

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBEIH-WTW-P25090601

FCC ID: 2ASK5AIOOD5GSC02

Product: Nokia AIOSC Outdoor 5G

Brand: Nokia

Model No.: Nokia AIOSC Outdoor 5G n48

Received Date: 2025/9/24

Test Date: 2025/12/4 ~ 2025/12/9

Issued Date: 2026/2/12

Applicant: Nokia

Address: 3201 Olympus Blvd Dallas, TX 75019

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration /
Designation Number: 788550 / TW0003

Approved by:

Jeremy Lin
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, Date:

2026/2/12

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Prepared by : Pettie Chen / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBEIH-WTW-P25090601	Original release.	2026/2/12

1 Certificate

Product: Nokia AIOSC Outdoor 5G

Brand: Nokia

Test Model: Nokia AIOSC Outdoor 5G n48

Sample Status: Engineering sample

Applicant: Nokia

Test Date: 2025/12/4 ~ 2025/12/9

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

Measurement procedure: ANSI C63.10-2020

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 -3.18 dB at 0.18600 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -1.3 dB at 45.52 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.3 dB at 2484.10 MHz
15.203	Antenna Requirement	Pass	Antenna connector is SMA. (The device is professionally installed.)

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.79 dB
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.90 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.59 dB
	30 MHz ~ 1 GHz	3.6 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 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	Nokia AIO SC Outdoor 5G
Brand	Nokia
Test Model	Nokia AIO SC Outdoor 5G n48
Status of EUT	Engineering sample
Power Supply Rating	100-240 Vac 48 Vdc
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode
Modulation Technology	DSSS, OFDM
Transfer Rate	Up to 72.2 Mbps
Operating Frequency	2.412 GHz ~ 2.472 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20: 13 802.11n (HT40), VHT40: 9
Output Power	153.109 mW (21.85 dBm)

Note:

1. Simultaneously transmission combination.

Combination	Technology	
1	WLAN (2.4 GHz)	WWAN

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

2. 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 Type	Brand	Model	Antenna Net Gain(dBi)	Frequency range	Connector Type
Dipole	INPAQ TECHNOLOGY CO., LTD	RFDPA490800SMAB301	5.76	2.4~2.4835GHz	SMA Male

* 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
802.11n (HT40)	1Tx	1Rx
VHT20	1Tx	1Rx
VHT40	1Tx	1Rx

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), VHT mode for 20 MHz (40 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

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

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

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

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

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: Y-axis / Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. EUT can be used in the following modes: EUT+AC / EUT+Adapter. Pre-scan these ways and find the worst case as a representative test condition. 3. 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. Worst Condition: Z-axis 2. Worst Condition: EUT+AC

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

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	802.11b	1, 6, 11, 12, 13	DBPSK	1Mb/s
	802.11g	1, 6, 11, 12, 13	BPSK	6Mb/s
	802.11n (HT20)	1, 6, 11, 12, 13	BPSK	MCS0
	802.11n (HT40)	3, 6, 9, 10, 11	BPSK	MCS0
	VHT20	1, 6, 11, 12, 13	BPSK	MCS0
	VHT40	3, 6, 9, 10, 11	BPSK	MCS0
Power Spectral Density	802.11b	1, 6, 11, 12, 13	DBPSK	1Mb/s
	802.11g	1, 6, 11, 12, 13	BPSK	6Mb/s
	VHT20	1, 6, 11, 12, 13	BPSK	MCS0
	VHT40	3, 6, 9, 10, 11	BPSK	MCS0
6 dB Bandwidth	802.11b	1, 6, 11, 12, 13	DBPSK	1Mb/s
	802.11g	1, 6, 11, 12, 13	BPSK	6Mb/s
	VHT20	1, 6, 11, 12, 13	BPSK	MCS0
	VHT40	3, 6, 9, 10, 11	BPSK	MCS0
Conducted Out of Band Emissions	802.11b	1, 6, 11, 12, 13	DBPSK	1Mb/s
	802.11g	1, 6, 11, 12, 13	BPSK	6Mb/s
	VHT20	1, 6, 11, 12, 13	BPSK	MCS0
	VHT40	3, 6, 9, 10, 11	BPSK	MCS0
AC Power Conducted Emissions	802.11g	6	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	802.11g	1	BPSK	6Mb/s
Unwanted Emissions above 1 GHz	802.11b	1, 6, 11, 12, 13	DBPSK	1Mb/s
	802.11g	1, 6, 11, 12, 13	BPSK	6Mb/s
	VHT20	1, 6, 11, 12, 13	BPSK	MCS0
	VHT40	3, 6, 9, 10, 11	BPSK	MCS0

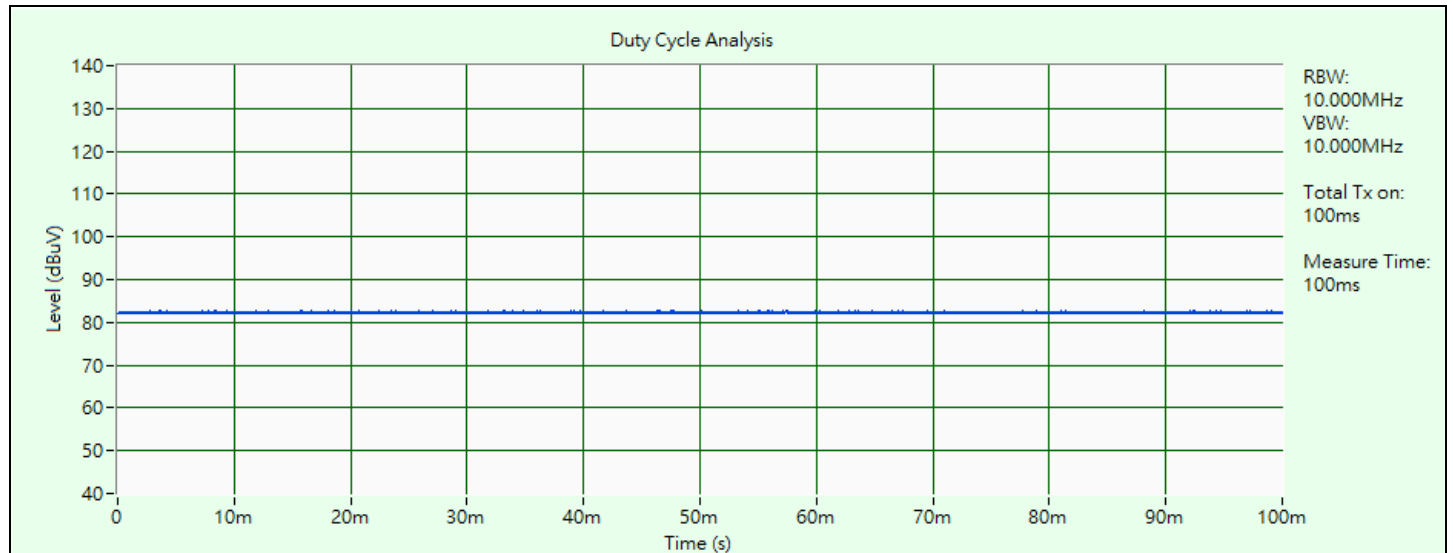
3.5 Duty Cycle of Test Signal

802.11b: Duty cycle = 100 ms / 100 ms x 100% = 100.0%

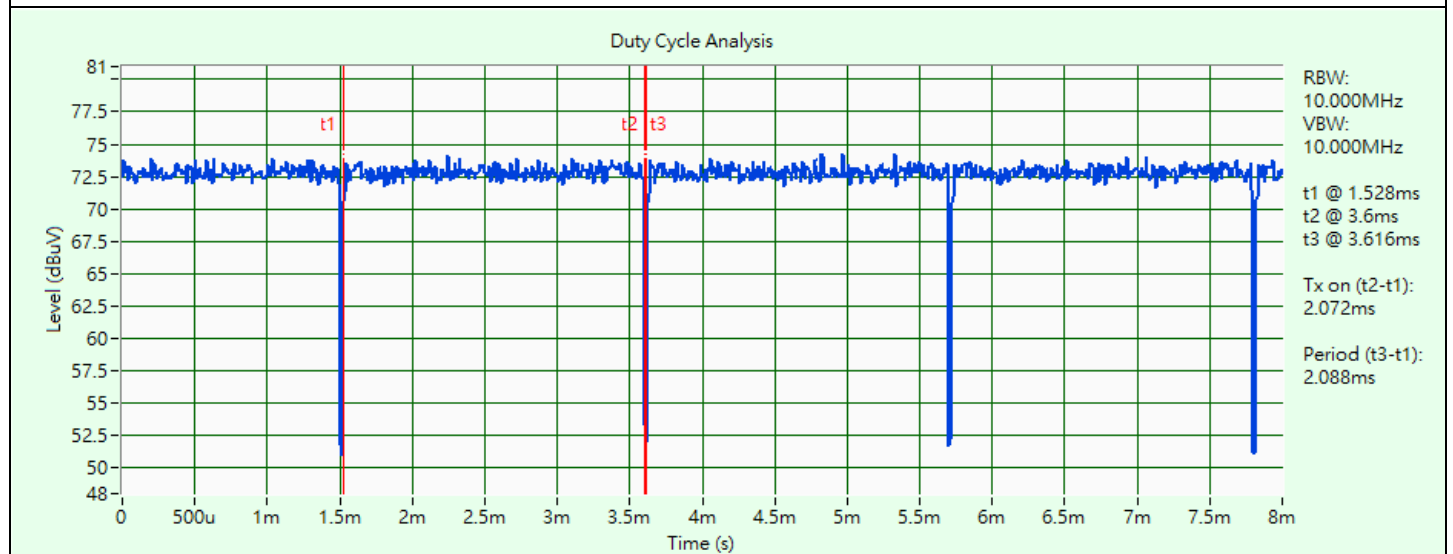
802.11g: Duty cycle = 2.072 ms / 2.088 ms x 100% = 99.2%

VHT20: Duty cycle = 4.32 ms / 4.322 ms x 100% = 100.0%

VHT40: Duty cycle = 2.104 ms / 2.12 ms x 100% = 99.2%

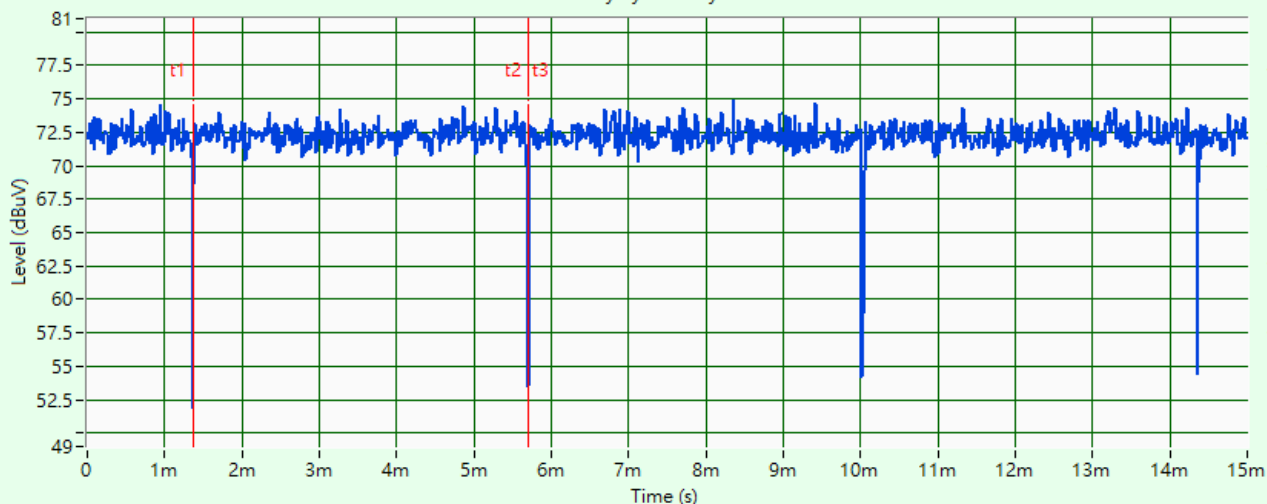


802.11b



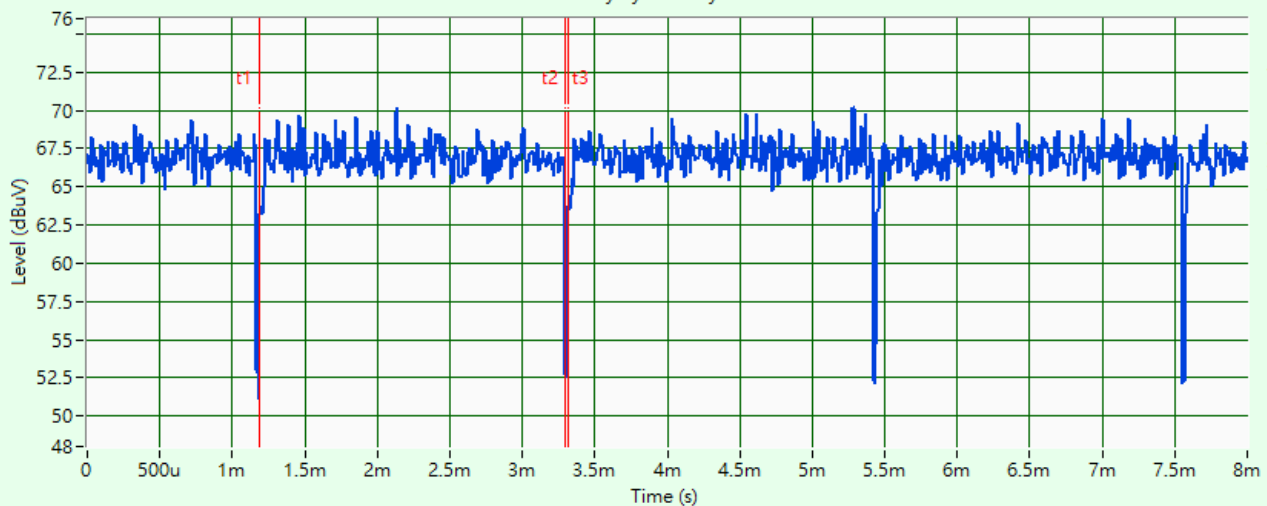
802.11g

Duty Cycle Analysis



VHT20

Duty Cycle Analysis

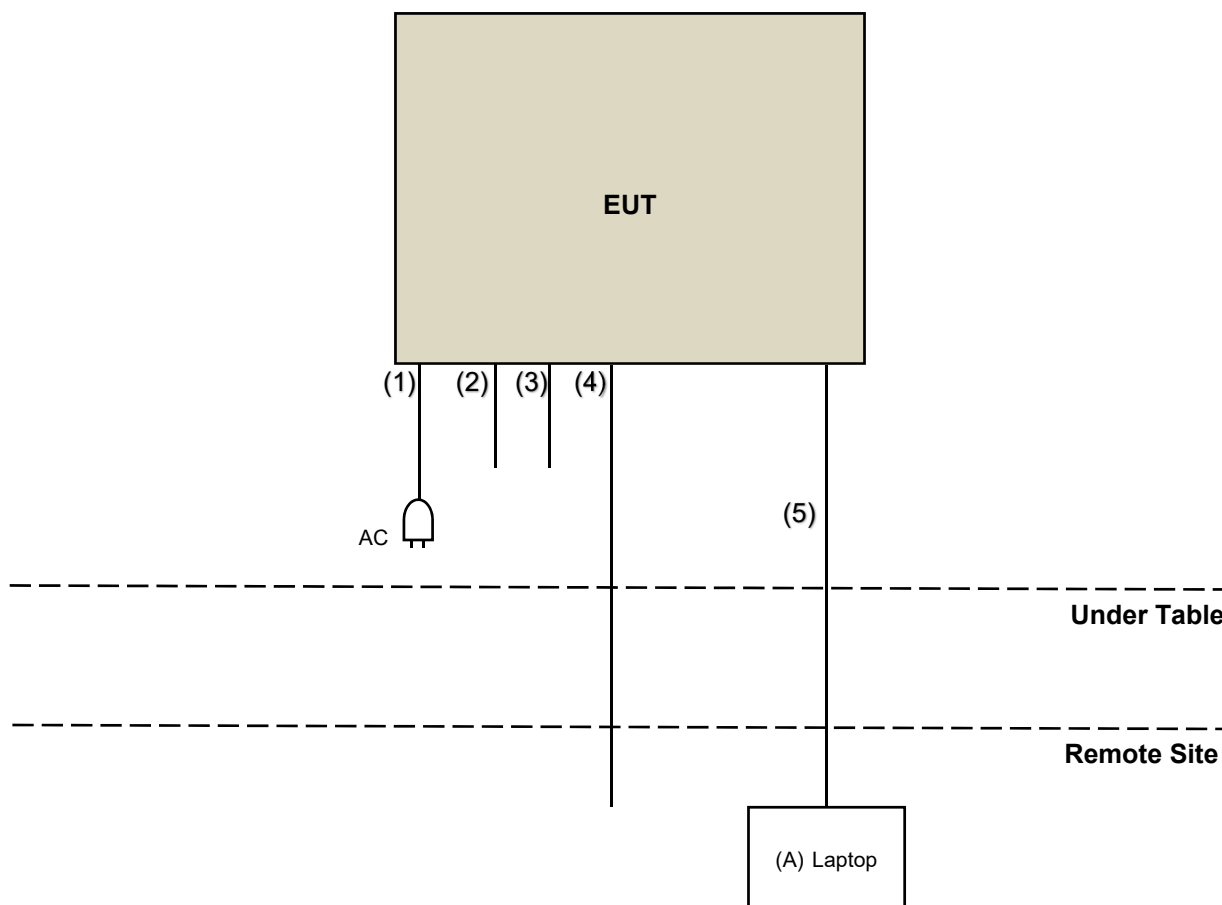


VHT40

3.6 Test Program Used and Operation Descriptions

Controlling software Tera Term Version 4.106 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	HP	NA	NA	NA	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	AC Power Cable	1	1.5	No	0	Supplied by applicant
2	USB Cable	1	1.5	No	0	Provided by Lab
3	Fiber Cable	1	10	No	0	Provided by Lab
4	Ground Cable	1	2	No	0	Supplied by applicant
5	LAN Cable	1	6	No	0	Provided by Lab

4 Test Instruments

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

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Peak Power Analyzer Keysight	8990B	MY51000485	2025/1/20	2026/1/19
Wideband Power Sensor Keysight	N1923A	MY58020002	2025/1/21	2026/1/20
		MY58140009	2025/1/21	2026/1/20

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/12/9

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/12/9

4.3 6 dB Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get the tested date and information of the instruments.

