

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBHVI-WTW-P23120316

FCC ID: N6C-IM100

Product: Embedded wireless module

Brand: Silex Technology

Model No.: IM-100

Received Date: 2023/12/14

Test Date: 2024/1/12 ~ 2024/2/20

Issued Date: 2024/5/7

Applicant: Silex Technology, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 723255 / TW2022

Designation Number:

Approved by:  , Date: 2024/5/7

May Chen / Manager

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Prepared by : Vito Lung / Specialis



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Release Control Record

Issue No.	Description	Date Issued
RFBHVI-WTW-P23120316	Original release.	2024/5/7

1 Certificate

Product: Embedded wireless module

Brand: Silex Technology

Test Model: IM-100

Sample Status: Engineering sample

Applicant: Silex Technology, Inc.

Test Date: 2024/1/12 ~ 2024/2/20

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

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 -15.42 dB at 0.56797 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -9.4 dB at 520.02 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -3.0 dB at 2390.00, 2483.50 and 7311.00 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:

Parameter	Specification	Uncertainty (±)
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	1050.00 Hz
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.6 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	Embedded wireless module
Brand	Silex Technology
Test Model	IM-100
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: up to 11 Mbps 802.11g: up to 54 Mbps 802.11n: up to 72.2 Mbps 802.11ax: up to 143.4 Mbps
Operating Frequency	2.412 GHz ~ 2.462 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), 802.11ax (HE20): 11
Resource Unit (RU)	Single RU: 26-tone, 52-tone, 106-tone
Output Power	156.675 mW (21.95 dBm)

Note:

1. There are Bluetooth and WLAN (2.4 GHz & 5 GHz) technology used for the EUT.
2. The product's WLAN 2.4G and WLAN 5G will not operate simultaneously.
3. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (5 GHz)	Bluetooth

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

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Molex	146153	3.18	2.4~2.4835	Dipole	ipex(MHF)	50
			3.18	5.15~5.25			
			2.98	5.25~5.35			
			4.28	5.47~5.725			
			3.78	5.725~5.85			
2	Unictron	AA258	2.67	2.4~2.4835	Dipole	ipex(MHF)	50
			3.22	5.15~5.25			
			3.91	5.25~5.35			
			2.77	5.47~5.725			
			3.92	5.725~5.85			
3	Silex	SXANTFDB24A55-03	2.75	2.4~2.4835	Folded inverted-L	None (On-board)	NA
			1.82	5.15~5.25			
			1.82	5.25~5.35			
			2.82	5.47~5.725			
			2.99	5.725~5.85			

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

2. The EUT incorporates a SISO function:

2.4 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11b	1Tx	1Rx
802.11g	1Tx	1Rx
802.11n (HT20)	1Tx	1Rx
802.11ax (HE20)	1Tx	1Rx
802.11ax (RU26/52/106)	1Tx	1Rx

Note:

The modulation and bandwidth are similar for 802.11n mode for 20 MHz, and 802.11ax mode for 20 MHz therefore the manufacturer will control the power for 802.11n mode is same as the 802.11ax mode or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

11 channels are provided for 802.11b, 802.11g, 802.11n (HT20), 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		

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. 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).
Worst Case:	1. X-axis/ Y-axis/ Z-axis Worst Condition: Z-axis

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

Test Item	EUT Configure Mode	Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
RF Output Power / Power Spectral Density	-	802.11b	1, 6, 11	BPSK	1Mb/s	NA
		802.11g	1, 6, 11	BPSK	6Mb/s	NA
		802.11n (HT20)	1, 6, 11	BPSK	MCS0	NA
		802.11ax (HE20)	1, 6, 11	BPSK	MCS0	NA
		802.11ax (HE20) 26-tone RU	1, 6, 11	BPSK	MCS0	0, 0, 8
		802.11ax (HE20) 52-tone RU	1, 6, 11	BPSK	MCS0	37, 37, 40
		802.11ax (HE20) 106-tone RU	1, 6, 11	BPSK	MCS0	53, 53, 54
6 dB Bandwidth / Conducted Out of Band Emissions	-	802.11b	1, 6, 11	BPSK	1Mb/s	NA
		802.11g	1, 6, 11	BPSK	6Mb/s	NA
		802.11ax (HE20)	1, 6, 11	BPSK	MCS0	NA
		802.11ax (HE20) 26-tone RU	1, 6, 11	BPSK	MCS0	0, 0, 8
		802.11ax (HE20) 52-tone RU	1, 6, 11	BPSK	MCS0	37, 37, 40
		802.11ax (HE20) 106-tone RU	1, 6, 11	BPSK	MCS0	53, 53, 54
AC Power Conducted Emissions	A	802.11b	1	DBPSK	1Mb/s	NA
Unwanted Emissions below 1 GHz	A, B	802.11b	1	DBPSK	1Mb/s	NA
Unwanted Emissions above 1 GHz	A, B	802.11b	1, 6, 11	BPSK	1Mb/s	NA
		802.11g	1, 6, 11	BPSK	6Mb/s	NA
		802.11ax (HE20)	1, 6, 11	BPSK	MCS0	NA
		802.11ax (HE20) 26-tone RU	1, 6, 11	BPSK	MCS0	0, 0, 8
		802.11ax (HE20) 52-tone RU	1, 6, 11	BPSK	MCS0	37, 37, 40
		802.11ax (HE20) 106-tone RU	1, 6, 11	BPSK	MCS0	53, 53, 54
EUT Configure Mode:	A	external antenna(146153)				
	B	on board antenna				

3.5 Duty Cycle of Test Signal

802.11b: Duty cycle = 8.624 ms / 8.632 ms x 100% = 99.9%

802.11g: Duty cycle = 1.433 ms / 1.447 ms x 100% = 99.0%

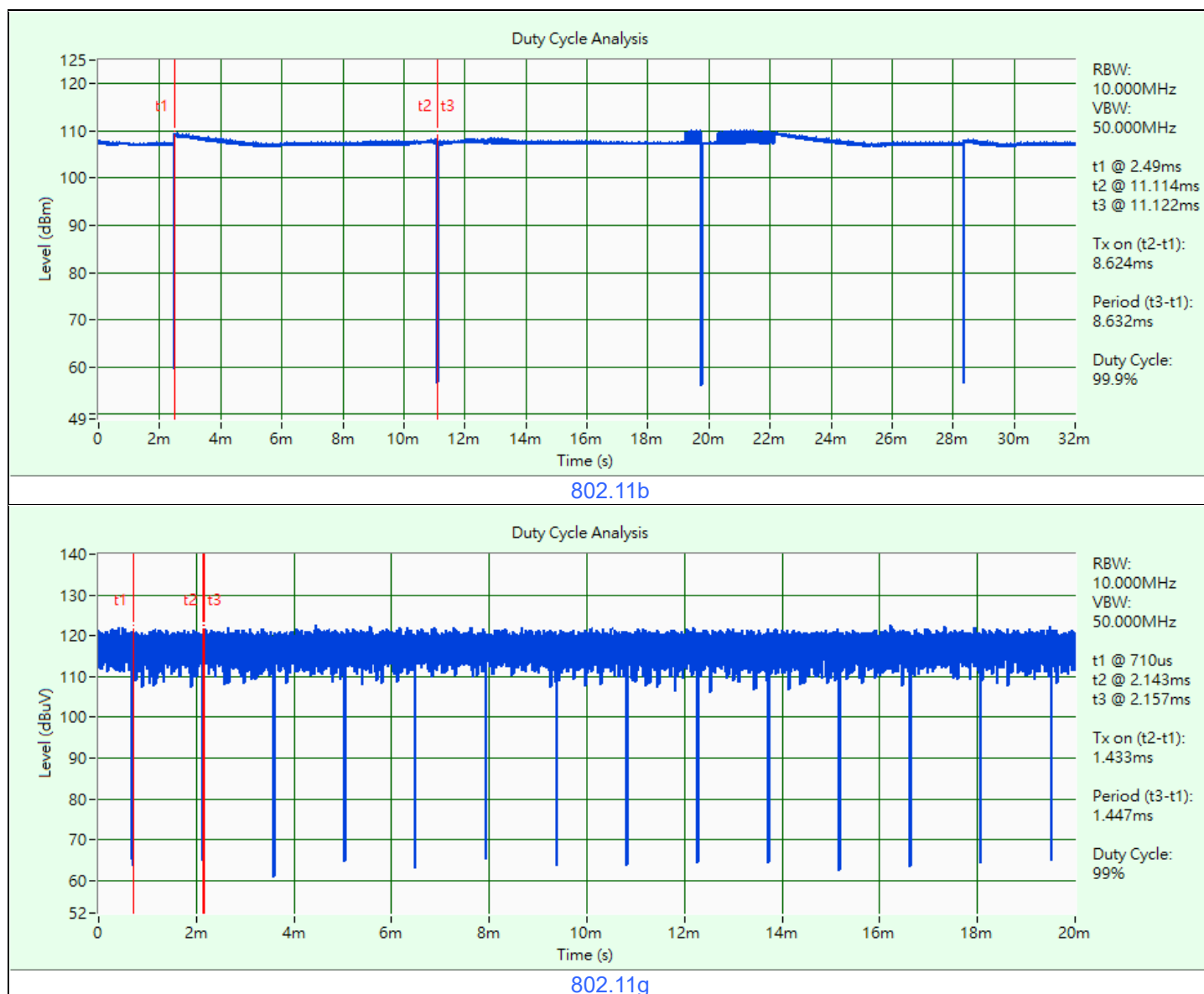
802.11n (HT20): Duty cycle = 1.341 ms / 1.355 ms x 100% = 99.0%

802.11ax (HE20): Duty cycle = 1.045 ms / 1.06 ms x 100% = 98.6%

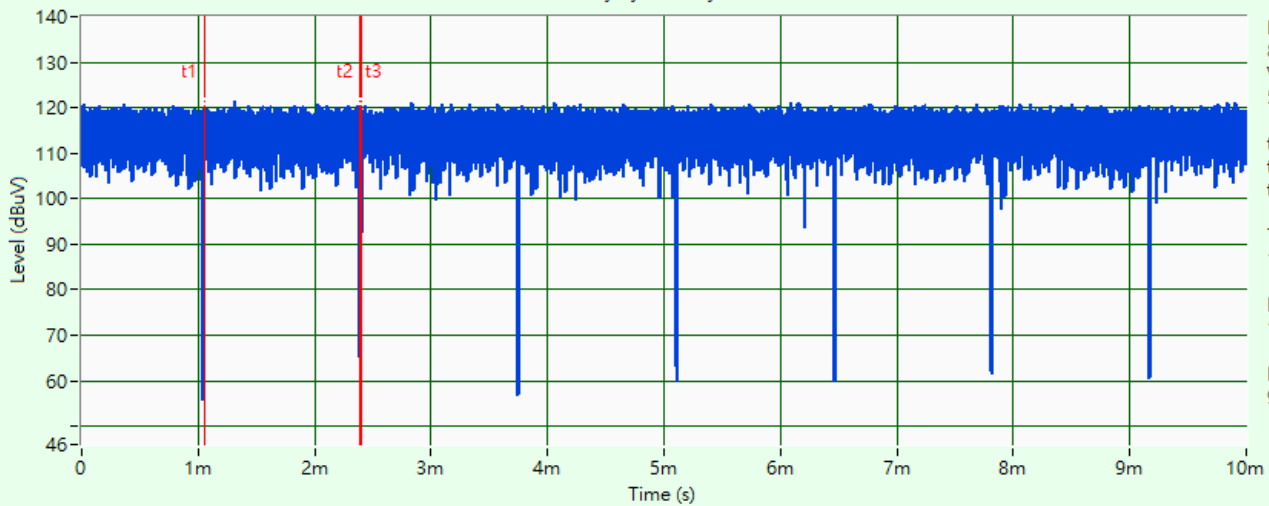
802.11ax (HE20) 26-tone RU: Duty cycle = 96.745 ms / 100 ms x 100% = 96.7%, duty factor = $10 * \log(1/\text{Duty cycle}) = 0.14 \text{ dB}$

802.11ax (HE20) 52-tone RU: Duty cycle = 96.685 ms / 100 ms x 100% = 96.7%, duty factor = $10 * \log(1/\text{Duty cycle}) = 0.15 \text{ dB}$

802.11ax (HE20) 106-tone RU: Duty cycle = 96.795 ms / 100 ms x 100% = 96.8%, duty factor = $10 * \log(1/\text{Duty cycle}) = 0.14 \text{ dB}$

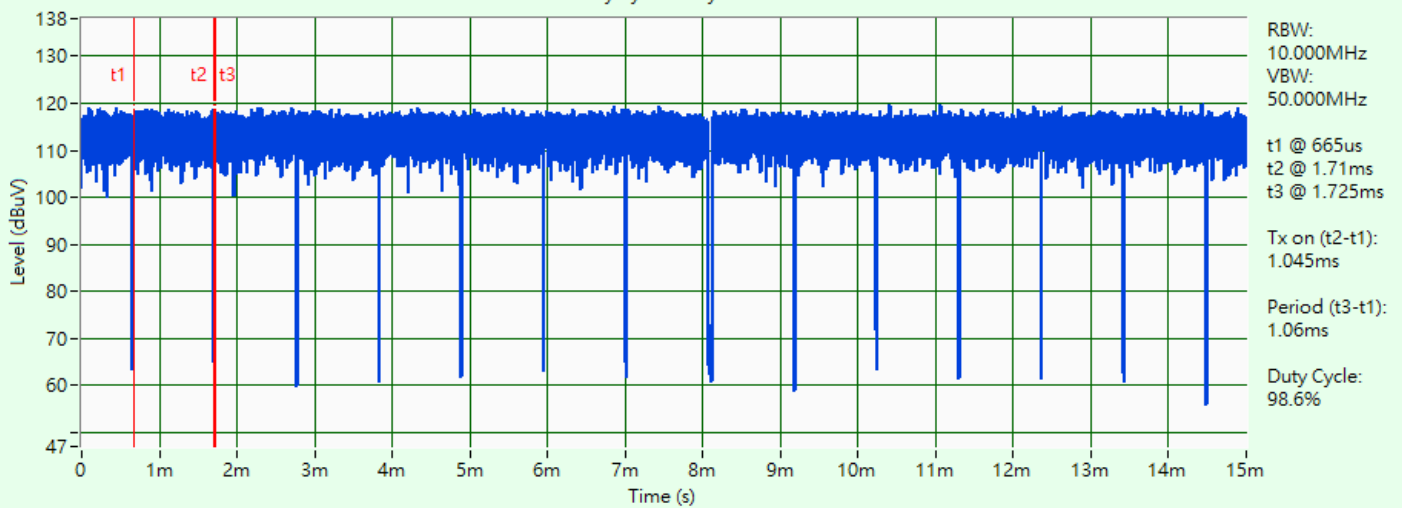


Duty Cycle Analysis



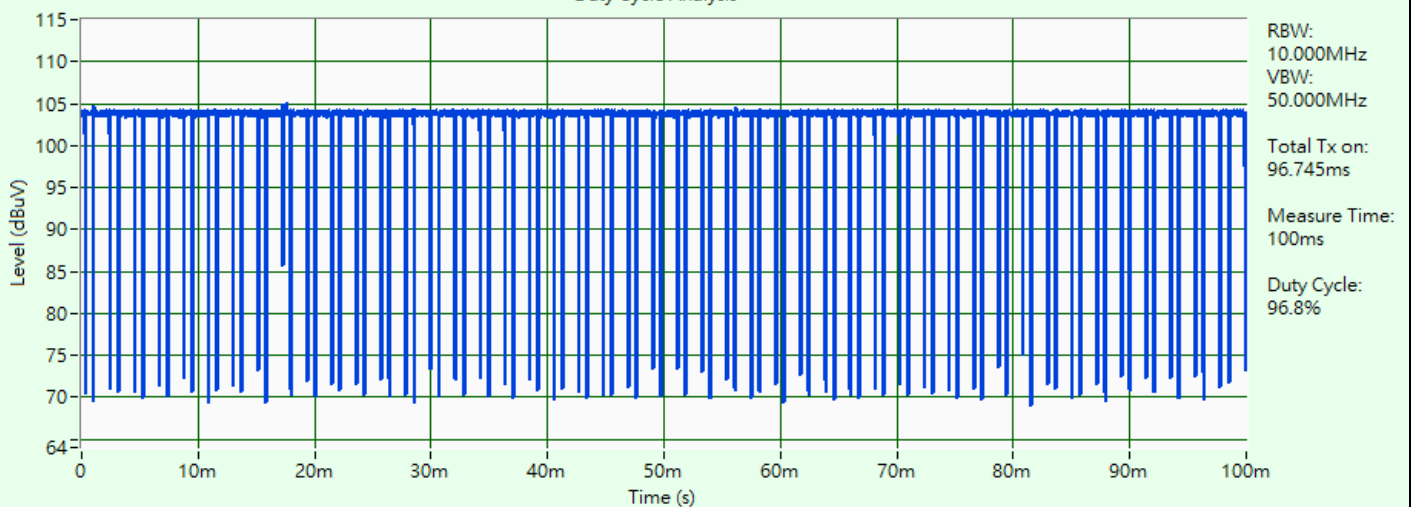
802.11n (HT20)

Duty Cycle Analysis



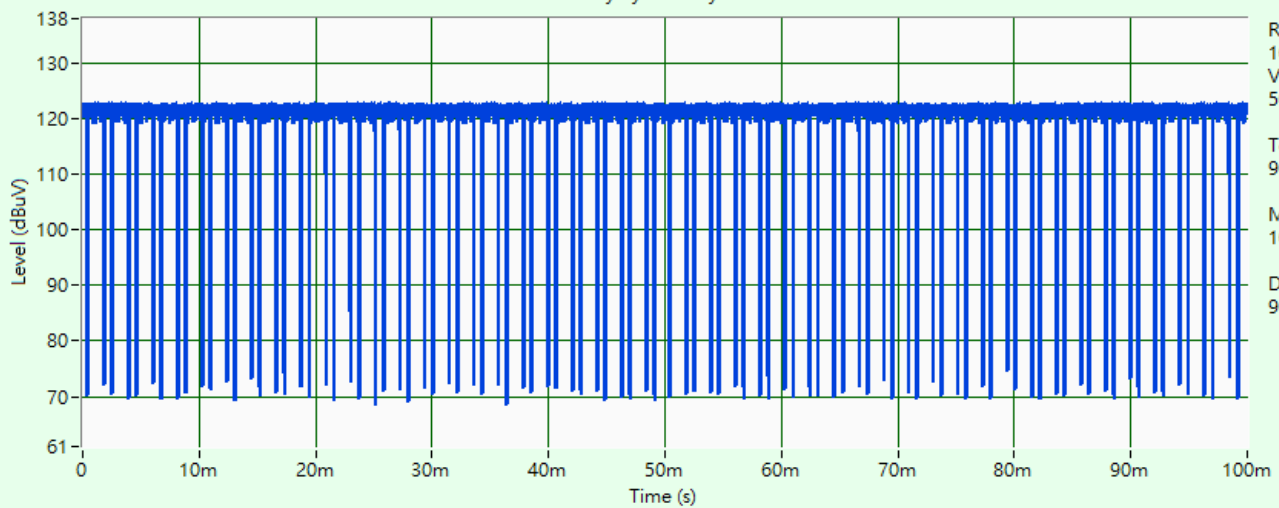
802.11ax (HE20)

Duty Cycle Analysis



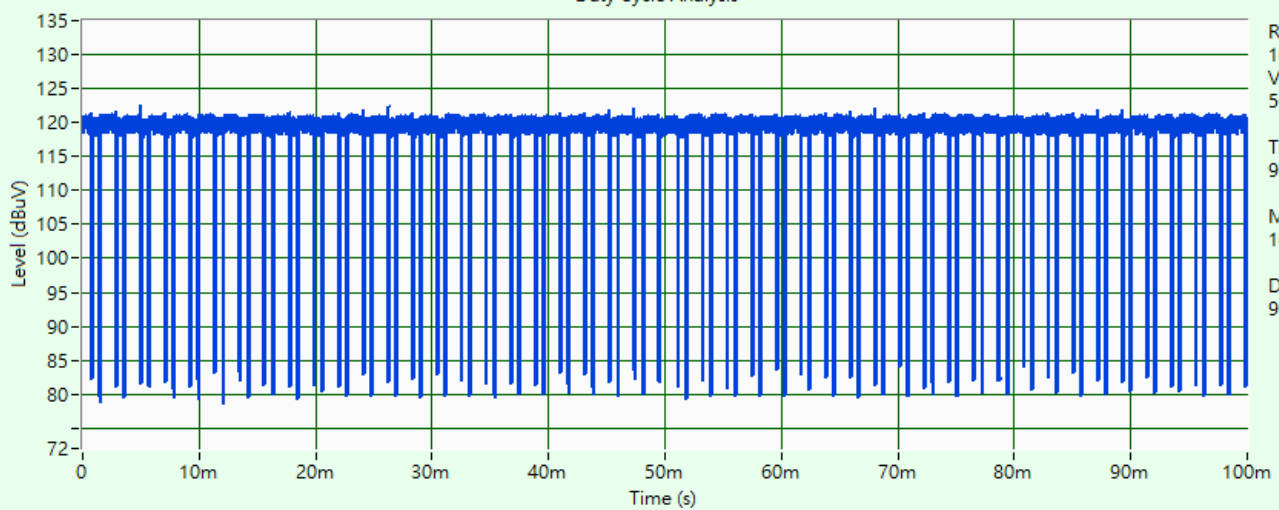
802.11ax (HE20) 26-tone RU

Duty Cycle Analysis



802.11ax (HE20) 52-tone RU

Duty Cycle Analysis



802.11ax (HE20) 106-tone RU

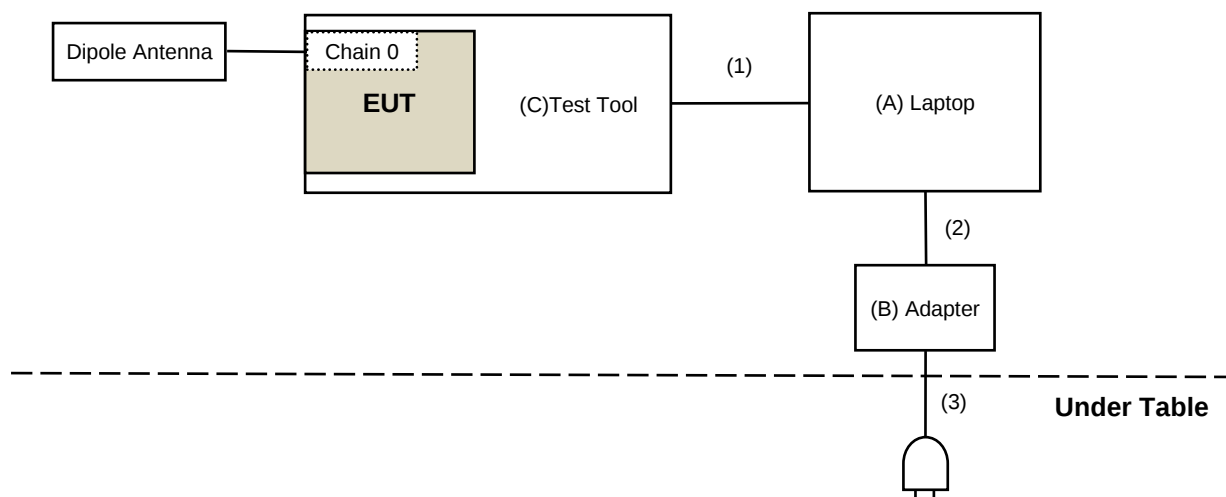
3.6 Test Program Used and Operation Descriptions

Controlling software (DutApiSisoApApp_RW610.exe 1.0.0.12) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

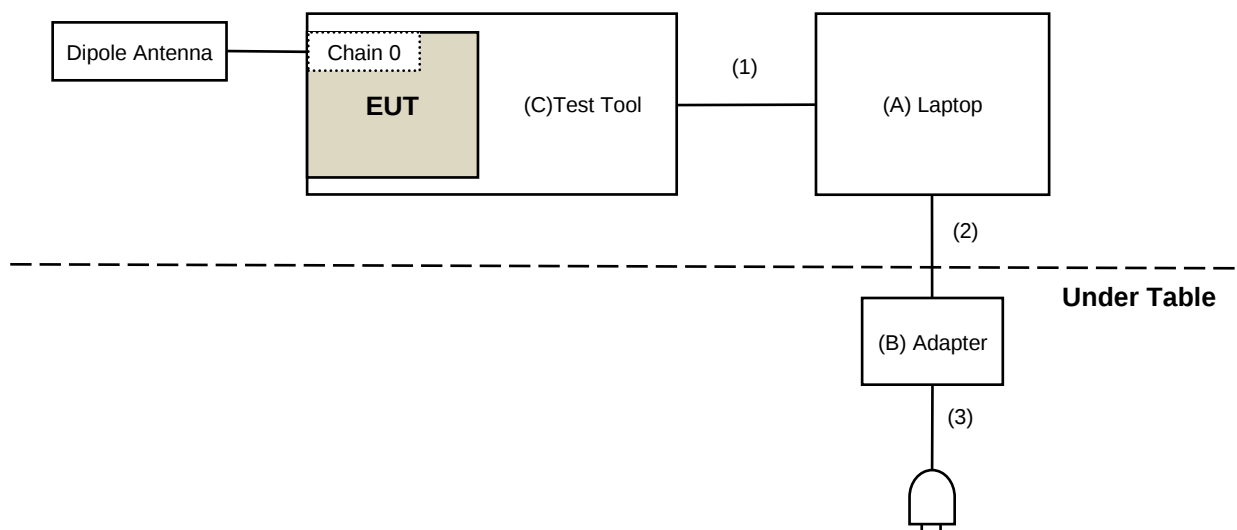
For AC Power Conducted Emission Test

Mode A

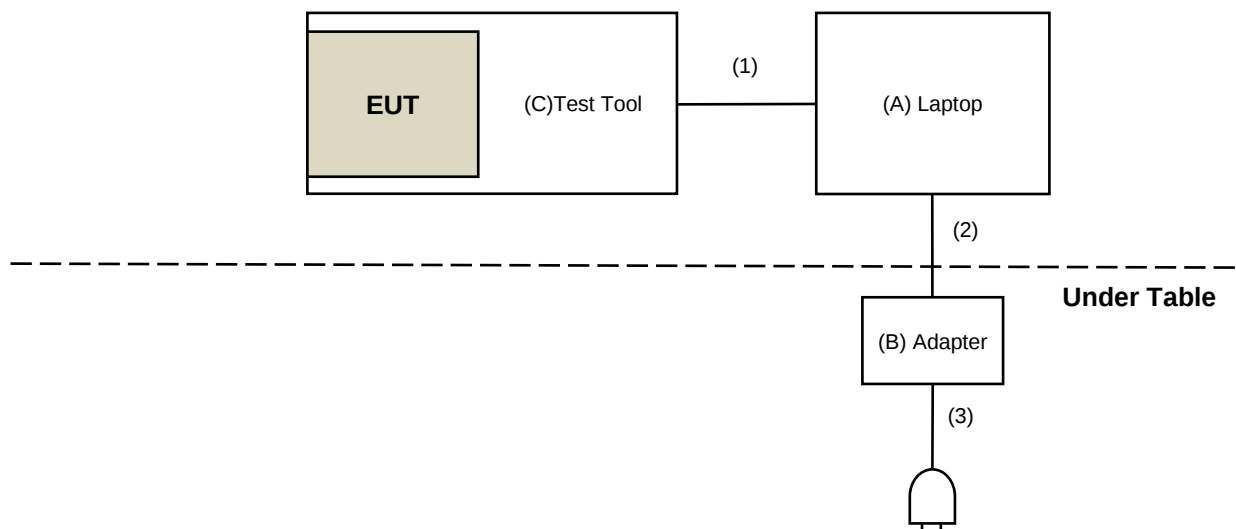


For Unwanted Emissions test

Mode A



Mode B



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	20U5S01X00 L14	PF-1ANPYA	N/A	Provided by Lab
B	Adapter	Lenovo	ADLX45YLC3D	N/A	N/A	Provided by Lab
C	Test Tool	Silex Technology	N/A	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB Cable	1	1	Yes	0	Supplied by applicant
2	DC Cable	1	1.8	No	0	Provided by Lab
3	AC Cable	1	1	No	0	Provided by Lab
4	Data Cable	1	0.35	No	0	Supplied by applicant

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: 2024/2/16 ~ 2024/2/17

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 V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2024/2/16 ~ 2024/2/17

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 Telegartner	50 ohm	3	2023/10/20	2024/10/19
EMI Test Receiver R&S	ESCS 30	847124/029	2023/10/18	2024/10/17
Fixed Attenuator STI	STI02-2200-10	005	2023/7/1	2024/6/30
LISN R&S	ESH3-Z5	835239/001	2023/4/6	2024/4/5
		848773/004	2023/10/13	2024/10/12
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2023/7/1	2024/6/30
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2024/1/27

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	2023/10/13	2024/10/12
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 2024/2/17	2024/9/6 2025/2/16
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 2024/2/17	2024/2/19 2025/2/16
	EMC001340	980142	2023/5/8 2024/2/19	2024/5/7 2025/2/18
RF Coaxial Cable JYEBAO	5D-FB	LOOPCAB-001	2023/12/12 2024/2/19	2024/12/11 2025/2/18
		LOOPCAB-002	2023/12/12 2024/2/19	2024/12/11 2025/2/18
RF Coaxial Cable PEWC	8D	001	2023/2/17 2024/2/16	2024/2/16 2025/2/15
		966-3-2	2023/2/17 2024/2/16	2024/2/16 2025/2/15
		966-3-3	2023/2/17 2024/2/16	2024/2/16 2025/2/15
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: 2024/1/25 ~ 2024/2/20

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	2023/11/12	2024/11/11
	BBHA 9170	9170-739	2023/11/12	2024/11/11
MXE EMI Receiver Agilent	N9038A	MY50010156	2023/6/13	2024/6/12
Preamplifier EMCI	EMC12630SE	980384	2023/8/9 2024/1/29	2024/8/8 2025/1/28
	EMC184045SE	980387	2023/8/9	2024/8/8
PXA Signal Analyzer Keysight	N9030B	MY57142938	2023/4/6	2024/4/5
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2023/8/9 2024/1/29	2024/8/8 2025/1/28
	EMC102-KM-KM-4000	200214	2023/2/20 2024/1/29	2024/2/19 2025/1/28
	EMC104-SM-SM-1500	180504	2023/3/27 2024/1/29	2024/3/26 2025/1/28
	EMC104-SM-SM-2000	180601	2023/6/2 2024/1/29	2024/6/1 2025/1/28
	EMC104-SM-SM-6000	210201	2023/5/8 2024/1/29	2024/5/7 2025/1/28
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: 2024/1/12 ~ 2024/2/16

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)

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

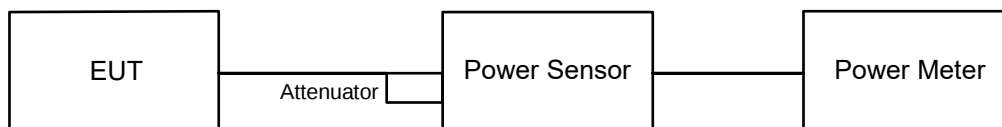
Notes:

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:

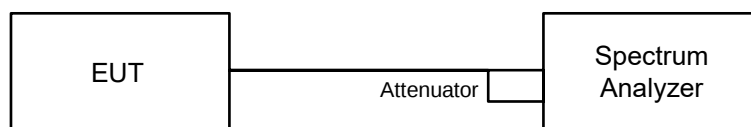
A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

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

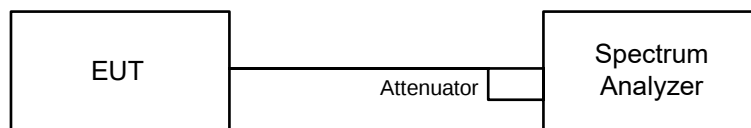


6.2.2 Test Procedure

- 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

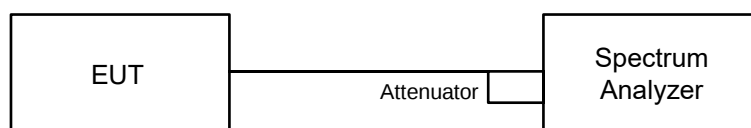


6.3.2 Test Procedure

- 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

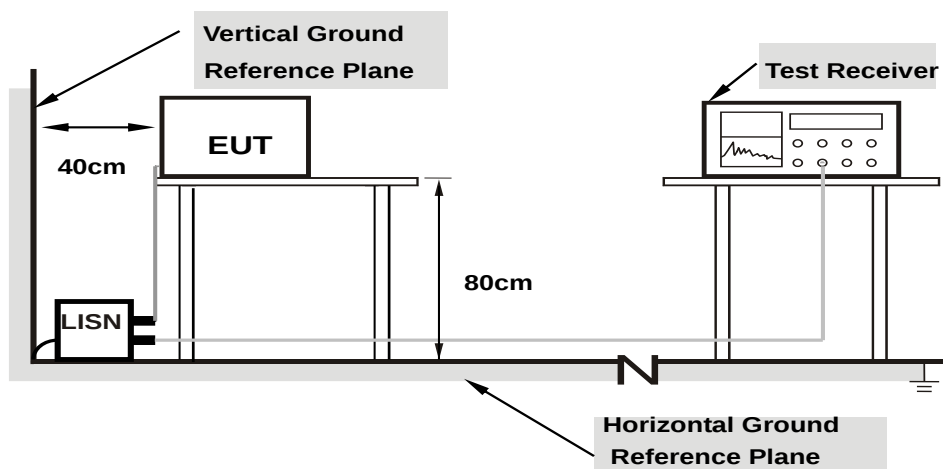
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

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

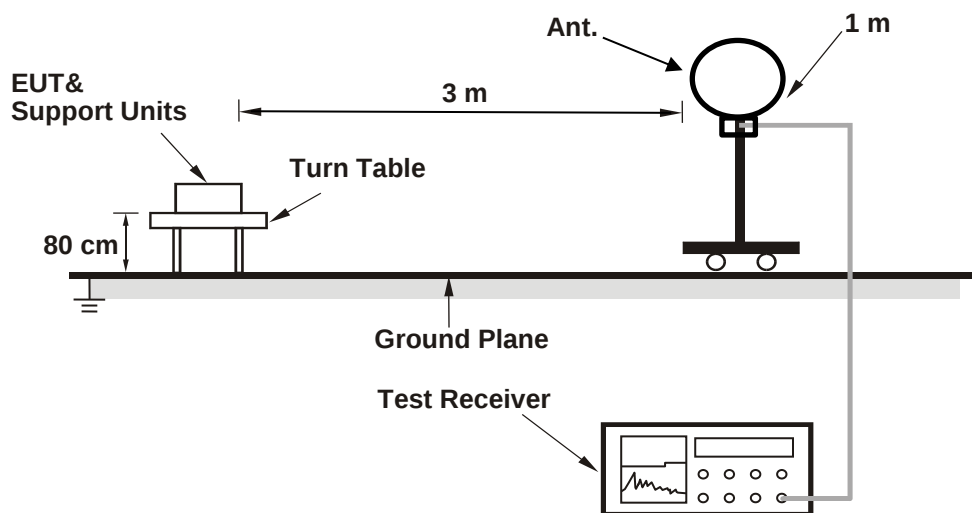
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The 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.

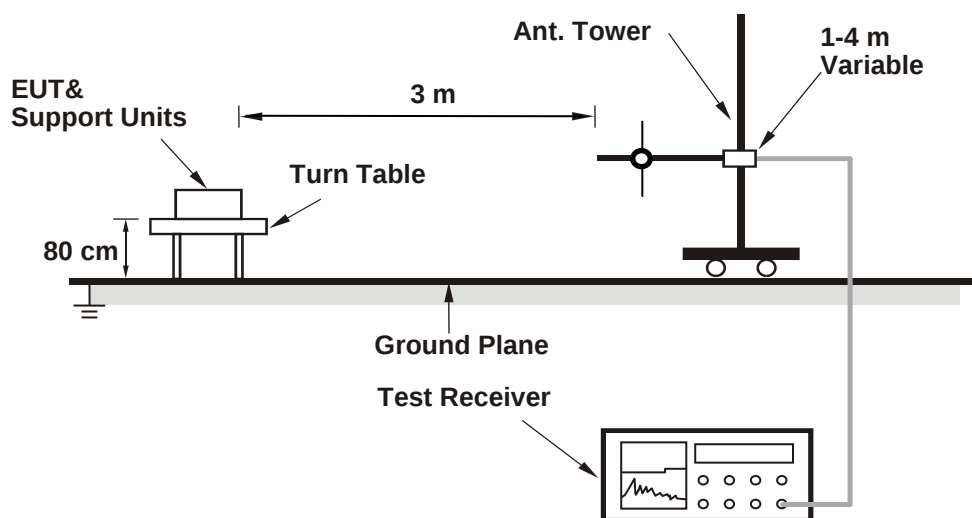
6.6 Unwanted Emissions below 1 GHz

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

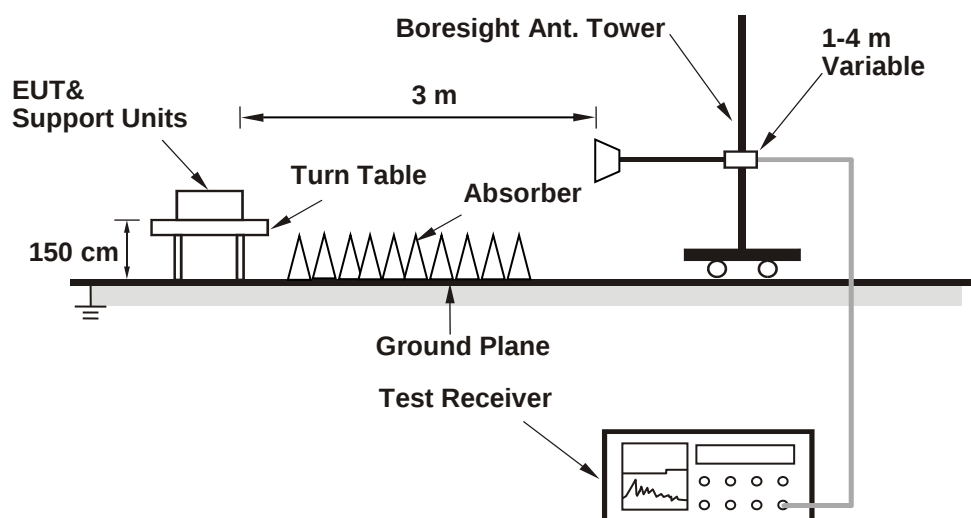
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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:	3.3 Vdc	Environmental Conditions:	25°C, 72% RH	Tested By:	Louis Yang
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For Peak Power

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	146.555	21.66	30	Pass
6	2437	141.906	21.52	30	Pass
11	2462	107.399	20.31	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	67.608	18.30	30	Pass
6	2437	156.675	21.95	30	Pass
11	2462	69.984	18.45	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	71.121	18.52	30	Pass
6	2437	123.595	20.92	30	Pass
11	2462	71.614	18.55	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	72.611	18.61	30	Pass
6	2437	127.644	21.06	30	Pass
11	2462	73.282	18.65	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	65.313	18.15	30	Pass
6	2437	69.823	18.44	30	Pass
11	2462	71.614	18.55	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	52.36	17.19	30	Pass
6	2437	53.456	17.28	30	Pass
11	2462	60.954	17.85	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	54.075	17.33	30	Pass
6	2437	56.105	17.49	30	Pass
11	2462	58.21	17.65	30	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the output power limit shall not be reduced.

