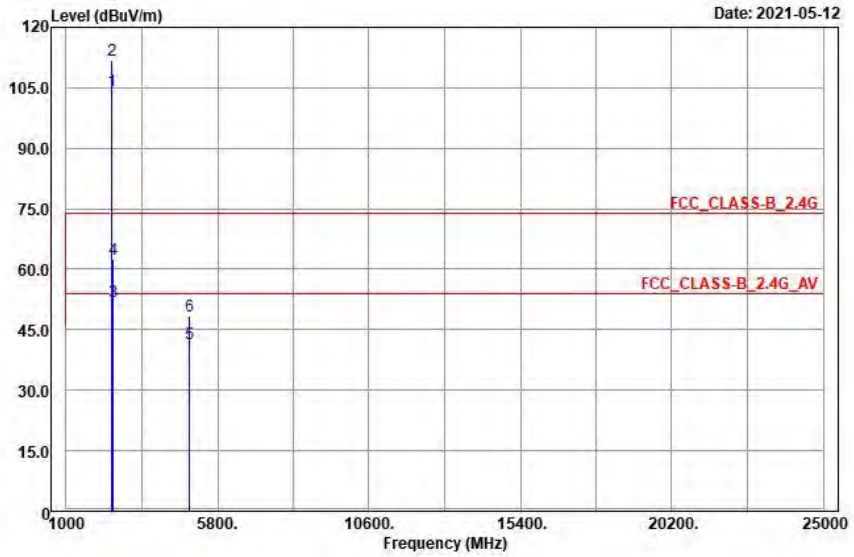
2. 2437 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

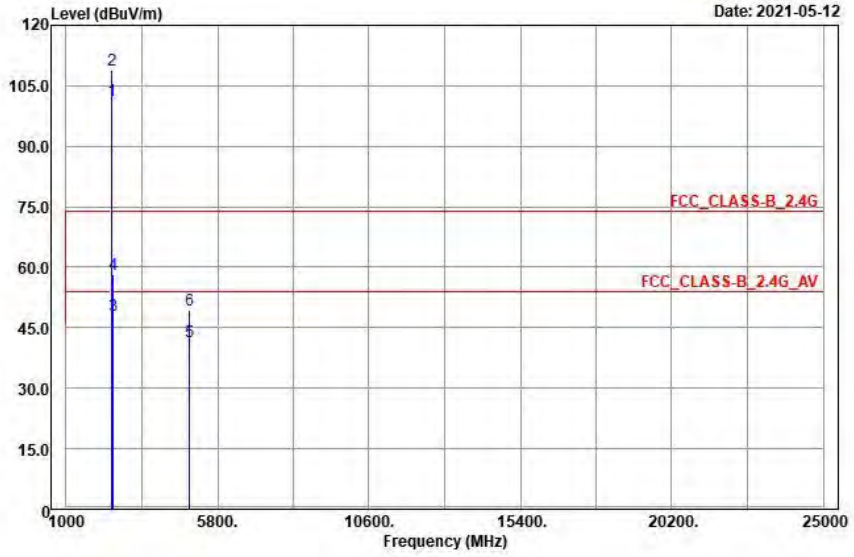
Ch 6	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 10	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	104.37	99.75	4.62			100	116	Average
2457	111.9	107.28	4.62			100	116	Peak
2483.5	51.92	47.26	4.66	54	-2.08	100	116	Average
2483.5	62.53	57.87	4.66	74	-11.47	100	116	Peak
4914	41.49	31.34	10.15	54	-12.51	158	88	Average
4914	48.45	38.3	10.15	74	-25.55	158	88	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	101.24	96.62	4.62			322	83	Average
2457	108.9	104.28	4.62			322	83	Peak
2483.5	48.09	43.43	4.66	54	-5.91	322	83	Average
2483.5	58.33	53.67	4.66	74	-15.67	322	83	Peak
4914	41.4	31.25	10.15	54	-12.6	188	241	Average
4914	49.24	39.09	10.15	74	-24.76	188	241	Peak

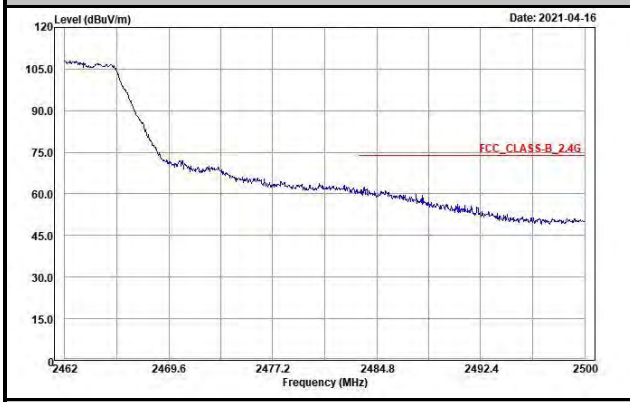
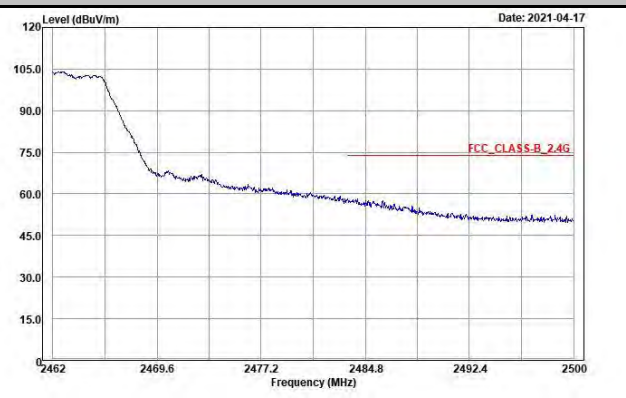
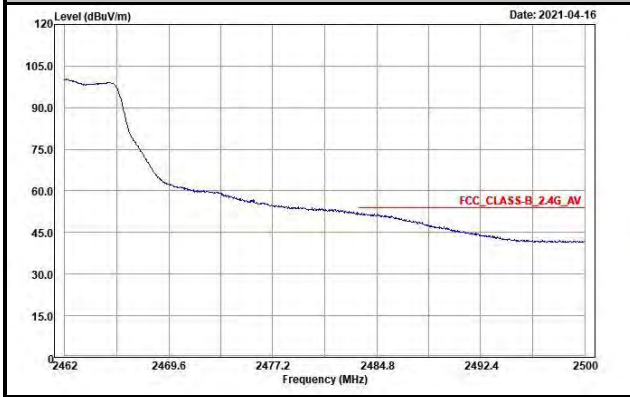
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

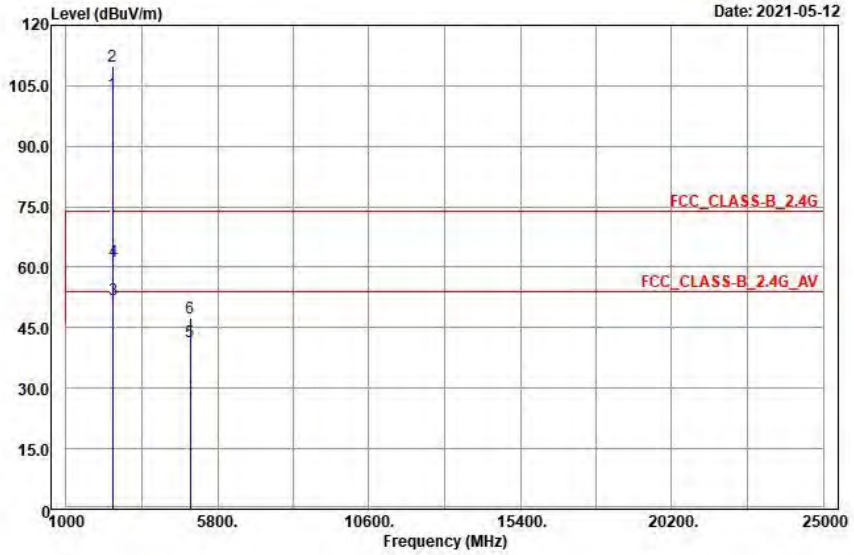
2. 2457 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

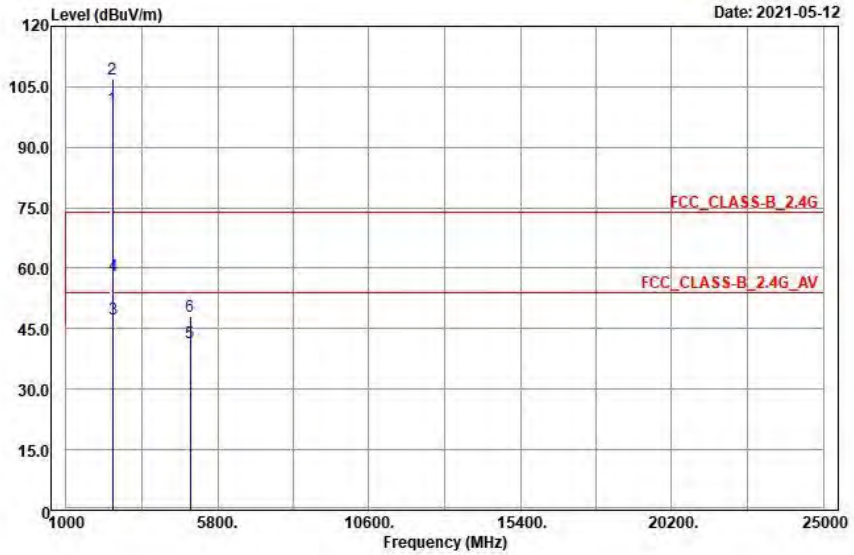
Ch 10	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 11	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2462	102.98	98.36	4.62			100	116	Average
2462	109.95	105.33	4.62			100	116	Peak
2483.5	51.84	47.18	4.66	54	-2.16	100	116	Average
2483.5	61.44	56.78	4.66	74	-12.56	100	116	Peak
4924	41.54	31.29	10.25	54	-12.46	168	99	Average
4924	47.57	37.32	10.25	74	-26.43	168	99	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2462	99.89	95.27	4.62			322	83	Average
2462	106.8	102.18	4.62			322	83	Peak
2483.5	47.4	42.74	4.66	54	-6.6	322	83	Average
2483.5	58.22	53.56	4.66	74	-15.78	322	83	Peak
4924	41.67	31.42	10.25	54	-12.33	125	55	Average
4924	47.96	37.71	10.25	74	-26.04	125	55	Peak

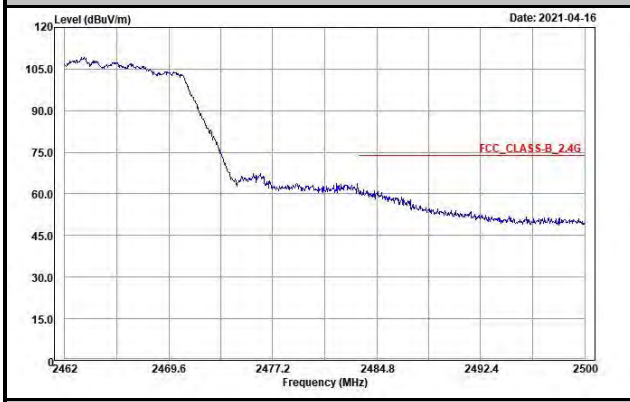
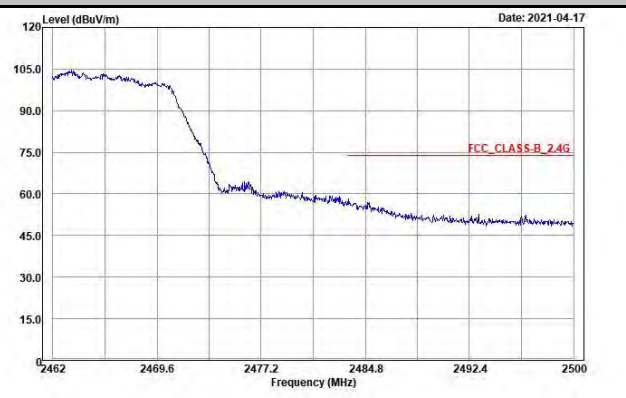
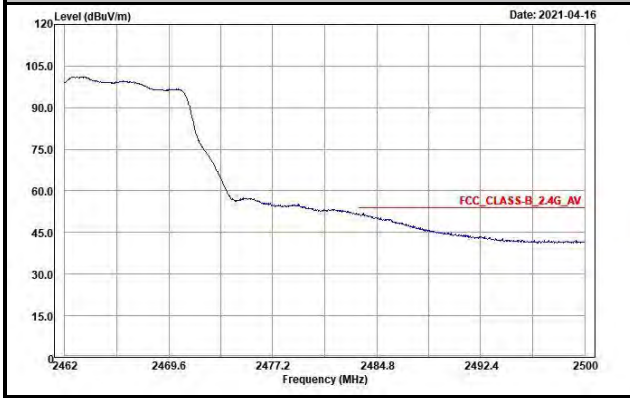
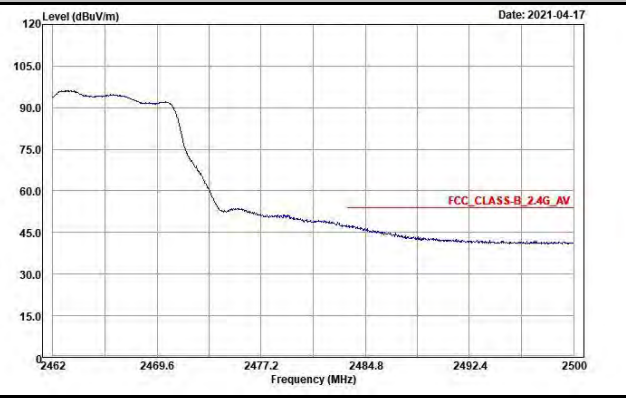
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

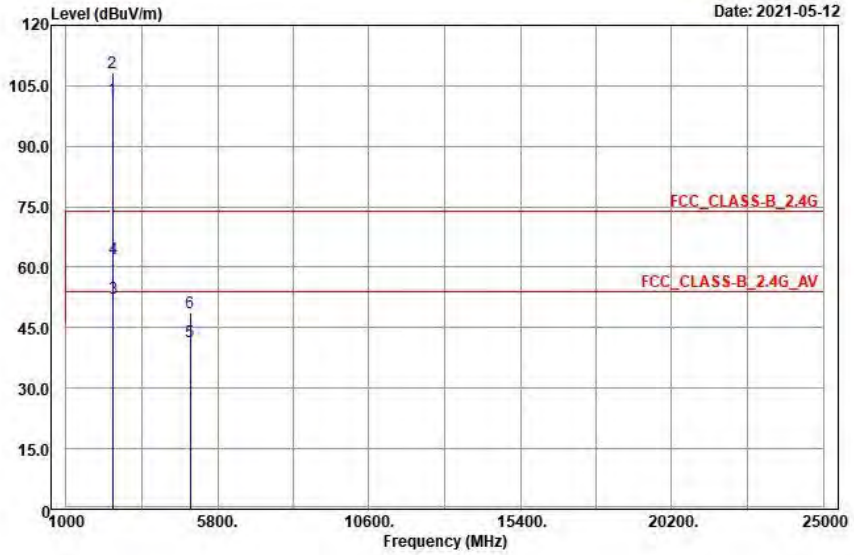
2. 2462 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

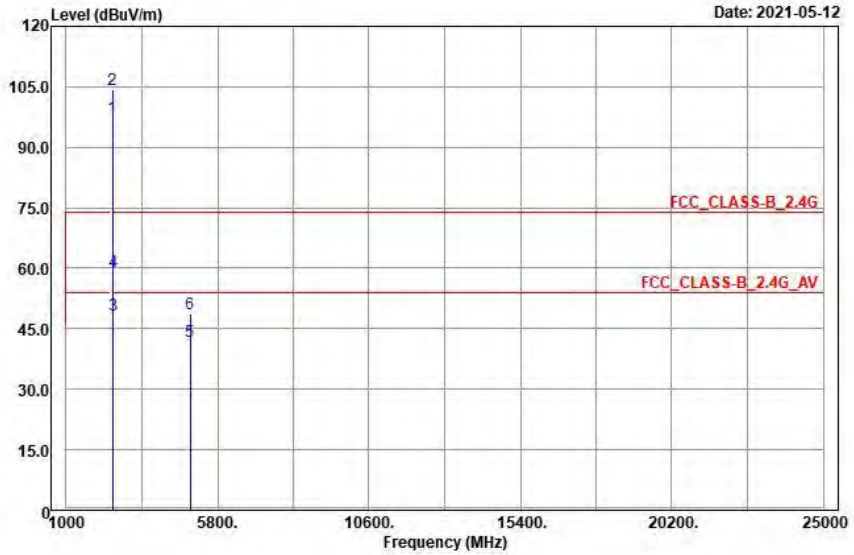
Ch 11	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 12	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2467	101.64	97.01	4.63			100	116	Average
2467	108.31	103.68	4.63			100	116	Peak
2483.5	52.31	47.65	4.66	54	-1.69	100	116	Average
2483.5	62.09	57.43	4.66	74	-11.91	100	116	Peak
4934	41.68	31.42	10.26	54	-12.32	158	55	Average
4934	48.73	38.47	10.26	74	-25.27	158	55	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2467	97.57	92.94	4.63			322	83	Average
2467	104.4	99.77	4.63			322	83	Peak
2483.5	48.47	43.81	4.66	54	-5.53	322	83	Average
2483.5	59.23	54.57	4.66	74	-14.77	322	83	Peak
4934	41.73	31.47	10.26	54	-12.27	128	247	Average
4934	48.69	38.43	10.26	74	-25.31	128	247	Peak

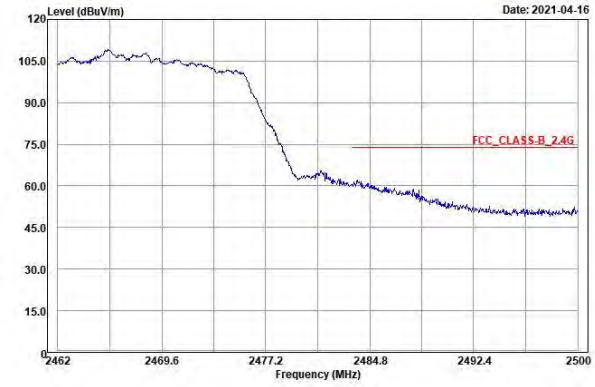
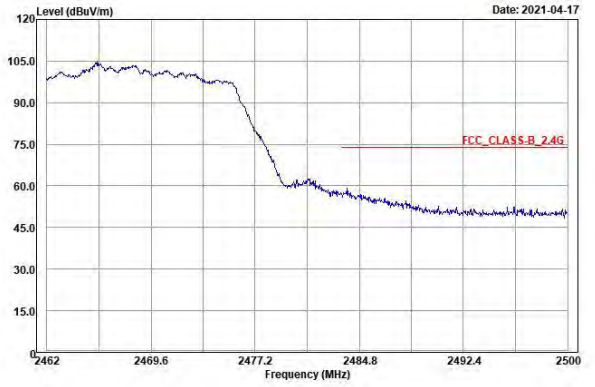
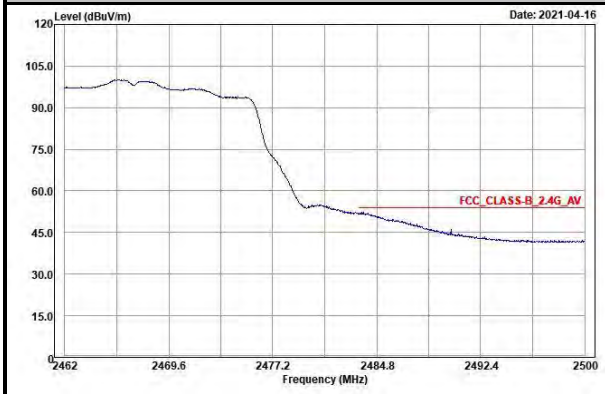
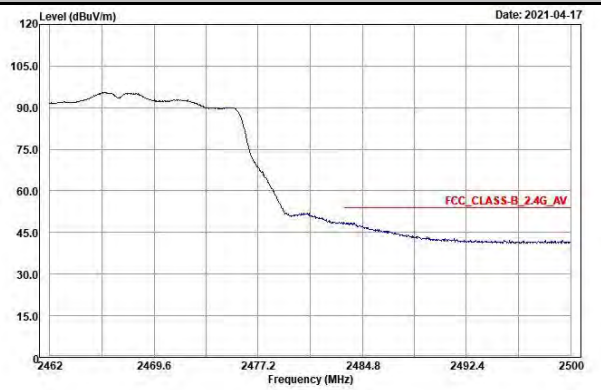
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

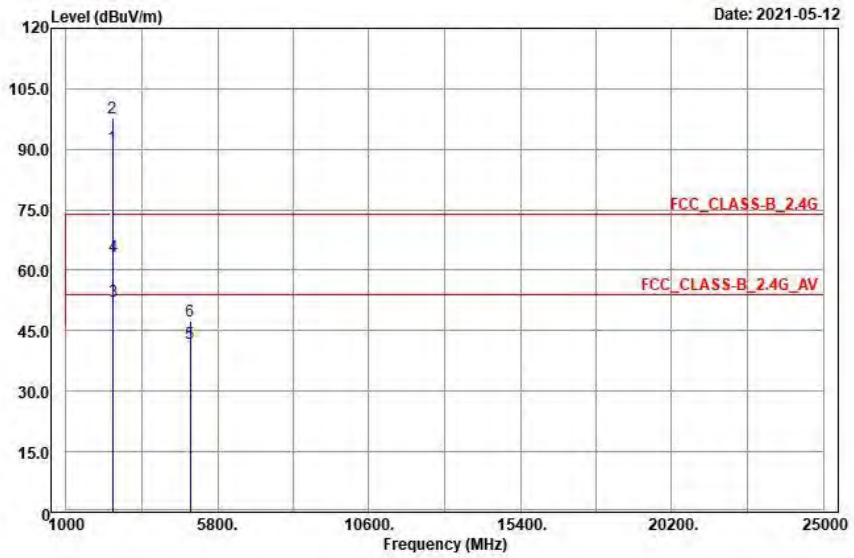
2. 2467 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

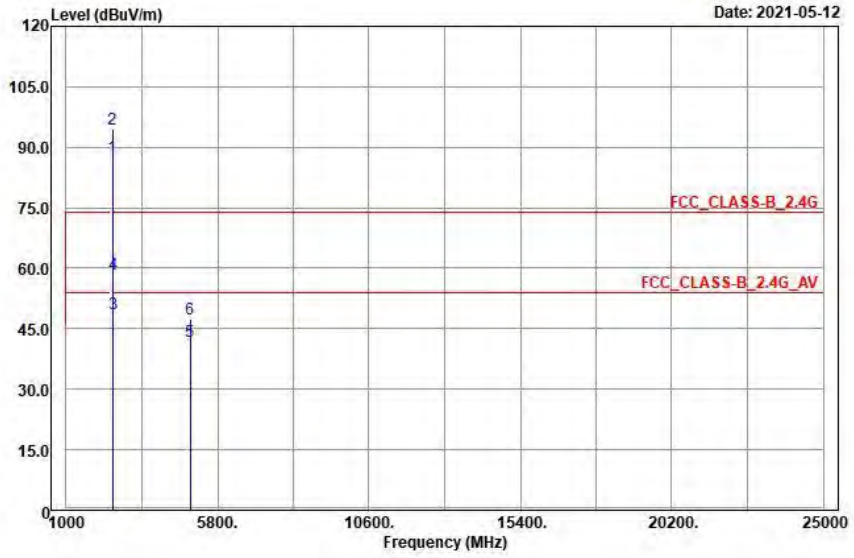
Ch 12	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 13	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2472	90.65	86.01	4.64			100	115	Average
2472	97.76	93.12	4.64			100	115	Peak
2483.5	52.47	47.81	4.66	54	-1.53	100	115	Average
2483.5	63.5	58.84	4.66	74	-10.5	100	115	Peak
4944	41.87	31.52	10.35	54	-12.13	188	245	Average
4944	47.38	37.03	10.35	74	-26.62	188	245	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2472	87.56	82.92	4.64			322	83	Average
2472	94.59	89.95	4.64			322	83	Peak
2483.5	48.76	44.1	4.66	54	-5.24	322	83	Average
2483.5	58.5	53.84	4.66	74	-15.5	322	83	Peak
4944	41.77	31.42	10.35	54	-12.23	125	54	Average
4944	47.49	37.14	10.35	74	-26.51	125	54	Peak

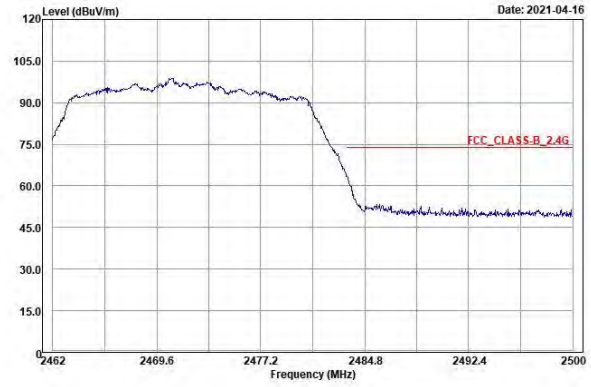
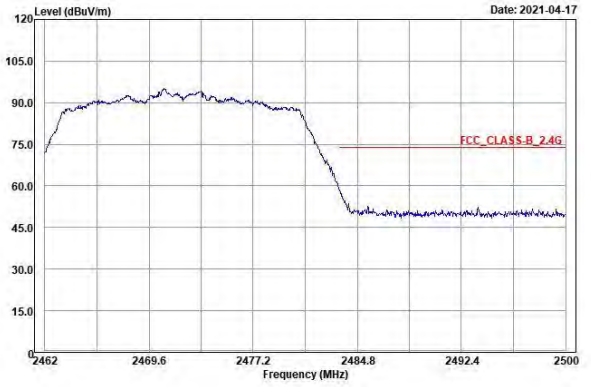
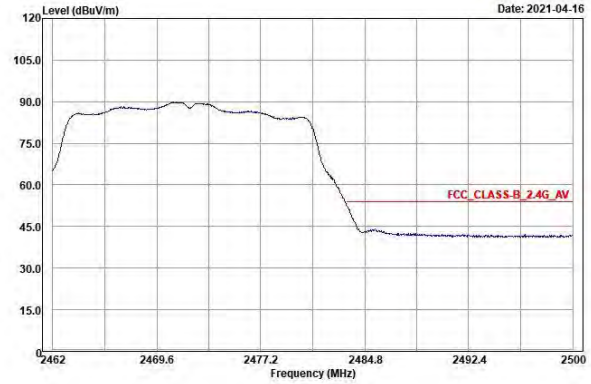
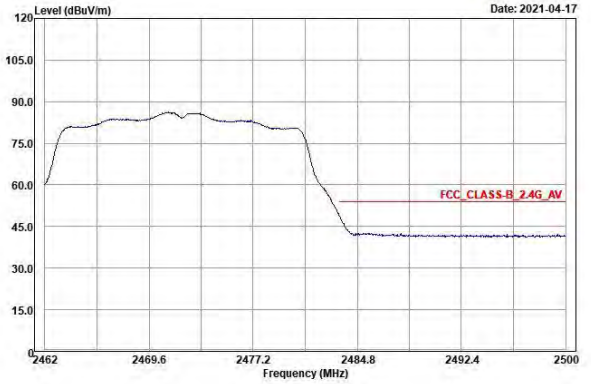
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

2. 2472 MHz: Fundamental Frequency.