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance HUBER+SUHNER	E1-011276	01	2025/2/11	2026/2/10
	E1-011277	02	2025/10/31	2026/10/30
	E1-011313	11	2025/2/11	2026/2/10
DC LISN Schwarzbeck	NNBM 8126G	8126G-069	2025/11/3	2026/11/2
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01617	2025/8/23	2026/8/22
EMI Test Receiver R&S	ESR3	102982	2025/5/29	2026/5/28
LISN R&S	ESH2-Z5	100100	2025/3/5	2026/3/4
	ESH3-Z5	100312	2025/8/29	2026/8/28
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2025/8/23	2026/8/22
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2025/8/27	2026/8/26

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2025/12/5

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-160	2025/9/16	2026/9/15
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
Preamplifier Agilent	8447D	2944A10638	2025/4/27	2026/4/26
Preamplifier EMCI	EMC001340	980201	2025/9/21	2026/9/20
RF Coaxial Cable Woken	8D-FB	Cable-CH9-01	2025/4/27	2026/4/26
Signal & Spectrum Analyzer R&S	FSW43	101866	2025/3/25	2026/3/24
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2025/12/5

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1169	2025/11/9	2026/11/8
	BBHA 9170	9170-480	2025/11/9	2026/11/8
		BBHA9170243	2025/11/9	2026/11/8
Preamplifier Agilent	8449B	3008A02367	2025/1/5	2026/1/4
Preamplifier EMCI	EMC 184045	980116	2025/9/21	2026/9/20
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2025/6/30	2026/6/29
	EMC102-KM-KM-3000	150929	2025/6/30	2026/6/29
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2025/1/5	2026/1/4
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2025/1/5	2026/1/4
Signal & Spectrum Analyzer R&S	FSW43	101866	2025/3/25	2026/3/24
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2025/12/4 ~ 2025/12/5

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

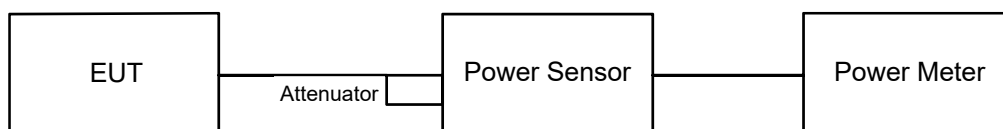
Notes:

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.

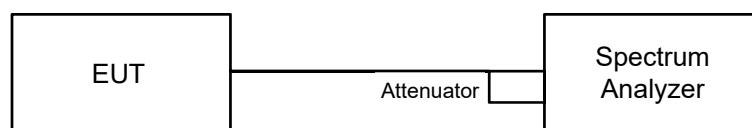
The power meter video bandwidth is greater than or equal to the DTS bandwidth and use a fast responding diode detector.

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

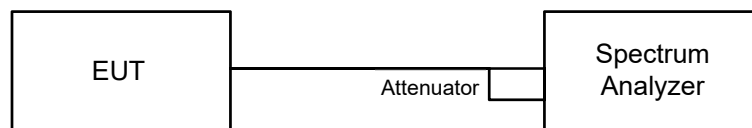


6.2.2 Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span > 1.5 times the DTS bandwidth.
- Set the RBW to: 3 kHz.
- Set the VBW $\geq 3 \times$ RBW.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- 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

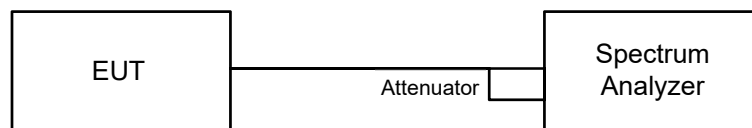


6.3.2 Test Procedure

- a. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b. Set the VBW $\geq [3 \times \text{RBW}]$.
- c. Detector = peak.
- d. Trace mode = max-hold.
- e. Sweep = No faster than coupled (auto) time.
- f. Allow the trace to stabilize.
- g. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

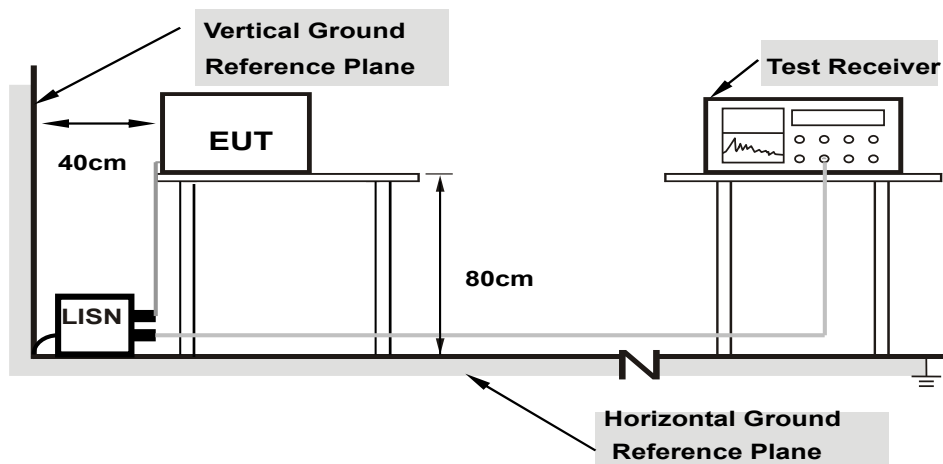
- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

MEASUREMENT PROCEDURE OOB

- Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.
- Set RBW = 100 kHz.
- Set VBW ≥ 300 kHz.
- Detector = peak.
- Sweep = No faster than coupled (auto) time.
- 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

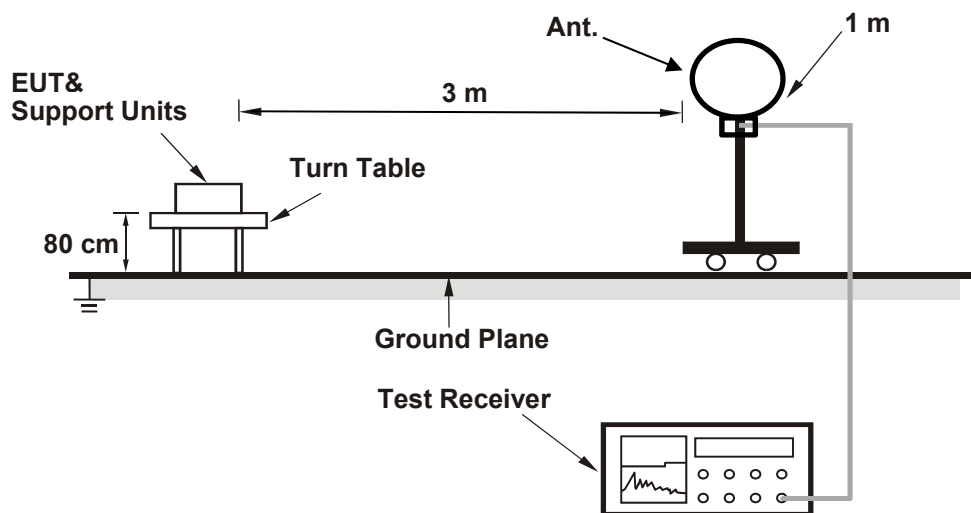
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The 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.

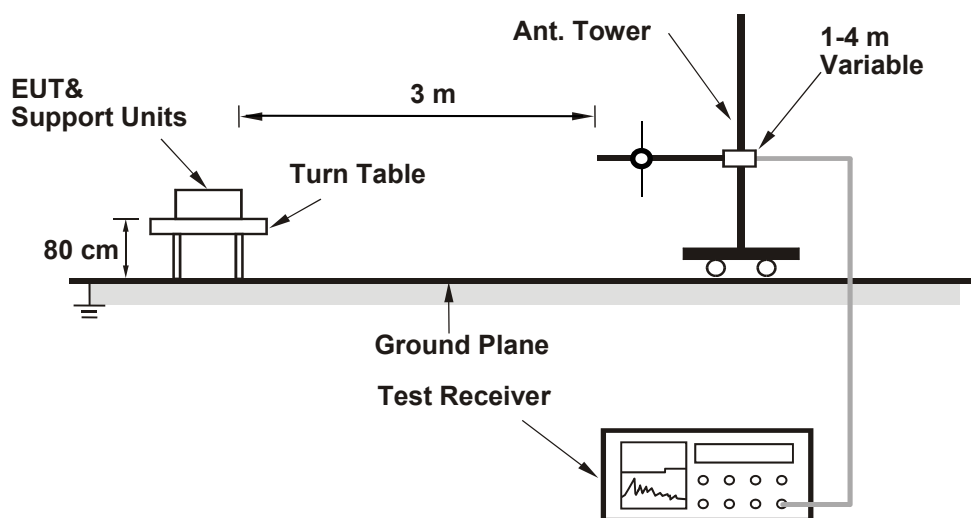
6.6 Unwanted Emissions below 1 GHz

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

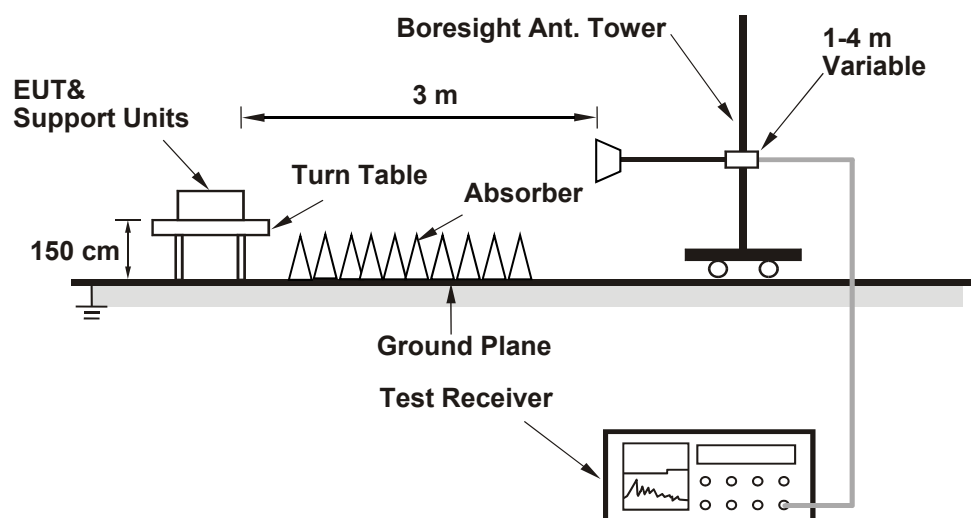
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequencies less than or equal to 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

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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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	85.31	19.31	30	Pass
6	2437	76.913	18.86	30	Pass
11	2462	56.364	17.51	30	Pass
12	2467	37.239	15.71	30	Pass
13	2472	16.866	12.27	30	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 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	153.109	21.85	30	Pass
6	2437	142.233	21.53	30	Pass
11	2462	110.662	20.44	30	Pass
12	2467	74.817	18.74	30	Pass
13	2472	65.464	18.16	30	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 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	139.637	21.45	30	Pass
6	2437	138.995	21.43	30	Pass
11	2462	93.325	19.70	30	Pass
12	2467	59.156	17.72	30	Pass
13	2472	41.495	16.18	30	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
3	2422	103.039	20.13	30	Pass
6	2437	110.917	20.45	30	Pass
9	2452	85.704	19.33	30	Pass
10	2457	84.14	19.25	30	Pass
11	2462	74.817	18.74	30	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

VHT20

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
1	2412	142.889	21.55	30	Pass
6	2437	142.233	21.53	30	Pass
11	2462	94.624	19.76	30	Pass
12	2467	59.979	17.78	30	Pass
13	2472	42.073	16.24	30	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

VHT40

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
3	2422	105.196	20.22	30	Pass
6	2437	112.72	20.52	30	Pass
9	2452	86.896	19.39	30	Pass
10	2457	86.099	19.35	30	Pass
11	2462	76.033	18.81	30	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 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	48.195	16.83
6	2437	42.756	16.31
11	2462	31.842	15.03
12	2467	20.845	13.19
13	2472	9.311	9.69

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	49.204	16.92
6	2437	43.853	16.42
11	2462	26.002	14.15
12	2467	15.776	11.98
13	2472	8.75	9.42

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	44.157	16.45
6	2437	44.055	16.44
11	2462	23.55	13.72
12	2467	14.289	11.55
13	2472	7.727	8.88

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
3	2422	23.55	13.72
6	2437	27.102	14.33
9	2452	16.711	12.23
10	2457	16.52	12.18
11	2462	14.191	11.52

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	45.29	16.56
6	2437	44.875	16.52
11	2462	23.878	13.78
12	2467	14.454	11.60
13	2472	7.816	8.93

VHT40

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
3	2422	23.768	13.76
6	2437	27.542	14.40
9	2452	16.866	12.27
10	2457	16.788	12.25
11	2462	14.355	11.57

7.2 Power Spectral Density

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-6.17	8	Pass
6	2437	-6.65	8	Pass
11	2462	-8.04	8	Pass
12	2467	-10.04	8	Pass
13	2472	-13.51	8	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 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	-8.20	8	Pass
6	2437	-8.53	8	Pass
11	2462	-9.64	8	Pass
12	2467	-12.01	8	Pass
13	2472	-13.25	8	Pass

Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

VHT20

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-9.48	8	Pass
6	2437	-9.52	8	Pass
11	2462	-11.25	8	Pass
12	2467	-13.72	8	Pass
13	2472	-15.05	8	Pass

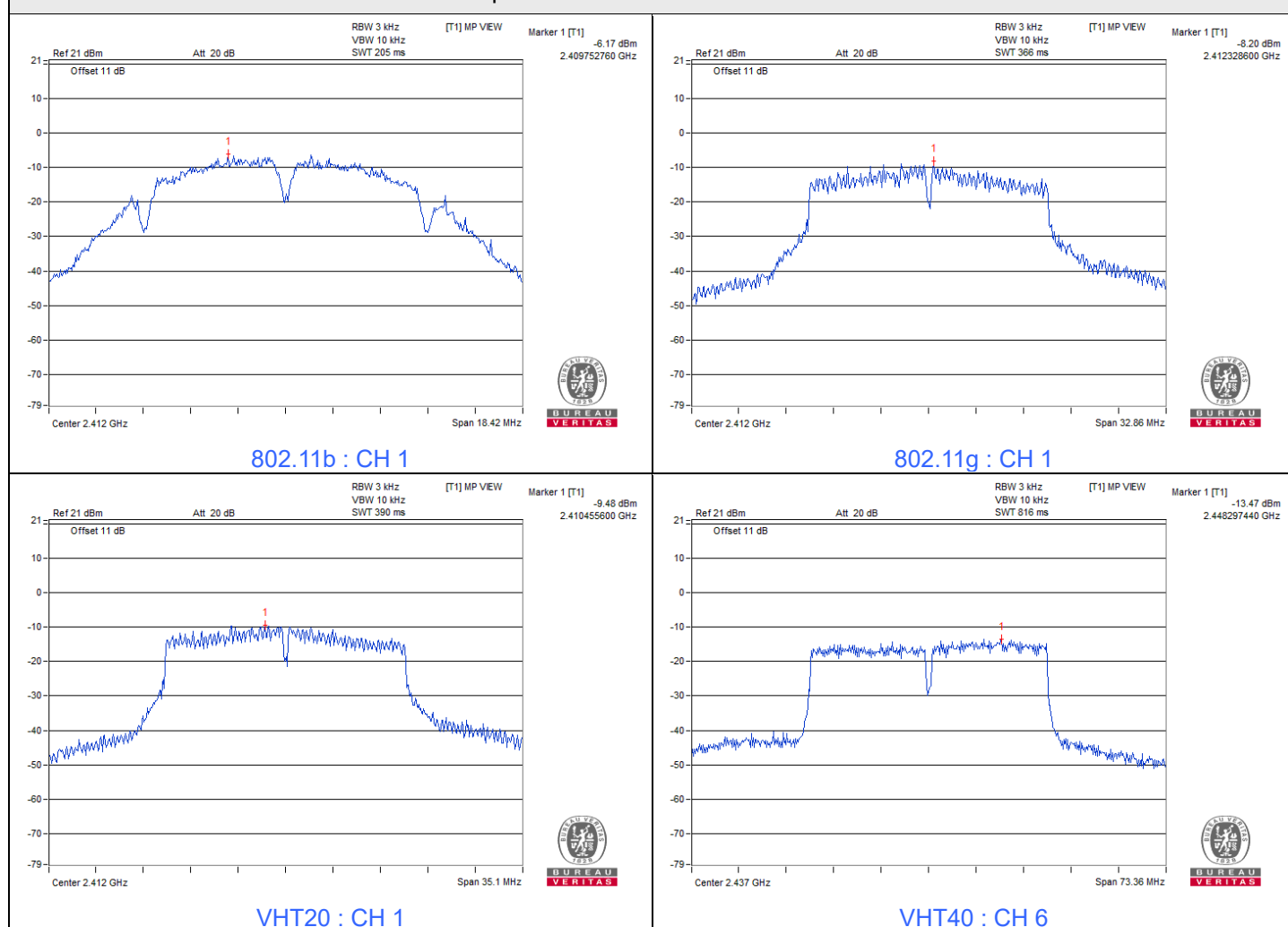
Note: The antenna gain is 5.76 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

VHT40

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
3	2422	-13.95	8	Pass
6	2437	-13.47	8	Pass
9	2452	-14.64	8	Pass
10	2457	-14.64	8	Pass
11	2462	-14.97	8	Pass

Note: The antenna gain is 5.76 dBi <= 6 dBi, so the power density limit shall not be reduced.