For Average Power

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	74.302	18.71
6	2437	72.611	18.61
11	2462	51.88	17.15

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	22.439	13.51
6	2437	64.863	18.12
11	2462	23.442	13.70

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	23.388	13.69
6	2437	51.642	17.13
11	2462	23.121	13.64

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	23.442	13.70
6	2437	52	17.16
11	2462	23.878	13.78

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	11.194	10.49
6	2437	11.143	10.47
11	2462	10.864	10.36

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	11.015	10.42
6	2437	10.839	10.35
11	2462	11.169	10.48

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	10.914	10.38
6	2437	11.194	10.49
11	2462	11.143	10.47

7.2 Power Spectral Density

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 72% RH	Tested By:	Louis Yang
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802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-0.94	8	Pass
6	2437	0.02	8	Pass
11	2462	-4.06	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-4.38	8	Pass
6	2437	-2.27	8	Pass
11	2462	-8.39	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-6.27	8	Pass
6	2437	-2.73	8	Pass
11	2462	-9.89	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-5.14	8	Pass
6	2437	-2.60	8	Pass
11	2462	-10.09	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-7.69	8	Pass
6	2437	-6.21	8	Pass
11	2462	-7.45	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-11.30	8	Pass
6	2437	-8.95	8	Pass
11	2462	-10.18	8	Pass

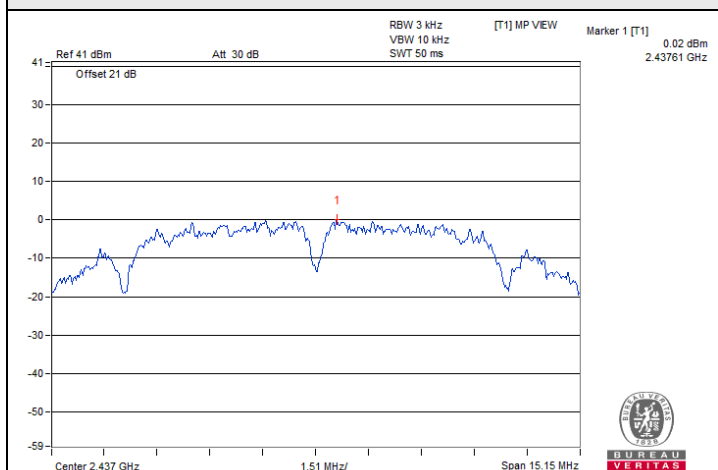
Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 106-tone RU

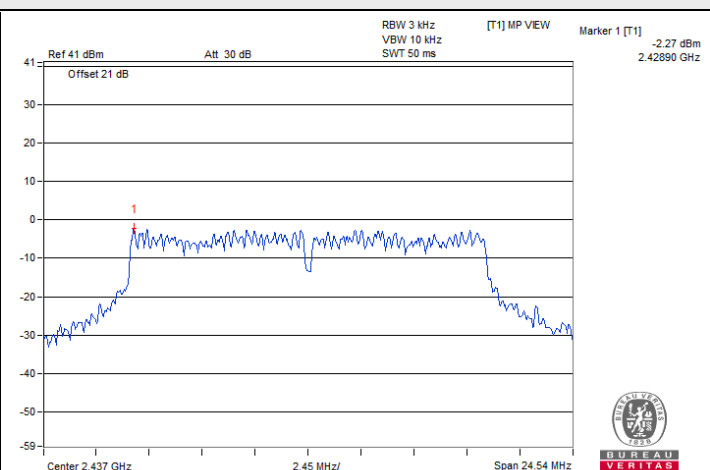
Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-12.43	8	Pass
6	2437	-11.12	8	Pass
11	2462	-12.59	8	Pass

Note: The antenna gain is 3.18 dBi < 6 dBi, so the power density limit shall not be reduced.

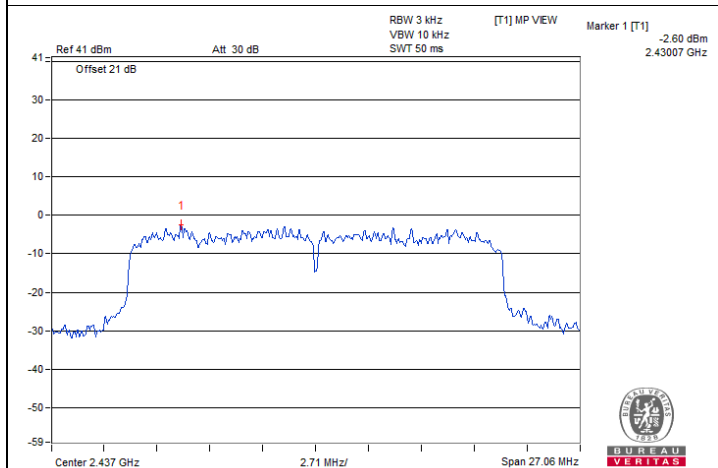
Spectrum Plot of Maximum Value



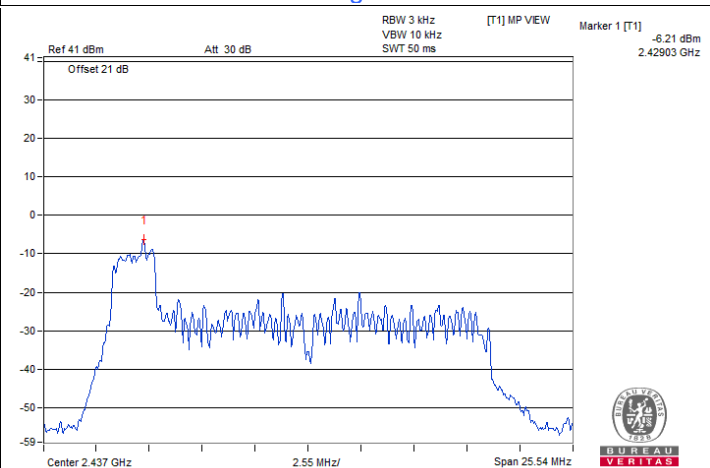
802.11b : CH 6



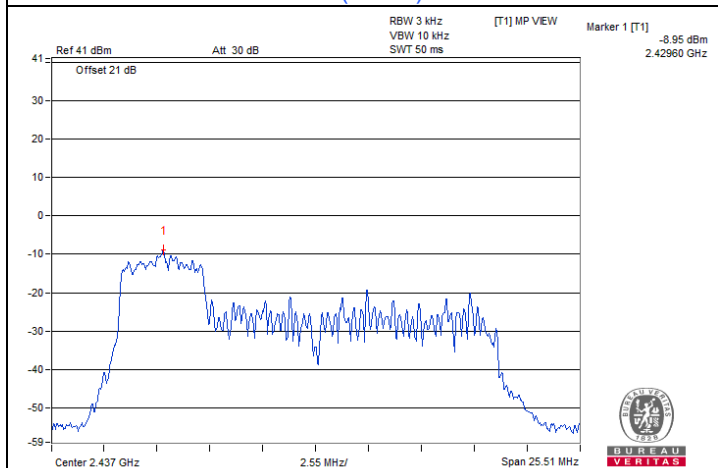
802.11g : CH 6



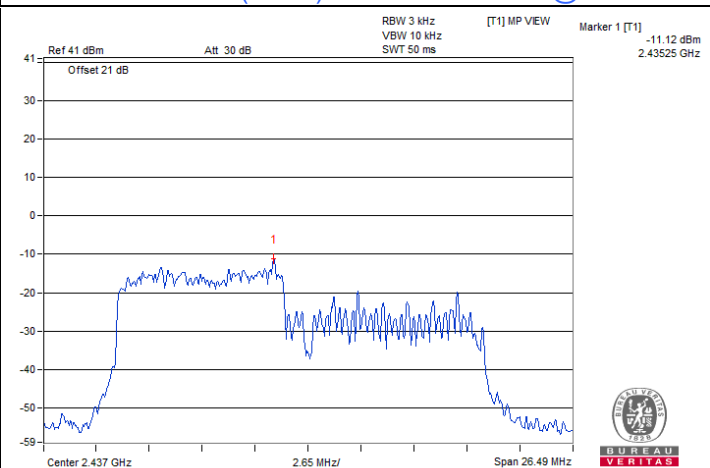
802.11ax (HE20) : CH 6



802.11ax (HE20) 26-tone RU : CH 6@0



802.11ax (HE20) 52-tone RU : CH 6@37



802.11ax (HE20) 106-tone RU : CH 6@53

7.3 6 dB Bandwidth

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 72% RH	Tested By:	Louis Yang
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802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	10.09	0.5	Pass
6	2437	10.1	0.5	Pass
11	2462	10.11	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	16.37	0.5	Pass
6	2437	16.36	0.5	Pass
11	2462	16.35	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	18.26	0.5	Pass
6	2437	18.04	0.5	Pass
11	2462	18.17	0.5	Pass

802.11ax (HE20) 26-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.02	0.5	Pass
6	2437	17.03	0.5	Pass
11	2462	17	0.5	Pass

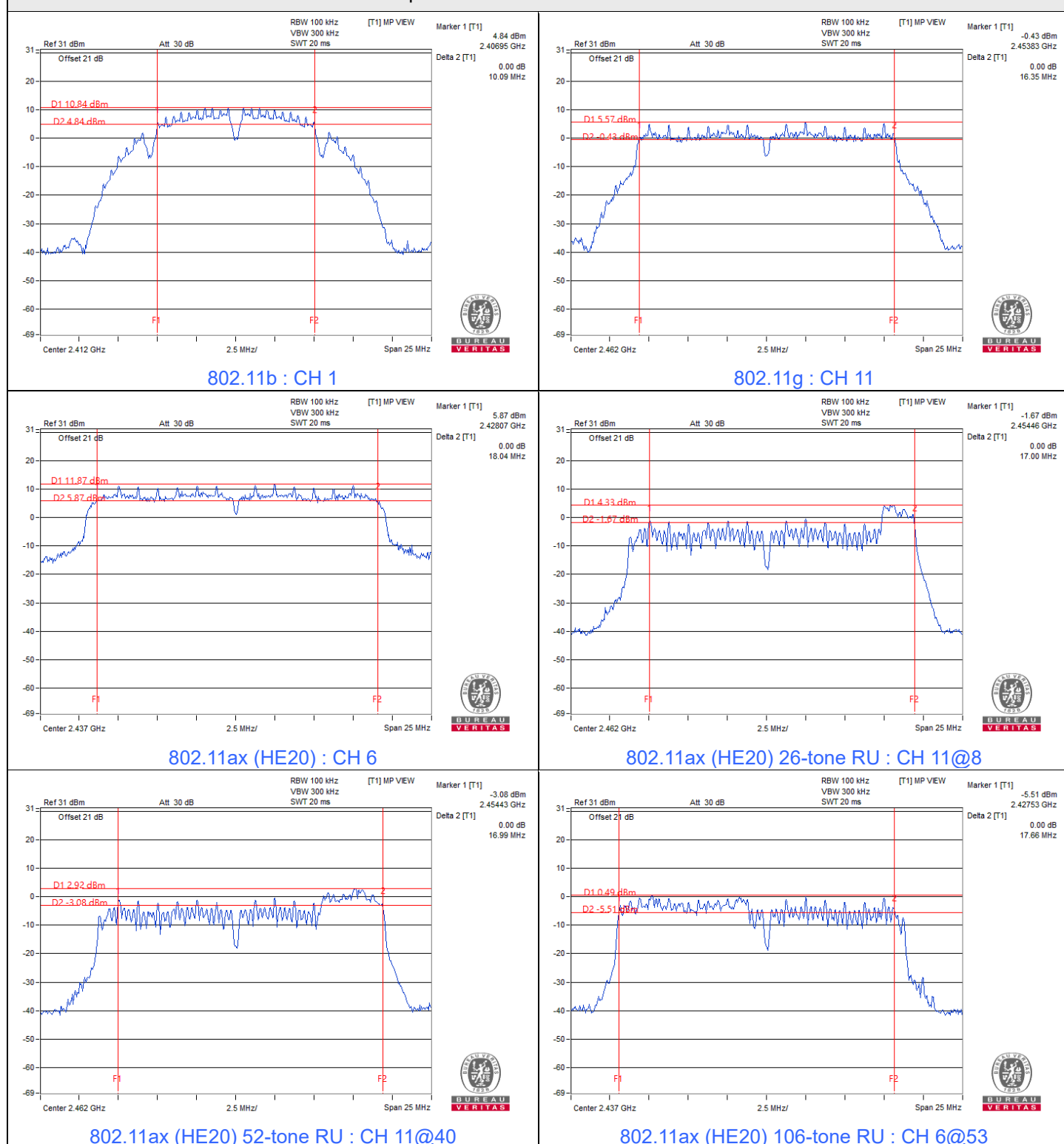
802.11ax (HE20) 52-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.02	0.5	Pass
6	2437	17.01	0.5	Pass
11	2462	16.99	0.5	Pass

802.11ax (HE20) 106-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.67	0.5	Pass
6	2437	17.66	0.5	Pass
11	2462	17.74	0.5	Pass

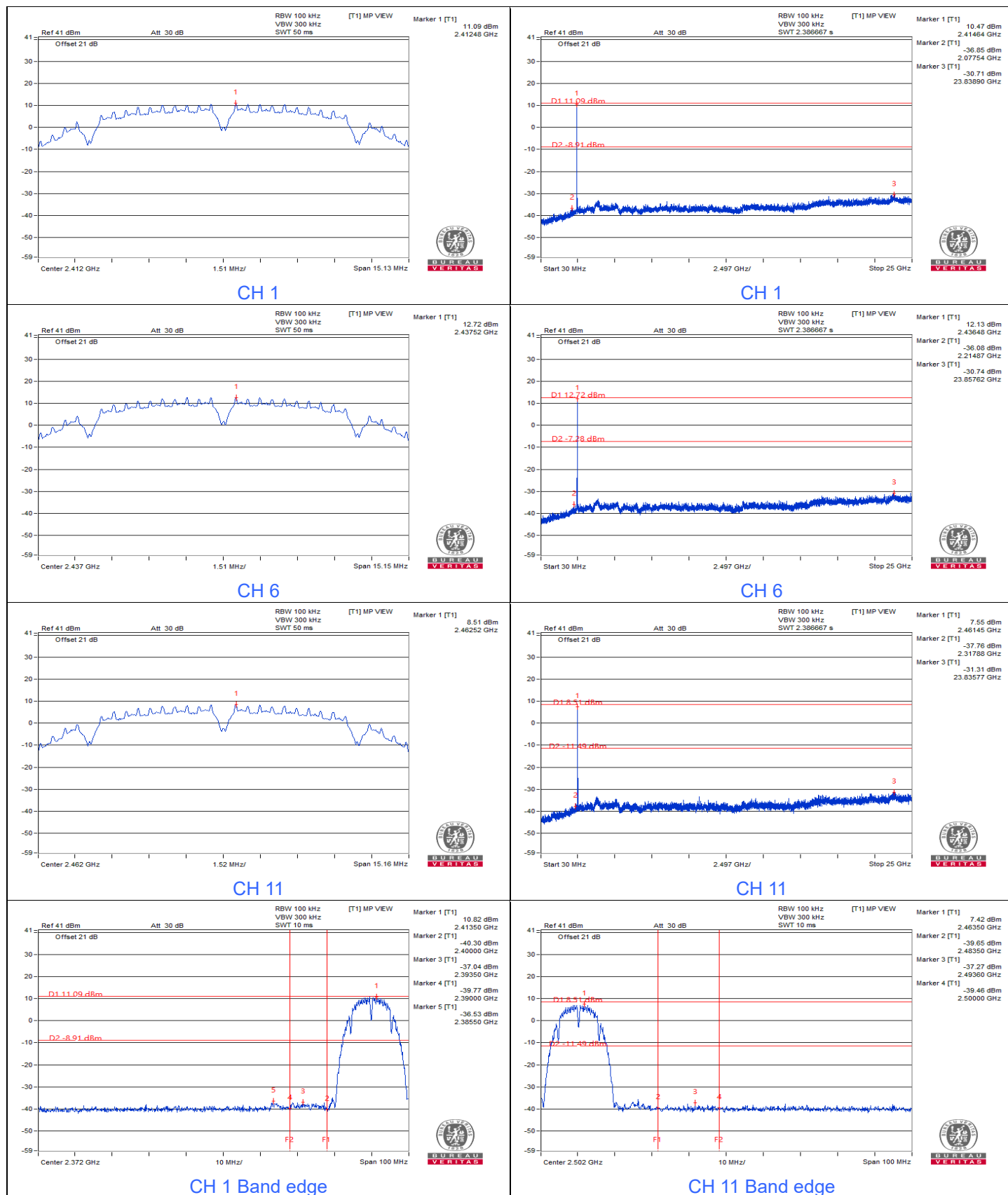
Spectrum Plot of Minimum Value



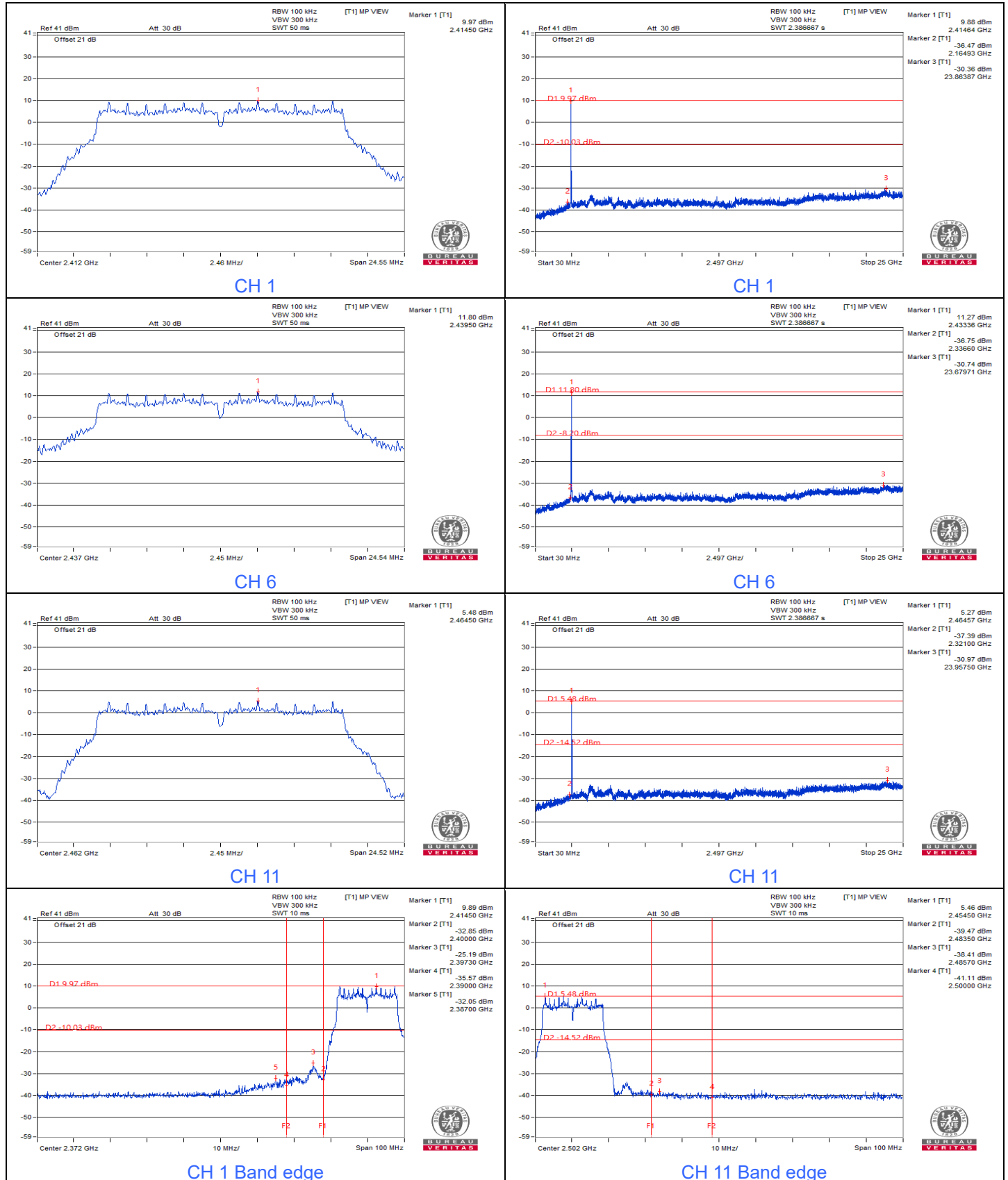
7.4 Conducted Out of Band Emissions

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 72% RH	Tested By:	Louis Yang
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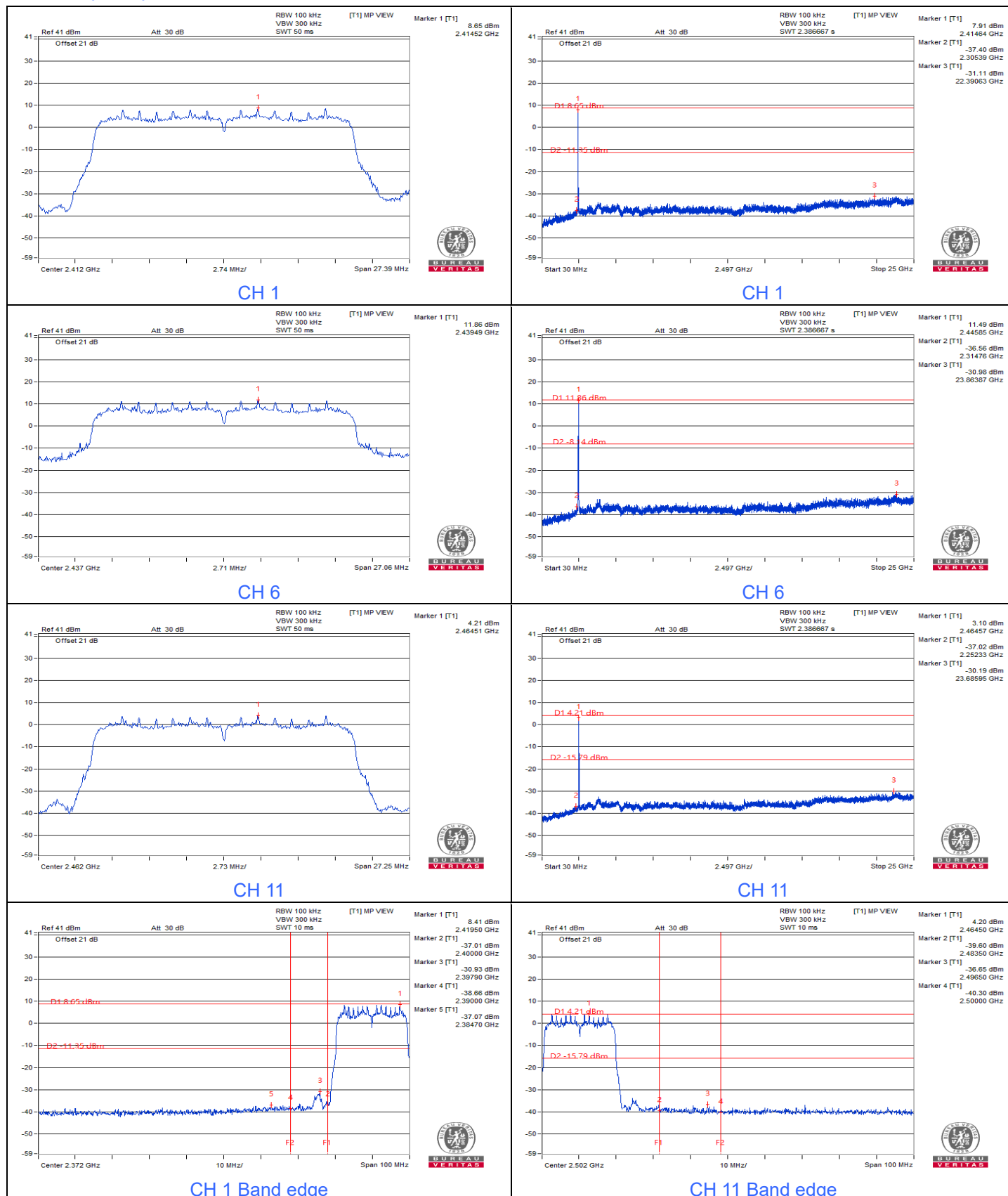
802.11b



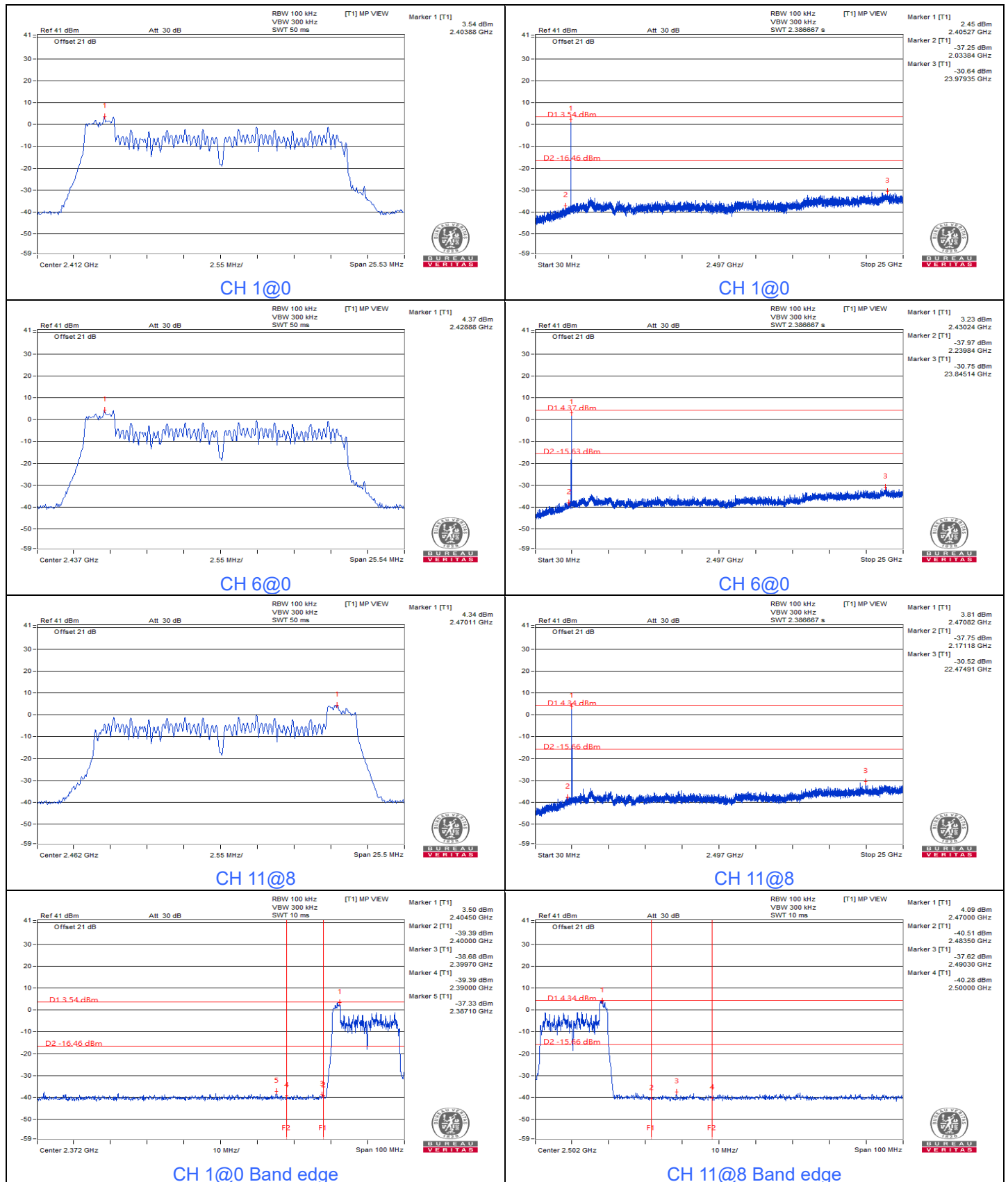
802.11g



802.11ax (HE20)



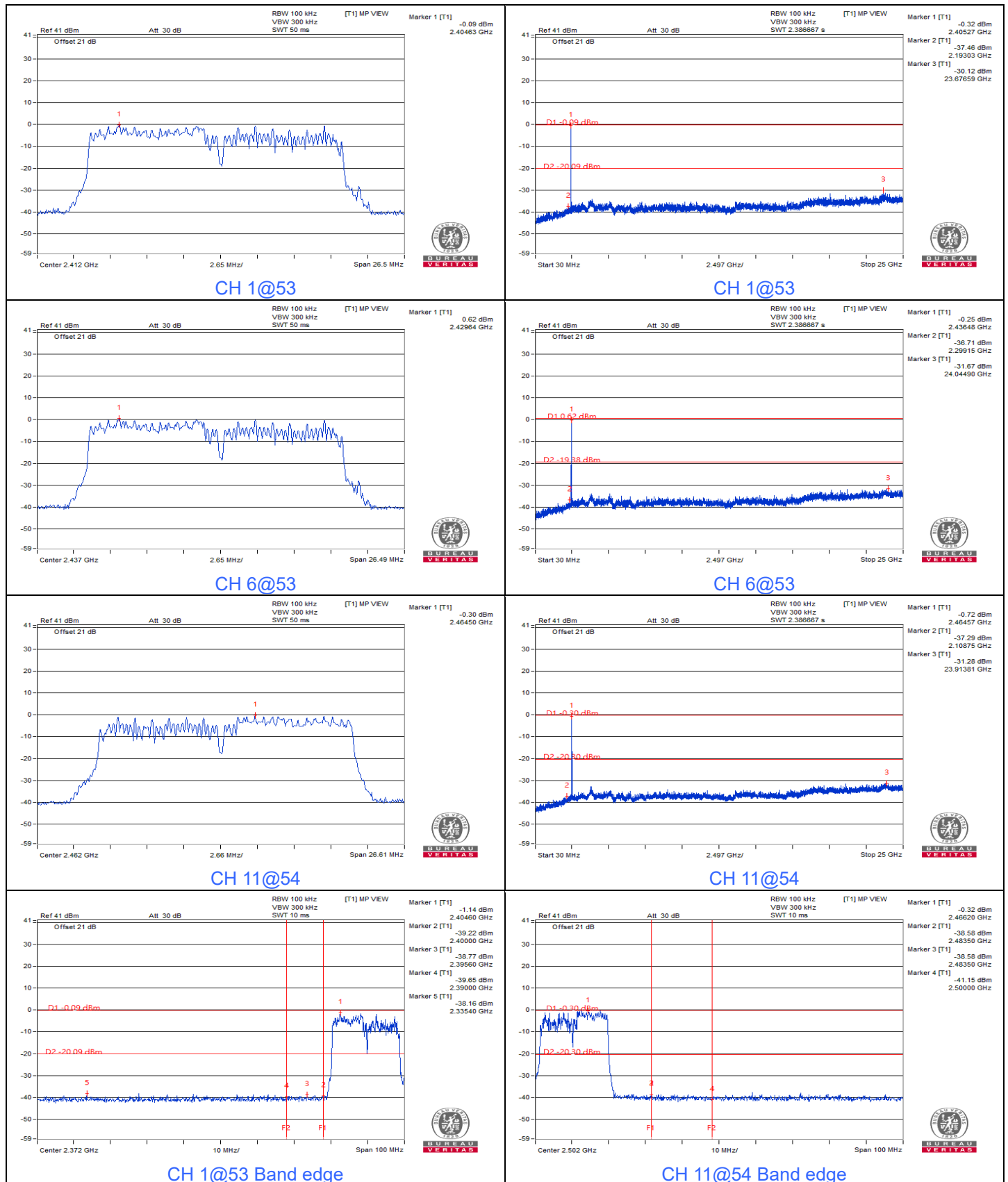
802.11ax (HE20) 26-tone RU



802.11ax (HE20) 52-tone RU



802.11ax (HE20) 106-tone RU



7.5 AC Power Conducted Emissions

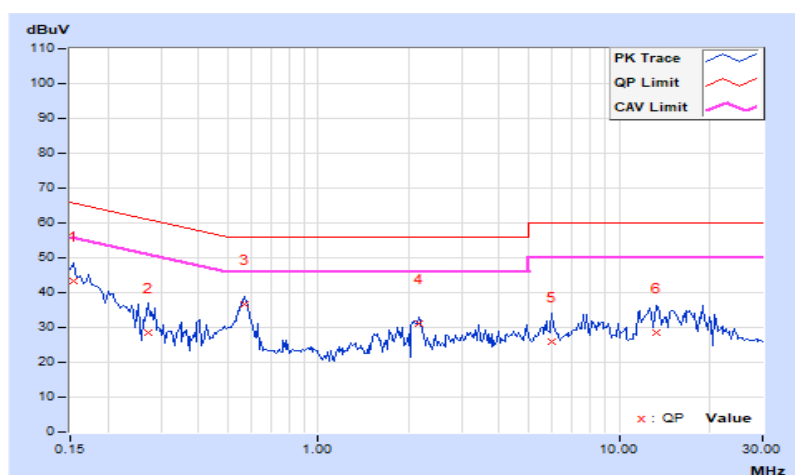
Mode A

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 (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Louis Yang		

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	0.15391	9.93	33.22	18.26	43.15	28.19	65.79	55.79	-22.64	-27.60
2	0.27109	9.93	18.55	3.76	28.48	13.69	61.08	51.08	-32.60	-37.39
3	0.56797	9.95	26.82	19.04	36.77	28.99	56.00	46.00	-19.23	-17.01
4	2.16016	10.01	21.15	8.31	31.16	18.32	56.00	46.00	-24.84	-27.68
5	5.99609	10.22	15.65	9.51	25.87	19.73	60.00	50.00	-34.13	-30.27
6	13.23828	10.68	17.77	7.53	28.45	18.21	60.00	50.00	-31.55	-31.79

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

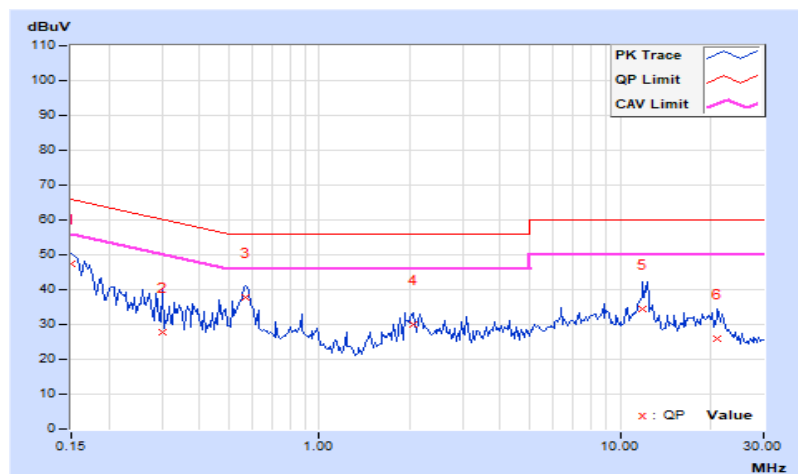


RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 71% RH
Tested By	Louis Yang		

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	37.26	20.68	47.26	30.68	66.00	56.00	-18.74	-25.32
2	0.30234	10.00	17.79	1.82	27.79	11.82	60.18	50.18	-32.39	-38.36
3	0.56797	10.01	27.84	20.57	37.85	30.58	56.00	46.00	-18.15	-15.42
4	2.04297	10.05	19.92	10.67	29.97	20.72	56.00	46.00	-26.03	-25.28
5	11.87109	10.49	24.00	18.13	34.49	28.62	60.00	50.00	-25.51	-21.38
6	21.07422	10.90	15.17	6.73	26.07	17.63	60.00	50.00	-33.93	-32.37

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

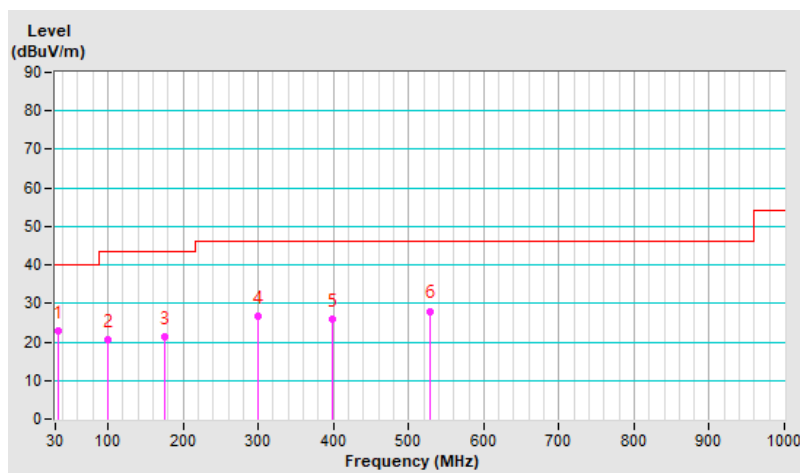
Mode A

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 (System)	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% 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	33.93	22.9 QP	40.0	-17.1	2.50 H	8	36.3	-13.4
2	100.23	20.7 QP	43.5	-22.8	2.00 H	304	37.5	-16.8
3	176.08	21.5 QP	43.5	-22.0	1.50 H	212	35.3	-13.8
4	299.08	26.6 QP	46.0	-19.4	1.00 H	272	38.4	-11.8
5	398.94	25.9 QP	46.0	-20.1	2.50 H	101	35.3	-9.4
6	527.80	28.0 QP	46.0	-18.0	1.50 H	82	34.1	-6.1

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.