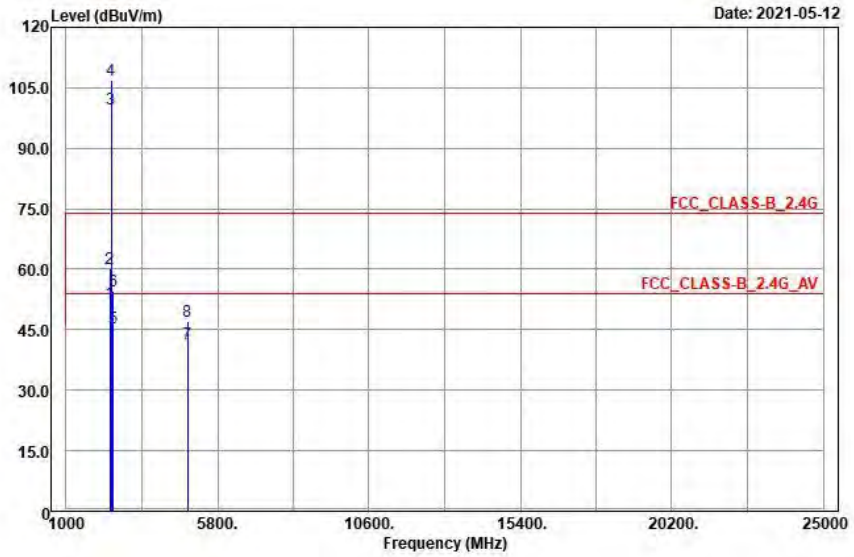
3. The other emission levels were very low against the limit.

Ch 13	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

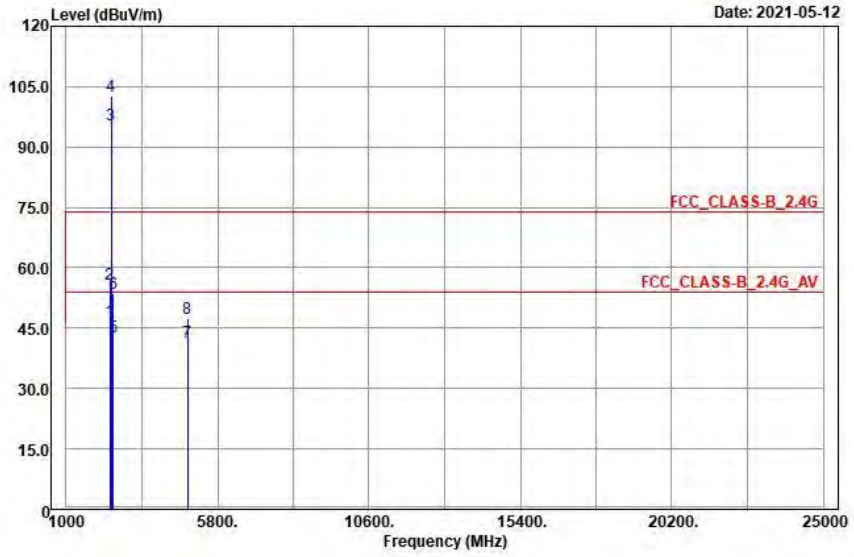
802.11n (VHT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 3	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	51.57	47.07	4.5	54	-2.43	118	113	Average
2390	60.23	55.73	4.5	74	-13.77	118	113	Peak
2422	99.64	95.08	4.56			118	113	Average
2422	106.88	102.32	4.56			118	113	Peak
2483.5	45.47	40.81	4.66	54	-8.53	118	113	Average
2483.5	54.51	49.85	4.66	74	-19.49	118	113	Peak
4844	41.52	31.29	10.23	54	-12.48	159	85	Average
4844	47.15	36.92	10.23	74	-26.85	159	85	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	46.86	42.36	4.5	54	-7.14	304	83	Average
2390	55.88	51.38	4.5	74	-18.12	304	83	Peak
2422	95.48	90.92	4.56			304	83	Average
2422	102.72	98.16	4.56			304	83	Peak
2483.5	42.91	38.25	4.66	54	-11.09	304	83	Average
2483.5	53.62	48.96	4.66	74	-20.38	304	83	Peak
4844	41.64	31.41	10.23	54	-12.36	142	145	Average
4844	47.53	37.3	10.23	74	-26.47	142	145	Peak

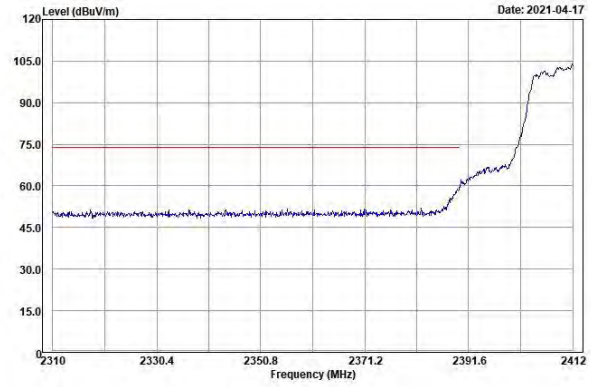
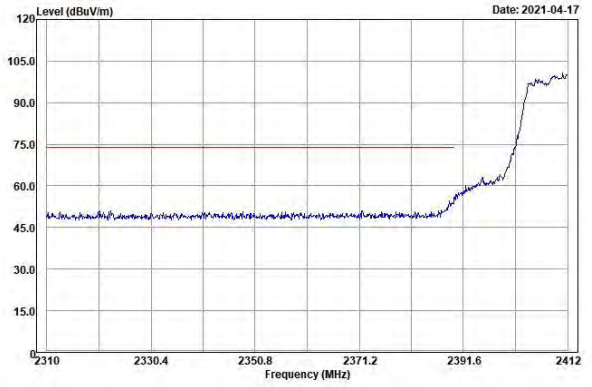
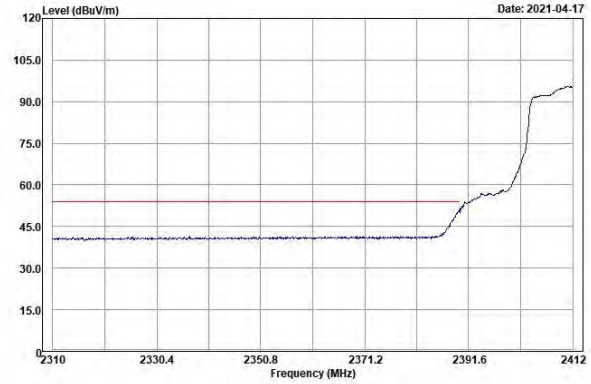
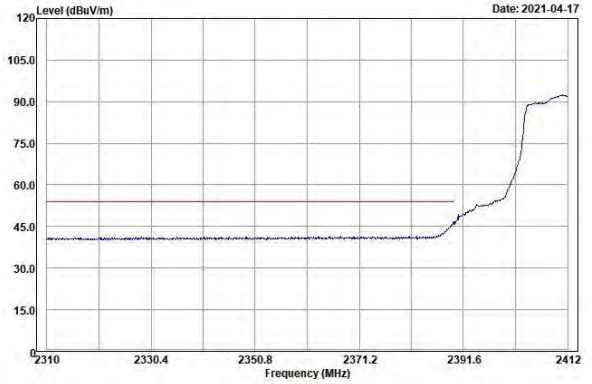
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

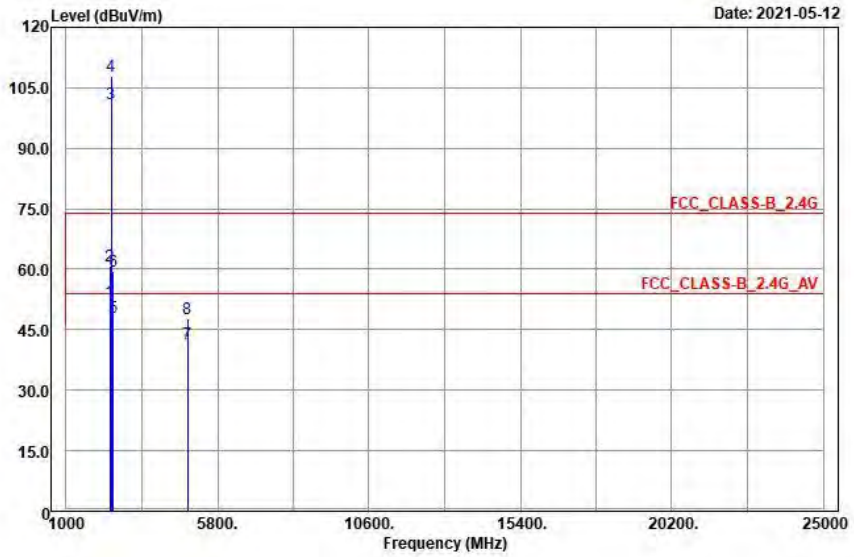
2. 2422 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

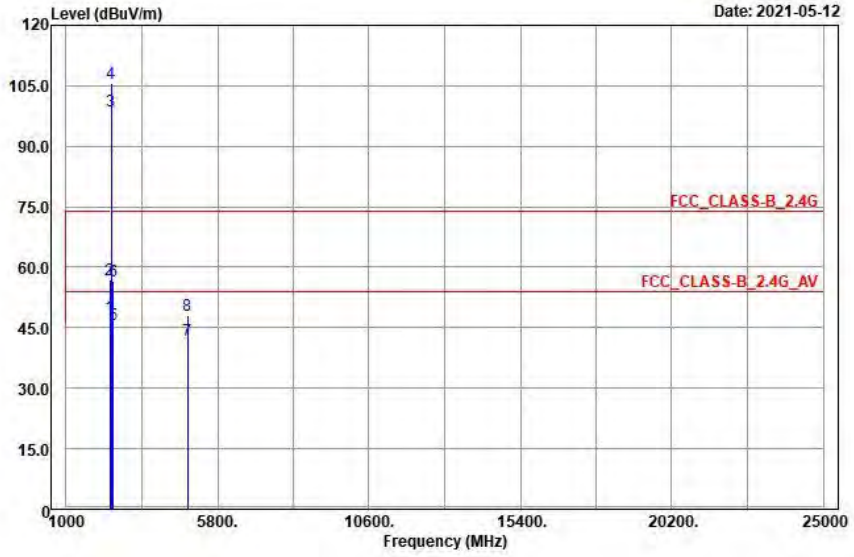
Ch 3	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 4	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	52.1	47.6	4.5	54	-1.9	118	113	Average
2390	60.7	56.2	4.5	74	-13.3	118	113	Peak
2427	101.19	96.63	4.56			118	113	Average
2427	108	103.44	4.56			118	113	Peak
2483.5	48.02	43.36	4.66	54	-5.98	118	113	Average
2483.5	59.53	54.87	4.66	74	-14.47	118	113	Peak
4854	41.55	31.32	10.23	54	-12.45	158	88	Average
4854	47.75	37.52	10.23	74	-26.25	158	88	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	47.76	43.26	4.5	54	-6.24	304	83	Average
2390	56.81	52.31	4.5	74	-17.19	304	83	Peak
2427	98.67	94.11	4.56			304	83	Average
2427	105.66	101.1	4.56			304	83	Peak
2483.5	45.77	41.11	4.66	54	-8.23	304	83	Average
2483.5	56.54	51.88	4.66	74	-17.46	304	83	Peak
4854	41.77	31.54	10.23	54	-12.23	118	52	Average
4854	47.94	37.71	10.23	74	-26.06	118	52	Peak

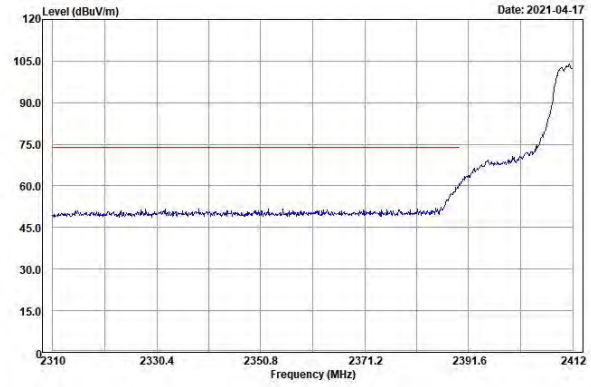
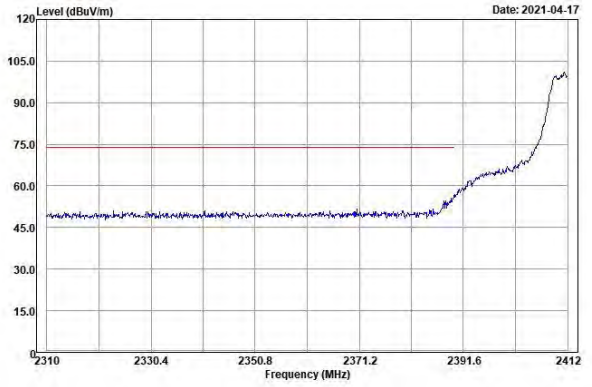
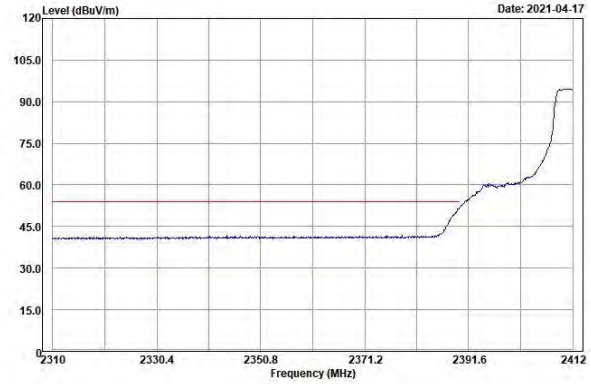
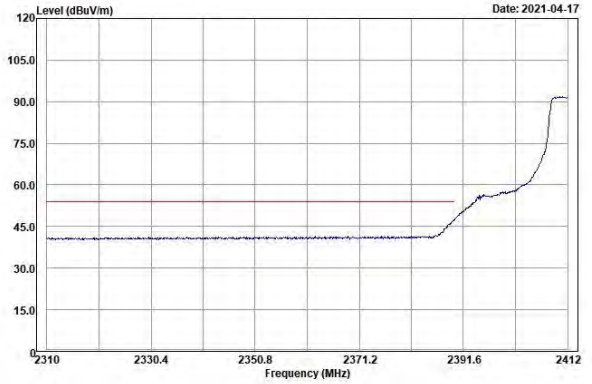
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

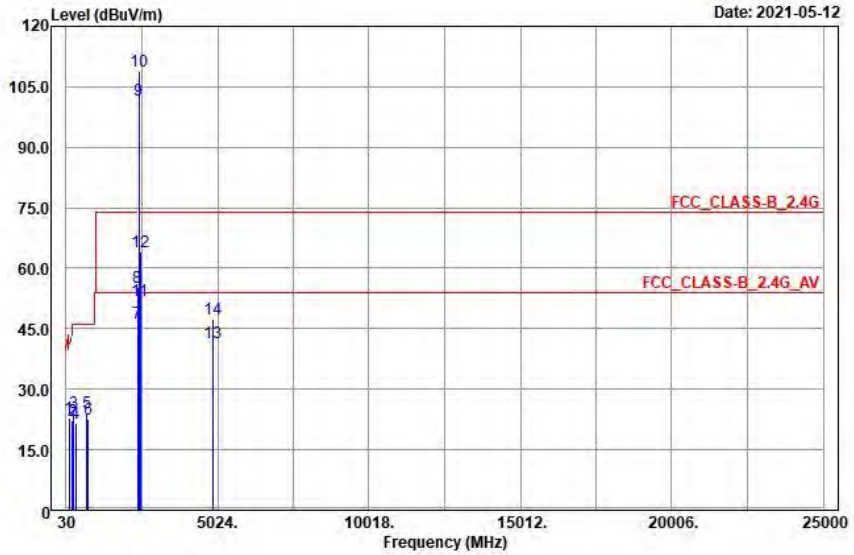
2. 2427 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

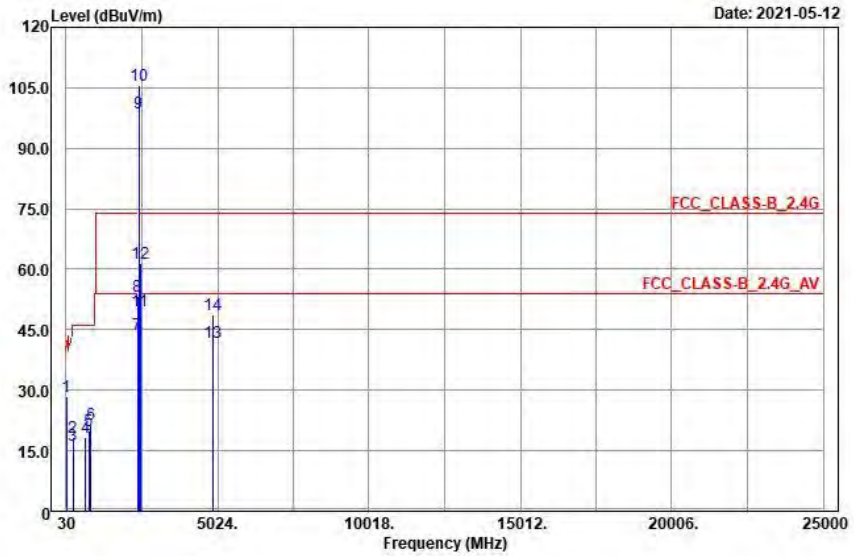
Ch 4	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 6	**Frequency Range**	30 MHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Above 1 GHz:Peak (PK)& Average(AV) Below 1 GHz:Peak (PK) or Quasi-Peak(QP)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
118.83	22.83	42.04	-19.21	43.5	-20.67	105	341	QP
246.27	22.2	39.11	-16.91	46	-23.8	115	241	QP
285.96	24.16	40.42	-16.26	46	-21.84	154	188	QP
354.6	21.5	36.16	-14.66	46	-24.5	155	254	QP
721.4	24.13	32.92	-8.79	46	-21.87	196	32	QP
762.7	22.69	30.93	-8.24	46	-23.31	105	225	QP
2390	46.54	42.04	4.5	54	-7.46	100	115	Average
2390	55.24	50.74	4.5	74	-18.76	100	115	Peak
2437	101.65	97.06	4.59			100	115	Average
2437	108.94	104.35	4.59			100	115	Peak
2483.5	52.05	47.39	4.66	54	-1.95	100	115	Average
2483.5	64.24	59.58	4.66	74	-9.76	100	115	Peak
4874	41.49	31.28	10.21	54	-12.51	147	355	Average
4874	47.39	37.18	10.21	74	-26.61	147	355	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
48.9	28.5	43.64	-15.14	40	-11.5	105	189	QP
250.32	18.18	35.01	-16.83	46	-27.82	121	154	QP
266.79	16.35	32.92	-16.57	46	-29.65	154	266	QP
673.1	18.16	27.75	-9.59	46	-27.84	154	155	QP
769.7	19.93	28.19	-8.26	46	-26.07	178	185	QP
846	21.58	28.45	-6.87	46	-24.42	105	209	QP
2390	43.74	39.24	4.5	54	-10.26	304	83	Average
2390	53.42	48.92	4.5	74	-20.58	304	83	Peak
2437	98.59	94	4.59			304	83	Average
2437	105.62	101.03	4.59			304	83	Peak
2483.5	49.82	45.16	4.66	54	-4.18	304	83	Average
2483.5	61.37	56.71	4.66	74	-12.63	304	83	Peak
4874	41.7	31.49	10.21	54	-12.3	199	256	Average
4874	48.73	38.52	10.21	74	-25.27	199	256	Peak

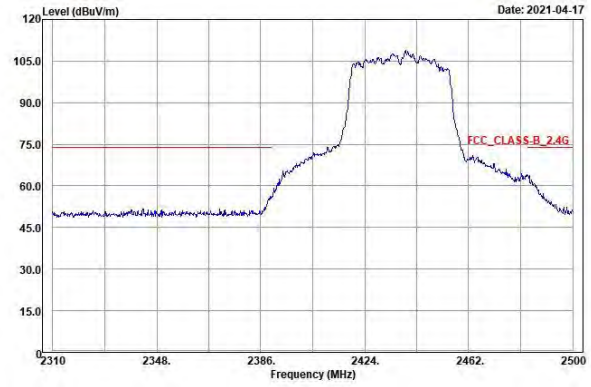
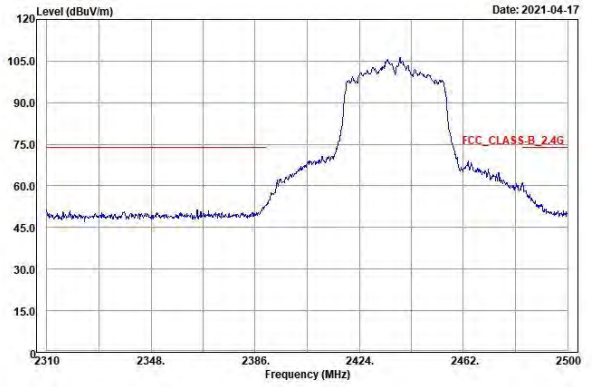
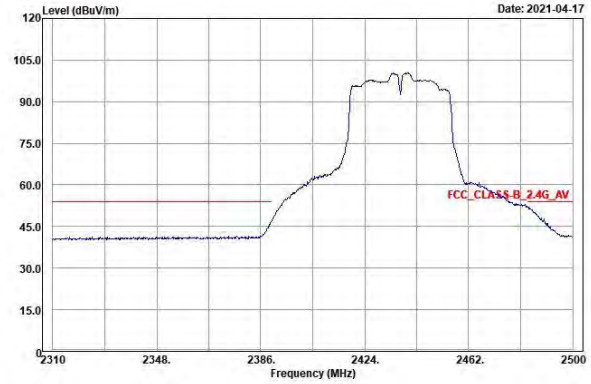
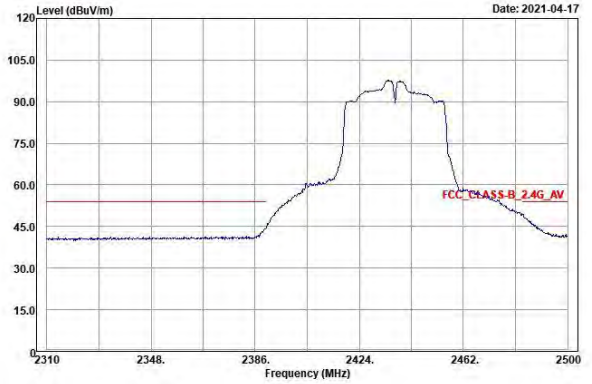
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

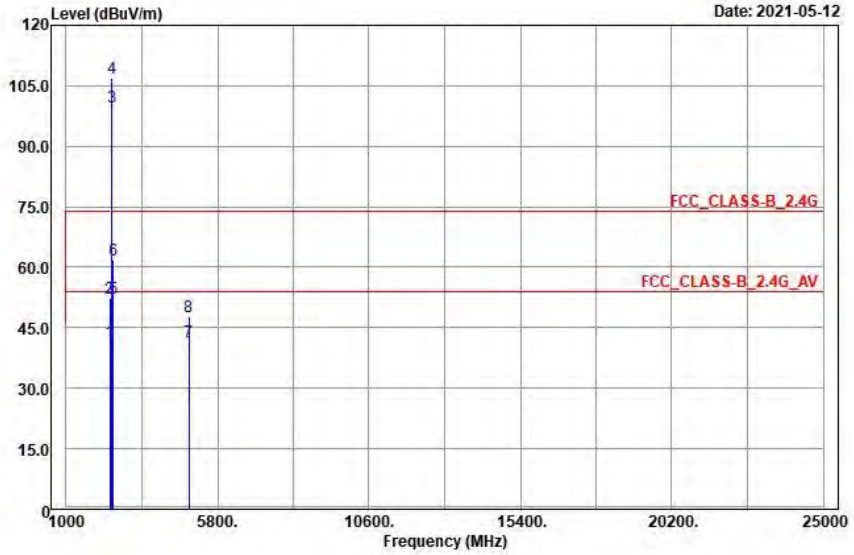
2. 2437 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

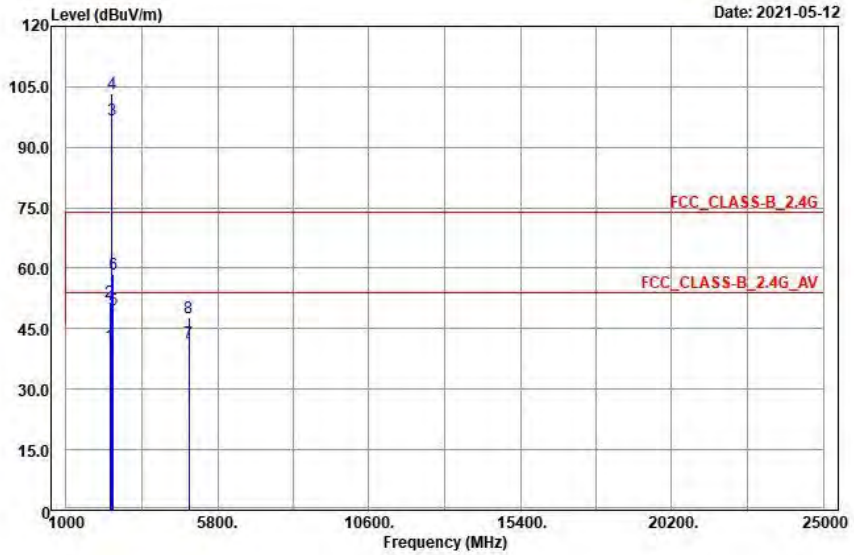
Ch 6	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 8	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	41.6	37.1	4.5	54	-12.4	100	115	Average
2390	52.18	47.68	4.5	74	-21.82	100	115	Peak
2447	99.87	95.27	4.6			100	115	Average
2447	106.84	102.24	4.6			100	115	Peak
2483.5	52.42	47.76	4.66	54	-1.58	100	115	Average
2483.5	61.8	57.14	4.66	74	-12.2	100	115	Peak
4894	41.59	31.45	10.14	54	-12.41	135	208	Average
4894	47.63	37.49	10.14	74	-26.37	135	208	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	41.01	36.51	4.5	54	-12.99	304	83	Average
2390	51.75	47.25	4.5	74	-22.25	304	83	Peak
2447	96.65	92.05	4.6			304	83	Average
2447	103.18	98.58	4.6			304	83	Peak
2483.5	49.63	44.97	4.66	54	-4.37	304	83	Average
2483.5	58.55	53.89	4.66	74	-15.45	304	83	Peak
4894	41.43	31.29	10.14	54	-12.57	111	14	Average
4894	47.59	37.45	10.14	74	-26.41	111	14	Peak

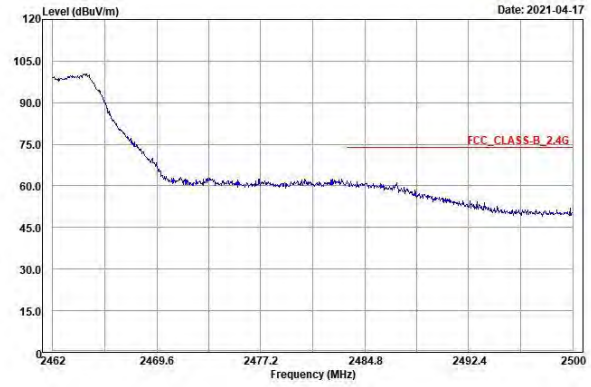
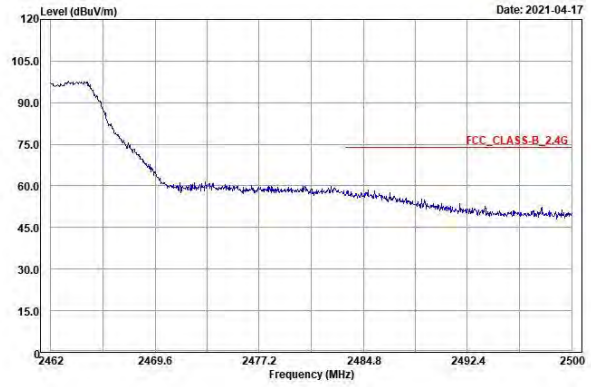
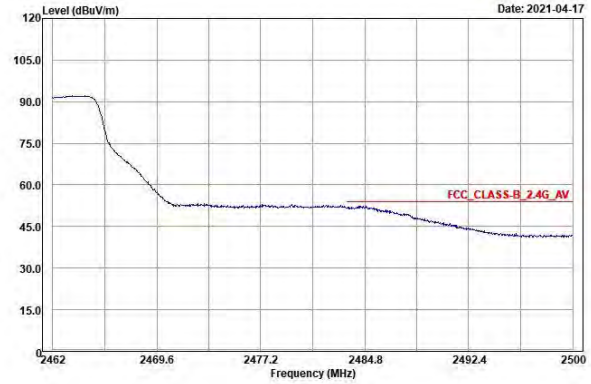
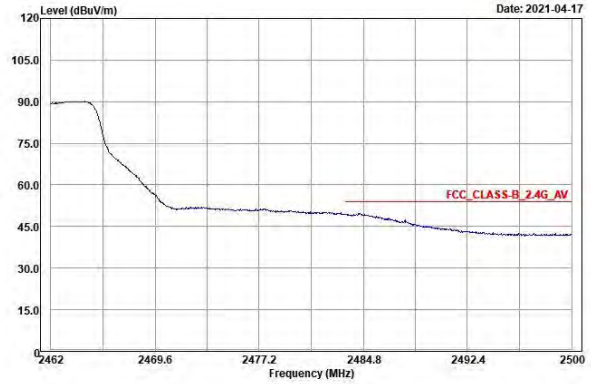
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