Spectrum Plot of Maximum Value



7.3 6 dB Bandwidth

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	9.21	0.5	Pass
6	2437	9.23	0.5	Pass
11	2462	8.82	0.5	Pass
12	2467	8.85	0.5	Pass
13	2472	9.28	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	16.43	0.5	Pass
6	2437	16.47	0.5	Pass
11	2462	16.4	0.5	Pass
12	2467	16.55	0.5	Pass
13	2472	16.52	0.5	Pass

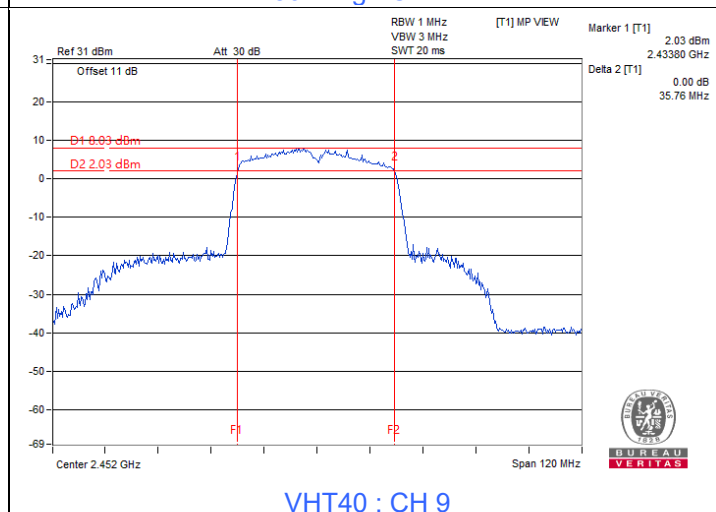
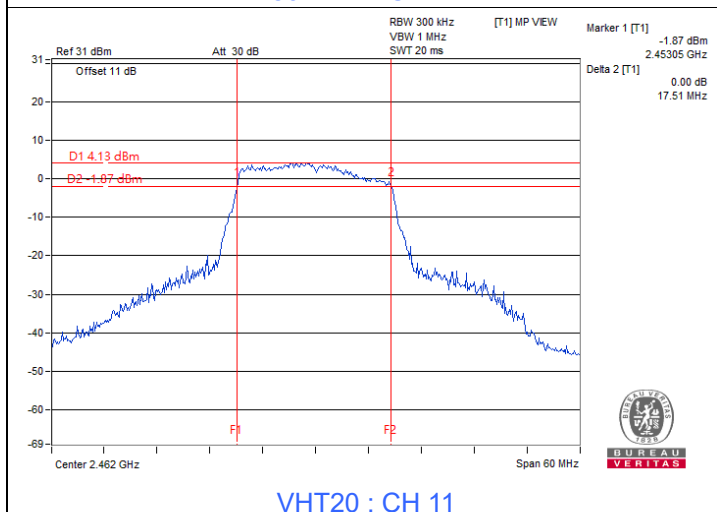
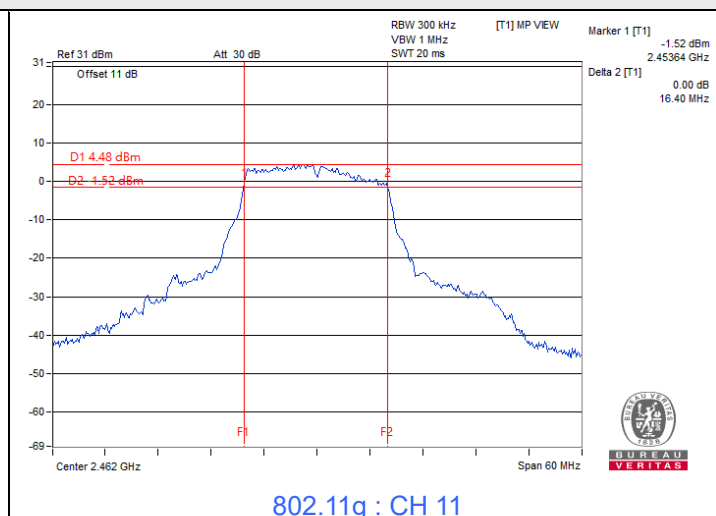
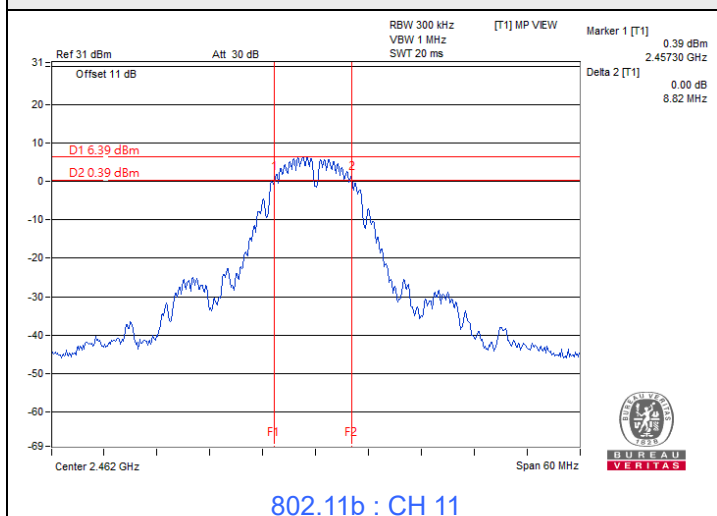
VHT20

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.55	0.5	Pass
6	2437	17.62	0.5	Pass
11	2462	17.51	0.5	Pass
12	2467	17.68	0.5	Pass
13	2472	17.77	0.5	Pass

VHT40

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
3	2422	36.81	0.5	Pass
6	2437	36.68	0.5	Pass
9	2452	35.76	0.5	Pass
10	2457	35.96	0.5	Pass
11	2462	36.27	0.5	Pass

Spectrum Plot of Minimum Value

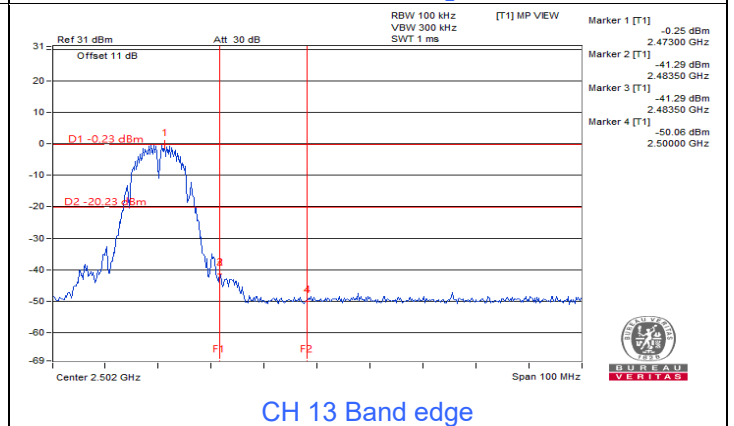
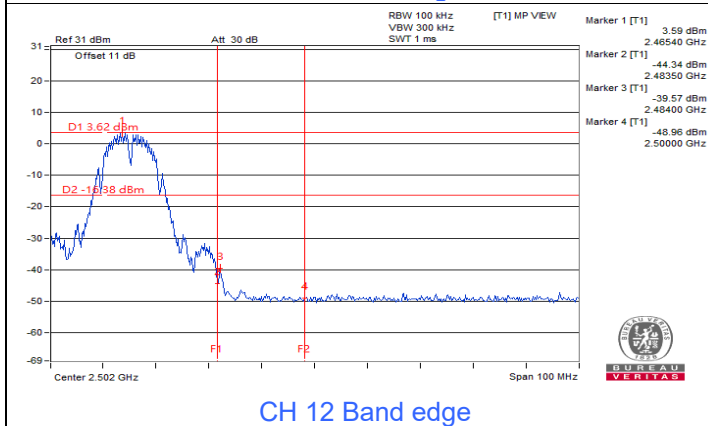
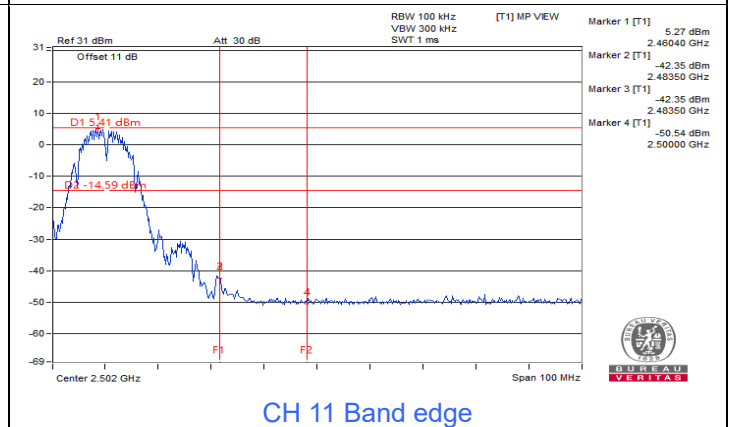
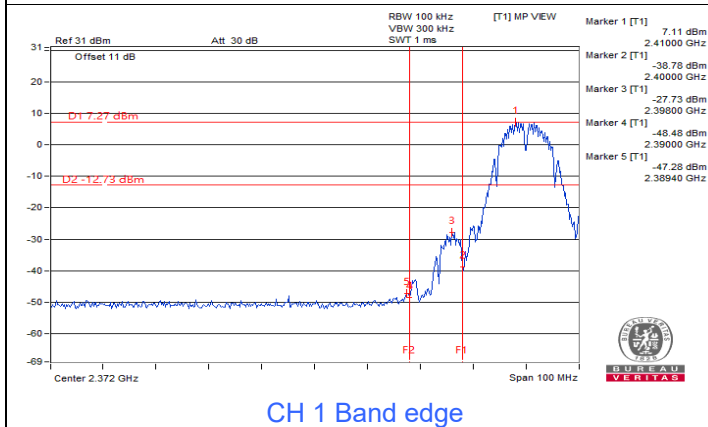
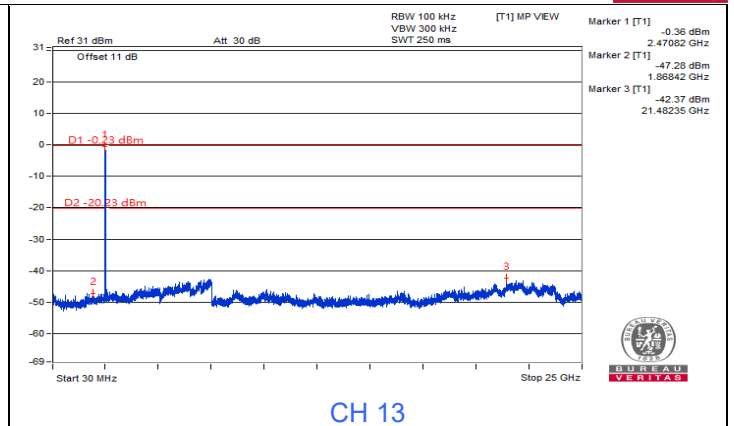
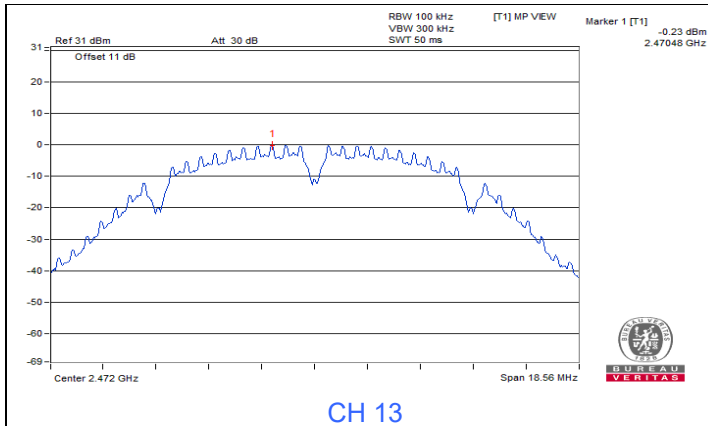