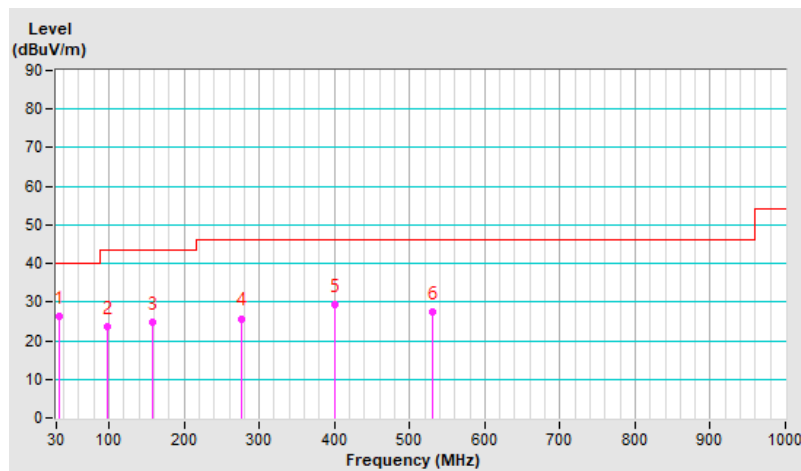


RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Louis Yang		

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	33.30	26.4 QP	40.0	-13.6	1.50 V	2	39.9	-13.5
2	98.17	23.6 QP	43.5	-19.9	2.00 V	203	40.9	-17.3
3	157.51	24.8 QP	43.5	-18.7	1.00 V	224	37.3	-12.5
4	276.14	25.7 QP	46.0	-20.3	2.00 V	325	38.1	-12.4
5	400.18	29.5 QP	46.0	-16.5	1.00 V	360	38.8	-9.3
6	529.74	27.5 QP	46.0	-18.5	2.50 V	90	33.4	-5.9

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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



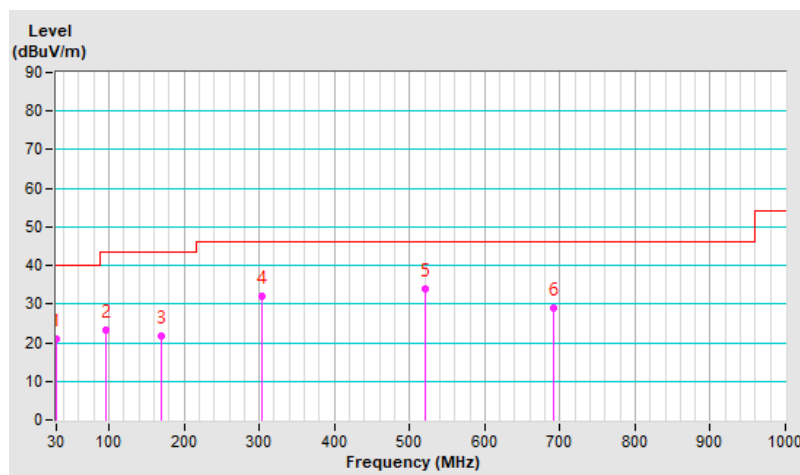
Mode B

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 (System)	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% 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	30.15	20.8 QP	40.0	-19.2	1.00 H	27	34.4	-13.6
2	96.81	23.3 QP	43.5	-20.2	2.00 H	292	40.9	-17.6
3	169.10	21.7 QP	43.5	-21.8	3.00 H	360	34.7	-13.0
4	302.67	31.9 QP	46.0	-14.1	3.50 H	247	43.2	-11.3
5	520.02	34.0 QP	46.0	-12.0	2.00 H	200	40.3	-6.3
6	691.44	28.8 QP	46.0	-17.2	3.00 H	47	31.4	-2.6

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.

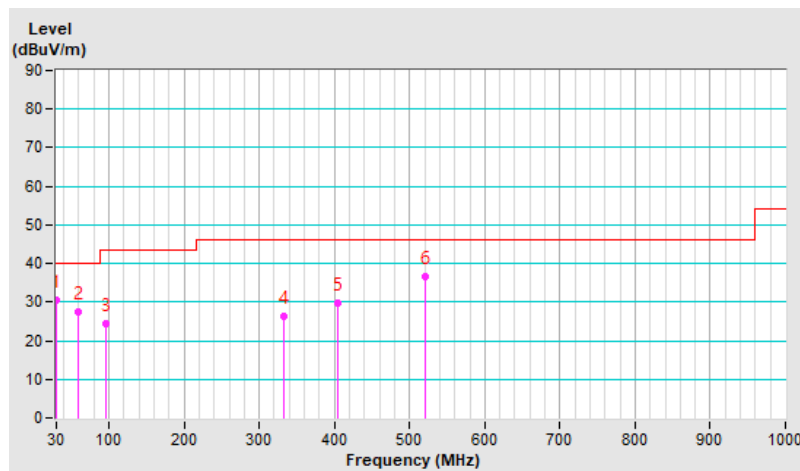


RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22°C, 71% RH
Tested By	Louis Yang		

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	30.00	30.3 QP	40.0	-9.7	1.00 V	0	43.8	-13.5
2	59.71	27.6 QP	40.0	-12.4	1.50 V	360	40.8	-13.2
3	96.52	24.5 QP	43.5	-19.0	1.50 V	360	42.2	-17.7
4	332.76	26.2 QP	46.0	-19.8	2.00 V	156	36.5	-10.3
5	404.81	29.7 QP	46.0	-16.3	1.50 V	178	38.8	-9.1
6	520.02	36.6 QP	46.0	-9.4	1.00 V	66	42.9	-6.3

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 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

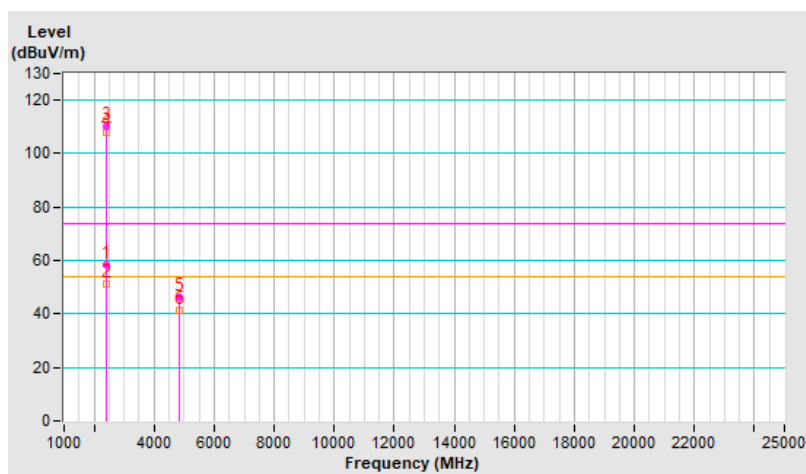
Mode A

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 (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% 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	2390.00	58.4 PK	74.0	-15.6	2.23 H	178	60.7	-2.3
2	2390.00	51.0 AV	54.0	-3.0	2.23 H	178	53.3	-2.3
3	*2412.00	110.3 PK			2.23 H	178	112.7	-2.4
4	*2412.00	108.0 AV			2.23 H	178	110.4	-2.4
5	4824.00	46.5 PK	74.0	-27.5	1.79 H	202	44.3	2.2
6	4824.00	41.4 AV	54.0	-12.6	1.79 H	202	39.2	2.2

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.

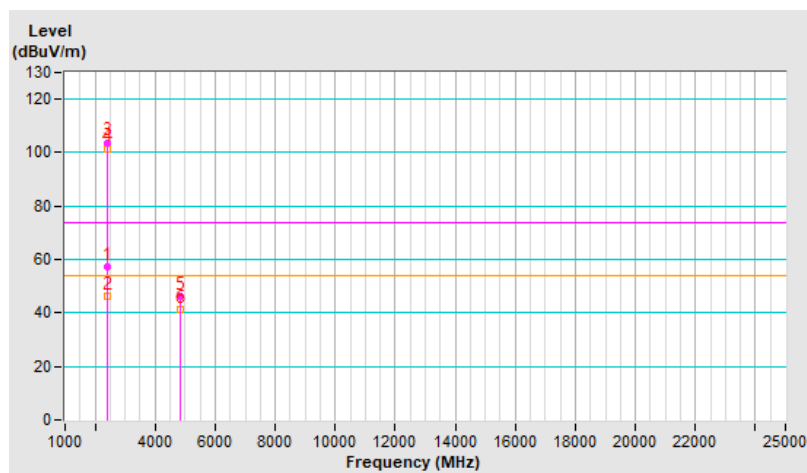


RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	57.2 PK	74.0	-16.8	3.70 V	244	59.5	-2.3
2	2390.00	46.3 AV	54.0	-7.7	3.70 V	244	48.6	-2.3
3	*2412.00	103.8 PK			3.70 V	244	106.2	-2.4
4	*2412.00	101.6 AV			3.70 V	244	104.0	-2.4
5	4824.00	46.2 PK	74.0	-27.8	1.78 V	206	44.0	2.2
6	4824.00	41.3 AV	54.0	-12.7	1.78 V	206	39.1	2.2

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.

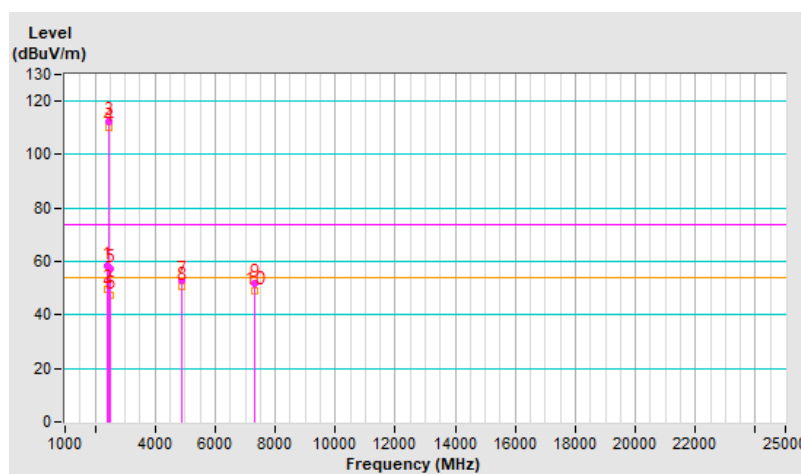


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	58.2 PK	74.0	-15.8	2.22 H	168	60.5	-2.3
2	2390.00	49.6 AV	54.0	-4.4	2.22 H	168	51.9	-2.3
3	*2437.00	112.5 PK			2.22 H	168	114.8	-2.3
4	*2437.00	110.1 AV			2.22 H	168	112.4	-2.3
5	2483.50	57.4 PK	74.0	-16.6	2.22 H	168	59.7	-2.3
6	2483.50	47.4 AV	54.0	-6.6	2.22 H	168	49.7	-2.3
7	4874.00	53.1 PK	74.0	-20.9	1.85 H	166	51.0	2.1
8	4874.00	50.7 AV	54.0	-3.3	1.85 H	166	48.6	2.1
9	7311.00	51.7 PK	74.0	-22.3	3.90 H	199	44.2	7.5
10	7311.00	49.1 AV	54.0	-4.9	3.90 H	199	41.6	7.5

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.

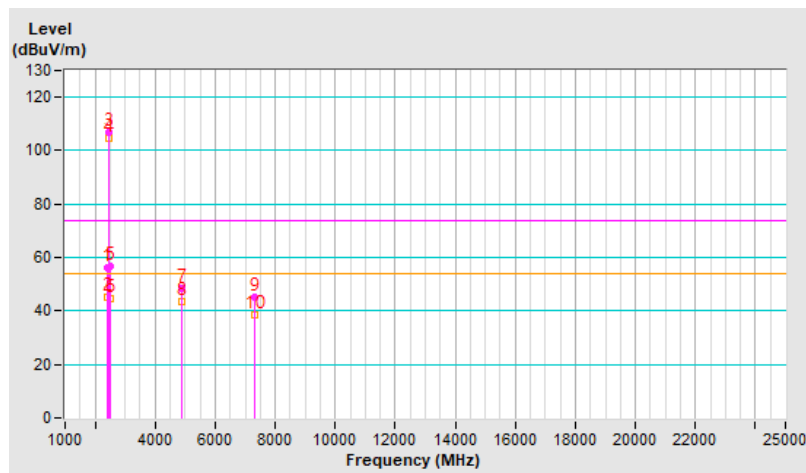


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	56.2 PK	74.0	-17.8	3.73 V	294	58.5	-2.3
2	2390.00	44.9 AV	54.0	-9.1	3.73 V	294	47.2	-2.3
3	*2437.00	106.7 PK			3.73 V	294	109.0	-2.3
4	*2437.00	104.5 AV			3.73 V	294	106.8	-2.3
5	2483.50	56.9 PK	74.0	-17.1	3.73 V	294	59.2	-2.3
6	2483.50	44.8 AV	54.0	-9.2	3.73 V	294	47.1	-2.3
7	4874.00	48.6 PK	74.0	-25.4	3.11 V	43	46.5	2.1
8	4874.00	43.6 AV	54.0	-10.4	3.11 V	43	41.5	2.1
9	7311.00	45.3 PK	74.0	-28.7	1.03 V	167	37.8	7.5
10	7311.00	38.5 AV	54.0	-15.5	1.03 V	167	31.0	7.5

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.

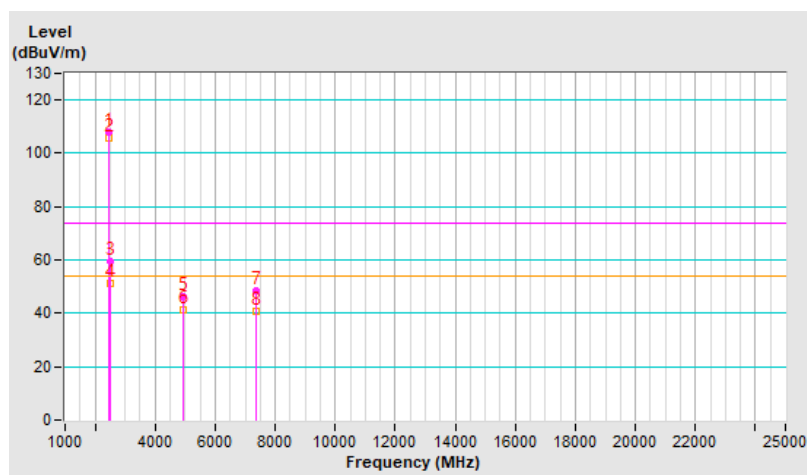


RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	*2462.00	108.0 PK			2.19 H	178	110.2	-2.2
2	*2462.00	105.6 AV			2.19 H	178	107.8	-2.2
3	2483.50	59.7 PK	74.0	-14.3	2.19 H	178	62.0	-2.3
4	2483.50	51.0 AV	54.0	-3.0	2.19 H	178	53.3	-2.3
5	4924.00	46.2 PK	74.0	-27.8	1.90 H	182	44.1	2.1
6	4924.00	41.2 AV	54.0	-12.8	1.90 H	182	39.1	2.1
7	7386.00	48.6 PK	74.0	-25.4	3.93 H	208	40.5	8.1
8	7386.00	40.7 AV	54.0	-13.3	3.93 H	208	32.6	8.1

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.

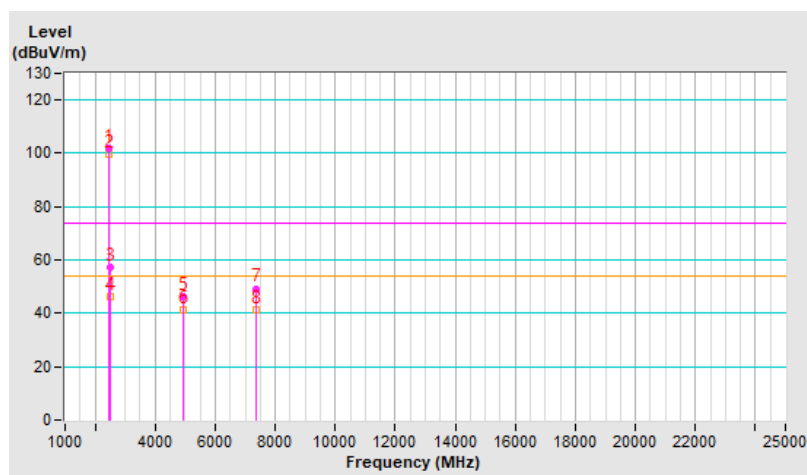


RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	*2462.00	101.9 PK			3.90 V	246	104.1	-2.2
2	*2462.00	99.6 AV			3.90 V	246	101.8	-2.2
3	2483.50	57.3 PK	74.0	-16.7	3.90 V	246	59.6	-2.3
4	2483.50	46.2 AV	54.0	-7.8	3.90 V	246	48.5	-2.3
5	4924.00	46.4 PK	74.0	-27.6	1.93 V	191	44.3	2.1
6	4924.00	41.5 AV	54.0	-12.5	1.93 V	191	39.4	2.1
7	7386.00	49.3 PK	74.0	-24.7	3.97 V	211	41.2	8.1
8	7386.00	41.2 AV	54.0	-12.8	3.97 V	211	33.1	8.1

Remarks:

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

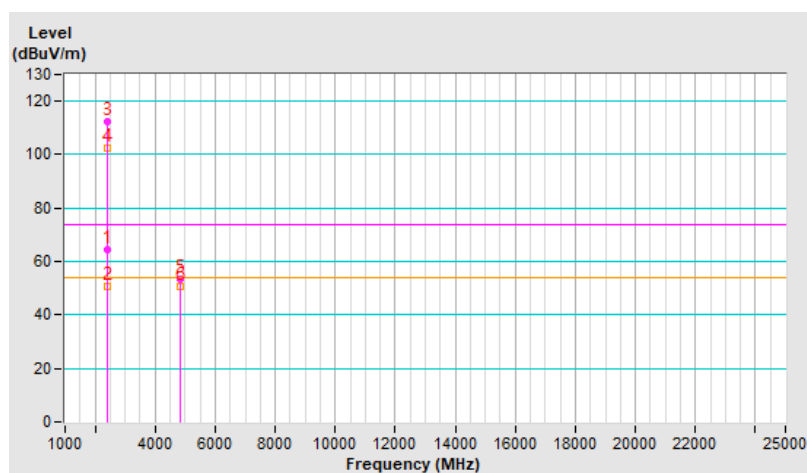


RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	64.2 PK	74.0	-9.8	1.50 H	354	66.5	-2.3
2	2390.00	50.8 AV	54.0	-3.2	1.50 H	354	53.1	-2.3
3	*2412.00	112.1 PK			1.50 H	354	114.5	-2.4
4	*2412.00	102.2 AV			1.50 H	354	104.6	-2.4
5	4824.00	53.3 PK	74.0	-20.7	1.75 H	155	51.1	2.2
6	4824.00	50.5 AV	54.0	-3.5	1.75 H	155	48.3	2.2

Remarks:

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

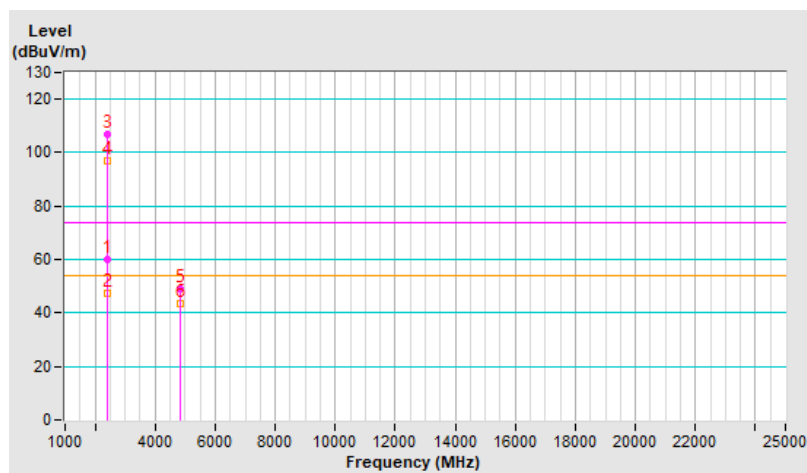


RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	60.1 PK	74.0	-13.9	3.71 V	246	62.4	-2.3
2	2390.00	47.3 AV	54.0	-6.7	3.71 V	246	49.6	-2.3
3	*2412.00	106.6 PK			3.71 V	246	109.0	-2.4
4	*2412.00	96.7 AV			3.71 V	246	99.1	-2.4
5	4824.00	49.0 PK	74.0	-25.0	1.00 V	303	46.8	2.2
6	4824.00	43.4 AV	54.0	-10.6	1.00 V	303	41.2	2.2

Remarks:

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

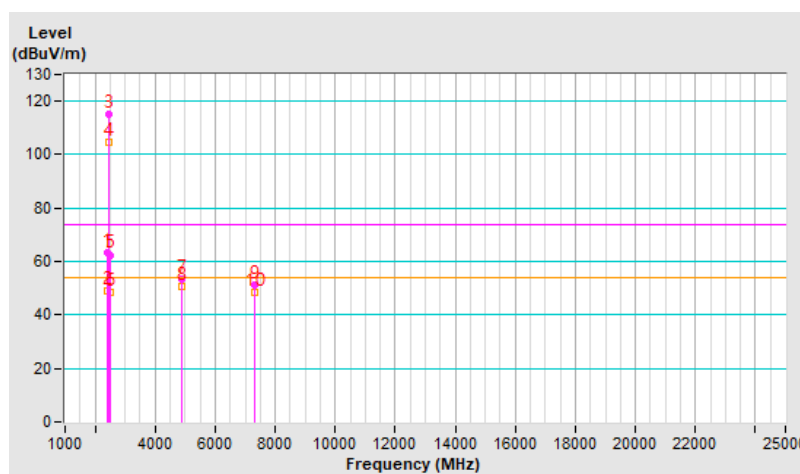


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	63.1 PK	74.0	-10.9	2.21 H	179	65.4	-2.3
2	2390.00	48.9 AV	54.0	-5.1	2.21 H	179	51.2	-2.3
3	*2437.00	115.2 PK			2.21 H	179	117.5	-2.3
4	*2437.00	104.7 AV			2.21 H	179	107.0	-2.3
5	2483.50	62.5 PK	74.0	-11.5	2.21 H	179	64.8	-2.3
6	2483.50	48.6 AV	54.0	-5.4	2.21 H	179	50.9	-2.3
7	4874.00	53.3 PK	74.0	-20.7	1.80 H	161	51.2	2.1
8	4874.00	50.6 AV	54.0	-3.4	1.80 H	161	48.5	2.1
9	7311.00	51.4 PK	74.0	-22.6	3.95 H	200	43.9	7.5
10	7311.00	48.7 AV	54.0	-5.3	3.95 H	200	41.2	7.5

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.

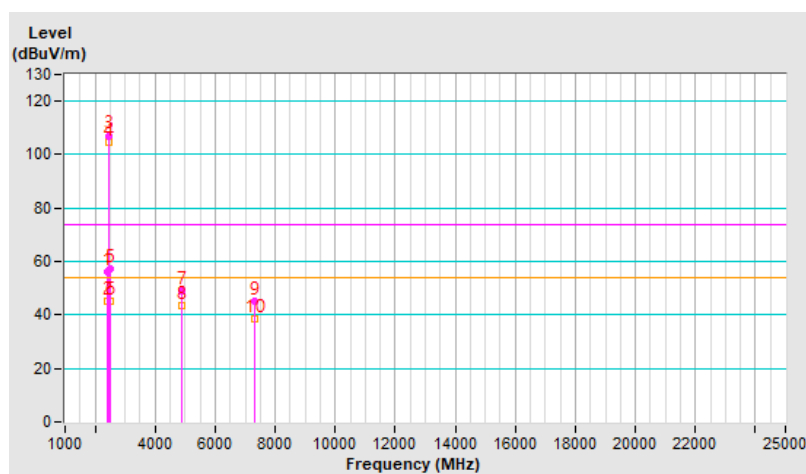


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	56.3 PK	74.0	-17.7	3.71 V	284	58.6	-2.3
2	2390.00	45.1 AV	54.0	-8.9	3.71 V	284	47.4	-2.3
3	*2437.00	107.1 PK			3.71 V	284	109.4	-2.3
4	*2437.00	104.8 AV			3.71 V	284	107.1	-2.3
5	2483.50	57.3 PK	74.0	-16.7	3.71 V	284	59.6	-2.3
6	2483.50	45.1 AV	54.0	-8.9	3.71 V	284	47.4	-2.3
7	4874.00	48.8 PK	74.0	-25.2	1.00 V	315	46.7	2.1
8	4874.00	43.5 AV	54.0	-10.5	1.00 V	315	41.4	2.1
9	7311.00	45.3 PK	74.0	-28.7	1.00 V	101	37.8	7.5
10	7311.00	38.4 AV	54.0	-15.6	1.00 V	101	30.9	7.5

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.

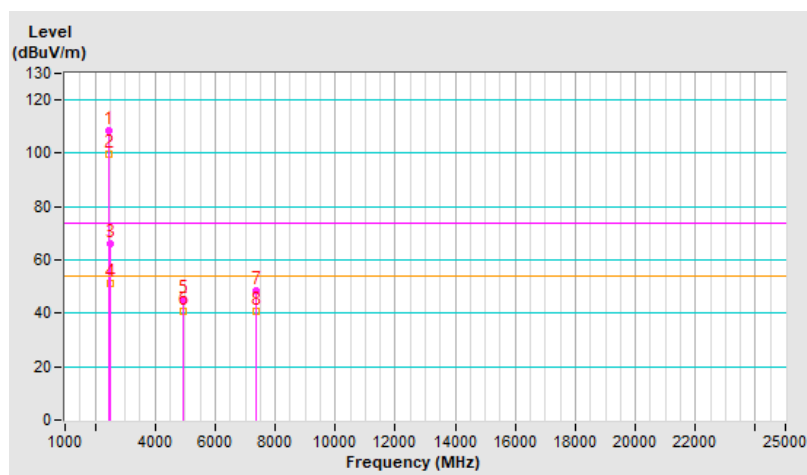


RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	*2462.00	108.6 PK			2.19 H	176	110.8	-2.2
2	*2462.00	99.6 AV			2.19 H	176	101.8	-2.2
3	2483.50	66.1 PK	74.0	-7.9	2.19 H	176	68.4	-2.3
4	2483.50	51.0 AV	54.0	-3.0	2.19 H	176	53.3	-2.3
5	4924.00	45.4 PK	74.0	-28.6	1.87 H	195	43.3	2.1
6	4924.00	40.7 AV	54.0	-13.3	1.87 H	195	38.6	2.1
7	7386.00	48.5 PK	74.0	-25.5	3.98 H	204	40.4	8.1
8	7386.00	40.9 AV	54.0	-13.1	3.98 H	204	32.8	8.1

Remarks:

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

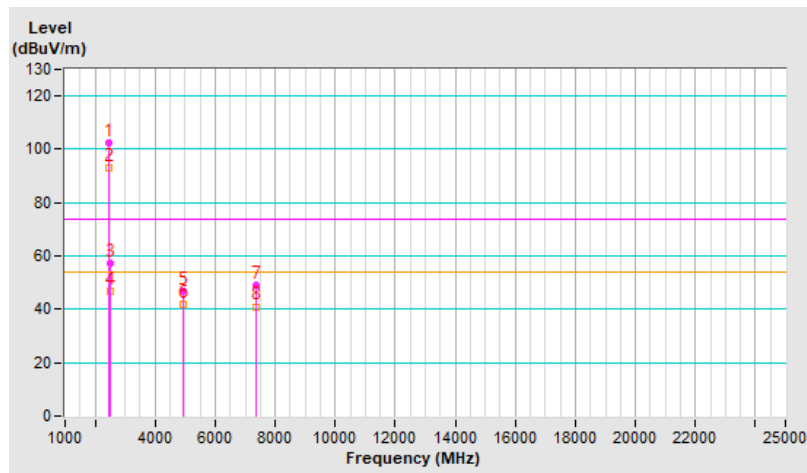


RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	*2462.00	102.3 PK			3.92 V	244	104.5	-2.2
2	*2462.00	93.0 AV			3.92 V	244	95.2	-2.2
3	2483.50	57.3 PK	74.0	-16.7	3.92 V	244	59.6	-2.3
4	2483.50	46.6 AV	54.0	-7.4	3.92 V	244	48.9	-2.3
5	4924.00	46.6 PK	74.0	-27.4	1.88 V	204	44.5	2.1
6	4924.00	41.8 AV	54.0	-12.2	1.88 V	204	39.7	2.1
7	7386.00	49.1 PK	74.0	-24.9	4.00 V	217	41.0	8.1
8	7386.00	41.0 AV	54.0	-13.0	4.00 V	217	32.9	8.1

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.

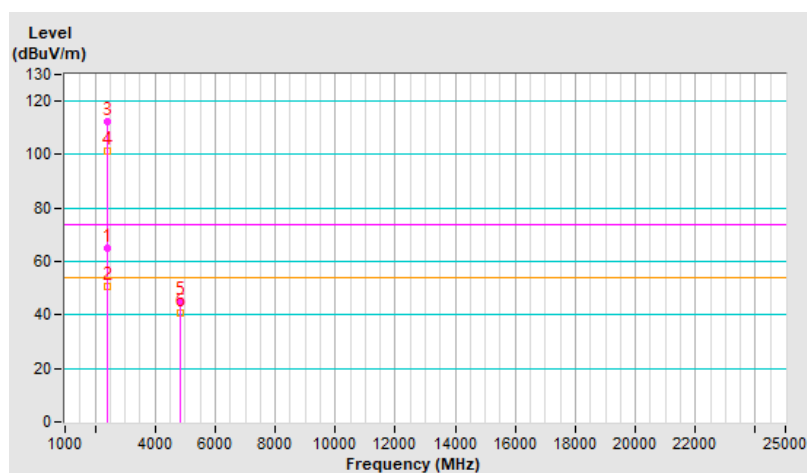


RF Mode	802.11ax (HE20)	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	65.1 PK	74.0	-8.9	2.24 H	178	67.4	-2.3
2	2390.00	50.9 AV	54.0	-3.1	2.24 H	178	53.2	-2.3
3	*2412.00	112.4 PK			2.24 H	178	114.8	-2.4
4	*2412.00	101.2 AV			2.24 H	178	103.6	-2.4
5	4824.00	45.3 PK	74.0	-28.7	1.92 H	211	43.1	2.2
6	4824.00	40.8 AV	54.0	-13.2	1.92 H	211	38.6	2.2

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.

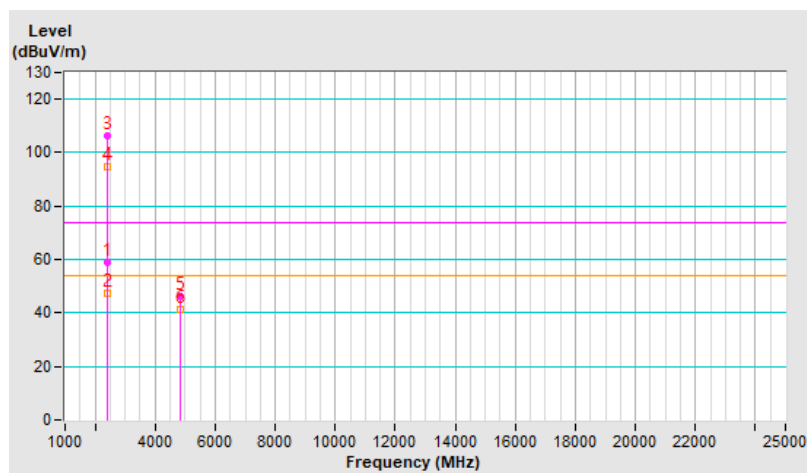


RF Mode	802.11ax (HE20)	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	58.7 PK	74.0	-15.3	3.73 V	245	61.0	-2.3
2	2390.00	47.1 AV	54.0	-6.9	3.73 V	245	49.4	-2.3
3	*2412.00	106.2 PK			3.73 V	245	108.6	-2.4
4	*2412.00	94.8 AV			3.73 V	245	97.2	-2.4
5	4824.00	46.0 PK	74.0	-28.0	1.90 V	185	43.8	2.2
6	4824.00	41.4 AV	54.0	-12.6	1.90 V	185	39.2	2.2

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.

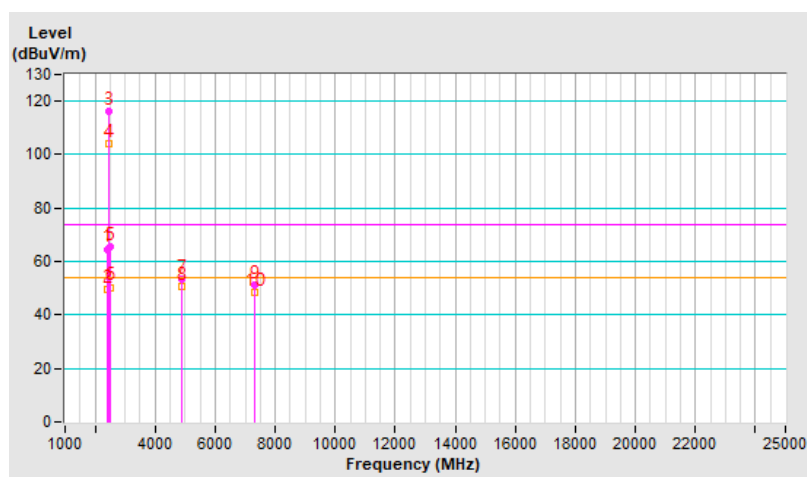


RF Mode	802.11ax (HE20)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	64.7 PK	74.0	-9.3	2.22 H	178	67.0	-2.3
2	2390.00	49.8 AV	54.0	-4.2	2.22 H	178	52.1	-2.3
3	*2437.00	116.0 PK			2.22 H	178	118.3	-2.3
4	*2437.00	104.1 AV			2.22 H	178	106.4	-2.3
5	2483.50	65.5 PK	74.0	-8.5	2.22 H	178	67.8	-2.3
6	2483.50	50.4 AV	54.0	-3.6	2.22 H	178	52.7	-2.3
7	4874.00	53.6 PK	74.0	-20.4	1.84 H	162	51.5	2.1
8	4874.00	50.7 AV	54.0	-3.3	1.84 H	162	48.6	2.1
9	7311.00	51.2 PK	74.0	-22.8	4.00 H	194	43.7	7.5
10	7311.00	48.2 AV	54.0	-5.8	4.00 H	194	40.7	7.5

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.

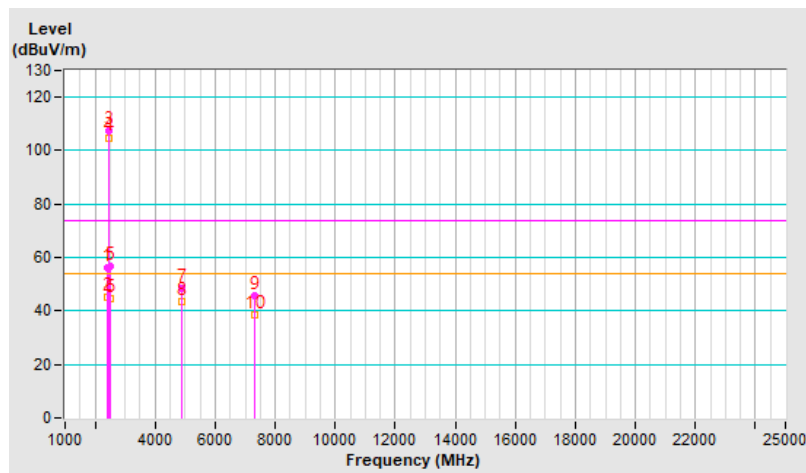


RF Mode	802.11ax (HE20)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	56.2 PK	74.0	-17.8	3.67 V	285	58.5	-2.3
2	2390.00	45.0 AV	54.0	-9.0	3.67 V	285	47.3	-2.3
3	*2437.00	107.4 PK			3.67 V	285	109.7	-2.3
4	*2437.00	104.9 AV			3.67 V	285	107.2	-2.3
5	2483.50	56.9 PK	74.0	-17.1	3.67 V	285	59.2	-2.3
6	2483.50	44.8 AV	54.0	-9.2	3.67 V	285	47.1	-2.3
7	4874.00	48.6 PK	74.0	-25.4	3.15 V	38	46.5	2.1
8	4874.00	43.4 AV	54.0	-10.6	3.15 V	38	41.3	2.1
9	7311.00	45.5 PK	74.0	-28.5	1.00 V	161	38.0	7.5
10	7311.00	38.6 AV	54.0	-15.4	1.00 V	161	31.1	7.5

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.

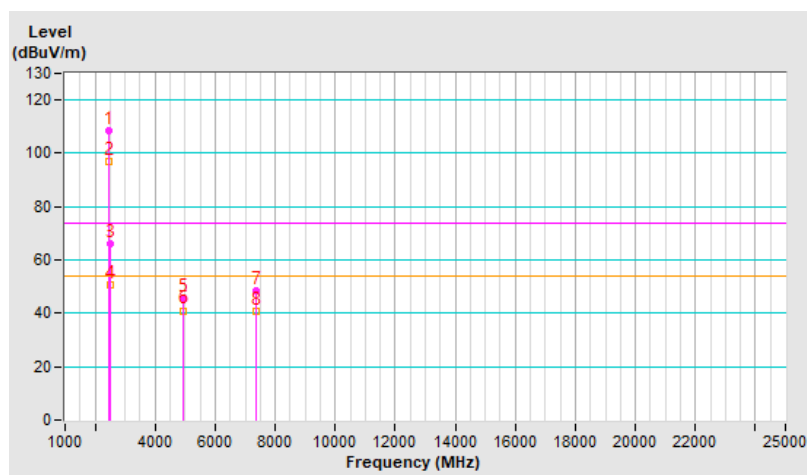


RF Mode	802.11ax (HE20)	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	*2462.00	108.6 PK			2.17 H	175	110.8	-2.2
2	*2462.00	96.9 AV			2.17 H	175	99.1	-2.2
3	2483.50	66.2 PK	74.0	-7.8	2.17 H	175	68.5	-2.3
4	2483.50	50.9 AV	54.0	-3.1	2.17 H	175	53.2	-2.3
5	4924.00	45.8 PK	74.0	-28.2	1.90 H	196	43.7	2.1
6	4924.00	41.0 AV	54.0	-13.0	1.90 H	196	38.9	2.1
7	7386.00	48.6 PK	74.0	-25.4	3.90 H	222	40.5	8.1
8	7386.00	40.6 AV	54.0	-13.4	3.90 H	222	32.5	8.1

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.

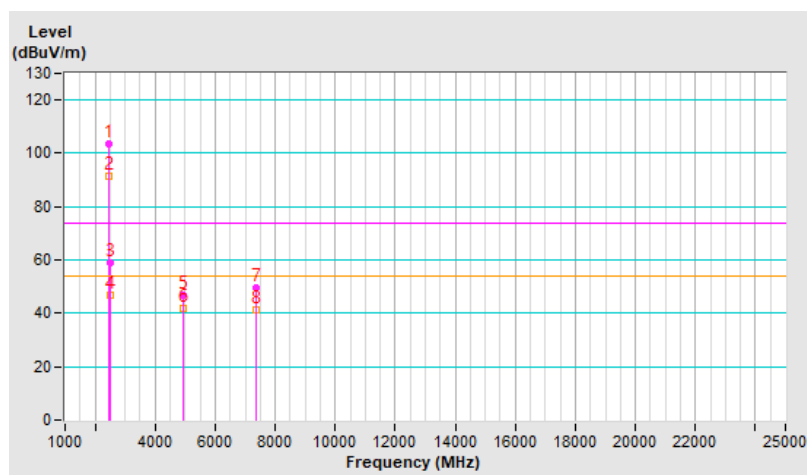


RF Mode	802.11ax (HE20)	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	*2462.00	103.5 PK			3.93 V	246	105.7	-2.2
2	*2462.00	91.4 AV			3.93 V	246	93.6	-2.2
3	2483.50	59.0 PK	74.0	-15.0	3.93 V	246	61.3	-2.3
4	2483.50	46.7 AV	54.0	-7.3	3.93 V	246	49.0	-2.3
5	4924.00	46.6 PK	74.0	-27.4	1.91 V	180	44.5	2.1
6	4924.00	41.6 AV	54.0	-12.4	1.91 V	180	39.5	2.1
7	7386.00	49.6 PK	74.0	-24.4	3.98 V	202	41.5	8.1
8	7386.00	41.2 AV	54.0	-12.8	3.98 V	202	33.1	8.1

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.