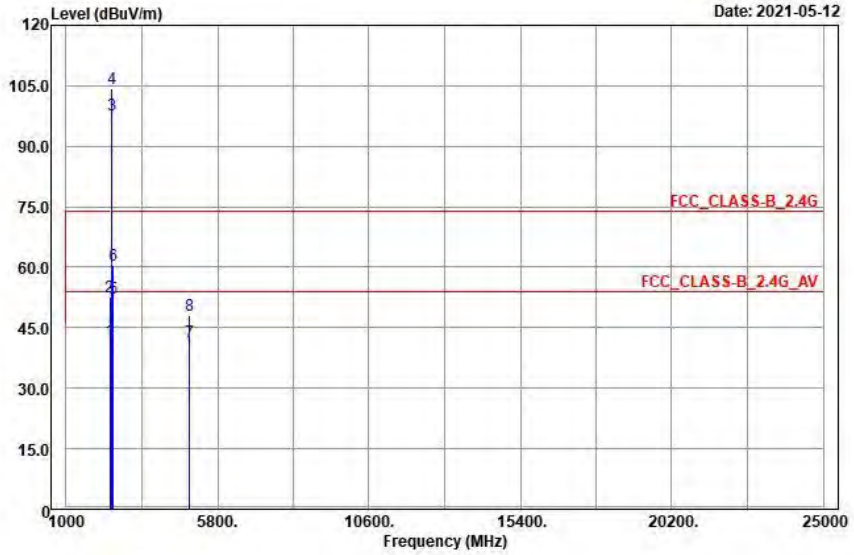
2. 2447 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

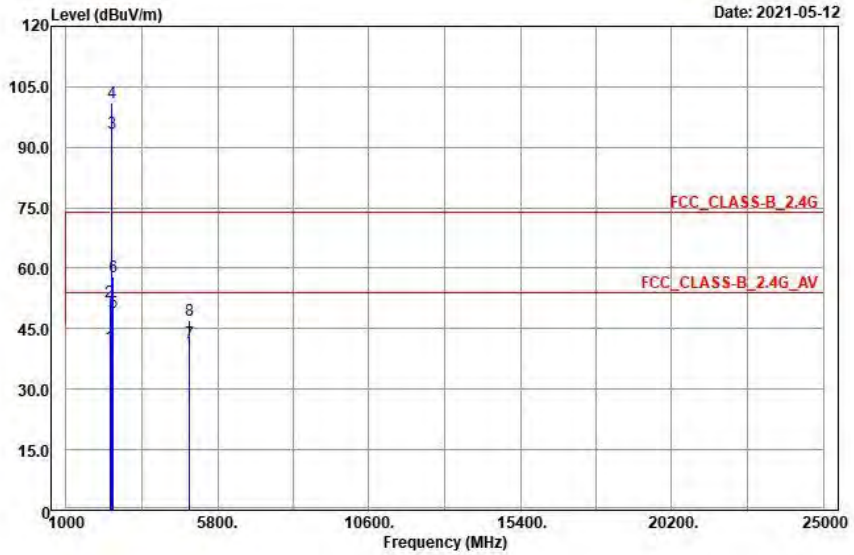
Ch 8	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 9	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	41.81	37.31	4.5	54	-12.19	100	115	Average
2390	52.69	48.19	4.5	74	-21.31	100	115	Peak
2452	97.63	93.03	4.6			100	115	Average
2452	104.21	99.61	4.6			100	115	Peak
2483.5	52.32	47.66	4.66	54	-1.68	100	115	Average
2483.5	60.42	55.76	4.66	74	-13.58	100	115	Peak
4904	41.54	31.4	10.14	54	-12.46	152	4	Average
4904	48.21	38.07	10.14	74	-25.79	152	4	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	40.52	36.02	4.5	54	-13.48	304	83	Average
2390	51.67	47.17	4.5	74	-22.33	304	83	Peak
2452	93.56	88.96	4.6			304	83	Average
2452	100.92	96.32	4.6			304	83	Peak
2483.5	48.96	44.3	4.66	54	-5.04	304	83	Average
2483.5	57.94	53.28	4.66	74	-16.06	304	83	Peak
4904	41.66	31.52	10.14	54	-12.34	154	214	Average
4904	47.21	37.07	10.14	74	-26.79	154	214	Peak

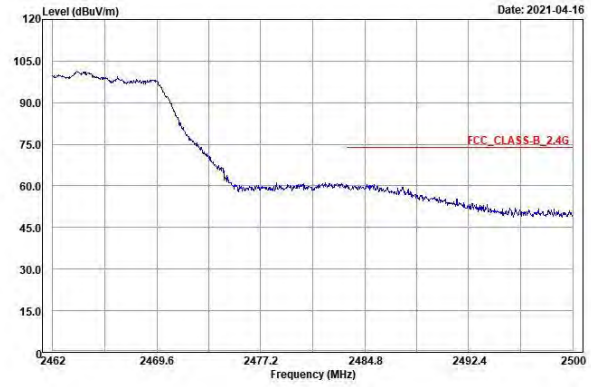
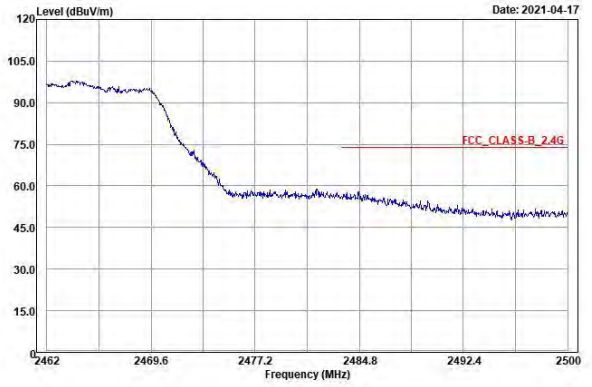
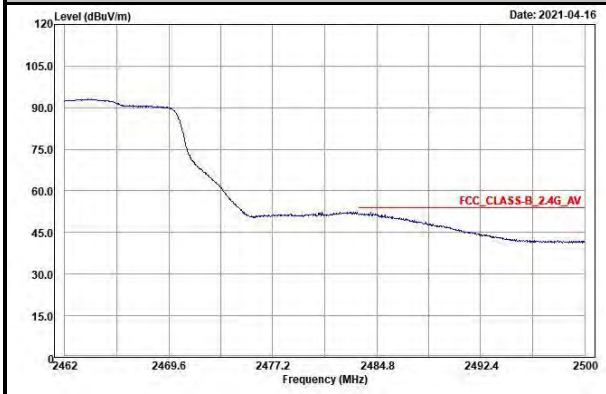
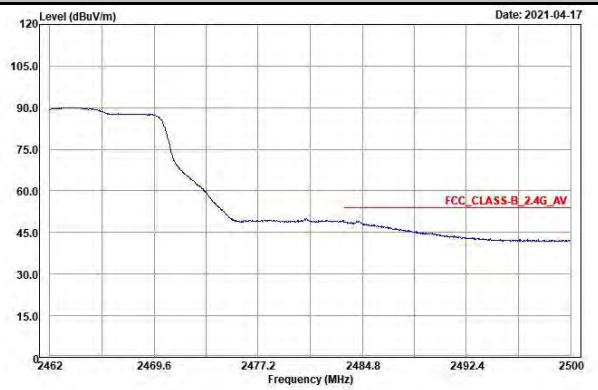
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

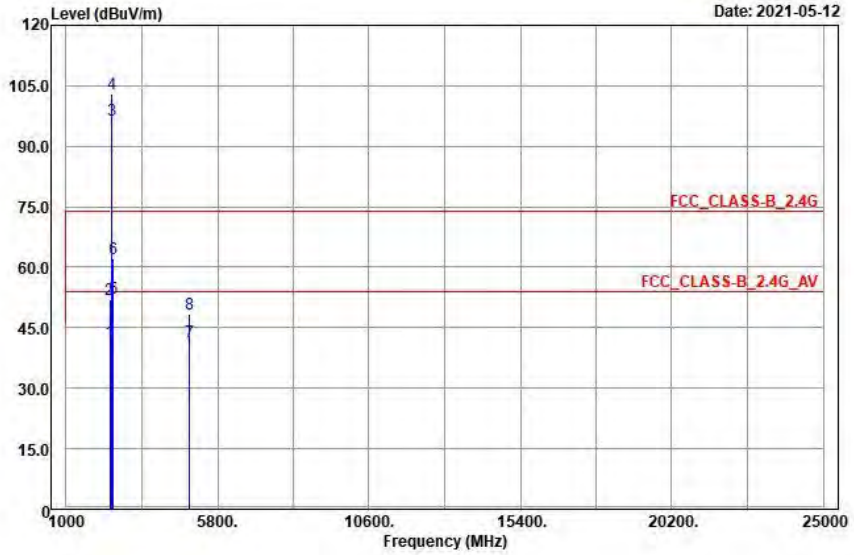
2. 2452 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

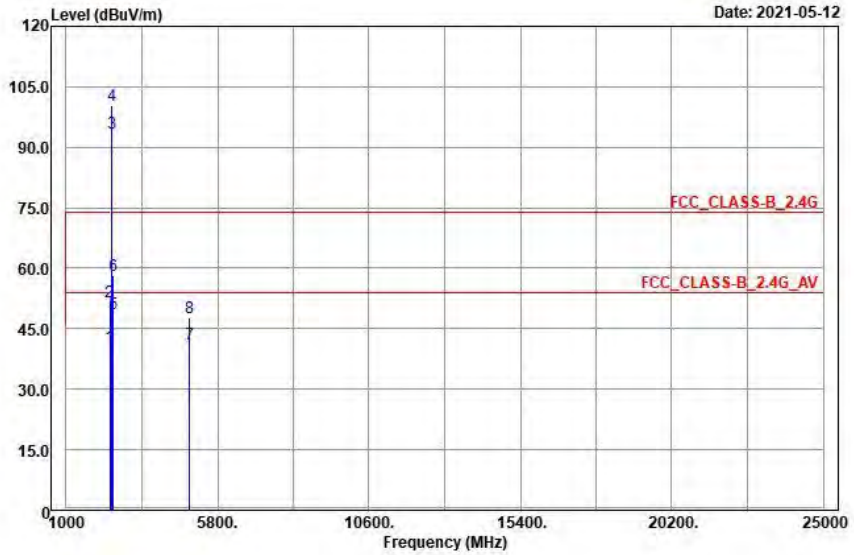
Ch 9	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 10	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	41.68	37.18	4.5	54	-12.32	100	115	Average
2390	51.87	47.37	4.5	74	-22.13	100	115	Peak
2457	96.43	91.81	4.62			100	115	Average
2457	103.07	98.45	4.62			100	115	Peak
2483.5	52.47	47.81	4.66	54	-1.53	100	115	Average
2483.5	62.25	57.59	4.66	74	-11.75	100	115	Peak
4914	41.53	31.38	10.15	54	-12.47	199	54	Average
4914	48.52	38.37	10.15	74	-25.48	199	54	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	40.53	36.03	4.5	54	-13.47	304	83	Average
2390	51.54	47.04	4.5	74	-22.46	304	83	Peak
2457	93.47	88.85	4.62			304	83	Average
2457	100.46	95.84	4.62			304	83	Peak
2483.5	48.87	44.21	4.66	54	-5.13	304	83	Average
2483.5	58.13	53.47	4.66	74	-15.87	304	83	Peak
4914	41.3	31.15	10.15	54	-12.7	178	88	Average
4914	47.85	37.7	10.15	74	-26.15	178	88	Peak

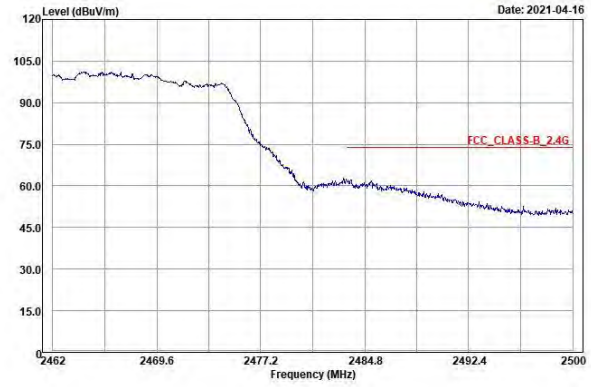
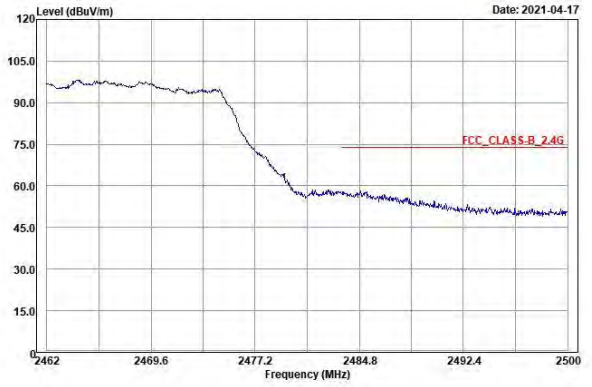
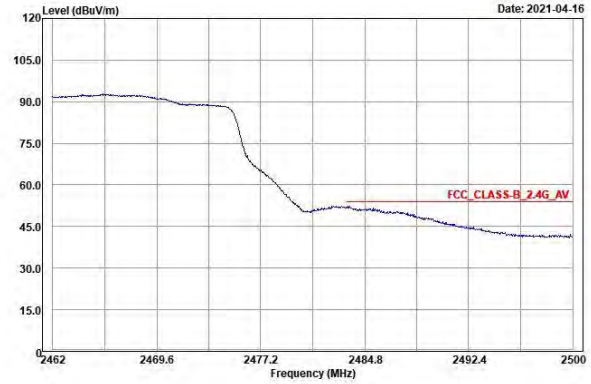
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

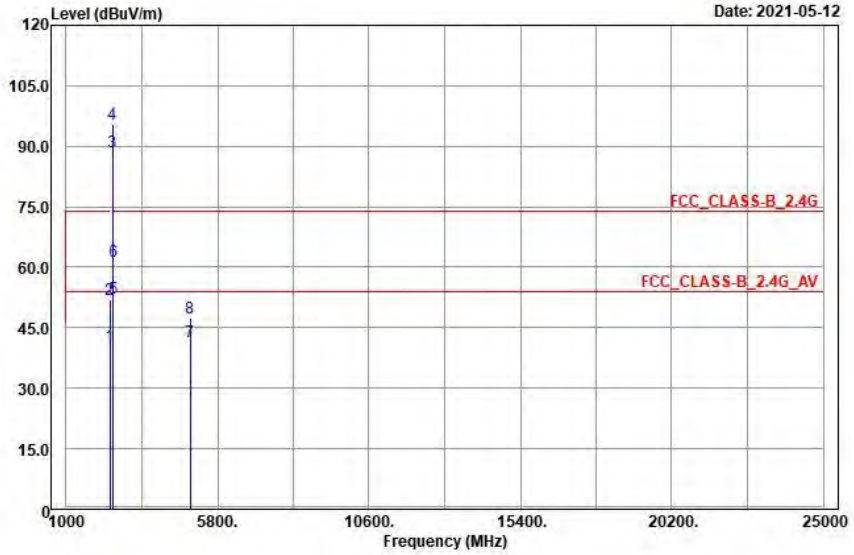
2. 2457 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

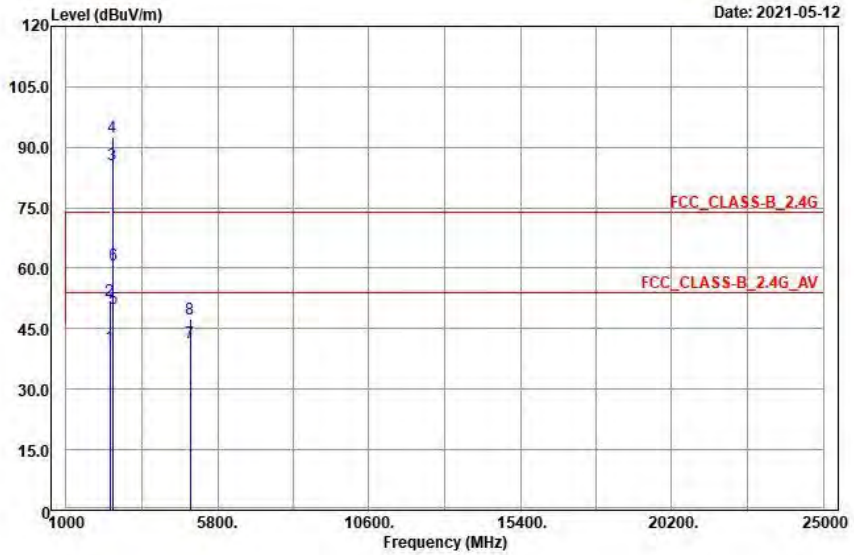
Ch 10	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 11	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	40.5	36	4.5	54	-13.5	108	120	Average
2390	51.92	47.42	4.5	74	-22.08	108	120	Peak
2462	88.57	83.95	4.62			108	120	Average
2462	95.55	90.93	4.62			108	120	Peak
2483.5	52.47	47.81	4.66	54	-1.53	108	120	Average
2483.5	61.38	56.72	4.66	74	-12.62	108	120	Peak
4924	41.65	31.4	10.25	54	-12.35	118	241	Average
4924	47.55	37.3	10.25	74	-26.45	118	241	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	40.4	35.9	4.5	54	-13.6	304	83	Average
2390	51.93	47.43	4.5	74	-22.07	304	83	Peak
2462	85.65	81.03	4.62			304	83	Average
2462	92.63	88.01	4.62			304	83	Peak
2483.5	49.91	45.25	4.66	54	-4.09	304	83	Average
2483.5	60.9	56.24	4.66	74	-13.1	304	83	Peak
4924	41.61	31.36	10.25	54	-12.39	154	244	Average
4924	47.5	37.25	10.25	74	-26.5	154	244	Peak

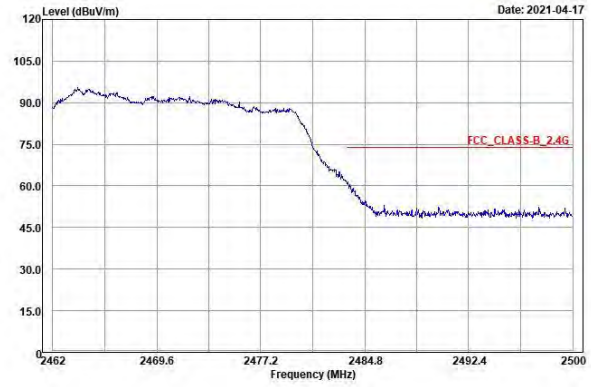
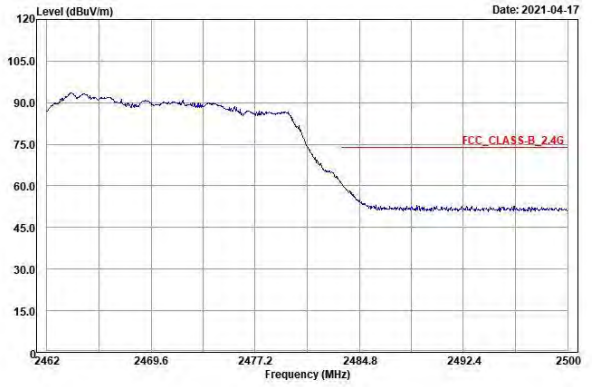
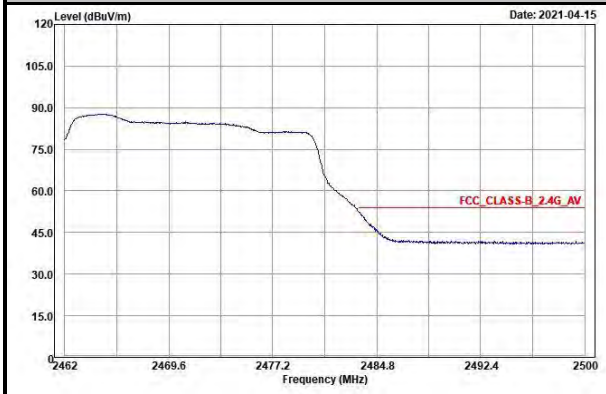
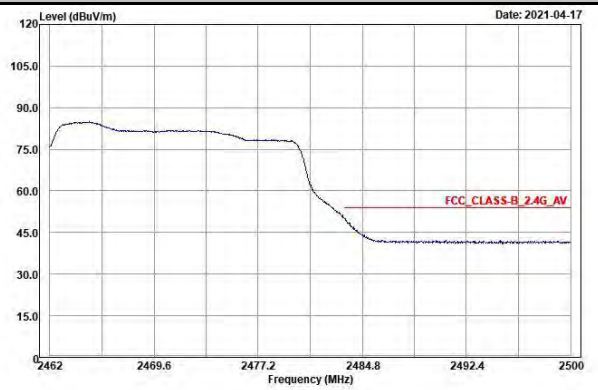
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

2. 2462 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

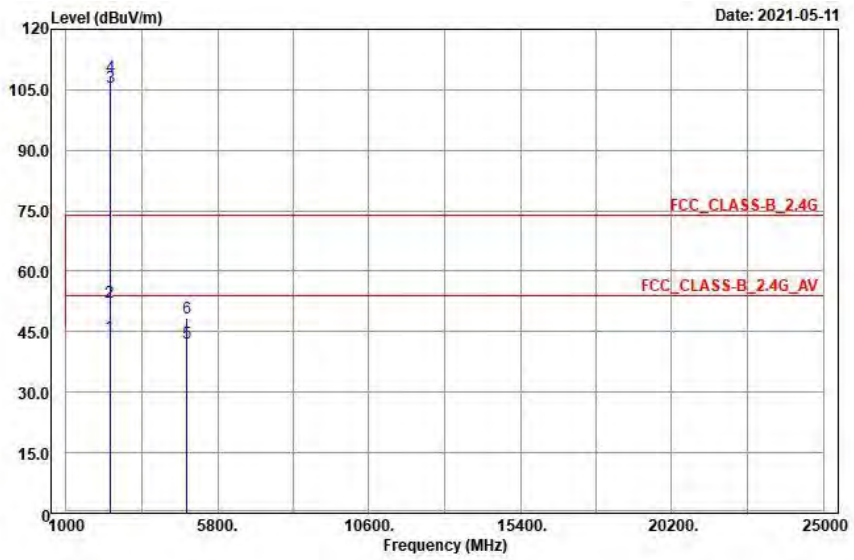
Ch 11	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

SISO_Chain B

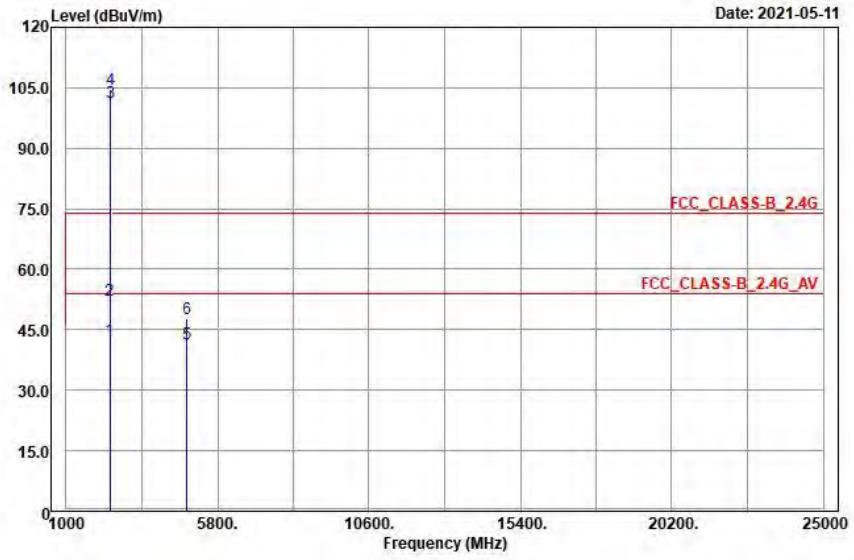
802.11b

EUT Test Condition		Measurement Detail	
Channel	Channel 1	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



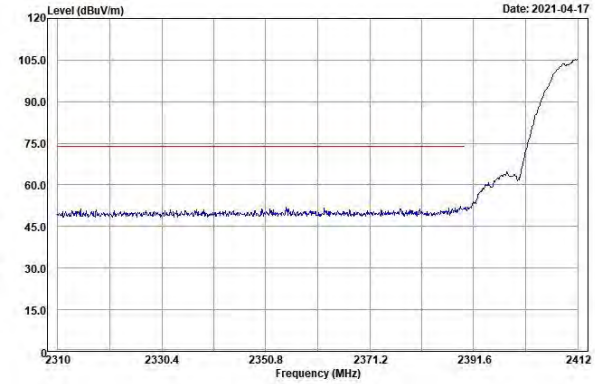
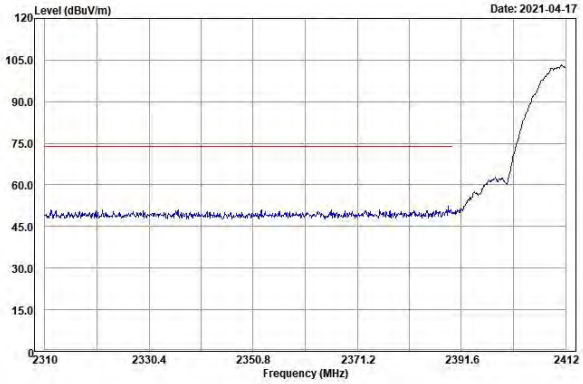
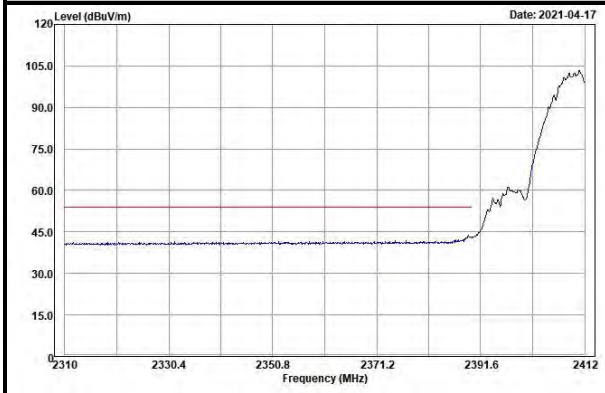
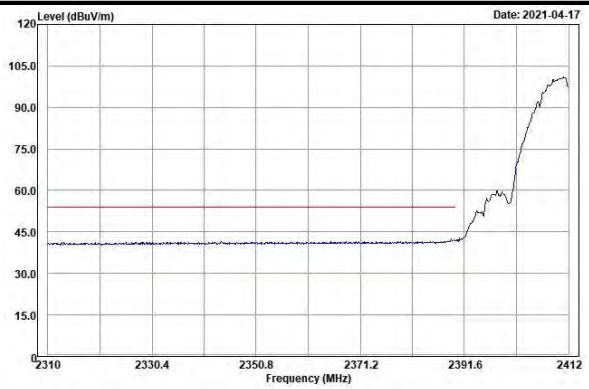
Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	43.81	39.31	4.5	54	-10.19	155	119	Average
2390	52.32	47.82	4.5	74	-21.68	155	119	Peak
2412	105.54	100.99	4.55			155	119	Average
2412	108.37	103.82	4.55			155	119	Peak
4824	42.33	32.04	10.29	54	-11.67	106	251	Average
4824	48.49	38.2	10.29	74	-25.51	106	251	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	42.45	37.95	4.5	54	-11.55	355	347	Average
2390	52.26	47.76	4.5	74	-21.74	355	347	Peak
2412	101.24	96.69	4.55			355	347	Average
2412	104.77	100.22	4.55			355	347	Peak
4824	41.42	31.13	10.29	54	-12.58	191	154	Average
4824	47.65	37.36	10.29	74	-26.35	191	154	Peak

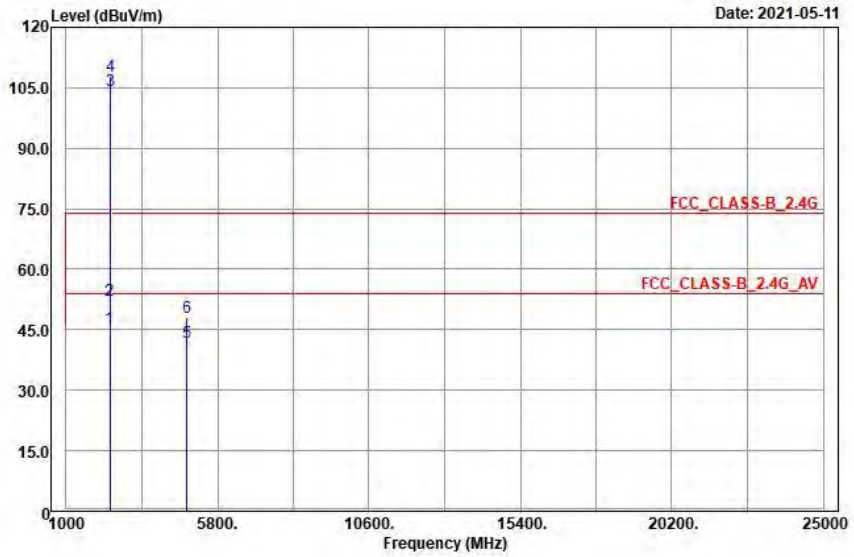
Remarks:

1. Emission Level = Read Level + Factor
   Margin Value = Emission Level – Limit value
2. 2412 MHz: Fundamental Frequency.
3. The other emission levels were very low against the limit.