7.4 Conducted Out of Band Emissions

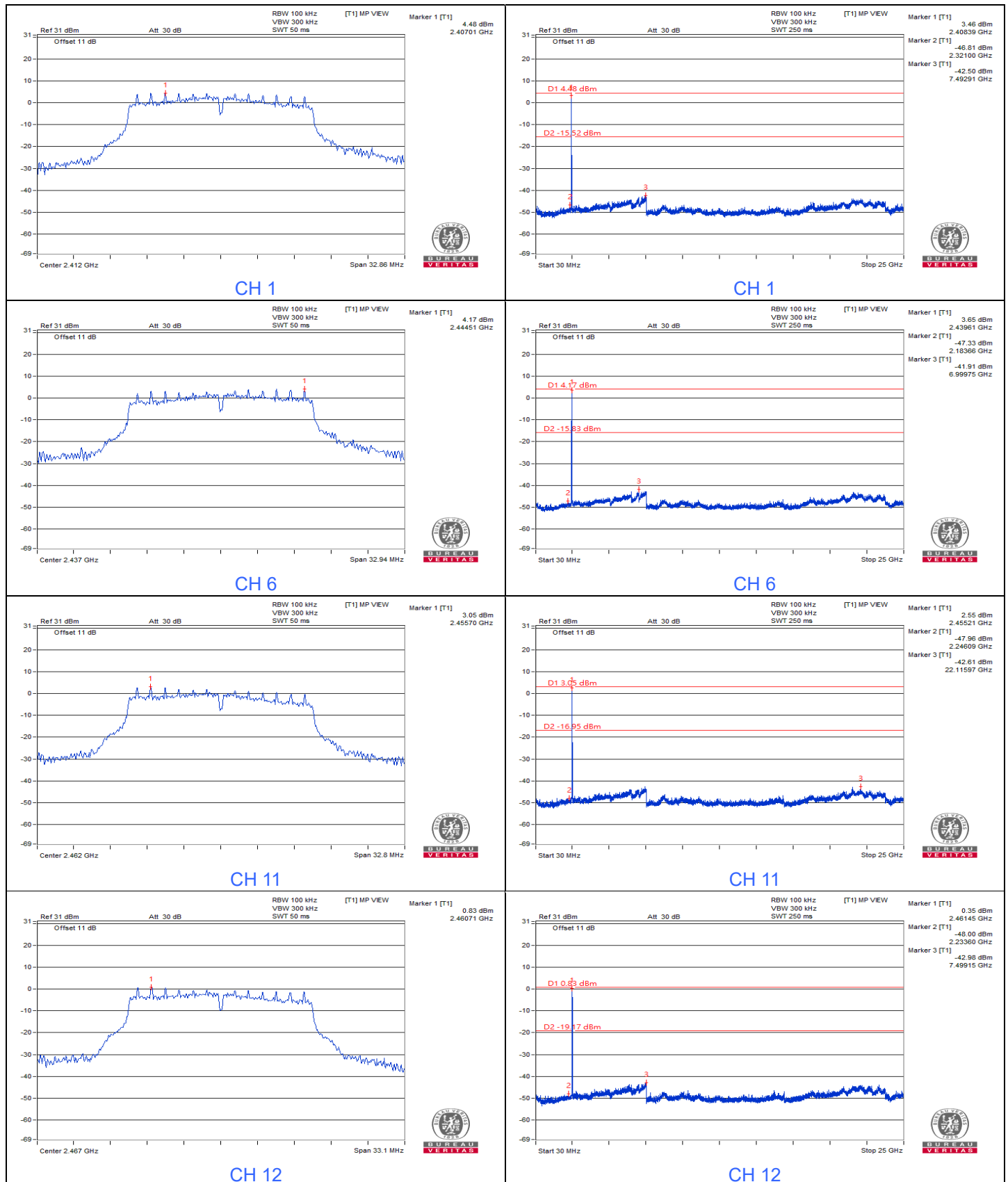
Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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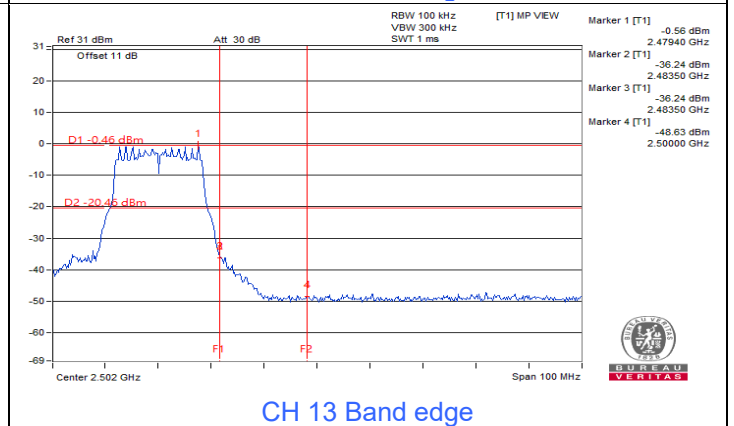
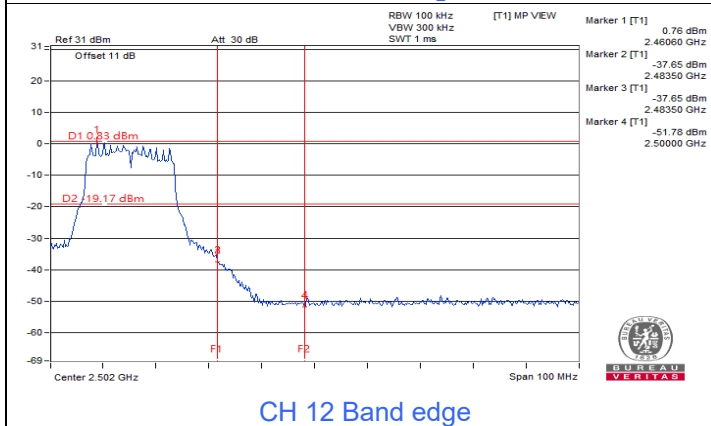
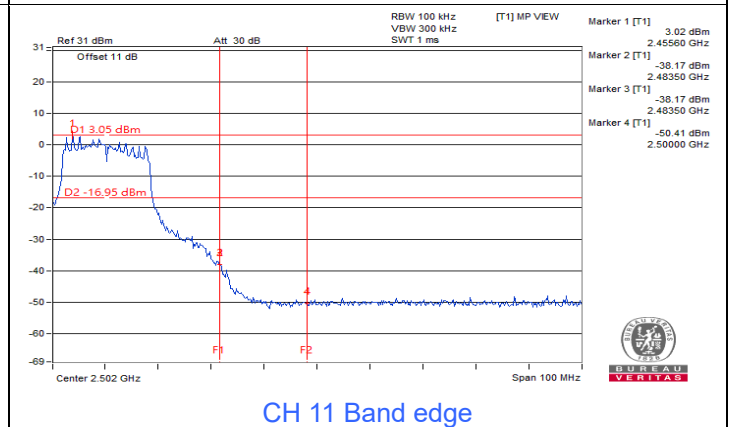
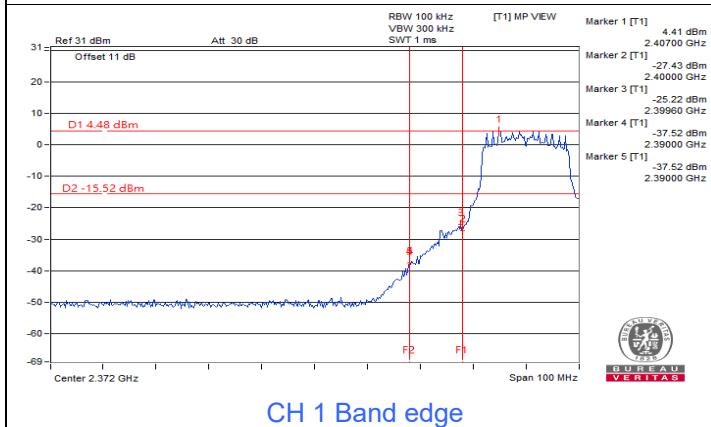
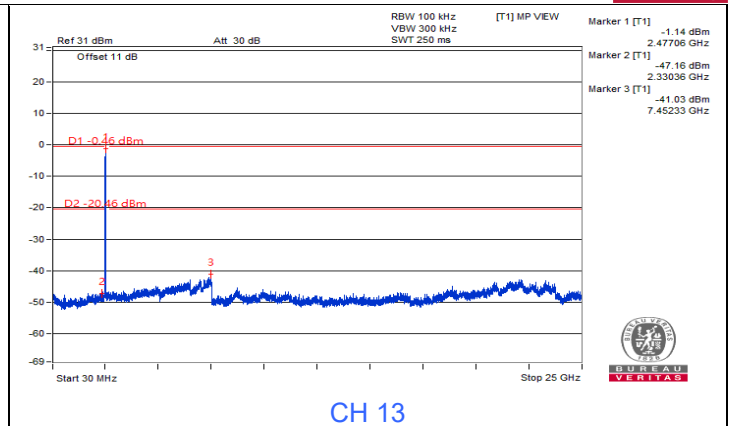
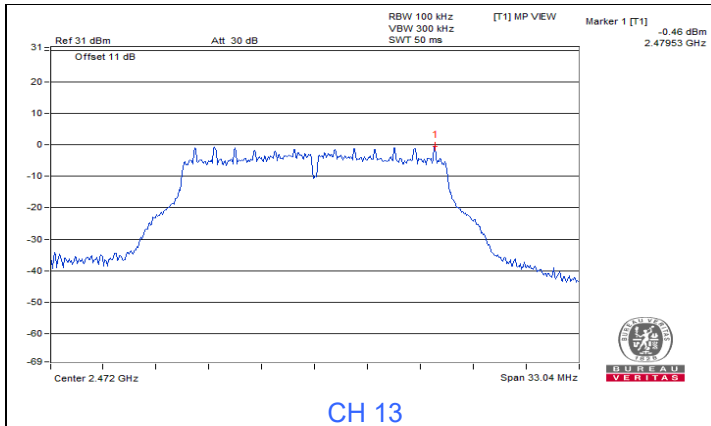
802.11b



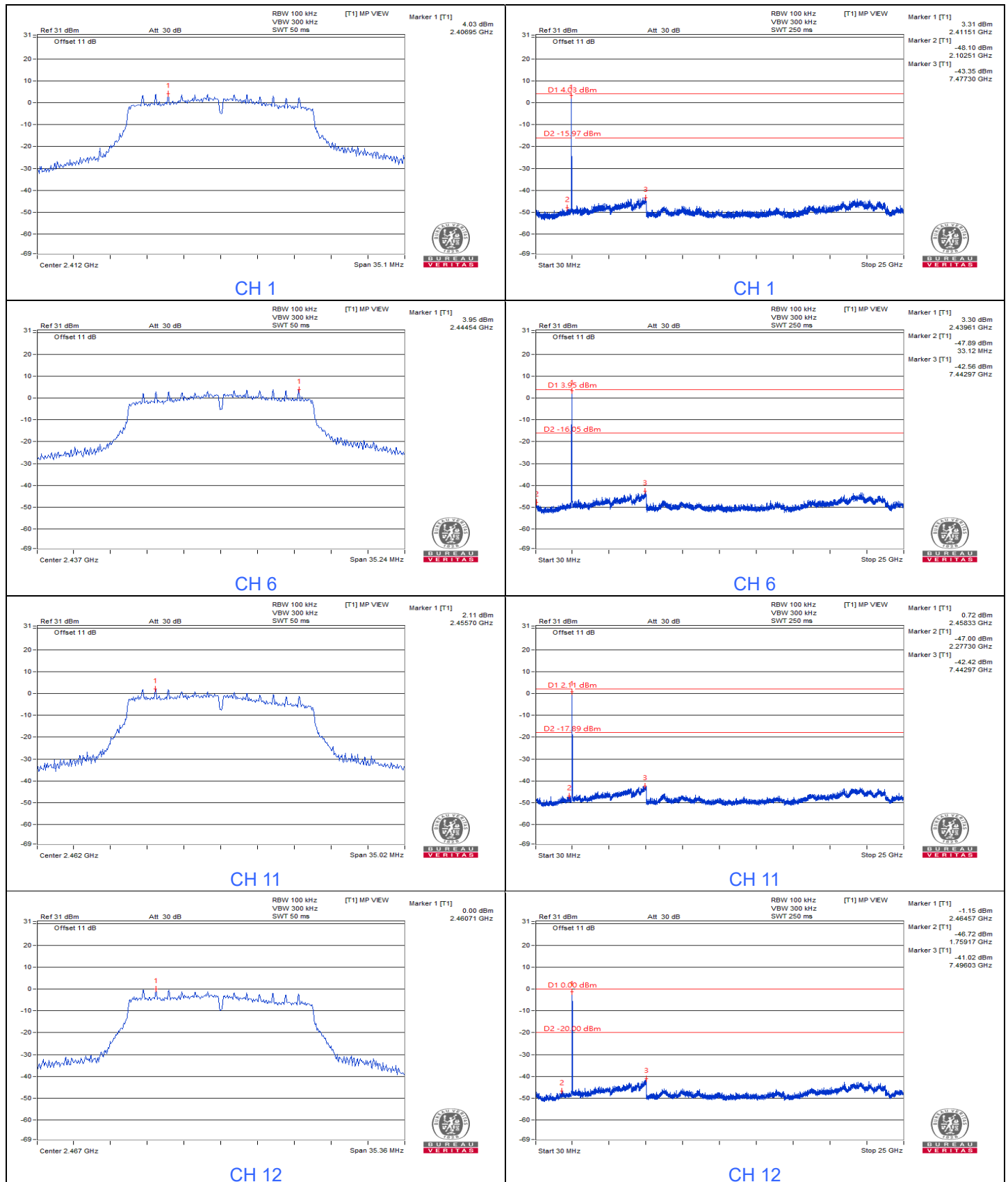


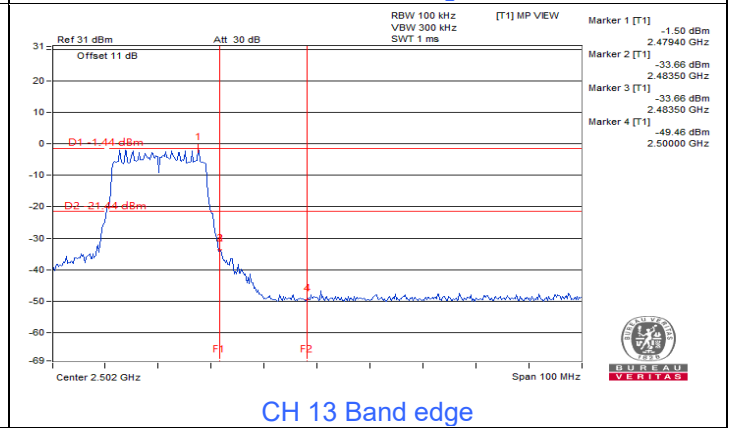
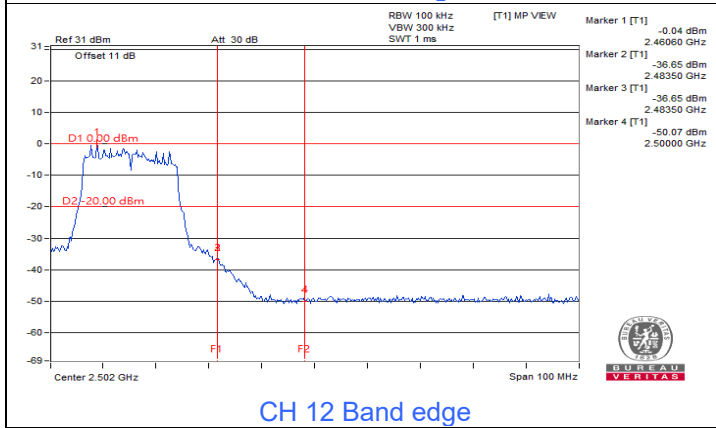
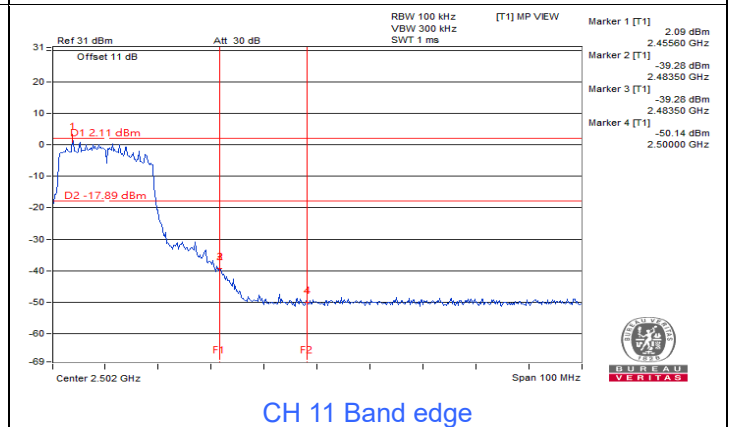
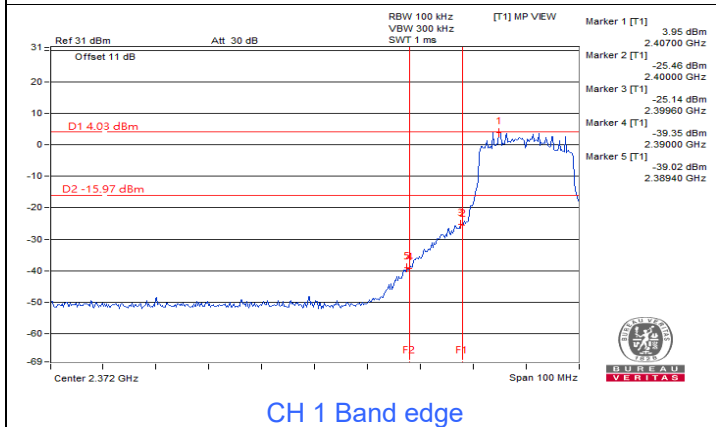
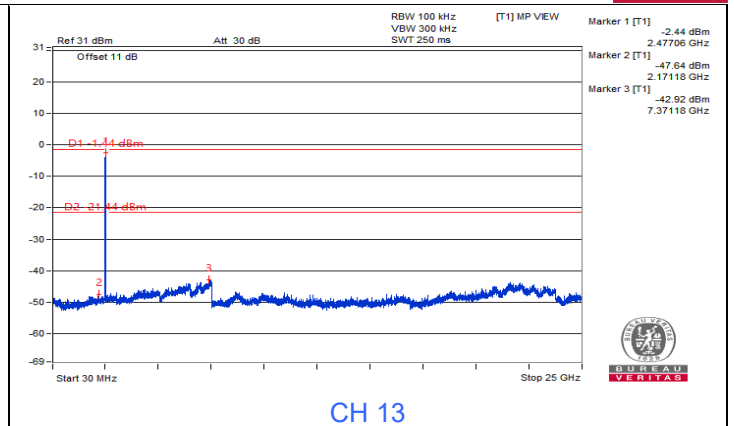
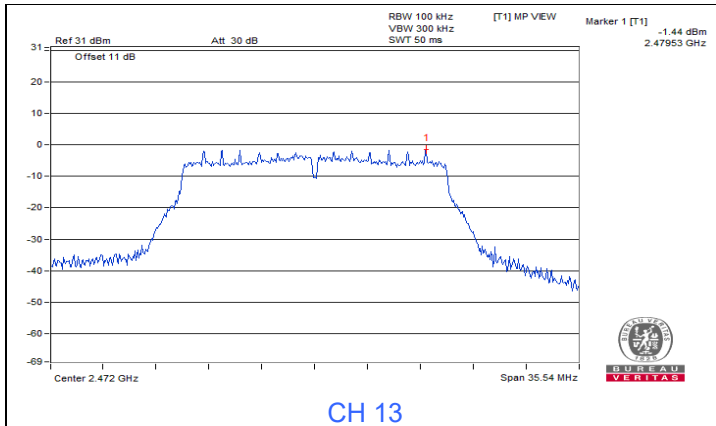
802.11g