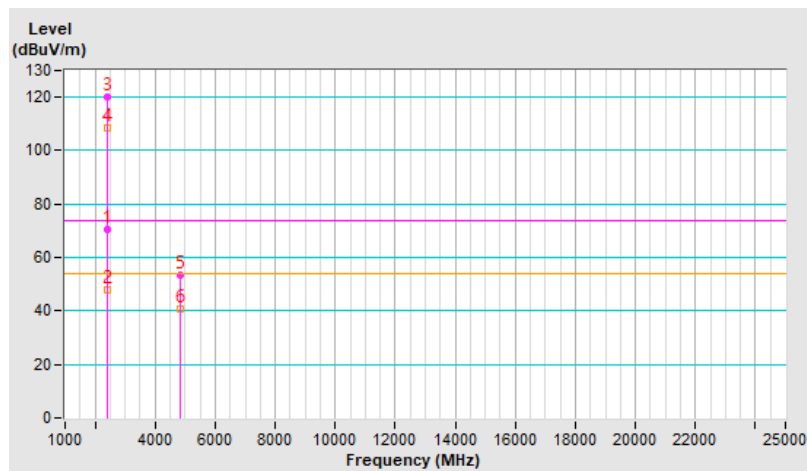


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	70.6 PK	74.0	-3.4	2.25 H	360	72.9	-2.3
2	2390.00	47.9 AV	54.0	-6.1	2.25 H	360	50.2	-2.3
3	*2412.00	120.2 PK			2.25 H	360	122.6	-2.4
4	*2412.00	108.4 AV			2.25 H	360	110.8	-2.4
5	4824.00	53.5 PK	74.0	-20.5	1.00 H	196	51.3	2.2
6	4824.00	40.9 AV	54.0	-13.1	1.00 H	196	38.7	2.2

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.

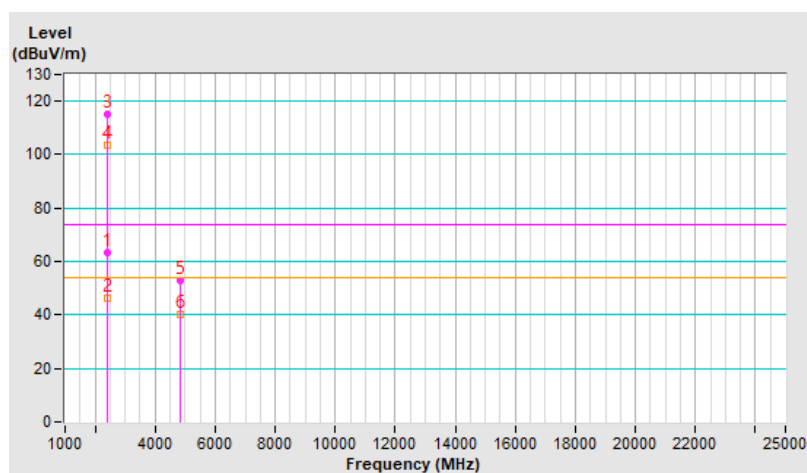


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	63.2 PK	74.0	-10.8	3.32 V	280	65.5	-2.3
2	2390.00	46.1 AV	54.0	-7.9	3.32 V	280	48.4	-2.3
3	*2412.00	115.3 PK			3.32 V	280	117.7	-2.4
4	*2412.00	103.4 AV			3.32 V	280	105.8	-2.4
5	4824.00	53.1 PK	74.0	-20.9	2.96 V	117	50.9	2.2
6	4824.00	40.3 AV	54.0	-13.7	2.96 V	117	38.1	2.2

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.

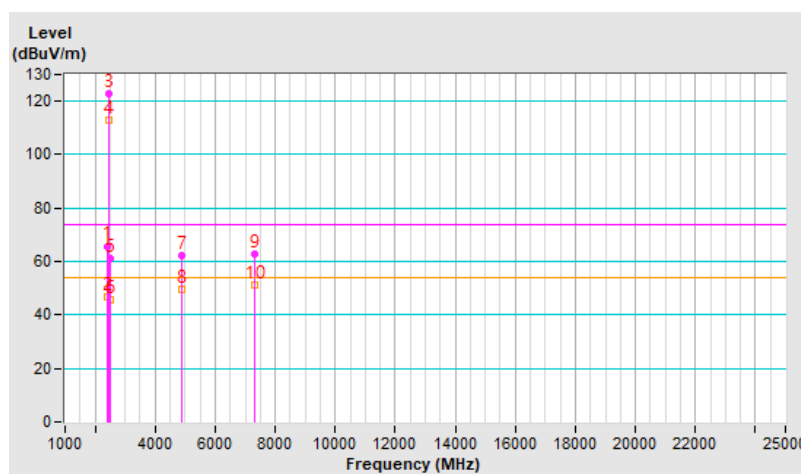


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	65.8 PK	74.0	-8.2	2.45 H	360	68.1	-2.3
2	2390.00	46.8 AV	54.0	-7.2	2.45 H	360	49.1	-2.3
3	*2437.00	122.9 PK			2.45 H	360	125.2	-2.3
4	*2437.00	113.0 AV			2.45 H	360	115.3	-2.3
5	2483.50	61.2 PK	74.0	-12.8	2.45 H	360	63.5	-2.3
6	2483.50	45.7 AV	54.0	-8.3	2.45 H	360	48.0	-2.3
7	4874.00	62.1 PK	74.0	-11.9	1.00 H	191	60.0	2.1
8	4874.00	49.4 AV	54.0	-4.6	1.00 H	191	47.3	2.1
9	7311.00	62.7 PK	74.0	-11.3	3.77 H	220	55.2	7.5
10	7311.00	51.0 AV	54.0	-3.0	3.77 H	220	43.5	7.5

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.

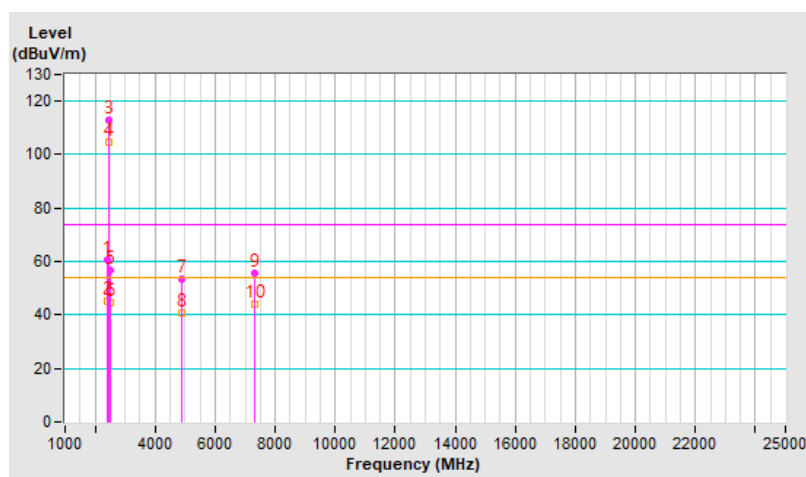


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	60.4 PK	74.0	-13.6	3.30 V	286	62.7	-2.3
2	2390.00	45.4 AV	54.0	-8.6	3.30 V	286	47.7	-2.3
3	*2437.00	112.9 PK			3.30 V	286	115.2	-2.3
4	*2437.00	104.4 AV			3.30 V	286	106.7	-2.3
5	2483.50	56.7 PK	74.0	-17.3	3.30 V	286	59.0	-2.3
6	2483.50	44.7 AV	54.0	-9.3	3.30 V	286	47.0	-2.3
7	4874.00	53.4 PK	74.0	-20.6	2.97 V	127	51.3	2.1
8	4874.00	40.7 AV	54.0	-13.3	2.97 V	127	38.6	2.1
9	7311.00	55.5 PK	74.0	-18.5	1.28 V	187	48.0	7.5
10	7311.00	44.2 AV	54.0	-9.8	1.28 V	187	36.7	7.5

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.

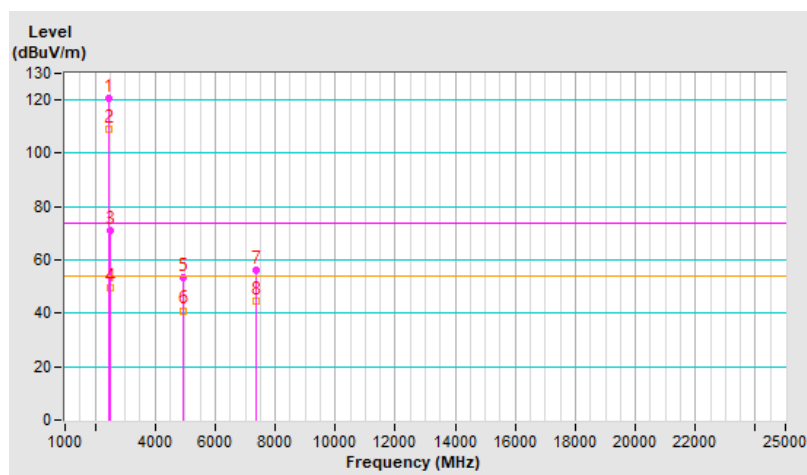


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	*2462.00	120.4 PK			2.37 H	360	122.6	-2.2
2	*2462.00	108.8 AV			2.37 H	360	111.0	-2.2
3	2483.50	70.9 PK	74.0	-3.1	2.37 H	360	73.2	-2.3
4	2483.50	49.4 AV	54.0	-4.6	2.37 H	360	51.7	-2.3
5	4924.00	53.5 PK	74.0	-20.5	1.00 H	190	51.4	2.1
6	4924.00	41.0 AV	54.0	-13.0	1.00 H	190	38.9	2.1
7	7386.00	56.0 PK	74.0	-18.0	3.79 H	223	47.9	8.1
8	7386.00	44.6 AV	54.0	-9.4	3.79 H	223	36.5	8.1

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.

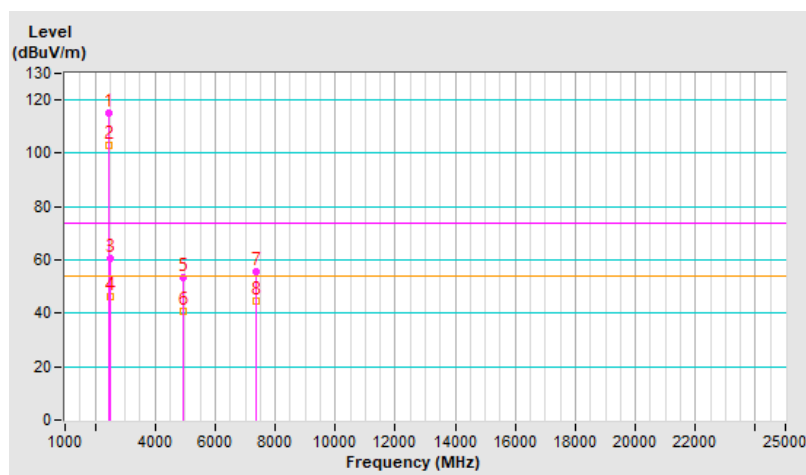


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	*2462.00	115.0 PK			3.59 V	274	117.2	-2.2
2	*2462.00	103.0 AV			3.59 V	274	105.2	-2.2
3	2483.50	60.8 PK	74.0	-13.2	3.59 V	274	63.1	-2.3
4	2483.50	46.2 AV	54.0	-7.8	3.59 V	274	48.5	-2.3
5	4924.00	53.5 PK	74.0	-20.5	2.97 V	146	51.4	2.1
6	4924.00	40.7 AV	54.0	-13.3	2.97 V	146	38.6	2.1
7	7386.00	55.7 PK	74.0	-18.3	1.21 V	200	47.6	8.1
8	7386.00	44.4 AV	54.0	-9.6	1.21 V	200	36.3	8.1

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.

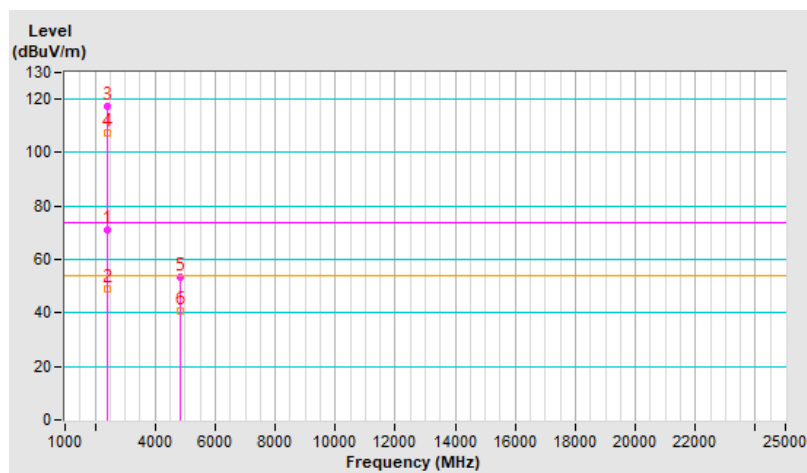


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	70.9 PK	74.0	-3.1	2.24 H	11	73.2	-2.3
2	2390.00	48.8 AV	54.0	-5.2	2.24 H	11	51.1	-2.3
3	*2412.00	117.3 PK			2.24 H	11	119.7	-2.4
4	*2412.00	107.4 AV			2.24 H	11	109.8	-2.4
5	4824.00	53.2 PK	74.0	-20.8	1.02 H	206	51.0	2.2
6	4824.00	40.8 AV	54.0	-13.2	1.02 H	206	38.6	2.2

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.

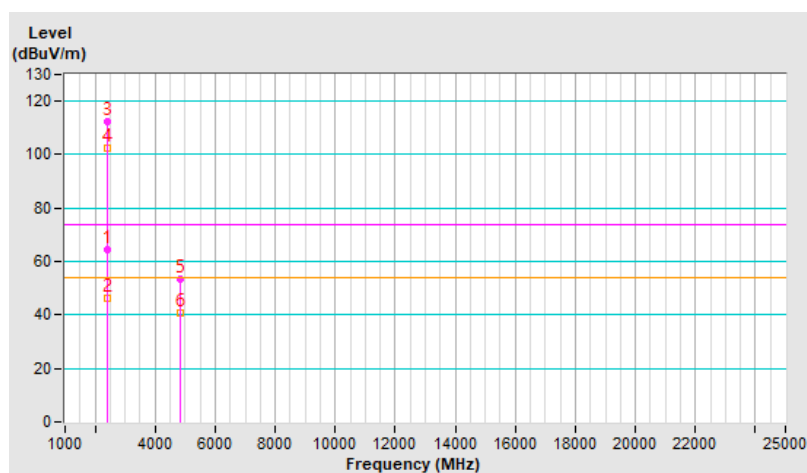


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	64.6 PK	74.0	-9.4	3.34 V	278	66.9	-2.3
2	2390.00	46.2 AV	54.0	-7.8	3.34 V	278	48.5	-2.3
3	*2412.00	112.5 PK			3.34 V	278	114.9	-2.4
4	*2412.00	102.4 AV			3.34 V	278	104.8	-2.4
5	4824.00	53.2 PK	74.0	-20.8	3.02 V	146	51.0	2.2
6	4824.00	40.5 AV	54.0	-13.5	3.02 V	146	38.3	2.2

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.

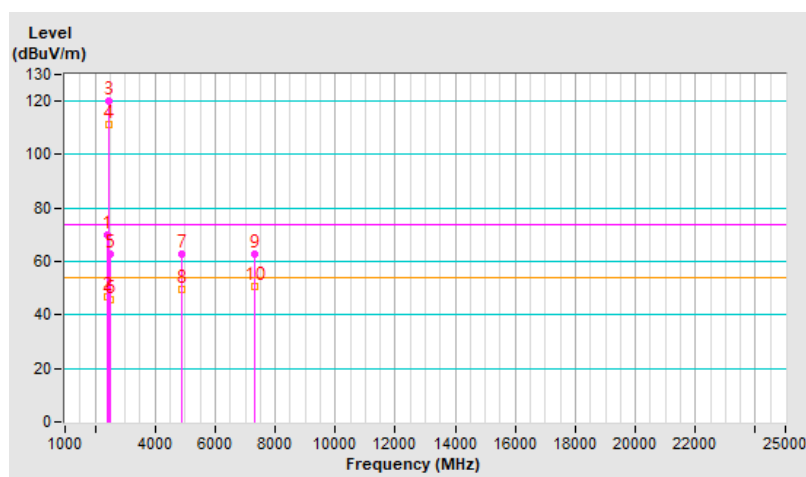


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	69.7 PK	74.0	-4.3	2.46 H	360	72.0	-2.3
2	2390.00	46.9 AV	54.0	-7.1	2.46 H	360	49.2	-2.3
3	*2437.00	120.2 PK			2.46 H	360	122.5	-2.3
4	*2437.00	111.2 AV			2.46 H	360	113.5	-2.3
5	2483.50	62.6 PK	74.0	-11.4	2.46 H	360	64.9	-2.3
6	2483.50	45.8 AV	54.0	-8.2	2.46 H	360	48.1	-2.3
7	4874.00	62.6 PK	74.0	-11.4	1.00 H	176	60.5	2.1
8	4874.00	49.8 AV	54.0	-4.2	1.00 H	176	47.7	2.1
9	7311.00	62.7 PK	74.0	-11.3	3.73 H	236	55.2	7.5
10	7311.00	50.9 AV	54.0	-3.1	3.73 H	236	43.4	7.5

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.

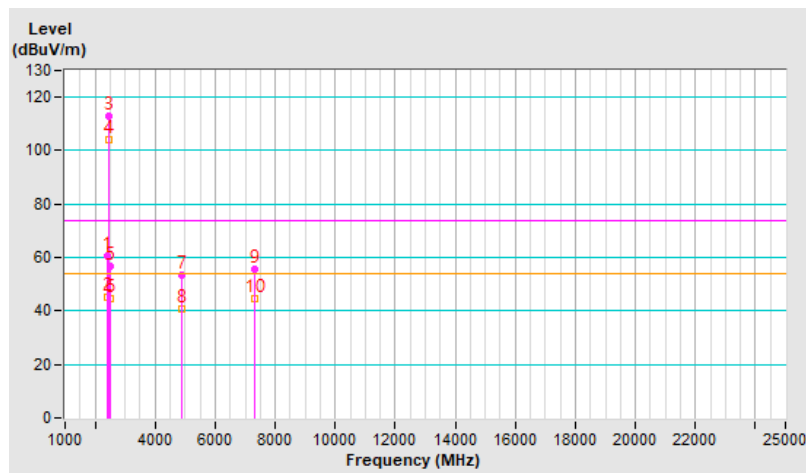


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	60.4 PK	74.0	-13.6	2.94 V	255	62.7	-2.3
2	2390.00	45.1 AV	54.0	-8.9	2.94 V	255	47.4	-2.3
3	*2437.00	112.9 PK			2.94 V	255	115.2	-2.3
4	*2437.00	104.3 AV			2.94 V	255	106.6	-2.3
5	2483.50	56.6 PK	74.0	-17.4	2.94 V	255	58.9	-2.3
6	2483.50	44.6 AV	54.0	-9.4	2.94 V	255	46.9	-2.3
7	4874.00	53.4 PK	74.0	-20.6	2.99 V	133	51.3	2.1
8	4874.00	40.6 AV	54.0	-13.4	2.99 V	133	38.5	2.1
9	7311.00	55.8 PK	74.0	-18.2	1.27 V	199	48.3	7.5
10	7311.00	44.5 AV	54.0	-9.5	1.27 V	199	37.0	7.5

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.

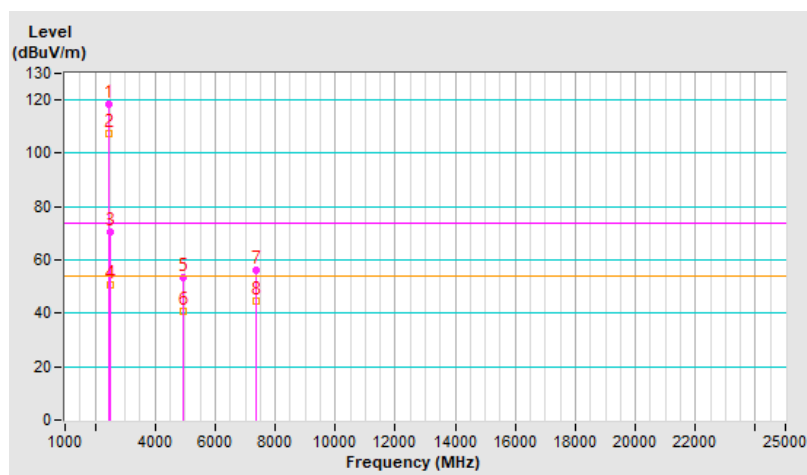


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	*2462.00	118.3 PK			2.36 H	360	120.5	-2.2
2	*2462.00	107.3 AV			2.36 H	360	109.5	-2.2
3	2483.50	70.7 PK	74.0	-3.3	2.36 H	360	73.0	-2.3
4	2483.50	50.8 AV	54.0	-3.2	2.36 H	360	53.1	-2.3
5	4924.00	53.6 PK	74.0	-20.4	1.00 H	186	51.5	2.1
6	4924.00	40.9 AV	54.0	-13.1	1.00 H	186	38.8	2.1
7	7386.00	56.1 PK	74.0	-17.9	3.81 H	231	48.0	8.1
8	7386.00	44.6 AV	54.0	-9.4	3.81 H	231	36.5	8.1

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.

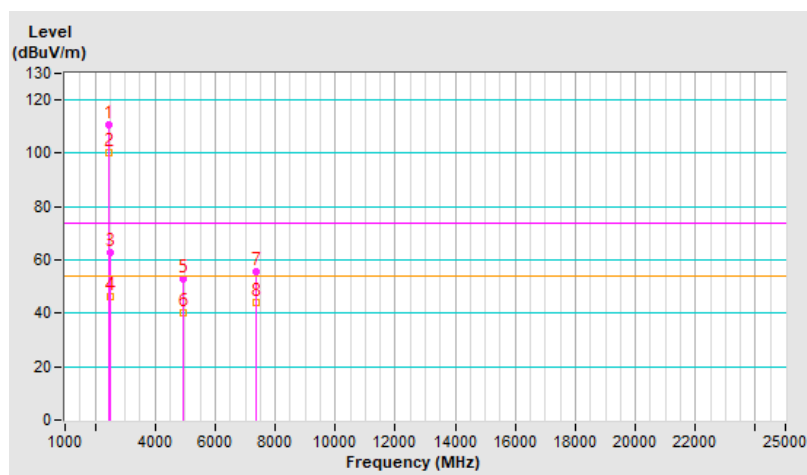


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	*2462.00	110.9 PK			3.60 V	306	113.1	-2.2
2	*2462.00	100.3 AV			3.60 V	306	102.5	-2.2
3	2483.50	62.6 PK	74.0	-11.4	3.60 V	306	64.9	-2.3
4	2483.50	46.4 AV	54.0	-7.6	3.60 V	306	48.7	-2.3
5	4924.00	53.0 PK	74.0	-21.0	3.02 V	137	50.9	2.1
6	4924.00	40.1 AV	54.0	-13.9	3.02 V	137	38.0	2.1
7	7386.00	55.6 PK	74.0	-18.4	1.31 V	191	47.5	8.1
8	7386.00	44.0 AV	54.0	-10.0	1.31 V	191	35.9	8.1

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.

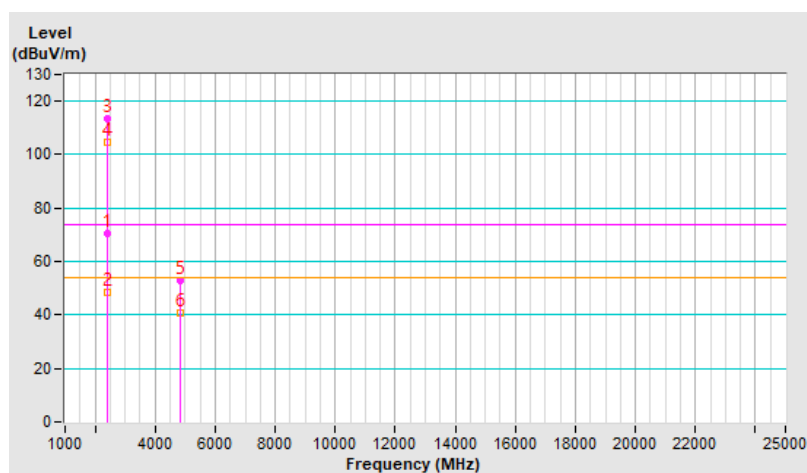


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	70.7 PK	74.0	-3.3	2.27 H	16	73.0	-2.3
2	2390.00	48.7 AV	54.0	-5.3	2.27 H	16	51.0	-2.3
3	*2412.00	113.4 PK			2.27 H	16	115.8	-2.4
4	*2412.00	104.7 AV			2.27 H	16	107.1	-2.4
5	4824.00	52.8 PK	74.0	-21.2	1.00 H	197	50.6	2.2
6	4824.00	40.5 AV	54.0	-13.5	1.00 H	197	38.3	2.2

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.

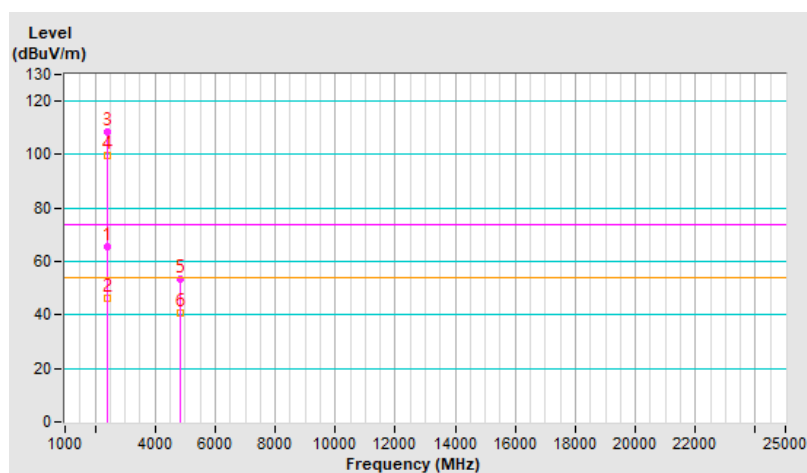


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	65.7 PK	74.0	-8.3	3.34 V	278	68.0	-2.3
2	2390.00	46.2 AV	54.0	-7.8	3.34 V	278	48.5	-2.3
3	*2412.00	108.7 PK			3.34 V	278	111.1	-2.4
4	*2412.00	99.9 AV			3.34 V	278	102.3	-2.4
5	4824.00	53.2 PK	74.0	-20.8	2.97 V	119	51.0	2.2
6	4824.00	40.5 AV	54.0	-13.5	2.97 V	119	38.3	2.2

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.

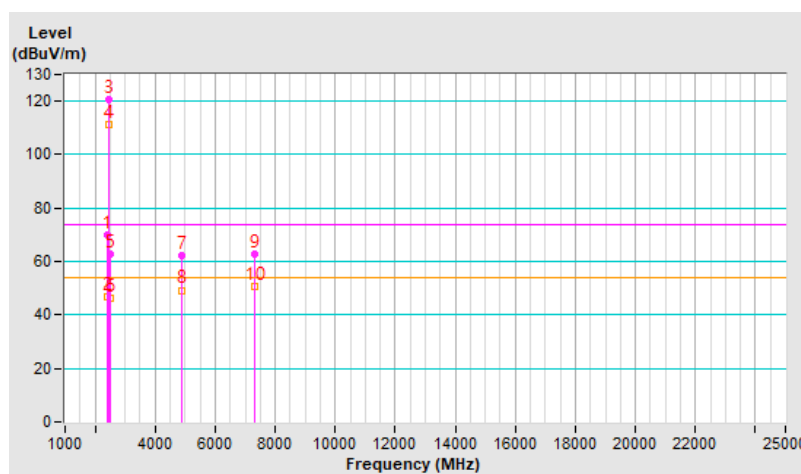


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	69.9 PK	74.0	-4.1	2.41 H	360	72.2	-2.3
2	2390.00	46.9 AV	54.0	-7.1	2.41 H	360	49.2	-2.3
3	*2437.00	120.4 PK			2.41 H	360	122.7	-2.3
4	*2437.00	111.3 AV			2.41 H	360	113.6	-2.3
5	2483.50	62.8 PK	74.0	-11.2	2.41 H	360	65.1	-2.3
6	2483.50	46.3 AV	54.0	-7.7	2.41 H	360	48.6	-2.3
7	4874.00	62.3 PK	74.0	-11.7	1.00 H	178	60.2	2.1
8	4874.00	49.3 AV	54.0	-4.7	1.00 H	178	47.2	2.1
9	7311.00	62.8 PK	74.0	-11.2	3.74 H	221	55.3	7.5
10	7311.00	50.7 AV	54.0	-3.3	3.74 H	221	43.2	7.5

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.

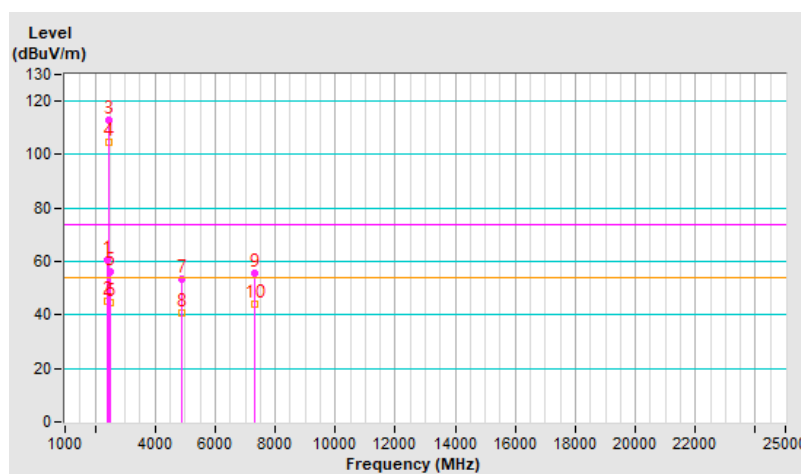


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	2390.00	60.8 PK	74.0	-13.2	2.91 V	248	63.1	-2.3
2	2390.00	45.4 AV	54.0	-8.6	2.91 V	248	47.7	-2.3
3	*2437.00	113.0 PK			2.91 V	248	115.3	-2.3
4	*2437.00	104.7 AV			2.91 V	248	107.0	-2.3
5	2483.50	56.3 PK	74.0	-17.7	2.91 V	248	58.6	-2.3
6	2483.50	44.6 AV	54.0	-9.4	2.91 V	248	46.9	-2.3
7	4874.00	53.4 PK	74.0	-20.6	2.98 V	137	51.3	2.1
8	4874.00	40.5 AV	54.0	-13.5	2.98 V	137	38.4	2.1
9	7311.00	55.6 PK	74.0	-18.4	1.23 V	198	48.1	7.5
10	7311.00	44.3 AV	54.0	-9.7	1.23 V	198	36.8	7.5

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.

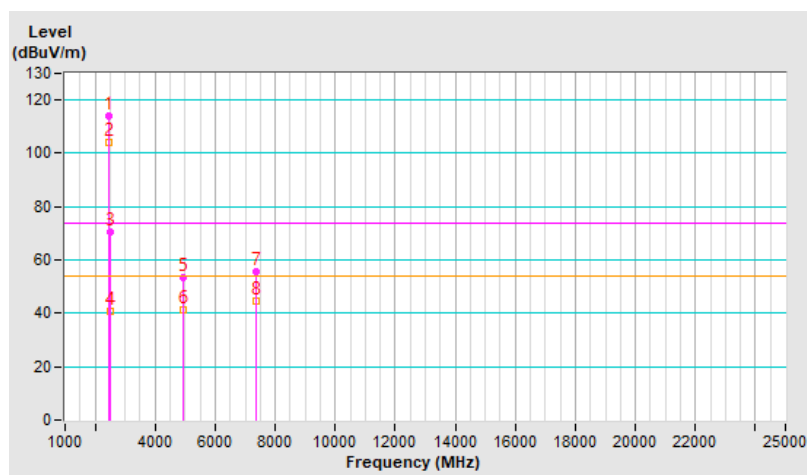


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	*2462.00	114.2 PK			1.45 H	14	116.4	-2.2
2	*2462.00	103.9 AV			1.45 H	14	106.1	-2.2
3	2483.50	70.6 PK	74.0	-3.4	1.45 H	14	72.9	-2.3
4	2483.50	40.6 AV	54.0	-13.4	1.45 H	14	42.9	-2.3
5	4924.00	53.6 PK	74.0	-20.4	1.01 H	190	51.5	2.1
6	4924.00	41.2 AV	54.0	-12.8	1.01 H	190	39.1	2.1
7	7386.00	55.6 PK	74.0	-18.4	3.85 H	225	47.5	8.1
8	7386.00	44.5 AV	54.0	-9.5	3.85 H	225	36.4	8.1

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.

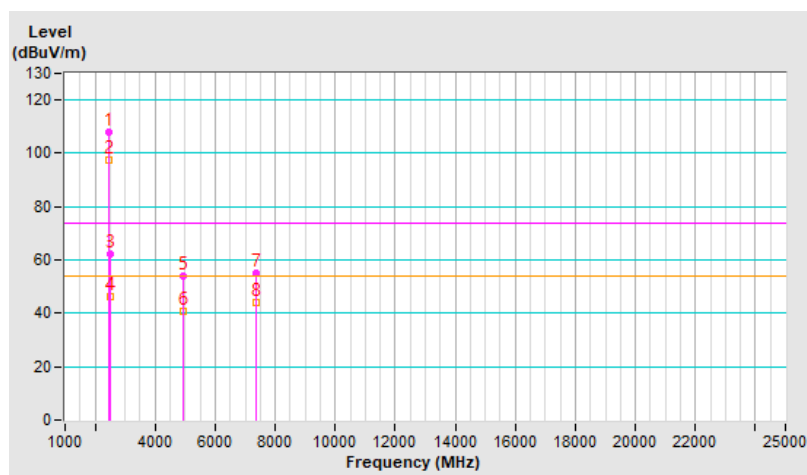


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

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	*2462.00	108.1 PK			3.60 V	276	110.3	-2.2
2	*2462.00	97.7 AV			3.60 V	276	99.9	-2.2
3	2483.50	62.4 PK	74.0	-11.6	3.60 V	276	64.7	-2.3
4	2483.50	46.3 AV	54.0	-7.7	3.60 V	276	48.6	-2.3
5	4924.00	53.8 PK	74.0	-20.2	3.03 V	126	51.7	2.1
6	4924.00	40.8 AV	54.0	-13.2	3.03 V	126	38.7	2.1
7	7386.00	55.1 PK	74.0	-18.9	1.32 V	185	47.0	8.1
8	7386.00	44.0 AV	54.0	-10.0	1.32 V	185	35.9	8.1

Remarks:

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



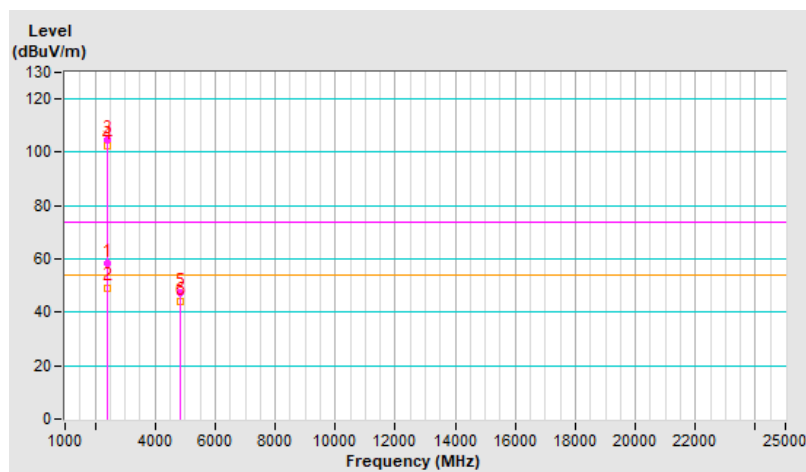
Mode B

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 (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% 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	2390.00	58.2 PK	74.0	-15.8	3.31 H	202	60.5	-2.3
2	2390.00	49.3 AV	54.0	-4.7	3.31 H	202	51.6	-2.3
3	*2412.00	104.8 PK			3.31 H	202	107.2	-2.4
4	*2412.00	102.5 AV			3.31 H	202	104.9	-2.4
5	4824.00	47.3 PK	74.0	-26.7	1.00 H	212	45.1	2.2
6	4824.00	44.2 AV	54.0	-9.8	1.00 H	212	42.0	2.2

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.

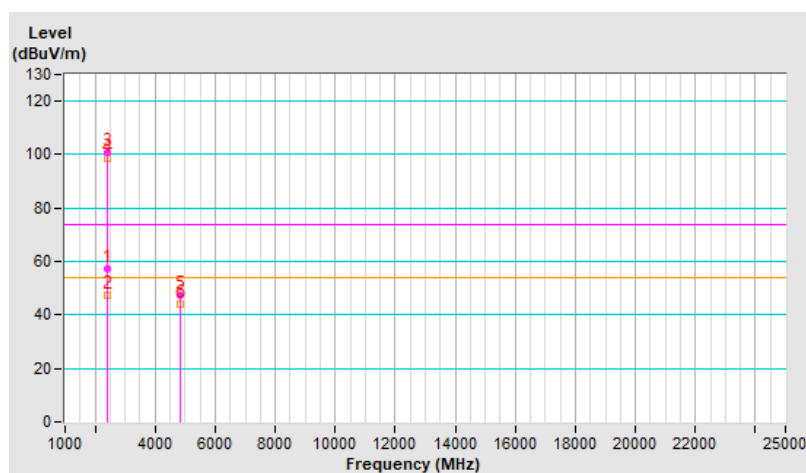


RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	57.3 PK	74.0	-16.7	2.10 V	27	59.6	-2.3
2	2390.00	47.2 AV	54.0	-6.8	2.10 V	27	49.5	-2.3
3	*2412.00	100.8 PK			2.10 V	27	103.2	-2.4
4	*2412.00	98.6 AV			2.10 V	27	101.0	-2.4
5	4824.00	47.5 PK	74.0	-26.5	1.01 V	222	45.3	2.2
6	4824.00	44.3 AV	54.0	-9.7	1.01 V	222	42.1	2.2

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.