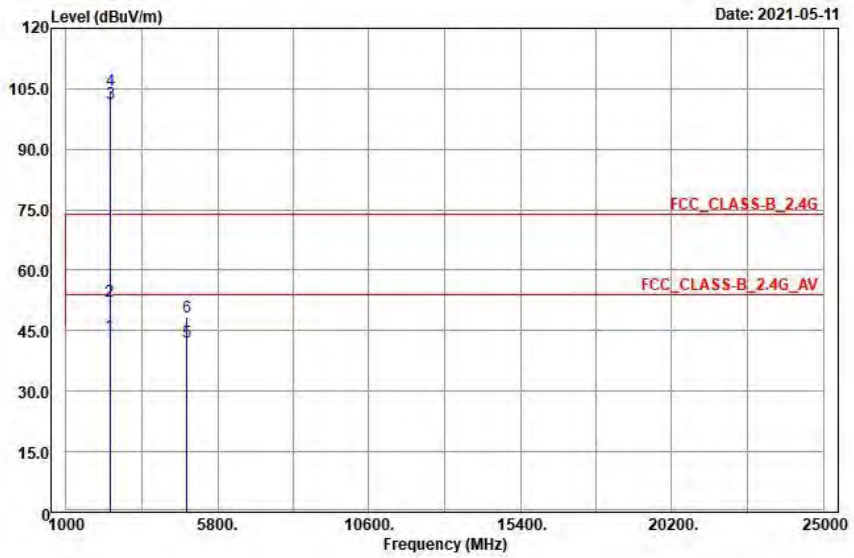
Ch 1	
Peak	
Horizontal	**Vertical**
	
Average	
Horizontal	**Vertical**
	

EUT Test Condition		Measurement Detail	
Channel	Channel 2	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	45.43	40.93	4.5	54	-8.57	155	119	Average
2390	52.41	47.91	4.5	74	-21.59	155	119	Peak
2417	104.45	99.91	4.54			155	119	Average
2417	107.9	103.36	4.54			155	119	Peak
4834	41.93	31.64	10.29	54	-12.07	236	154	Average
4834	48.12	37.83	10.29	74	-25.88	236	154	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	43.74	39.24	4.5	54	-10.26	355	347	Average
2390	52.32	47.82	4.5	74	-21.68	355	347	Peak
2417	101.32	96.78	4.54			355	347	Average
2417	104.79	100.25	4.54			355	347	Peak
4834	42.12	31.83	10.29	54	-11.88	127	161	Average
4834	48.34	38.05	10.29	74	-25.66	127	161	Peak

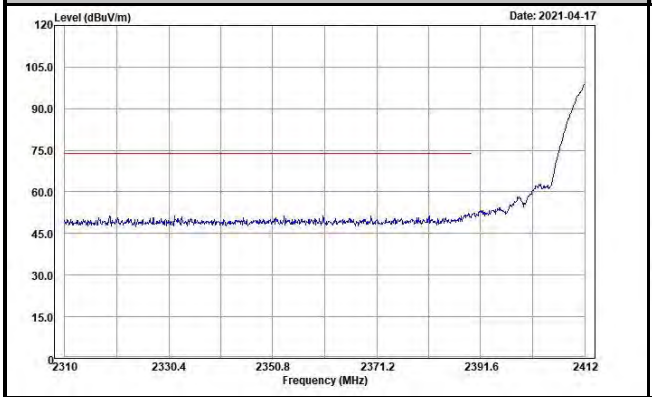
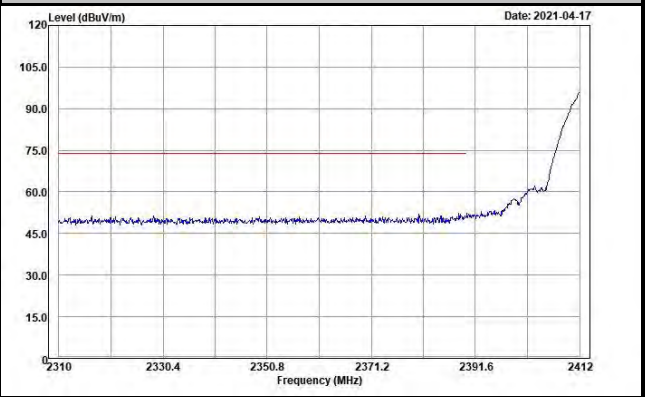
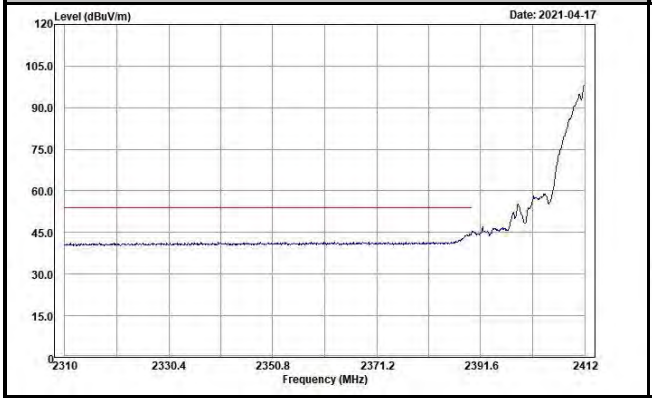
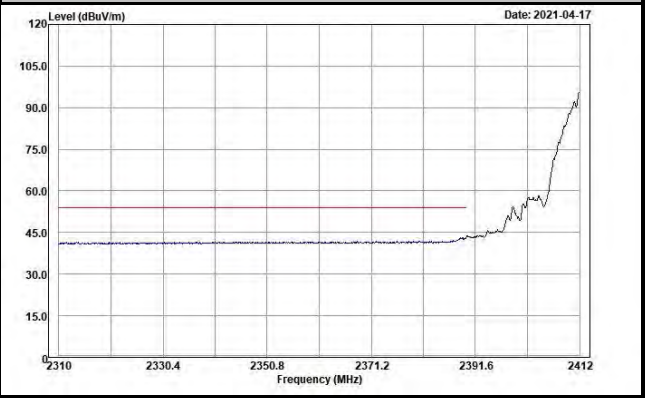
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

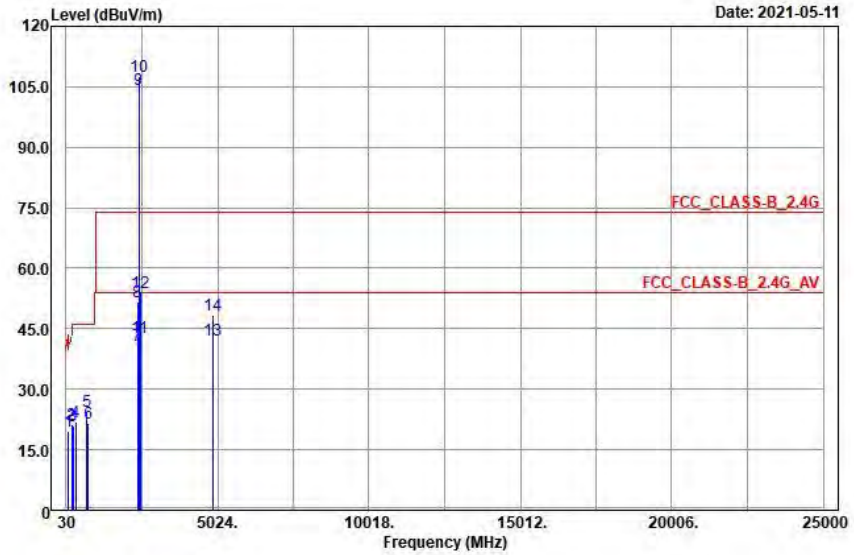
2. 2417 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

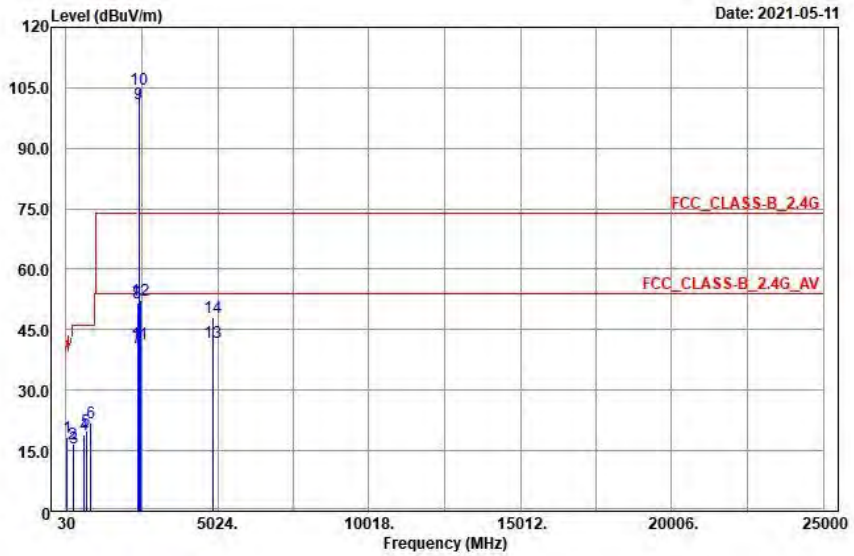
Ch 2	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 6	**Frequency Range**	30 MHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Above 1 GHz:Peak (PK)& Average(AV) Below 1 GHz:Peak (PK) or Quasi-Peak(QP)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
111.27	19.57	37.35	-17.78	43.5	-23.93	146	65	QP
217.11	21.33	39.25	-17.92	46	-24.67	105	285	QP
253.83	21.01	37.79	-16.78	46	-24.99	124	211	QP
339.2	21.91	36.91	-15	46	-24.09	105	255	QP
706.7	24.36	33.48	-9.12	46	-21.64	144	174	QP
763.4	21.67	29.92	-8.25	46	-24.33	105	135	QP
2390	41.03	36.53	4.5	54	-12.97	155	119	Average
2390	51.66	47.16	4.5	74	-22.34	155	119	Peak
2437	104.41	99.82	4.59			155	119	Average
2437	107.56	102.97	4.59			155	119	Peak
2483.5	42.93	38.27	4.66	54	-11.07	155	119	Average
2483.5	54.08	49.42	4.66	74	-19.92	155	119	Peak
4874	42.31	32.1	10.21	54	-11.69	210	164	Average
4874	48.48	38.27	10.21	74	-25.52	210	164	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
55.11	18.4	33.89	-15.49	40	-21.6	188	254	QP
251.4	16.78	33.6	-16.82	46	-29.22	105	116	QP
276.51	15.69	32.14	-16.45	46	-30.31	127	244	QP
636	19.04	29.37	-10.33	46	-26.96	124	114	QP
688.5	19.83	29.16	-9.33	46	-26.17	105	192	QP
839	21.78	28.76	-6.98	46	-24.22	118	247	QP
2390	40.54	36.04	4.5	54	-13.46	332	347	Average
2390	51.66	47.16	4.5	74	-22.34	332	347	Peak
2437	101.15	96.56	4.59			332	347	Average
2437	104.64	100.05	4.59			332	347	Peak
2483.5	41.57	36.91	4.66	54	-12.43	332	347	Average
2483.5	52.24	47.58	4.66	74	-21.76	332	347	Peak
4874	41.8	31.59	10.21	54	-12.2	196	31	Average
4874	47.93	37.72	10.21	74	-26.07	196	31	Peak

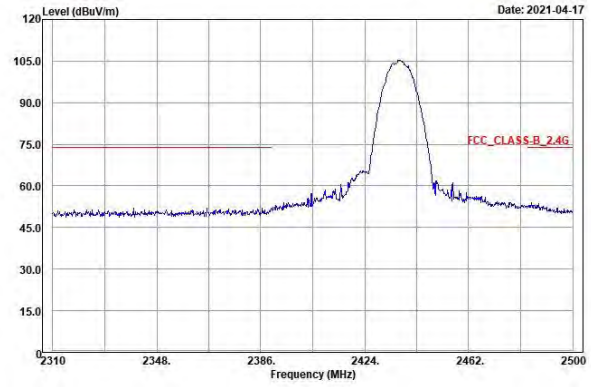
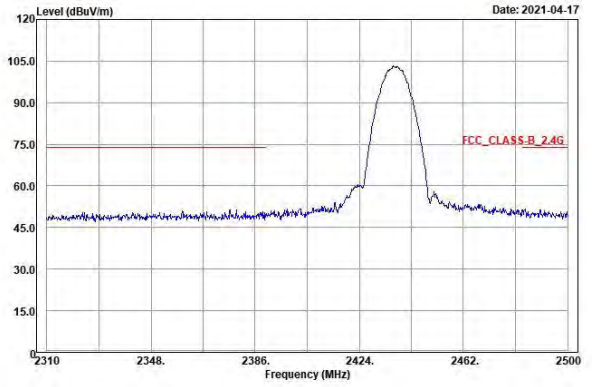
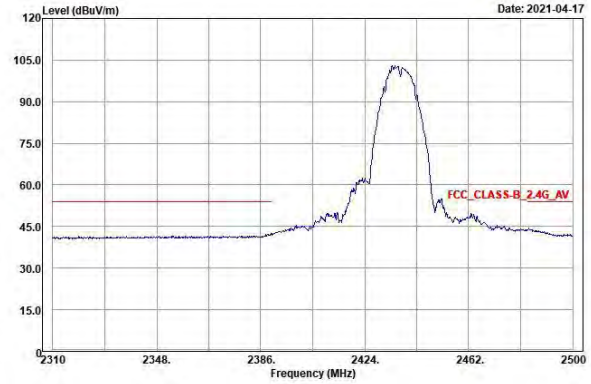
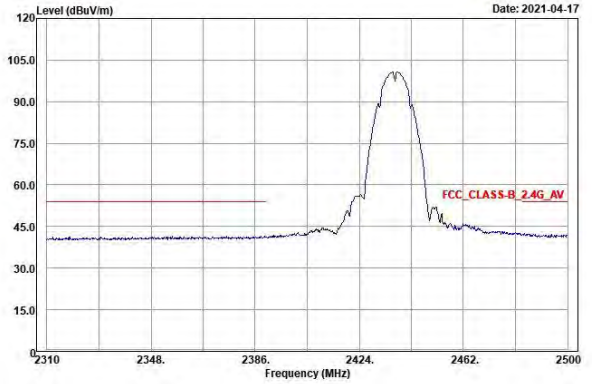
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

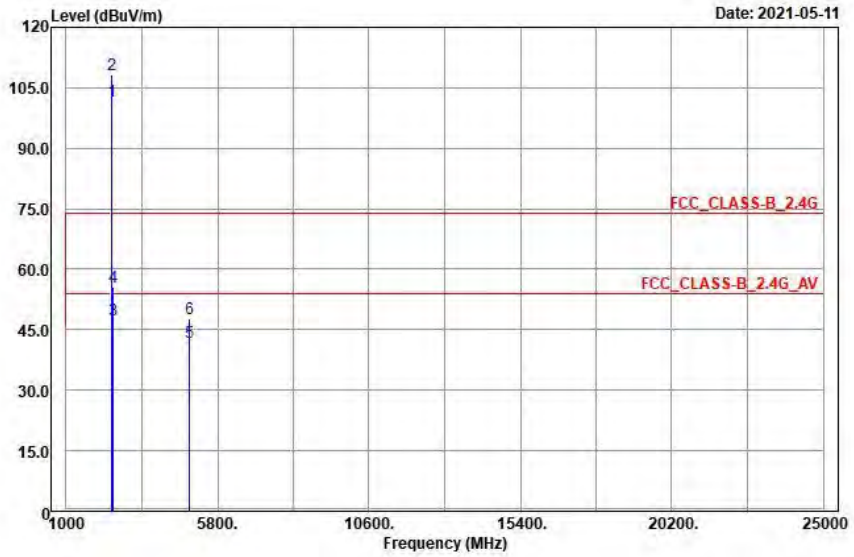
2. 2437 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

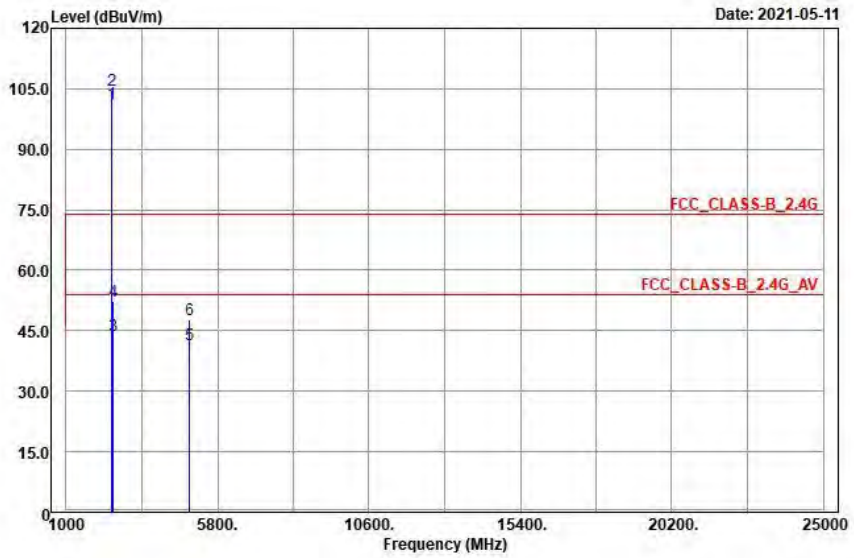
Ch 6	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 10	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	101.54	96.92	4.62			155	119	Average
2457	108.37	103.75	4.62			155	119	Peak
2483.5	47.56	42.9	4.66	54	-6.44	155	119	Average
2483.5	55.46	50.8	4.66	74	-18.54	155	119	Peak
4914	41.77	31.62	10.15	54	-12.23	192	302	Average
4914	47.88	37.73	10.15	74	-26.12	192	302	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	101.33	96.71	4.62			332	347	Average
2457	104.73	100.11	4.62			332	347	Peak
2483.5	43.74	39.08	4.66	54	-10.26	332	347	Average
2483.5	52.39	47.73	4.66	74	-21.61	332	347	Peak
4914	41.46	31.31	10.15	54	-12.54	215	107	Average
4914	47.6	37.45	10.15	74	-26.4	215	107	Peak

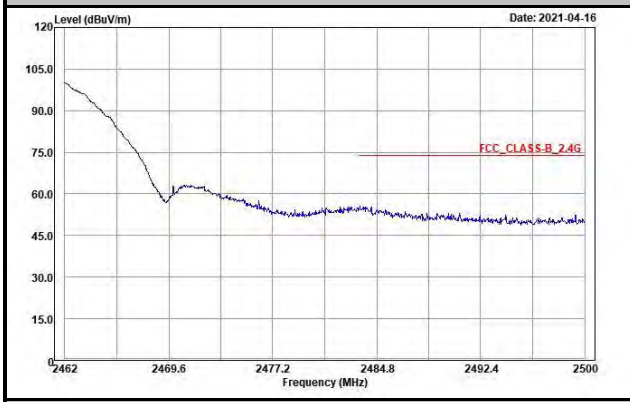
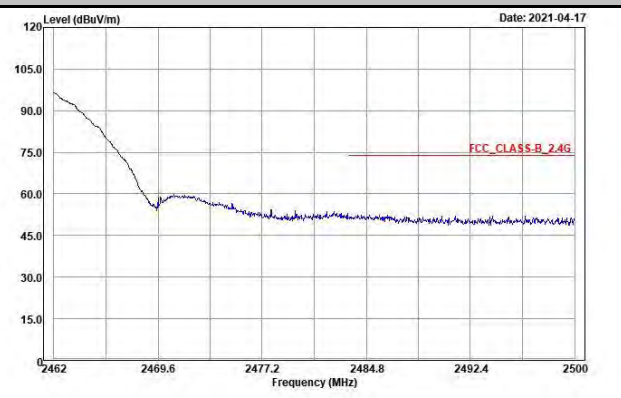
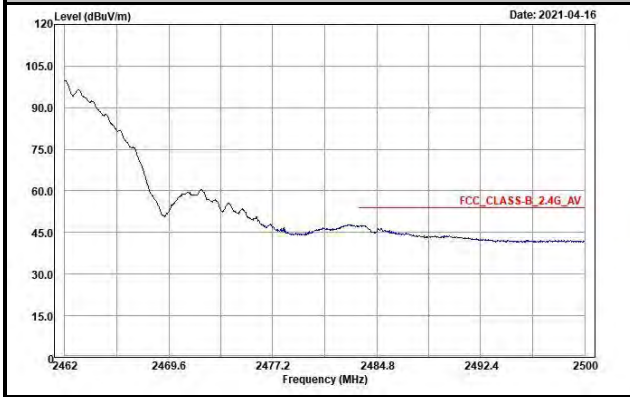
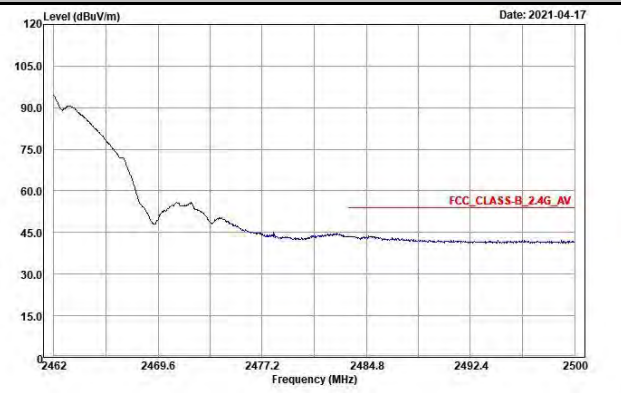
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

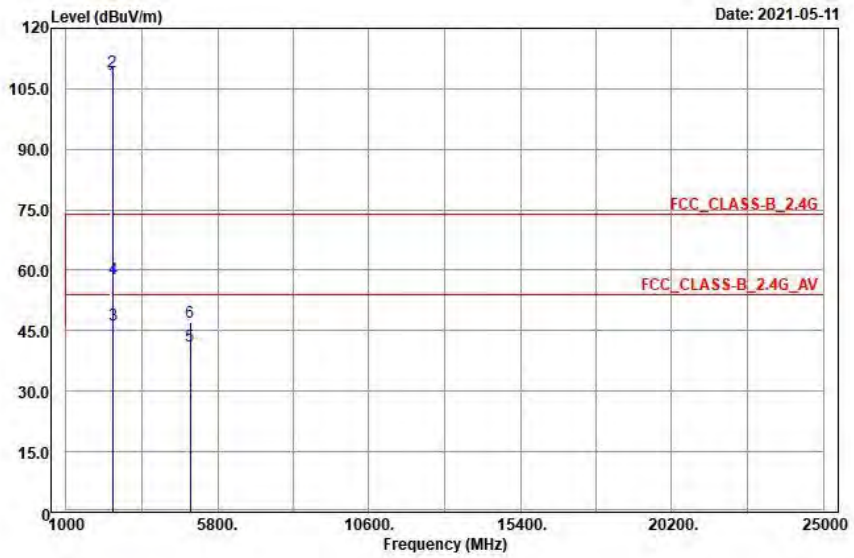
2. 2457 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

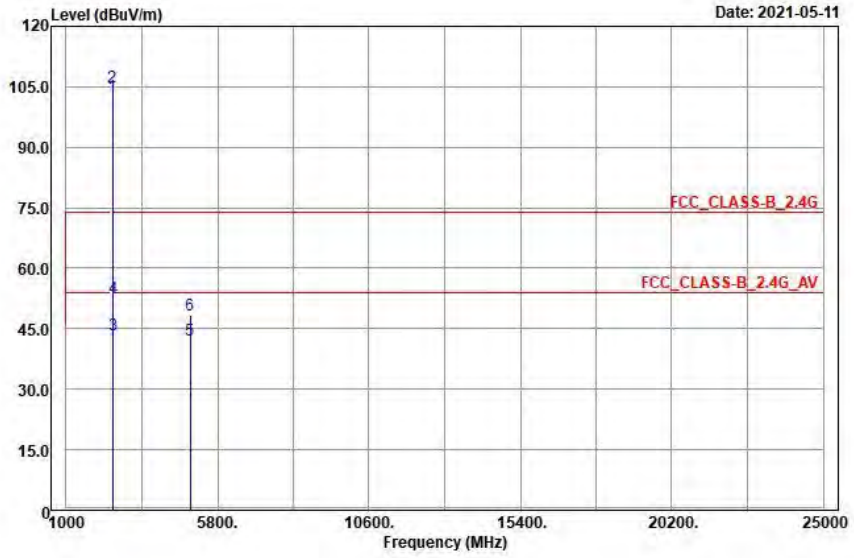
Ch 10	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 11	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	106.65	102.03	4.62			155	119	Average
2462	109.2	104.58	4.62			155	119	Peak
2483.5	46.35	41.69	4.66	54	-7.65	155	119	Average
2483.5	58.03	53.37	4.66	74	-15.97	155	119	Peak
4924	41.09	30.84	10.25	54	-12.91	224	253	Average
4924	47.17	36.92	10.25	74	-26.83	224	253	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	102.54	97.92	4.62			332	347	Average
2462	105.1	100.48	4.62			332	347	Peak
2483.5	43.54	38.88	4.66	54	-10.46	332	347	Average
2483.5	52.78	48.12	4.66	74	-21.22	332	347	Peak
4924	42.06	31.81	10.25	54	-11.94	229	276	Average
4924	48.3	38.05	10.25	74	-25.7	229	276	Peak