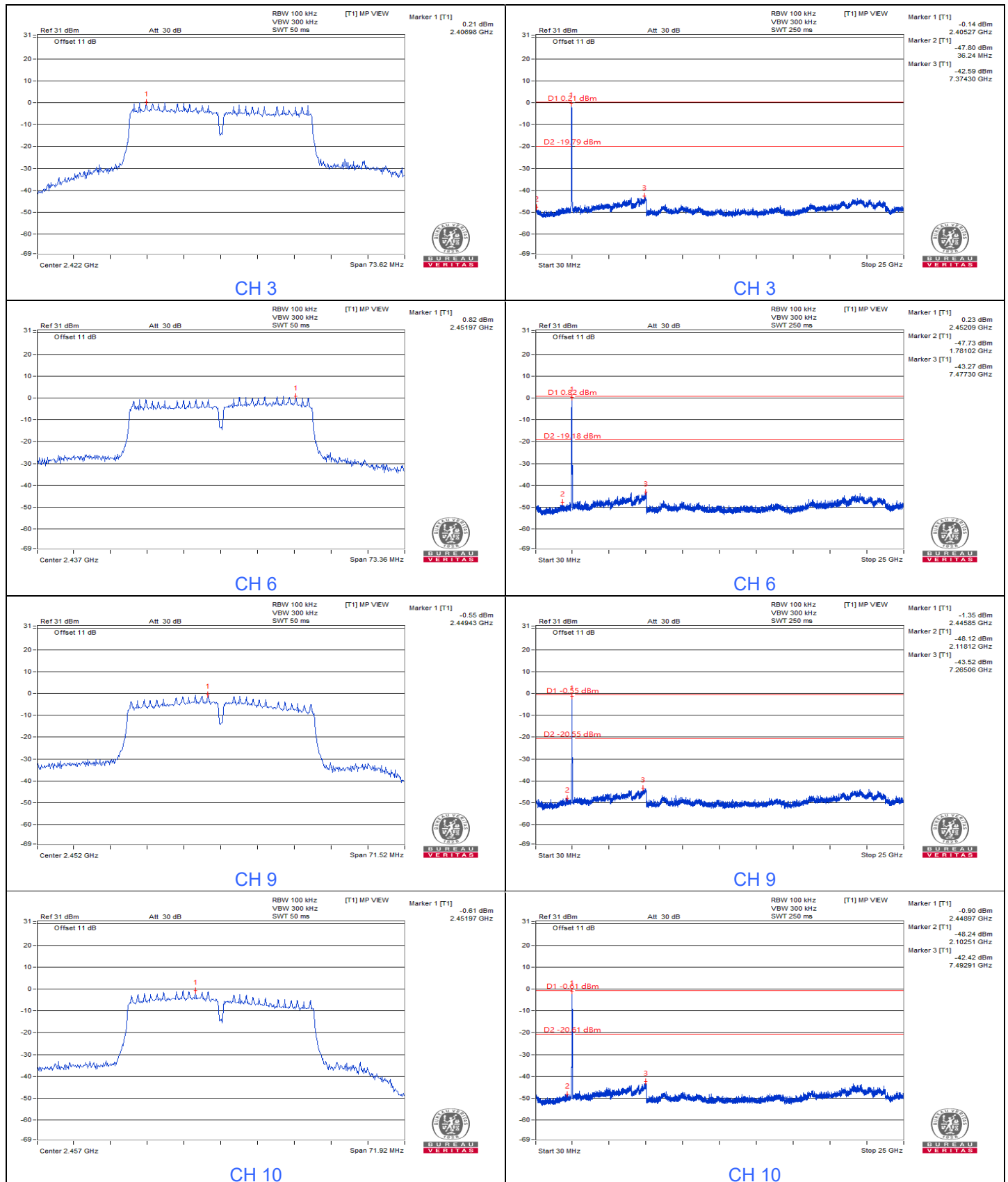


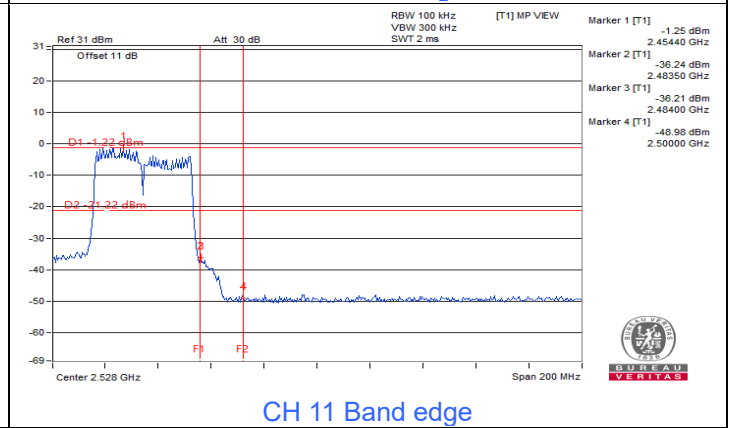
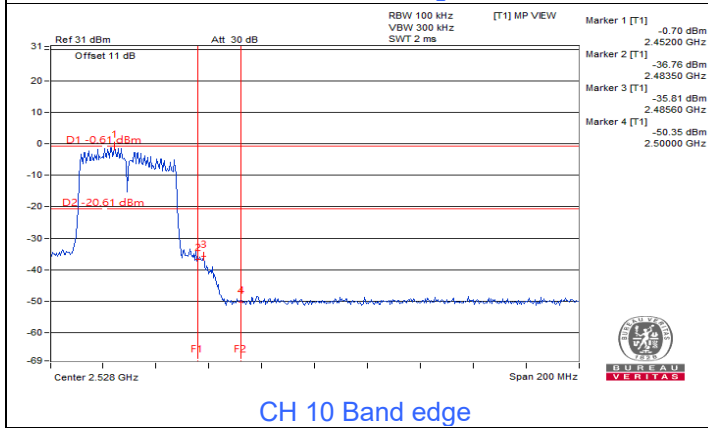
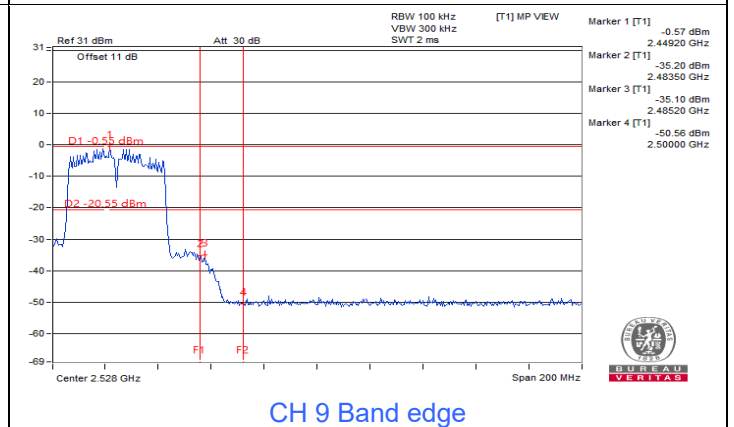
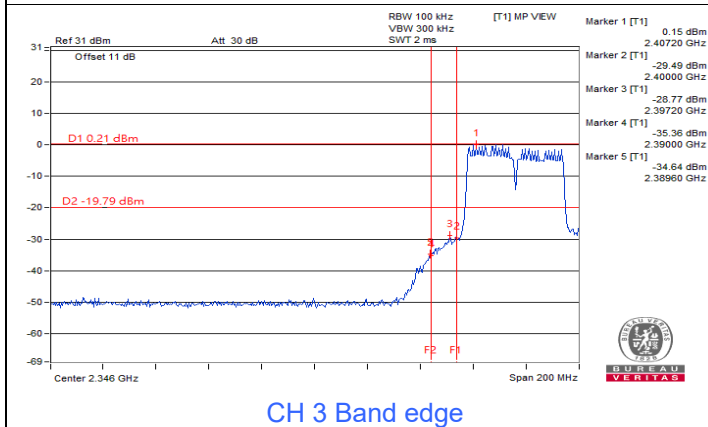
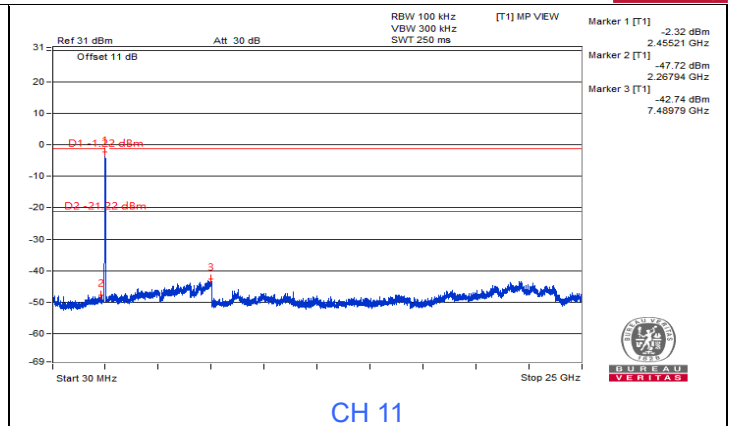
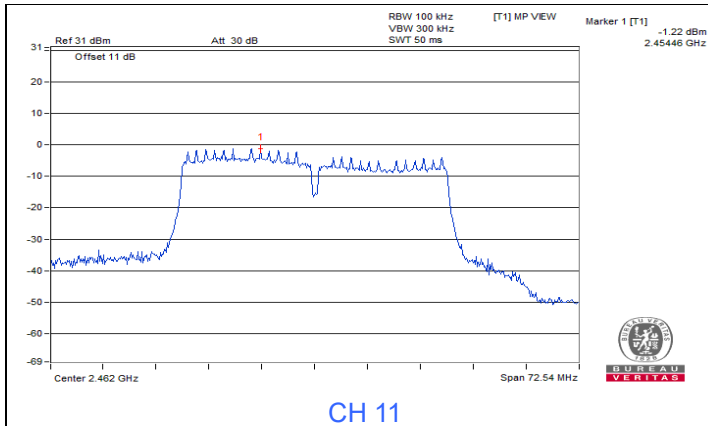
VHT20





VHT40





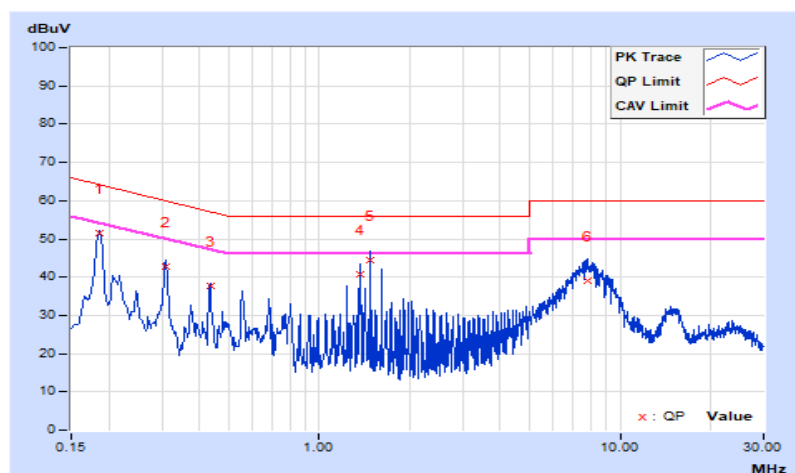
7.5 AC Power Conducted Emissions

RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Rex Wang		

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	0.18600	10.21	41.39	40.82	51.60	51.03	64.21	54.21	-12.61	-3.18
2	0.31000	10.29	32.58	31.70	42.87	41.99	59.97	49.97	-17.10	-7.98
3	0.43371	10.35	27.23	26.43	37.58	36.78	57.18	47.18	-19.60	-10.40
4	1.36200	10.44	30.29	13.25	40.73	23.69	56.00	46.00	-15.27	-22.31
5	1.48600	10.44	33.92	14.63	44.36	25.07	56.00	46.00	-11.64	-20.93
6	7.83000	10.64	28.53	19.28	39.17	29.92	60.00	50.00	-20.83	-20.08

Remarks:

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

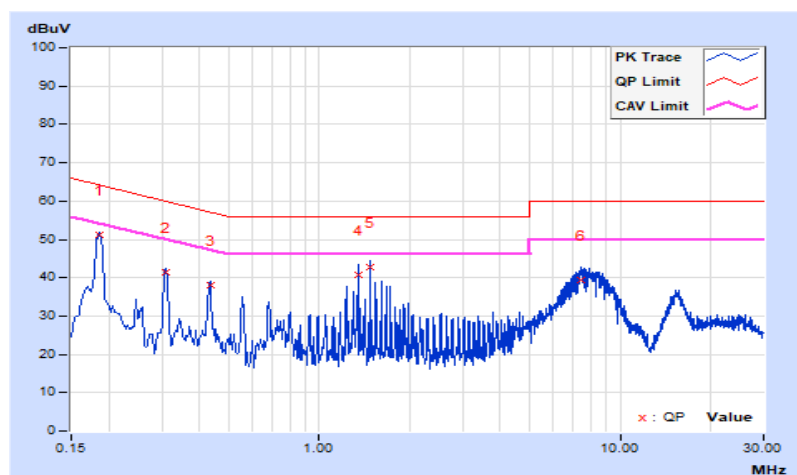


RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Rex Wang		

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	0.18568	10.25	40.98	40.54	51.23	50.79	64.23	54.23	-13.00	-3.44
2	0.30793	10.31	31.23	30.11	41.54	40.42	60.03	50.03	-18.49	-9.61
3	0.43371	10.38	27.57	25.77	37.95	36.15	57.18	47.18	-19.23	-11.03
4	1.35800	10.47	30.24	12.12	40.71	22.59	56.00	46.00	-15.29	-23.41
5	1.48200	10.47	32.23	14.28	42.70	24.75	56.00	46.00	-13.30	-21.25
6	7.41400	10.72	28.56	18.39	39.28	29.11	60.00	50.00	-20.72	-20.89

Remarks:

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



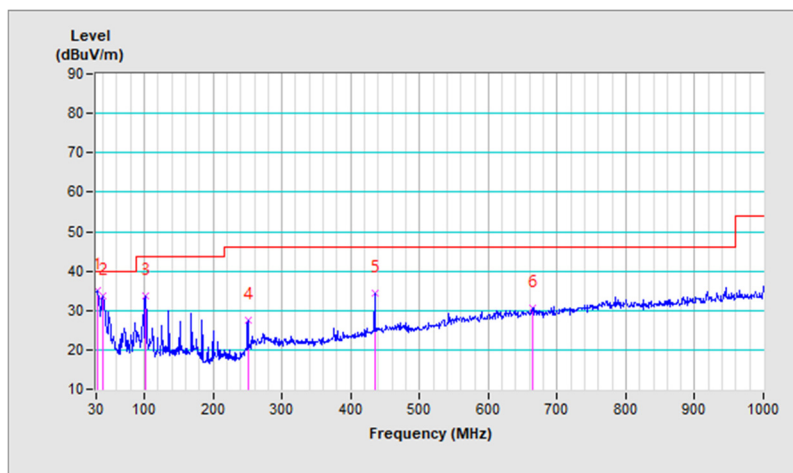
7.6 Unwanted Emissions below 1 GHz

RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

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	31.94	35.2 QP	40.0	-4.8	1.51 H	197	45.4	-10.2
2	39.70	33.8 QP	40.0	-6.2	1.00 H	340	43.2	-9.4
3	100.81	33.6 QP	43.5	-9.9	2.00 H	289	46.4	-12.8
4	250.19	27.5 QP	46.0	-18.5	1.00 H	218	35.9	-8.4
5	434.49	34.3 QP	46.0	-11.7	2.00 H	145	37.5	-3.2
6	664.38	30.6 QP	46.0	-15.4	1.51 H	196	29.8	0.8

Remarks:

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

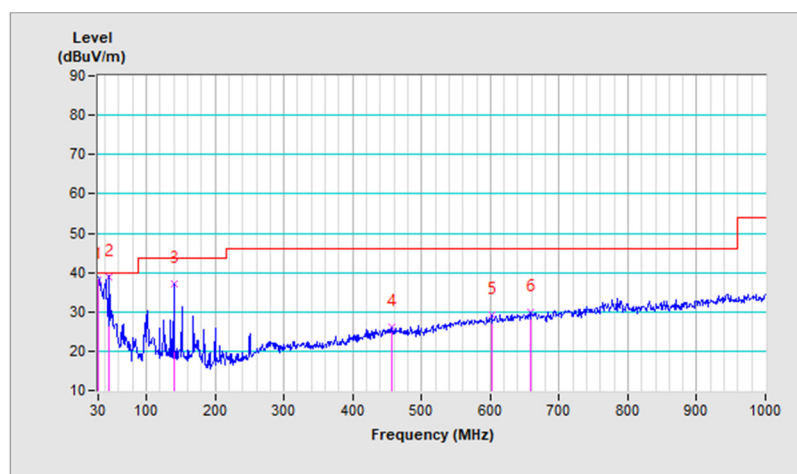


RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

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	38.2 QP	40.0	-1.8	1.50 V	307	48.3	-10.1
2	45.52	38.7 QP	40.0	-1.3	2.00 V	10	47.5	-8.8
3	139.61	37.2 QP	43.5	-6.3	1.00 V	175	45.9	-8.7
4	457.77	26.1 QP	46.0	-19.9	2.00 V	228	29.1	-3.0
5	602.30	29.1 QP	46.0	-16.9	1.50 V	156	29.3	-0.2
6	659.53	30.0 QP	46.0	-16.0	1.00 V	343	29.4	0.6

Remarks:

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



7.7 Unwanted Emissions above 1 GHz

RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

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	60.2 PK	74.0	-13.8	1.16 H	211	26.0	34.2
2	2390.00	47.4 AV	54.0	-6.6	1.16 H	211	13.2	34.2
3	*2412.00	104.0 PK			1.16 H	211	69.9	34.1
4	*2412.00	101.5 AV			1.16 H	211	67.4	34.1
5	4824.00	50.4 PK	74.0	-23.6	1.92 H	177	39.8	10.6
6	4824.00	37.0 AV	54.0	-17.0	1.92 H	177	26.4	10.6
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	60.9 PK	74.0	-13.1	1.41 V	247	26.7	34.2
2	2390.00	49.3 AV	54.0	-4.7	1.41 V	247	15.1	34.2
3	*2412.00	106.8 PK			1.41 V	247	72.7	34.1
4	*2412.00	104.4 AV			1.41 V	247	70.3	34.1
5	4824.00	50.5 PK	74.0	-23.5	1.79 V	343	39.9	10.6
6	4824.00	37.2 AV	54.0	-16.8	1.79 V	343	26.6	10.6

Remarks:

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

RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

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	*2437.00	105.4 PK			1.19 H	213	71.3	34.1
2	*2437.00	102.9 AV			1.19 H	213	68.8	34.1
3	4874.00	50.2 PK	74.0	-23.8	1.88 H	179	39.6	10.6
4	4874.00	37.0 AV	54.0	-17.0	1.88 H	179	26.4	10.6
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	*2437.00	106.6 PK			1.25 V	244	72.5	34.1
2	*2437.00	104.1 AV			1.25 V	244	70.0	34.1
3	4874.00	50.6 PK	74.0	-23.4	1.81 V	336	40.0	10.6
4	4874.00	37.5 AV	54.0	-16.5	1.81 V	336	26.9	10.6

Remarks:

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

RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

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	104.9 PK			1.20 H	214	70.8	34.1
2	*2462.00	102.4 AV			1.20 H	214	68.3	34.1
3	2483.50	61.9 PK	74.0	-12.1	1.20 H	214	27.8	34.1
4	2483.50	52.9 AV	54.0	-1.1	1.20 H	214	18.8	34.1
5	4924.00	50.4 PK	74.0	-23.6	1.94 H	180	39.7	10.7
6	4924.00	37.1 AV	54.0	-16.9	1.94 H	180	26.4	10.7
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	105.6 PK			1.47 V	250	71.5	34.1
2	*2462.00	103.0 AV			1.47 V	250	68.9	34.1
3	2483.50	62.1 PK	74.0	-11.9	1.47 V	250	28.0	34.1
4	2483.50	53.0 AV	54.0	-1.0	1.47 V	250	18.9	34.1
5	4924.00	50.6 PK	74.0	-23.4	1.78 V	339	39.9	10.7
6	4924.00	37.2 AV	54.0	-16.8	1.78 V	339	26.5	10.7

Remarks:

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

RF Mode	802.11b	Channel	CH 12 : 2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	103.0 PK			1.10 H	212	68.9	34.1
2	*2467.00	100.5 AV			1.10 H	212	66.4	34.1
3	2484.10	63.0 PK	74.0	-11.0	1.10 H	212	28.9	34.1
4	2484.10	53.6 AV	54.0	-0.4	1.10 H	212	19.5	34.1
5	4934.00	50.2 PK	74.0	-23.8	1.84 H	175	39.5	10.7
6	4934.00	37.0 AV	54.0	-17.0	1.84 H	175	26.3	10.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	103.9 PK			1.43 V	250	69.8	34.1
2	*2467.00	101.4 AV			1.43 V	250	67.3	34.1
3	2484.10	63.1 PK	74.0	-10.9	1.43 V	250	29.0	34.1
4	2484.10	53.7 AV	54.0	-0.3	1.43 V	250	19.6	34.1
5	4934.00	50.4 PK	74.0	-23.6	1.73 V	343	39.7	10.7
6	4934.00	37.2 AV	54.0	-16.8	1.73 V	343	26.5	10.7

Remarks:

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

RF Mode	802.11b	Channel	CH 13 : 2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	98.4 PK			1.07 H	210	64.3	34.1
2	*2472.00	95.9 AV			1.07 H	210	61.8	34.1
3	2485.60	62.3 PK	74.0	-11.7	1.07 H	210	28.2	34.1
4	2485.60	52.8 AV	54.0	-1.2	1.07 H	210	18.7	34.1
5	4944.00	50.1 PK	74.0	-23.9	1.91 H	182	39.4	10.7
6	4944.00	37.0 AV	54.0	-17.0	1.91 H	182	26.3	10.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	99.5 PK			1.45 V	246	65.4	34.1
2	*2472.00	96.9 AV			1.45 V	246	62.8	34.1
3	2485.60	62.6 PK	74.0	-11.4	1.45 V	246	28.5	34.1
4	2485.60	53.3 AV	54.0	-0.7	1.45 V	246	19.2	34.1
5	4944.00	50.2 PK	74.0	-23.8	1.77 V	334	39.5	10.7
6	4944.00	37.1 AV	54.0	-16.9	1.77 V	334	26.4	10.7

Remarks:

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

RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	67.3 PK	74.0	-6.7	1.13 H	213	33.1	34.2
2	2390.00	50.4 AV	54.0	-3.6	1.13 H	213	16.2	34.2
3	*2412.00	107.4 PK			1.13 H	213	73.3	34.1
4	*2412.00	98.0 AV			1.13 H	213	63.9	34.1
5	4824.00	50.2 PK	74.0	-23.8	1.94 H	177	39.6	10.6
6	4824.00	37.0 AV	54.0	-17.0	1.94 H	177	26.4	10.6
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	69.3 PK	74.0	-4.7	1.45 V	347	35.1	34.2
2	2390.00	51.9 AV	54.0	-2.1	1.45 V	347	17.7	34.2
3	*2412.00	109.1 PK			1.45 V	247	75.0	34.1
4	*2412.00	99.9 AV			1.45 V	247	65.8	34.1
5	4824.00	50.4 PK	74.0	-23.6	1.80 V	344	39.8	10.6
6	4824.00	37.2 AV	54.0	-16.8	1.80 V	344	26.6	10.6

Remarks:

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

RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	*2437.00	110.0 PK			1.10 H	212	75.9	34.1
2	*2437.00	100.4 AV			1.10 H	212	66.3	34.1
3	4874.00	50.4 PK	74.0	-23.6	1.92 H	175	39.8	10.6
4	4874.00	37.0 AV	54.0	-17.0	1.92 H	175	26.4	10.6
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	*2437.00	110.4 PK			1.42 V	245	76.3	34.1
2	*2437.00	100.6 AV			1.42 V	245	66.5	34.1
3	4874.00	50.9 PK	74.0	-23.1	1.77 V	345	40.3	10.6
4	4874.00	37.6 AV	54.0	-16.4	1.77 V	345	27.0	10.6

Remarks:

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

RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	107.5 PK			1.09 H	209	73.4	34.1
2	*2462.00	98.1 AV			1.09 H	209	64.0	34.1
3	2483.50	68.2 PK	74.0	-5.8	1.09 H	209	34.1	34.1
4	2483.50	52.6 AV	54.0	-1.4	1.09 H	209	18.5	34.1
5	4924.00	50.1 PK	74.0	-23.9	1.94 H	178	39.4	10.7
6	4924.00	37.0 AV	54.0	-17.0	1.94 H	178	26.3	10.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	107.8 PK			1.36 V	242	73.7	34.1
2	*2462.00	98.4 AV			1.36 V	242	64.3	34.1
3	2483.50	69.7 PK	74.0	-4.3	1.36 V	242	35.6	34.1
4	2483.50	53.1 AV	54.0	-0.9	1.36 V	242	19.0	34.1
5	4924.00	50.4 PK	74.0	-23.6	1.82 V	340	39.7	10.7
6	4924.00	37.2 AV	54.0	-16.8	1.82 V	340	26.5	10.7

Remarks:

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

RF Mode	802.11g	Channel	CH 12 : 2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	105.3 PK			1.07 H	211	71.2	34.1
2	*2467.00	95.9 AV			1.07 H	211	61.8	34.1
3	2483.50	69.9 PK	74.0	-4.1	1.07 H	211	35.8	34.1
4	2483.50	52.9 AV	54.0	-1.1	1.07 H	211	18.8	34.1
5	4934.00	50.2 PK	74.0	-23.8	1.95 H	176	39.5	10.7
6	4934.00	37.1 AV	54.0	-16.9	1.95 H	176	26.4	10.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	105.6 PK			1.37 V	244	71.5	34.1
2	*2467.00	96.1 AV			1.37 V	244	62.0	34.1
3	2483.50	70.1 PK	74.0	-3.9	1.37 V	244	36.0	34.1
4	2483.50	53.2 AV	54.0	-0.8	1.37 V	244	19.1	34.1
5	4934.00	50.5 PK	74.0	-23.5	1.78 V	344	39.8	10.7
6	4934.00	37.5 AV	54.0	-16.5	1.78 V	344	26.8	10.7

Remarks:

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

RF Mode	802.11g	Channel	CH 13 : 2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	101.5 PK			1.05 H	211	67.4	34.1
2	*2472.00	92.1 AV			1.05 H	211	58.0	34.1
3	2483.50	69.2 PK	74.0	-4.8	1.05 H	211	35.1	34.1
4	2483.50	52.9 AV	54.0	-1.1	1.05 H	211	18.8	34.1
5	4944.00	50.4 PK	74.0	-23.6	1.92 H	178	39.7	10.7
6	4944.00	37.2 AV	54.0	-16.8	1.92 H	178	26.5	10.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	101.9 PK			1.40 V	248	67.8	34.1
2	*2472.00	92.4 AV			1.40 V	248	58.3	34.1
3	2483.50	69.9 PK	74.0	-4.1	1.40 V	248	35.8	34.1
4	2483.50	53.5 AV	54.0	-0.5	1.40 V	248	19.4	34.1
5	4944.00	50.6 PK	74.0	-23.4	1.79 V	345	39.9	10.7
6	4944.00	37.4 AV	54.0	-16.6	1.79 V	345	26.7	10.7

Remarks:

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

RF Mode	VHT20	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	68.6 PK	74.0	-5.4	1.12 H	210	34.4	34.2
2	2390.00	50.9 AV	54.0	-3.1	1.12 H	210	16.7	34.2
3	*2412.00	107.3 PK			1.12 H	210	73.2	34.1
4	*2412.00	97.5 AV			1.12 H	210	63.4	34.1
5	4824.00	50.2 PK	74.0	-23.8	1.90 H	177	39.6	10.6
6	4824.00	37.0 AV	54.0	-17.0	1.90 H	177	26.4	10.6
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	71.5 PK	74.0	-2.5	1.44 V	248	37.3	34.2
2	2390.00	53.5 AV	54.0	-0.5	1.44 V	248	19.3	34.2
3	*2412.00	110.1 PK			1.44 V	248	76.0	34.1
4	*2412.00	99.9 AV			1.44 V	248	65.8	34.1
5	4824.00	50.4 PK	74.0	-23.6	1.79 V	345	39.8	10.6
6	4824.00	37.1 AV	54.0	-16.9	1.79 V	345	26.5	10.6

Remarks:

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

RF Mode	VHT20	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	*2437.00	110.0 PK			1.08 H	211	75.9	34.1
2	*2437.00	100.4 AV			1.08 H	211	66.3	34.1
3	4874.00	50.2 PK	74.0	-23.8	1.95 H	174	39.6	10.6
4	4874.00	37.2 AV	54.0	-16.8	1.95 H	174	26.6	10.6
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	*2437.00	110.4 PK			1.40 V	244	76.3	34.1
2	*2437.00	100.7 AV			1.40 V	244	66.6	34.1
3	4874.00	50.6 PK	74.0	-23.4	1.78 V	342	40.0	10.6
4	4874.00	37.7 AV	54.0	-16.3	1.78 V	342	27.1	10.6

Remarks:

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

RF Mode	VHT20	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	106.9 PK			1.08 H	210	72.8	34.1
2	*2462.00	97.1 AV			1.08 H	210	63.0	34.1
3	2483.50	72.1 PK	74.0	-1.9	1.08 H	210	38.0	34.1
4	2483.50	53.0 AV	54.0	-1.0	1.08 H	210	18.9	34.1
5	4924.00	50.4 PK	74.0	-23.6	1.94 H	177	39.7	10.7
6	4924.00	37.2 AV	54.0	-16.8	1.94 H	177	26.5	10.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	107.9 PK			1.37 V	243	73.8	34.1
2	*2462.00	97.4 AV			1.37 V	243	63.3	34.1
3	2483.50	72.6 PK	74.0	-1.4	1.37 V	243	38.5	34.1
4	2483.50	53.1 AV	54.0	-0.9	1.37 V	243	19.0	34.1
5	4924.00	50.5 PK	74.0	-23.5	1.79 V	346	39.8	10.7
6	4924.00	37.4 AV	54.0	-16.6	1.79 V	346	26.7	10.7

Remarks:

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

RF Mode	VHT20	Channel	CH 12 : 2467 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	104.8 PK			1.06 H	210	70.7	34.1
2	*2467.00	95.0 AV			1.06 H	210	60.9	34.1
3	2483.50	69.0 PK	74.0	-5.0	1.06 H	210	34.9	34.1
4	2483.50	52.7 AV	54.0	-1.3	1.06 H	210	18.6	34.1
5	4924.00	50.2 PK	74.0	-23.8	1.93 H	175	39.5	10.7
6	4924.00	37.0 AV	54.0	-17.0	1.93 H	175	26.3	10.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	104.9 PK			1.34 V	244	70.8	34.1
2	*2467.00	95.4 AV			1.34 V	244	61.3	34.1
3	2483.50	72.5 PK	74.0	-1.5	1.34 V	244	38.4	34.1
4	2483.50	53.0 AV	54.0	-1.0	1.34 V	244	18.9	34.1
5	4924.00	50.5 PK	74.0	-23.5	1.80 V	345	39.8	10.7
6	4924.00	37.4 AV	54.0	-16.6	1.80 V	345	26.7	10.7

Remarks:

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

RF Mode	VHT20	Channel	CH 13 : 2472 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	101.7 PK			1.04 H	211	67.6	34.1
2	*2472.00	91.4 AV			1.04 H	211	57.3	34.1
3	2483.50	70.1 PK	74.0	-3.9	1.04 H	211	36.0	34.1
4	2483.50	53.1 AV	54.0	-0.9	1.04 H	211	19.0	34.1
5	4944.00	50.2 PK	74.0	-23.8	1.97 H	180	39.5	10.7
6	4944.00	37.0 AV	54.0	-17.0	1.97 H	180	26.3	10.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	101.9 PK			1.36 V	243	67.8	34.1
2	*2472.00	91.6 AV			1.36 V	243	57.5	34.1
3	2483.50	70.2 PK	74.0	-3.8	1.36 V	243	36.1	34.1
4	2483.50	53.3 AV	54.0	-0.7	1.36 V	243	19.2	34.1
5	4944.00	50.4 PK	74.0	-23.6	1.78 V	344	39.7	10.7
6	4944.00	37.2 AV	54.0	-16.8	1.78 V	344	26.5	10.7

Remarks:

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

RF Mode	VHT40	Channel	CH 3 : 2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	66.8 PK	74.0	-7.2	1.10 H	211	32.6	34.2
2	2390.00	51.1 AV	54.0	-2.9	1.10 H	211	16.9	34.2
3	*2422.00	102.6 PK			1.10 H	211	68.5	34.1
4	*2422.00	92.6 AV			1.10 H	211	58.5	34.1
5	4844.00	50.1 PK	74.0	-23.9	1.92 H	175	39.4	10.7
6	4844.00	37.2 AV	54.0	-16.8	1.92 H	175	26.5	10.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	67.1 PK	74.0	-6.9	1.36 V	250	32.9	34.2
2	2390.00	53.6 AV	54.0	-0.4	1.36 V	250	19.4	34.2
3	*2422.00	103.7 PK			1.36 V	250	69.6	34.1
4	*2422.00	93.6 AV			1.36 V	250	59.5	34.1
5	4844.00	50.5 PK	74.0	-23.5	1.77 V	345	39.8	10.7
6	4844.00	37.4 AV	54.0	-16.6	1.77 V	345	26.7	10.7

Remarks:

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

RF Mode	VHT40	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	*2437.00	105.6 PK			1.10 H	212	71.5	34.1
2	*2437.00	94.2 AV			1.10 H	212	60.1	34.1
3	2483.50	68.9 PK	74.0	-5.1	1.10 H	212	34.8	34.1
4	2483.50	52.8 AV	54.0	-1.2	1.10 H	212	18.7	34.1
5	4874.00	50.0 PK	74.0	-24.0	1.95 H	176	39.4	10.6
6	4874.00	37.0 AV	54.0	-17.0	1.95 H	176	26.4	10.6
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	*2437.00	105.7 PK			1.41 V	246	71.6	34.1
2	*2437.00	95.0 AV			1.41 V	246	60.9	34.1
3	2483.50	70.5 PK	74.0	-3.5	1.41 V	246	36.4	34.1
4	2483.50	53.5 AV	54.0	-0.5	1.41 V	246	19.4	34.1
5	4874.00	50.4 PK	74.0	-23.6	1.78 V	344	39.8	10.6
6	4874.00	37.5 AV	54.0	-16.5	1.78 V	344	26.9	10.6

Remarks:

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

RF Mode	VHT40	Channel	CH 9 : 2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	102.4 PK			1.08 H	209	68.3	34.1
2	*2452.00	91.9 AV			1.08 H	209	57.8	34.1
3	2483.50	69.2 PK	74.0	-4.8	1.08 H	209	35.1	34.1
4	2483.50	52.9 AV	54.0	-1.1	1.08 H	209	18.8	34.1
5	4904.00	49.9 PK	74.0	-24.1	1.94 H	178	39.3	10.6
6	4904.00	37.0 AV	54.0	-17.0	1.94 H	178	26.4	10.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	103.1 PK			1.40 V	245	69.0	34.1
2	*2452.00	92.9 AV			1.40 V	245	58.8	34.1
3	2483.50	69.7 PK	74.0	-4.3	1.40 V	245	35.6	34.1
4	2483.50	53.3 AV	54.0	-0.7	1.40 V	245	19.2	34.1
5	4904.00	50.1 PK	74.0	-23.9	1.77 V	347	39.5	10.6
6	4904.00	37.1 AV	54.0	-16.9	1.77 V	347	26.5	10.6

Remarks:

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

RF Mode	VHT40	Channel	CH 10 : 2457 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	*2457.00	102.2 PK			1.08 H	211	68.1	34.1
2	*2457.00	91.6 AV			1.08 H	211	57.5	34.1
3	2483.50	70.5 PK	74.0	-3.5	1.08 H	211	36.4	34.1
4	2483.50	53.3 AV	54.0	-0.7	1.08 H	211	19.2	34.1
5	4914.00	50.2 PK	74.0	-23.8	1.92 H	179	39.6	10.6
6	4914.00	37.0 AV	54.0	-17.0	1.92 H	179	26.4	10.6
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	*2457.00	103.2 PK			1.41 V	247	69.1	34.1
2	*2457.00	92.4 AV			1.41 V	247	58.3	34.1
3	2483.50	70.7 PK	74.0	-3.3	1.41 V	247	36.6	34.1
4	2483.50	53.6 AV	54.0	-0.4	1.41 V	247	19.5	34.1
5	4914.00	50.4 PK	74.0	-23.6	1.78 V	344	39.8	10.6
6	4914.00	37.2 AV	54.0	-16.8	1.78 V	344	26.6	10.6

Remarks:

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

RF Mode	VHT40	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

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	101.9 PK			1.09 H	211	67.8	34.1
2	*2462.00	91.1 AV			1.09 H	211	57.0	34.1
3	2483.50	68.2 PK	74.0	-5.8	1.09 H	211	34.1	34.1
4	2483.50	53.0 AV	54.0	-1.0	1.09 H	211	18.9	34.1
5	4924.00	50.4 PK	74.0	-23.6	1.94 H	178	39.7	10.7
6	4924.00	37.1 AV	54.0	-16.9	1.94 H	178	26.4	10.7
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	102.2 PK			1.39 V	244	68.1	34.1
2	*2462.00	91.9 AV			1.39 V	244	57.8	34.1
3	2483.50	71.9 PK	74.0	-2.1	1.39 V	244	37.8	34.1
4	2483.50	53.3 AV	54.0	-0.7	1.39 V	244	19.2	34.1
5	4924.00	50.5 PK	74.0	-23.5	1.79 V	346	39.8	10.7
6	4924.00	37.4 AV	54.0	-16.6	1.79 V	346	26.7	10.7

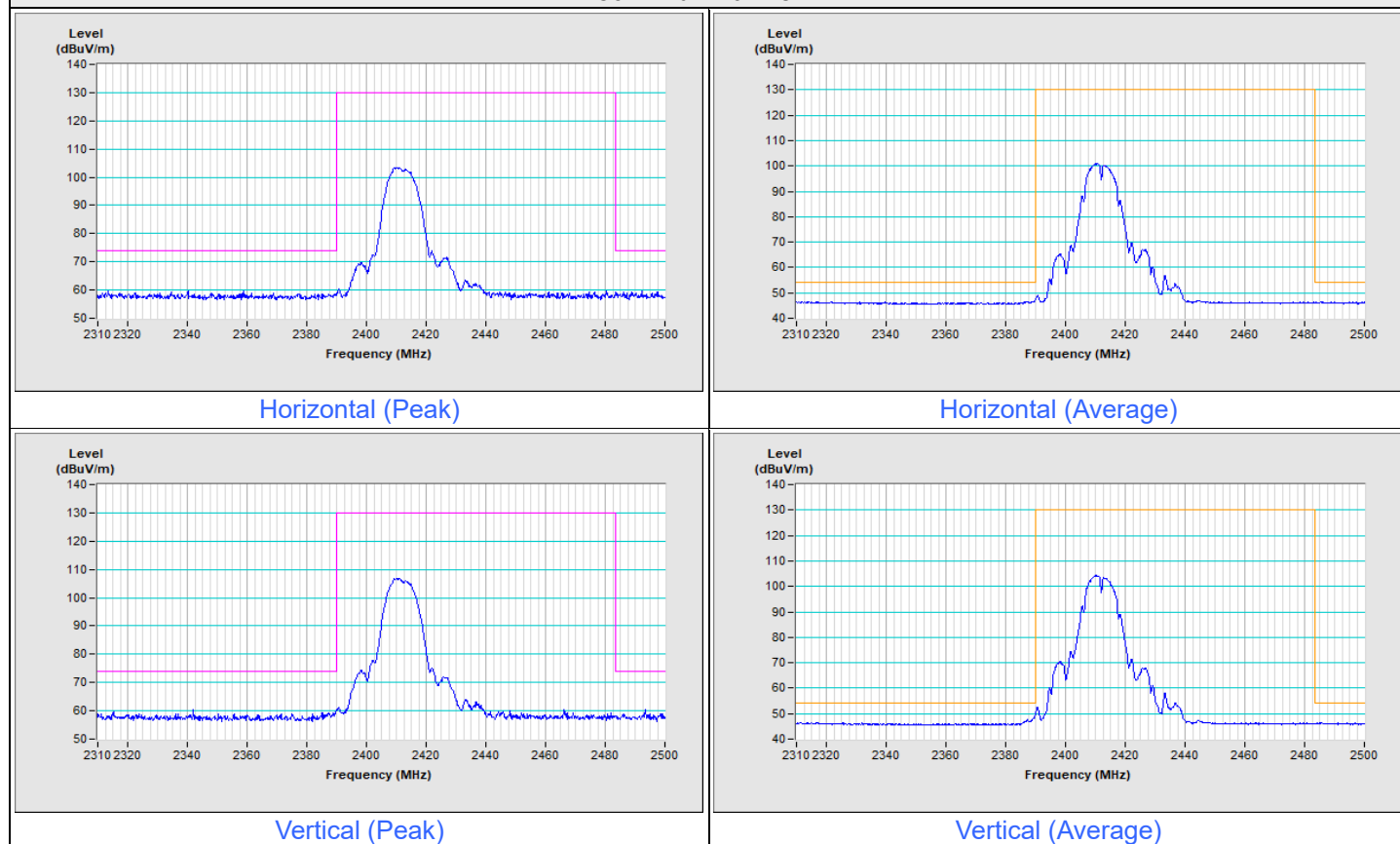
Remarks:

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

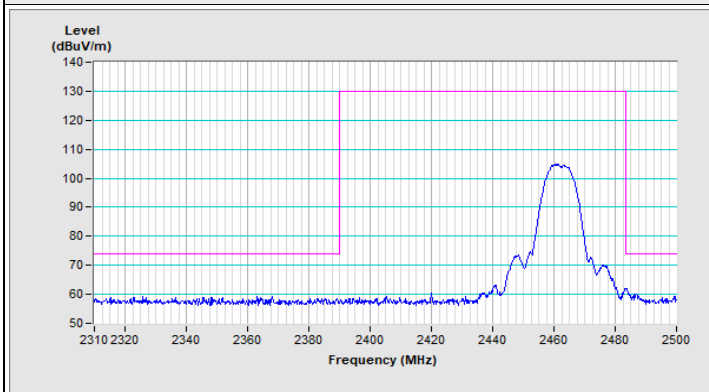
Plot of Band Edge

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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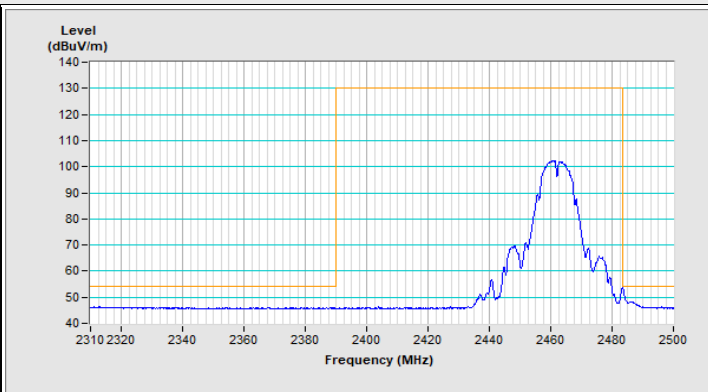
802.11b Channel 1



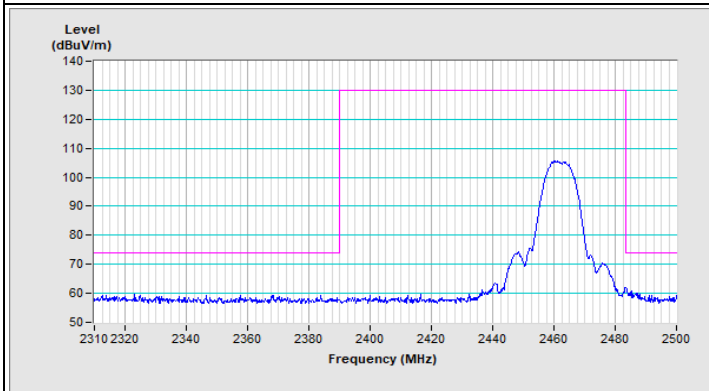
802.11b Channel 11



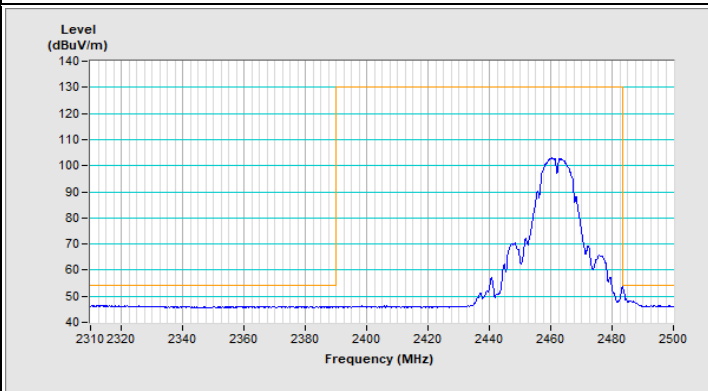
Horizontal (Peak)



Horizontal (Average)

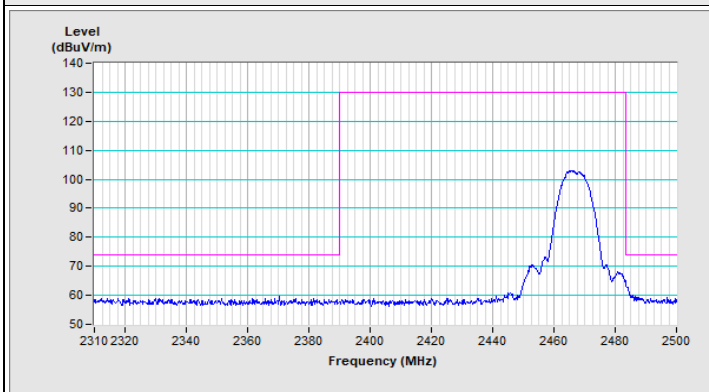


Vertical (Peak)

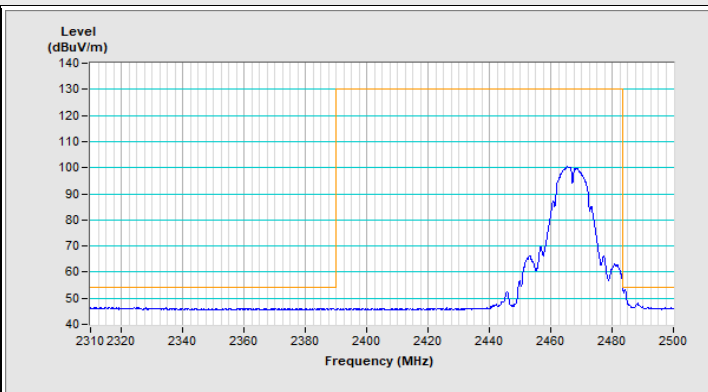


Vertical (Average)

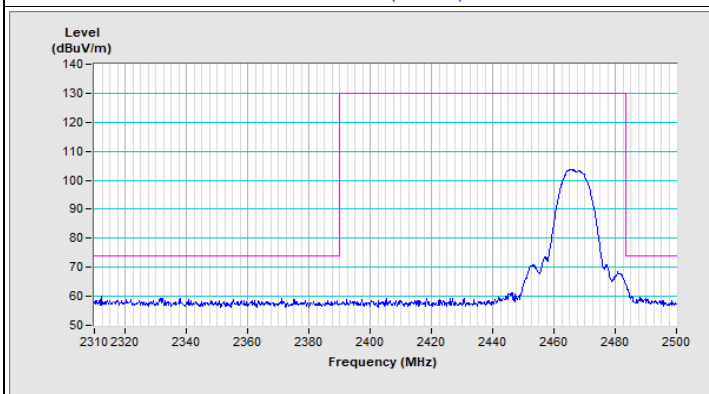
802.11b Channel 12



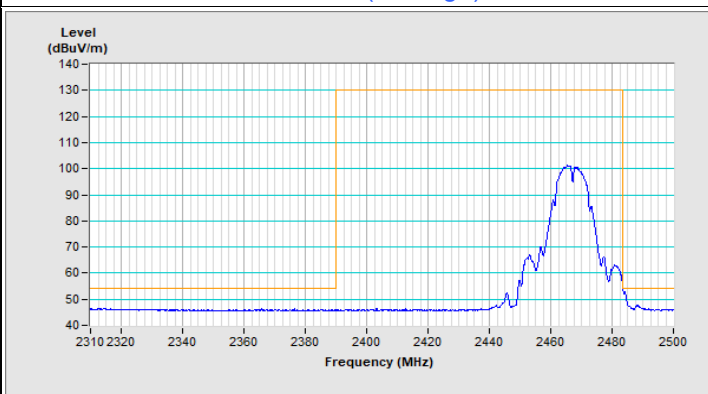
Horizontal (Peak)



Horizontal (Average)

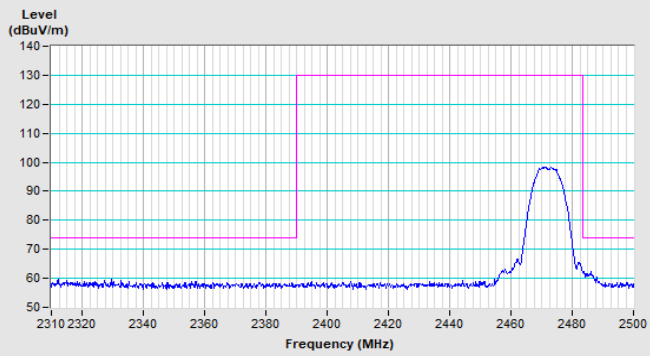


Vertical (Peak)