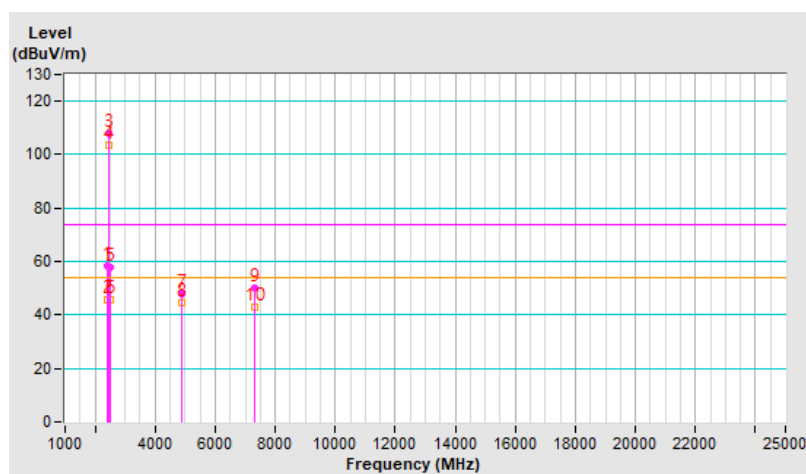


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	58.5 PK	74.0	-15.5	3.26 H	206	60.8	-2.3
2	2390.00	45.6 AV	54.0	-8.4	3.26 H	206	47.9	-2.3
3	*2437.00	107.8 PK			3.26 H	206	110.1	-2.3
4	*2437.00	103.5 AV			3.26 H	206	105.8	-2.3
5	2483.50	57.6 PK	74.0	-16.4	3.26 H	206	59.9	-2.3
6	2483.50	45.8 AV	54.0	-8.2	3.26 H	206	48.1	-2.3
7	4874.00	47.8 PK	74.0	-26.2	1.01 H	214	45.7	2.1
8	4874.00	44.6 AV	54.0	-9.4	1.01 H	214	42.5	2.1
9	7311.00	50.1 PK	74.0	-23.9	2.04 H	230	42.6	7.5
10	7311.00	42.8 AV	54.0	-11.2	2.04 H	230	35.3	7.5

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.

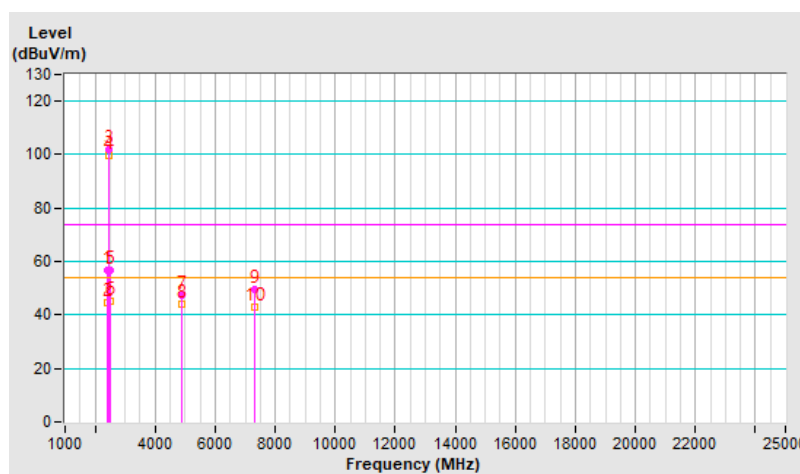


RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	56.7 PK	74.0	-17.3	2.65 V	25	59.0	-2.3
2	2390.00	44.8 AV	54.0	-9.2	2.65 V	25	47.1	-2.3
3	*2437.00	101.7 PK			2.65 V	25	104.0	-2.3
4	*2437.00	99.5 AV			2.65 V	25	101.8	-2.3
5	2483.50	56.6 PK	74.0	-17.4	2.65 V	25	58.9	-2.3
6	2483.50	45.0 AV	54.0	-9.0	2.65 V	25	47.3	-2.3
7	4874.00	47.2 PK	74.0	-26.8	1.02 V	210	45.1	2.1
8	4874.00	44.0 AV	54.0	-10.0	1.02 V	210	41.9	2.1
9	7311.00	49.6 PK	74.0	-24.4	2.03 V	274	42.1	7.5
10	7311.00	42.8 AV	54.0	-11.2	2.03 V	274	35.3	7.5

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.

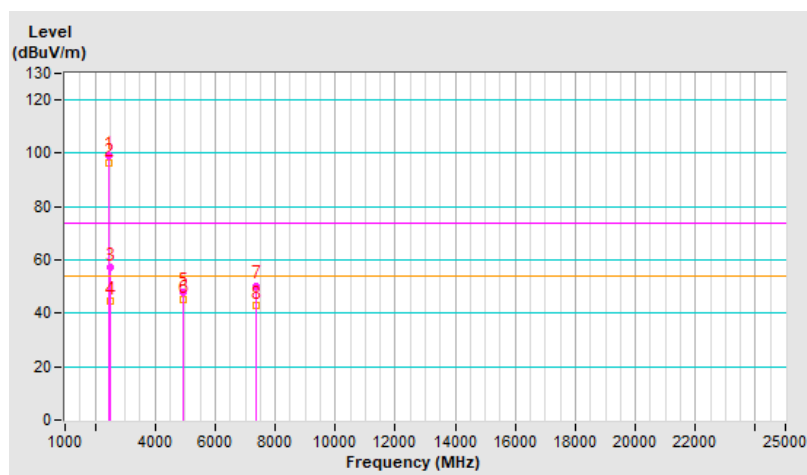


RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	*2462.00	98.9 PK			3.42 H	315	101.1	-2.2
2	*2462.00	96.6 AV			3.42 H	315	98.8	-2.2
3	2483.50	57.1 PK	74.0	-16.9	3.42 H	315	59.4	-2.3
4	2483.50	44.7 AV	54.0	-9.3	3.42 H	315	47.0	-2.3
5	4924.00	48.0 PK	74.0	-26.0	1.07 H	202	45.9	2.1
6	4924.00	44.9 AV	54.0	-9.1	1.07 H	202	42.8	2.1
7	7386.00	50.4 PK	74.0	-23.6	2.05 H	218	42.3	8.1
8	7386.00	42.8 AV	54.0	-11.2	2.05 H	218	34.7	8.1

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.

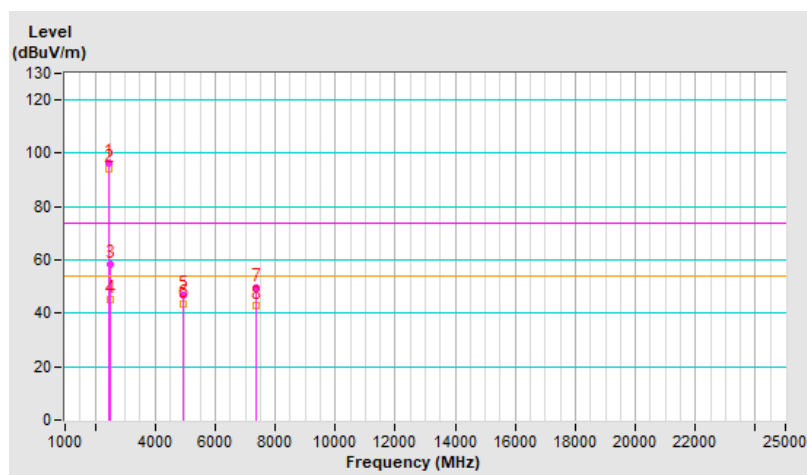


RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	*2462.00	96.4 PK			2.17 V	36	98.6	-2.2
2	*2462.00	94.1 AV			2.17 V	36	96.3	-2.2
3	2483.50	58.4 PK	74.0	-15.6	2.17 V	36	60.7	-2.3
4	2483.50	44.9 AV	54.0	-9.1	2.17 V	36	47.2	-2.3
5	4924.00	46.8 PK	74.0	-27.2	1.02 V	223	44.7	2.1
6	4924.00	43.7 AV	54.0	-10.3	1.02 V	223	41.6	2.1
7	7386.00	49.8 PK	74.0	-24.2	2.06 V	252	41.7	8.1
8	7386.00	43.1 AV	54.0	-10.9	2.06 V	252	35.0	8.1

Remarks:

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

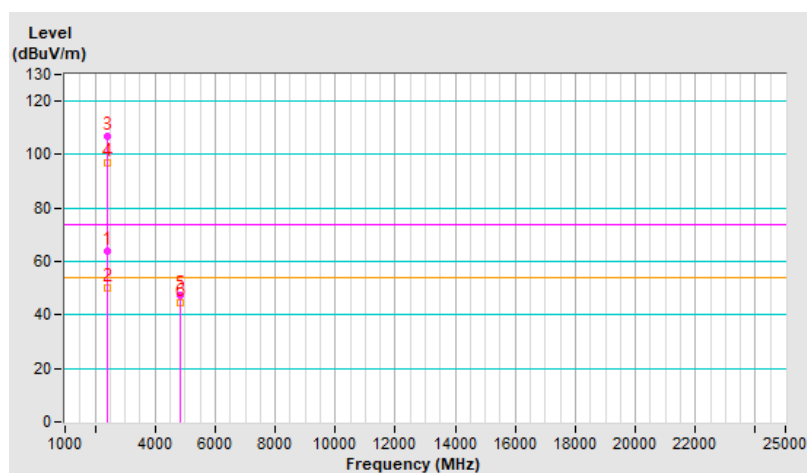


RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	64.0 PK	74.0	-10.0	3.33 H	207	66.3	-2.3
2	2390.00	50.0 AV	54.0	-4.0	3.33 H	207	52.3	-2.3
3	*2412.00	106.8 PK			3.33 H	207	109.2	-2.4
4	*2412.00	96.8 AV			3.33 H	207	99.2	-2.4
5	4824.00	47.4 PK	74.0	-26.6	1.03 H	207	45.2	2.2
6	4824.00	44.5 AV	54.0	-9.5	1.03 H	207	42.3	2.2

Remarks:

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

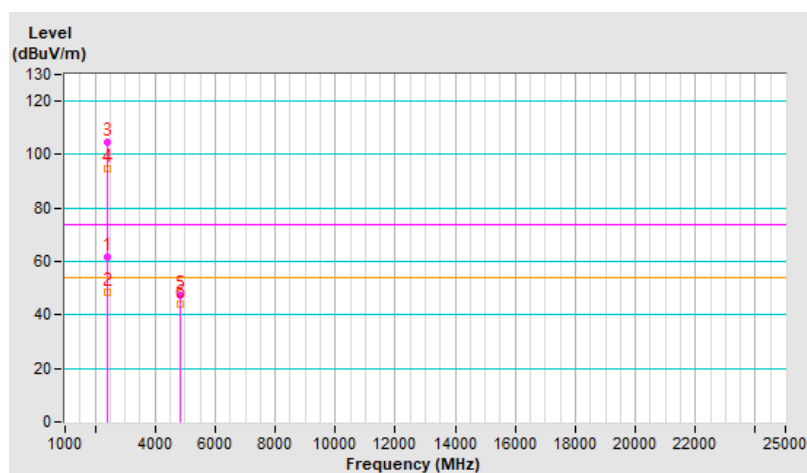


RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	61.5 PK	74.0	-12.5	2.12 V	32	63.8	-2.3
2	2390.00	48.5 AV	54.0	-5.5	2.12 V	32	50.8	-2.3
3	*2412.00	104.7 PK			2.12 V	32	107.1	-2.4
4	*2412.00	94.9 AV			2.12 V	32	97.3	-2.4
5	4824.00	47.2 PK	74.0	-26.8	1.06 V	210	45.0	2.2
6	4824.00	44.1 AV	54.0	-9.9	1.06 V	210	41.9	2.2

Remarks:

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

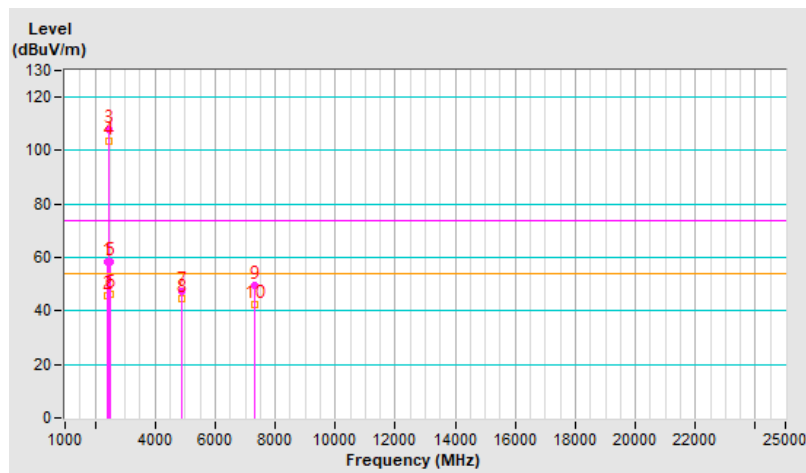


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	58.6 PK	74.0	-15.4	3.26 H	208	60.9	-2.3
2	2390.00	45.7 AV	54.0	-8.3	3.26 H	208	48.0	-2.3
3	*2437.00	108.0 PK			3.26 H	208	110.3	-2.3
4	*2437.00	103.7 AV			3.26 H	208	106.0	-2.3
5	2483.50	58.4 PK	74.0	-15.6	3.26 H	208	60.7	-2.3
6	2483.50	46.3 AV	54.0	-7.7	3.26 H	208	48.6	-2.3
7	4874.00	47.6 PK	74.0	-26.4	1.00 H	223	45.5	2.1
8	4874.00	44.5 AV	54.0	-9.5	1.00 H	223	42.4	2.1
9	7311.00	49.8 PK	74.0	-24.2	2.04 H	231	42.3	7.5
10	7311.00	42.6 AV	54.0	-11.4	2.04 H	231	35.1	7.5

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.

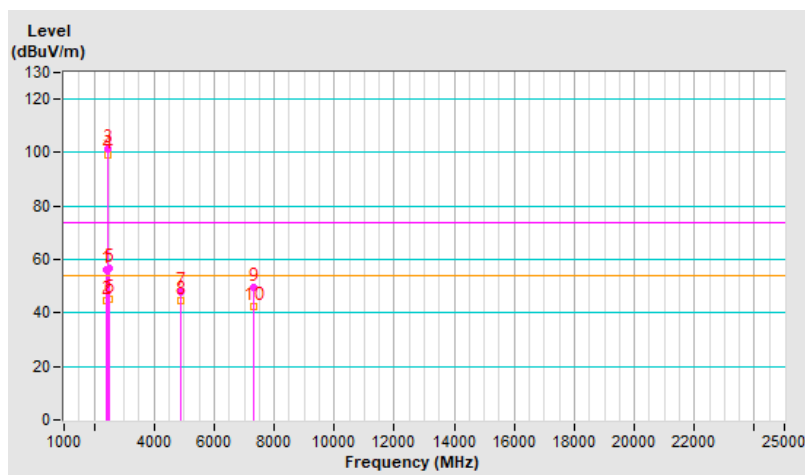


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	56.4 PK	74.0	-17.6	2.62 V	26	58.7	-2.3
2	2390.00	44.4 AV	54.0	-9.6	2.62 V	26	46.7	-2.3
3	*2437.00	101.3 PK			2.62 V	26	103.6	-2.3
4	*2437.00	99.2 AV			2.62 V	26	101.5	-2.3
5	2483.50	56.6 PK	74.0	-17.4	2.62 V	26	58.9	-2.3
6	2483.50	45.2 AV	54.0	-8.8	2.62 V	26	47.5	-2.3
7	4874.00	47.9 PK	74.0	-26.1	1.01 V	203	45.8	2.1
8	4874.00	44.5 AV	54.0	-9.5	1.01 V	203	42.4	2.1
9	7311.00	49.4 PK	74.0	-24.6	2.00 V	248	41.9	7.5
10	7311.00	42.4 AV	54.0	-11.6	2.00 V	248	34.9	7.5

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.

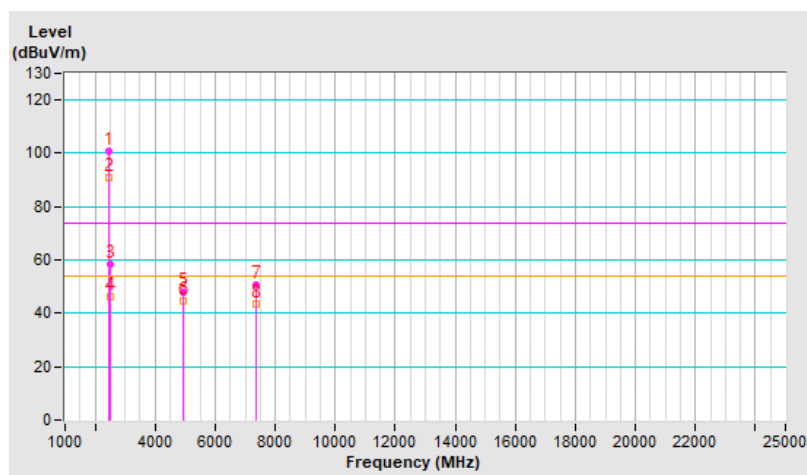


RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	*2462.00	101.0 PK			3.42 H	312	103.2	-2.2
2	*2462.00	91.1 AV			3.42 H	312	93.3	-2.2
3	2483.50	58.5 PK	74.0	-15.5	3.42 H	312	60.8	-2.3
4	2483.50	46.3 AV	54.0	-7.7	3.42 H	312	48.6	-2.3
5	4924.00	47.9 PK	74.0	-26.1	1.00 H	206	45.8	2.1
6	4924.00	44.7 AV	54.0	-9.3	1.00 H	206	42.6	2.1
7	7386.00	50.7 PK	74.0	-23.3	2.02 H	222	42.6	8.1
8	7386.00	43.3 AV	54.0	-10.7	2.02 H	222	35.2	8.1

Remarks:

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

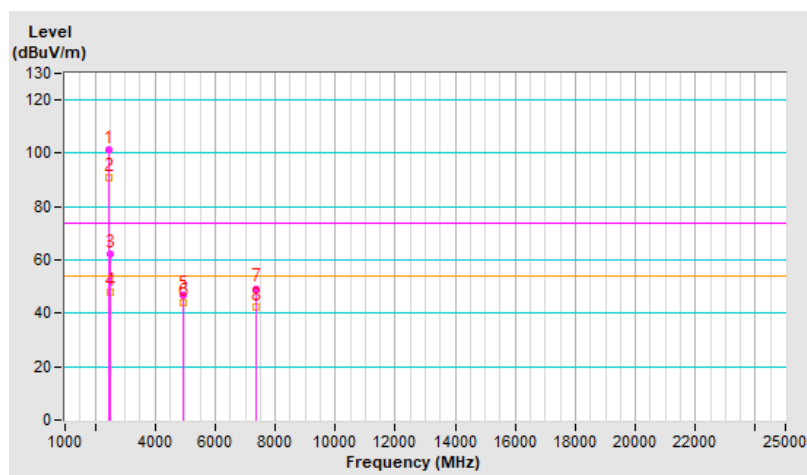


RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	*2462.00	101.3 PK			2.15 V	38	103.5	-2.2
2	*2462.00	91.1 AV			2.15 V	38	93.3	-2.2
3	2483.50	62.1 PK	74.0	-11.9	2.15 V	38	64.4	-2.3
4	2483.50	48.0 AV	54.0	-6.0	2.15 V	38	50.3	-2.3
5	4924.00	46.9 PK	74.0	-27.1	1.03 V	212	44.8	2.1
6	4924.00	43.9 AV	54.0	-10.1	1.03 V	212	41.8	2.1
7	7386.00	49.3 PK	74.0	-24.7	2.04 V	263	41.2	8.1
8	7386.00	42.5 AV	54.0	-11.5	2.04 V	263	34.4	8.1

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.

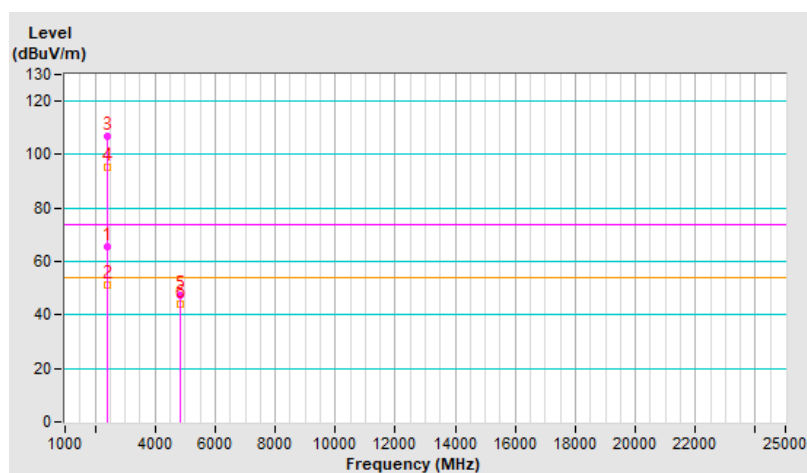


RF Mode	802.11ax (HE20)	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	65.4 PK	74.0	-8.6	3.30 H	205	67.7	-2.3
2	2390.00	51.0 AV	54.0	-3.0	3.30 H	205	53.3	-2.3
3	*2412.00	106.6 PK			3.30 H	205	109.0	-2.4
4	*2412.00	95.5 AV			3.30 H	205	97.9	-2.4
5	4824.00	47.2 PK	74.0	-26.8	1.00 H	218	45.0	2.2
6	4824.00	44.2 AV	54.0	-9.8	1.00 H	218	42.0	2.2

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.

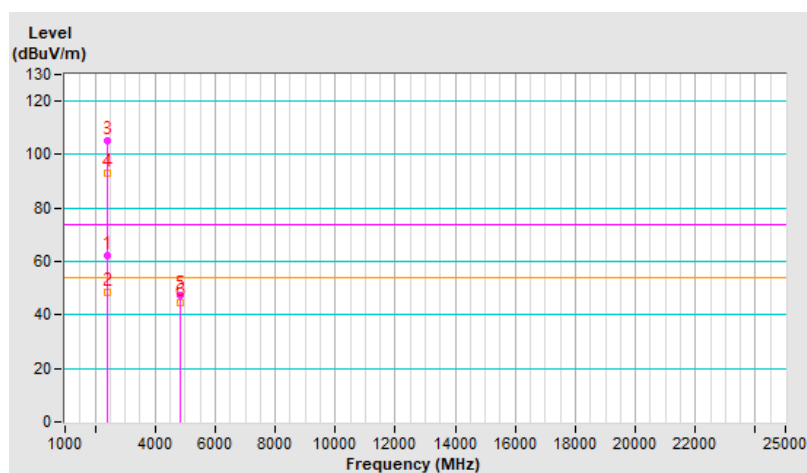


RF Mode	802.11ax (HE20)	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	62.3 PK	74.0	-11.7	2.08 V	26	64.6	-2.3
2	2390.00	48.6 AV	54.0	-5.4	2.08 V	26	50.9	-2.3
3	*2412.00	105.3 PK			2.08 V	26	107.7	-2.4
4	*2412.00	93.3 AV			2.08 V	26	95.7	-2.4
5	4824.00	47.4 PK	74.0	-26.6	1.06 V	202	45.2	2.2
6	4824.00	44.5 AV	54.0	-9.5	1.06 V	202	42.3	2.2

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.

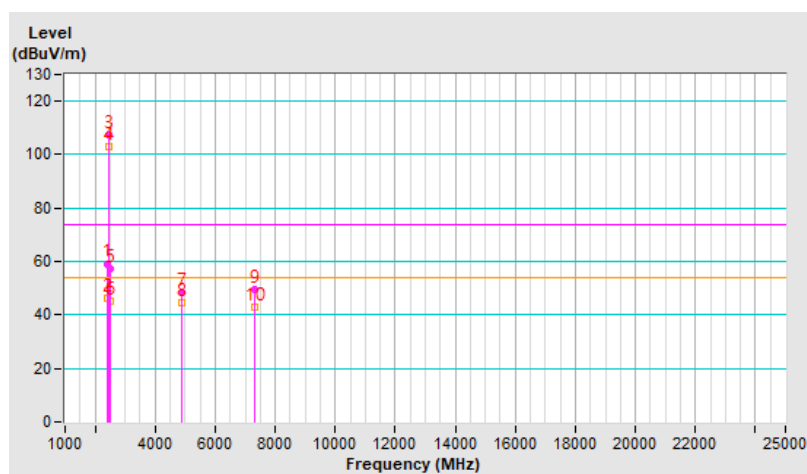


RF Mode	802.11ax (HE20)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	59.2 PK	74.0	-14.8	3.28 H	202	61.5	-2.3
2	2390.00	46.0 AV	54.0	-8.0	3.28 H	202	48.3	-2.3
3	*2437.00	107.6 PK			3.28 H	202	109.9	-2.3
4	*2437.00	103.2 AV			3.28 H	202	105.5	-2.3
5	2483.50	57.3 PK	74.0	-16.7	3.28 H	202	59.6	-2.3
6	2483.50	45.4 AV	54.0	-8.6	3.28 H	202	47.7	-2.3
7	4874.00	48.3 PK	74.0	-25.7	1.00 H	214	46.2	2.1
8	4874.00	44.8 AV	54.0	-9.2	1.00 H	214	42.7	2.1
9	7311.00	49.6 PK	74.0	-24.4	2.11 H	231	42.1	7.5
10	7311.00	42.8 AV	54.0	-11.2	2.11 H	231	35.3	7.5

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.

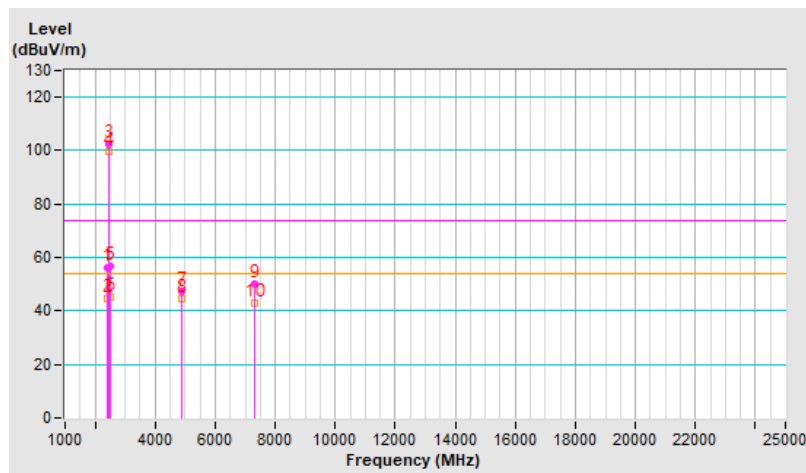


RF Mode	802.11ax (HE20)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	56.4 PK	74.0	-17.6	2.65 V	38	58.7	-2.3
2	2390.00	44.7 AV	54.0	-9.3	2.65 V	38	47.0	-2.3
3	*2437.00	102.2 PK			2.65 V	38	104.5	-2.3
4	*2437.00	99.9 AV			2.65 V	38	102.2	-2.3
5	2483.50	56.7 PK	74.0	-17.3	2.65 V	38	59.0	-2.3
6	2483.50	44.9 AV	54.0	-9.1	2.65 V	38	47.2	-2.3
7	4874.00	47.6 PK	74.0	-26.4	1.00 V	216	45.5	2.1
8	4874.00	44.7 AV	54.0	-9.3	1.00 V	216	42.6	2.1
9	7311.00	50.1 PK	74.0	-23.9	1.97 V	256	42.6	7.5
10	7311.00	42.9 AV	54.0	-11.1	1.97 V	256	35.4	7.5

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.

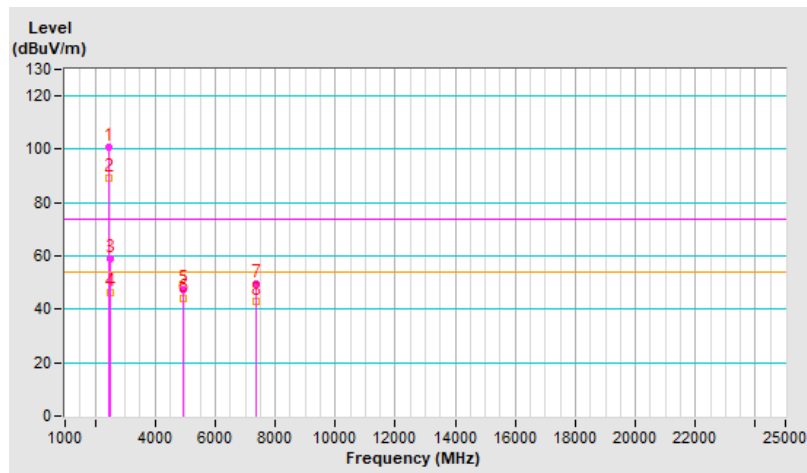


RF Mode	802.11ax (HE20)	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	*2462.00	100.6 PK			3.42 H	314	102.8	-2.2
2	*2462.00	89.4 AV			3.42 H	314	91.6	-2.2
3	2483.50	58.7 PK	74.0	-15.3	3.42 H	314	61.0	-2.3
4	2483.50	46.1 AV	54.0	-7.9	3.42 H	314	48.4	-2.3
5	4924.00	47.3 PK	74.0	-26.7	1.00 H	209	45.2	2.1
6	4924.00	44.2 AV	54.0	-9.8	1.00 H	209	42.1	2.1
7	7386.00	49.6 PK	74.0	-24.4	2.01 H	259	41.5	8.1
8	7386.00	42.7 AV	54.0	-11.3	2.01 H	259	34.6	8.1

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.

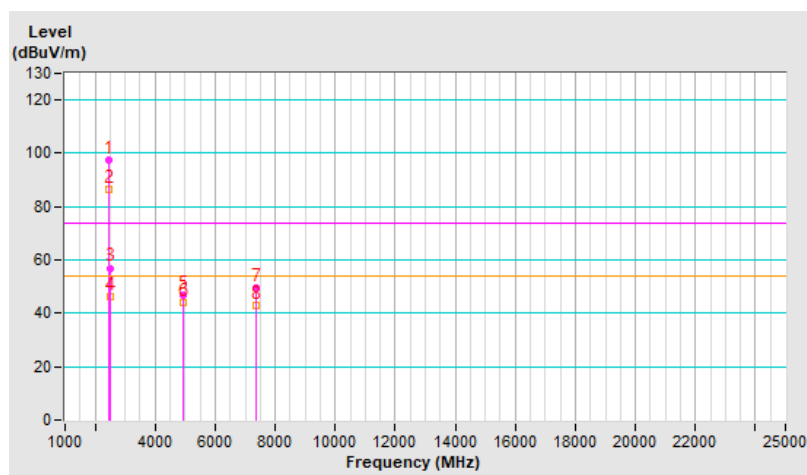


RF Mode	802.11ax (HE20)	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	*2462.00	97.4 PK			2.16 V	35	99.6	-2.2
2	*2462.00	86.3 AV			2.16 V	35	88.5	-2.2
3	2483.50	57.0 PK	74.0	-17.0	2.16 V	35	59.3	-2.3
4	2483.50	46.1 AV	54.0	-7.9	2.16 V	35	48.4	-2.3
5	4924.00	46.9 PK	74.0	-27.1	1.04 V	198	44.8	2.1
6	4924.00	43.8 AV	54.0	-10.2	1.04 V	198	41.7	2.1
7	7386.00	49.6 PK	74.0	-24.4	1.98 V	275	41.5	8.1
8	7386.00	42.9 AV	54.0	-11.1	1.98 V	275	34.8	8.1

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.

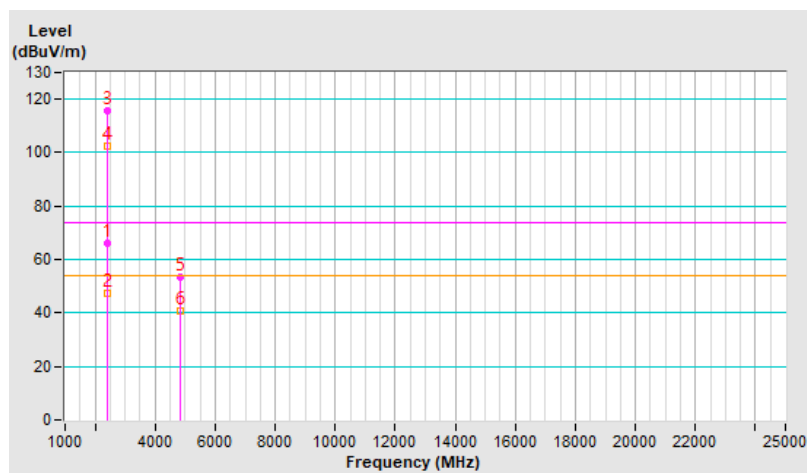


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	65.9 PK	74.0	-8.1	3.34 H	338	68.2	-2.3
2	2390.00	47.2 AV	54.0	-6.8	3.34 H	338	49.5	-2.3
3	*2412.00	115.8 PK			3.34 H	338	118.2	-2.4
4	*2412.00	102.5 AV			3.34 H	338	104.9	-2.4
5	4824.00	53.3 PK	74.0	-20.7	3.02 H	122	51.1	2.2
6	4824.00	40.8 AV	54.0	-13.2	3.02 H	122	38.6	2.2

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.

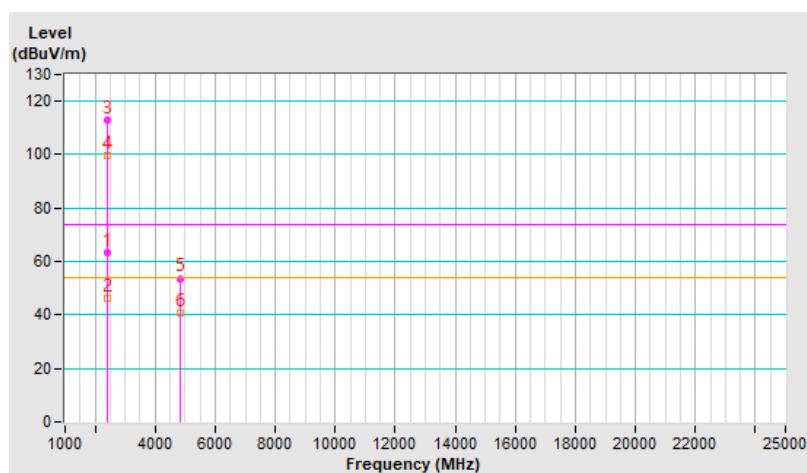


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	63.2 PK	74.0	-10.8	2.84 V	23	65.5	-2.3
2	2390.00	46.5 AV	54.0	-7.5	2.84 V	23	48.8	-2.3
3	*2412.00	112.8 PK			2.84 V	23	115.2	-2.4
4	*2412.00	99.5 AV			2.84 V	23	101.9	-2.4
5	4824.00	53.7 PK	74.0	-20.3	2.95 V	125	51.5	2.2
6	4824.00	40.7 AV	54.0	-13.3	2.95 V	125	38.5	2.2

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.

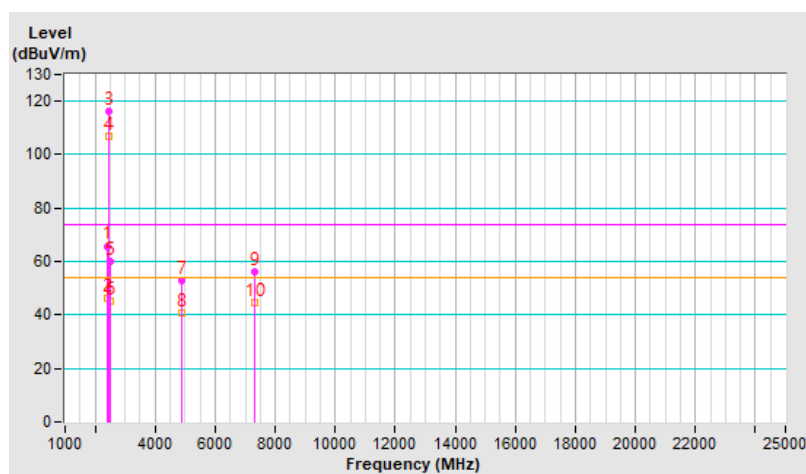


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	65.8 PK	74.0	-8.2	3.18 H	333	68.1	-2.3
2	2390.00	46.1 AV	54.0	-7.9	3.18 H	333	48.4	-2.3
3	*2437.00	116.3 PK			3.18 H	333	118.6	-2.3
4	*2437.00	106.9 AV			3.18 H	333	109.2	-2.3
5	2483.50	59.8 PK	74.0	-14.2	3.18 H	333	62.1	-2.3
6	2483.50	45.2 AV	54.0	-8.8	3.18 H	333	47.5	-2.3
7	4874.00	52.8 PK	74.0	-21.2	2.99 H	128	50.7	2.1
8	4874.00	40.6 AV	54.0	-13.4	2.99 H	128	38.5	2.1
9	7311.00	56.1 PK	74.0	-17.9	1.36 H	201	48.6	7.5
10	7311.00	44.8 AV	54.0	-9.2	1.36 H	201	37.3	7.5

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.

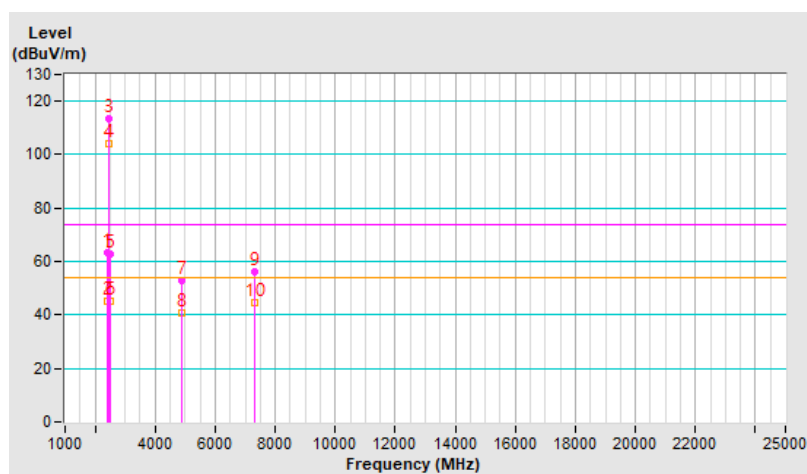


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	63.2 PK	74.0	-10.8	2.81 V	33	65.5	-2.3
2	2390.00	45.2 AV	54.0	-8.8	2.81 V	33	47.5	-2.3
3	*2437.00	113.6 PK			2.81 V	33	115.9	-2.3
4	*2437.00	104.3 AV			2.81 V	33	106.6	-2.3
5	2483.50	62.9 PK	74.0	-11.1	2.81 V	33	65.2	-2.3
6	2483.50	45.3 AV	54.0	-8.7	2.81 V	33	47.6	-2.3
7	4874.00	53.0 PK	74.0	-21.0	3.02 V	142	50.9	2.1
8	4874.00	40.5 AV	54.0	-13.5	3.02 V	142	38.4	2.1
9	7311.00	56.1 PK	74.0	-17.9	1.32 V	197	48.6	7.5
10	7311.00	44.7 AV	54.0	-9.3	1.32 V	197	37.2	7.5

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.