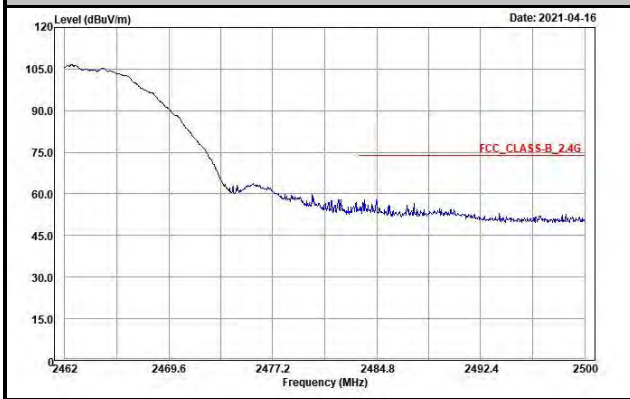
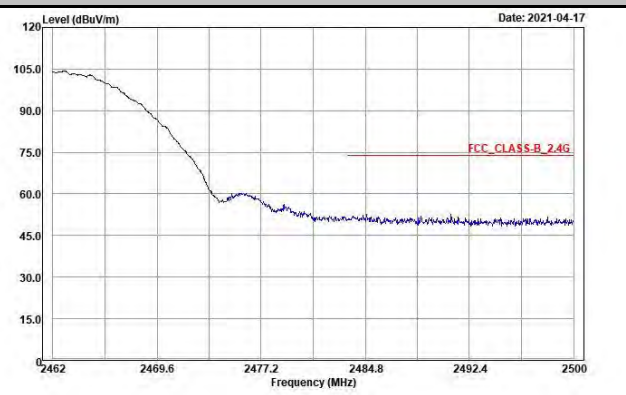
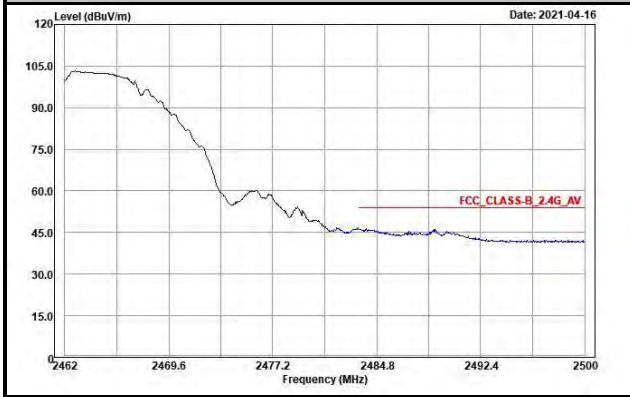
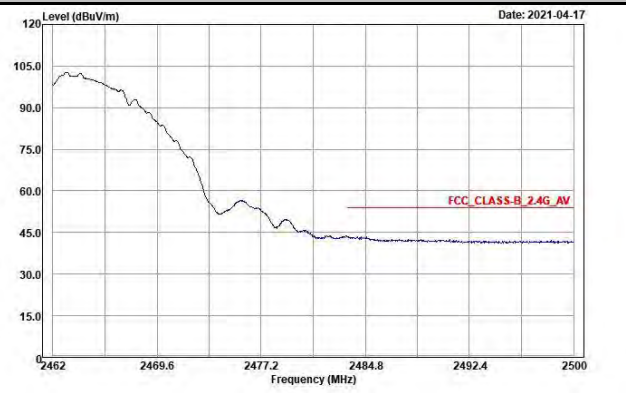
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

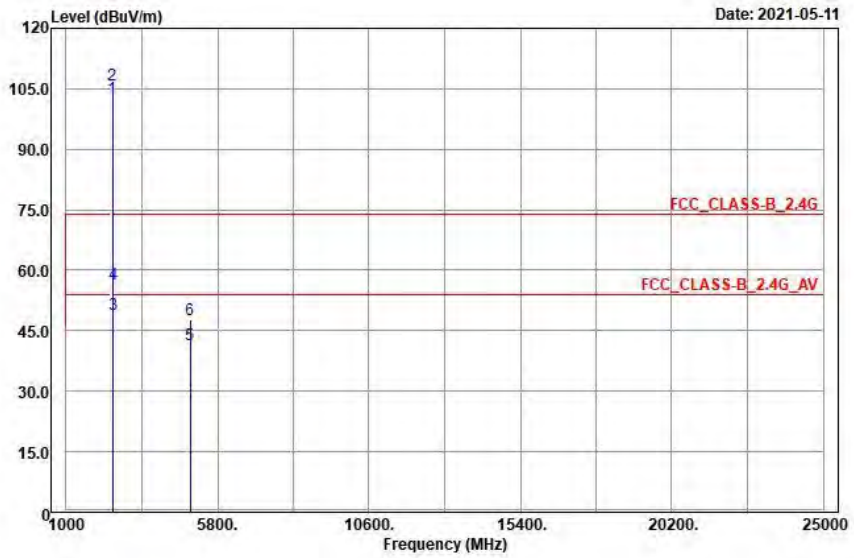
2. 2462 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

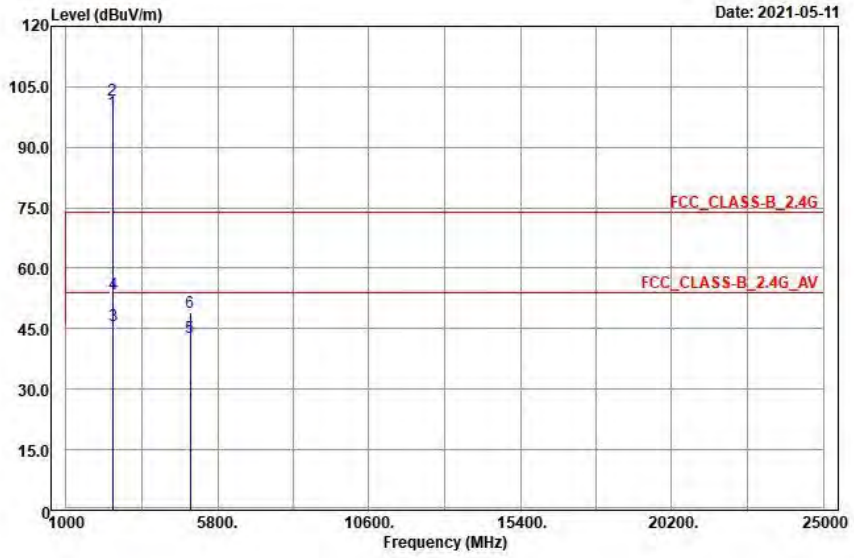
Ch 11	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 12	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



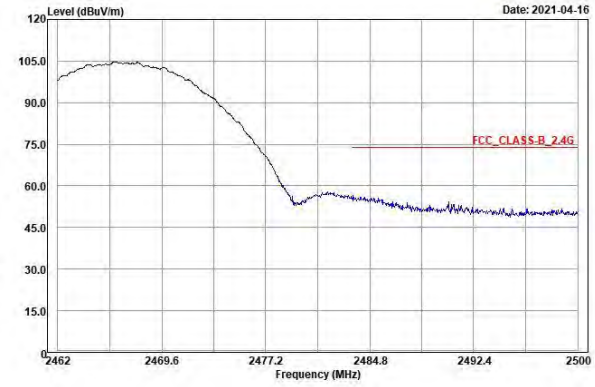
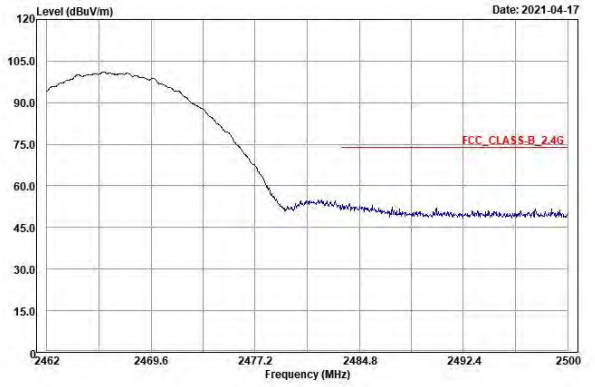
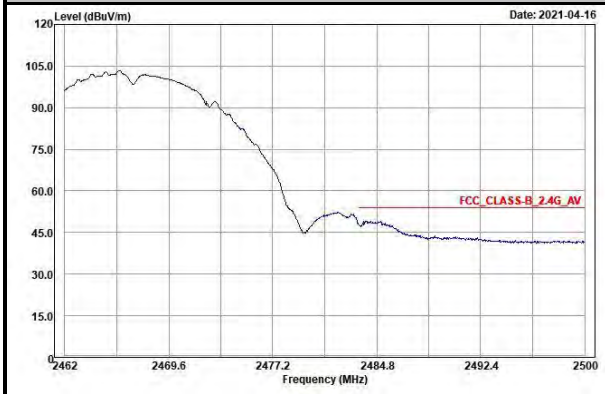
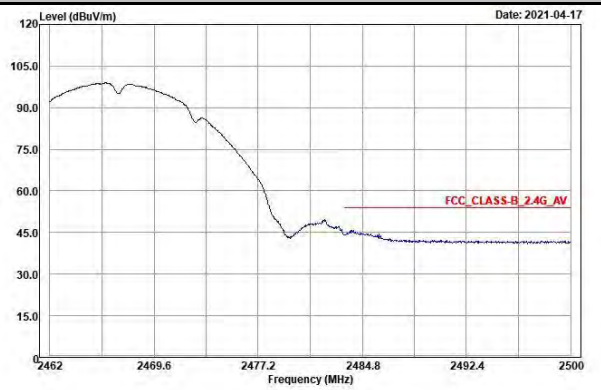
Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2467	102.54	97.91	4.63			155	119	Average
2467	105.82	101.19	4.63			155	119	Peak
2483.5	49.2	44.54	4.66	54	-4.8	155	119	Average
2483.5	56.57	51.91	4.66	74	-17.43	155	119	Peak
4934	41.6	31.34	10.26	54	-12.4	146	27	Average
4934	47.74	37.48	10.26	74	-26.26	146	27	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2467	98.87	94.24	4.63			332	347	Average
2467	101.63	97	4.63			332	347	Peak
2483.5	45.75	41.09	4.66	54	-8.25	332	347	Average
2483.5	53.57	48.91	4.66	74	-20.43	332	347	Peak
4934	42.73	32.47	10.26	54	-11.27	292	164	Average
4934	48.96	38.7	10.26	74	-25.04	292	164	Peak

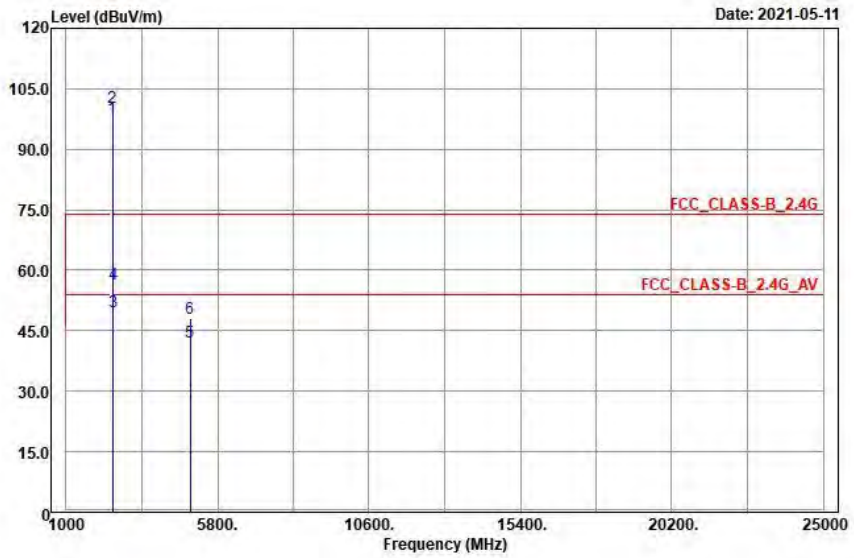
Remarks:

1. Emission Level = Read Level + Factor
   Margin Value = Emission Level – Limit value
2. 2467 MHz: Fundamental Frequency.
3. The other emission levels were very low against the limit.

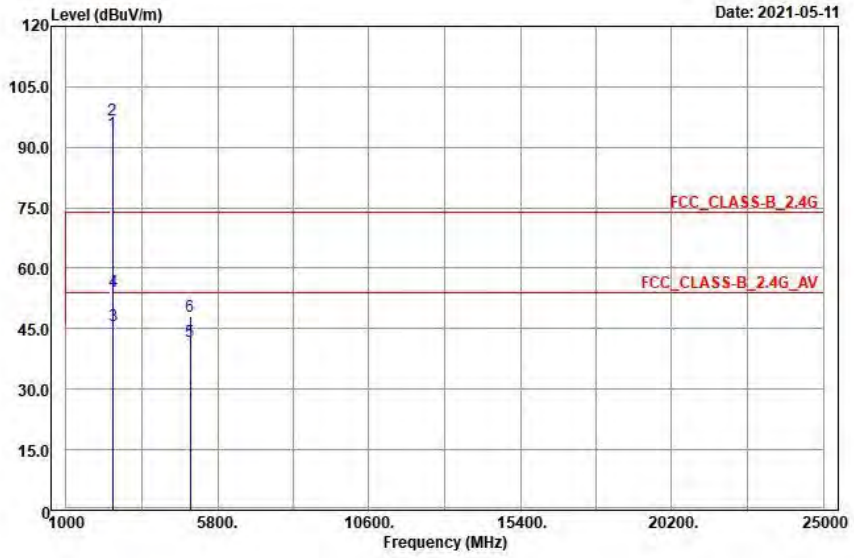
Ch 12	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 13	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2472	97.87	93.23	4.64			155	119	Average
2472	100.54	95.9	4.64			155	119	Peak
2483.5	49.68	45.02	4.66	54	-4.32	155	119	Average
2483.5	56.46	51.8	4.66	74	-17.54	155	119	Peak
4944	42.18	31.83	10.35	54	-11.82	283	150	Average
4944	48.22	37.87	10.35	74	-25.78	283	150	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2472	93.64	89	4.64			332	347	Average
2472	96.76	92.12	4.64			332	347	Peak
2483.5	45.9	41.24	4.66	54	-8.1	332	347	Average
2483.5	54.13	49.47	4.66	74	-19.87	332	347	Peak
4944	41.75	31.4	10.35	54	-12.25	188	124	Average
4944	47.91	37.56	10.35	74	-26.09	188	124	Peak

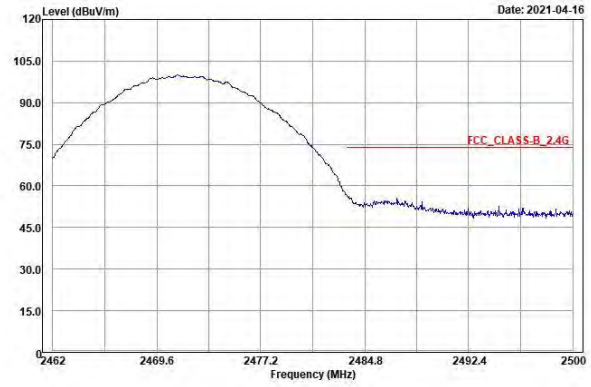
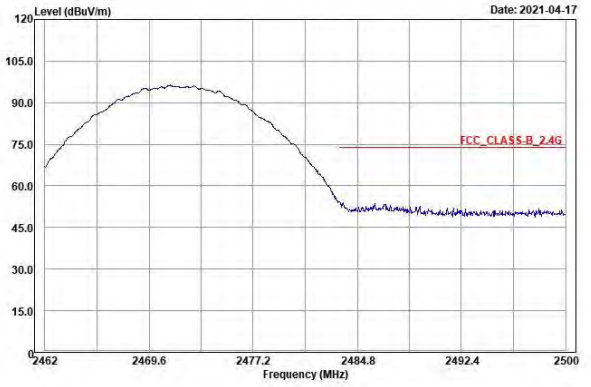
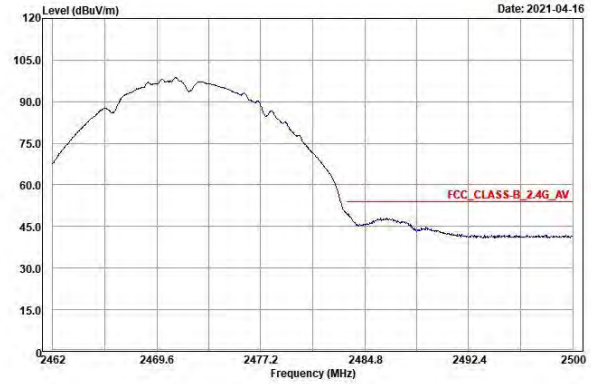
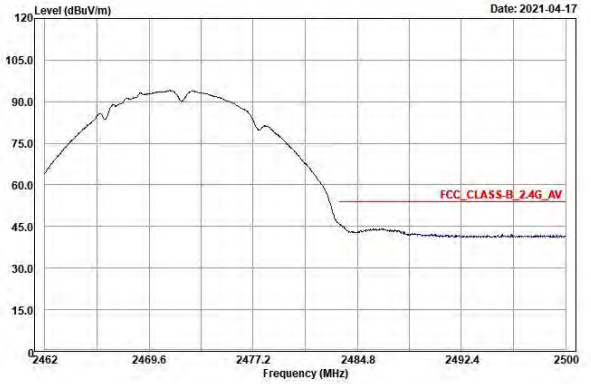
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

2. 2472 MHz: Fundamental Frequency.

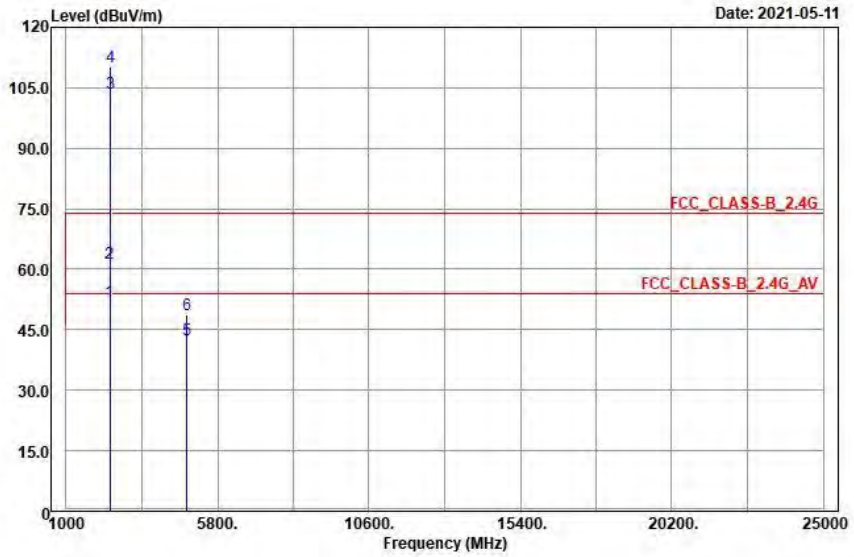
3. The other emission levels were very low against the limit.

Ch 13	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

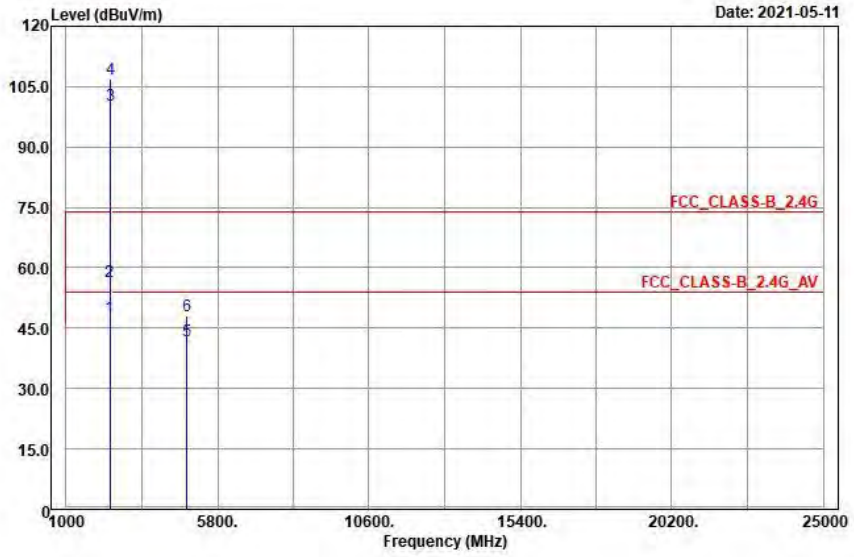
802.11g

EUT Test Condition		Measurement Detail	
Channel	Channel 1	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



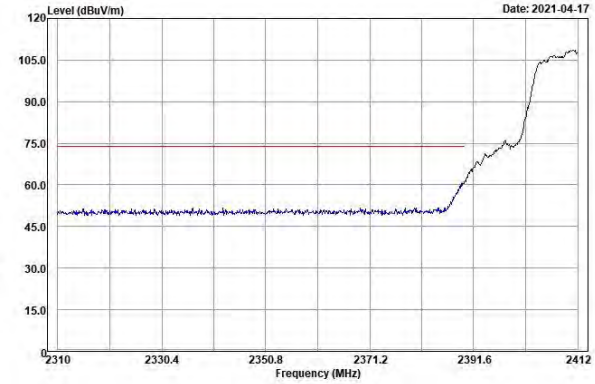
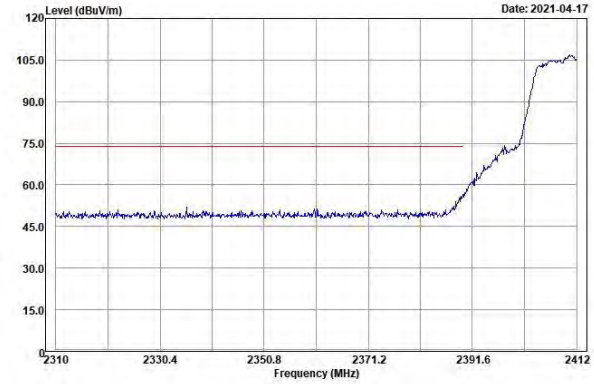
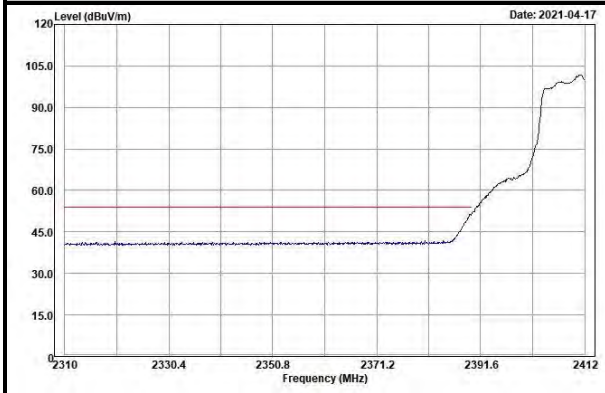
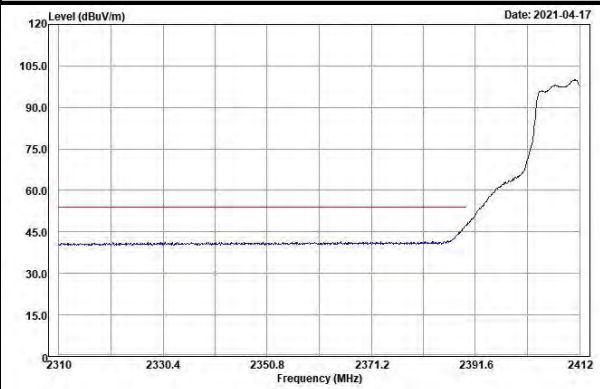
Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	52.07	47.57	4.5	54	-1.93	155	110	Average
2390	61.59	57.09	4.5	74	-12.41	155	110	Peak
2412	103.69	99.14	4.55			155	110	Average
2412	110.23	105.68	4.55			155	110	Peak
4824	42.46	32.17	10.29	54	-11.54	255	172	Average
4824	48.57	38.28	10.29	74	-25.43	255	172	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	47.75	43.25	4.5	54	-6.25	355	347	Average
2390	56.63	52.13	4.5	74	-17.37	355	347	Peak
2412	100.47	95.92	4.55			355	347	Average
2412	107.01	102.46	4.55			355	347	Peak
4824	41.89	31.6	10.29	54	-12.11	161	282	Average
4824	48.07	37.78	10.29	74	-25.93	161	282	Peak

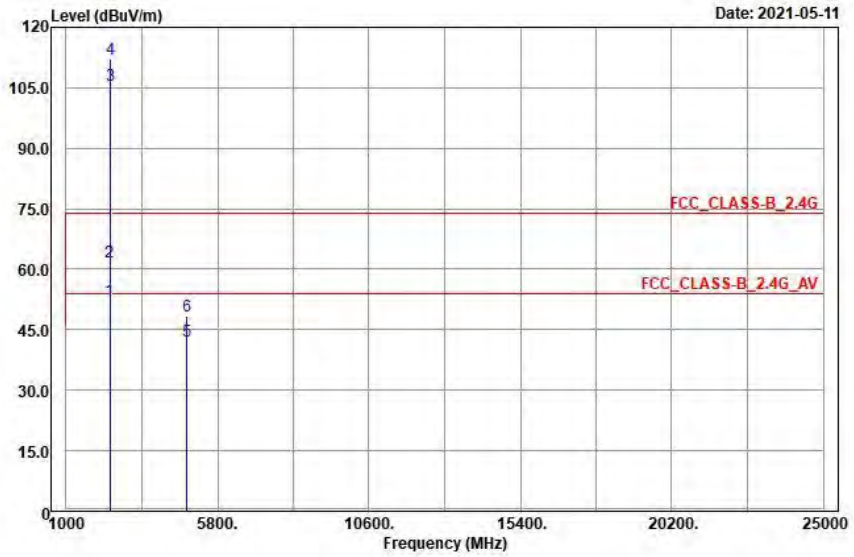
Remarks:

1. Emission Level = Read Level + Factor
   Margin Value = Emission Level – Limit value
2. 2412 MHz: Fundamental Frequency.
3. The other emission levels were very low against the limit.

