

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
Report No.: RFBFBE-WTW-P23080579
FCC ID: Z8H89FT0080
Product: RV22 Wi-Fi 6 Home MESH Router dual band
Brand: Cambium Networks
Model No.: RV22
Received Date: 2023/8/29
Test Date: 2023/8/30 ~ 2023/9/12
Issued Date: 2023/10/26
Applicant: Cambium Networks Inc.
Address: 3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA
Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory
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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
FCC Registration / 723255 / TW2022
Designation Number:

Approved by:  , **Date:** 2023/10/26
May Chen / Manager

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Prepared by : Phoebe Wang / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBFBE-WTW-P23080579	Original release.	2023/10/26

1 Certificate

Product: RV22 Wi-Fi 6 Home MESH Router dual band
Brand: Cambium Networks
Test Model: RV22
Sample Status: Engineering sample
Applicant: Cambium Networks Inc.
Test Date: 2023/8/30 ~ 2023/9/12
Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
Measurement procedure: ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02
KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
Standard / Clause	Test Item	Result	Remark
15.247(b)	RF Output Power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.247(d)	Conducted Out of Band Emissions	Pass	Meet the requirement of limit.
15.207	AC Power Conducted Emissions	Pass	Minimum passing margin is -15.51 dB at 0.15000 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -4.3 dB at 106.15 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.2 dB at 2390.00 and 2483.50 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

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	Specification	Expanded Uncertainty (k=2) (±)
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.5 dB
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.4 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.0 dB
	18 GHz ~ 40 GHz	5.3 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description

Product	RV22 Wi-Fi 6 Home MESH Router dual band
Brand	Cambium Networks
Test Model	RV22
Status of EUT	Engineering sample
Power Supply Rating	12 Vdc from power adapter
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: up to 11 Mbps 802.11g: up to 54 Mbps 802.11n: up to 300 Mbps VHT: up to 400 Mbps 802.11ax: up to 573.5 Mbps
Operating Frequency	2.412 GHz ~ 2.462 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20): 11 802.11n (HT40), VHT40, 802.11ax (HE40): 7
Output Power	CDD Mode: 984.121 mW (29.93 dBm) Beamforming Mode: 967.236 mW (29.86 dBm)

Note:

1. The EUT uses following accessories.

AC Adapter					
Brand	Model	AC Input	DC Output	DC Output Cable	Plug
FRECOM	F18L16-120150SPAU	100-240 V, 50/60 Hz, 0.6 A	12 V==1.5 A	1.5 m without core non-shielded	US
Ethernet Cable					
Specification					
1.5 m without core non-shielded					

2. There are WLAN (2.4 GHz) and WLAN (5 GHz) technology used for the EUT.

3. Simultaneously transmission condition.

Condition	Technology	
1	WLAN 2.4 GHz	WLAN 5 GHz

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

4. 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 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
ANT 1	1	HWA YU	56-001-000448Z	4.73	2.4~2.4835	Dipole	ipex(MHF)
ANT 2	2	HWA YU	56-001-000449Z	5.36	2.4~2.4835	Dipole	ipex(MHF)
ANT 3	3	HWA YU	56-001-000450Z	3.95	5.15~5.25	Dipole	ipex(MHF)
				3.48	5.25~5.35		
				3.26	5.47~5.725		
				3.67	5.725~5.85		
ANT 4	4	HWA YU	56-001-000451Z	2.84	5.15~5.25	Dipole	ipex(MHF)
				2.84	5.25~5.35		
				3.81	5.47~5.725		
				2.67	5.725~5.85		
ANT 5	5	HWA YU	56-001-000452Z	3.24	5.15~5.25	Dipole	ipex(MHF)
				3.24	5.25~5.35		
				4.36	5.47~5.725		
				4.36	5.725~5.85		

2. The directional antenna gain, please refer to the following table:

Directional Antenna Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
5.81	2.4~2.4835	Dipole	ipex(MHF)
4.32	5.15~5.25		
4.32	5.25~5.35		
4.9	5.47~5.725		
5.25	5.725~5.85		

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

3. The EUT incorporates a MIMO function:

2.4 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11b	2TX	2RX
802.11g	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
VHT20	2TX	2RX
VHT40	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX

Note:

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

3.3 Channel List

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

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

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

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

3.4 Power Setting

Power Setting					
Channel	802.11b	802.11g	VHT20 CDD	Channel	VHT40 CDD
1	20	18	19	3	18.5
6	17.5	21	21.5	6	19.5
11	17	19	20	9	19.5

Power Setting							
Channel	802.11ax (HE20) CDD	Channel	802.11ax (HE40) CDD	Channel	VHT20 Beamforming	Channel	VHT40 Beamforming
1	19	3	18.5	1	19	3	18.5
6	21.5	6	19.5	6	21.5	6	19.5
11	20	9	19.5	11	20	9	19.5

Power Setting			
Channel	802.11ax (HE20) Beamforming	Channel	802.11ax (HE40) Beamforming
1	19	3	18.5
6	21.5	6	19.5
11	20	9	19.5

3.5 Test Mode Applicability and Tested Channel Detail

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
	802.11g	CDD	1, 6, 11	BPSK	6Mb/s
	VHT20	CDD & Beamforming	1, 6, 11	BPSK	MCS0
	VHT40	CDD & Beamforming	3, 6, 9	BPSK	MCS0
	802.11ax (HE20)	CDD & Beamforming	1, 6, 11	BPSK	MCS0
	802.11ax (HE40)	CDD & Beamforming	3, 6, 9	BPSK	MCS0
6 dB Bandwidth / Conducted Out of Band Emissions / Power Spectral Density	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
	802.11g	CDD	1, 6, 11	BPSK	6Mb/s
	802.11ax (HE20)	CDD	1, 6, 11	BPSK	MCS0
	802.11ax (HE40)	CDD	3, 6, 9	BPSK	MCS0
AC Power Conducted Emissions	802.11b	CDD	1	DBPSK	1Mb/s
Unwanted Emissions below 1 GHz	802.11b	CDD	1	DBPSK	1Mb/s
Unwanted Emissions above 1 GHz	802.11b	CDD	1, 6, 11	DBPSK	1Mb/s
	802.11g	CDD	1, 6, 11	BPSK	6Mb/s
	802.11ax (HE20)	CDD	1, 6, 11	BPSK	MCS0
	802.11ax (HE40)	CDD	3, 6, 9	BPSK	MCS0
Note: Partial RU (resource unit) mechanism is not supported.					

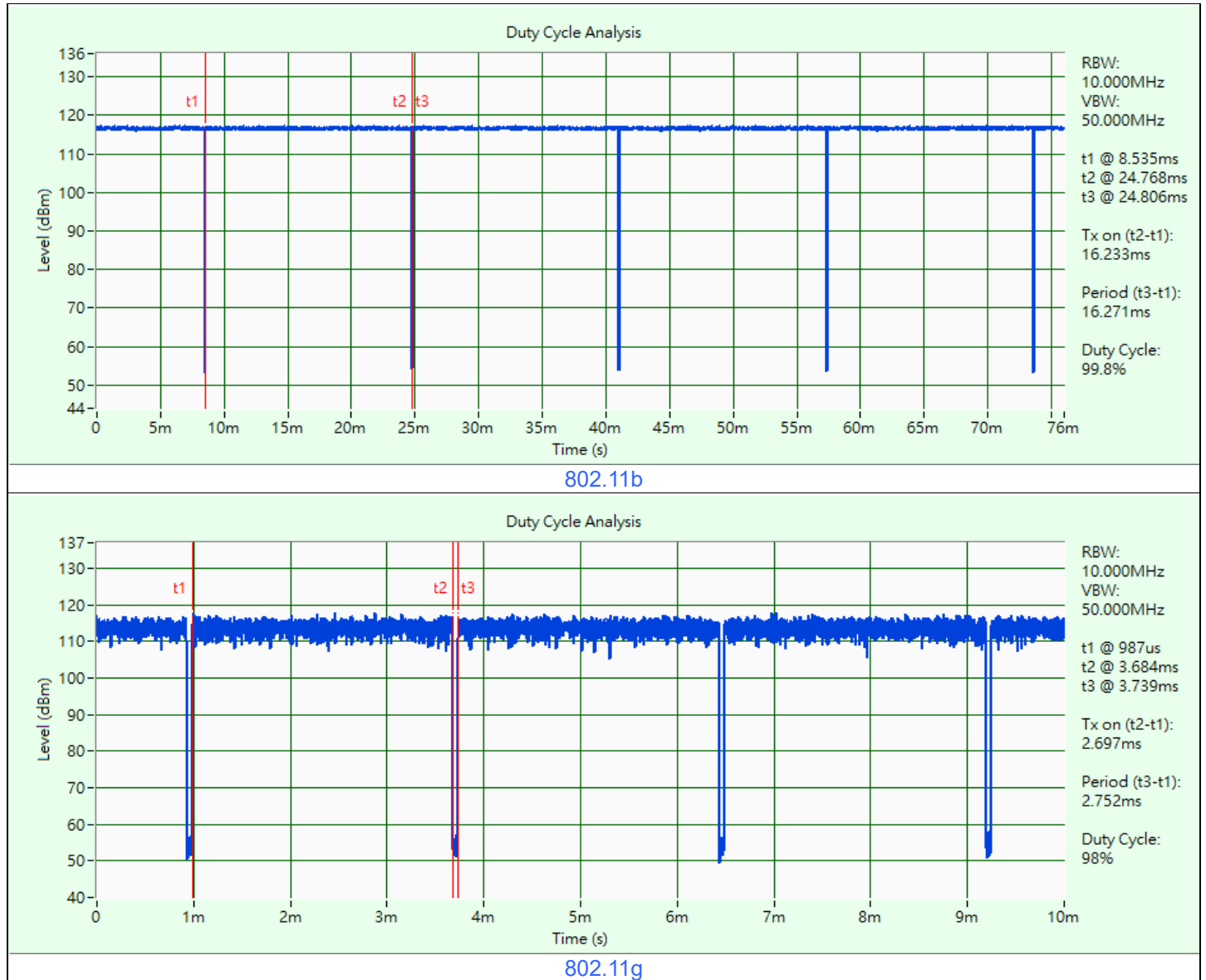
3.6 Duty Cycle of Test Signal

802.11b: Duty cycle = 16.233 ms / 16.271 ms x 100% = 99.8%

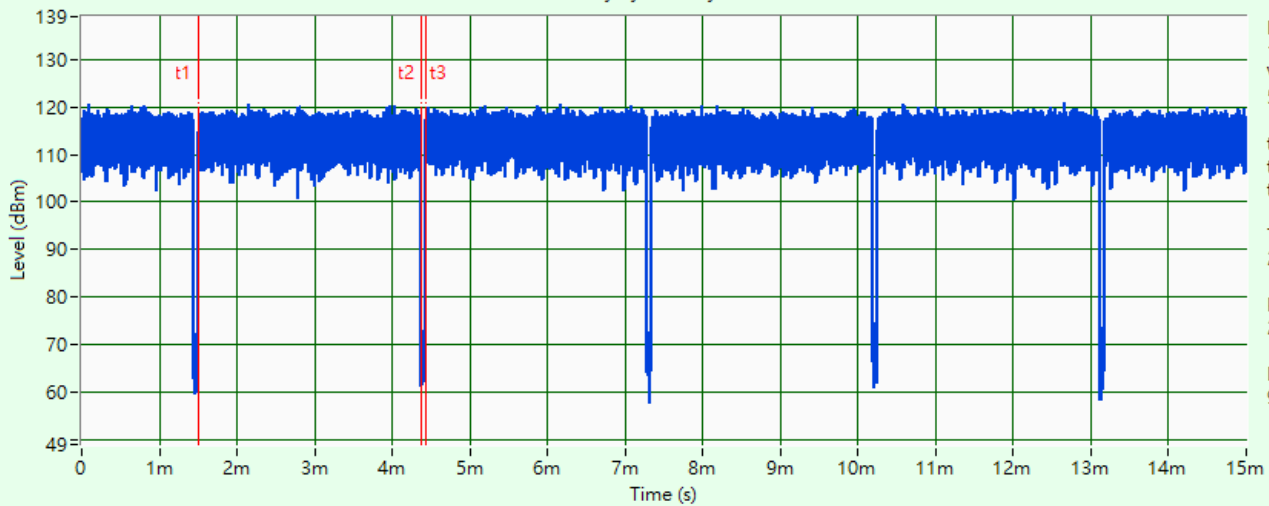
802.11g: Duty cycle = 2.697 ms / 2.752 ms x 100% = 98.0%

802.11ax (HE20) CDD: Duty cycle = 2.86 ms / 2.916 ms x 100% = 98.1%

802.11ax (HE40) CDD: Duty cycle = 2.859 ms / 2.916 ms x 100% = 98.0%

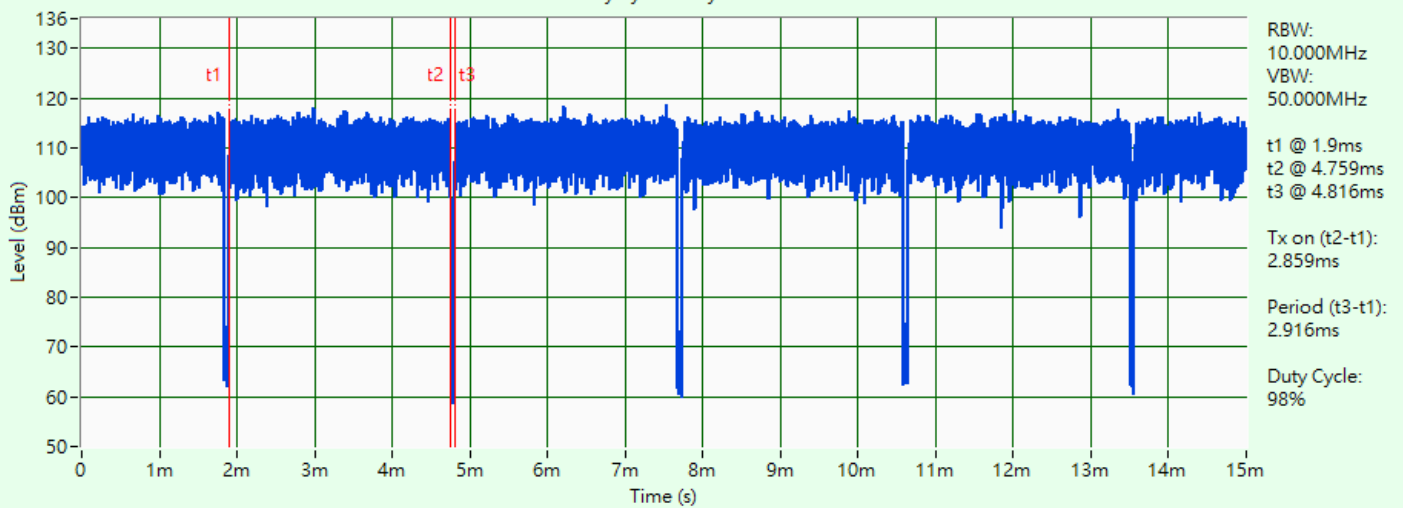


Duty Cycle Analysis



802.11ax (HE20) CDD

Duty Cycle Analysis

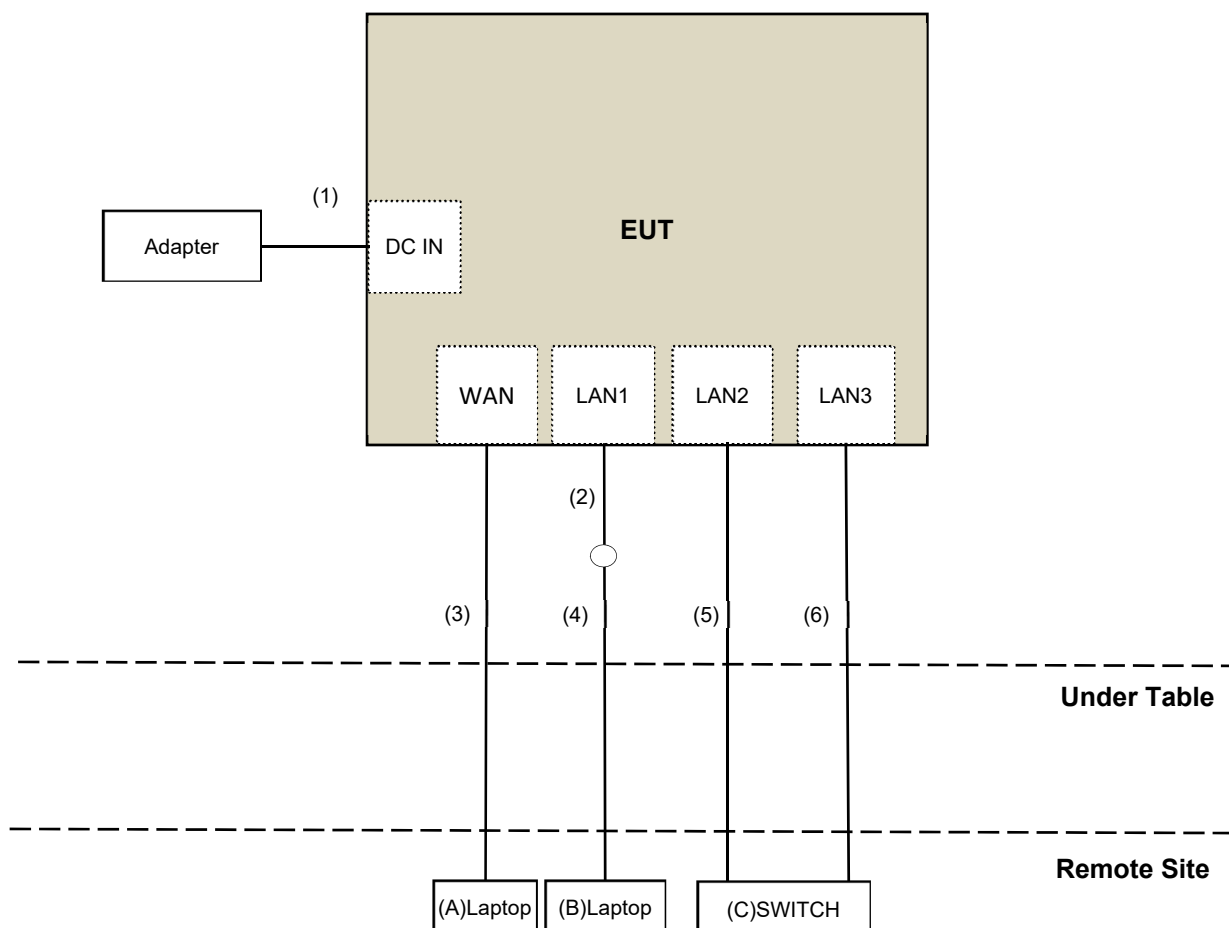


802.11ax (HE40) CDD

3.7 Test Program Used and Operation Descriptions

Controlling software (QATool_Ulv2.78_DLLv6.83_ap_2021.11.05_Custom) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.8 Connection Diagram of EUT and Peripheral Devices



3.9 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	DELL	E6440	F9LYQ32	DoC	Provided by Lab
B	Laptop	DELL	E5430	HYV4VY1	DoC	Provided by Lab
C	SWITCH	D-Link	DGS-1005D	DR8WC92000523	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.5	NO	0	Supplied by applicant
2	RJ-45 Cable	1	1.5	NO	0	Supplied by applicant
3	RJ-45 Cable	1	10	NO	0	Provided by Lab
4	RJ-45 Cable	1	10	NO	0	Provided by Lab
5	RJ-45 Cable	1	10	NO	0	Provided by Lab
6	RJ-45 Cable	1	10	NO	0	Provided by Lab

4 Test Instruments

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

4.1 RF Output Power

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

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/9/12

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/9/12

4.3 6 dB Bandwidth

Refer to section 4.2 to get information of the instruments.

4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get information of the instruments.

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	N/A	EMC-01	2022/9/27	2023/9/26
EMI Test Receiver R&S	ESCS 30	847124/029	2022/10/14	2023/10/13
Fixed Attenuator STI	STI02-2200-10	005	2023/7/1	2024/6/30
LISN R&S	ESH3-Z5	848773/004	2022/10/18	2023/10/17
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2023/7/1	2024/6/30
Software BVADT	BVADT_Conc_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2023/9/12

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-361	2022/10/21	2023/10/20
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	2023/9/7	2024/9/6
Loop Antenna Electro-Metrics	EM-6879	264	2023/2/21	2024/2/20
MXE EMI Receiver Agilent	N9038A	MY50010156	2023/6/13	2024/6/12
Preamplifier EMCI	EMC330N	980852	2023/2/20	2024/2/19
	EMC001340	980142	2023/5/8	2024/5/7
RF Coaxial Cable JYEBAO	5D-FB	LOOPCAB-001	2022/12/19	2023/12/18
		LOOPCAB-002	2022/12/19	2023/12/18
RF Coaxial Cable PEWC	8D	966-3-2	2023/2/17	2024/2/16
		966-3-3	2023/2/17	2024/2/16
		966-4-1	2023/2/18	2024/2/17
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2023/9/9

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-406	2022/11/13	2023/11/12
	BBHA 9170	9170-739	2022/11/13	2023/11/12
MXE EMI Receiver Agilent	N9038A	MY50010156	2023/6/13	2024/6/12
Preamplifier EMCI	EMC12630SE	980384	2023/8/9	2024/8/8
	EMC184045SE	980387	2023/8/9	2024/8/8
PXA Signal Analyzer Keysight	N9030B	MY57142938	2023/4/6	2024/4/5
RF Coaxial Cable EMCI	EMC-KM-KM-4000	200214	2023/2/20	2024/2/19
	EMC102-KM-KM-1200	160924	2023/8/9	2024/8/8
	EMC104-SM-SM-1500	180504	2023/3/27	2024/3/26
	EMC104-SM-SM-2000	180601	2023/6/2	2024/6/1
	EMC104-SM-SM-6000	210201	2023/5/8	2024/5/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2023/8/30 ~ 2023/9/9

5 Limits of Test Items

5.1 RF Output Power

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

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

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

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

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

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

5.2 Power Spectral Density

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz.