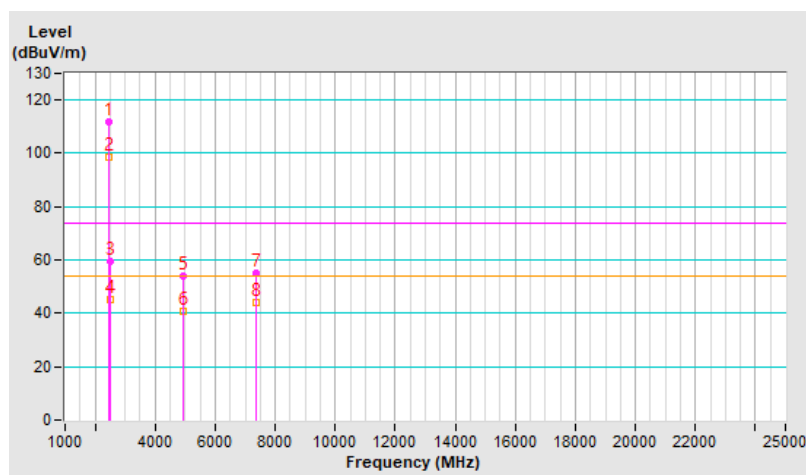


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	*2462.00	112.0 PK			3.13 H	206	114.2	-2.2
2	*2462.00	98.7 AV			3.13 H	206	100.9	-2.2
3	2483.50	59.7 PK	74.0	-14.3	3.13 H	206	62.0	-2.3
4	2483.50	45.1 AV	54.0	-8.9	3.13 H	206	47.4	-2.3
5	4924.00	54.1 PK	74.0	-19.9	3.04 H	128	52.0	2.1
6	4924.00	40.9 AV	54.0	-13.1	3.04 H	128	38.8	2.1
7	7386.00	55.2 PK	74.0	-18.8	1.23 H	165	47.1	8.1
8	7386.00	44.0 AV	54.0	-10.0	1.23 H	165	35.9	8.1

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.

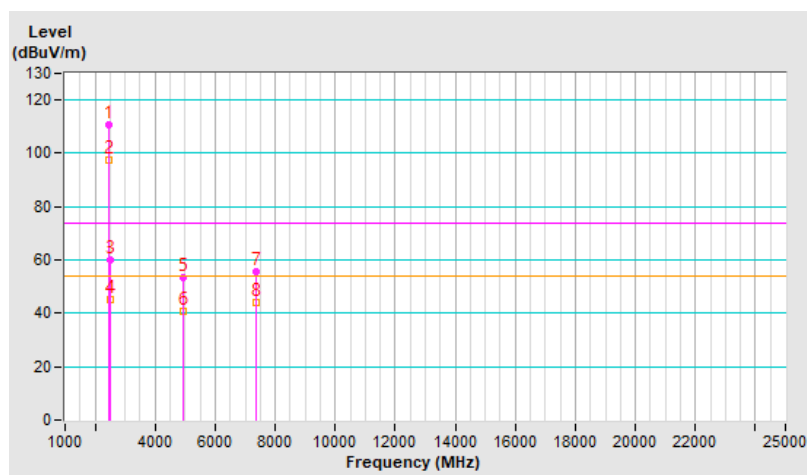


RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	*2462.00	110.6 PK			2.52 V	31	112.8	-2.2
2	*2462.00	97.4 AV			2.52 V	31	99.6	-2.2
3	2483.50	59.8 PK	74.0	-14.2	2.52 V	31	62.1	-2.3
4	2483.50	45.1 AV	54.0	-8.9	2.52 V	31	47.4	-2.3
5	4924.00	53.4 PK	74.0	-20.6	3.02 V	139	51.3	2.1
6	4924.00	40.5 AV	54.0	-13.5	3.02 V	139	38.4	2.1
7	7386.00	55.4 PK	74.0	-18.6	1.27 V	172	47.3	8.1
8	7386.00	44.1 AV	54.0	-9.9	1.27 V	172	36.0	8.1

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.

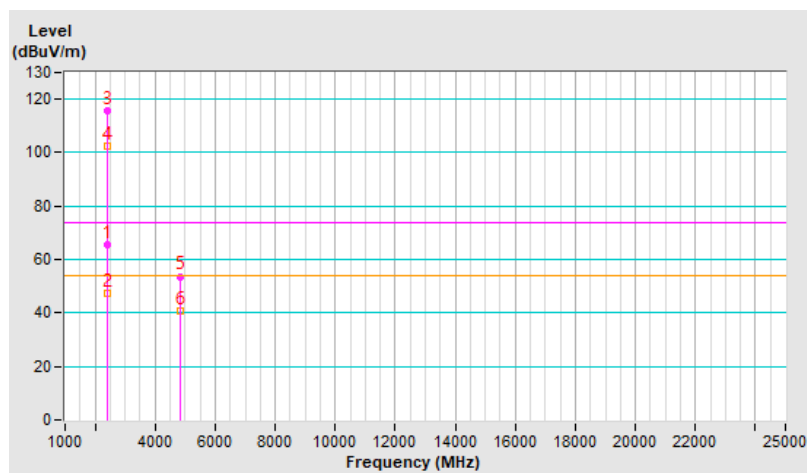


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	65.4 PK	74.0	-8.6	3.32 H	340	67.7	-2.3
2	2390.00	47.4 AV	54.0	-6.6	3.32 H	340	49.7	-2.3
3	*2412.00	115.9 PK			3.32 H	340	118.3	-2.4
4	*2412.00	102.6 AV			3.32 H	340	105.0	-2.4
5	4824.00	53.7 PK	74.0	-20.3	3.00 H	113	51.5	2.2
6	4824.00	40.8 AV	54.0	-13.2	3.00 H	113	38.6	2.2

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.

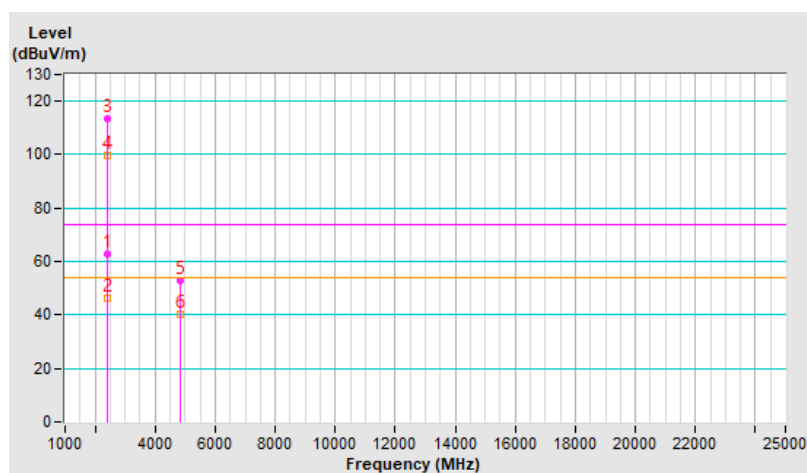


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	62.9 PK	74.0	-11.1	2.82 V	23	65.2	-2.3
2	2390.00	46.5 AV	54.0	-7.5	2.82 V	23	48.8	-2.3
3	*2412.00	113.2 PK			2.82 V	23	115.6	-2.4
4	*2412.00	99.9 AV			2.82 V	23	102.3	-2.4
5	4824.00	53.1 PK	74.0	-20.9	2.92 V	116	50.9	2.2
6	4824.00	40.3 AV	54.0	-13.7	2.92 V	116	38.1	2.2

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.

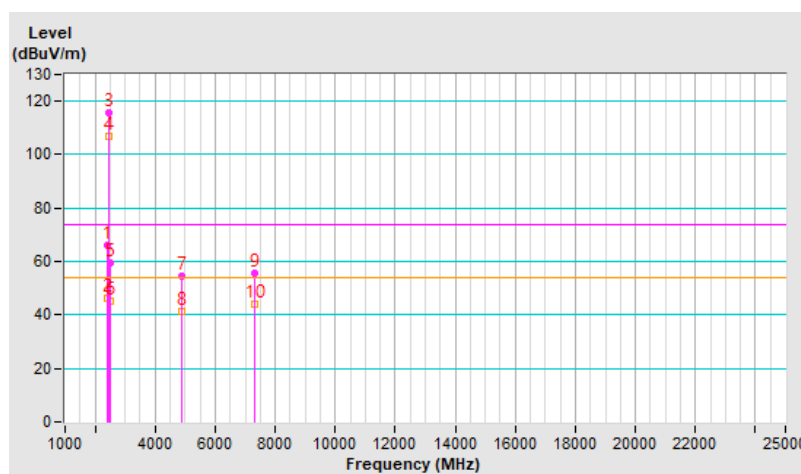


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	65.9 PK	74.0	-8.1	3.12 H	324	68.2	-2.3
2	2390.00	46.5 AV	54.0	-7.5	3.12 H	324	48.8	-2.3
3	*2437.00	115.8 PK			3.12 H	324	118.1	-2.3
4	*2437.00	106.6 AV			3.12 H	324	108.9	-2.3
5	2483.50	59.4 PK	74.0	-14.6	3.12 H	324	61.7	-2.3
6	2483.50	45.1 AV	54.0	-8.9	3.12 H	324	47.4	-2.3
7	4874.00	54.6 PK	74.0	-19.4	3.03 H	140	52.5	2.1
8	4874.00	41.2 AV	54.0	-12.8	3.03 H	140	39.1	2.1
9	7311.00	55.5 PK	74.0	-18.5	1.21 H	153	48.0	7.5
10	7311.00	44.1 AV	54.0	-9.9	1.21 H	153	36.6	7.5

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.

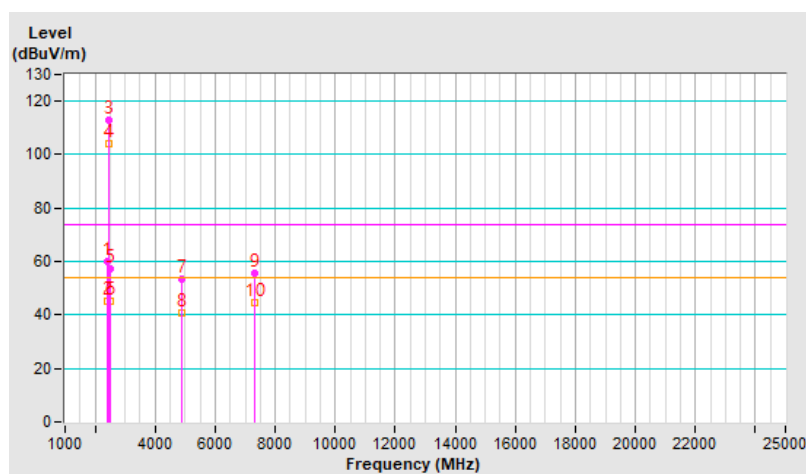


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	60.1 PK	74.0	-13.9	2.84 V	15	62.4	-2.3
2	2390.00	45.0 AV	54.0	-9.0	2.84 V	15	47.3	-2.3
3	*2437.00	112.8 PK			2.84 V	15	115.1	-2.3
4	*2437.00	103.9 AV			2.84 V	15	106.2	-2.3
5	2483.50	57.2 PK	74.0	-16.8	2.84 V	15	59.5	-2.3
6	2483.50	45.1 AV	54.0	-8.9	2.84 V	15	47.4	-2.3
7	4874.00	53.5 PK	74.0	-20.5	3.01 V	126	51.4	2.1
8	4874.00	40.6 AV	54.0	-13.4	3.01 V	126	38.5	2.1
9	7311.00	55.7 PK	74.0	-18.3	1.22 V	179	48.2	7.5
10	7311.00	44.5 AV	54.0	-9.5	1.22 V	179	37.0	7.5

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.

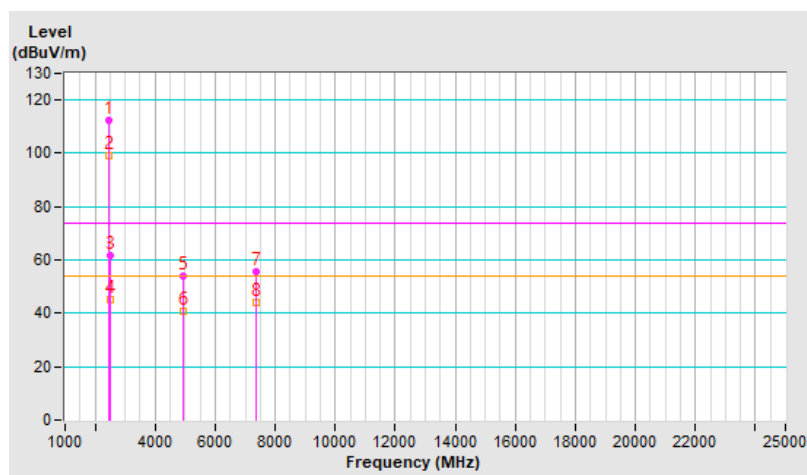


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	*2462.00	112.3 PK			3.13 H	205	114.5	-2.2
2	*2462.00	98.9 AV			3.13 H	205	101.1	-2.2
3	2483.50	61.8 PK	74.0	-12.2	3.13 H	205	64.1	-2.3
4	2483.50	45.3 AV	54.0	-8.7	3.13 H	205	47.6	-2.3
5	4924.00	54.2 PK	74.0	-19.8	3.02 H	128	52.1	2.1
6	4924.00	40.8 AV	54.0	-13.2	3.02 H	128	38.7	2.1
7	7386.00	55.6 PK	74.0	-18.4	1.24 H	153	47.5	8.1
8	7386.00	44.2 AV	54.0	-9.8	1.24 H	153	36.1	8.1

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.

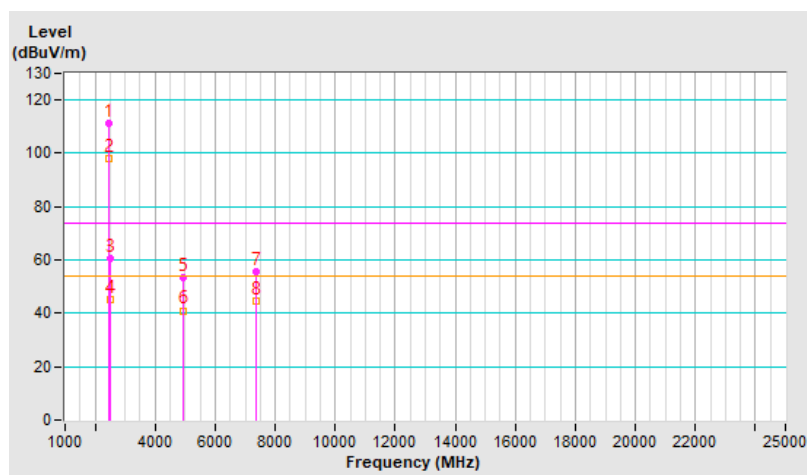


RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	*2462.00	111.1 PK			2.52 V	33	113.3	-2.2
2	*2462.00	97.9 AV			2.52 V	33	100.1	-2.2
3	2483.50	60.5 PK	74.0	-13.5	2.52 V	33	62.8	-2.3
4	2483.50	45.2 AV	54.0	-8.8	2.52 V	33	47.5	-2.3
5	4924.00	53.5 PK	74.0	-20.5	2.98 V	128	51.4	2.1
6	4924.00	41.0 AV	54.0	-13.0	2.98 V	128	38.9	2.1
7	7386.00	55.5 PK	74.0	-18.5	1.22 V	190	47.4	8.1
8	7386.00	44.4 AV	54.0	-9.6	1.22 V	190	36.3	8.1

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.

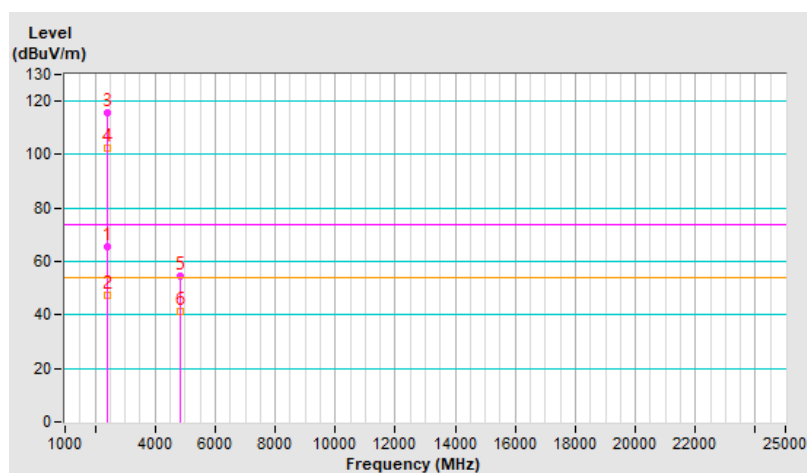


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	65.7 PK	74.0	-8.3	3.33 H	336	68.0	-2.3
2	2390.00	47.4 AV	54.0	-6.6	3.33 H	336	49.7	-2.3
3	*2412.00	115.8 PK			3.33 H	336	118.2	-2.4
4	*2412.00	102.6 AV			3.33 H	336	105.0	-2.4
5	4824.00	54.4 PK	74.0	-19.6	3.09 H	141	52.2	2.2
6	4824.00	41.3 AV	54.0	-12.7	3.09 H	141	39.1	2.2

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.

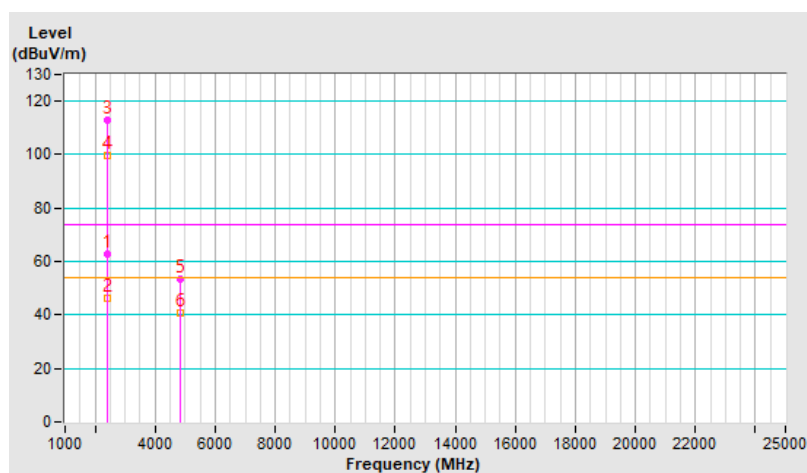


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	62.7 PK	74.0	-11.3	2.83 V	22	65.0	-2.3
2	2390.00	46.5 AV	54.0	-7.5	2.83 V	22	48.8	-2.3
3	*2412.00	113.1 PK			2.83 V	22	115.5	-2.4
4	*2412.00	99.8 AV			2.83 V	22	102.2	-2.4
5	4824.00	53.5 PK	74.0	-20.5	2.97 V	119	51.3	2.2
6	4824.00	40.7 AV	54.0	-13.3	2.97 V	119	38.5	2.2

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.

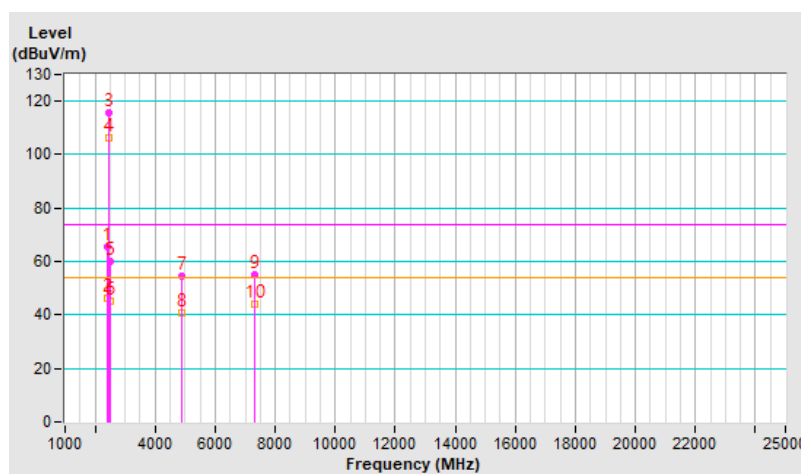


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	65.7 PK	74.0	-8.3	3.19 H	337	68.0	-2.3
2	2390.00	46.2 AV	54.0	-7.8	3.19 H	337	48.5	-2.3
3	*2437.00	115.7 PK			3.19 H	337	118.0	-2.3
4	*2437.00	106.4 AV			3.19 H	337	108.7	-2.3
5	2483.50	60.0 PK	74.0	-14.0	3.19 H	337	62.3	-2.3
6	2483.50	45.2 AV	54.0	-8.8	3.19 H	337	47.5	-2.3
7	4874.00	54.3 PK	74.0	-19.7	3.03 H	131	52.2	2.1
8	4874.00	40.9 AV	54.0	-13.1	3.03 H	131	38.8	2.1
9	7311.00	54.9 PK	74.0	-19.1	1.24 H	159	47.4	7.5
10	7311.00	43.9 AV	54.0	-10.1	1.24 H	159	36.4	7.5

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.

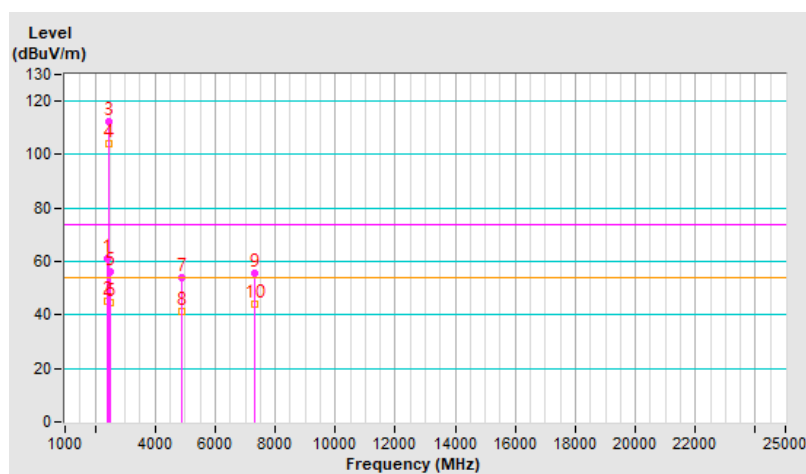


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	2390.00	61.0 PK	74.0	-13.0	2.78 V	8	63.3	-2.3
2	2390.00	45.4 AV	54.0	-8.6	2.78 V	8	47.7	-2.3
3	*2437.00	112.5 PK			2.78 V	8	114.8	-2.3
4	*2437.00	104.0 AV			2.78 V	8	106.3	-2.3
5	2483.50	56.3 PK	74.0	-17.7	2.78 V	8	58.6	-2.3
6	2483.50	44.4 AV	54.0	-9.6	2.78 V	8	46.7	-2.3
7	4874.00	54.1 PK	74.0	-19.9	2.98 V	137	52.0	2.1
8	4874.00	41.1 AV	54.0	-12.9	2.98 V	137	39.0	2.1
9	7311.00	55.5 PK	74.0	-18.5	1.25 V	186	48.0	7.5
10	7311.00	44.2 AV	54.0	-9.8	1.25 V	186	36.7	7.5

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.

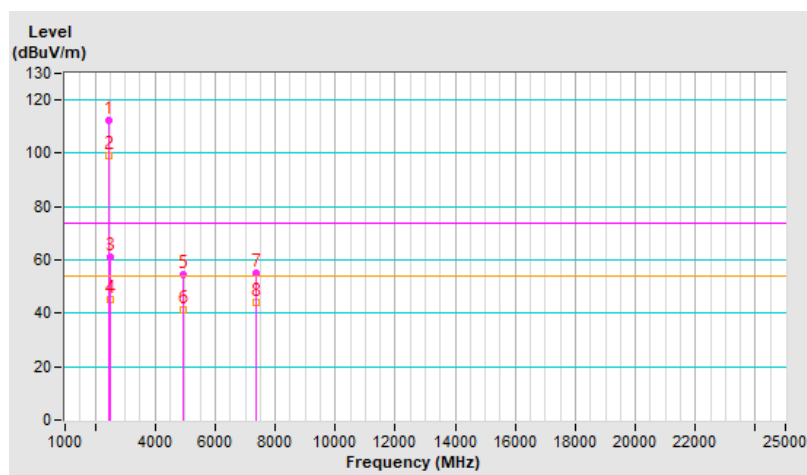


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	*2462.00	112.3 PK			3.12 H	206	114.5	-2.2
2	*2462.00	99.0 AV			3.12 H	206	101.2	-2.2
3	2483.50	61.3 PK	74.0	-12.7	3.12 H	206	63.6	-2.3
4	2483.50	45.3 AV	54.0	-8.7	3.12 H	206	47.6	-2.3
5	4924.00	54.7 PK	74.0	-19.3	3.05 H	132	52.6	2.1
6	4924.00	41.2 AV	54.0	-12.8	3.05 H	132	39.1	2.1
7	7386.00	55.2 PK	74.0	-18.8	1.22 H	161	47.1	8.1
8	7386.00	43.9 AV	54.0	-10.1	1.22 H	161	35.8	8.1

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.

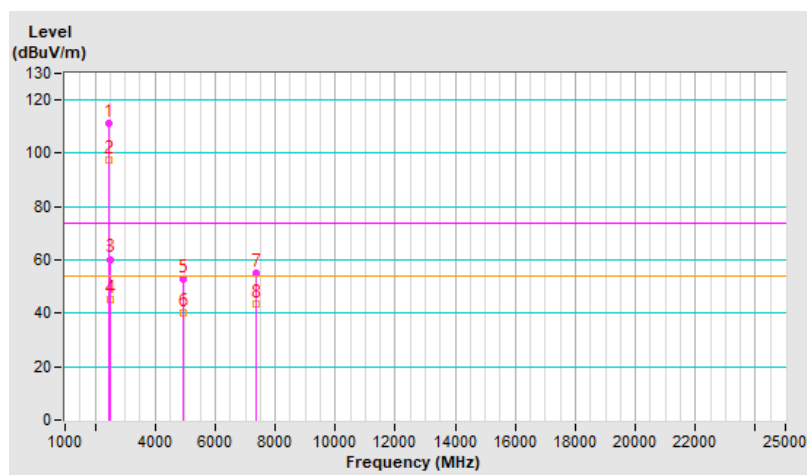


RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=20 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23°C, 70% RH
Tested By	Louis Yang		

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	*2462.00	111.2 PK			2.52 V	33	113.4	-2.2
2	*2462.00	97.7 AV			2.52 V	33	99.9	-2.2
3	2483.50	60.3 PK	74.0	-13.7	2.52 V	33	62.6	-2.3
4	2483.50	45.1 AV	54.0	-8.9	2.52 V	33	47.4	-2.3
5	4924.00	52.9 PK	74.0	-21.1	2.91 V	143	50.8	2.1
6	4924.00	40.4 AV	54.0	-13.6	2.91 V	143	38.3	2.1
7	7386.00	55.0 PK	74.0	-19.0	1.24 V	190	46.9	8.1
8	7386.00	43.7 AV	54.0	-10.3	1.24 V	190	35.6	8.1

Remarks:

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

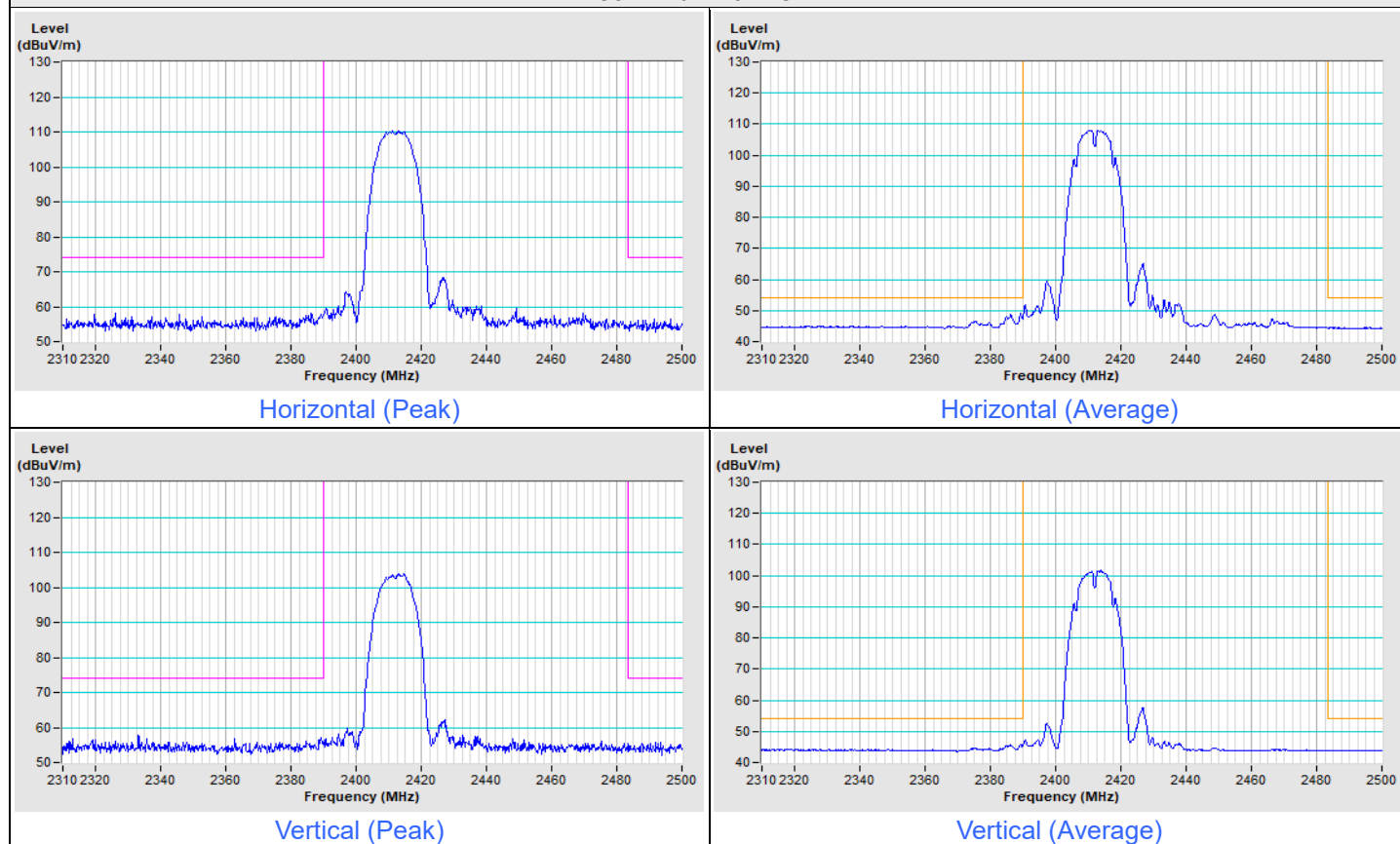


Plot of Band Edge

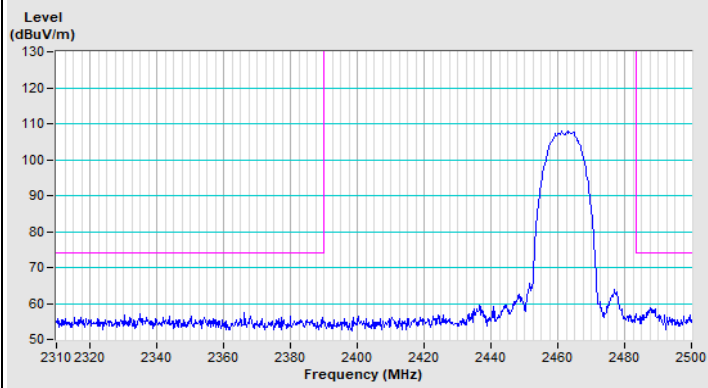
Mode A

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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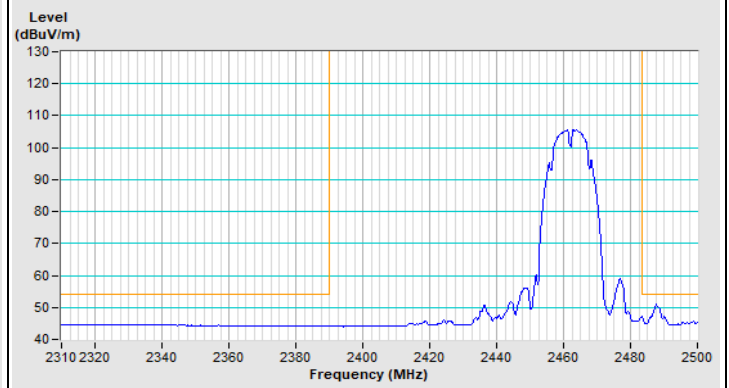
802.11b Channel 1



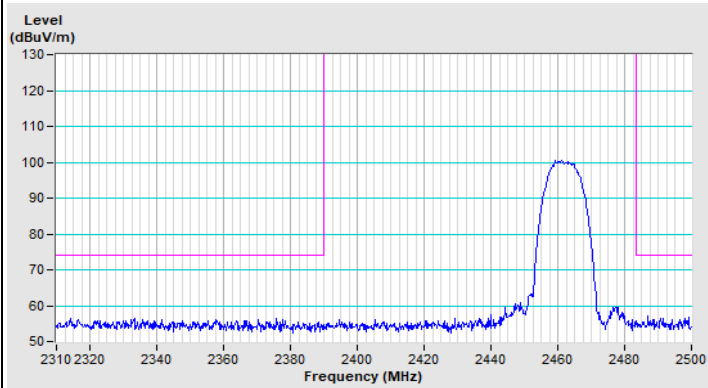
802.11b Channel 11



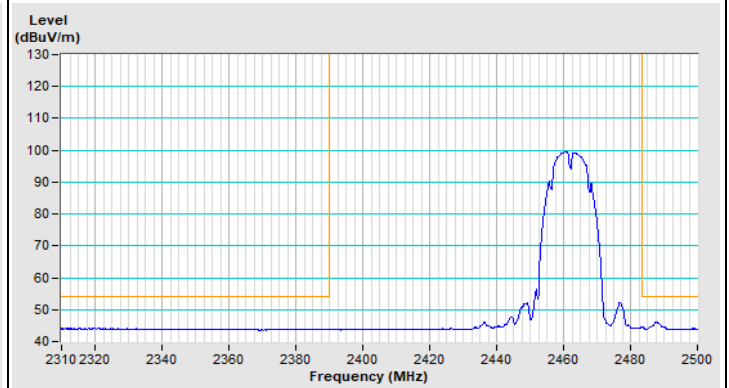
Horizontal (Peak)



Horizontal (Average)



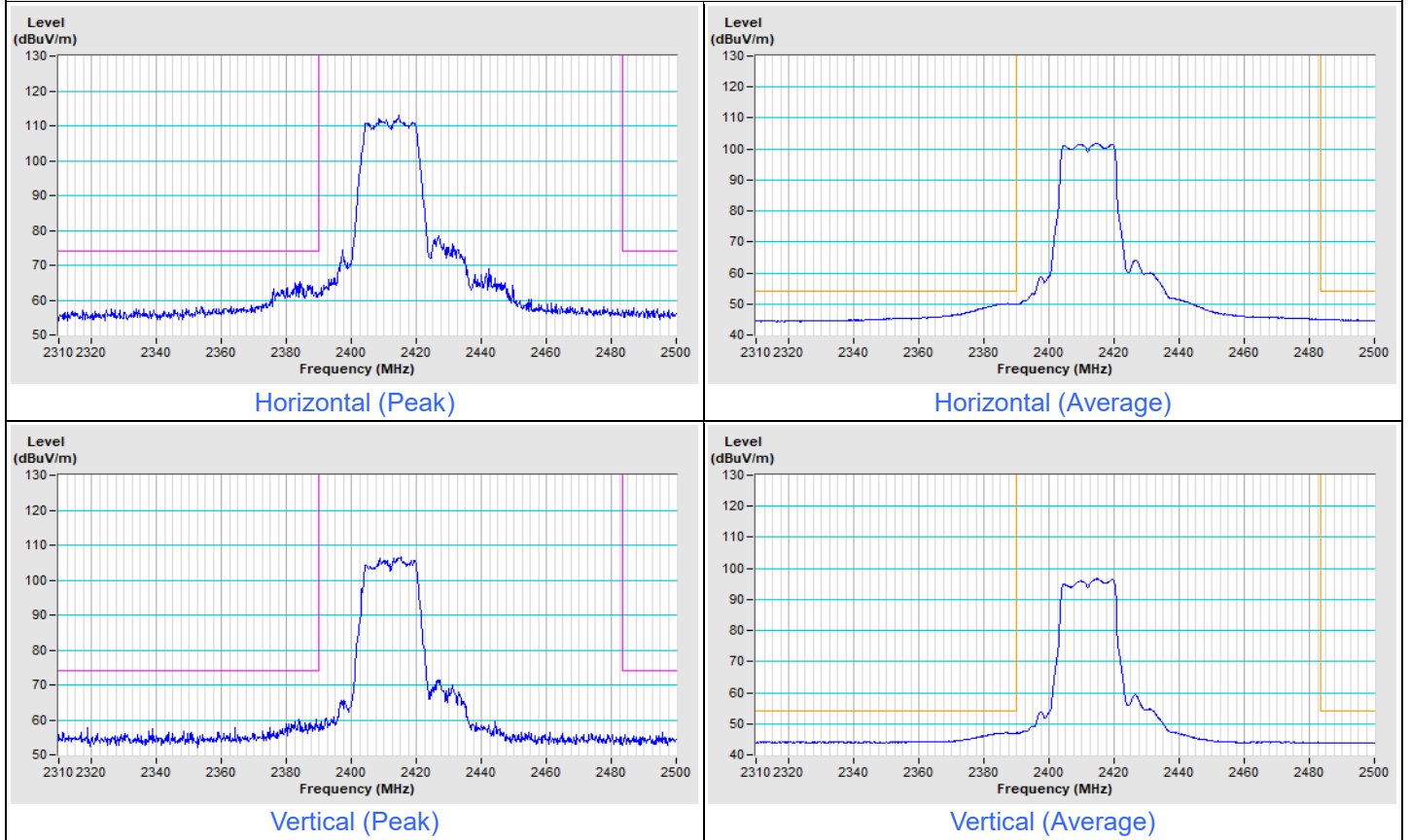
Vertical (Peak)

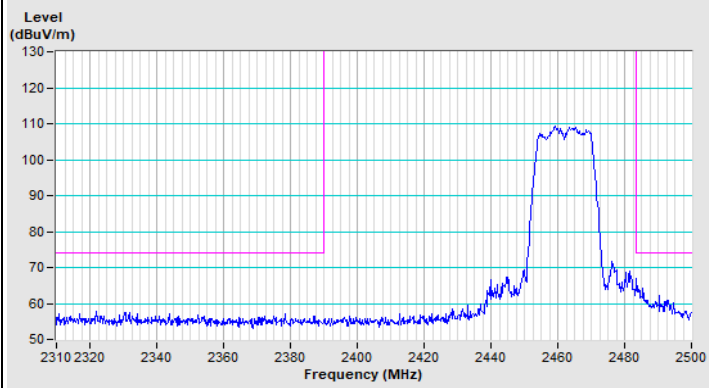


Vertical (Average)