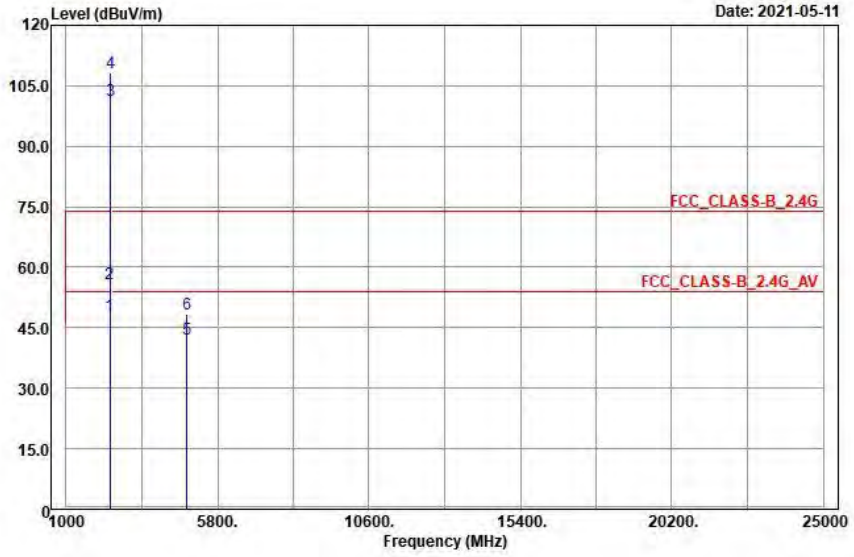
Ch 1	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 2	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	52.37	47.87	4.5	54	-1.63	155	110	Average
2390	61.72	57.22	4.5	74	-12.28	155	110	Peak
2417	105.53	100.99	4.54			155	110	Average
2417	112.05	107.51	4.54			155	110	Peak
4834	42.29	32	10.29	54	-11.71	166	21	Average
4834	48.48	38.19	10.29	74	-25.52	166	21	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	48.01	43.51	4.5	54	-5.99	355	347	Average
2390	56.05	51.55	4.5	74	-17.95	355	347	Peak
2417	101.48	96.94	4.54			355	347	Average
2417	108.18	103.64	4.54			355	347	Peak
4834	42.21	31.92	10.29	54	-11.79	256	182	Average
4834	48.31	38.02	10.29	74	-25.69	256	182	Peak

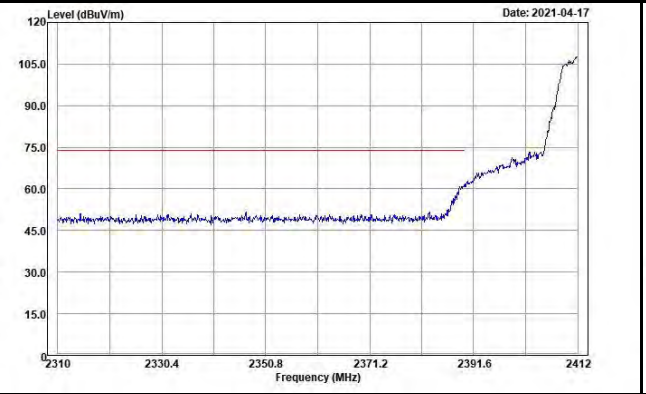
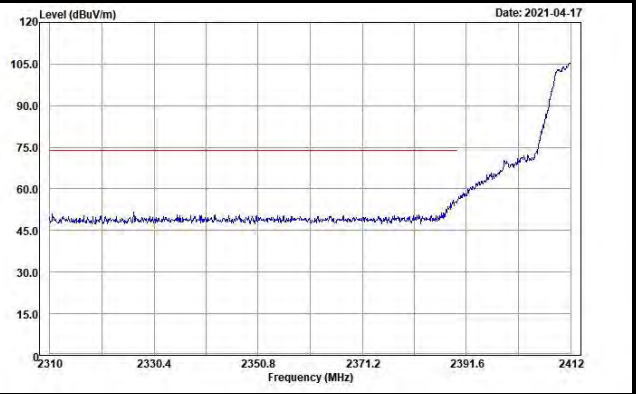
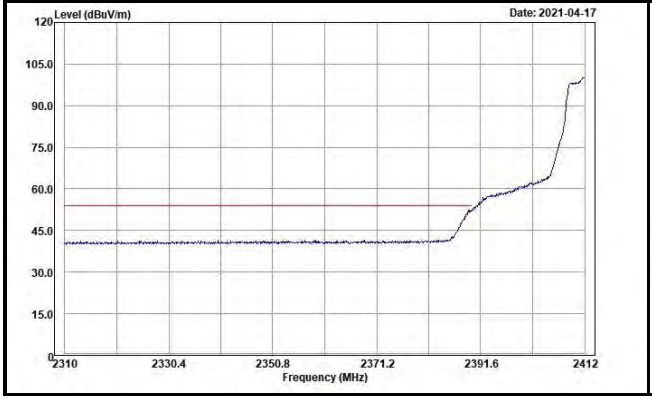
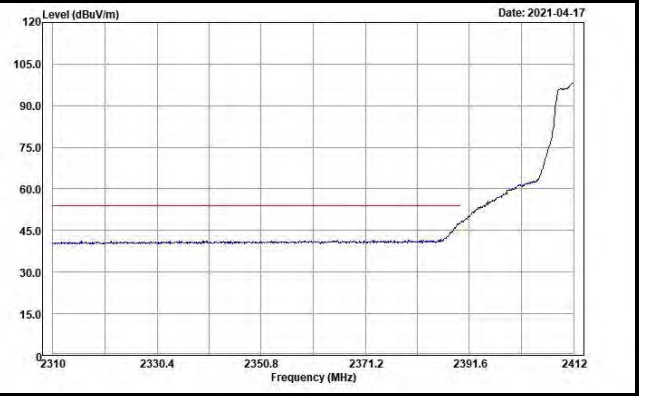
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

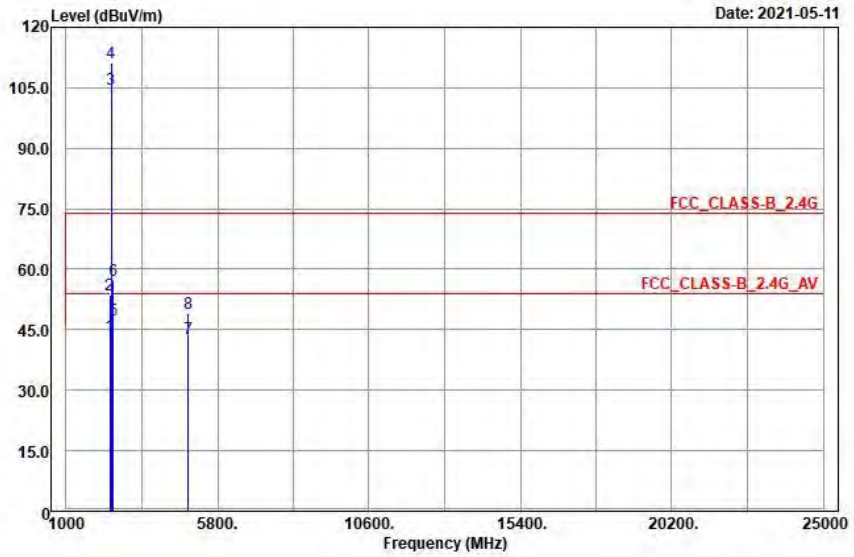
2. 2417 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

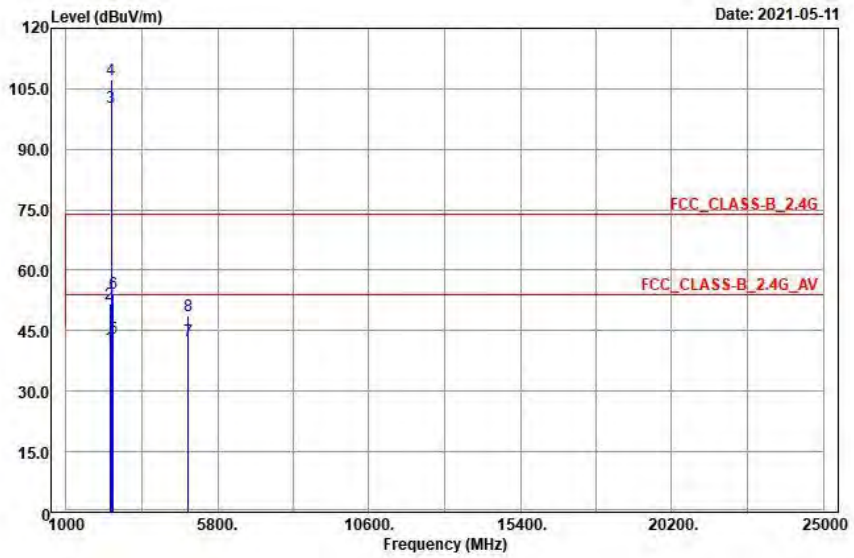
Ch 2	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 6	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	43.62	39.12	4.5	54	-10.38	155	110	Average
2390	53.56	49.06	4.5	74	-20.44	155	110	Peak
2437	104.51	99.92	4.59			155	110	Average
2437	111.1	106.51	4.59			155	110	Peak
2483.5	47.52	42.86	4.66	54	-6.48	155	110	Average
2483.5	57.11	52.45	4.66	74	-16.89	155	110	Peak
4874	42.76	32.55	10.21	54	-11.24	106	247	Average
4874	48.97	38.76	10.21	74	-25.03	106	247	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	41.02	36.52	4.5	54	-12.98	334	347	Average
2390	51.73	47.23	4.5	74	-22.27	334	347	Peak
2437	100.41	95.82	4.59			334	347	Average
2437	107.29	102.7	4.59			334	347	Peak
2483.5	43.32	38.66	4.66	54	-10.68	334	347	Average
2483.5	54.15	49.49	4.66	74	-19.85	334	347	Peak
4874	42.48	32.27	10.21	54	-11.52	210	128	Average
4874	48.65	38.44	10.21	74	-25.35	210	128	Peak

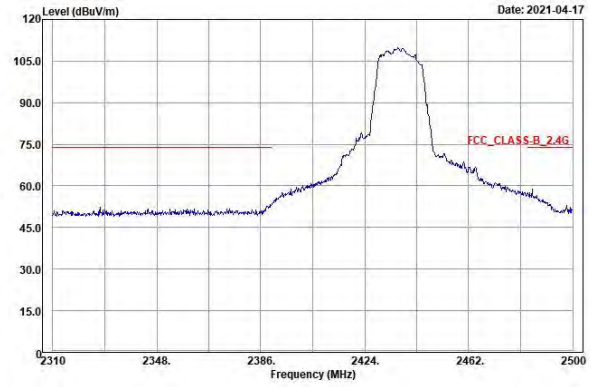
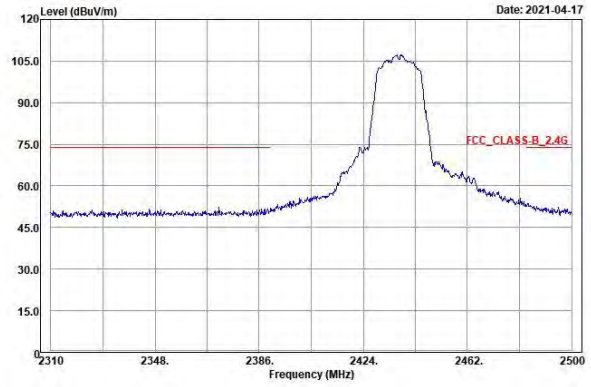
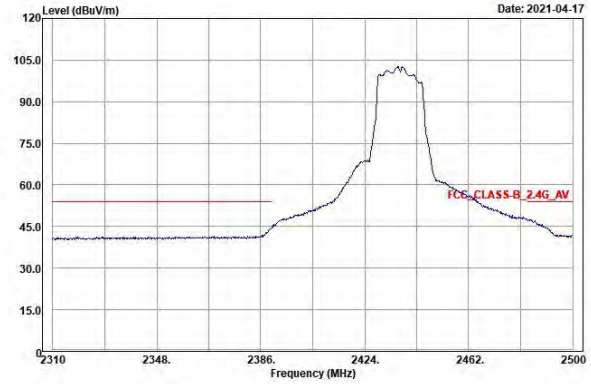
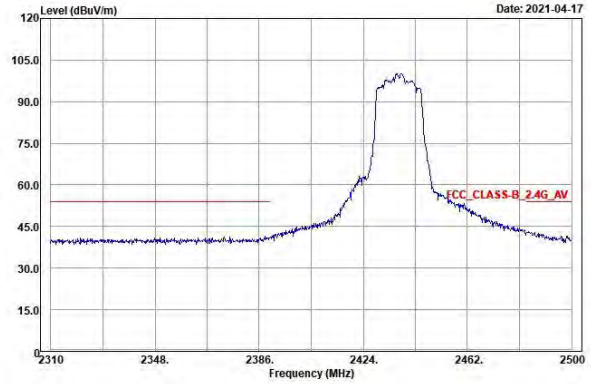
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

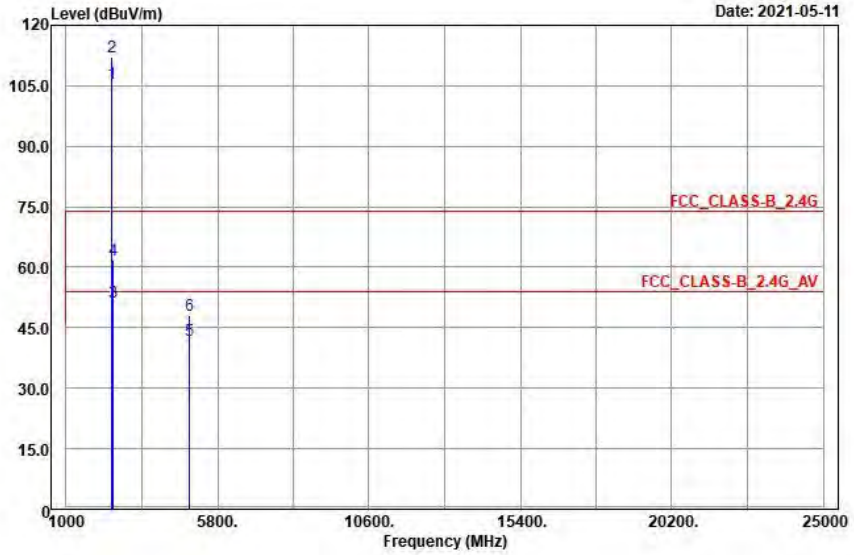
2. 2437 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

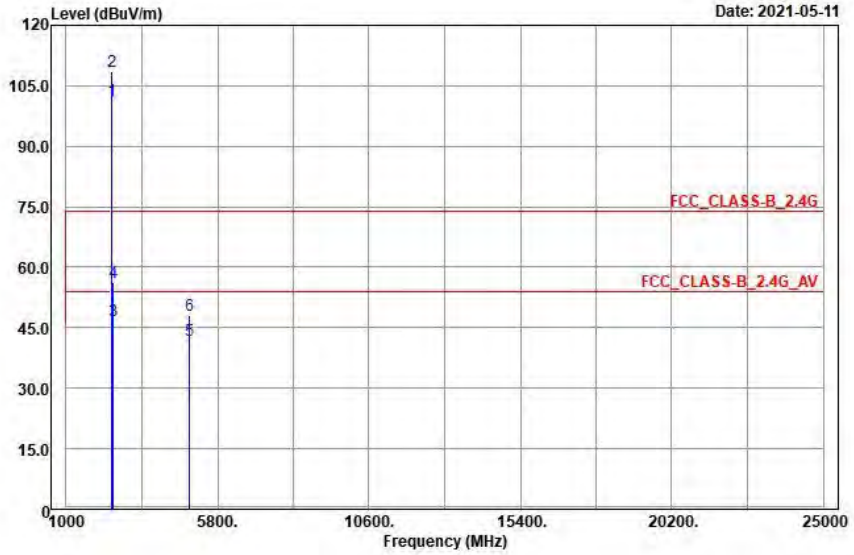
Ch 6	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 10	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	105.54	100.92	4.62			155	119	Average
2457	112.12	107.5	4.62			155	119	Peak
2483.5	51.3	46.64	4.66	54	-2.7	155	119	Average
2483.5	61.92	57.26	4.66	74	-12.08	155	119	Peak
4914	41.92	31.77	10.15	54	-12.08	131	178	Average
4914	48.19	38.04	10.15	74	-25.81	131	178	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	101.29	96.67	4.62			334	347	Average
2457	108.4	103.78	4.62			334	347	Peak
2483.5	46.84	42.18	4.66	54	-7.16	334	347	Average
2483.5	56.15	51.49	4.66	74	-17.85	334	347	Peak
4914	41.86	31.71	10.15	54	-12.14	226	172	Average
4914	48.13	37.98	10.15	74	-25.87	226	172	Peak

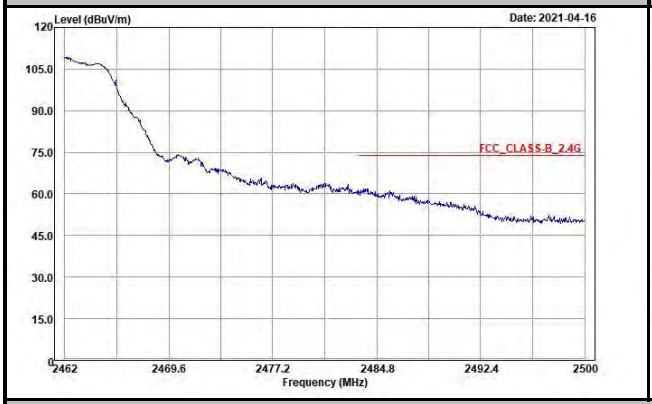
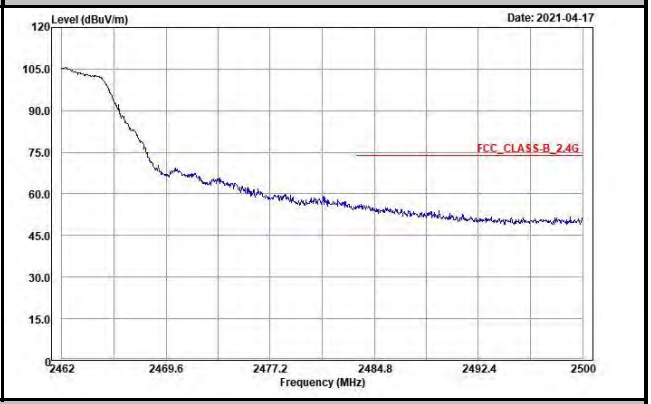
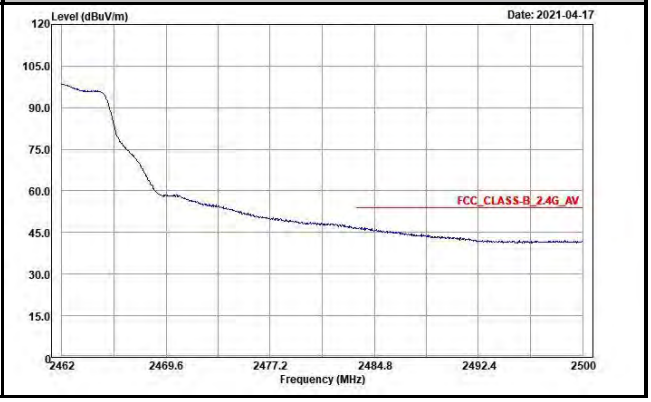
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

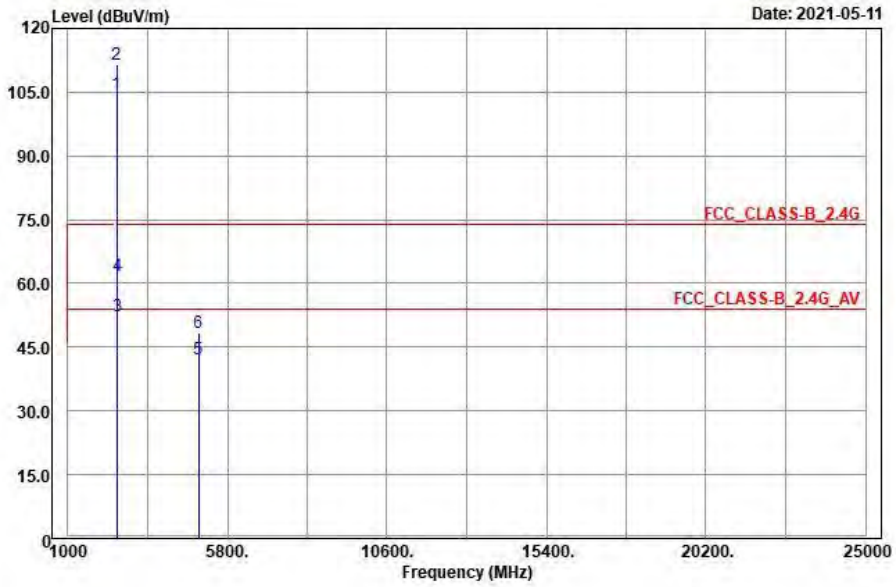
2. 2457 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

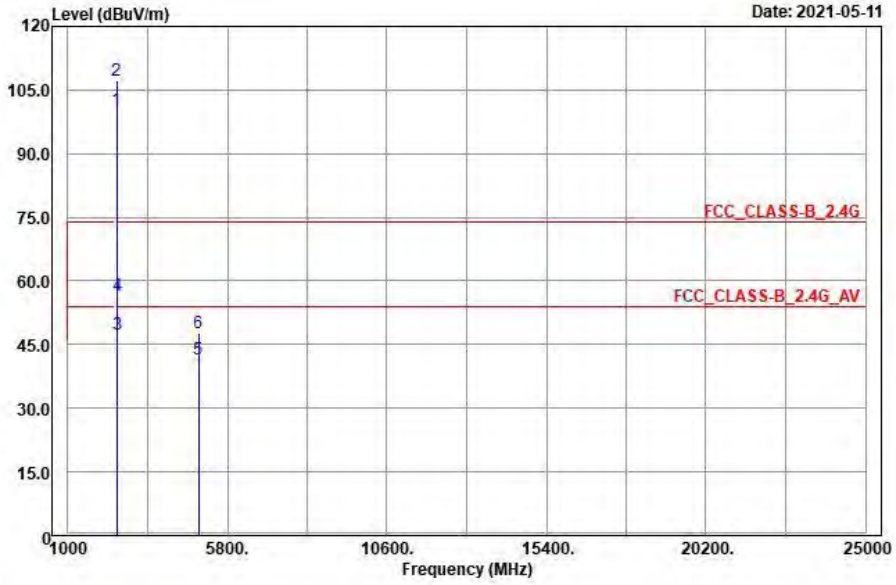
Ch 10	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 11	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	104.57	99.95	4.62			155	119	Average
2462	111.36	106.74	4.62			155	119	Peak
2483.5	52.25	47.59	4.66	54	-1.75	155	119	Average
2483.5	61.73	57.07	4.66	74	-12.27	155	119	Peak
4924	42.16	31.91	10.25	54	-11.84	112	294	Average
4924	48.33	38.08	10.25	74	-25.67	112	294	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	100.51	95.89	4.62			334	347	Average
2462	107.11	102.49	4.62			334	347	Peak
2483.5	47.55	42.89	4.66	54	-6.45	334	347	Average
2483.5	56.47	51.81	4.66	74	-17.53	334	347	Peak
4924	41.54	31.29	10.25	54	-12.46	267	103	Average
4924	47.68	37.43	10.25	74	-26.32	267	103	Peak

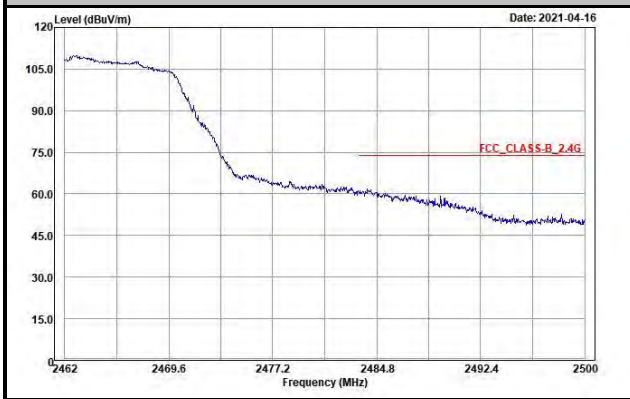
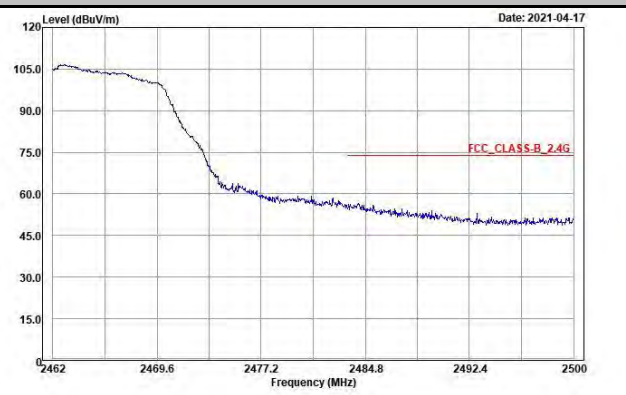
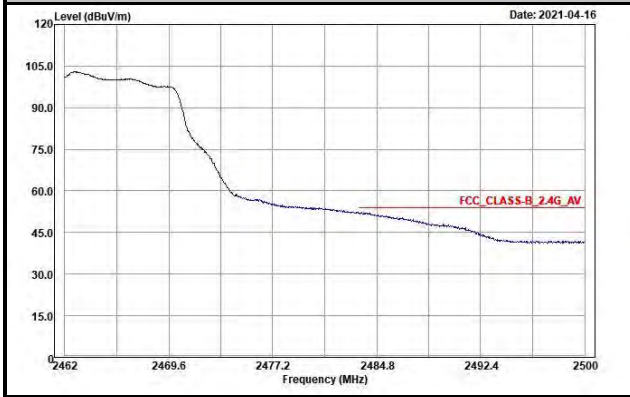
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

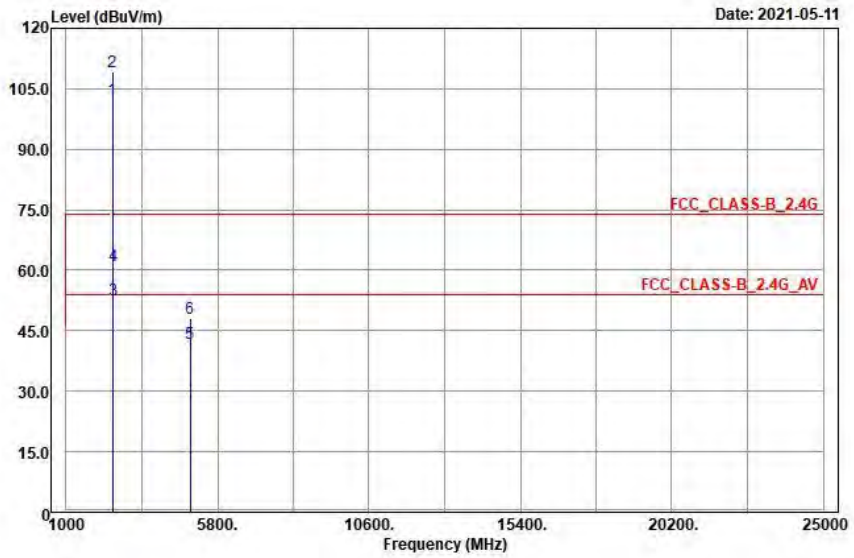
2. 2462 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

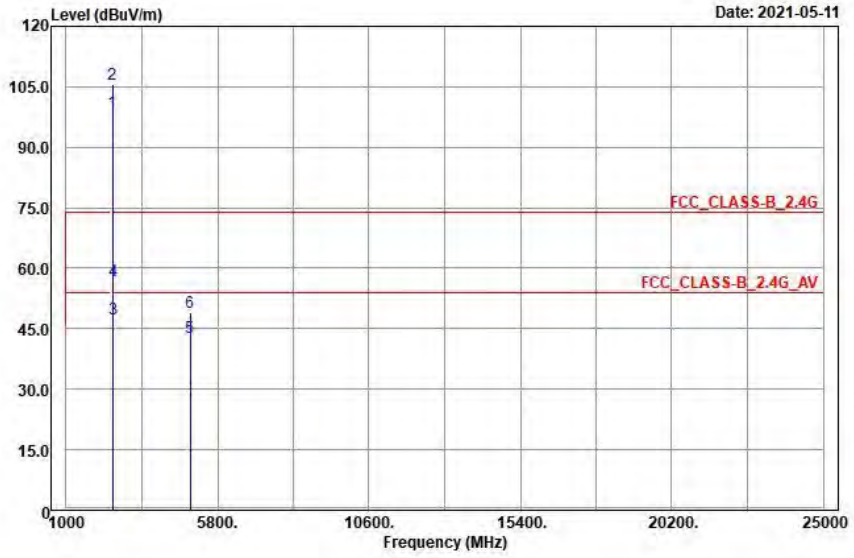
Ch 11	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 12	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



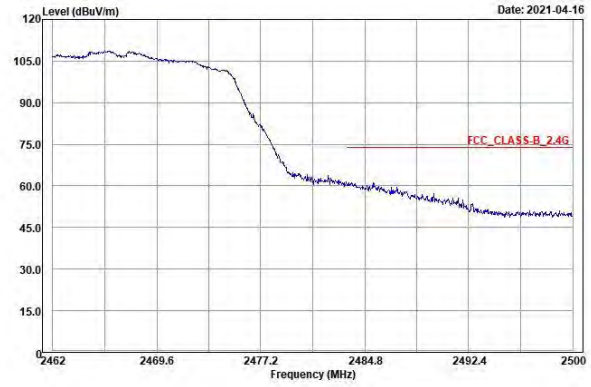
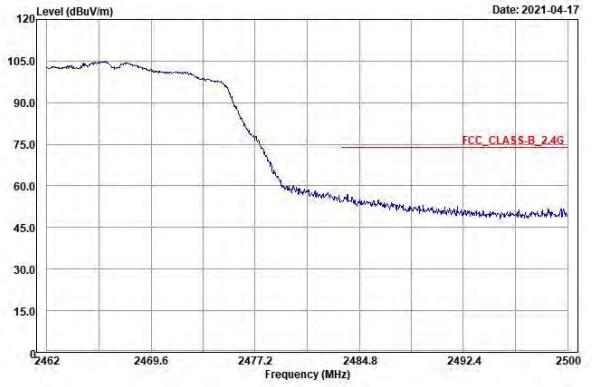
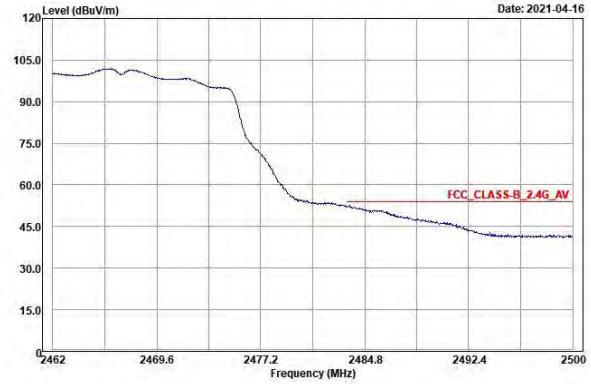
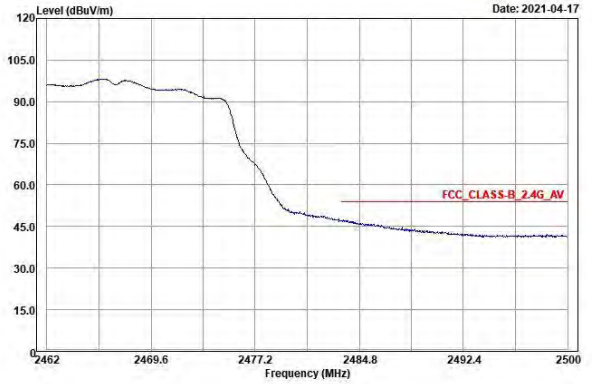
Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2467	102.44	97.81	4.63			155	119	Average
2467	109.31	104.68	4.63			155	119	Peak
2483.5	52.49	47.83	4.66	54	-1.51	155	119	Average
2483.5	61.26	56.6	4.66	74	-12.74	155	119	Peak
4934	41.88	31.62	10.26	54	-12.12	107	26	Average
4934	48	37.74	10.26	74	-26	107	26	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2467	98.85	94.22	4.63			334	347	Average
2467	105.73	101.1	4.63			334	347	Peak
2483.5	47.34	42.68	4.66	54	-6.66	334	347	Average
2483.5	56.98	52.32	4.66	74	-17.02	334	347	Peak
4934	42.74	32.48	10.26	54	-11.26	129	136	Average
4934	48.98	38.72	10.26	74	-25.02	129	136	Peak

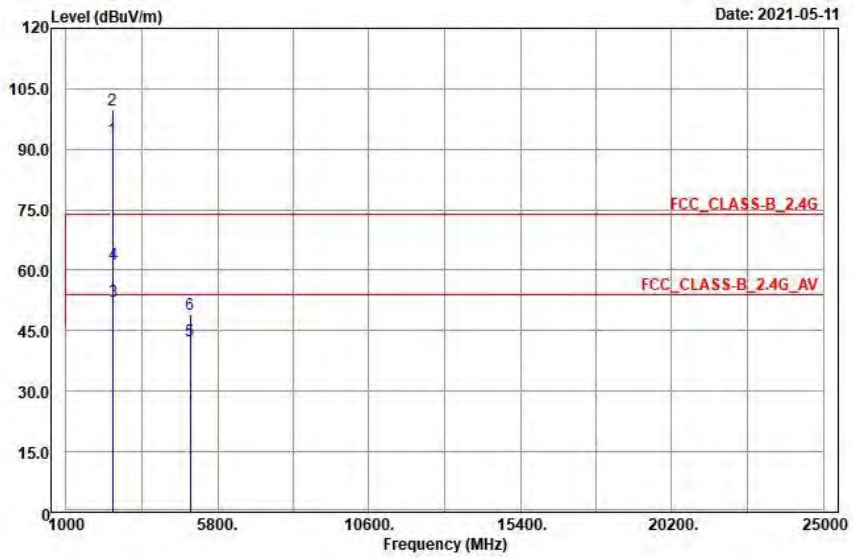
Remarks:

1. Emission Level = Read Level + Factor
   Margin Value = Emission Level – Limit value
2. 2467 MHz: Fundamental Frequency.
3. The other emission levels were very low against the limit.