5.3 6 dB Bandwidth

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

5.4 Conducted Out of Band Emissions

Below 20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

5.5 AC Power Conducted Emissions

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

Notes:

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

5.6 Unwanted Emissions below 1 GHz

Radiated emissions up to 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 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

Notes:

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

5.7 Unwanted Emissions above 1 GHz

Radiated emissions above 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

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

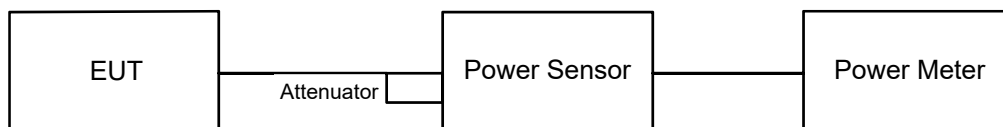
Notes:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



6.1.2 Test Procedure

Peak Power:

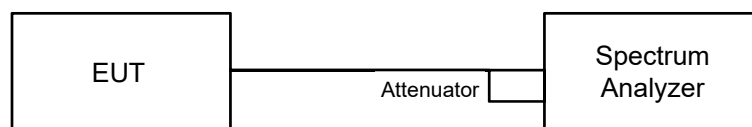
A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average Power:

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

6.2 Power Spectral Density

6.2.1 Test Setup

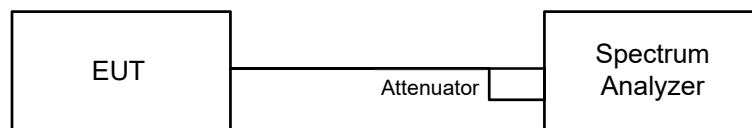


6.2.2 Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: 3 kHz.
- Set the VBW $\geq 3 \times$ RBW.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

6.3 6 dB Bandwidth

6.3.1 Test Setup

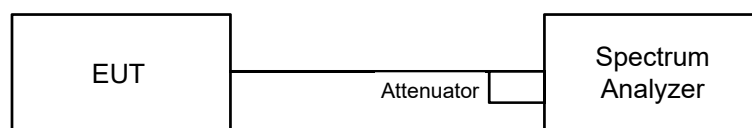


6.3.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

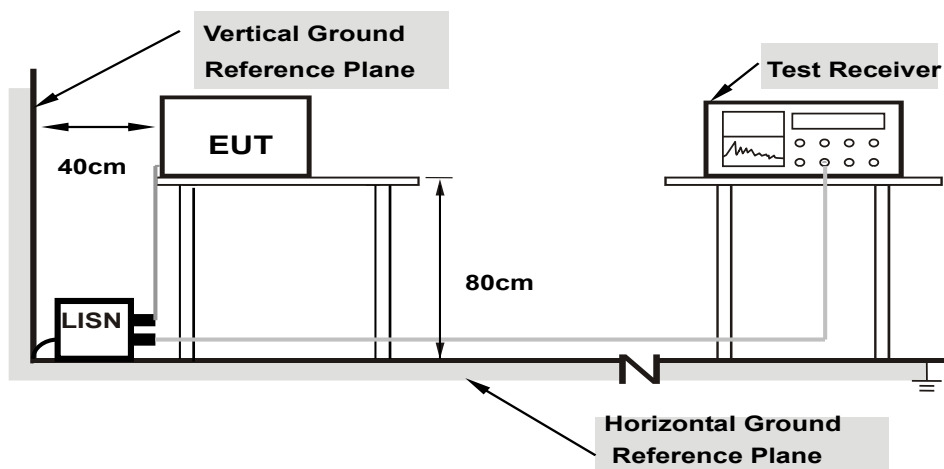
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

- Set RBW = 100 kHz.
- Set VBW ≥ 300 kHz.
- Detector = peak.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

6.5 AC Power Conducted Emissions

6.5.1 Test Setup



Note: 1.Support units were connected to second LISN.

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

6.5.2 Test Procedure

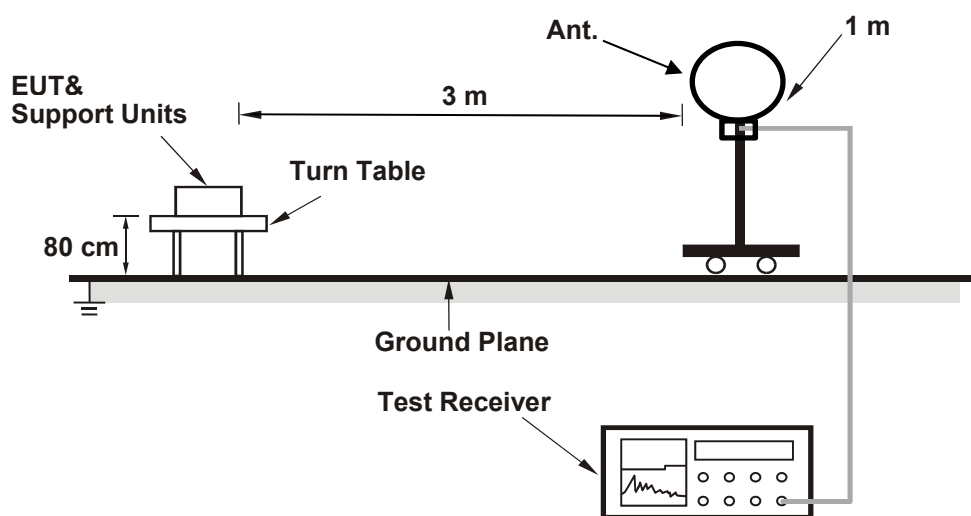
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

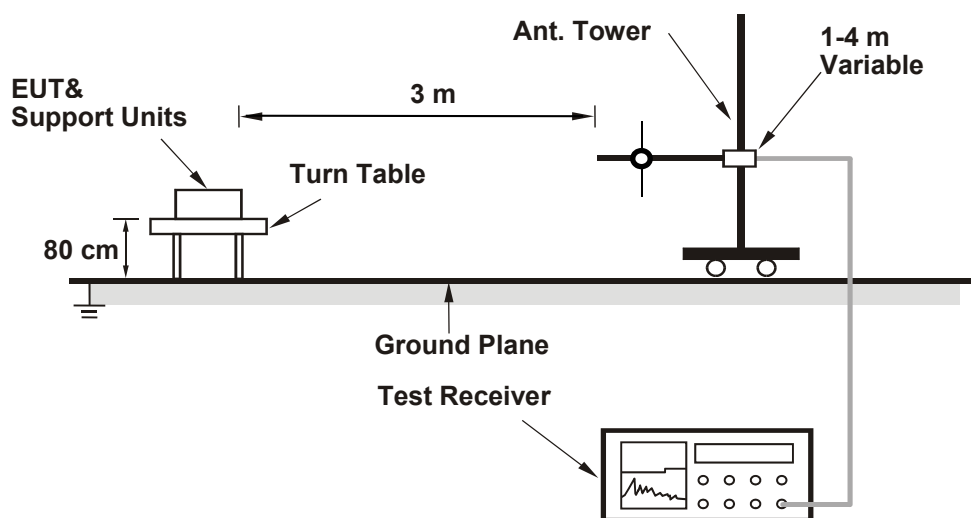
6.6 Unwanted Emissions below 1 GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.6.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

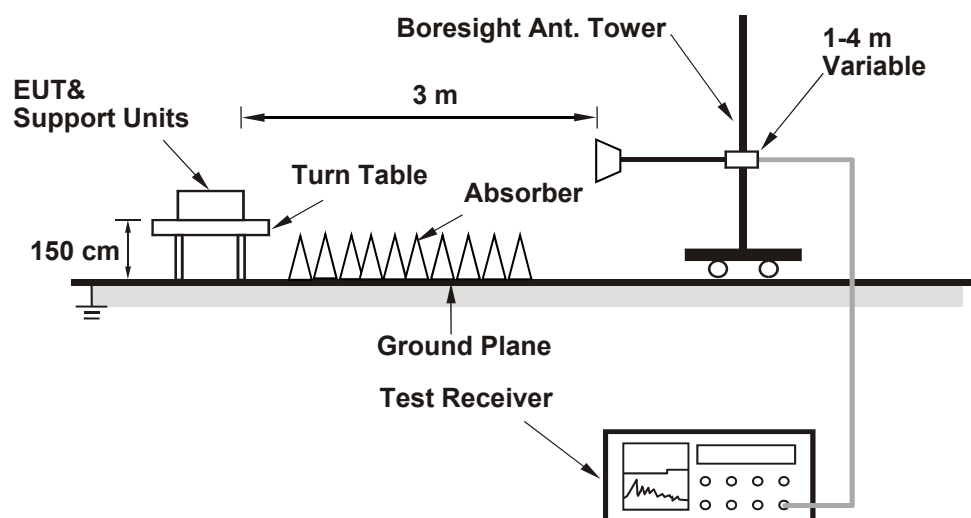
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

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

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



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

6.7.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Ko
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For Peak Power

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	25.71	24.13	631.213	28.00	30	Pass
6	2437	23.06	23.46	424.122	26.27	30	Pass
11	2462	22.81	22.78	380.656	25.81	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.36 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	25.12	25.66	693.216	28.41	30	Pass
6	2437	26.88	26.96	984.121	29.93	30	Pass
11	2462	26.31	26.14	838.713	29.24	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.36 dBi < 6 dBi, so the output power limit shall not be reduced.

VHT20 CDD

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	25.20	25.58	692.541	28.40	30	Pass
6	2437	26.78	26.65	938.812	29.73	30	Pass
11	2462	25.90	25.79	768.36	28.86	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.36 dBi < 6 dBi, so the output power limit shall not be reduced.

VHT40 CDD

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	23.88	24.38	518.5	27.15	30	Pass
6	2437	24.75	24.83	602.627	27.80	30	Pass
9	2452	24.52	24.88	590.749	27.71	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.36 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	25.29	25.81	719.131	28.57	30	Pass
6	2437	26.86	26.83	967.236	29.86	30	Pass
11	2462	25.98	25.99	793.47	29.00	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.36 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	24.15	24.63	550.418	27.41	30	Pass
6	2437	24.82	24.95	615.997	27.90	30	Pass
9	2452	24.79	24.91	611.043	27.86	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.36 dBi < 6 dBi, so the output power limit shall not be reduced.

VHT20 Beamforming

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	25.20	25.58	692.541	28.40	30	Pass
6	2437	26.78	26.65	938.812	29.73	30	Pass
11	2462	25.90	25.79	768.36	28.86	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.81 dBi < 6 dBi, so the output power limit shall not be reduced.

VHT40 Beamforming

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	23.88	24.38	518.5	27.15	30	Pass
6	2437	24.75	24.83	602.627	27.80	30	Pass
9	2452	24.52	24.88	590.749	27.71	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.81 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	25.29	25.81	719.131	28.57	30	Pass
6	2437	26.86	26.83	967.236	29.86	30	Pass
11	2462	25.98	25.99	793.47	29.00	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.81 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	24.15	24.63	550.418	27.41	30	Pass
6	2437	24.82	24.95	615.997	27.90	30	Pass
9	2452	24.79	24.91	611.043	27.86	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.81 dBi < 6 dBi, so the output power limit shall not be reduced.

For Average Power

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	23.20	21.70	356.84	25.52
6	2437	20.68	21.08	245.183	23.89
11	2462	20.52	20.37	221.613	23.46

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	19.56	19.71	183.906	22.65
6	2437	22.17	22.46	341.014	25.33
11	2462	20.51	20.54	225.701	23.54

VHT20 CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	18.93	19.18	160.957	22.07
6	2437	21.14	21.53	272.25	24.35
11	2462	20.07	20.04	202.55	23.07

VHT40 CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	18.27	18.60	139.586	21.45
6	2437	19.22	19.49	172.48	22.37
9	2452	19.08	19.46	169.218	22.28

802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	19.03	19.32	165.49	22.19
6	2437	21.23	21.70	280.65	24.48
11	2462	20.15	20.13	206.553	23.15

802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	18.43	18.72	144.136	21.59
6	2437	19.34	19.69	179.012	22.53
9	2452	19.24	19.62	175.568	22.44

VHT20 Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	18.93	19.18	160.957	22.07
6	2437	21.14	21.53	272.25	24.35
11	2462	20.07	20.04	202.55	23.07

VHT40 Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	18.27	18.60	139.586	21.45
6	2437	19.22	19.49	172.48	22.37
9	2452	19.08	19.46	169.218	22.28

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	19.03	19.32	165.49	22.19
6	2437	21.23	21.70	280.65	24.48
11	2462	20.15	20.13	206.553	23.15

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	18.43	18.72	144.136	21.59
6	2437	19.34	19.69	179.012	22.53
9	2452	19.24	19.62	175.568	22.44

7.2 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Ko
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802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	2.17	2.05	5.12	8	Pass
6	2437	-0.73	1.14	3.32	8	Pass
11	2462	-0.36	0.21	2.94	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. The directional gain is 5.81 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-3.74	-4.55	-1.12	8	Pass
6	2437	-1.60	-1.10	1.67	8	Pass
11	2462	-1.70	-2.21	1.06	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. The directional gain is 5.81 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-5.06	-5.39	-2.21	8	Pass
6	2437	-3.64	-3.11	-0.36	8	Pass
11	2462	-4.37	-5.04	-1.68	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. The directional gain is 5.81 dBi < 6 dBi, so the power density limit shall not be reduced.

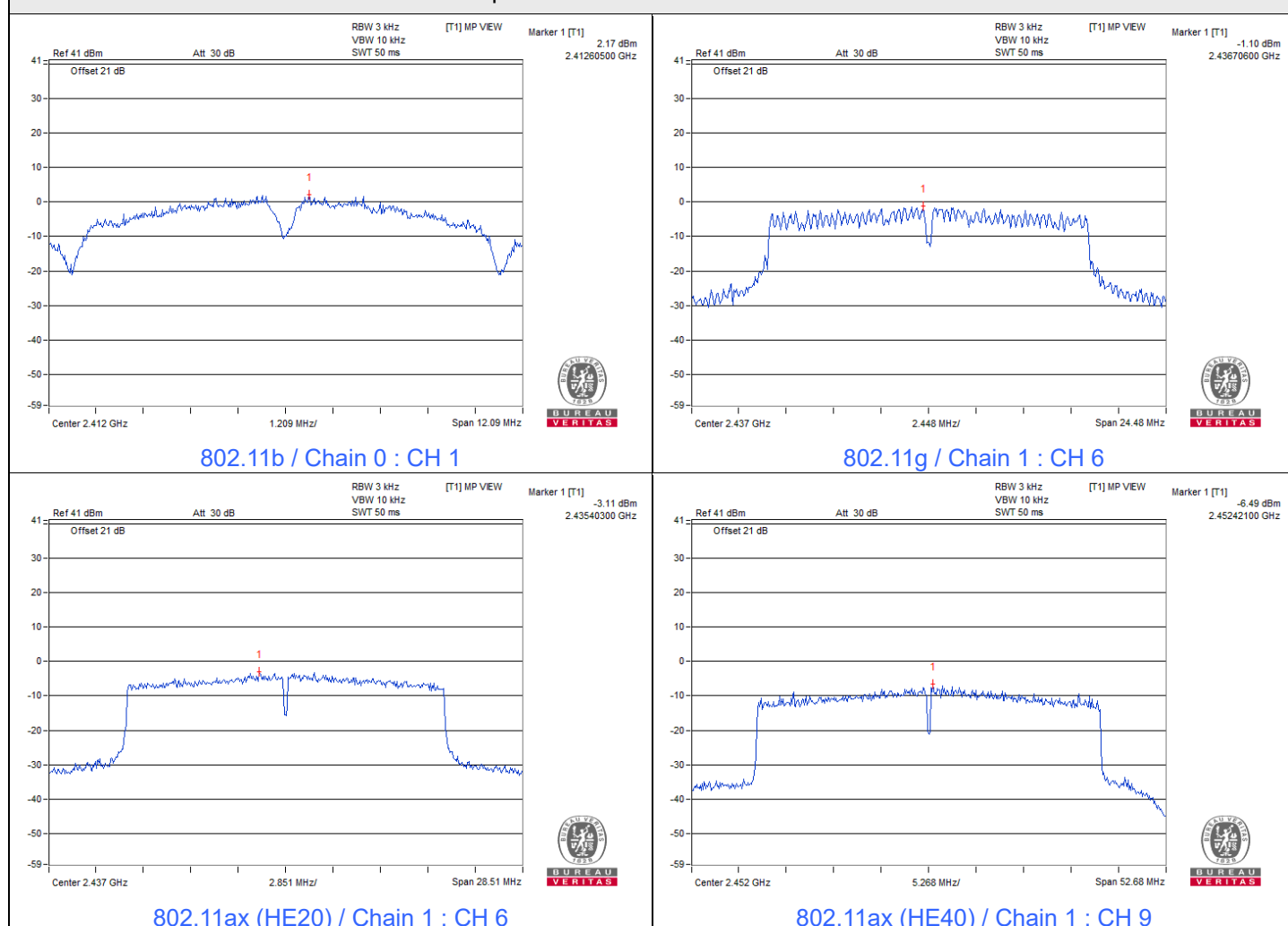
802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
3	2422	-8.39	-8.13	-5.25	8	Pass
6	2437	-6.61	-6.79	-3.69	8	Pass
9	2452	-6.64	-6.49	-3.55	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. The directional gain is 5.81 dBi < 6 dBi, so the power density limit shall not be reduced.

Spectrum Plot of Maximum Value



7.3 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Ko
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802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	8.06	8.04	0.5	Pass
6	2437	8.07	8.08	0.5	Pass
11	2462	8.09	8.06	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	16.30	16.34	0.5	Pass
6	2437	15.92	16.32	0.5	Pass
11	2462	16.28	16.34	0.5	Pass

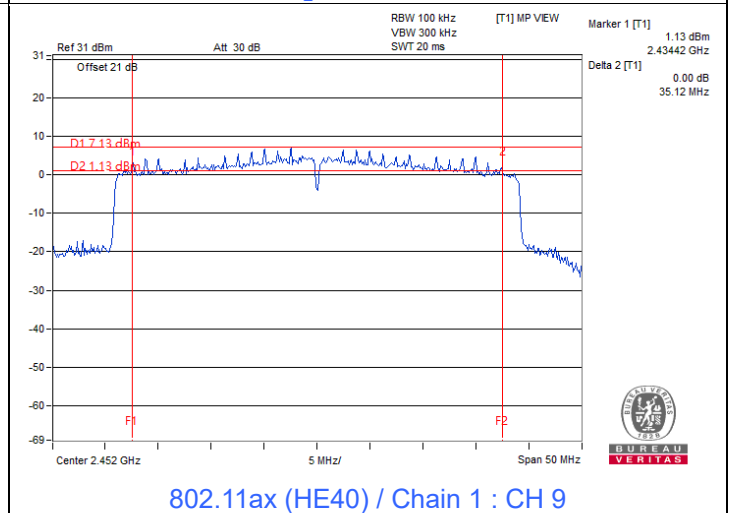
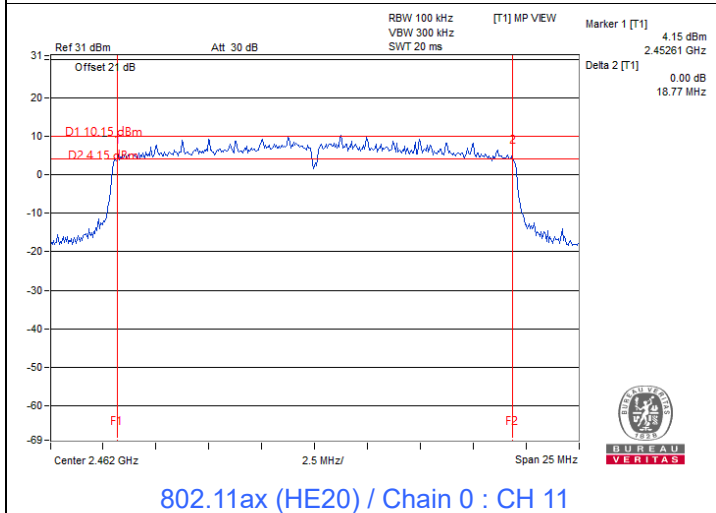
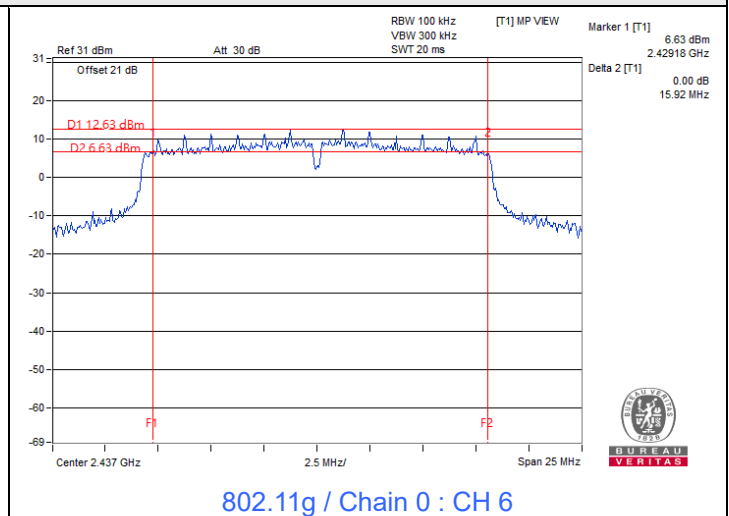
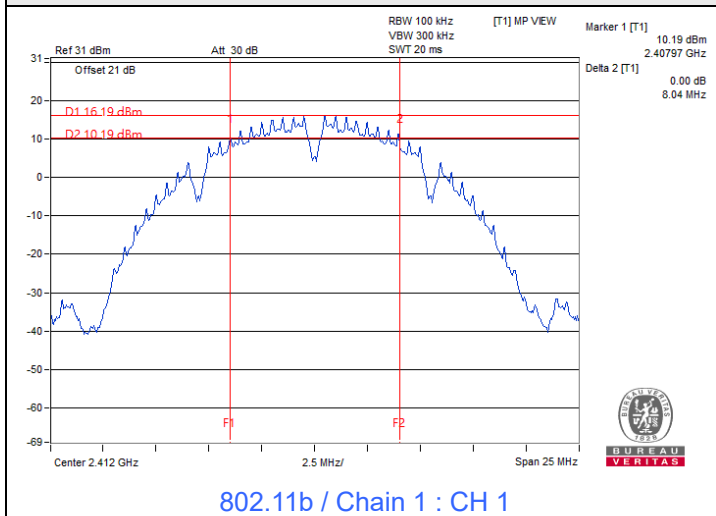
802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	18.80	18.92	0.5	Pass
6	2437	18.85	19.01	0.5	Pass
11	2462	18.77	18.87	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	35.57	35.91	0.5	Pass
6	2437	36.77	35.17	0.5	Pass
9	2452	37.26	35.12	0.5	Pass