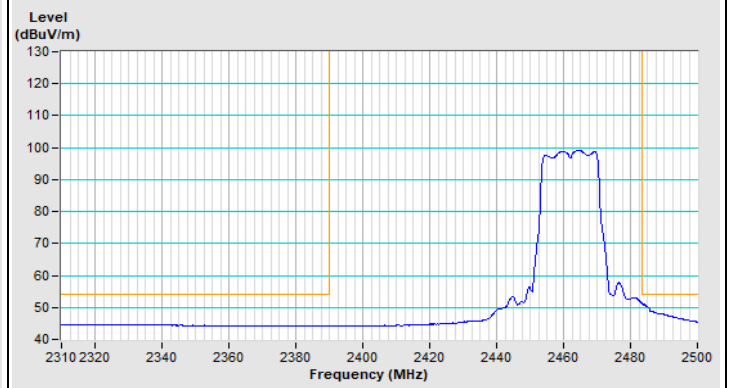
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11g Channel 1

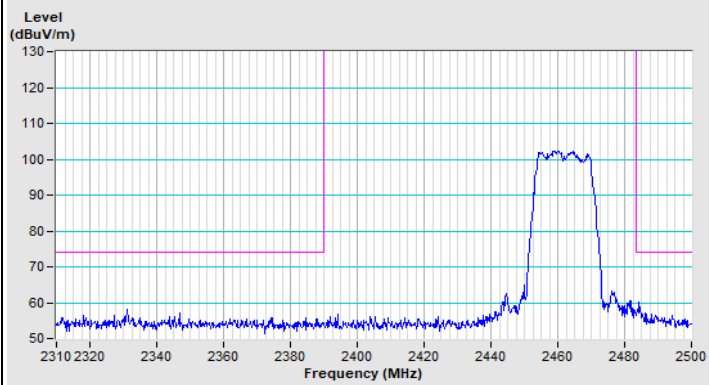


802.11g Channel 11

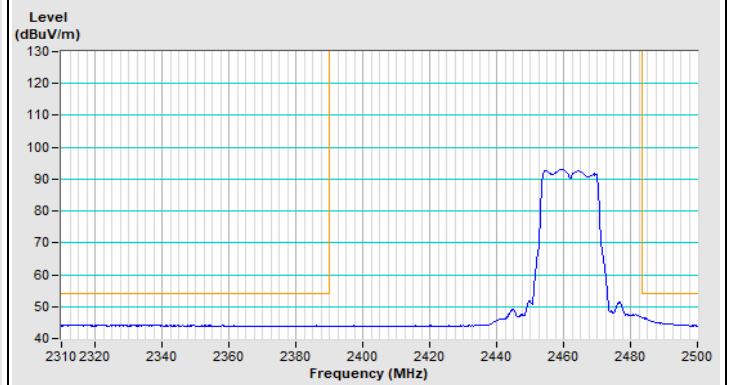
Horizontal (Peak)



Horizontal (Average)



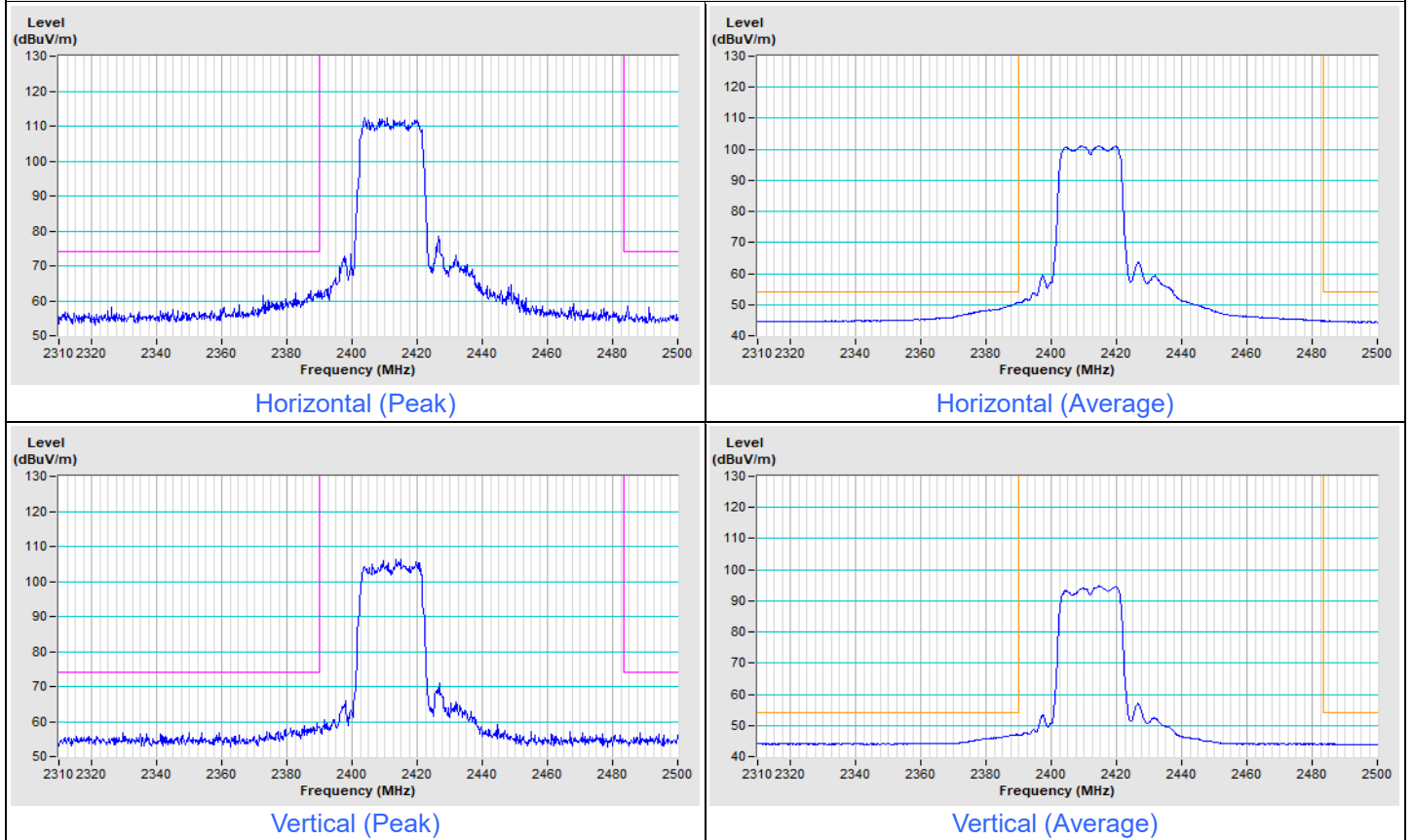
Vertical (Peak)



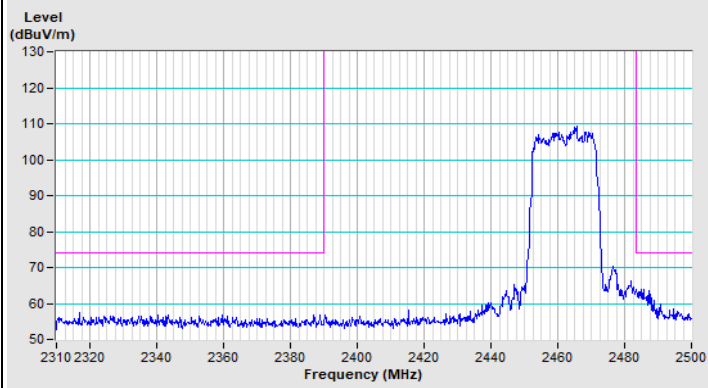
Vertical (Average)

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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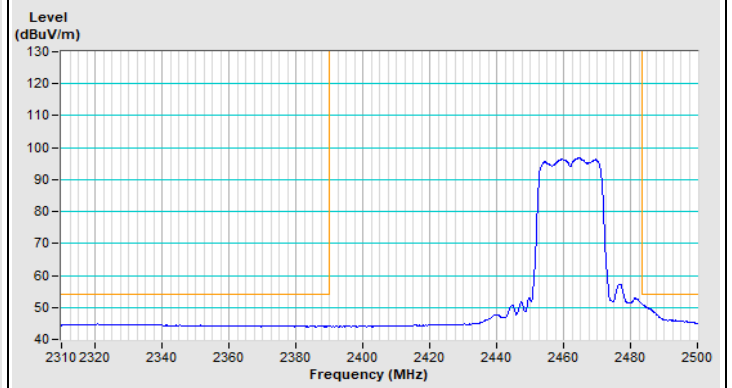
802.11ax (HE20) Channel 1



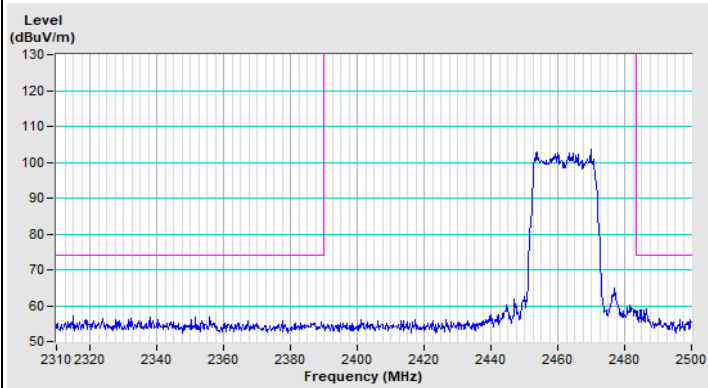
802.11ax (HE20) Channel 11



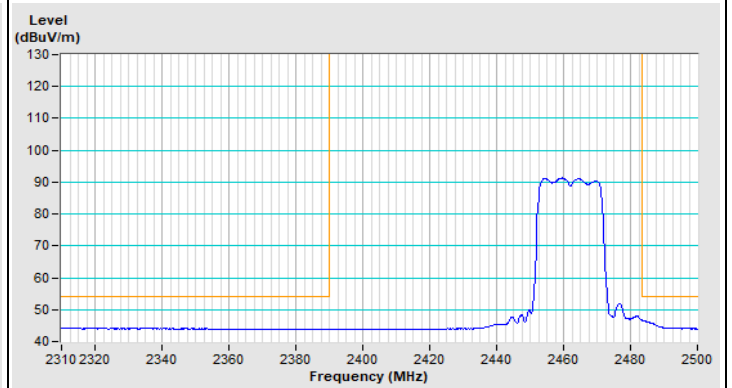
Horizontal (Peak)



Horizontal (Average)



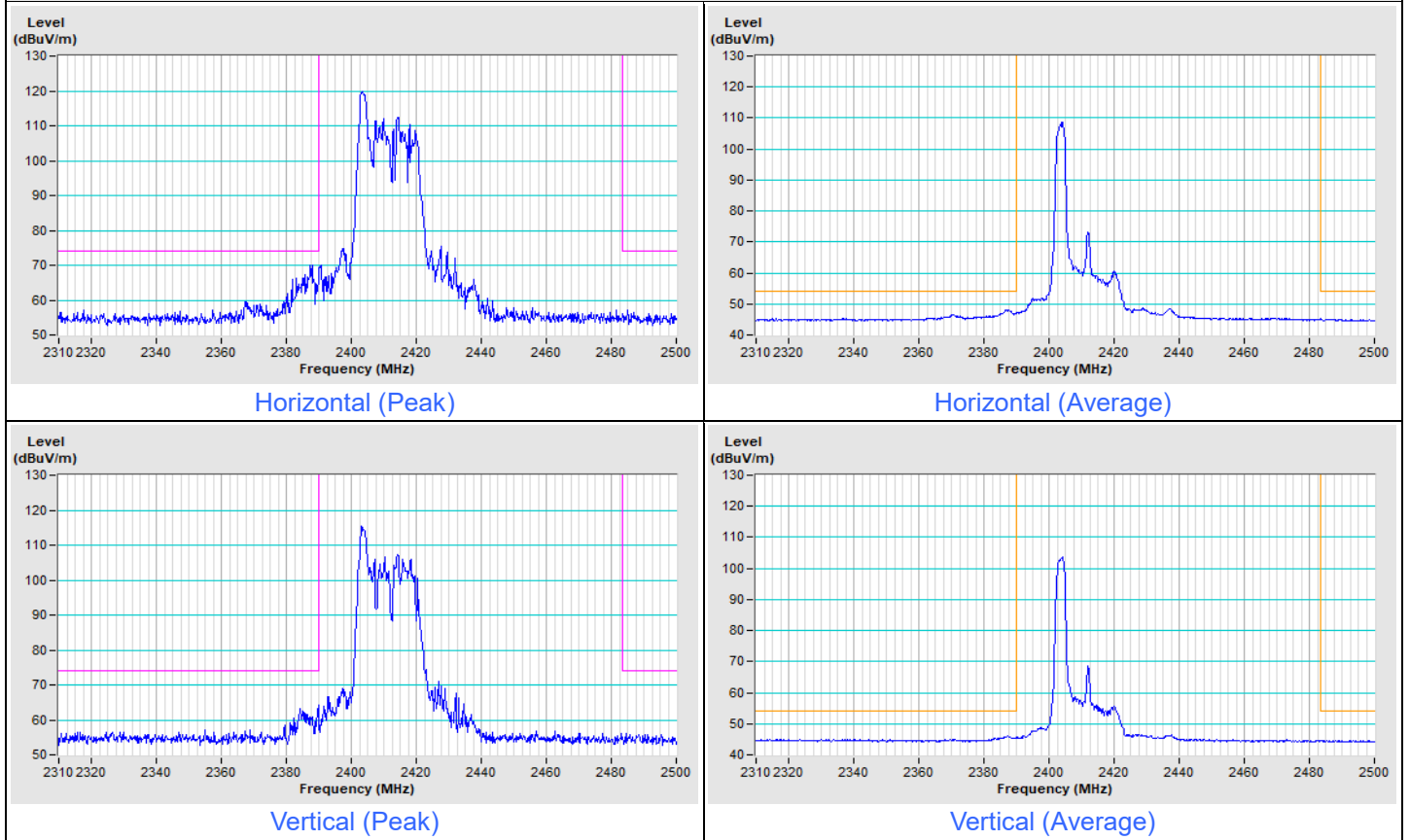
Vertical (Peak)



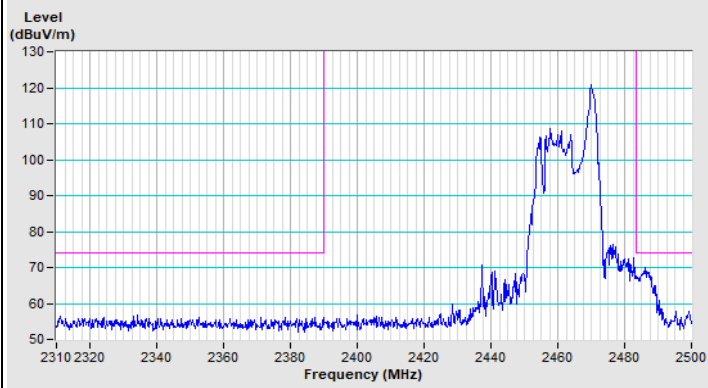
Vertical (Average)

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=20 Hz, DET=Peak
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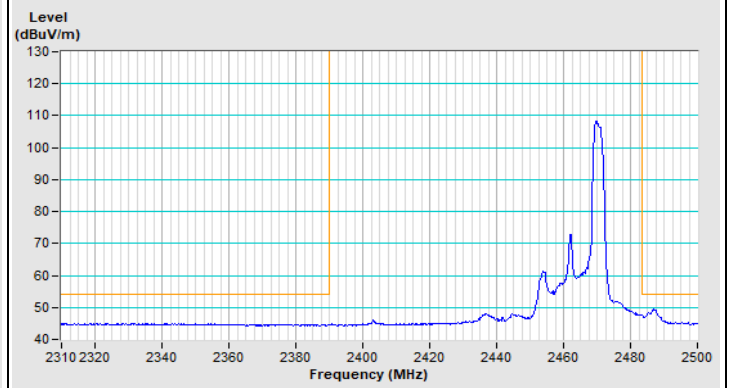
802.11ax (HE20) 26-tone RU Channel 1



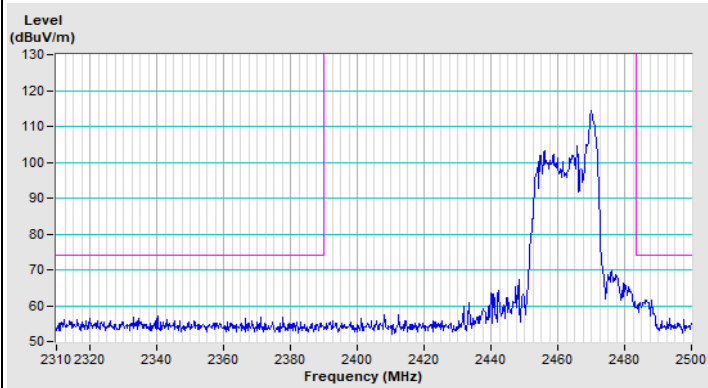
802.11ax (HE20) 26-tone RU Channel 11



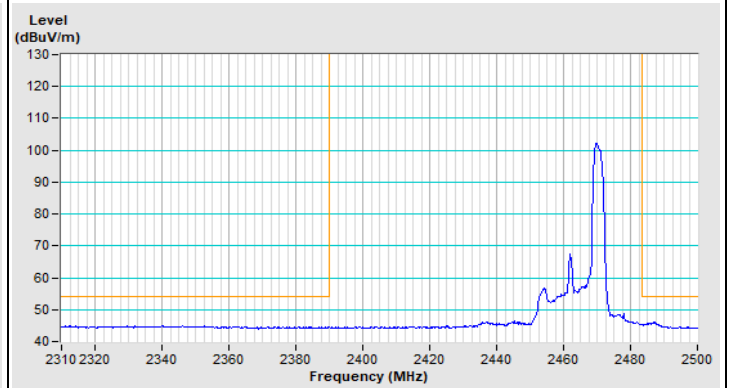
Horizontal (Peak)



Horizontal (Average)



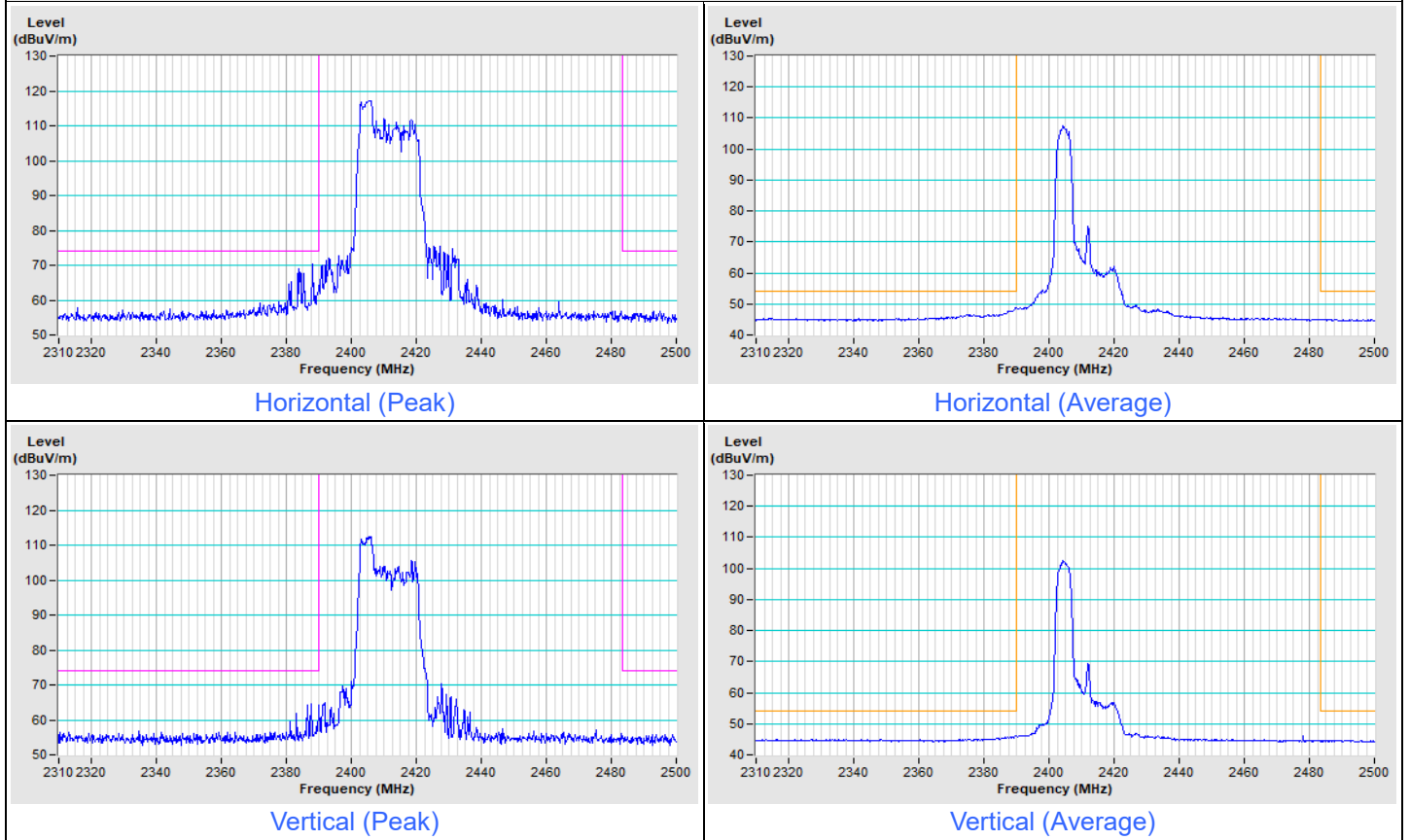
Vertical (Peak)



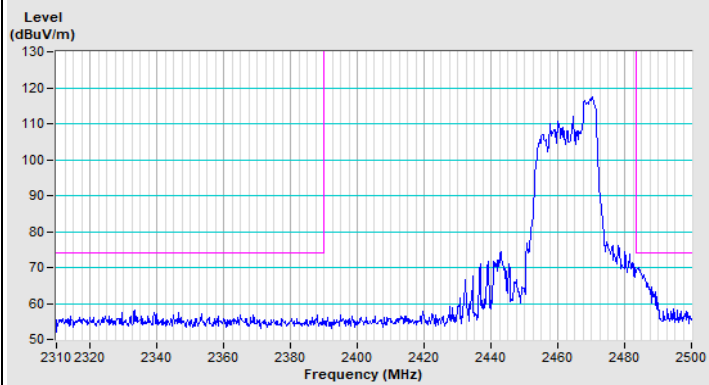
Vertical (Average)

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=20 Hz, DET=Peak
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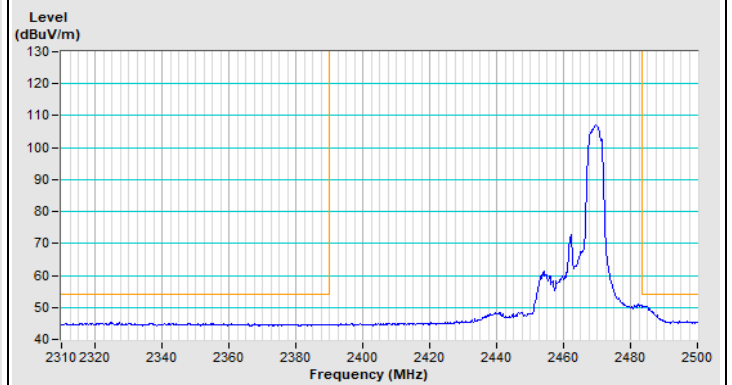
802.11ax (HE20) 52-tone RU Channel 1



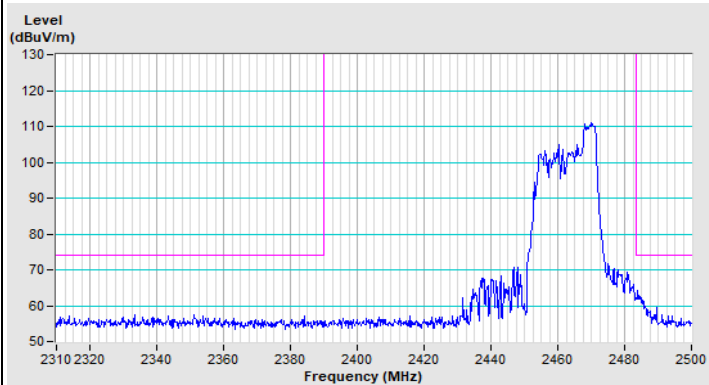
802.11ax (HE20) 52-tone RU Channel 11



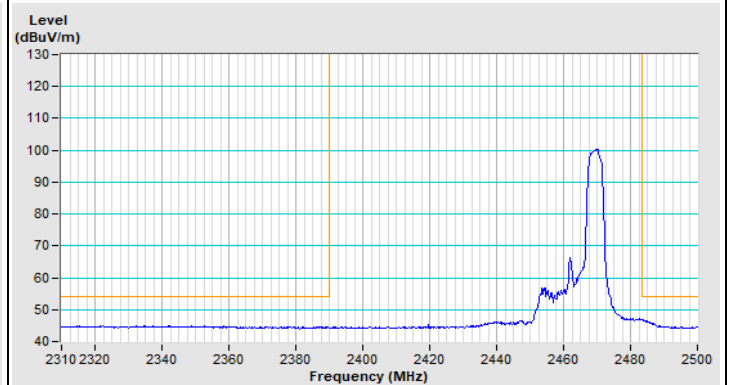
Horizontal (Peak)



Horizontal (Average)



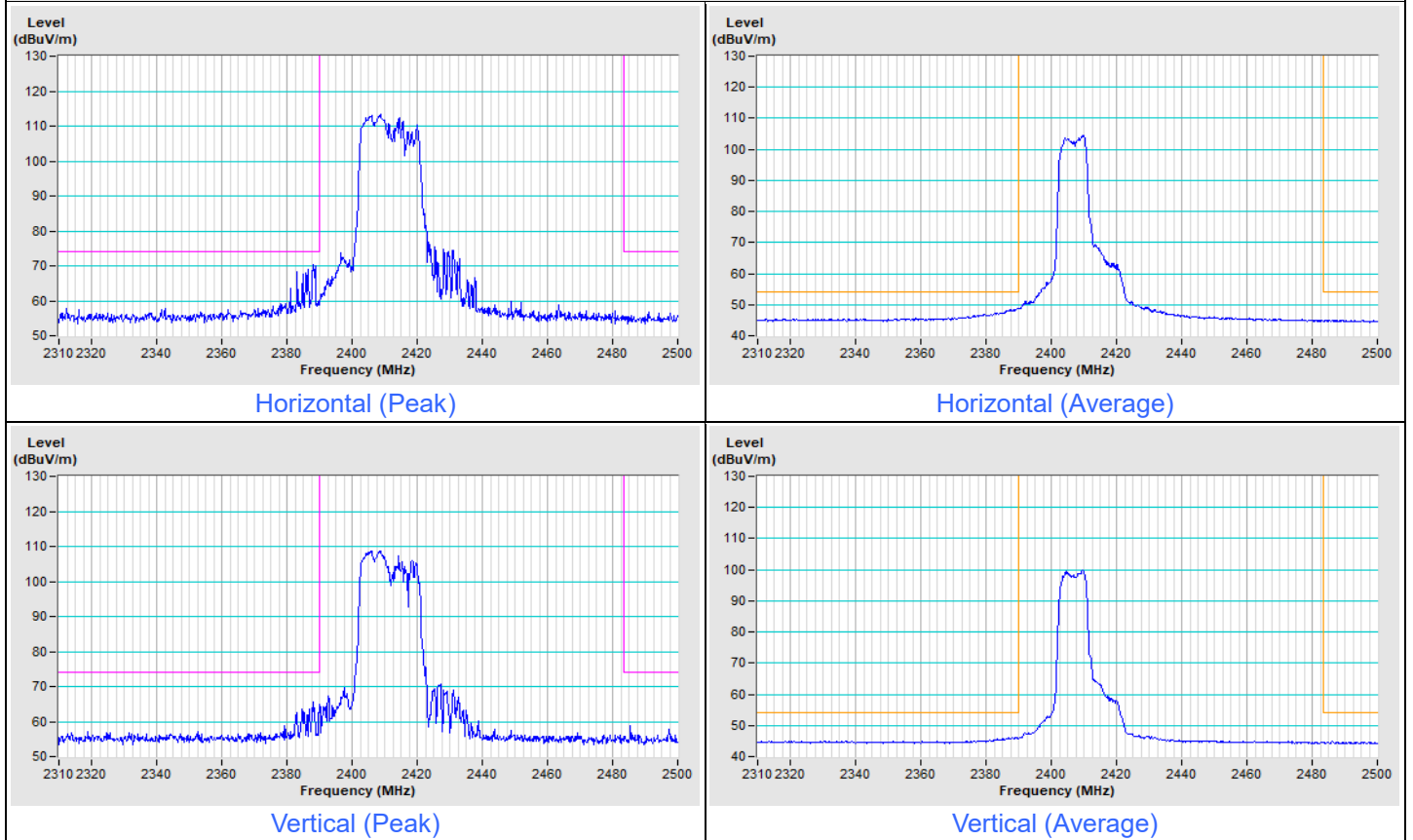
Vertical (Peak)



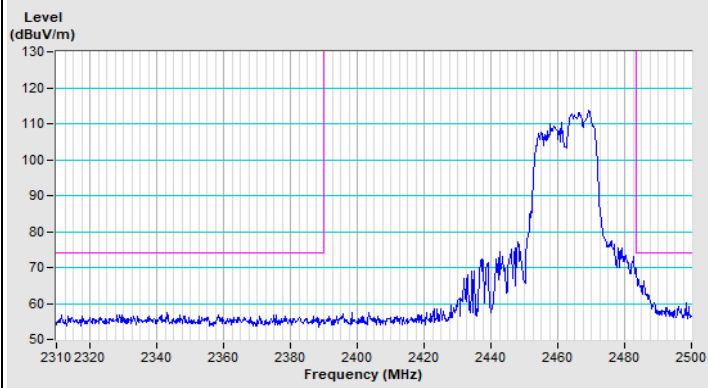
Vertical (Average)

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=20 Hz, DET=Peak
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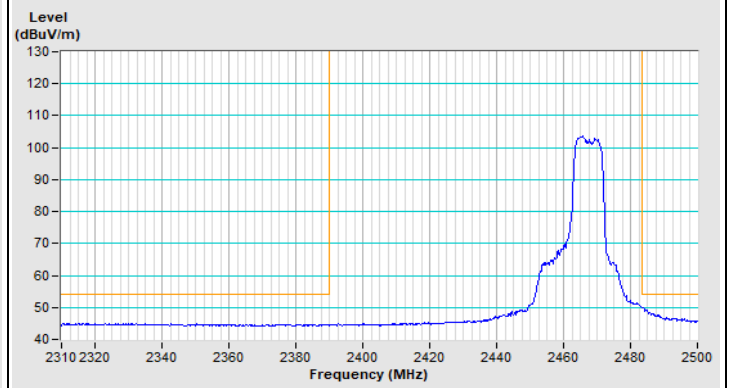
802.11ax (HE20) 106-tone RU Channel 1



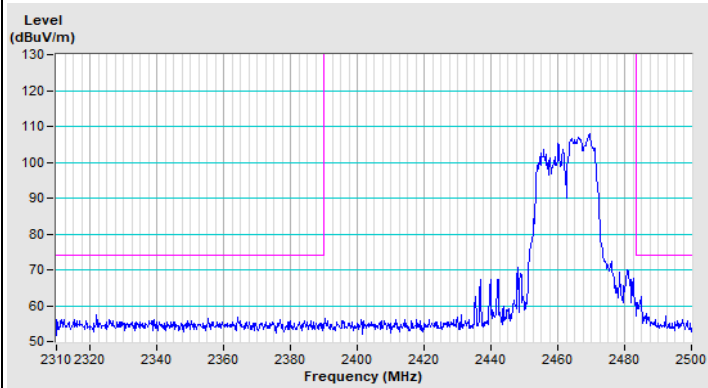
802.11ax (HE20) 106-tone RU Channel 11



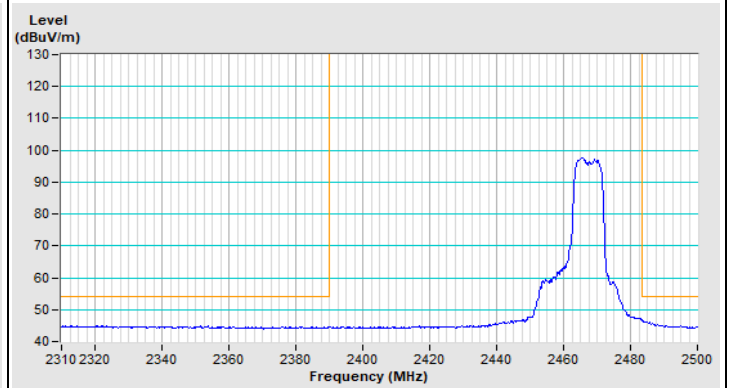
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

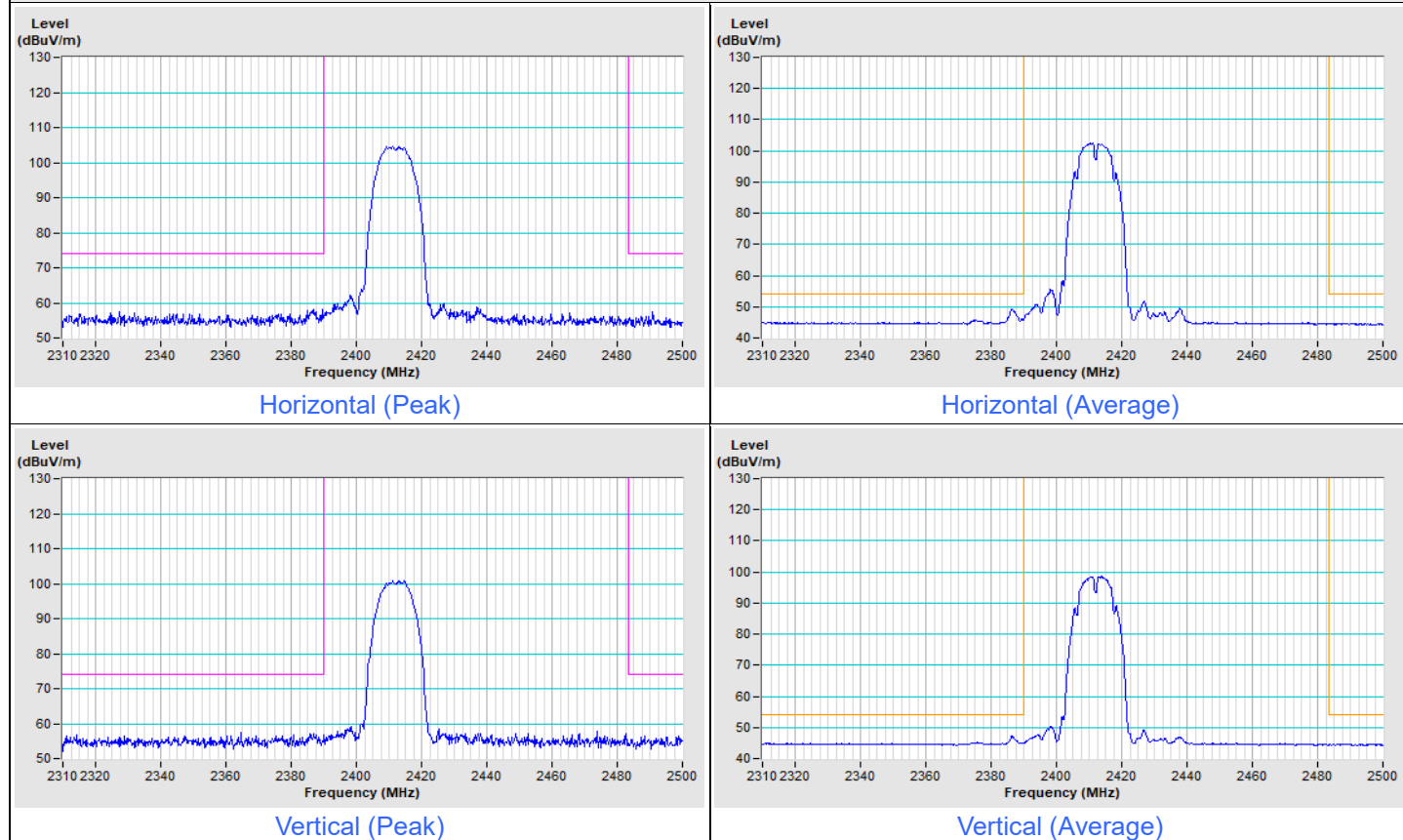


Vertical (Average)

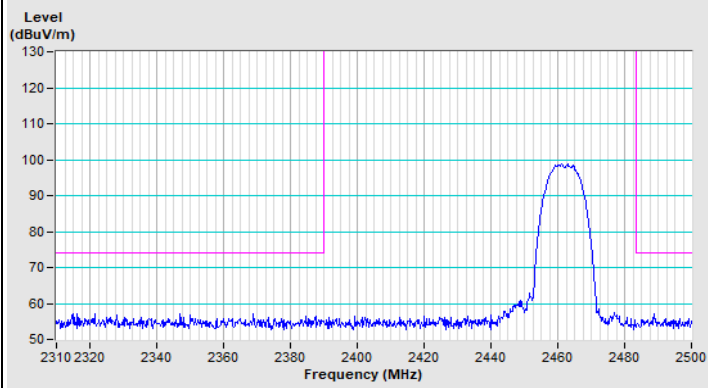
Mode B

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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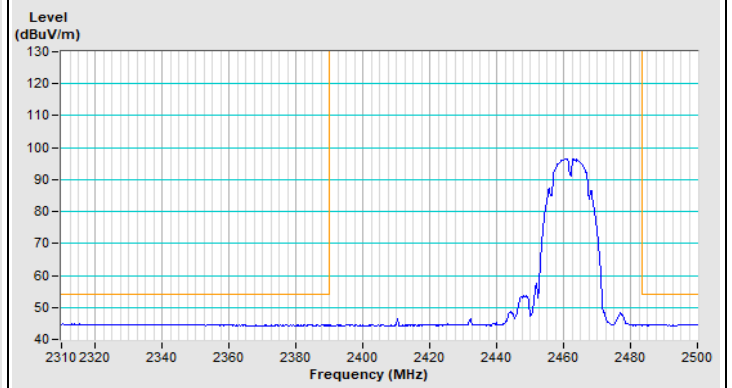
802.11b Channel 1