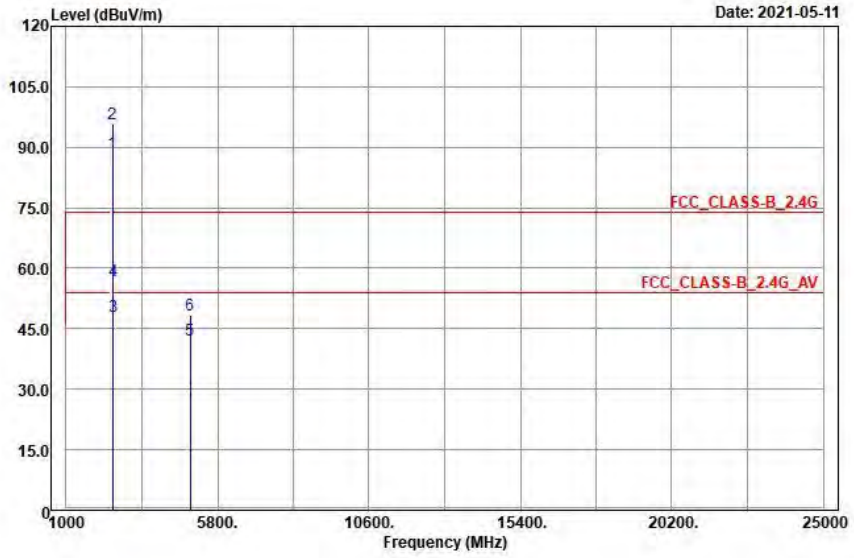
Ch 12	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 13	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2472	92.57	87.93	4.64			155	129	Average
2472	99.61	94.97	4.64			155	129	Peak
2483.5	52.19	47.53	4.66	54	-1.81	155	129	Average
2483.5	61.47	56.81	4.66	74	-12.53	155	129	Peak
4944	42.62	32.27	10.35	54	-11.38	126	28	Average
4944	48.89	38.54	10.35	74	-25.11	126	28	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2472	88.51	83.87	4.64			334	347	Average
2472	95.7	91.06	4.64			334	347	Peak
2483.5	48.01	43.35	4.66	54	-5.99	334	347	Average
2483.5	57	52.34	4.66	74	-17	334	347	Peak
4944	42.2	31.85	10.35	54	-11.8	251	108	Average
4944	48.32	37.97	10.35	74	-25.68	251	108	Peak

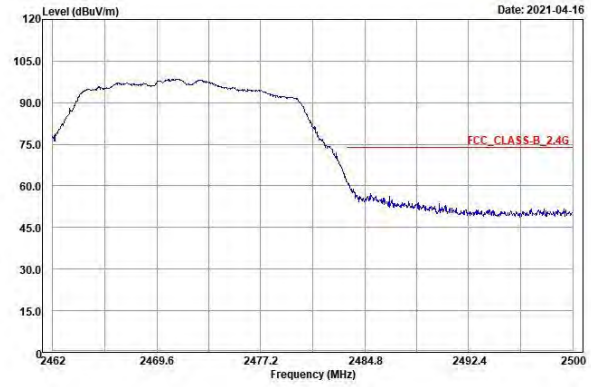
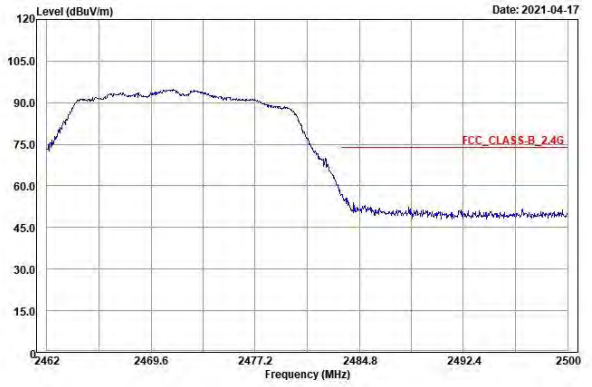
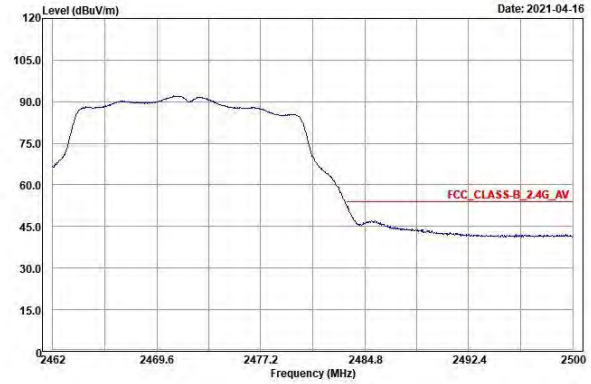
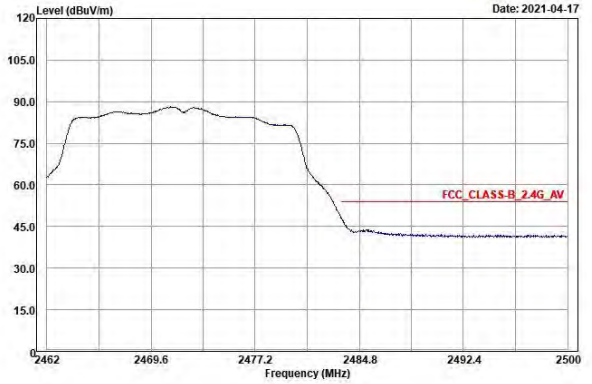
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

2. 2472 MHz: Fundamental Frequency.

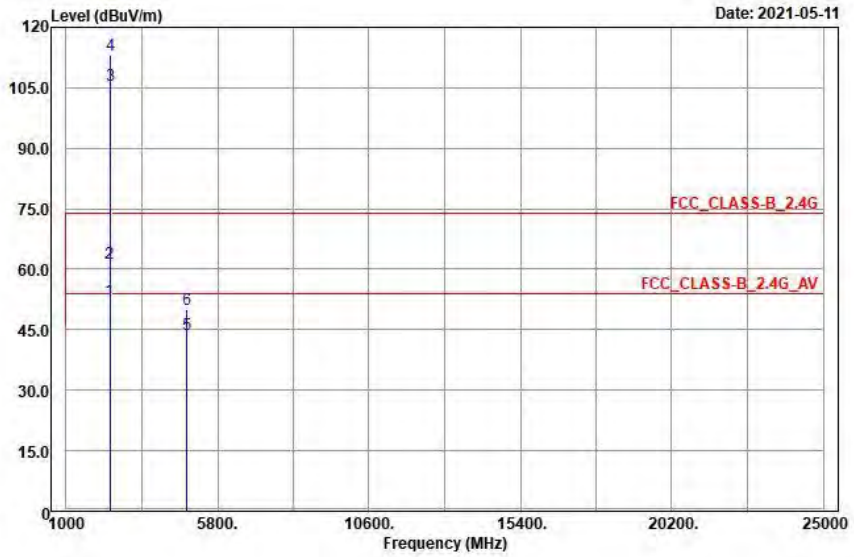
3. The other emission levels were very low against the limit.

Ch 13	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

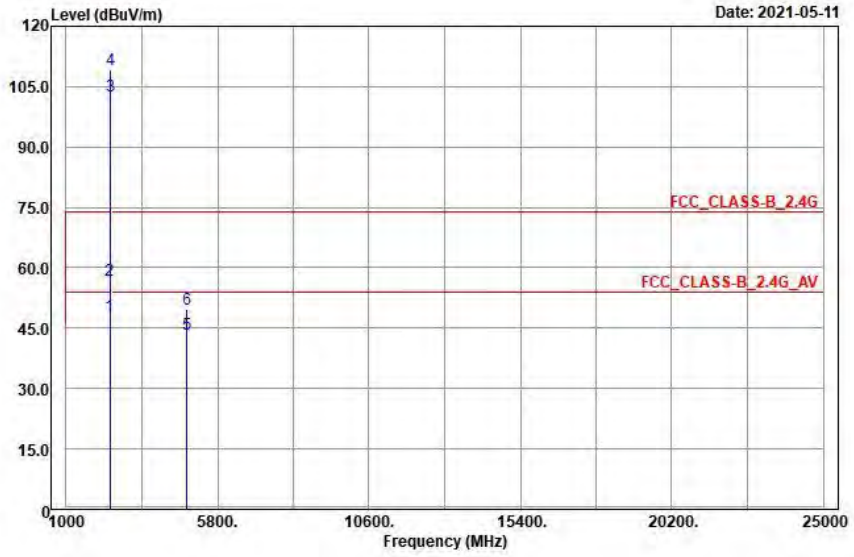
802.11n (VHT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 1	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



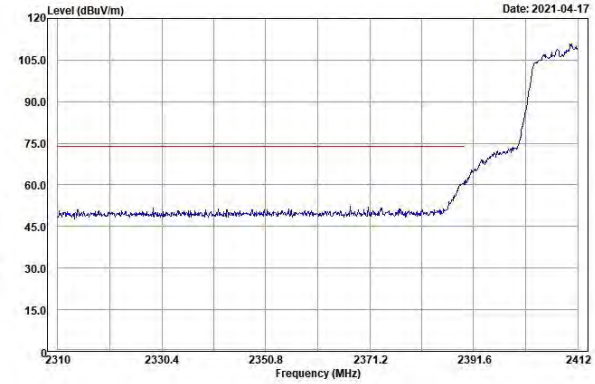
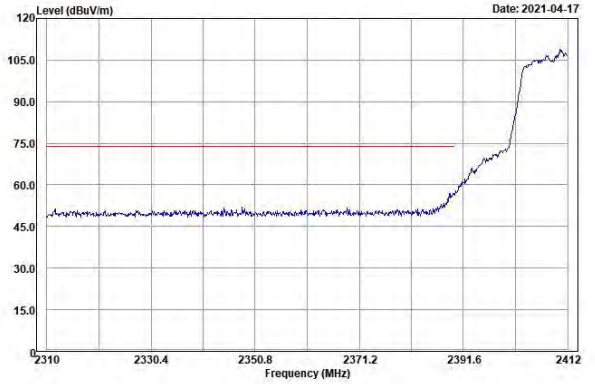
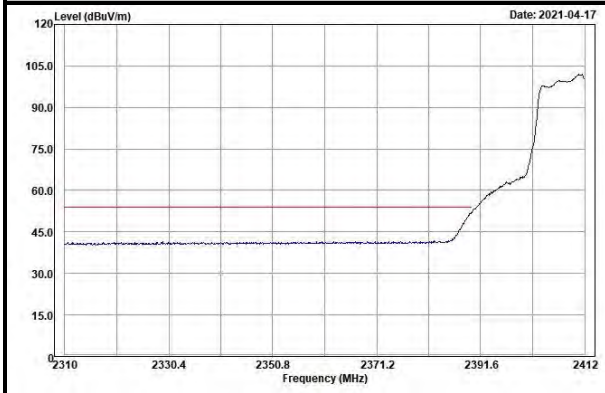
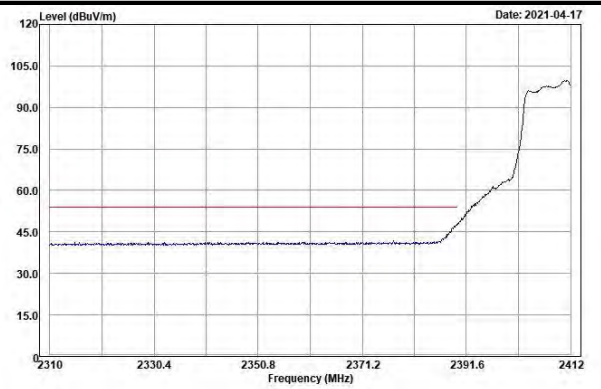
Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	52.25	47.75	4.5	54	-1.75	169	117	Average
2390	61.58	57.08	4.5	74	-12.42	169	117	Peak
2412	105.67	101.12	4.55			169	117	Average
2412	112.98	108.43	4.55			169	117	Peak
4824	43.69	33.4	10.29	54	-10.31	221	114	Average
4824	50.15	39.86	10.29	74	-23.85	221	114	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	48.14	43.64	4.5	54	-5.86	355	347	Average
2390	57.02	52.52	4.5	74	-16.98	355	347	Peak
2412	102.58	98.03	4.55			355	347	Average
2412	109.27	104.72	4.55			355	347	Peak
4824	43.5	33.21	10.29	54	-10.5	152	174	Average
4824	49.61	39.32	10.29	74	-24.39	152	174	Peak

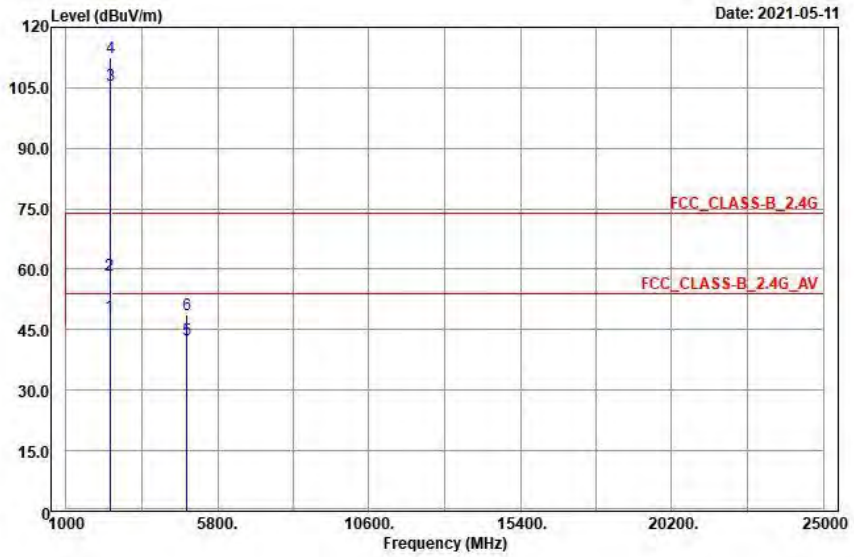
Remarks:

1. Emission Level = Read Level + Factor
   Margin Value = Emission Level – Limit value
2. 2412 MHz: Fundamental Frequency.
3. The other emission levels were very low against the limit.

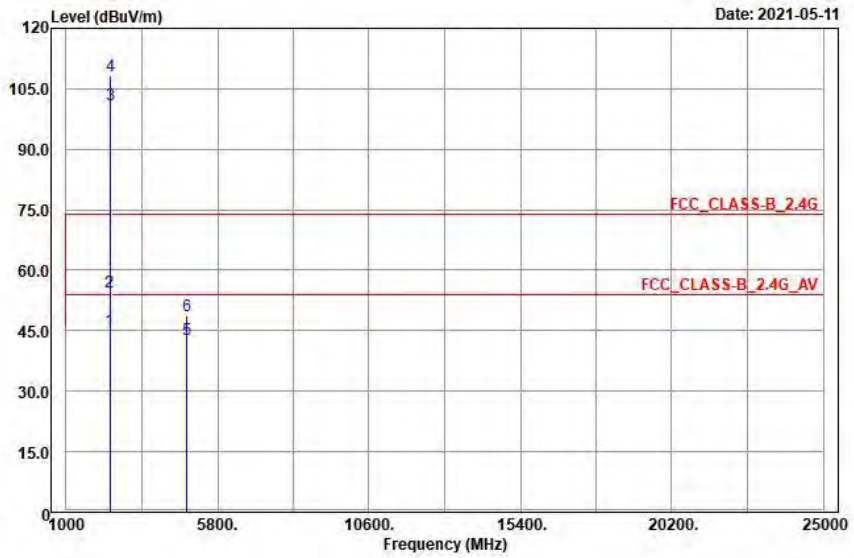
Ch 1	
Peak	
Horizontal	**Vertical**
	
Average	
Horizontal	**Vertical**
	

EUT Test Condition		Measurement Detail	
Channel	Channel 2	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	48.47	43.97	4.5	54	-5.53	169	117	Average
2390	58.64	54.14	4.5	74	-15.36	169	117	Peak
2417	105.59	101.05	4.54			169	117	Average
2417	112.54	108	4.54			169	117	Peak
4834	42.59	32.3	10.29	54	-11.41	118	256	Average
4834	48.79	38.5	10.29	74	-25.21	118	256	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	45.19	40.69	4.5	54	-8.81	355	347	Average
2390	54.51	50.01	4.5	74	-19.49	355	347	Peak
2417	101.19	96.65	4.54			355	347	Average
2417	108.18	103.64	4.54			355	347	Peak
4834	42.76	32.47	10.29	54	-11.24	228	54	Average
4834	48.87	38.58	10.29	74	-25.13	228	54	Peak

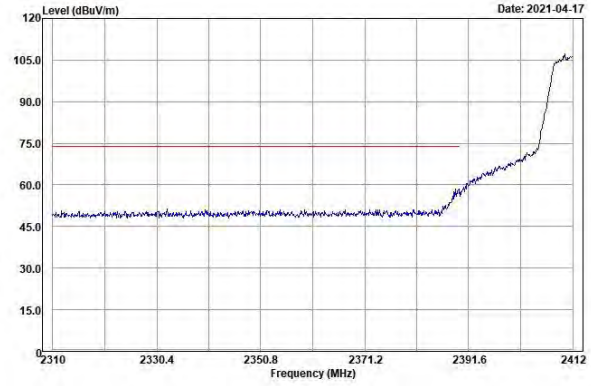
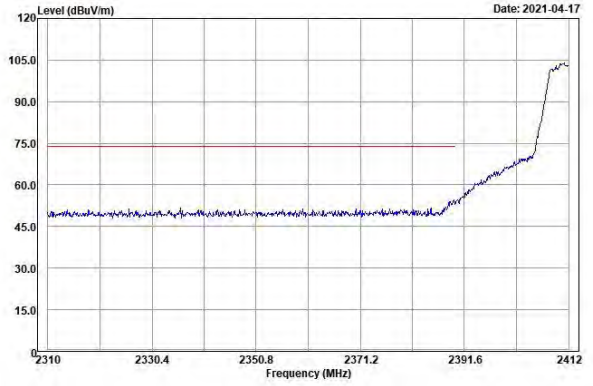
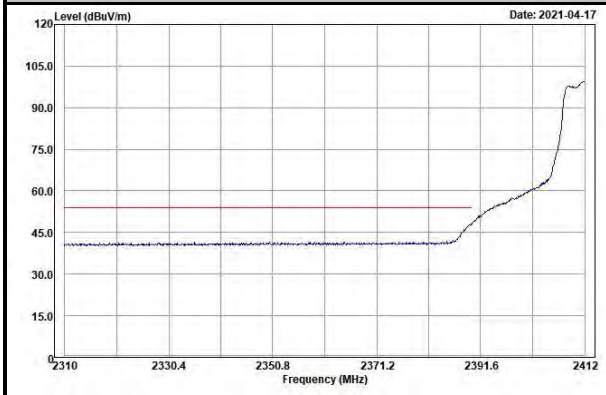
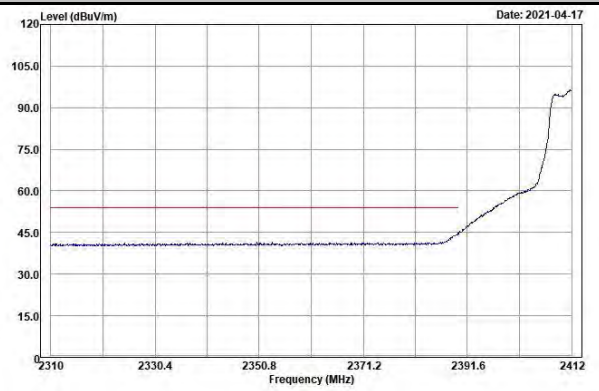
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

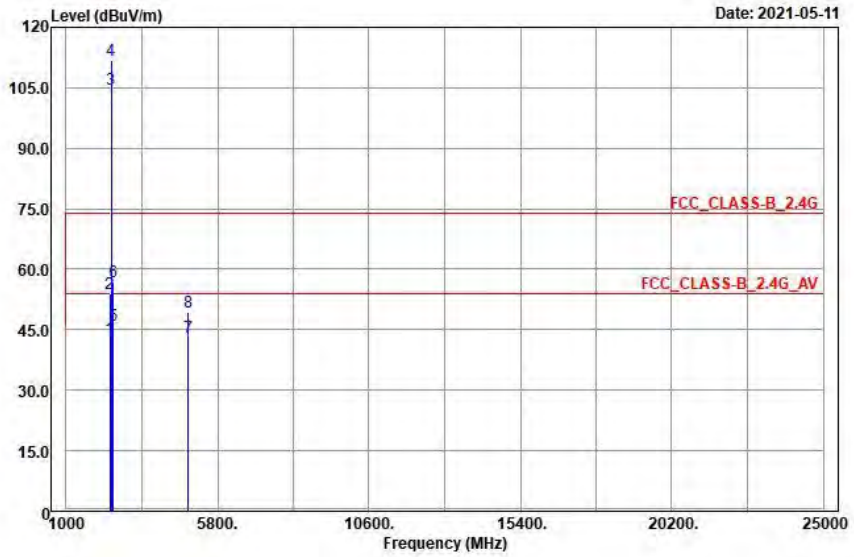
2. 2417 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

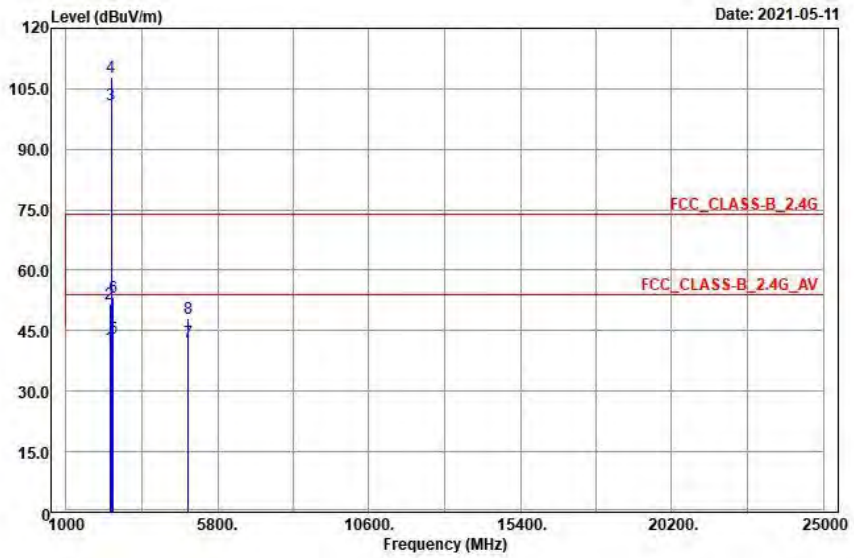
Ch 2	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 6	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	42.87	38.37	4.5	54	-11.13	169	117	Average
2390	54.03	49.53	4.5	74	-19.97	169	117	Peak
2437	104.57	99.98	4.59			169	117	Average
2437	111.81	107.22	4.59			169	117	Peak
2483.5	46.15	41.49	4.66	54	-7.85	169	117	Average
2483.5	56.93	52.27	4.66	74	-17.07	169	117	Peak
4874	43.28	33.07	10.21	54	-10.72	105	179	Average
4874	49.5	39.29	10.21	74	-24.5	105	179	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	40.8	36.3	4.5	54	-13.2	333	347	Average
2390	51.8	47.3	4.5	74	-22.2	333	347	Peak
2437	100.89	96.3	4.59			333	347	Average
2437	107.92	103.33	4.59			333	347	Peak
2483.5	43.22	38.56	4.66	54	-10.78	333	347	Average
2483.5	53.36	48.7	4.66	74	-20.64	333	347	Peak
4874	42.06	31.85	10.21	54	-11.94	182	36	Average
4874	48.21	38	10.21	74	-25.79	182	36	Peak