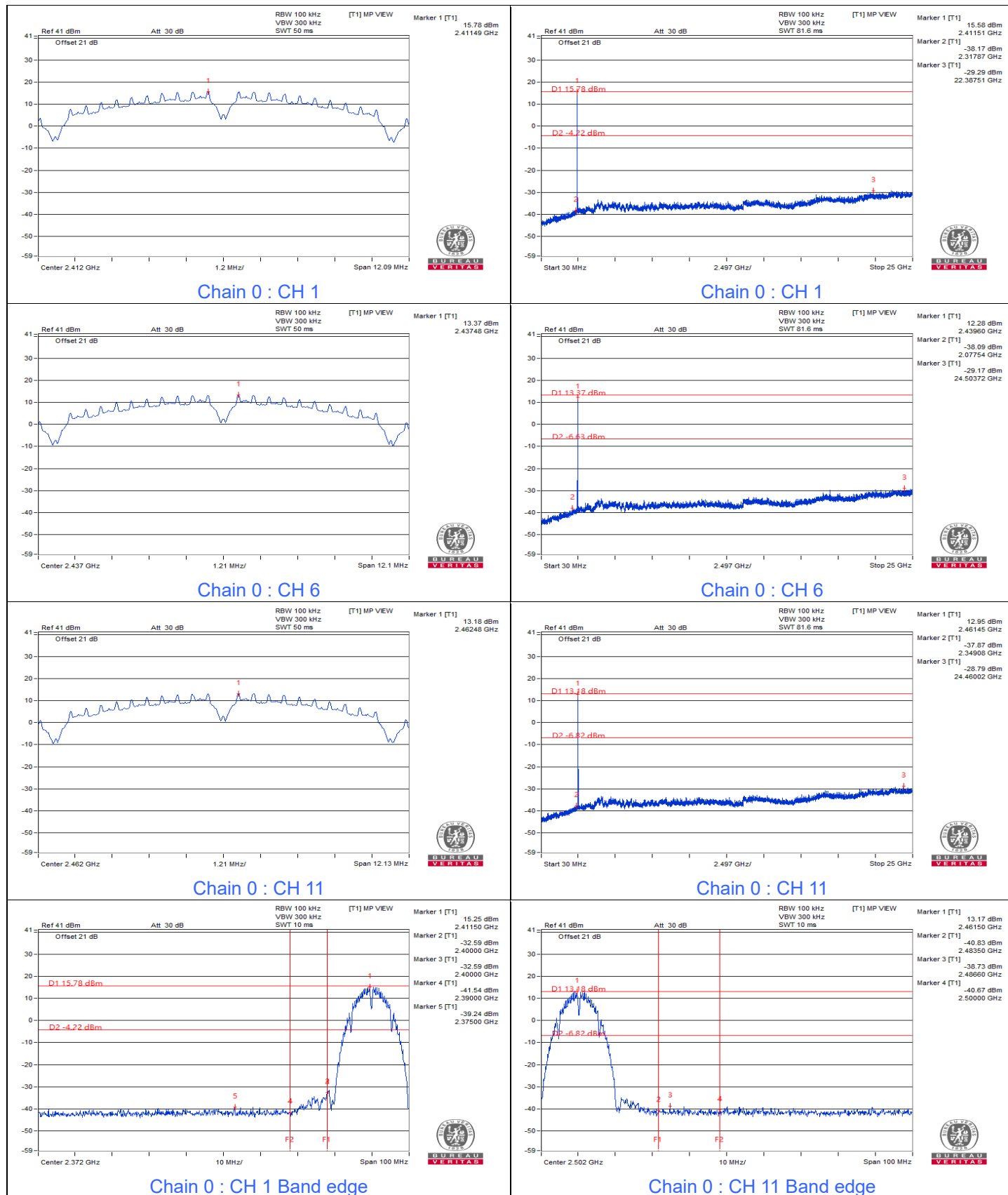
Spectrum Plot of Minimum Value

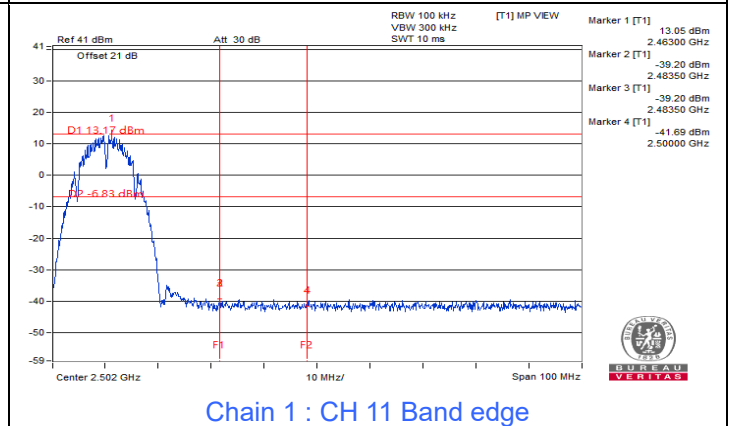
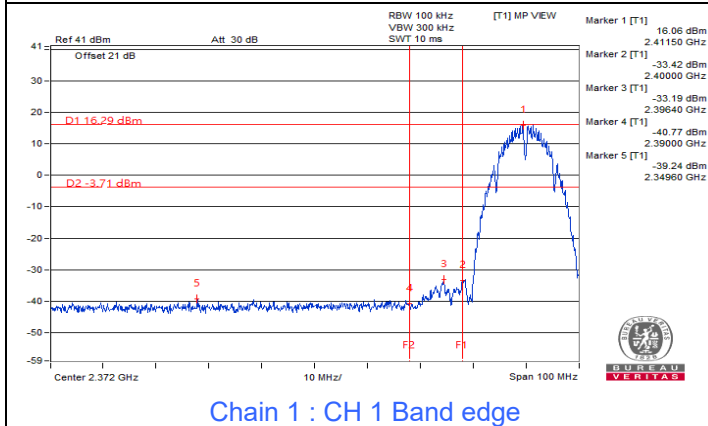
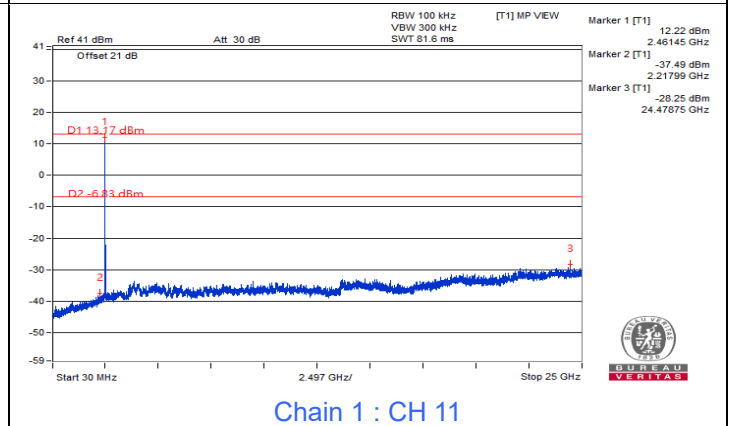
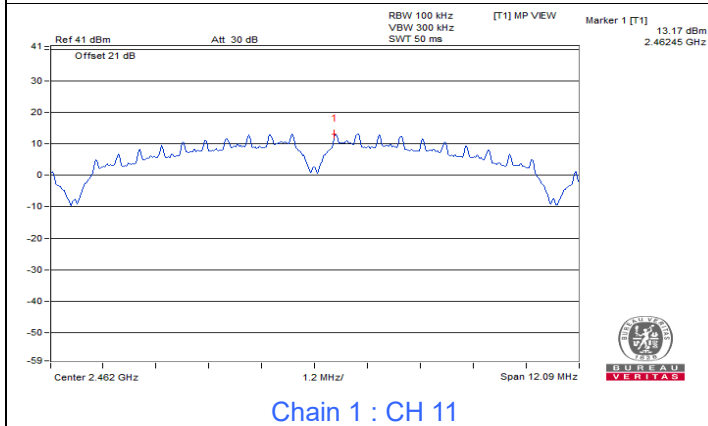
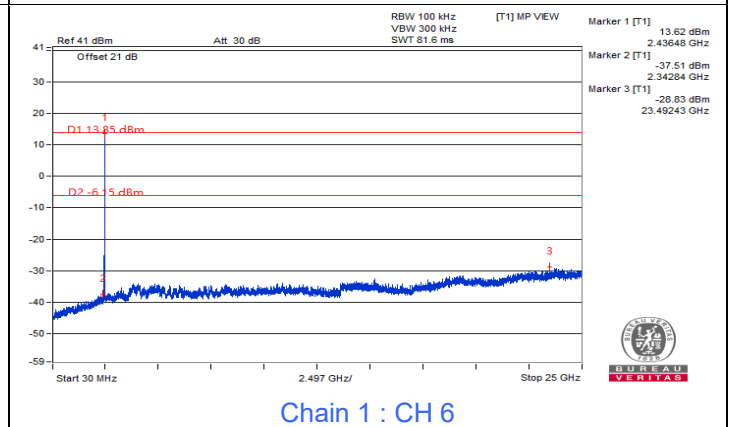
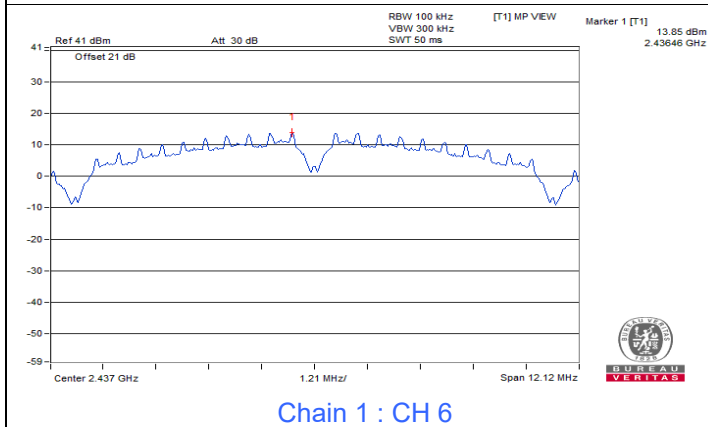
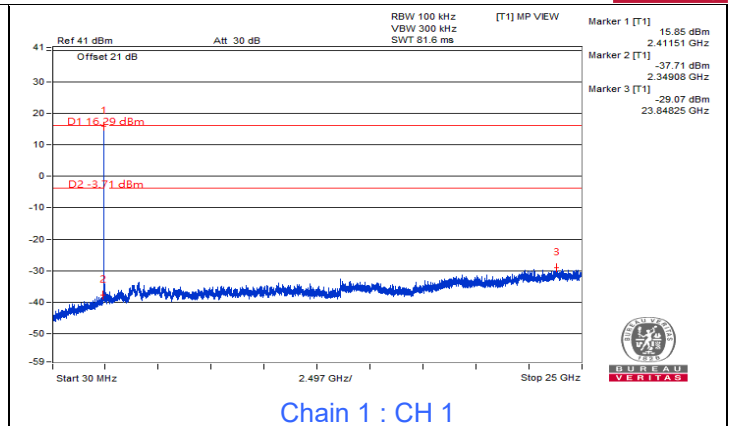
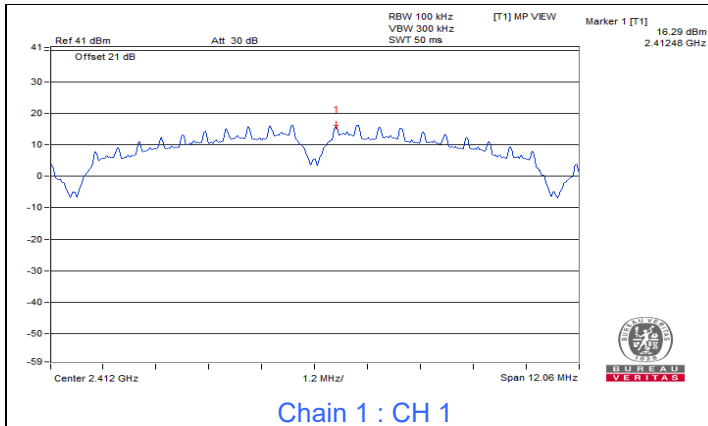


7.4 Conducted Out of Band Emissions

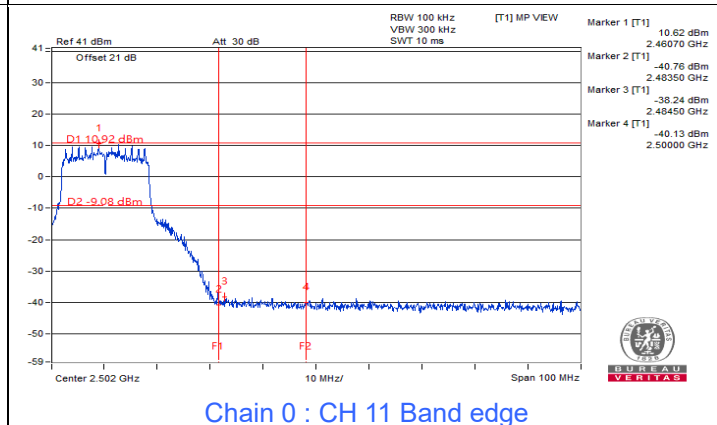
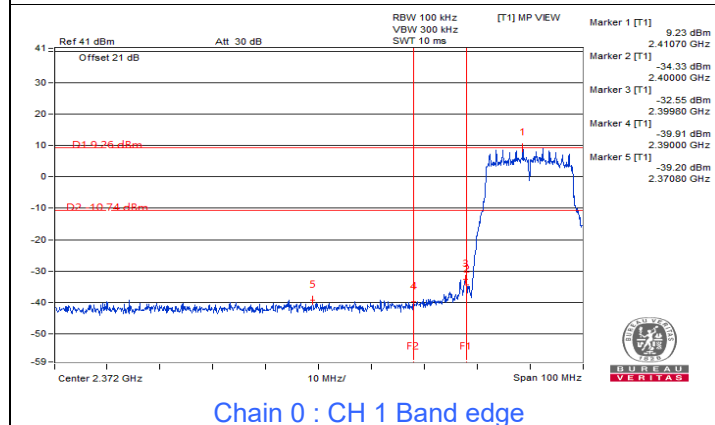
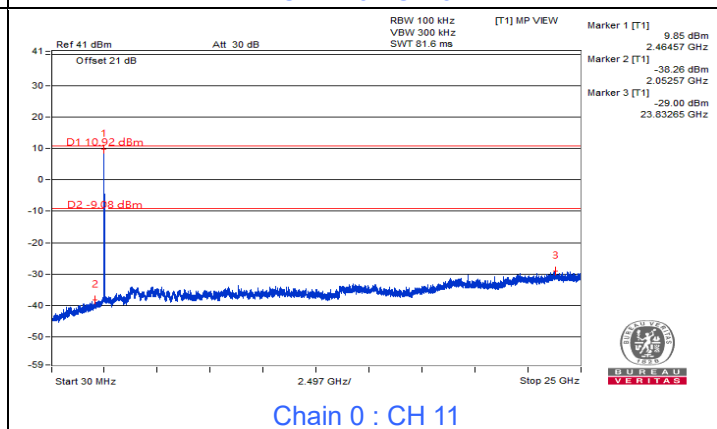
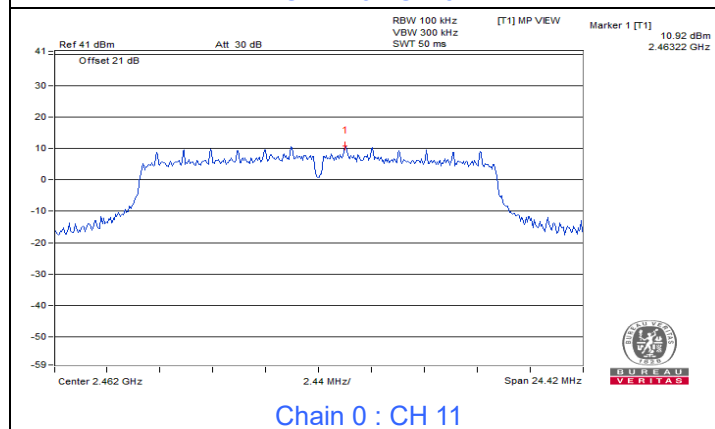
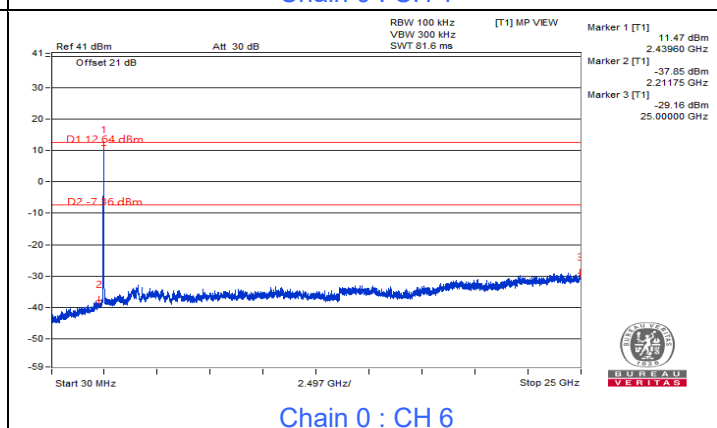
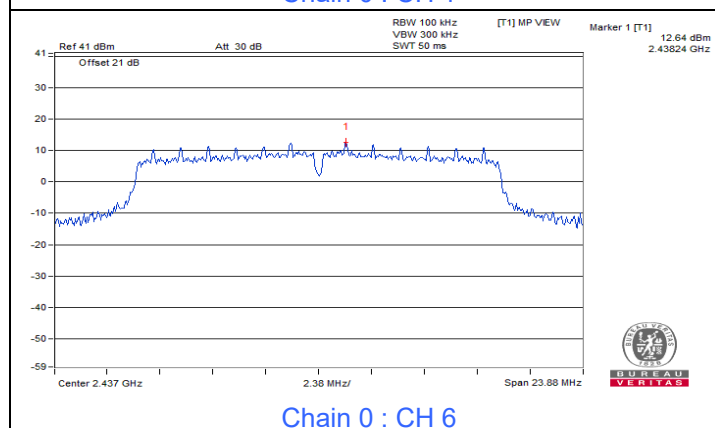
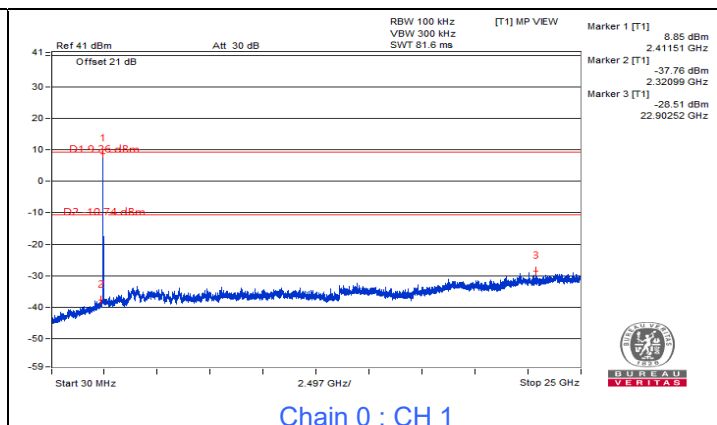
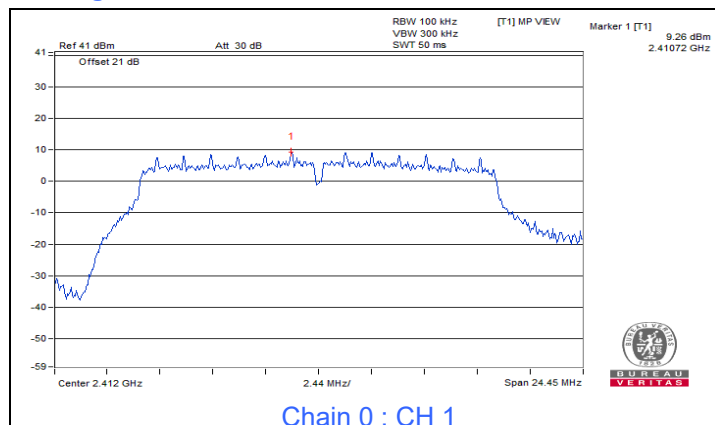
Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Ko
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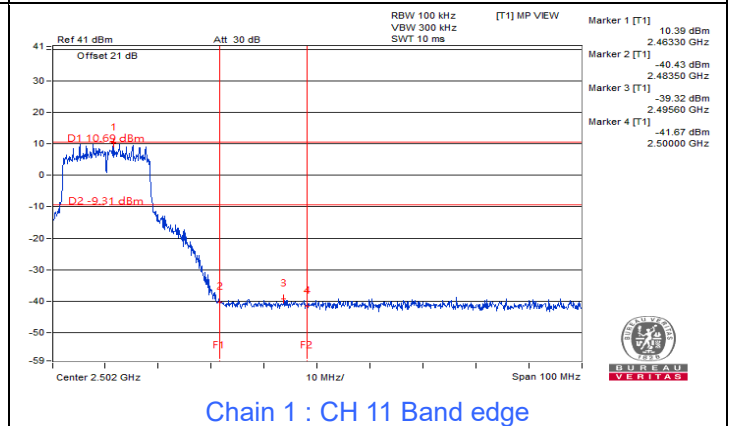
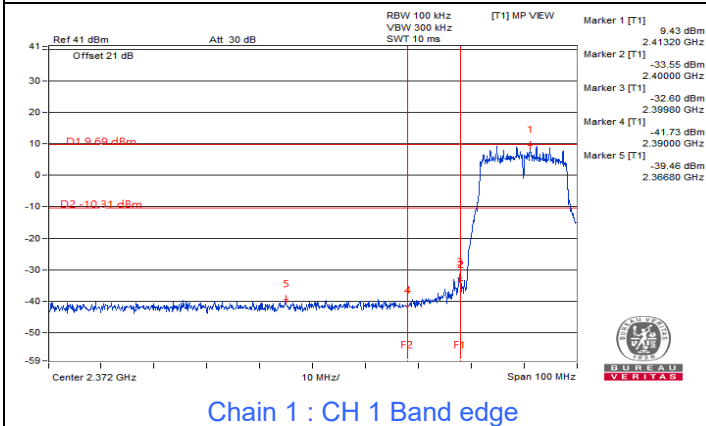
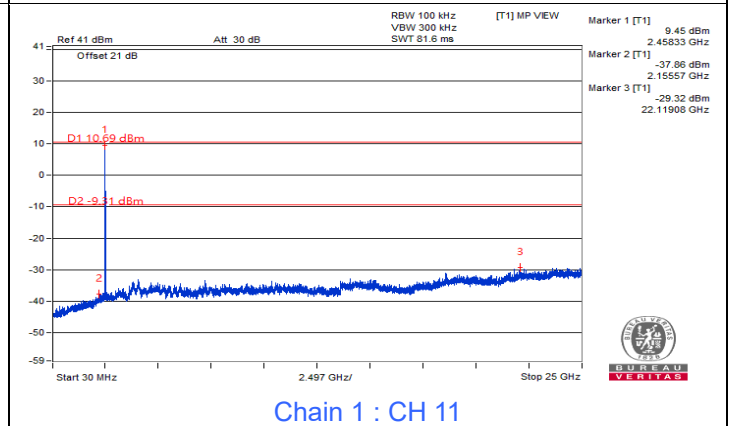
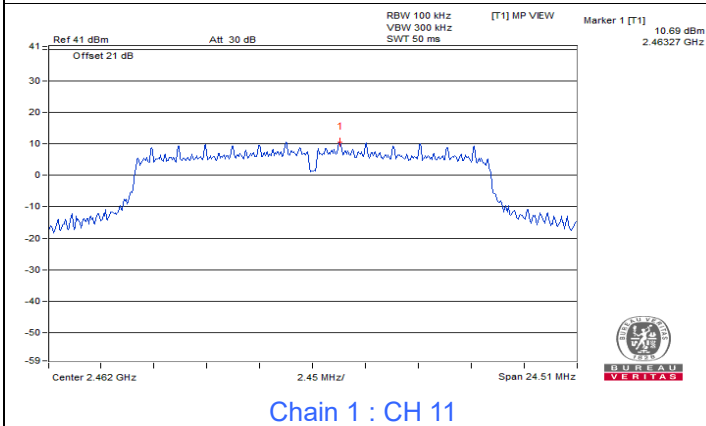
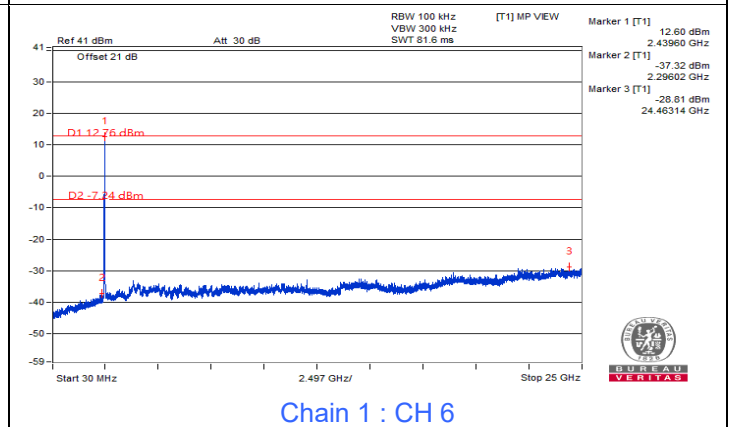
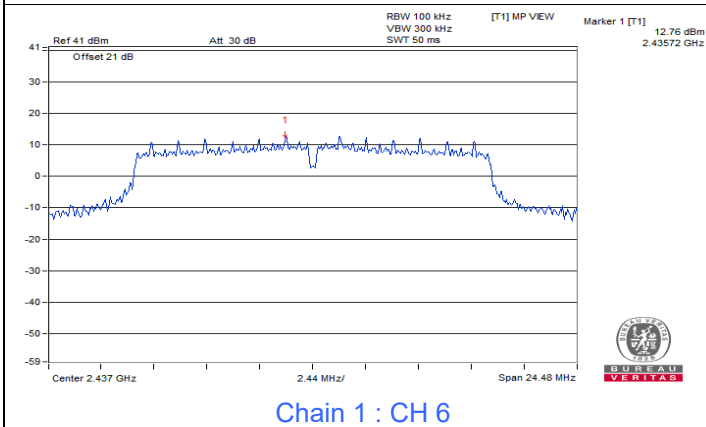
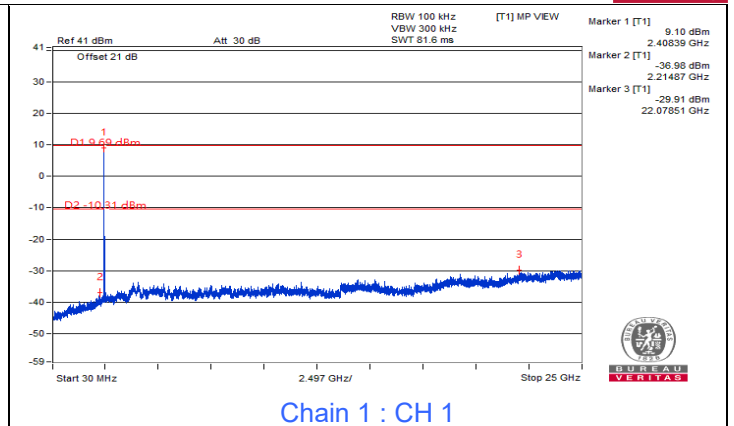
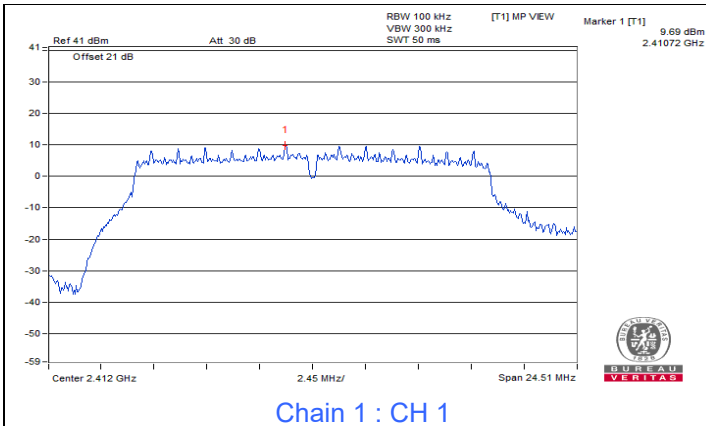
802.11b