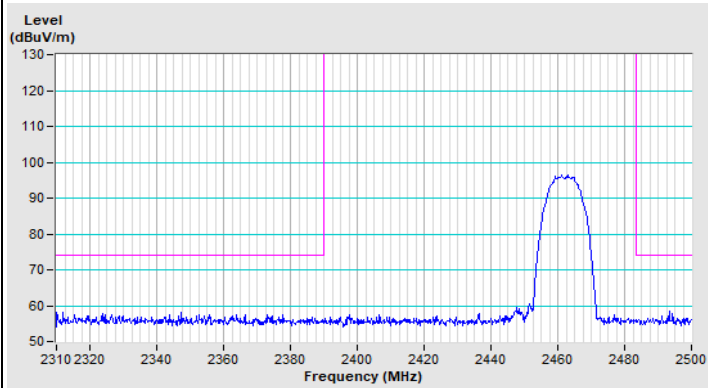
802.11b Channel 11



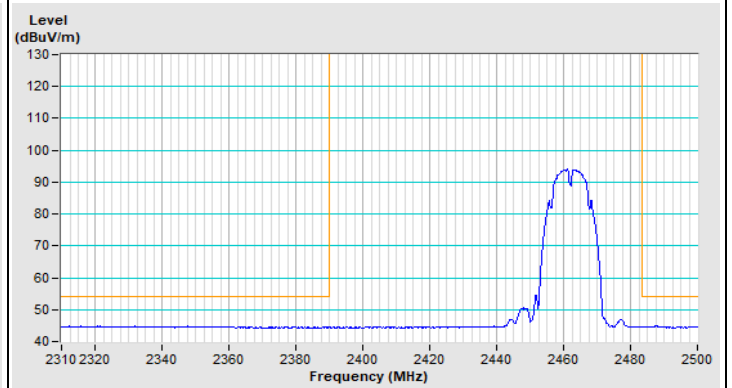
Horizontal (Peak)



Horizontal (Average)



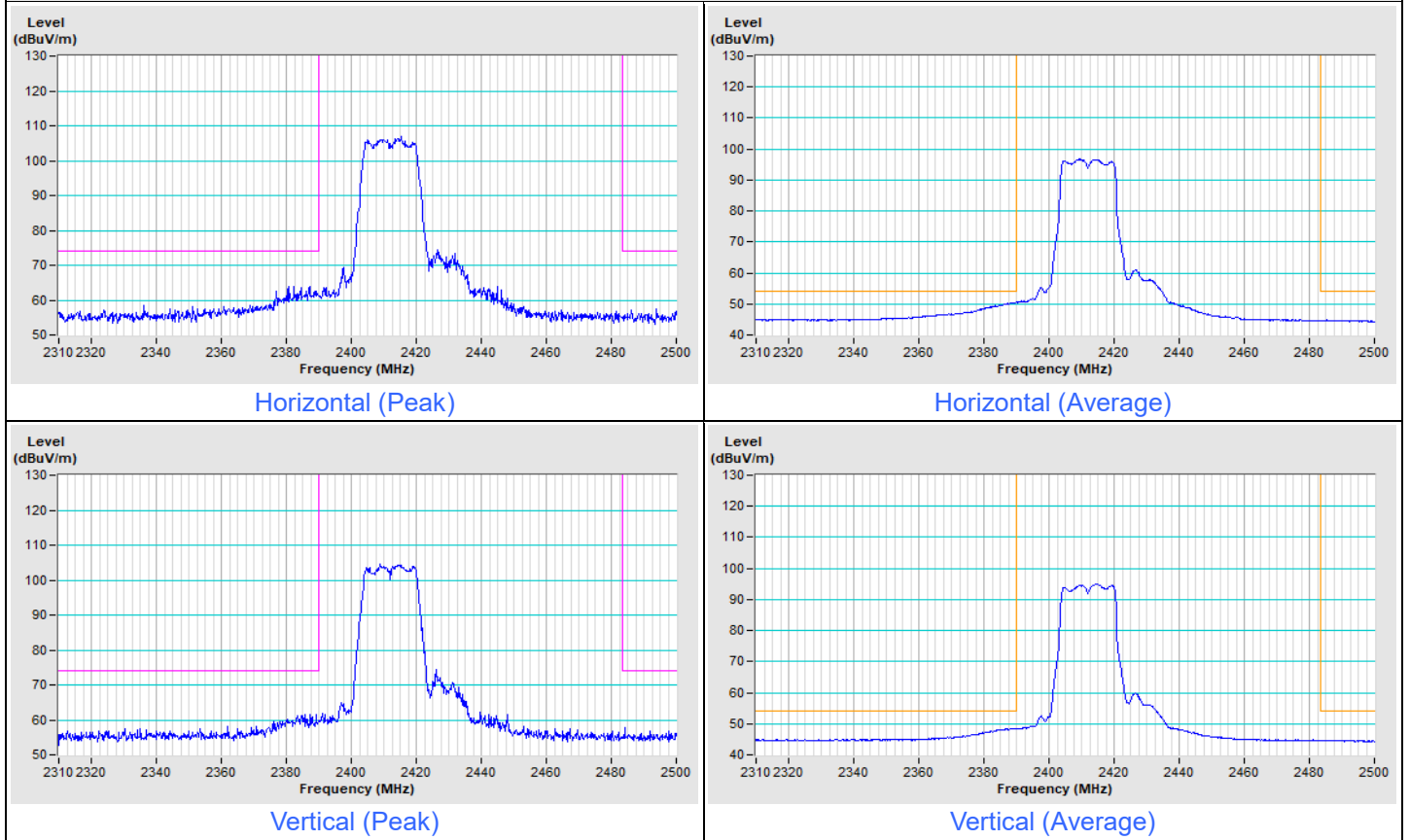
Vertical (Peak)



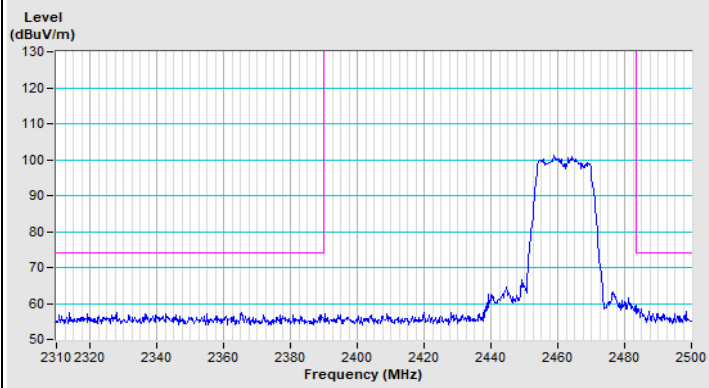
Vertical (Average)

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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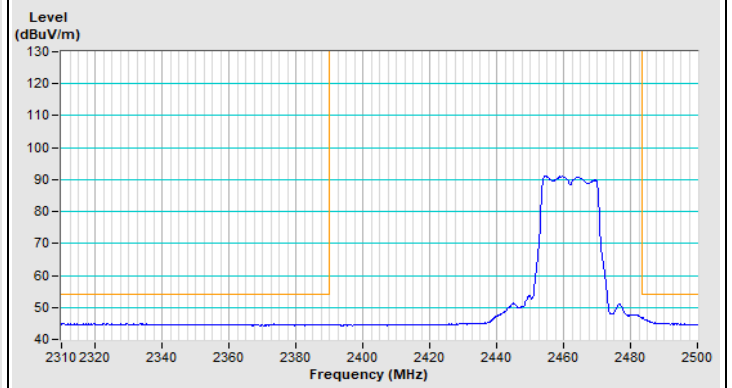
802.11g Channel 1



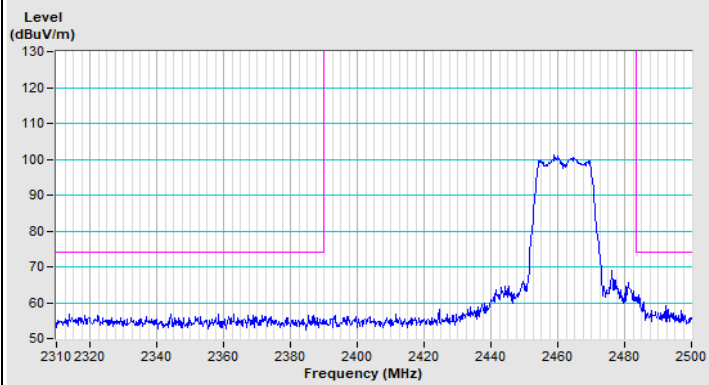
802.11g Channel 11



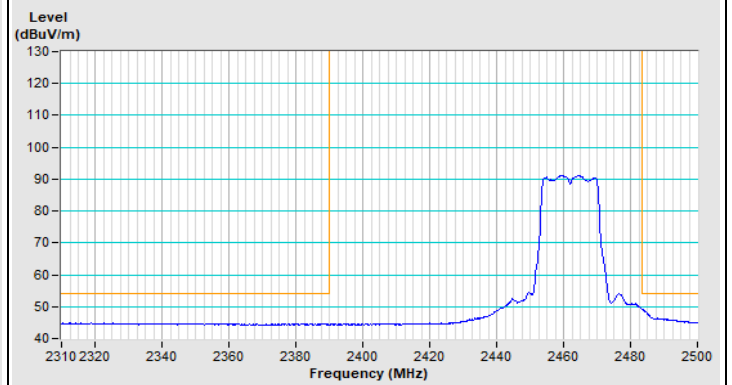
Horizontal (Peak)



Horizontal (Average)



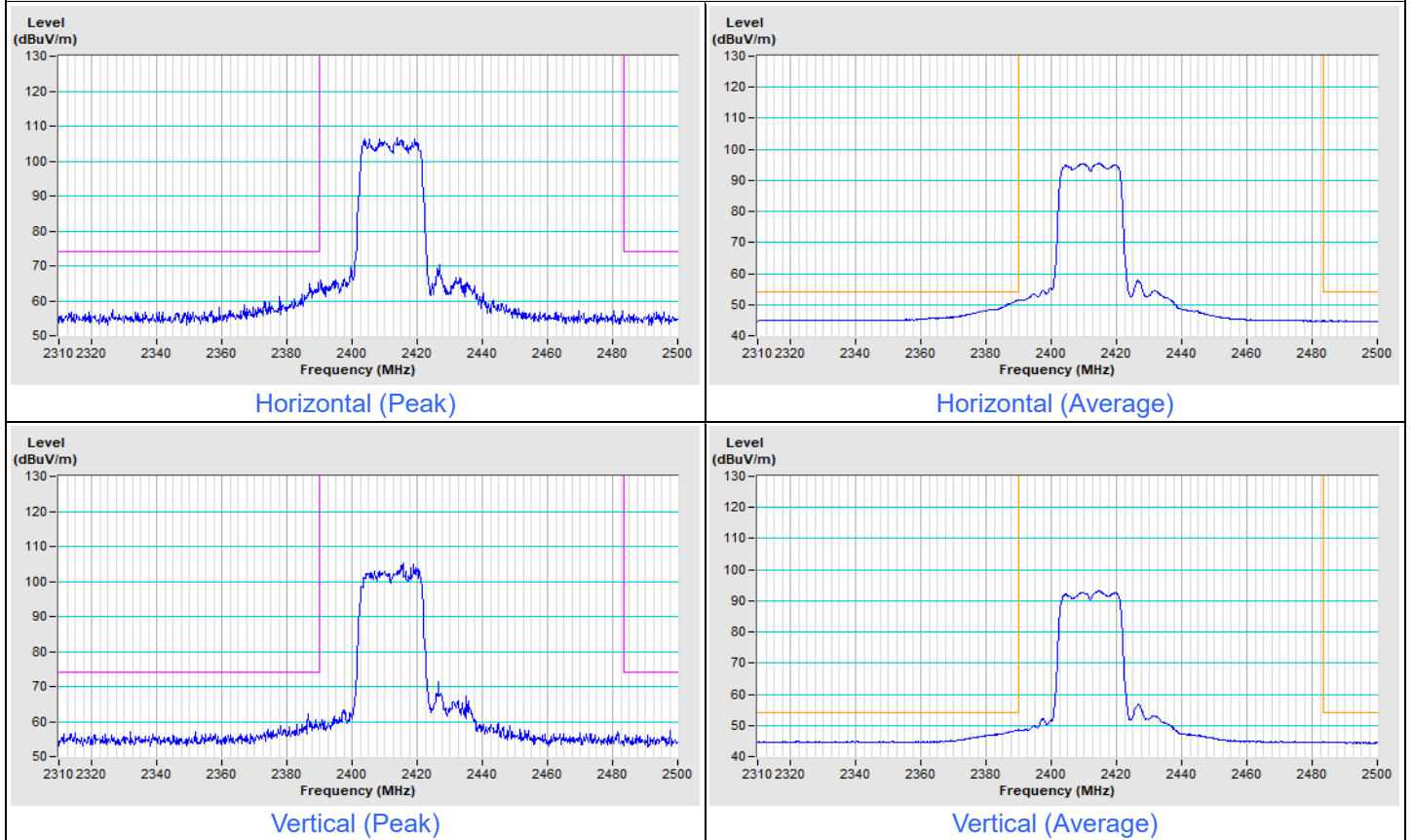
Vertical (Peak)



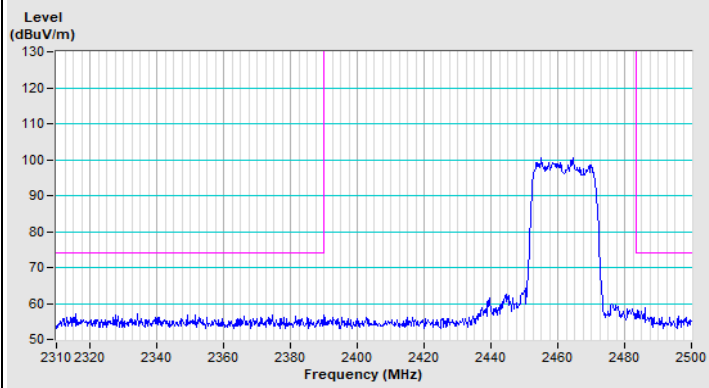
Vertical (Average)

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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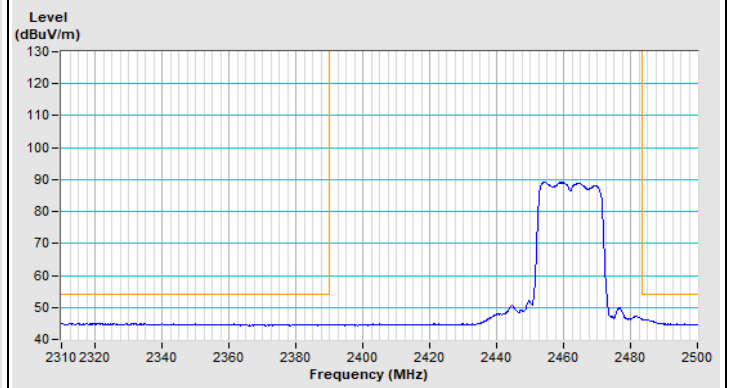
802.11ax (HE20) Channel 1



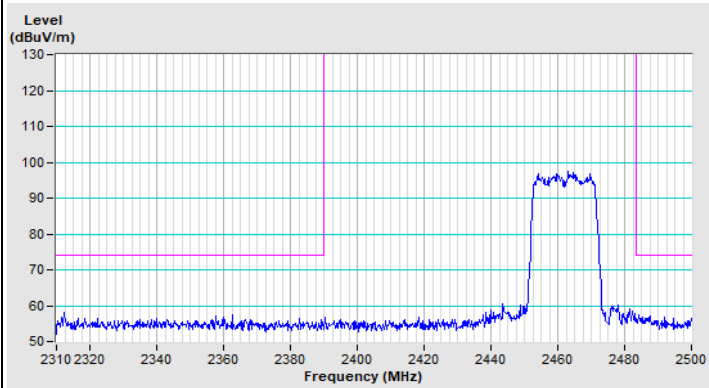
802.11ax (HE20) Channel 11



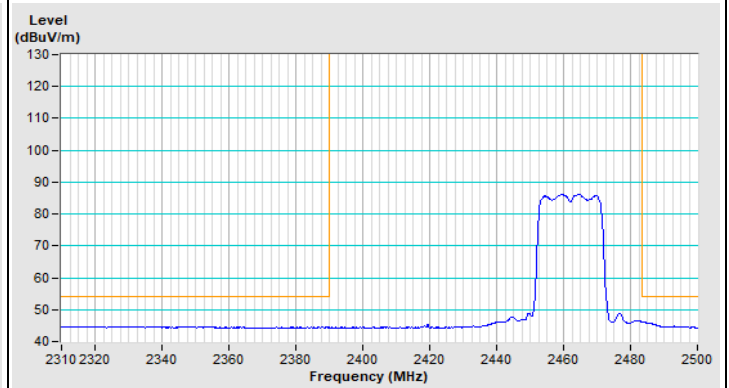
Horizontal (Peak)



Horizontal (Average)



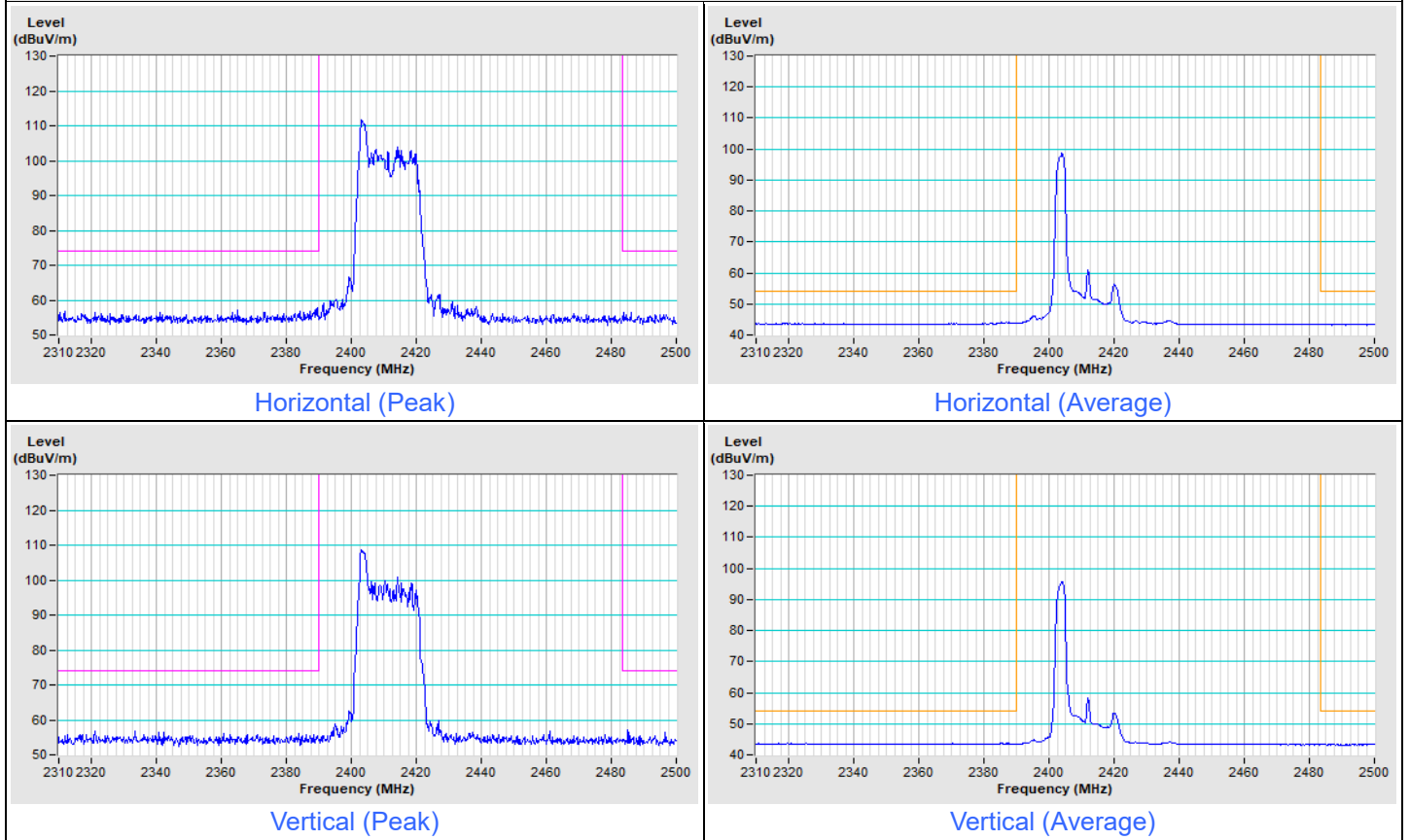
Vertical (Peak)



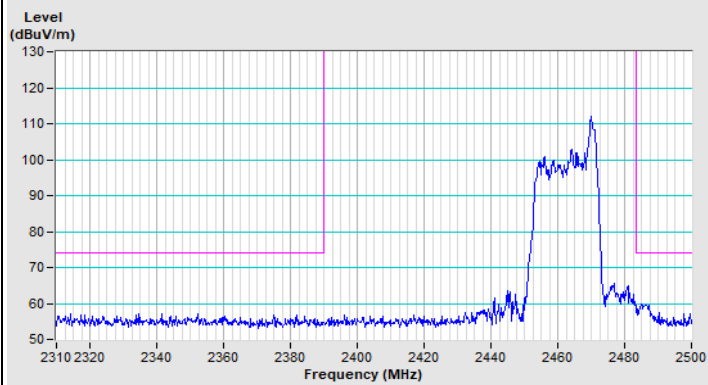
Vertical (Average)

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=20 Hz, DET=Peak
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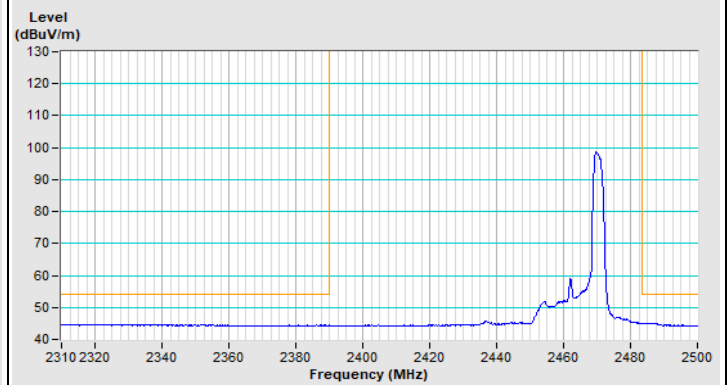
802.11ax (HE20) 26-tone RU Channel 1



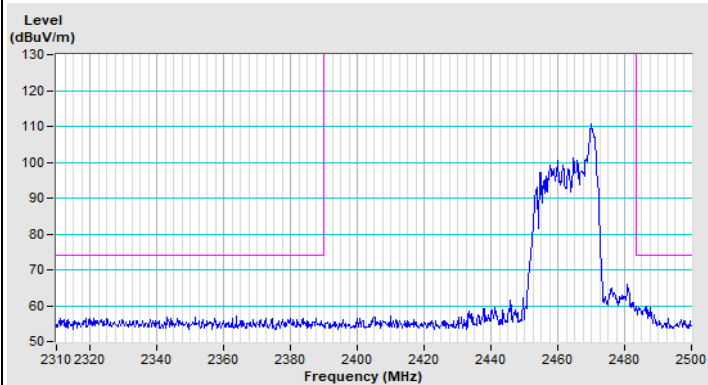
802.11ax (HE20) 26-tone RU Channel 11



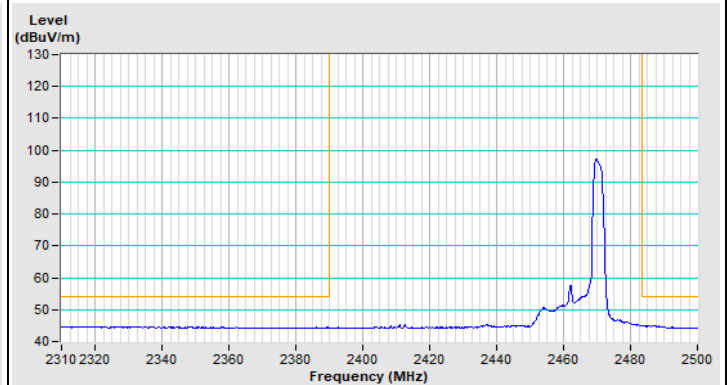
Horizontal (Peak)



Horizontal (Average)



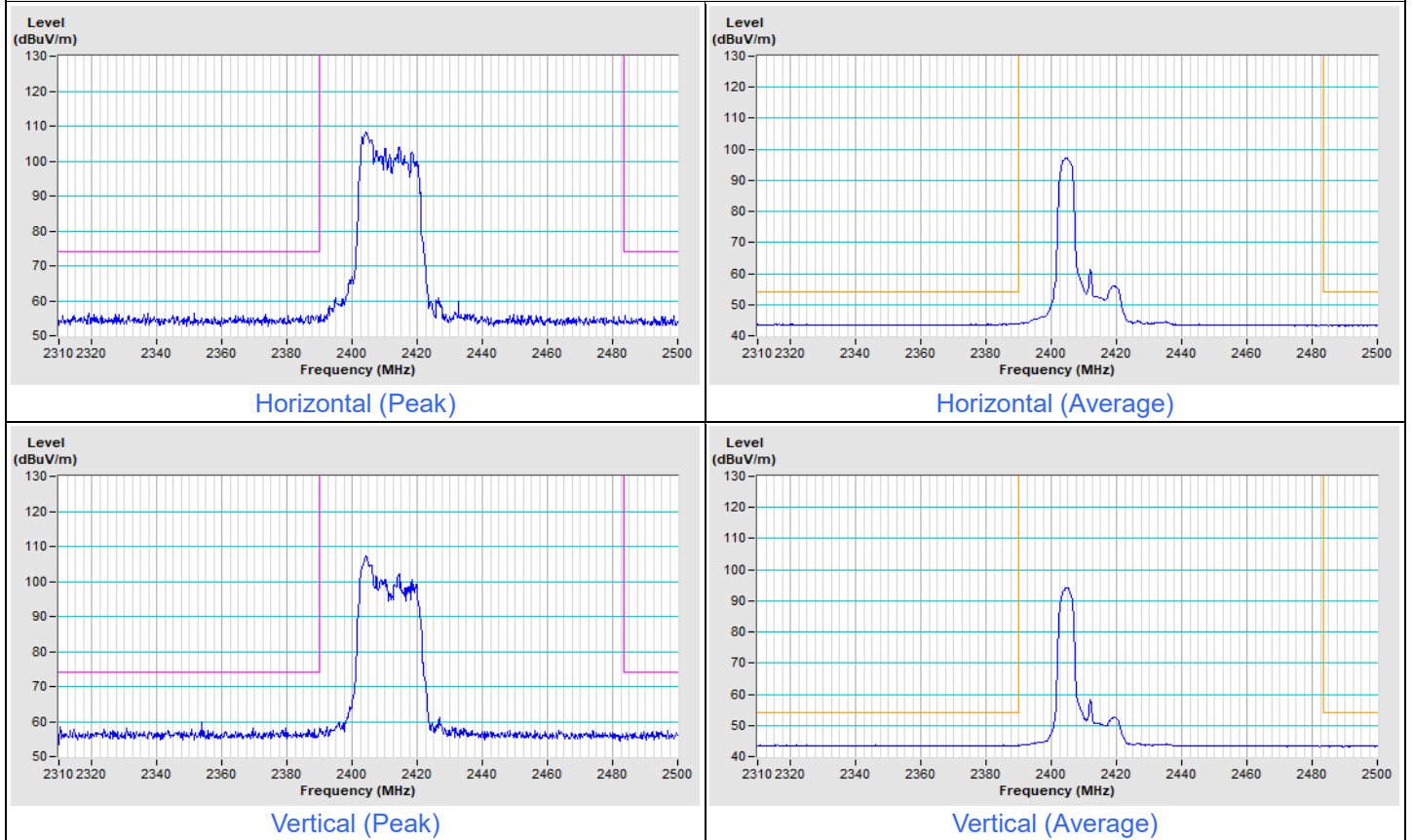
Vertical (Peak)



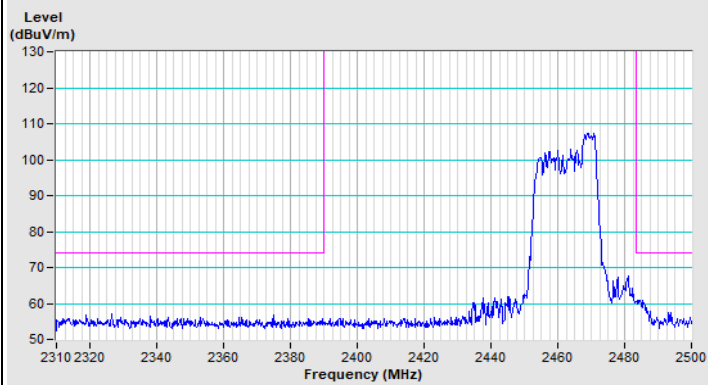
Vertical (Average)

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=20 Hz, DET=Peak
-----------------	--------------------	-------------------------------	--

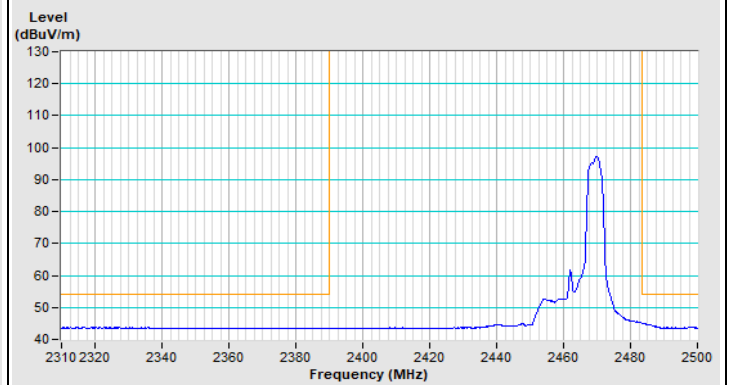
802.11ax (HE20) 52-tone RU Channel 1



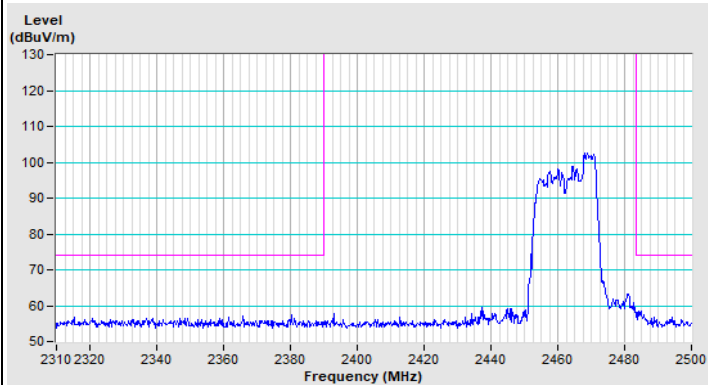
802.11ax (HE20) 52-tone RU Channel 11



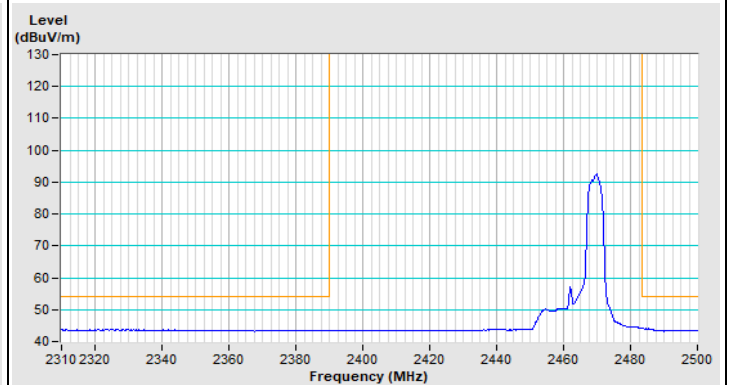
Horizontal (Peak)



Horizontal (Average)



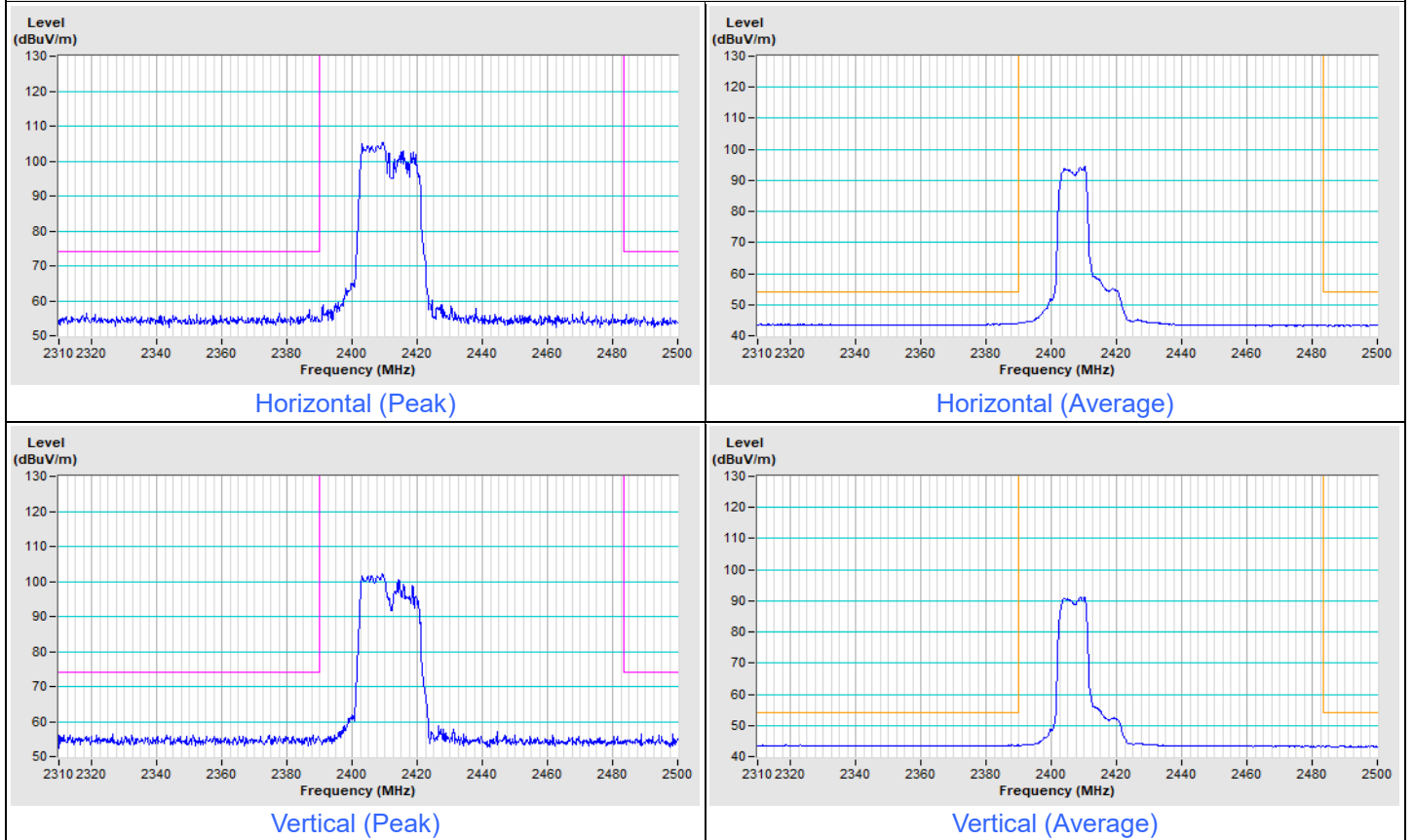
Vertical (Peak)



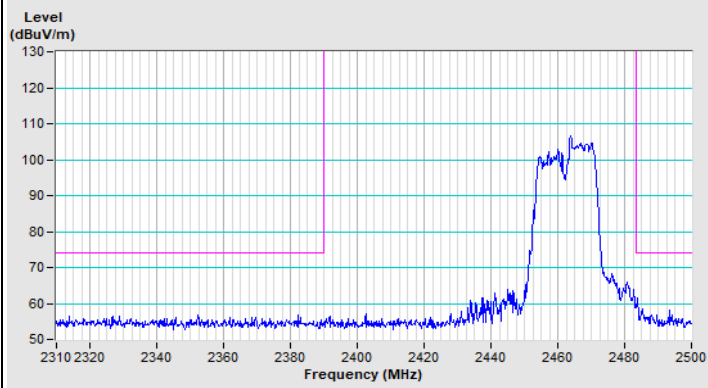
Vertical (Average)

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=20 Hz, DET=Peak
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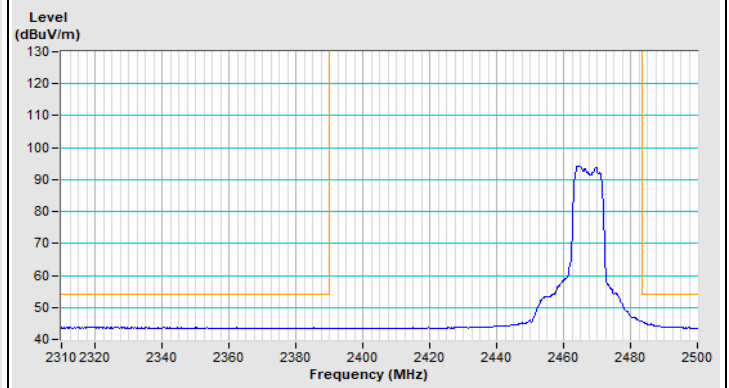
802.11ax (HE20) 106-tone RU Channel 1



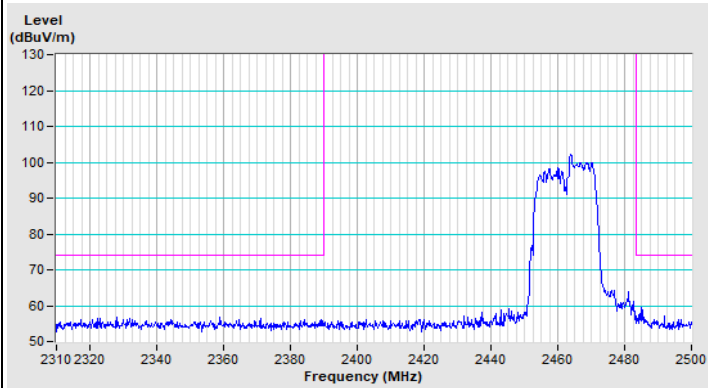
802.11ax (HE20) 106-tone RU Channel 11



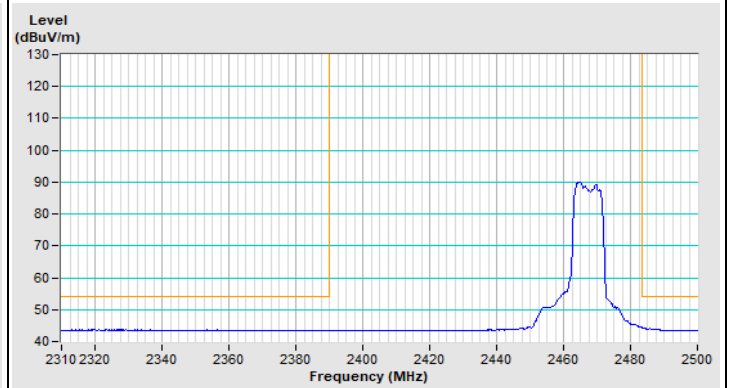
Horizontal (Peak)



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

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