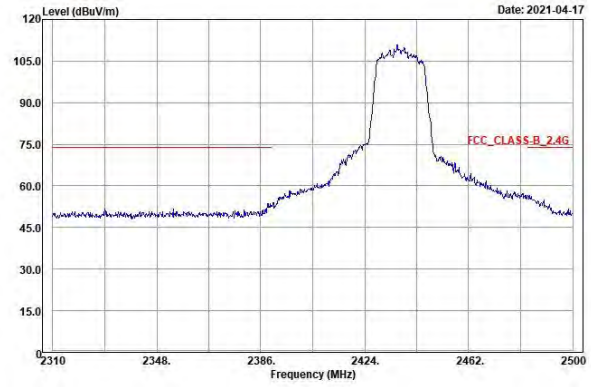
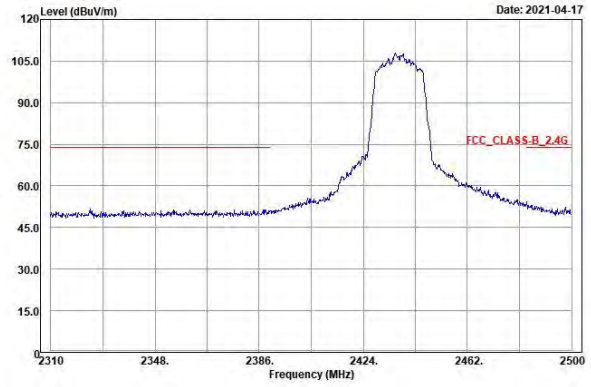
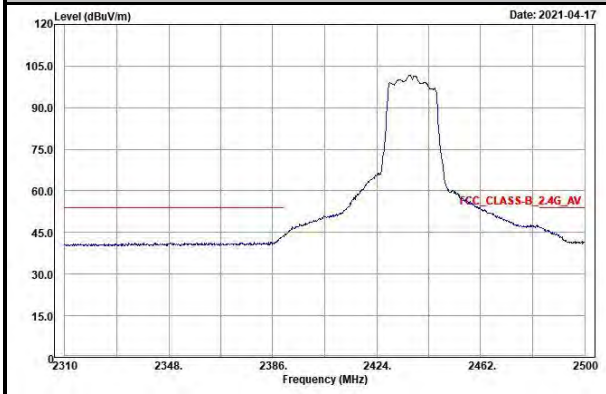
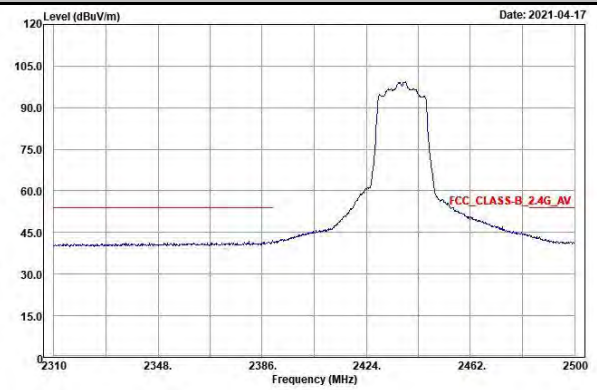
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

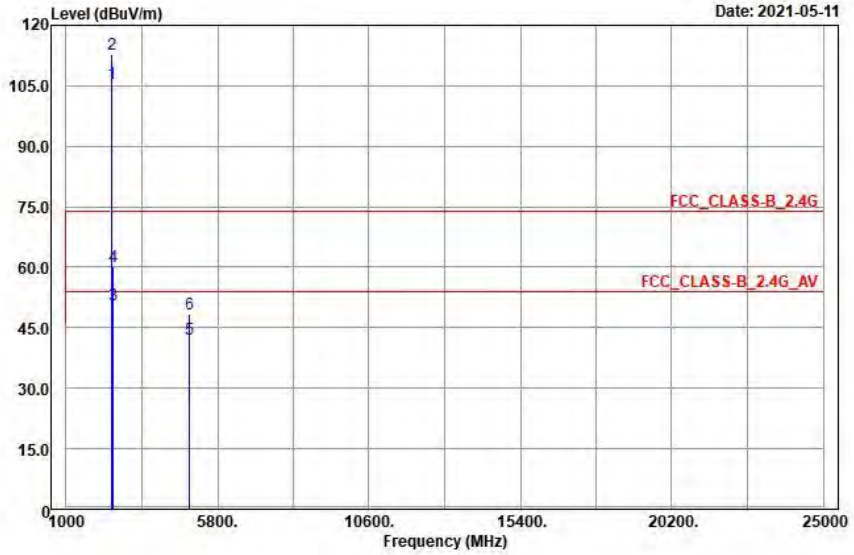
2. 2437 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

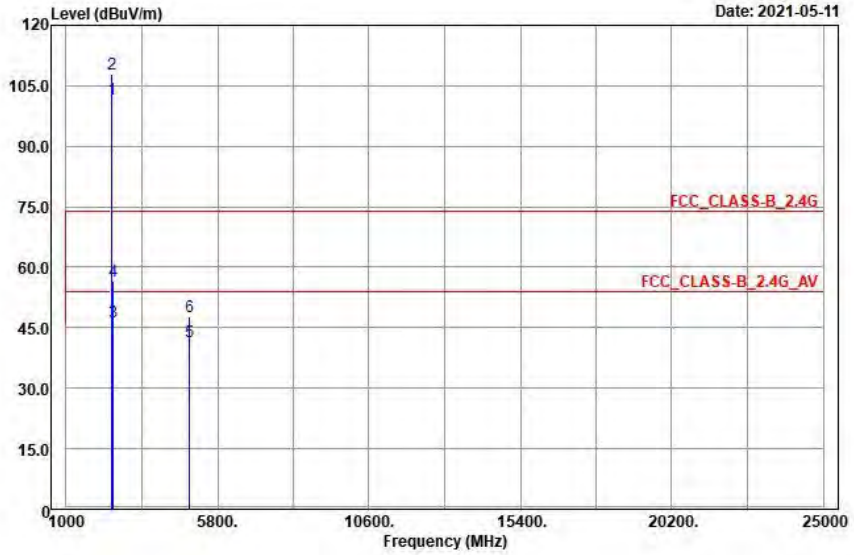
Ch 6	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 10	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	105.61	100.99	4.62			155	119	Average
2457	112.81	108.19	4.62			155	119	Peak
2483.5	50.59	45.93	4.66	54	-3.41	155	119	Average
2483.5	60.18	55.52	4.66	74	-13.82	155	119	Peak
4914	42.09	31.94	10.15	54	-11.91	150	38	Average
4914	48.26	38.11	10.15	74	-25.74	150	38	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	101.84	97.22	4.62			333	347	Average
2457	108.02	103.4	4.62			333	347	Peak
2483.5	46.28	41.62	4.66	54	-7.72	333	347	Average
2483.5	56.53	51.87	4.66	74	-17.47	333	347	Peak
4914	41.46	31.31	10.15	54	-12.54	236	328	Average
4914	47.66	37.51	10.15	74	-26.34	236	328	Peak

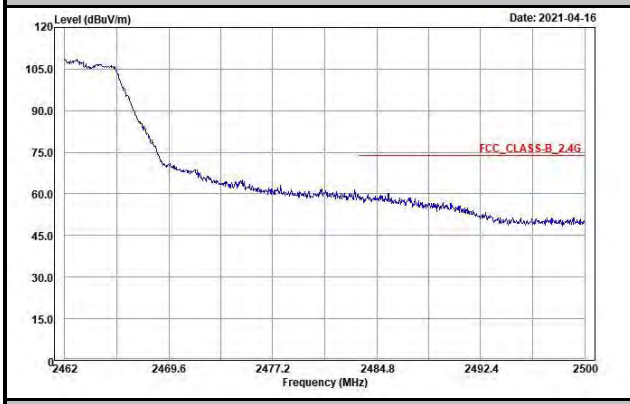
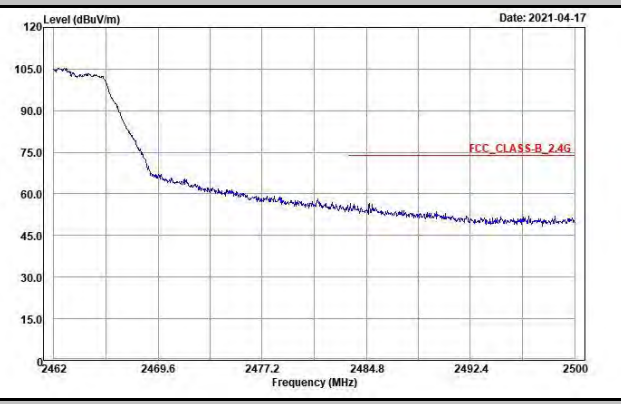
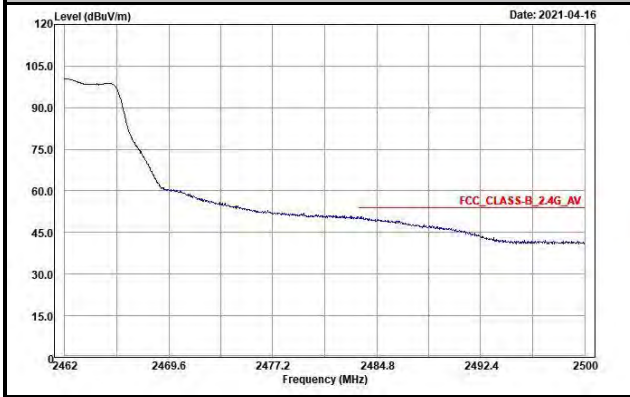
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

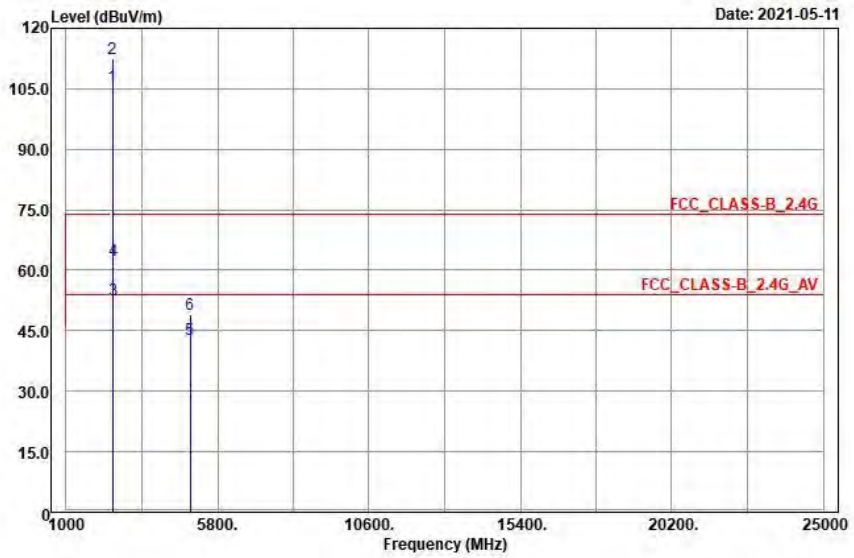
2. 2457 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

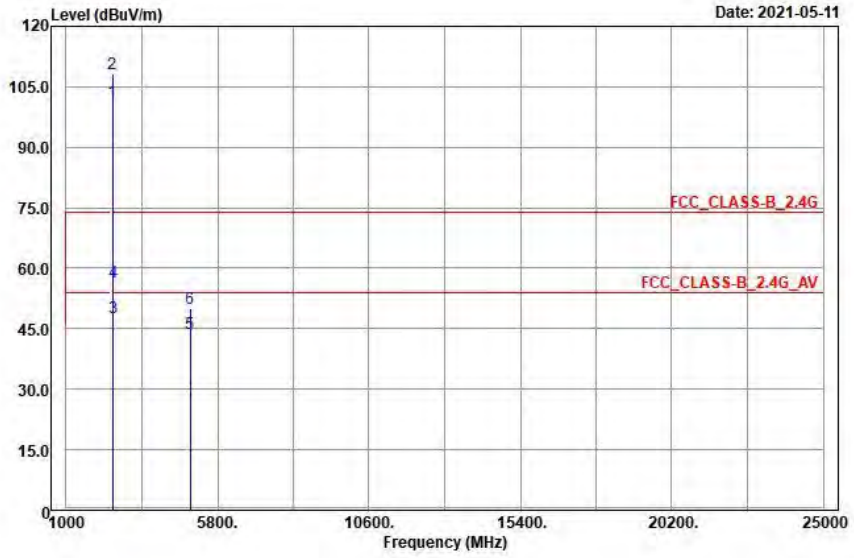
Ch 10	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 11	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2462	105.62	101	4.62			155	119	Average
2462	112.46	107.84	4.62			155	119	Peak
2483.5	**52.5**	**47.84**	**4.66**	**54**	**-1.5**	**155**	**119**	**Average**
2483.5	62.56	57.9	4.66	74	-11.44	155	119	Peak
4924	42.85	32.6	10.25	54	-11.15	104	129	Average
4924	48.98	38.73	10.25	74	-25.02	104	129	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2462	101.41	96.79	4.62			333	347	Average
2462	108.26	103.64	4.62			333	347	Peak
2483.5	47.75	43.09	4.66	54	-6.25	333	347	Average
2483.5	56.72	52.06	4.66	74	-17.28	333	347	Peak
4924	43.83	33.58	10.25	54	-10.17	282	127	Average
4924	50.04	39.79	10.25	74	-23.96	282	127	Peak

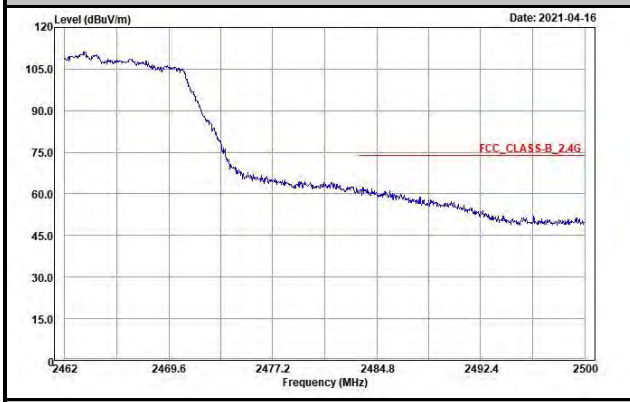
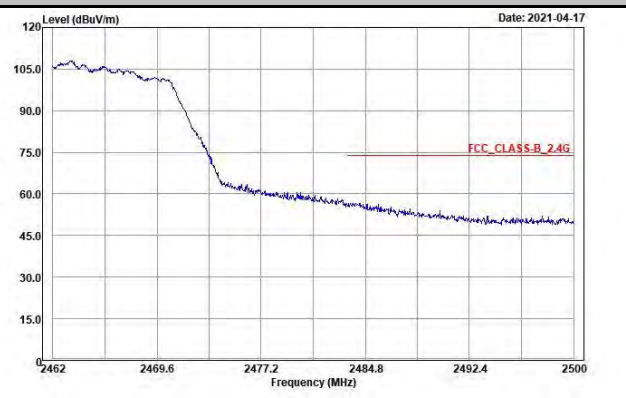
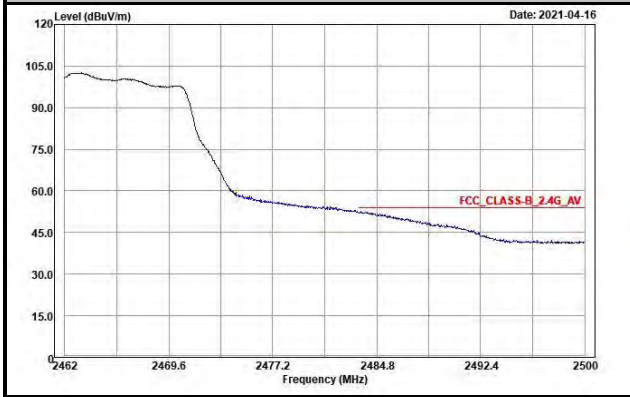
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

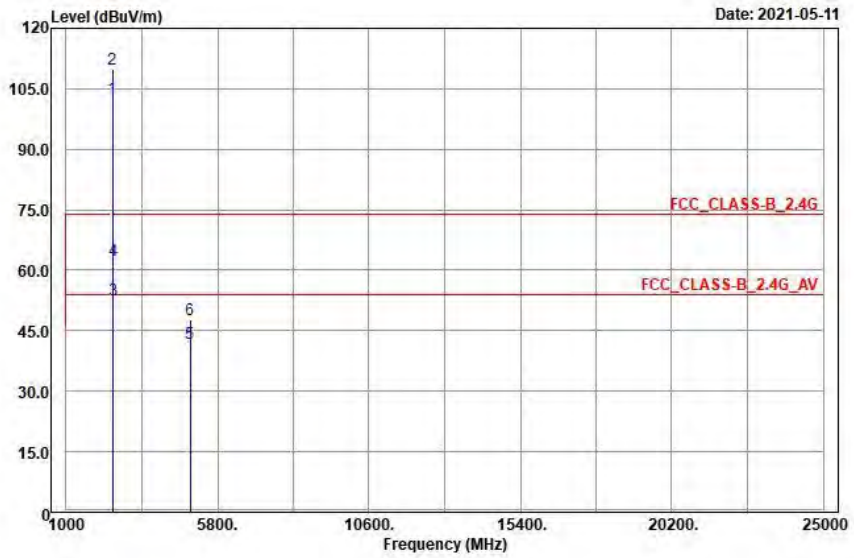
2. 2462 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

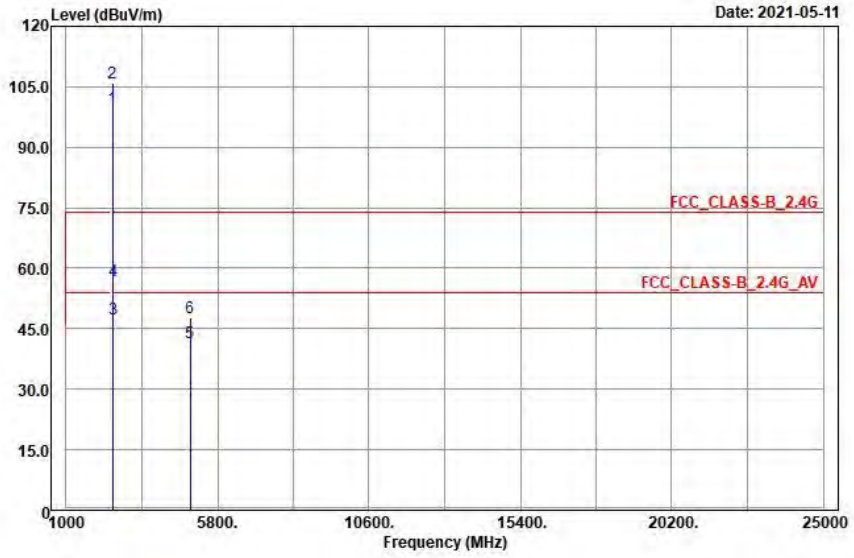
Ch 11	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 12	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2467	102.68	98.05	4.63			155	119	Average
2467	109.95	105.32	4.63			155	119	Peak
2483.5	**52.5**	**47.84**	**4.66**	**54**	**-1.5**	**155**	**119**	**Average**
2483.5	62.41	57.75	4.66	74	-11.59	155	119	Peak
4934	41.74	31.48	10.26	54	-12.26	181	132	Average
4934	47.9	37.64	10.26	74	-26.1	181	132	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	**Emission Level (dBuV/m)**	**Read Level (dBuV)**	**Factor (dB/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (cm)**	**Table Angle (Degree)**	**Remark**
2467	99.85	95.22	4.63			333	347	Average
2467	106.01	101.38	4.63			333	347	Peak
2483.5	47.53	42.87	4.66	54	-6.47	333	347	Average
2483.5	56.81	52.15	4.66	74	-17.19	333	347	Peak
4934	41.63	31.37	10.26	54	-12.37	281	134	Average
4934	47.87	37.61	10.26	74	-26.13	281	134	Peak

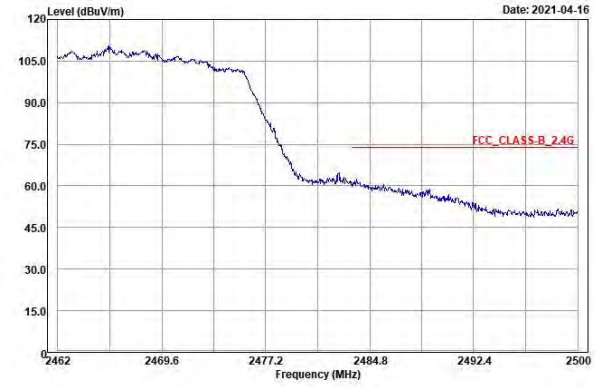
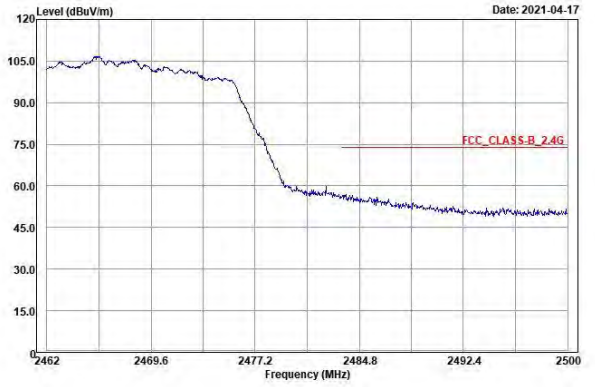
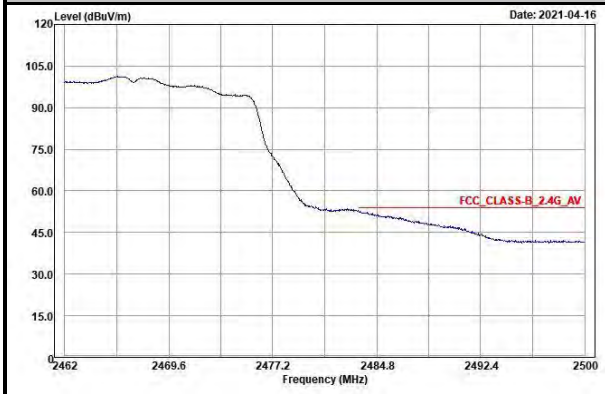
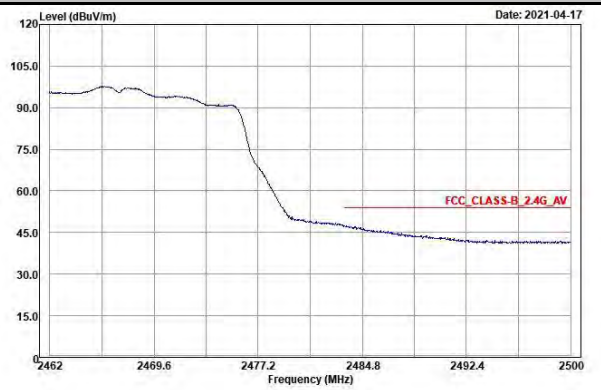
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

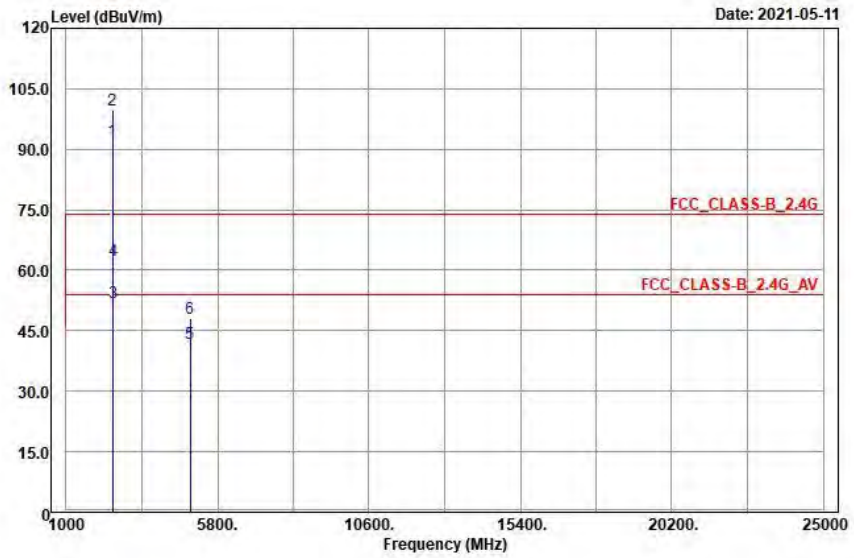
2. 2467 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

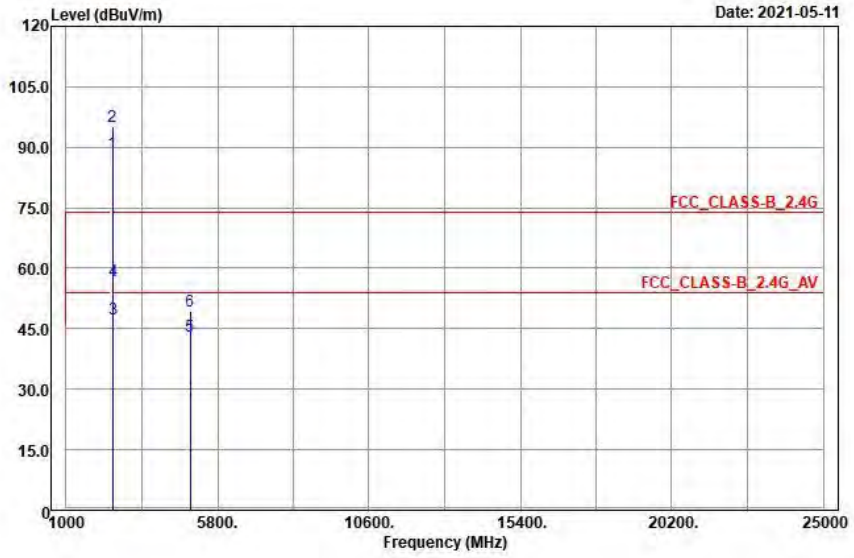
Ch 12	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical
	

EUT Test Condition		Measurement Detail	
Channel	Channel 13	**Frequency Range**	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	**Detector Function**	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	**Tested By**	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2472	92.33	87.69	4.64			155	119	Average
2472	99.84	95.2	4.64			155	119	Peak
2483.5	52.1	47.44	4.66	54	-1.9	155	119	Average
2483.5	62.29	57.63	4.66	74	-11.71	155	119	Peak
4944	41.84	31.49	10.35	54	-12.16	192	172	Average
4944	48.06	37.71	10.35	74	-25.94	192	172	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2472	88.52	83.88	4.64			333	347	Average
2472	95.04	90.4	4.64			333	347	Peak
2483.5	47.51	42.85	4.66	54	-6.49	333	347	Average
2483.5	56.74	52.08	4.66	74	-17.26	333	347	Peak
4944	43.11	32.76	10.35	54	-10.89	127	323	Average
4944	49.36	39.01	10.35	74	-24.64	127	323	Peak

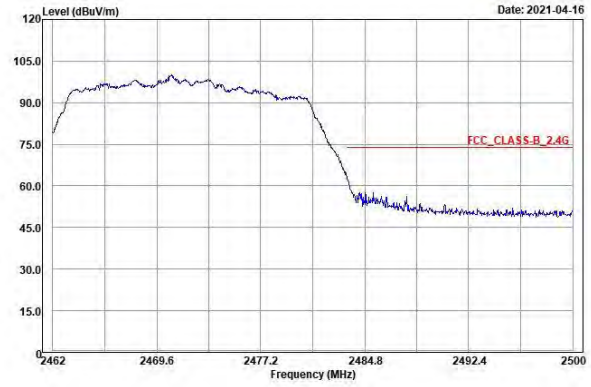
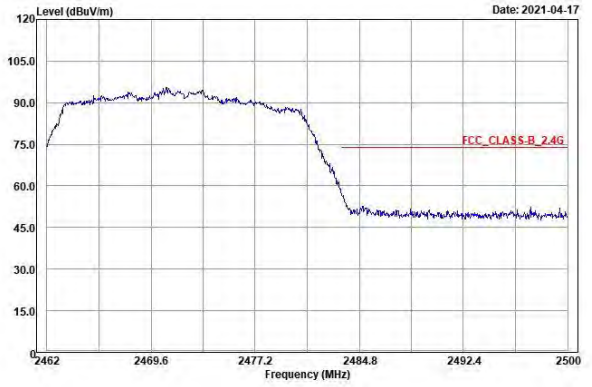
Remarks:

1. Emission Level = Read Level + Factor

   Margin Value = Emission Level – Limit value

2. 2472 MHz: Fundamental Frequency.

3. The other emission levels were very low against the limit.

Ch 13	
Peak	
Horizontal	Vertical
	
Average	
Horizontal	Vertical