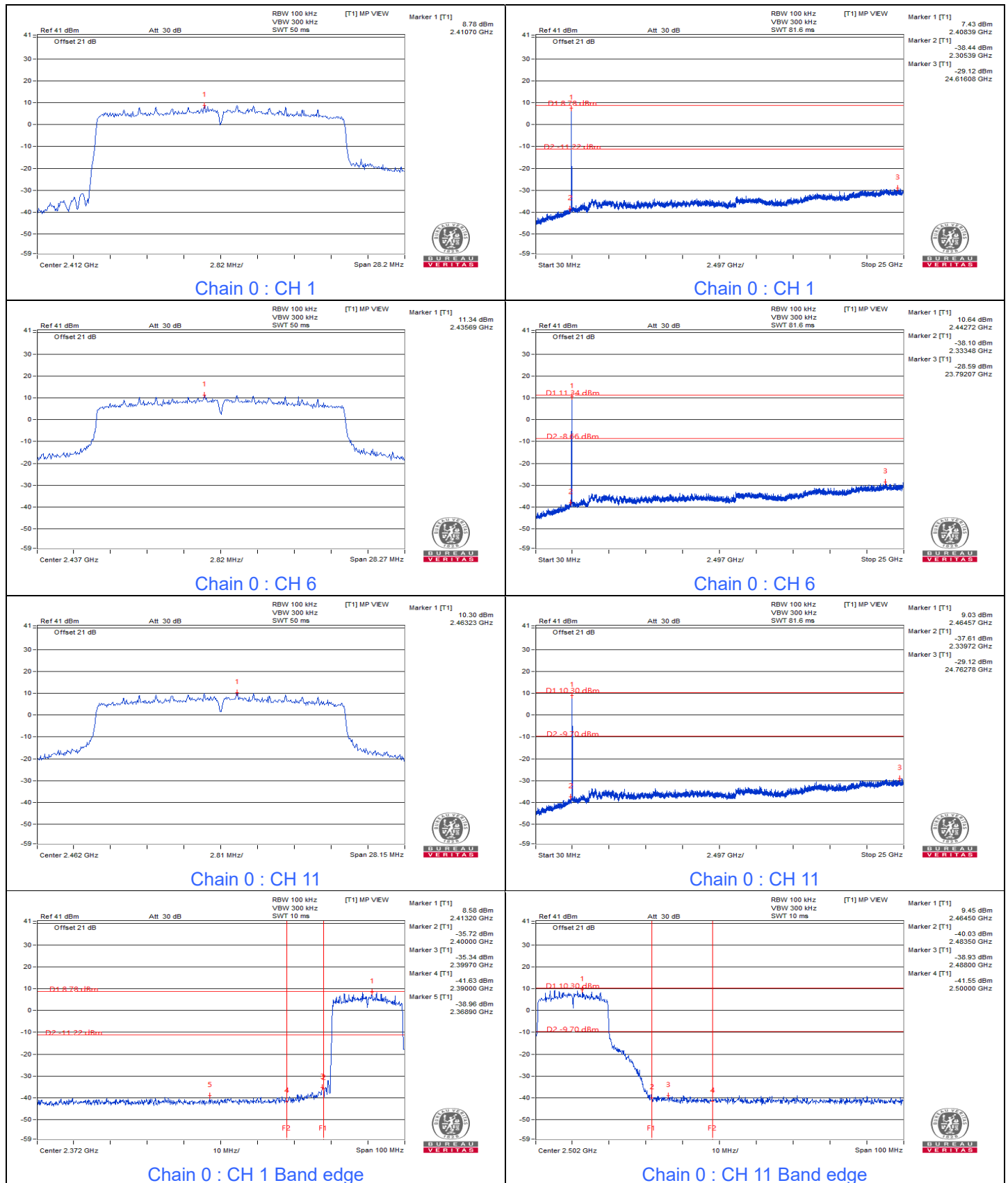


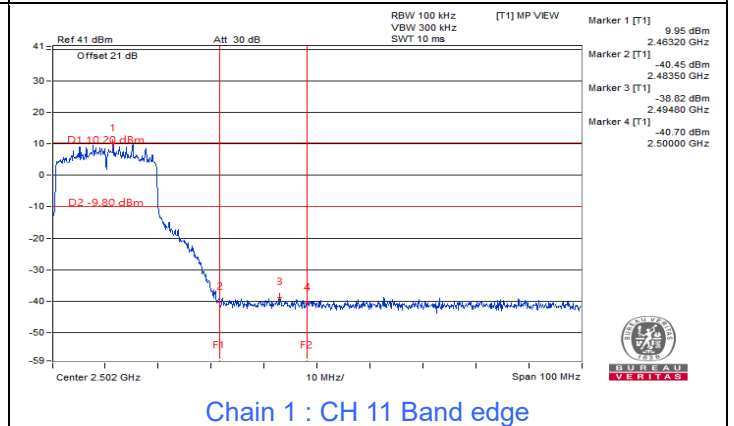
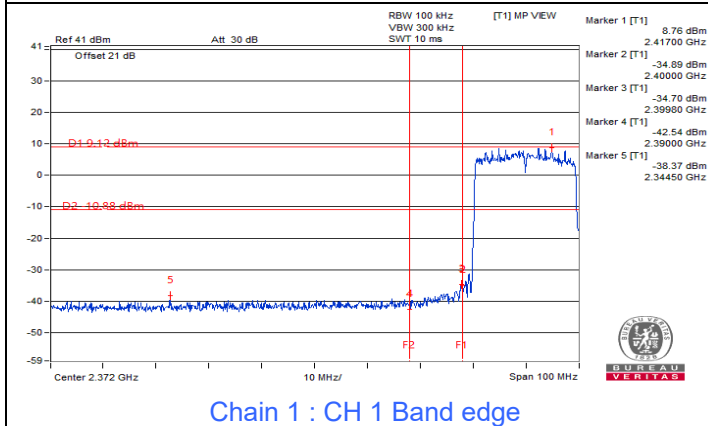
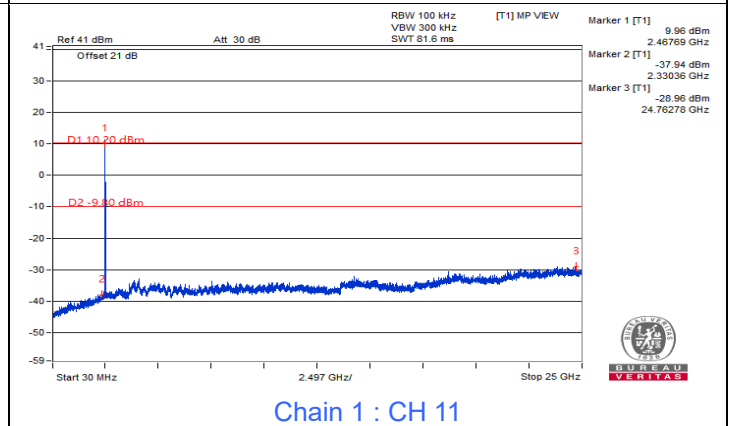
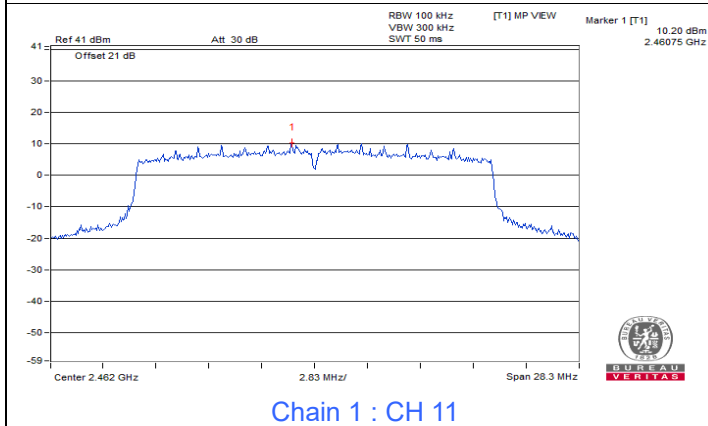
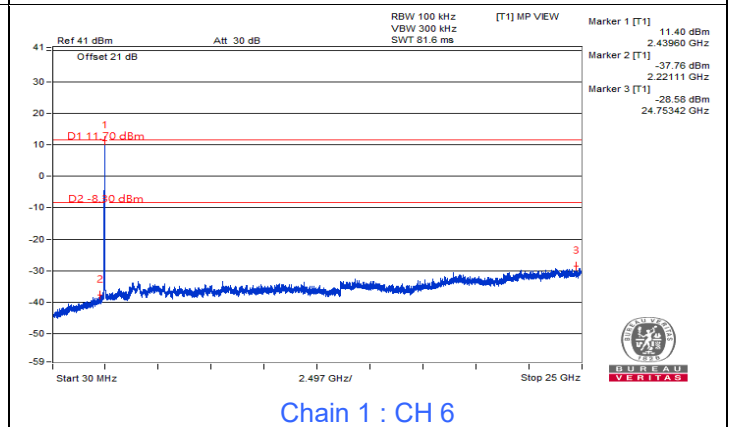
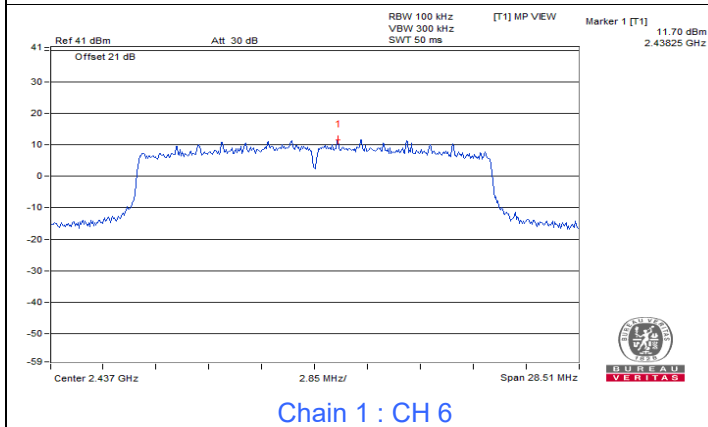
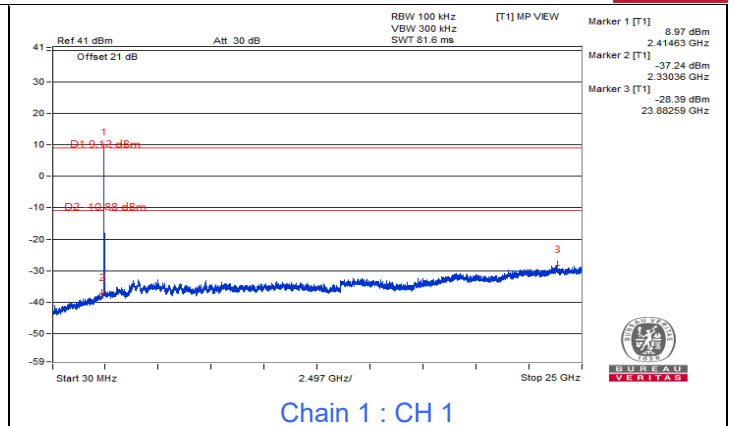
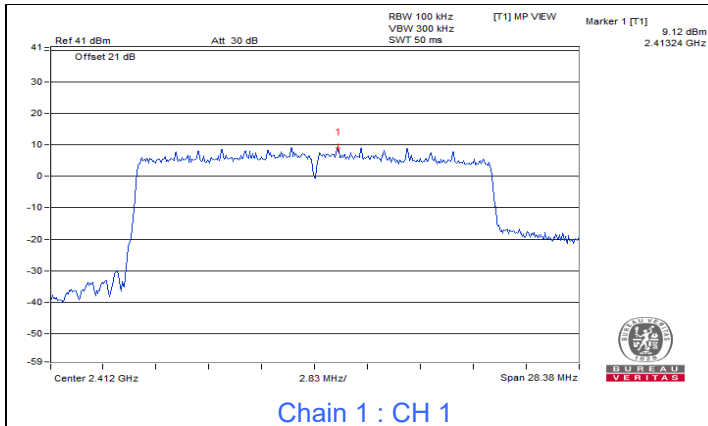
802.11g



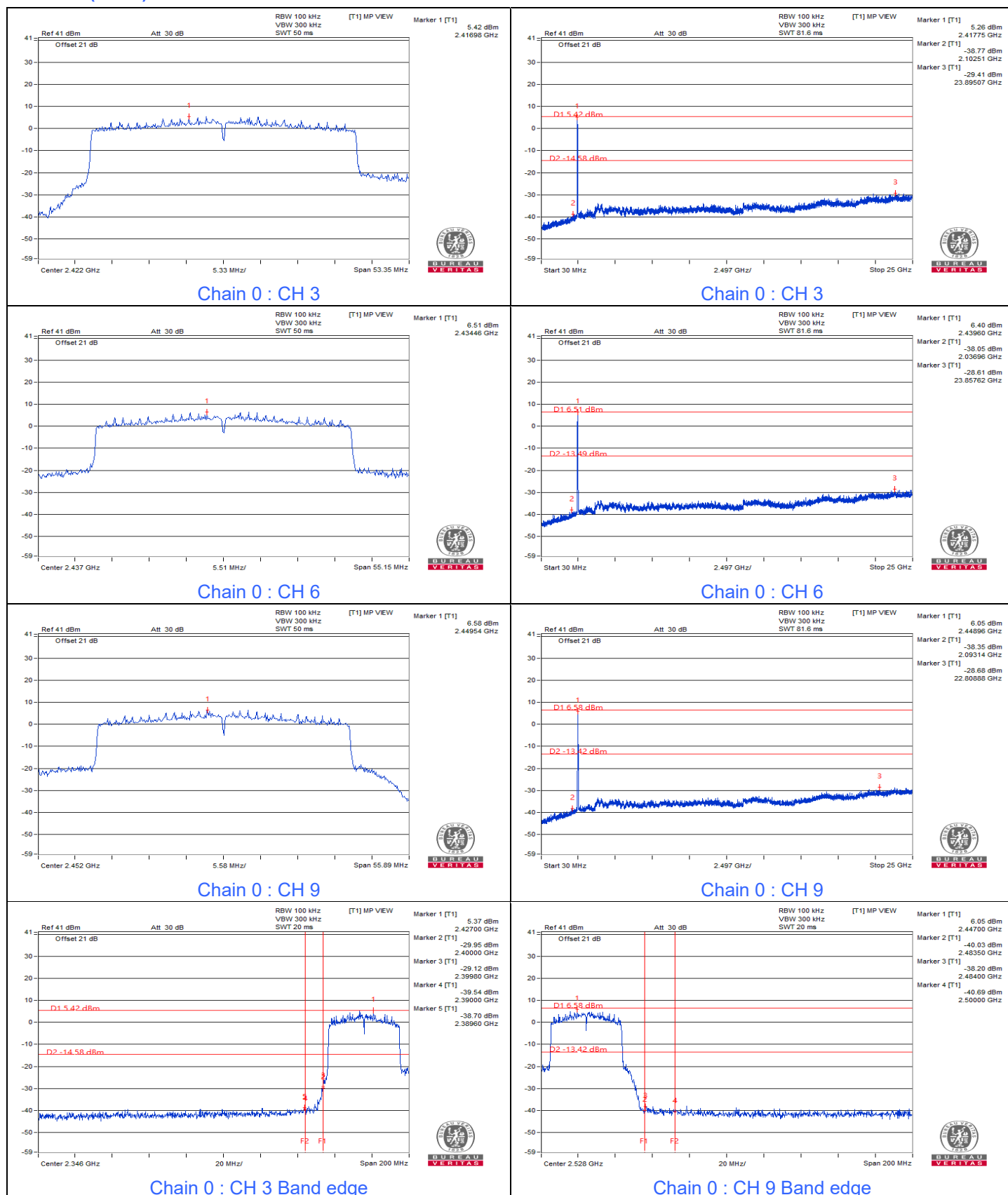


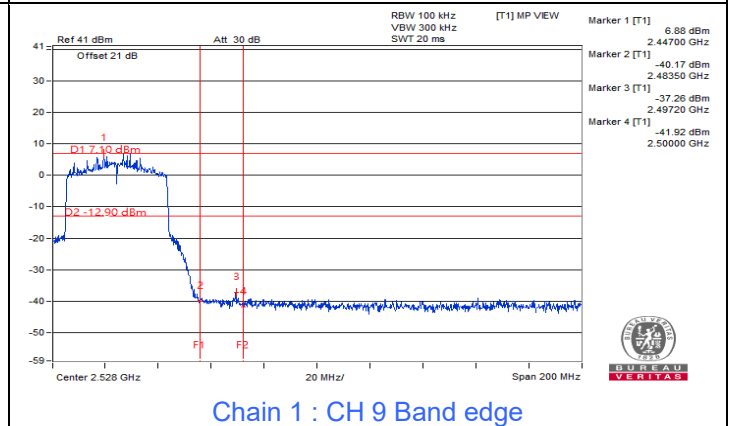
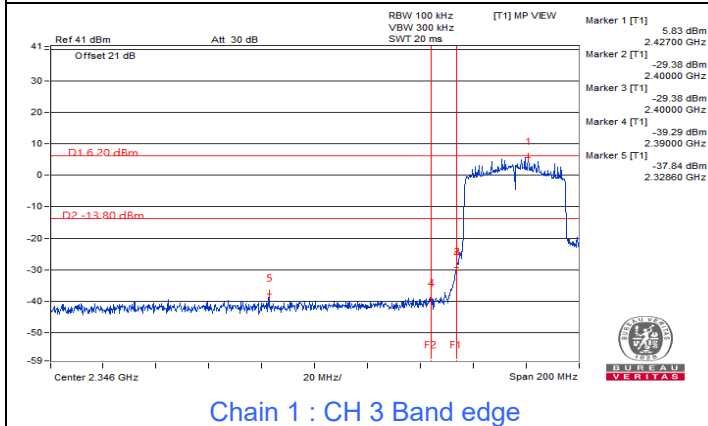
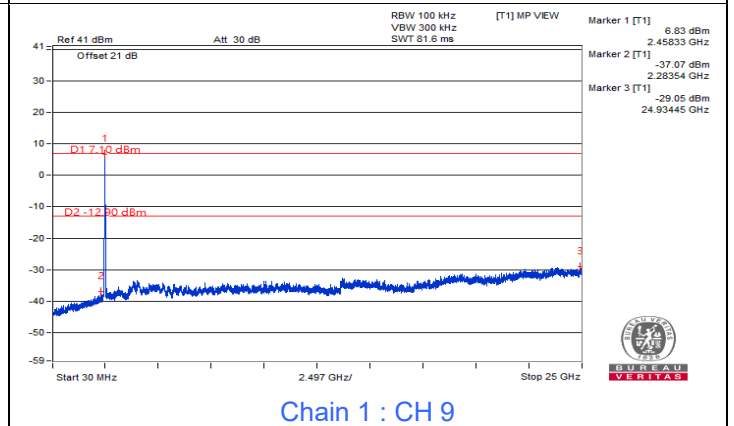
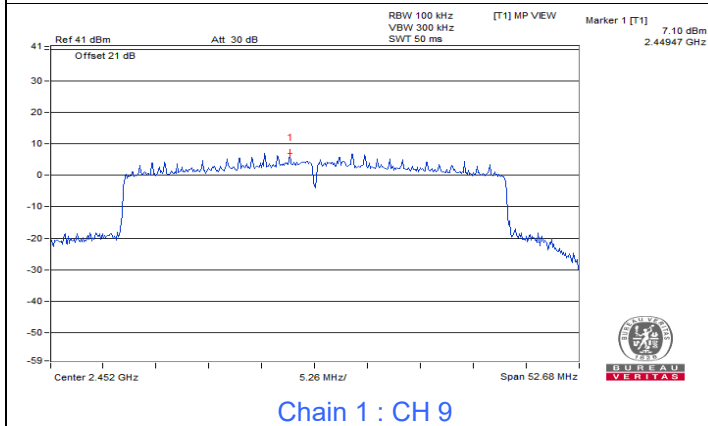
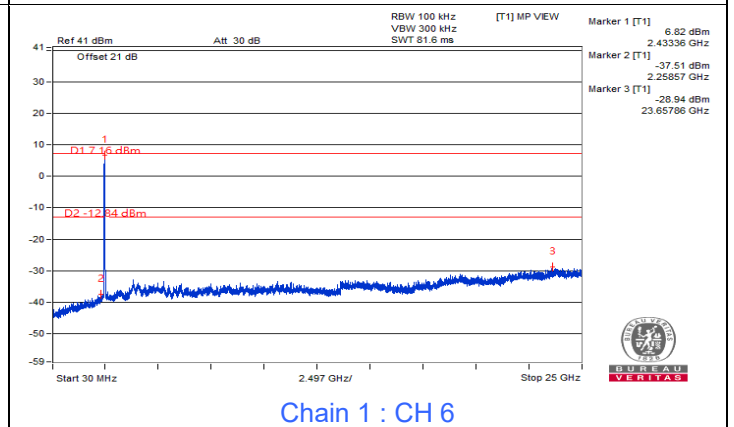
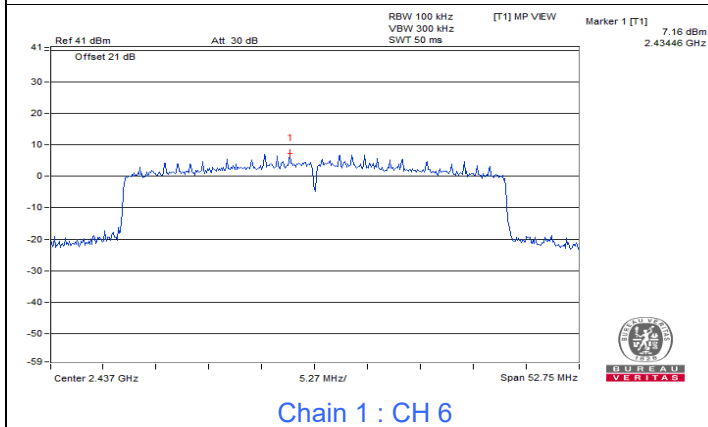
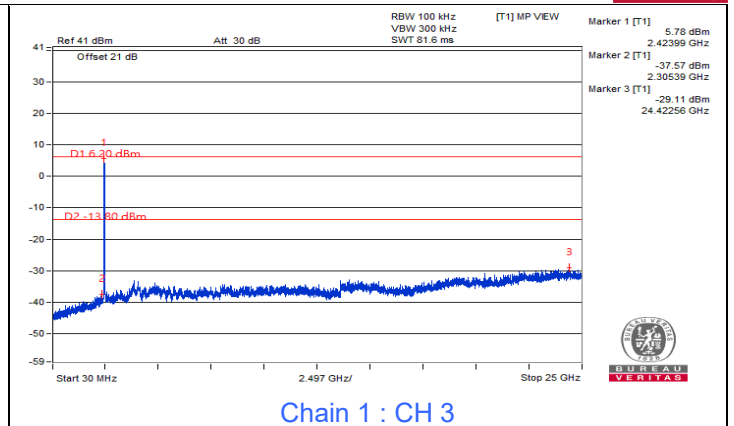
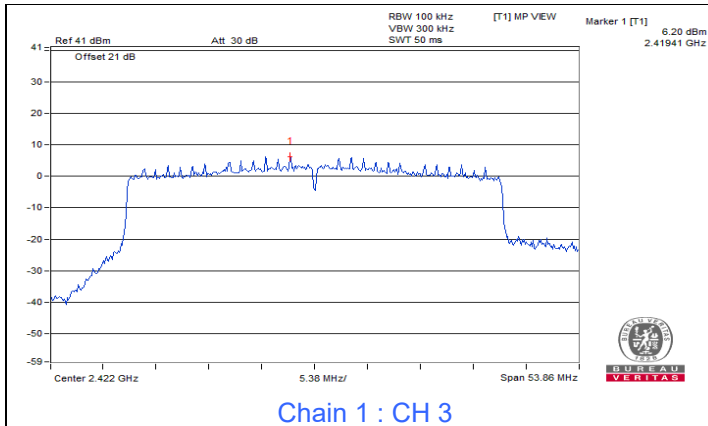
802.11ax (HE20)





802.11ax (HE40)





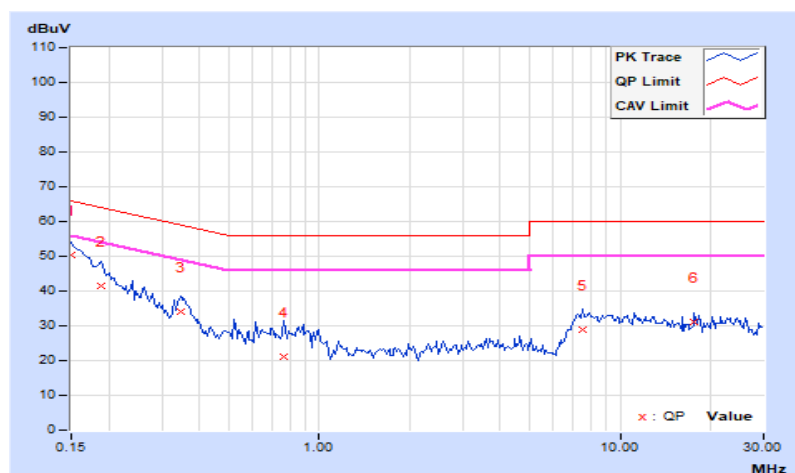
7.5 AC Power Conducted Emissions

RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 73% RH
Tested By	Sampson Chen		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.96	40.53	27.23	50.49	37.19	66.00	56.00	-15.51	-18.81
2	0.18906	9.95	31.37	16.83	41.32	26.78	64.08	54.08	-22.76	-27.30
3	0.34531	9.96	24.28	18.41	34.24	28.37	59.07	49.07	-24.83	-20.70
4	0.76719	9.98	11.22	4.10	21.20	14.08	56.00	46.00	-34.80	-31.92
5	7.49219	10.47	18.56	13.55	29.03	24.02	60.00	50.00	-30.97	-25.98
6	17.69531	11.08	20.16	15.61	31.24	26.69	60.00	50.00	-28.76	-23.31

Remarks:

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

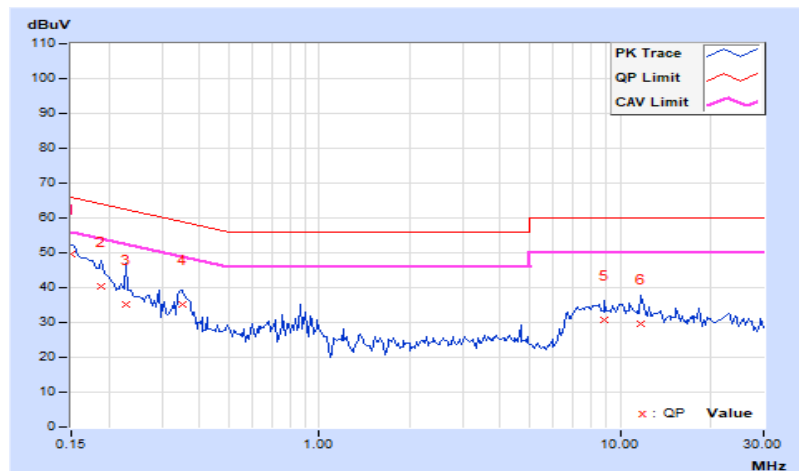


RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 73% RH
Tested By	Sampson Chen		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.00	39.52	26.02	49.52	36.02	66.00	56.00	-16.48	-19.98
2	0.18906	10.00	30.33	16.35	40.33	26.35	64.08	54.08	-23.75	-27.73
3	0.22812	10.00	25.28	13.27	35.28	23.27	62.52	52.52	-27.24	-29.25
4	0.34922	10.01	25.25	20.73	35.26	30.74	58.98	48.98	-23.72	-18.24
5	8.87500	10.58	20.31	15.14	30.89	25.72	60.00	50.00	-29.11	-24.28
6	11.78125	10.72	18.73	13.47	29.45	24.19	60.00	50.00	-30.55	-25.81

Remarks:

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



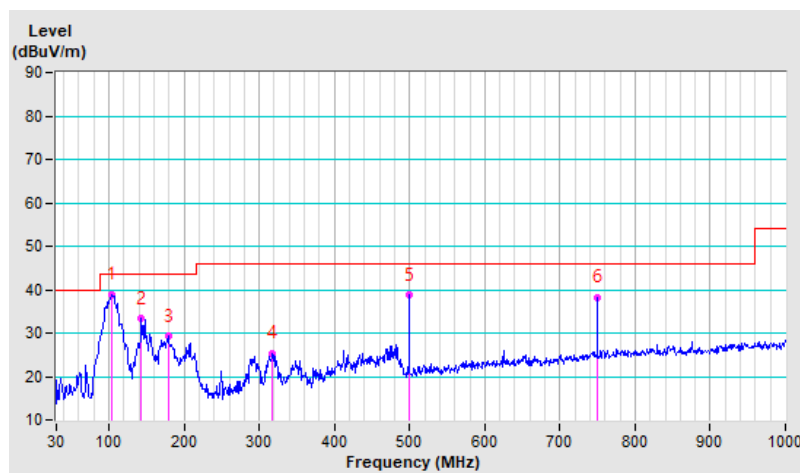
7.6 Unwanted Emissions below 1 GHz

RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	29°C, 77% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	104.01	38.9 QP	43.5	-4.6	2.00 H	258	55.0	-16.1
2	143.30	33.3 QP	43.5	-10.2	2.00 H	287	45.9	-12.6
3	179.39	29.2 QP	43.5	-14.3	1.50 H	271	43.2	-14.0
4	317.62	25.4 QP	46.0	-20.6	1.00 H	50	36.4	-11.0
5	499.99	38.7 QP	46.0	-7.3	1.50 H	236	45.4	-6.7
6	750.02	38.3 QP	46.0	-7.7	1.00 H	176	39.9	-1.6

Remarks:

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

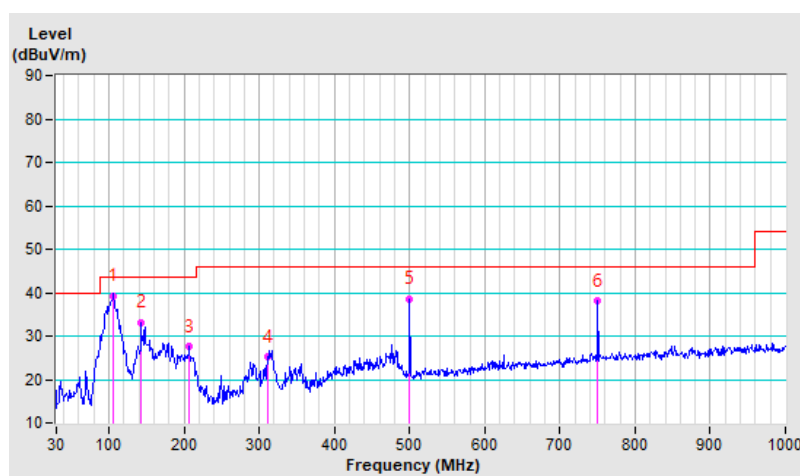


RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	29°C, 77% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	106.15	39.2 QP	43.5	-4.3	2.00 V	215	55.1	-15.9
2	143.25	33.1 QP	43.5	-10.4	2.00 V	317	45.7	-12.6
3	207.03	27.5 QP	43.5	-16.0	1.50 V	245	43.0	-15.5
4	312.14	25.1 QP	46.0	-20.9	1.00 V	33	36.3	-11.2
5	499.99	38.4 QP	46.0	-7.6	1.50 V	240	45.1	-6.7
6	750.02	38.0 QP	46.0	-8.0	1.00 V	178	39.6	-1.6

Remarks:

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



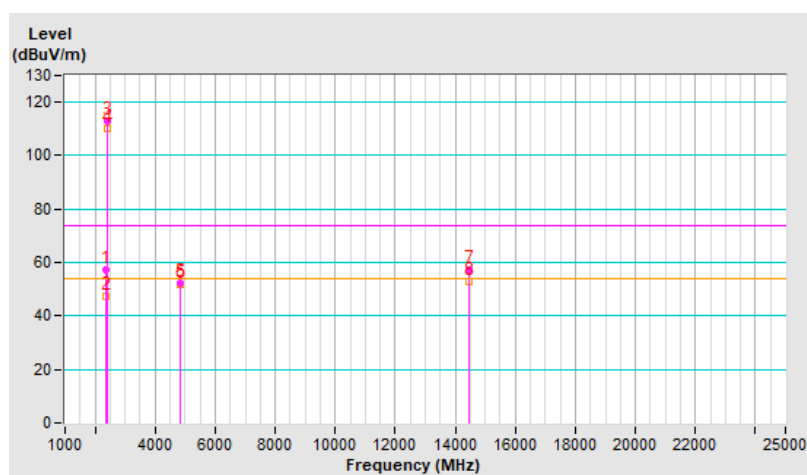
7.7 Unwanted Emissions above 1 GHz

RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2377.00	57.3 PK	74.0	-16.7	2.04 H	257	57.4	-0.1
2	2377.00	47.6 AV	54.0	-6.4	2.04 H	257	47.7	-0.1
3	*2412.00	112.7 PK			2.04 H	257	112.8	-0.1
4	*2412.00	110.4 AV			2.04 H	257	110.5	-0.1
5	4824.00	52.4 PK	74.0	-21.6	1.00 H	360	47.9	4.5
6	4824.00	51.6 AV	54.0	-2.4	1.00 H	360	47.1	4.5
7	14472.00	57.3 PK	74.0	-16.7	1.50 H	352	38.4	18.9
8	14472.00	53.1 AV	54.0	-0.9	1.50 H	352	34.2	18.9

Remarks:

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

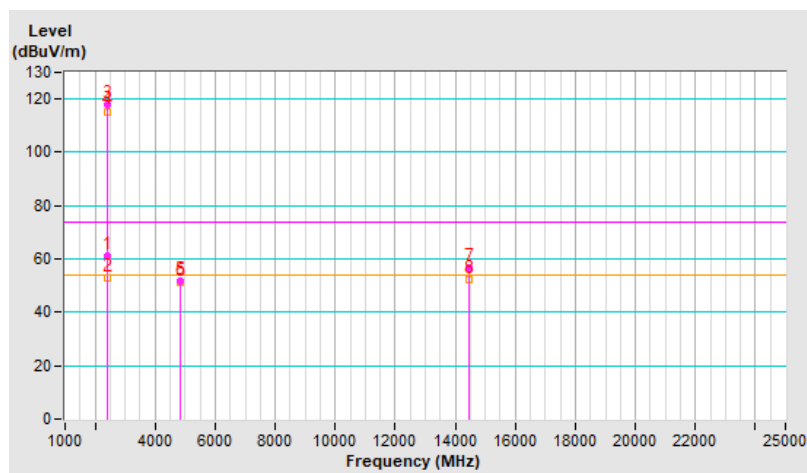


RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	61.1 PK	74.0	-12.9	1.64 V	307	61.2	-0.1
2	2390.00	53.1 AV	54.0	-0.9	1.64 V	307	53.2	-0.1
3	*2412.00	118.1 PK			1.64 V	307	118.2	-0.1
4	*2412.00	115.4 AV			1.64 V	307	115.5	-0.1
5	4824.00	51.9 PK	74.0	-22.1	3.01 V	77	47.4	4.5
6	4824.00	51.1 AV	54.0	-2.9	3.01 V	77	46.6	4.5
7	14472.00	56.8 PK	74.0	-17.2	1.00 V	66	37.9	18.9
8	14472.00	52.4 AV	54.0	-1.6	1.00 V	66	33.5	18.9

Remarks:

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

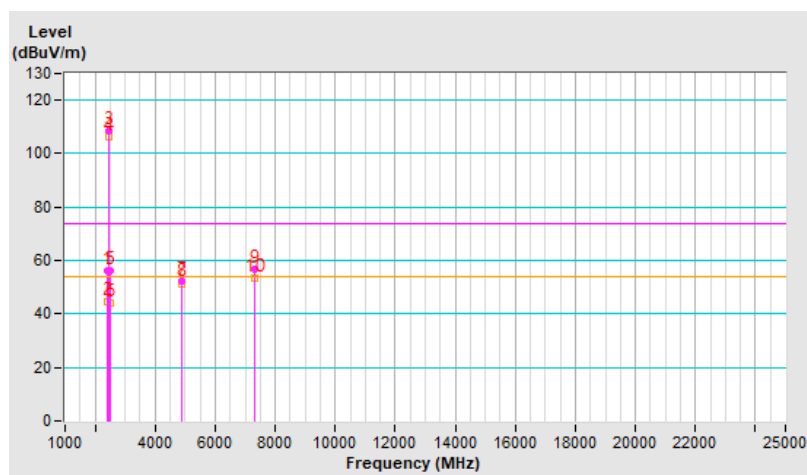


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.1 PK	74.0	-17.9	3.88 H	169	56.2	-0.1
2	2390.00	44.5 AV	54.0	-9.5	3.88 H	169	44.6	-0.1
3	*2437.00	108.6 PK			3.88 H	169	108.7	-0.1
4	*2437.00	106.4 AV			3.88 H	169	106.5	-0.1
5	2483.50	56.2 PK	74.0	-17.8	3.88 H	169	56.4	-0.2
6	2483.50	43.9 AV	54.0	-10.1	3.88 H	169	44.1	-0.2
7	4874.00	52.5 PK	74.0	-21.5	1.00 H	360	47.9	4.6
8	4874.00	51.5 AV	54.0	-2.5	1.00 H	360	46.9	4.6
9	7311.00	56.6 PK	74.0	-17.4	1.05 H	360	45.0	11.6
10	7311.00	53.2 AV	54.0	-0.8	1.05 H	360	41.6	11.6

Remarks:

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

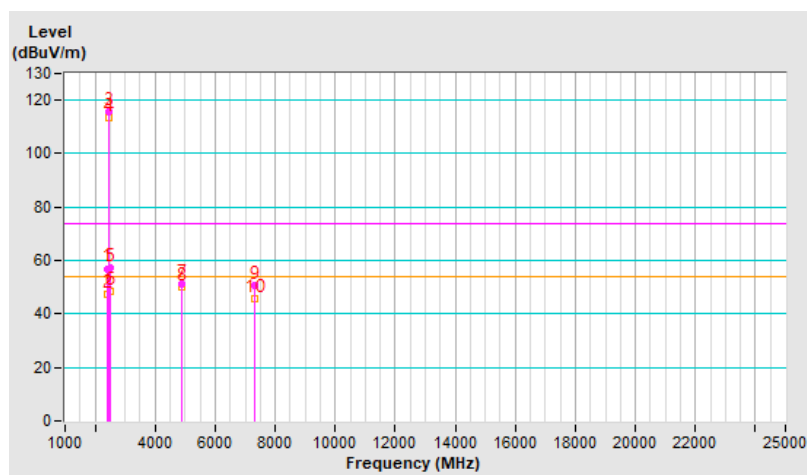


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.0 PK	74.0	-17.0	1.86 V	308	57.1	-0.1
2	2390.00	47.4 AV	54.0	-6.6	1.86 V	308	47.5	-0.1
3	*2437.00	115.8 PK			1.86 V	308	115.9	-0.1
4	*2437.00	113.5 AV			1.86 V	308	113.6	-0.1
5	2483.50	57.1 PK	74.0	-16.9	1.86 V	308	57.3	-0.2
6	2483.50	48.2 AV	54.0	-5.8	1.86 V	308	48.4	-0.2
7	4874.00	51.3 PK	74.0	-22.7	3.25 V	63	46.7	4.6
8	4874.00	50.3 AV	54.0	-3.7	3.25 V	63	45.7	4.6
9	7311.00	50.7 PK	74.0	-23.3	1.73 V	85	39.1	11.6
10	7311.00	45.5 AV	54.0	-8.5	1.73 V	85	33.9	11.6

Remarks:

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

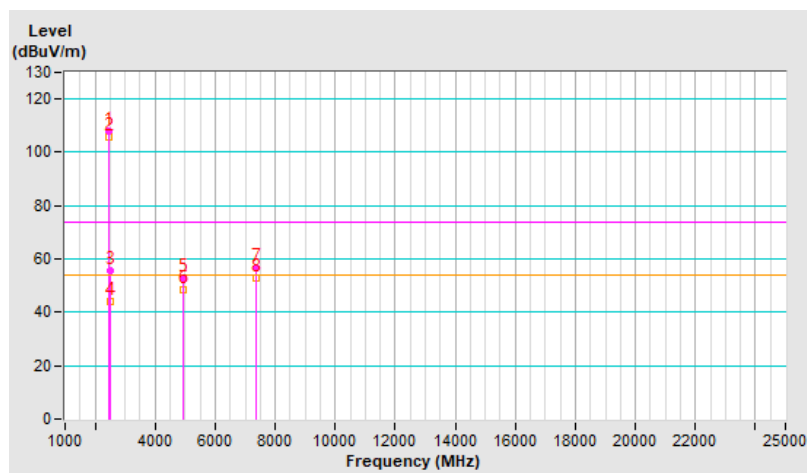


RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	*2462.00	107.9 PK			1.50 H	255	107.9	0.0
2	*2462.00	105.5 AV			1.50 H	255	105.5	0.0
3	2483.50	55.5 PK	74.0	-18.5	1.50 H	255	55.7	-0.2
4	2483.50	44.1 AV	54.0	-9.9	1.50 H	255	44.3	-0.2
5	4924.00	53.0 PK	74.0	-21.0	1.50 H	3	48.3	4.7
6	4924.00	48.4 AV	54.0	-5.6	1.50 H	3	43.7	4.7
7	7386.00	56.8 PK	74.0	-17.2	2.52 H	360	45.2	11.6
8	7386.00	53.0 AV	54.0	-1.0	2.52 H	360	41.4	11.6

Remarks:

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

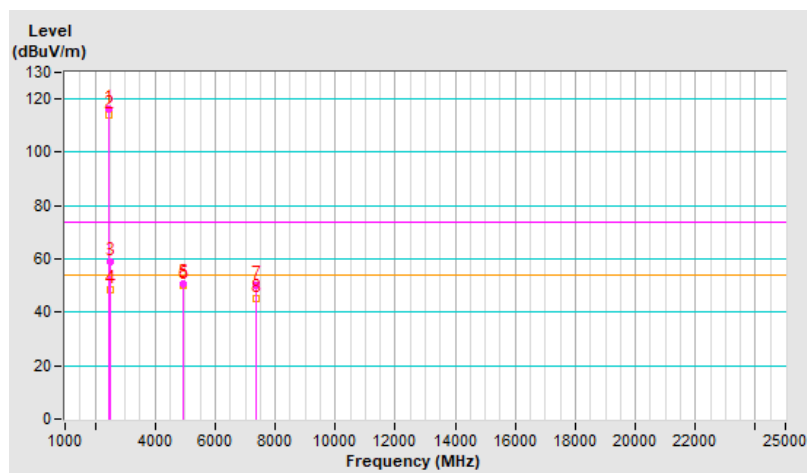


RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	116.3 PK			1.27 V	274	116.3	0.0
2	*2462.00	113.9 AV			1.27 V	274	113.9	0.0
3	2483.50	58.8 PK	74.0	-15.2	1.27 V	274	59.0	-0.2
4	2483.50	48.3 AV	54.0	-5.7	1.27 V	274	48.5	-0.2
5	4924.00	50.9 PK	74.0	-23.1	3.26 V	64	46.2	4.7
6	4924.00	50.0 AV	54.0	-4.0	3.26 V	64	45.3	4.7
7	7386.00	50.3 PK	74.0	-23.7	1.78 V	75	38.7	11.6
8	7386.00	45.3 AV	54.0	-8.7	1.78 V	75	33.7	11.6

Remarks:

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

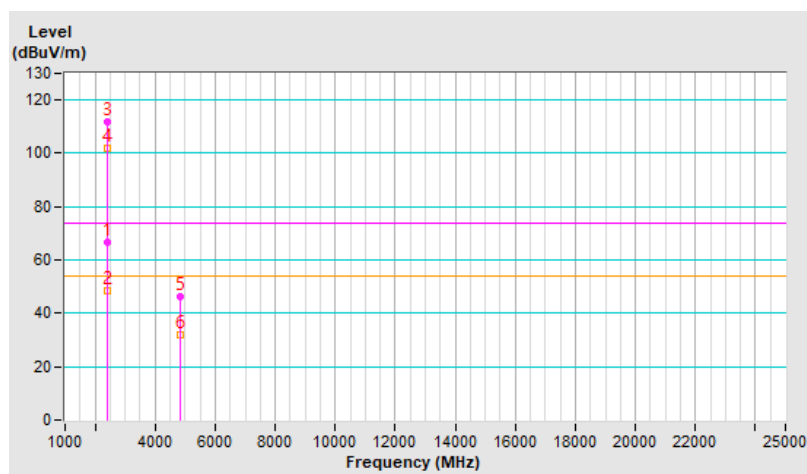


RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2388.90	66.5 PK	74.0	-7.5	1.05 H	198	66.6	-0.1
2	2388.90	48.5 AV	54.0	-5.5	1.05 H	198	48.6	-0.1
3	*2412.00	111.7 PK			1.05 H	198	111.8	-0.1
4	*2412.00	102.0 AV			1.05 H	198	102.1	-0.1
5	4824.00	46.3 PK	74.0	-27.7	1.00 H	360	41.8	4.5
6	4824.00	32.1 AV	54.0	-21.9	1.00 H	360	27.6	4.5

Remarks:

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

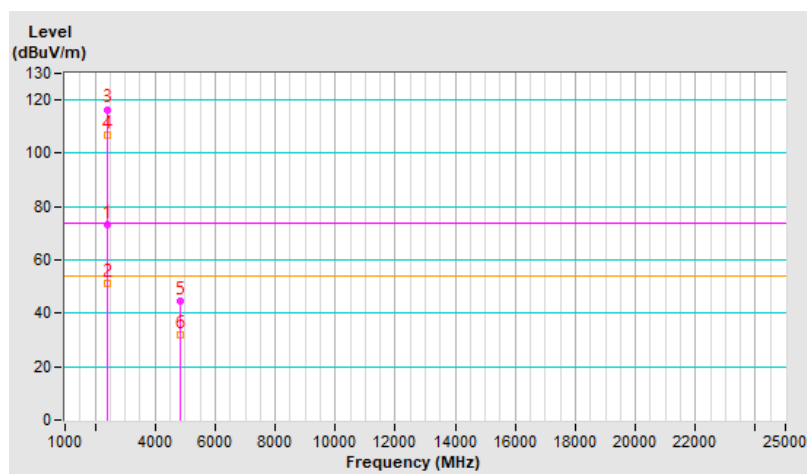


RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2388.90	73.4 PK	74.0	-0.6	1.50 V	279	73.5	-0.1
2	2388.90	51.4 AV	54.0	-2.6	1.50 V	279	51.5	-0.1
3	*2412.00	116.5 PK			1.50 V	279	116.6	-0.1
4	*2412.00	106.8 AV			1.50 V	279	106.9	-0.1
5	4824.00	44.4 PK	74.0	-29.6	1.02 V	360	39.9	4.5
6	4824.00	31.9 AV	54.0	-22.1	1.02 V	360	27.4	4.5

Remarks:

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

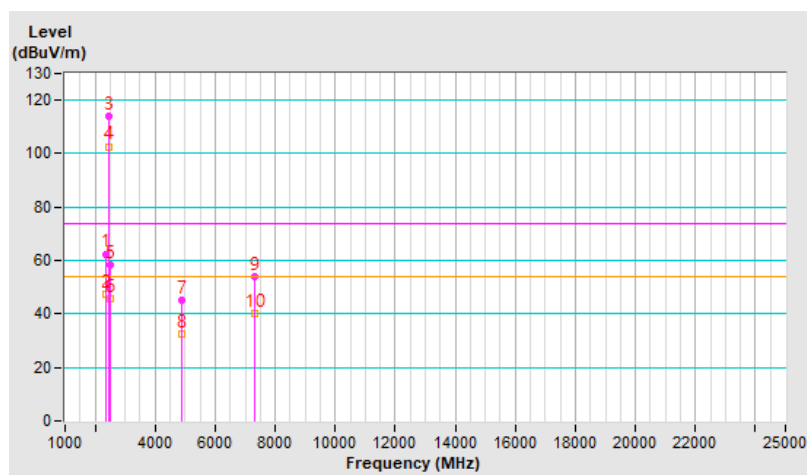


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2383.50	62.5 PK	74.0	-11.5	1.28 H	165	62.6	-0.1
2	2383.50	47.2 AV	54.0	-6.8	1.28 H	165	47.3	-0.1
3	*2437.00	114.0 PK			1.28 H	165	114.1	-0.1
4	*2437.00	102.7 AV			1.28 H	165	102.8	-0.1
5	2483.50	58.5 PK	74.0	-15.5	1.28 H	165	58.7	-0.2
6	2483.50	45.9 AV	54.0	-8.1	1.28 H	165	46.1	-0.2
7	4874.00	44.9 PK	74.0	-29.1	1.00 H	360	40.3	4.6
8	4874.00	32.3 AV	54.0	-21.7	1.00 H	360	27.7	4.6
9	7311.00	54.2 PK	74.0	-19.8	3.24 H	360	42.6	11.6
10	7311.00	40.4 AV	54.0	-13.6	3.24 H	360	28.8	11.6

Remarks:

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

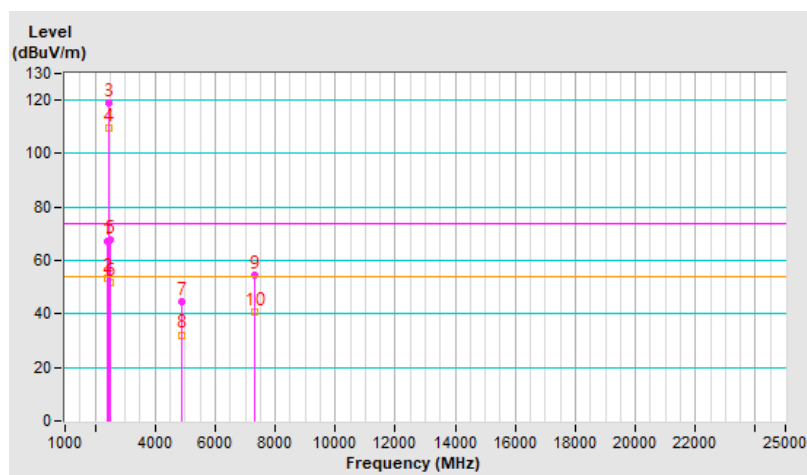


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	67.4 PK	74.0	-6.6	1.20 V	249	67.5	-0.1
2	2390.00	53.4 AV	54.0	-0.6	1.20 V	249	53.5	-0.1
3	*2437.00	119.2 PK			1.20 V	249	119.3	-0.1
4	*2437.00	109.6 AV			1.20 V	249	109.7	-0.1
5	2483.50	67.6 PK	74.0	-6.4	1.20 V	249	67.8	-0.2
6	2483.50	51.7 AV	54.0	-2.3	1.20 V	249	51.9	-0.2
7	4874.00	44.7 PK	74.0	-29.3	1.04 V	360	40.1	4.6
8	4874.00	32.2 AV	54.0	-21.8	1.04 V	360	27.6	4.6
9	7311.00	54.6 PK	74.0	-19.4	3.25 V	360	43.0	11.6
10	7311.00	40.5 AV	54.0	-13.5	3.25 V	360	28.9	11.6

Remarks:

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

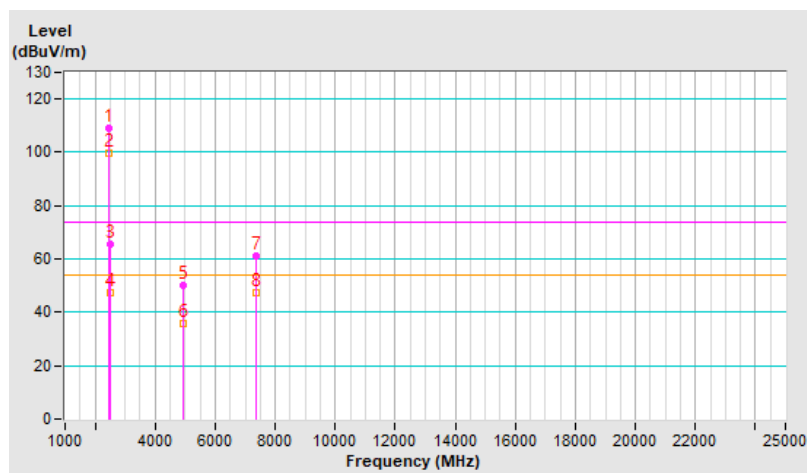


RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	109.3 PK			1.49 H	255	109.3	0.0
2	*2462.00	99.5 AV			1.49 H	255	99.5	0.0
3	2484.90	65.6 PK	74.0	-8.4	1.49 H	255	65.8	-0.2
4	2484.90	47.5 AV	54.0	-6.5	1.49 H	255	47.7	-0.2
5	4924.00	50.0 PK	74.0	-24.0	1.00 H	360	45.3	4.7
6	4924.00	35.8 AV	54.0	-18.2	1.00 H	360	31.1	4.7
7	7386.00	61.3 PK	74.0	-12.7	2.48 H	76	49.7	11.6
8	7386.00	47.3 AV	54.0	-6.7	2.48 H	76	35.7	11.6

Remarks:

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

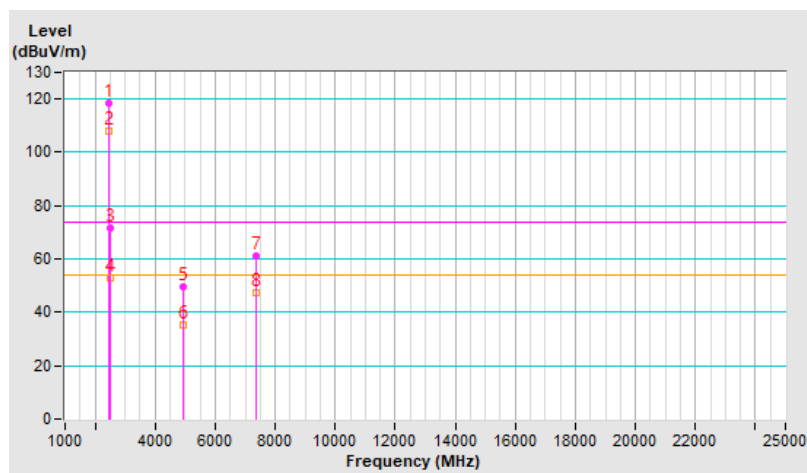


RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	118.5 PK			1.24 V	274	118.5	0.0
2	*2462.00	108.0 AV			1.24 V	274	108.0	0.0
3	2483.50	71.5 PK	74.0	-2.5	1.24 V	274	71.7	-0.2
4	2483.50	52.7 AV	54.0	-1.3	1.24 V	274	52.9	-0.2
5	4924.00	49.6 PK	74.0	-24.4	1.05 V	360	44.9	4.7
6	4924.00	35.3 AV	54.0	-18.7	1.05 V	360	30.6	4.7
7	7386.00	61.0 PK	74.0	-13.0	2.46 V	88	49.4	11.6
8	7386.00	47.1 AV	54.0	-6.9	2.46 V	88	35.5	11.6

Remarks:

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

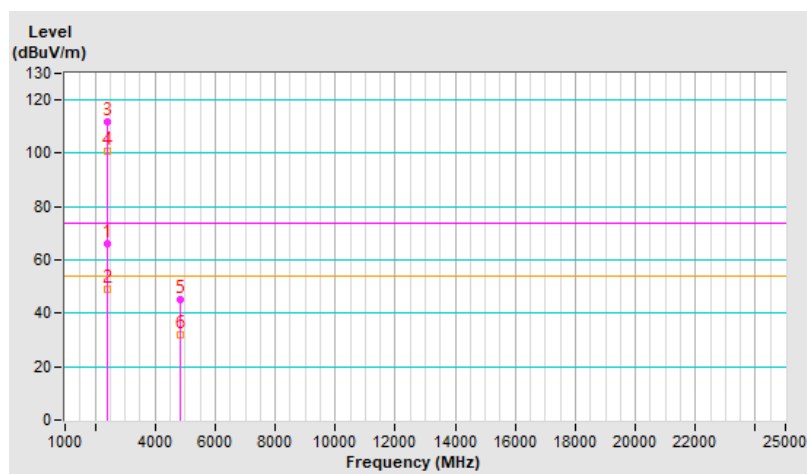


RF Mode	802.11ax (HE20)	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2389.00	65.9 PK	74.0	-8.1	1.05 H	197	66.0	-0.1
2	2389.00	48.9 AV	54.0	-5.1	1.05 H	197	49.0	-0.1
3	*2412.00	111.8 PK			1.05 H	197	111.9	-0.1
4	*2412.00	100.7 AV			1.05 H	197	100.8	-0.1
5	4824.00	44.9 PK	74.0	-29.1	1.03 H	355	40.4	4.5
6	4824.00	32.1 AV	54.0	-21.9	1.03 H	355	27.6	4.5

Remarks:

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

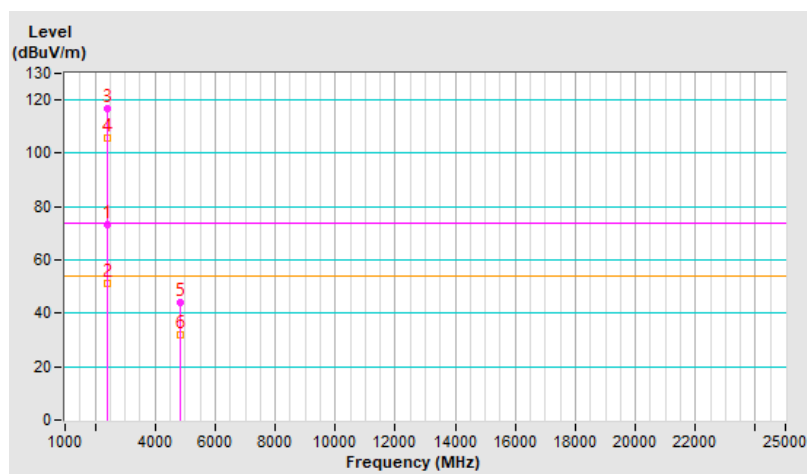


RF Mode	802.11ax (HE20)	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2387.90	73.4 PK	74.0	-0.6	1.30 V	278	73.5	-0.1
2	2387.90	51.2 AV	54.0	-2.8	1.30 V	278	51.3	-0.1
3	*2412.00	116.7 PK			1.30 V	278	116.8	-0.1
4	*2412.00	105.8 AV			1.30 V	278	105.9	-0.1
5	4824.00	44.0 PK	74.0	-30.0	1.00 V	357	39.5	4.5
6	4824.00	31.7 AV	54.0	-22.3	1.00 V	357	27.2	4.5

Remarks:

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

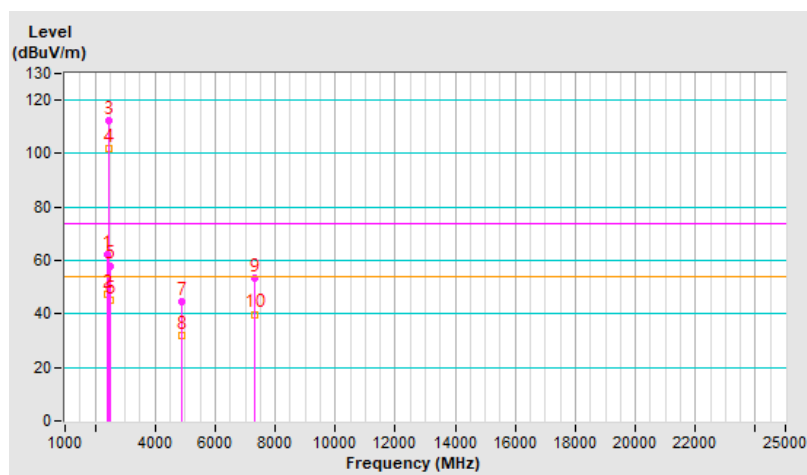


RF Mode	802.11ax (HE20)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2388.10	62.3 PK	74.0	-11.7	1.02 H	182	62.4	-0.1
2	2388.10	47.3 AV	54.0	-6.7	1.02 H	182	47.4	-0.1
3	*2437.00	112.3 PK			1.02 H	182	112.4	-0.1
4	*2437.00	102.0 AV			1.02 H	182	102.1	-0.1
5	2483.50	58.1 PK	74.0	-15.9	1.02 H	182	58.3	-0.2
6	2483.50	44.9 AV	54.0	-9.1	1.02 H	182	45.1	-0.2
7	4874.00	44.7 PK	74.0	-29.3	1.05 H	360	40.1	4.6
8	4874.00	32.0 AV	54.0	-22.0	1.05 H	360	27.4	4.6
9	7311.00	53.6 PK	74.0	-20.4	3.24 H	360	42.0	11.6
10	7311.00	39.9 AV	54.0	-14.1	3.24 H	360	28.3	11.6

Remarks:

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

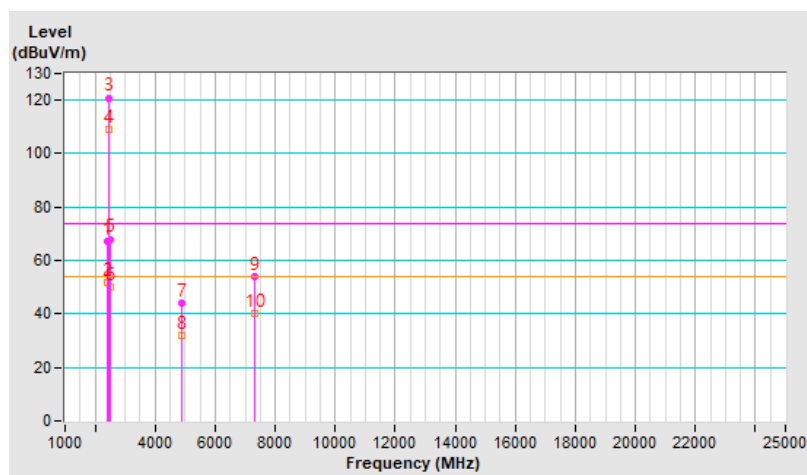


RF Mode	802.11ax (HE20)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	67.0 PK	74.0	-7.0	1.39 V	283	67.1	-0.1
2	2390.00	51.7 AV	54.0	-2.3	1.39 V	283	51.8	-0.1
3	*2437.00	120.9 PK			1.39 V	283	121.0	-0.1
4	*2437.00	109.0 AV			1.39 V	283	109.1	-0.1
5	2483.50	68.0 PK	74.0	-6.0	1.39 V	283	68.2	-0.2
6	2483.50	50.3 AV	54.0	-3.7	1.39 V	283	50.5	-0.2
7	4874.00	44.2 PK	74.0	-29.8	1.01 V	360	39.6	4.6
8	4874.00	31.9 AV	54.0	-22.1	1.01 V	360	27.3	4.6
9	7311.00	54.0 PK	74.0	-20.0	3.28 V	360	42.4	11.6
10	7311.00	40.2 AV	54.0	-13.8	3.28 V	360	28.6	11.6

Remarks:

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

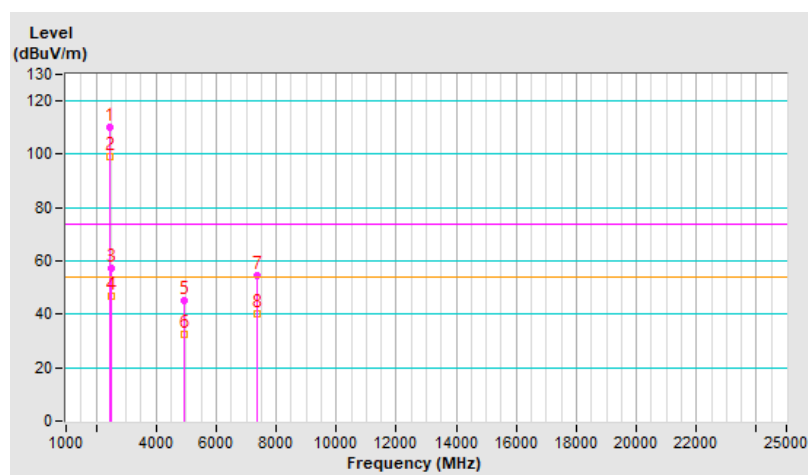


RF Mode	802.11ax (HE20)	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	110.4 PK			1.50 H	253	110.4	0.0
2	*2462.00	98.9 AV			1.50 H	253	98.9	0.0
3	2485.70	57.2 PK	74.0	-16.8	1.50 H	253	57.4	-0.2
4	2485.70	46.8 AV	54.0	-7.2	1.50 H	253	47.0	-0.2
5	4924.00	45.4 PK	74.0	-28.6	1.04 H	357	40.7	4.7
6	4924.00	32.7 AV	54.0	-21.3	1.04 H	357	28.0	4.7
7	7386.00	54.5 PK	74.0	-19.5	3.28 H	360	42.9	11.6
8	7386.00	40.4 AV	54.0	-13.6	3.28 H	360	28.8	11.6

Remarks:

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

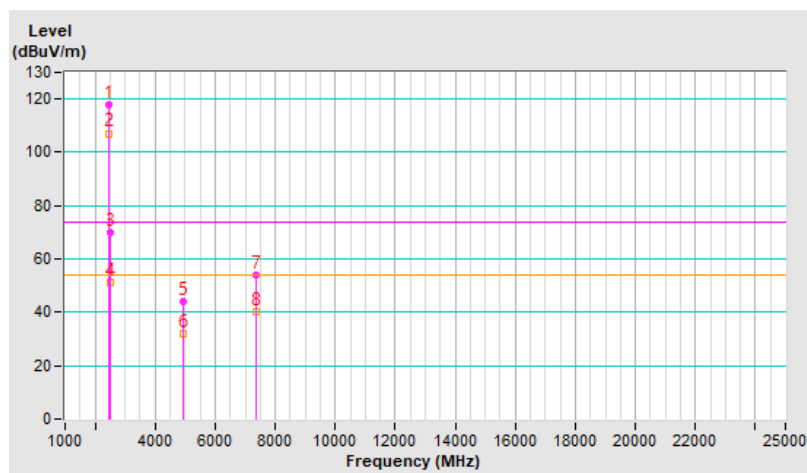


RF Mode	802.11ax (HE20)	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	118.1 PK			1.21 V	278	118.1	0.0
2	*2462.00	107.1 AV			1.21 V	278	107.1	0.0
3	2484.10	70.1 PK	74.0	-3.9	1.21 V	278	70.3	-0.2
4	2484.10	51.2 AV	54.0	-2.8	1.21 V	278	51.4	-0.2
5	4924.00	43.8 PK	74.0	-30.2	1.01 V	360	39.1	4.7
6	4924.00	31.7 AV	54.0	-22.3	1.01 V	360	27.0	4.7
7	7386.00	54.1 PK	74.0	-19.9	3.30 V	360	42.5	11.6
8	7386.00	40.3 AV	54.0	-13.7	3.30 V	360	28.7	11.6

Remarks:

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

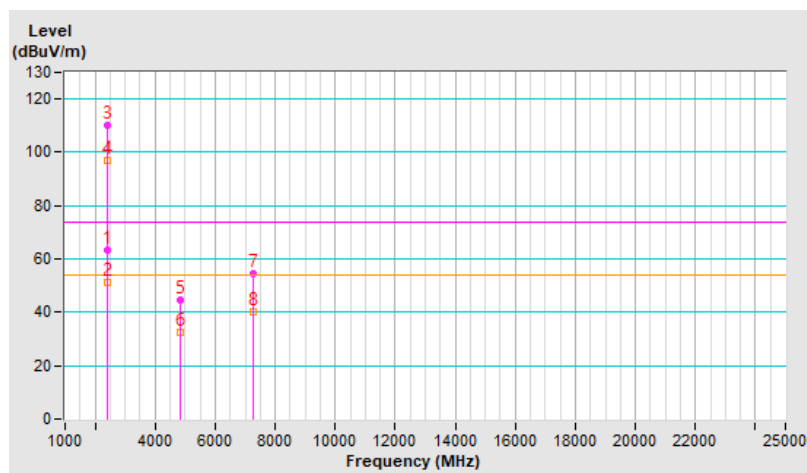


RF Mode	802.11ax (HE40)	Channel	CH 3 : 2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	63.4 PK	74.0	-10.6	1.00 H	173	63.5	-0.1
2	2390.00	51.4 AV	54.0	-2.6	1.00 H	173	51.5	-0.1
3	*2422.00	110.0 PK			1.00 H	173	110.1	-0.1
4	*2422.00	97.1 AV			1.00 H	173	97.2	-0.1
5	4844.00	44.7 PK	74.0	-29.3	1.06 H	360	40.2	4.5
6	4844.00	32.3 AV	54.0	-21.7	1.06 H	360	27.8	4.5
7	7266.00	54.4 PK	74.0	-19.6	3.27 H	360	43.1	11.3
8	7266.00	40.3 AV	54.0	-13.7	3.27 H	360	29.0	11.3

Remarks:

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

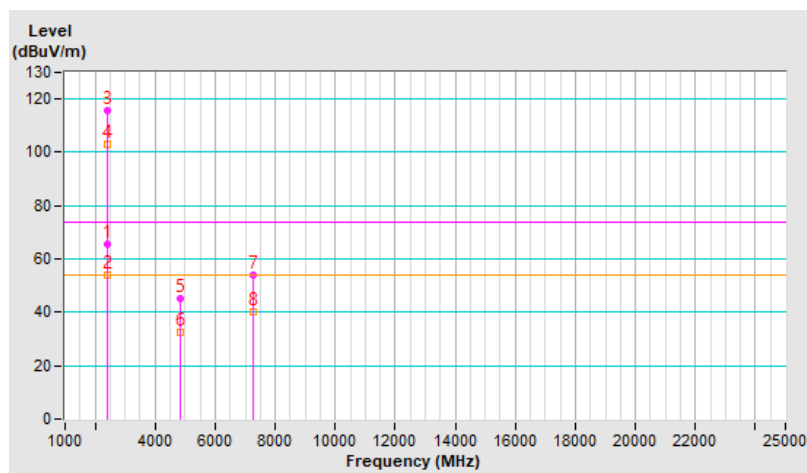


RF Mode	802.11ax (HE40)	Channel	CH 3 : 2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	65.3 PK	74.0	-8.7	1.22 V	278	65.4	-0.1
2	2390.00	53.8 AV	54.0	-0.2	1.22 V	278	53.9	-0.1
3	*2422.00	115.5 PK			1.22 V	278	115.6	-0.1
4	*2422.00	103.2 AV			1.22 V	278	103.3	-0.1
5	4844.00	45.2 PK	74.0	-28.8	1.01 V	360	40.7	4.5
6	4844.00	32.5 AV	54.0	-21.5	1.01 V	360	28.0	4.5
7	7266.00	54.1 PK	74.0	-19.9	3.26 V	360	42.8	11.3
8	7266.00	40.1 AV	54.0	-13.9	3.26 V	360	28.8	11.3

Remarks:

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

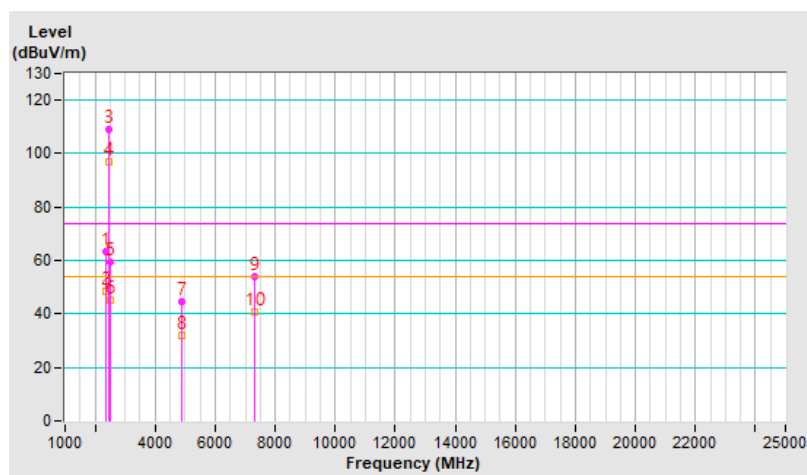


RF Mode	802.11ax (HE40)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2373.50	63.1 PK	74.0	-10.9	1.26 H	166	63.1	0.0
2	2373.50	48.5 AV	54.0	-5.5	1.26 H	166	48.5	0.0
3	*2437.00	109.1 PK			1.26 H	166	109.2	-0.1
4	*2437.00	97.0 AV			1.26 H	166	97.1	-0.1
5	2495.40	59.5 PK	74.0	-14.5	1.26 H	166	59.7	-0.2
6	2495.40	45.0 AV	54.0	-9.0	1.26 H	166	45.2	-0.2
7	4874.00	44.6 PK	74.0	-29.4	1.00 H	353	40.0	4.6
8	4874.00	32.1 AV	54.0	-21.9	1.00 H	353	27.5	4.6
9	7311.00	54.1 PK	74.0	-19.9	3.28 H	360	42.5	11.6
10	7311.00	40.5 AV	54.0	-13.5	3.28 H	360	28.9	11.6

Remarks:

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

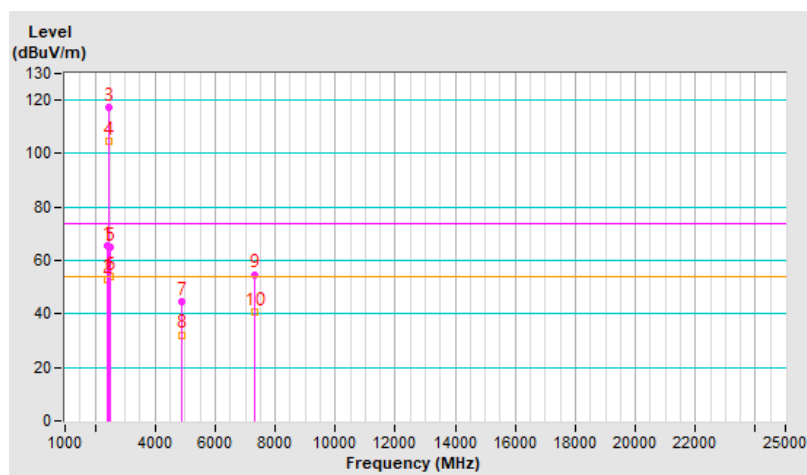


RF Mode	802.11ax (HE40)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	65.6 PK	74.0	-8.4	1.14 V	269	65.7	-0.1
2	2390.00	53.0 AV	54.0	-1.0	1.14 V	269	53.1	-0.1
3	*2437.00	117.4 PK			1.14 V	269	117.5	-0.1
4	*2437.00	104.5 AV			1.14 V	269	104.6	-0.1
5	2483.50	65.0 PK	74.0	-9.0	1.14 V	269	65.2	-0.2
6	2483.50	53.8 AV	54.0	-0.2	1.14 V	269	54.0	-0.2
7	4874.00	44.6 PK	74.0	-29.4	1.04 V	360	40.0	4.6
8	4874.00	32.2 AV	54.0	-21.8	1.04 V	360	27.6	4.6
9	7311.00	54.8 PK	74.0	-19.2	3.31 V	360	43.2	11.6
10	7311.00	40.5 AV	54.0	-13.5	3.31 V	360	28.9	11.6

Remarks:

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

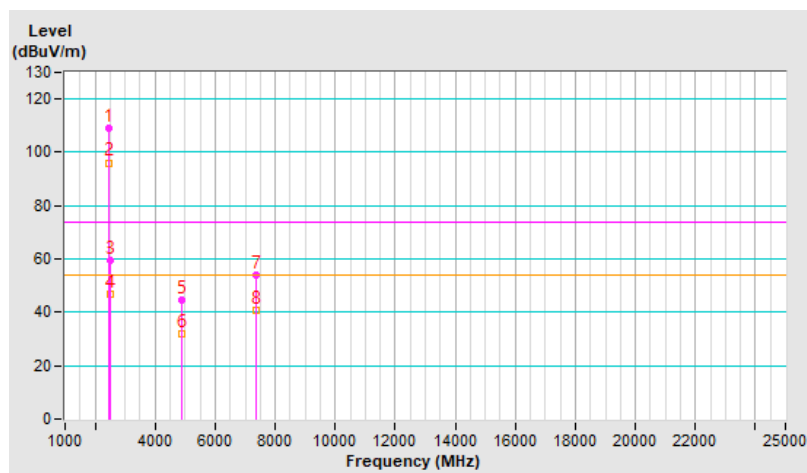


RF Mode	802.11ax (HE40)	Channel	CH 9 : 2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	109.2 PK			1.50 H	162	109.3	-0.1
2	*2452.00	96.1 AV			1.50 H	162	96.2	-0.1
3	2490.50	59.5 PK	74.0	-14.5	1.50 H	162	59.7	-0.2
4	2490.50	46.9 AV	54.0	-7.1	1.50 H	162	47.1	-0.2
5	4904.00	44.7 PK	74.0	-29.3	1.00 H	351	40.1	4.6
6	4904.00	32.0 AV	54.0	-22.0	1.00 H	351	27.4	4.6
7	7356.00	54.0 PK	74.0	-20.0	3.27 H	360	42.2	11.8
8	7356.00	40.5 AV	54.0	-13.5	3.27 H	360	28.7	11.8

Remarks:

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

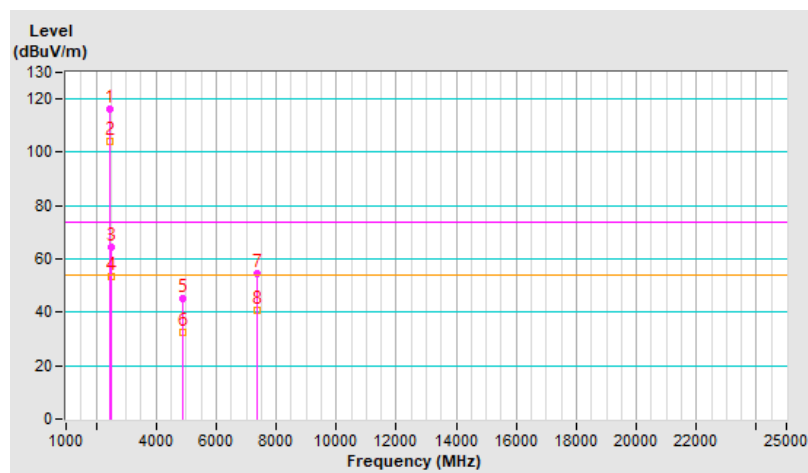


RF Mode	802.11ax (HE40)	Channel	CH 9 : 2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	28°C, 75% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	116.3 PK			1.63 V	281	116.4	-0.1
2	*2452.00	104.0 AV			1.63 V	281	104.1	-0.1
3	2483.50	64.5 PK	74.0	-9.5	1.63 V	281	64.7	-0.2
4	2483.50	53.6 AV	54.0	-0.4	1.63 V	281	53.8	-0.2
5	4904.00	44.9 PK	74.0	-29.1	1.00 V	360	40.3	4.6
6	4904.00	32.3 AV	54.0	-21.7	1.00 V	360	27.7	4.6
7	7356.00	54.5 PK	74.0	-19.5	3.22 V	360	42.7	11.8
8	7356.00	40.6 AV	54.0	-13.4	3.22 V	360	28.8	11.8

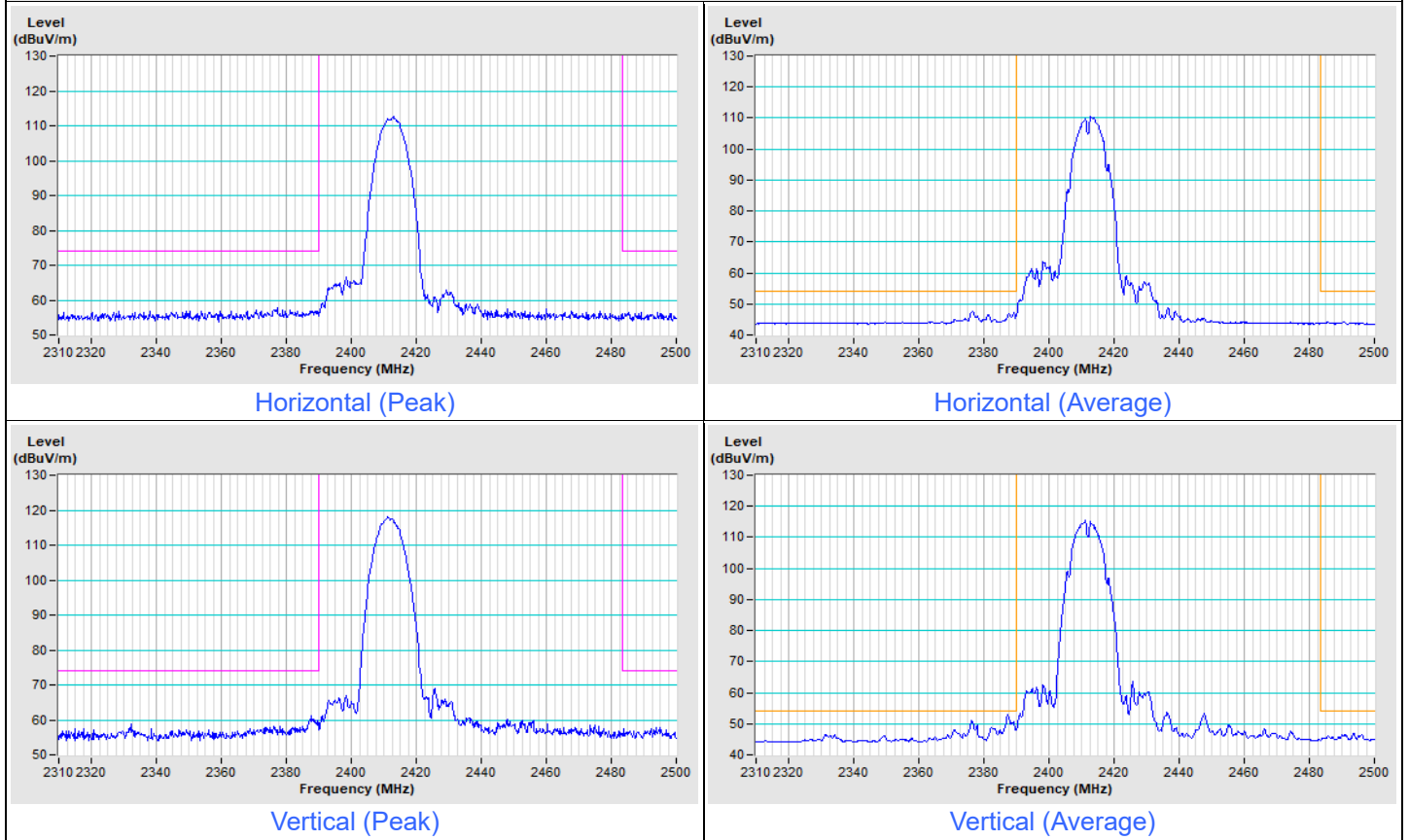
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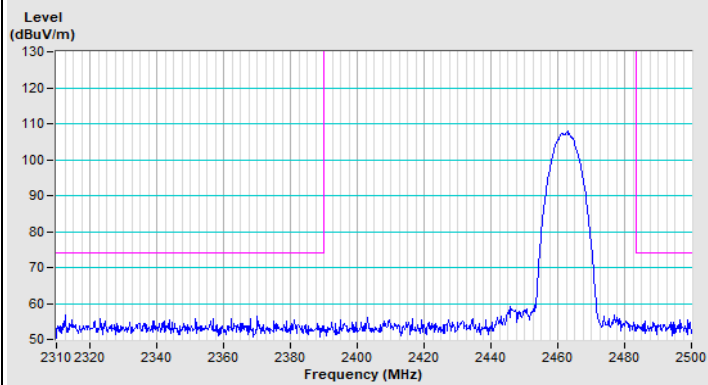
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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



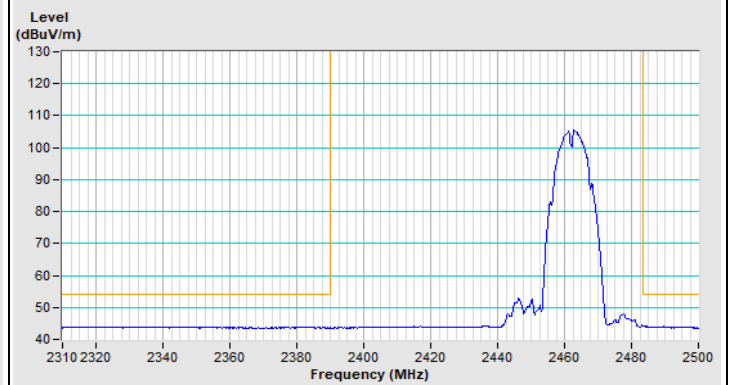
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11b Channel 1

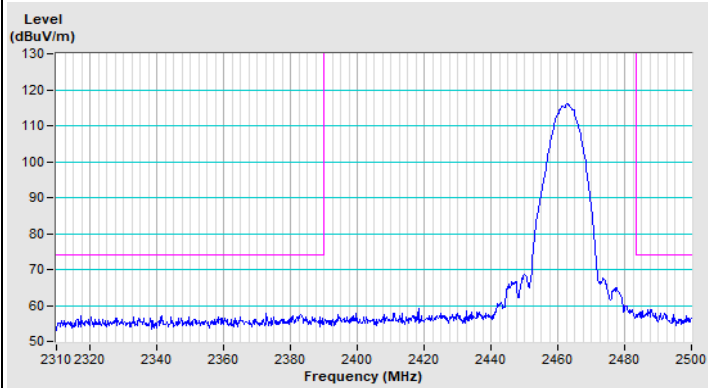


802.11b Channel 11

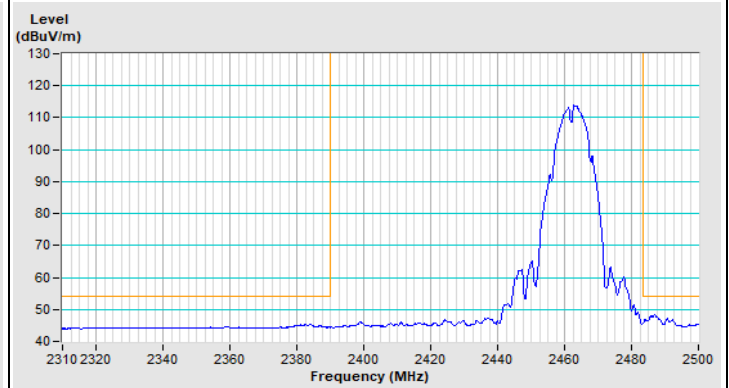
Horizontal (Peak)



Horizontal (Average)



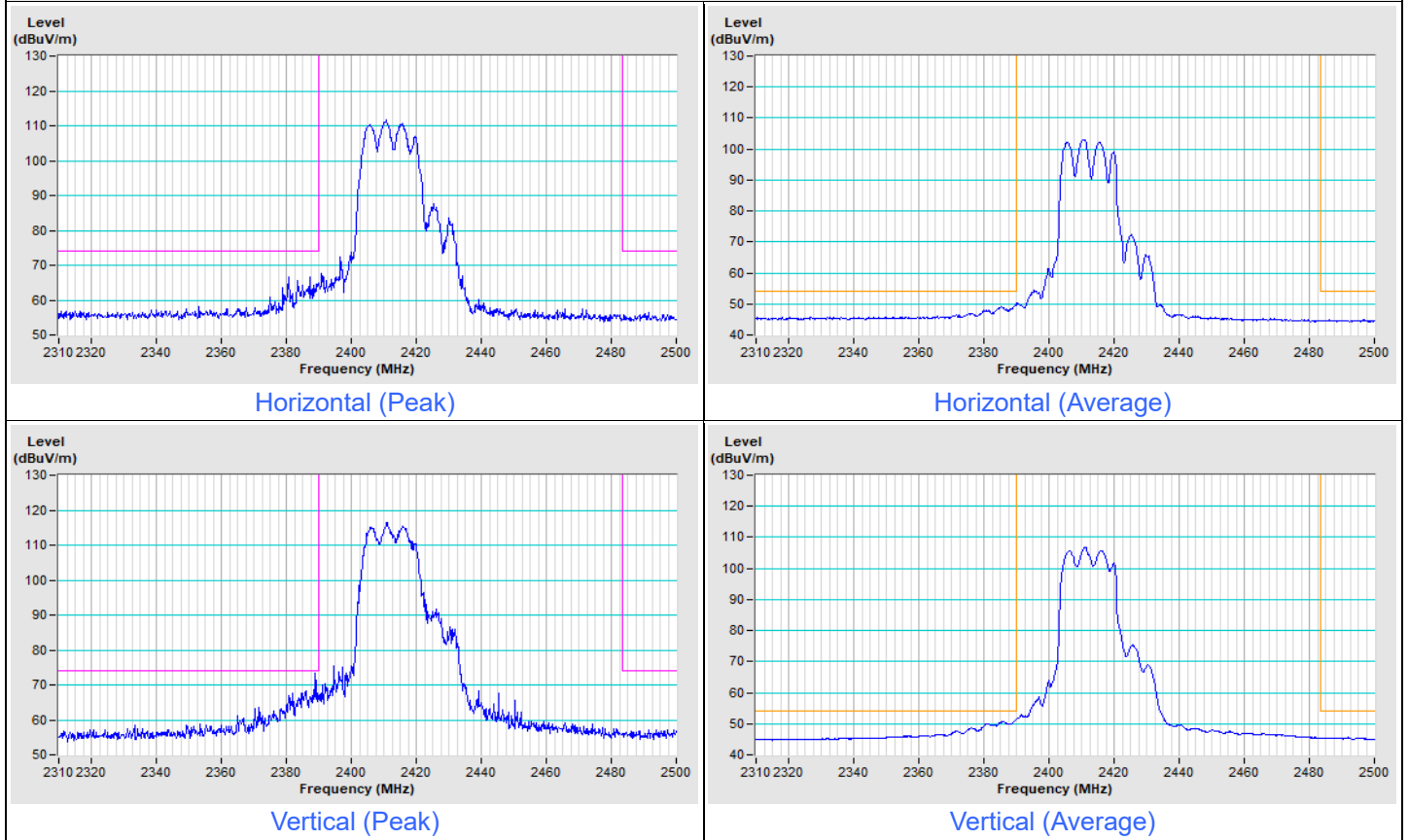
Vertical (Peak)

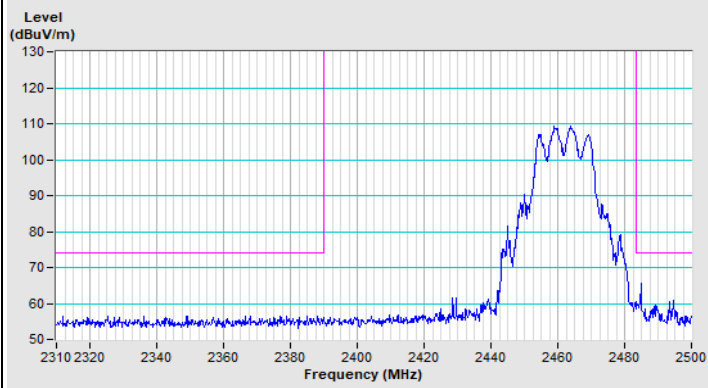


Vertical (Average)

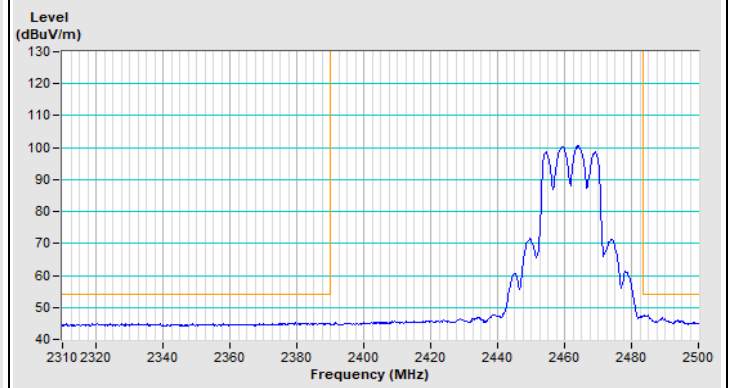
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11g Channel 1

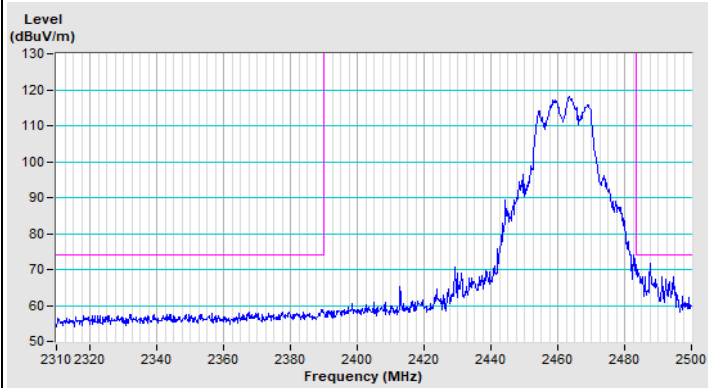


802.11g Channel 11

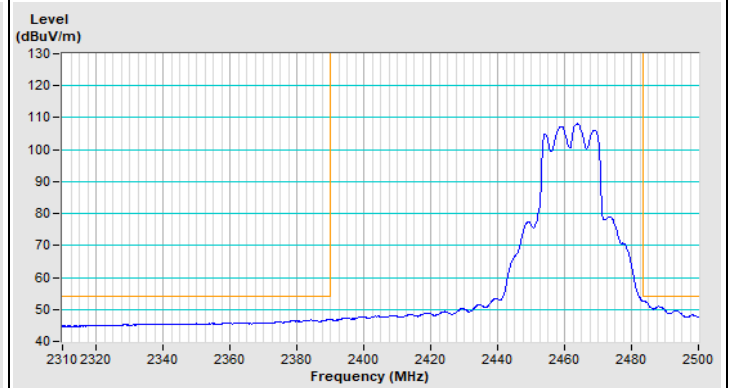
Horizontal (Peak)



Horizontal (Average)



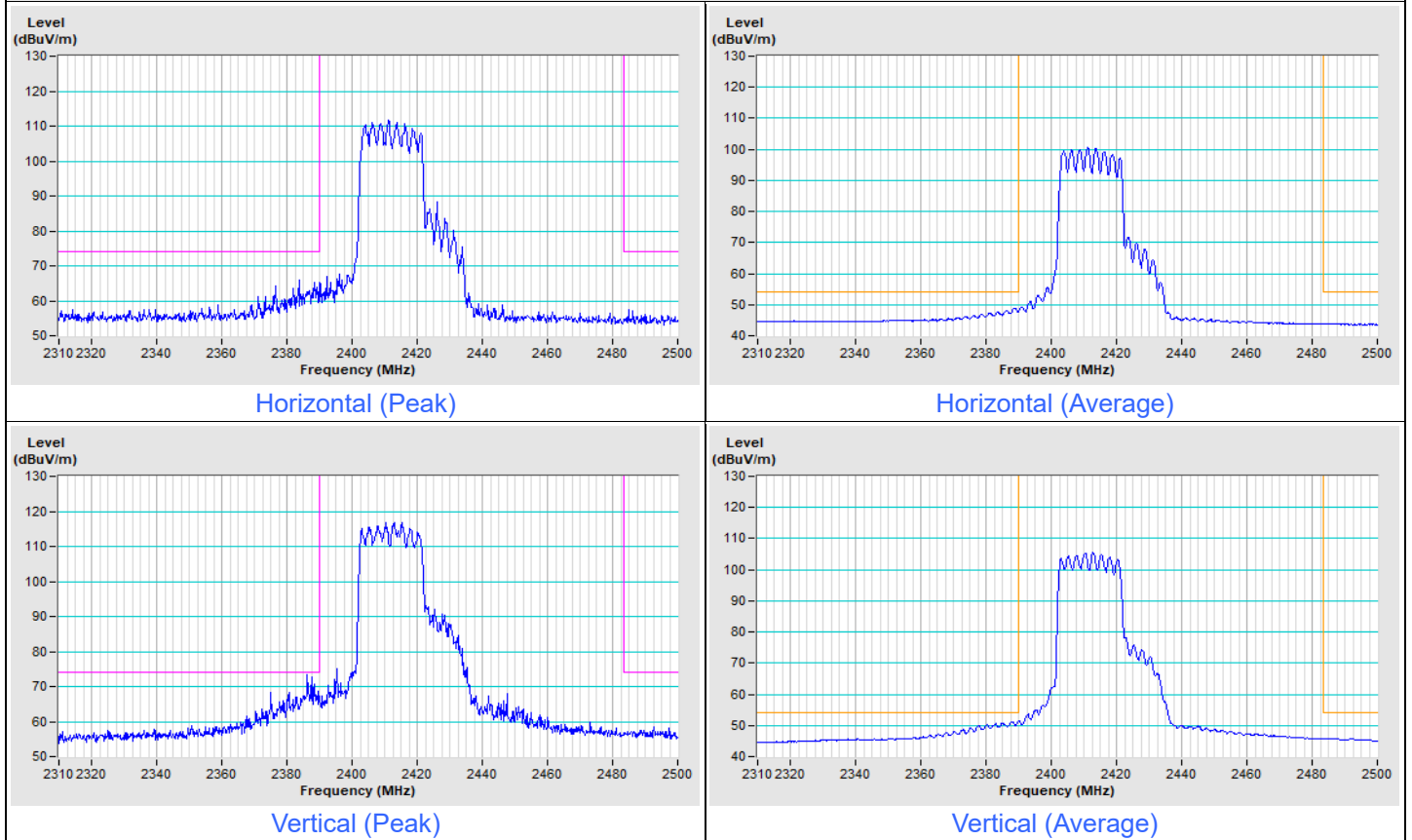
Vertical (Peak)

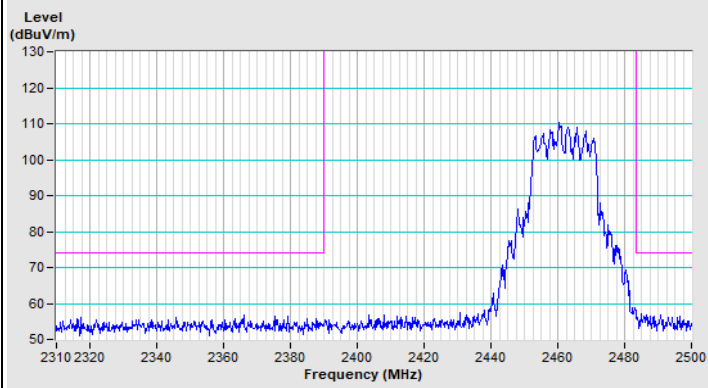


Vertical (Average)

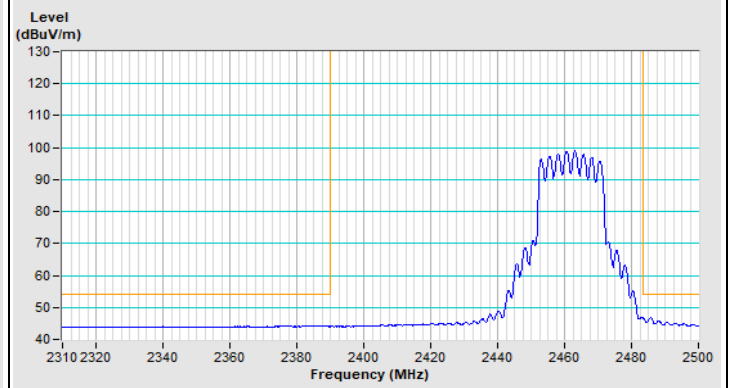
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE20) Channel 1

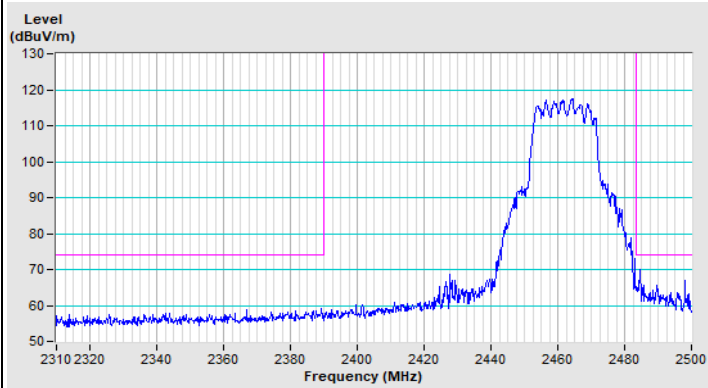


802.11ax (HE20) Channel 11

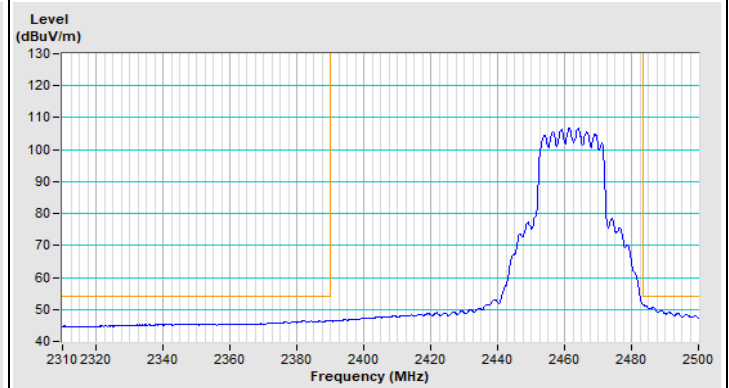
Horizontal (Peak)



Horizontal (Average)



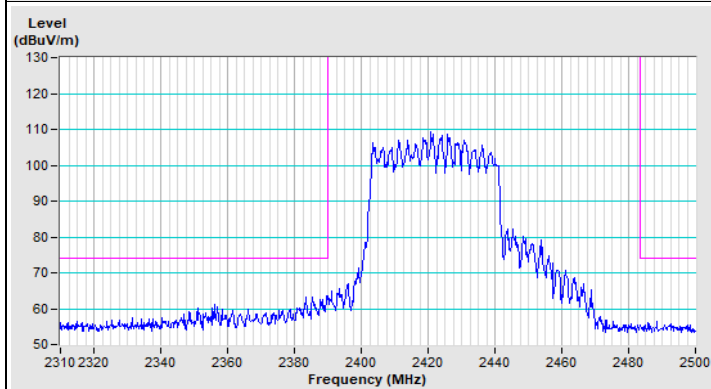
Vertical (Peak)



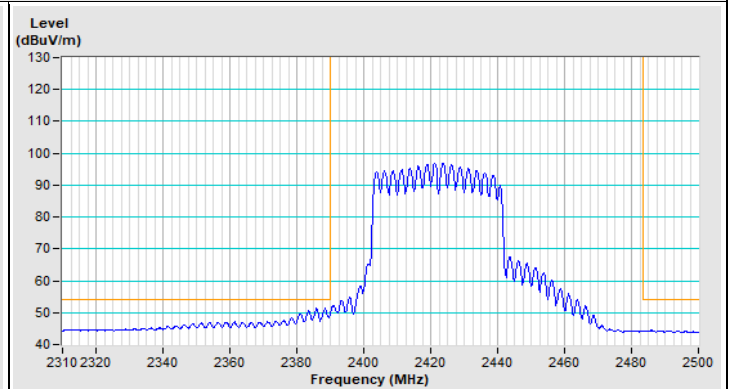
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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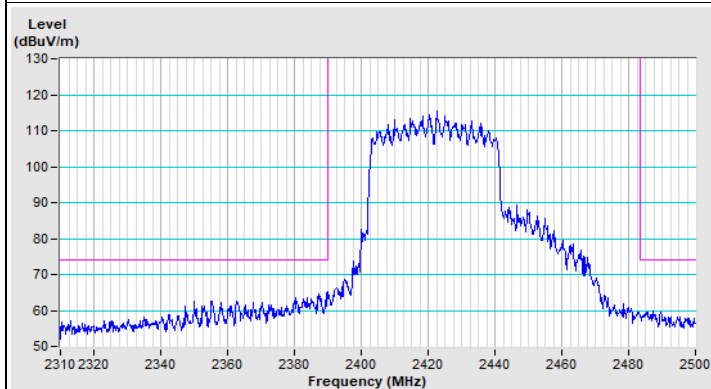
802.11ax (HE40) Channel 3



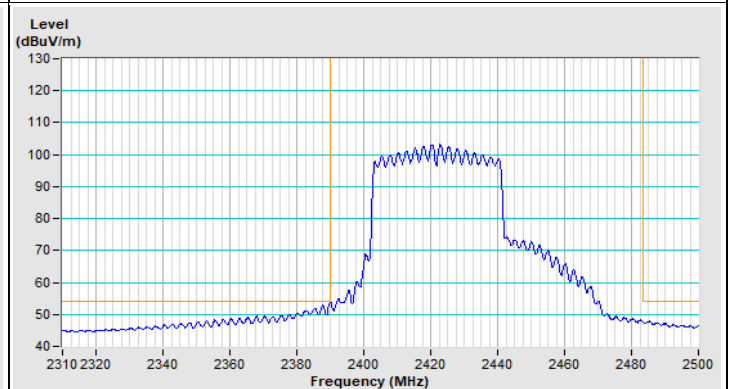
Horizontal (Peak)



Horizontal (Average)

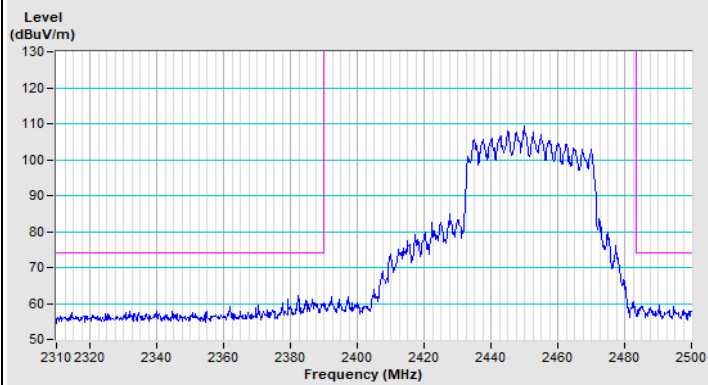


Vertical (Peak)

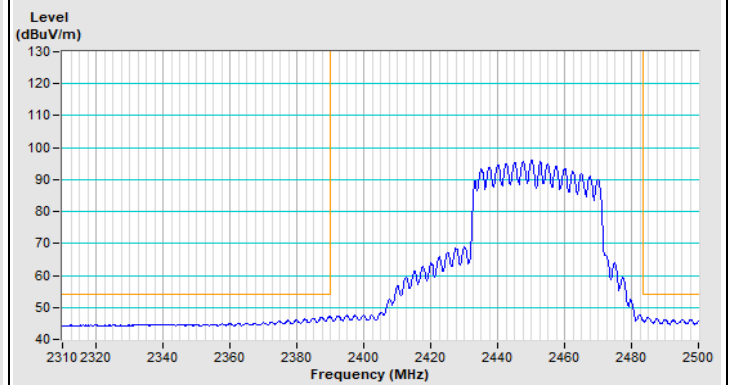


Vertical (Average)

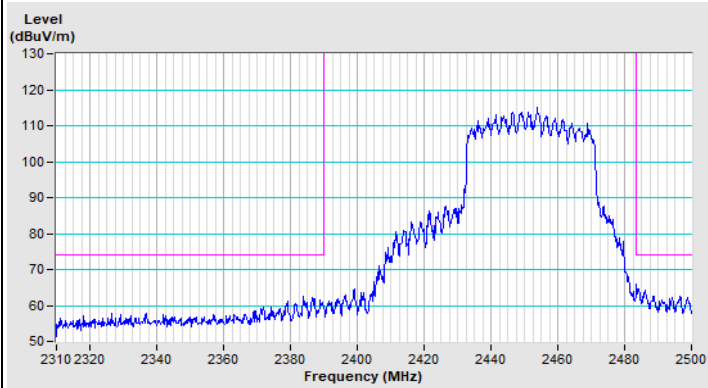
802.11ax (HE40) Channel 9



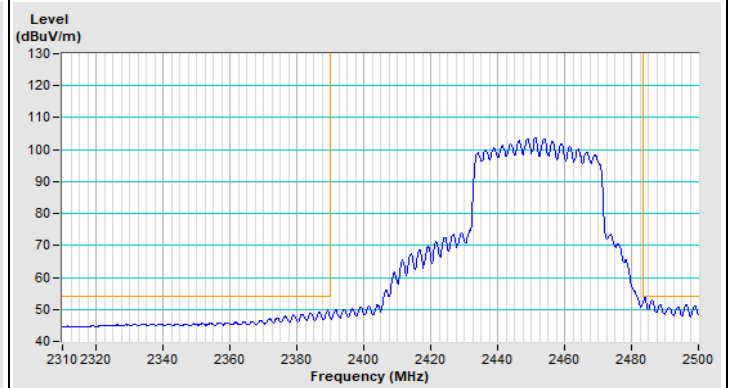
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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

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

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