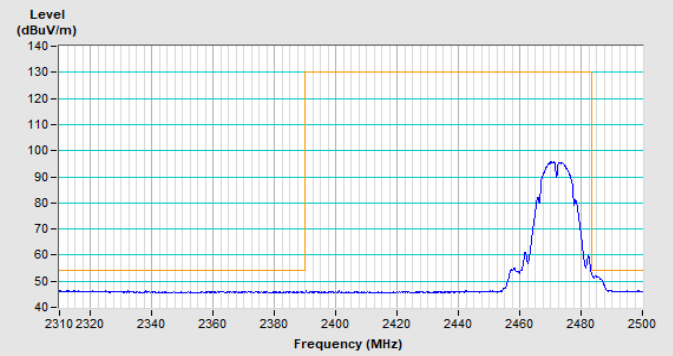


Vertical (Average)

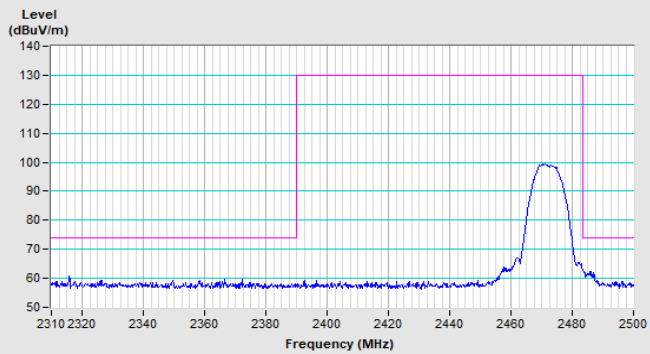
802.11b Channel 13



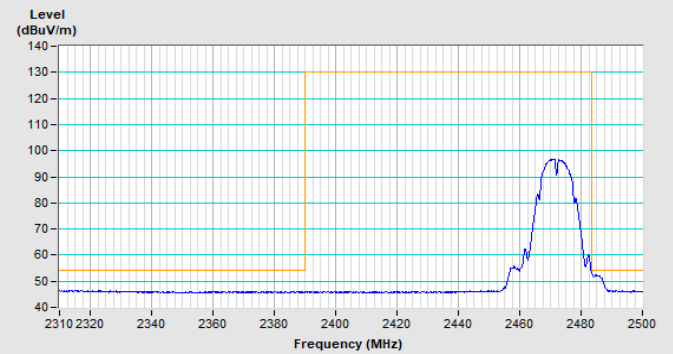
Horizontal (Peak)



Horizontal (Average)



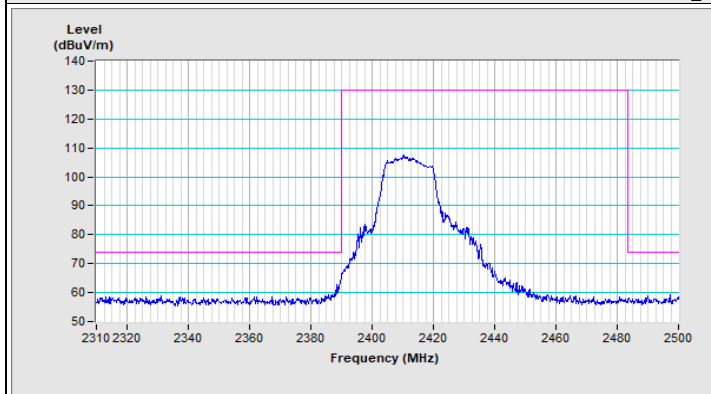
Vertical (Peak)



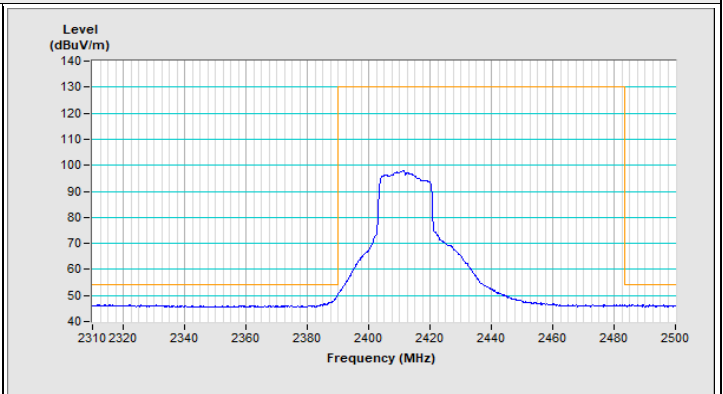
Vertical (Average)

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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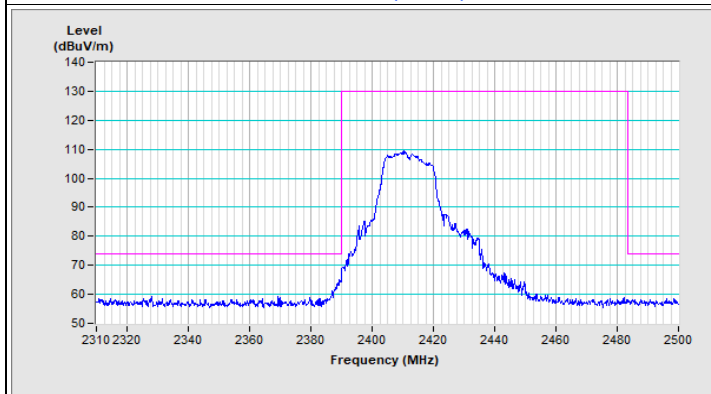
802.11g Channel 1



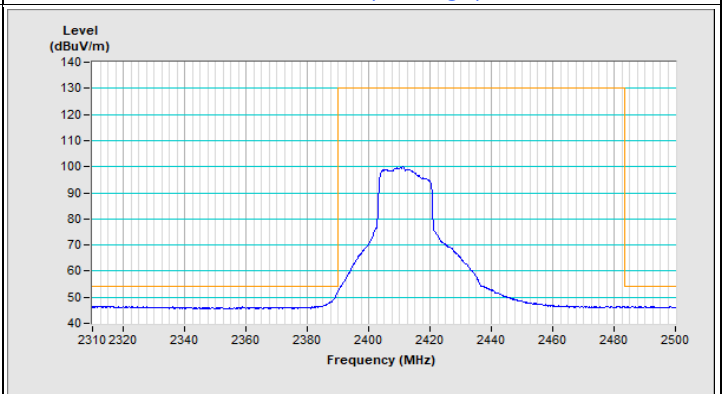
Horizontal (Peak)



Horizontal (Average)

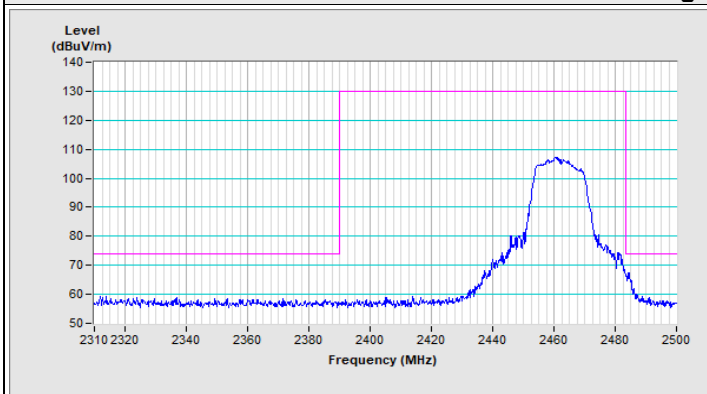


Vertical (Peak)

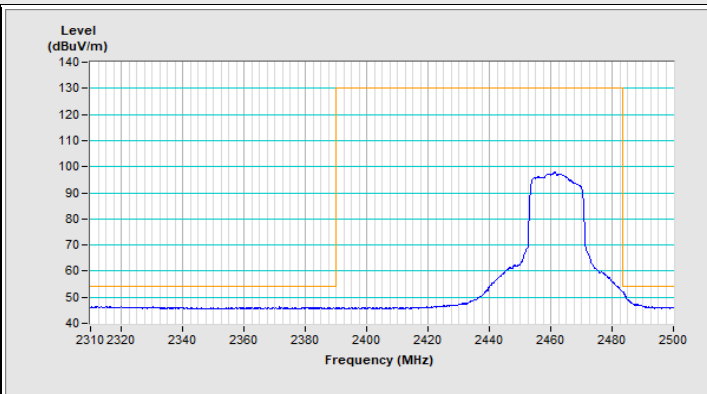


Vertical (Average)

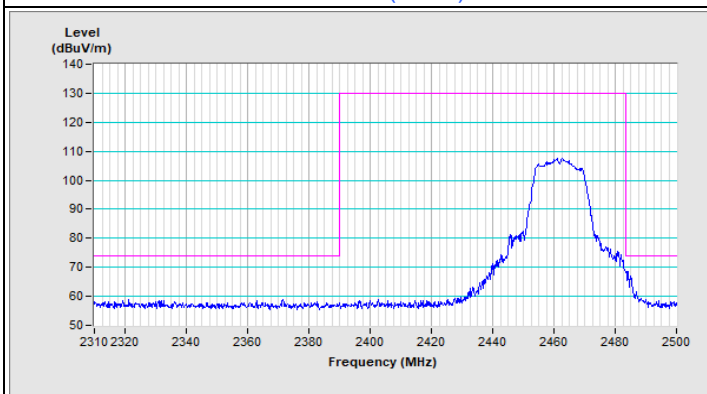
802.11g Channel 11



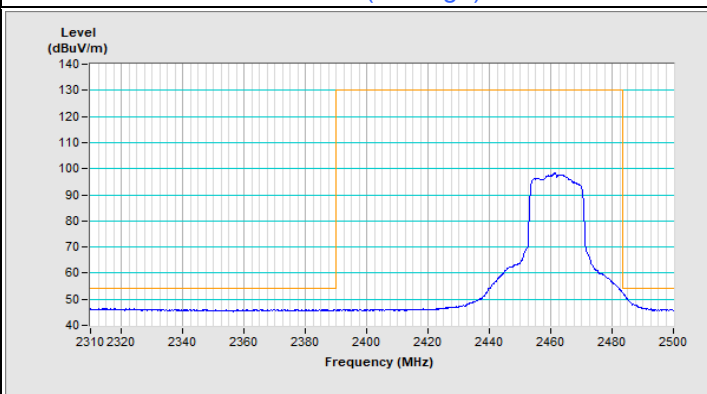
Horizontal (Peak)



Horizontal (Average)

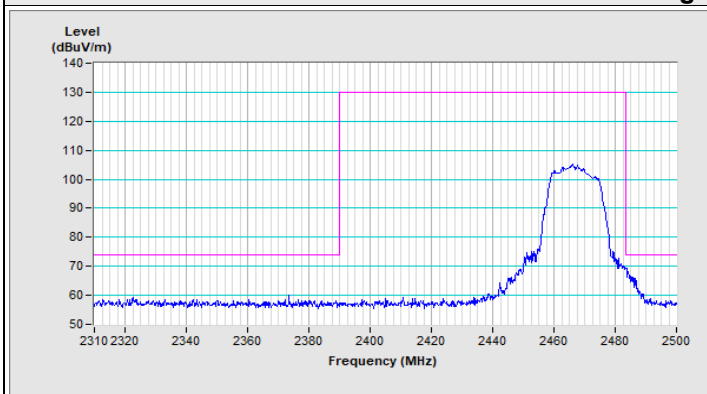


Vertical (Peak)

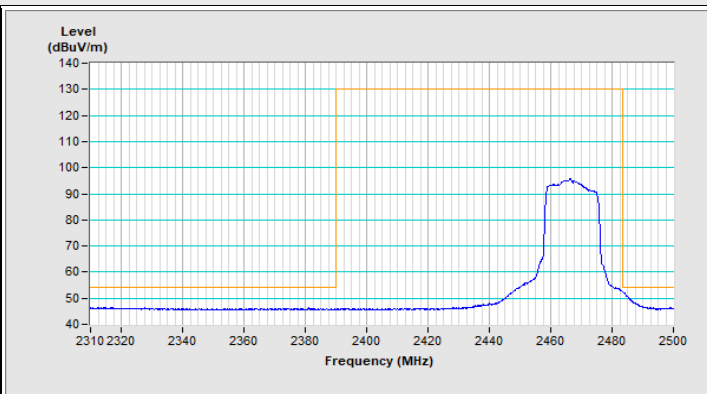


Vertical (Average)

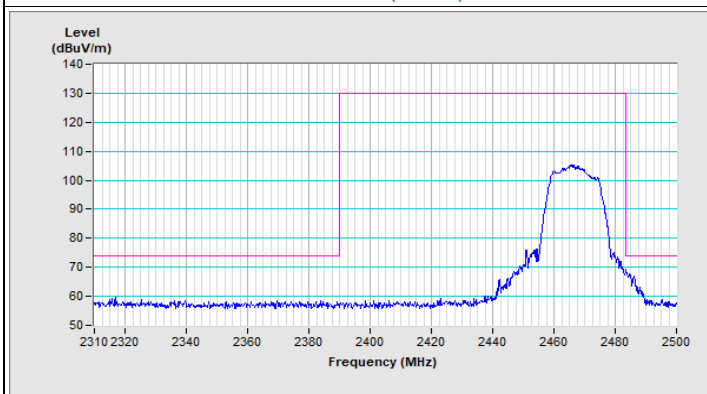
802.11g Channel 12



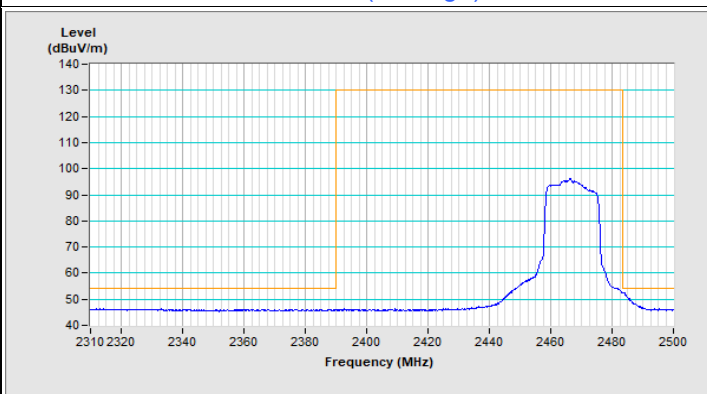
Horizontal (Peak)



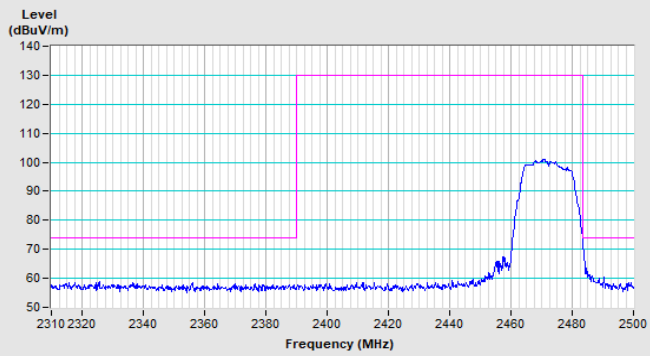
Horizontal (Average)



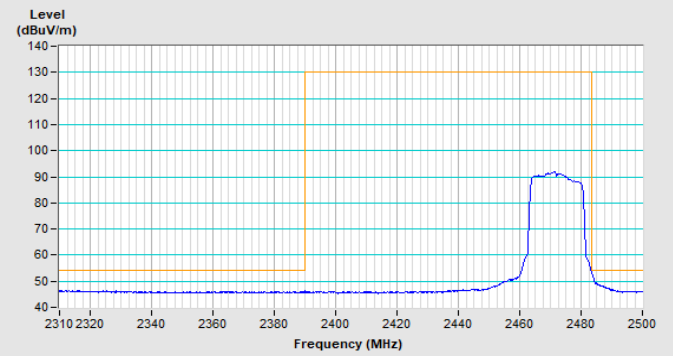
Vertical (Peak)



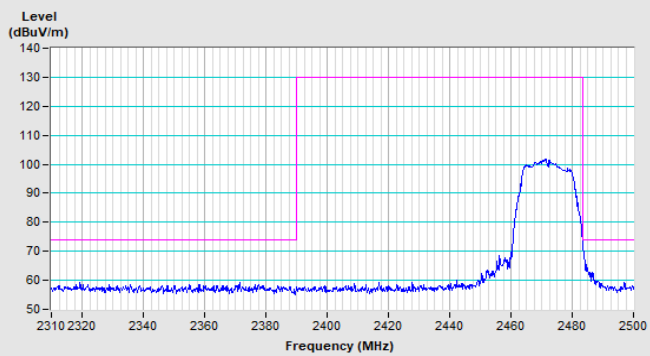
Vertical (Average)

802.11g Channel 13

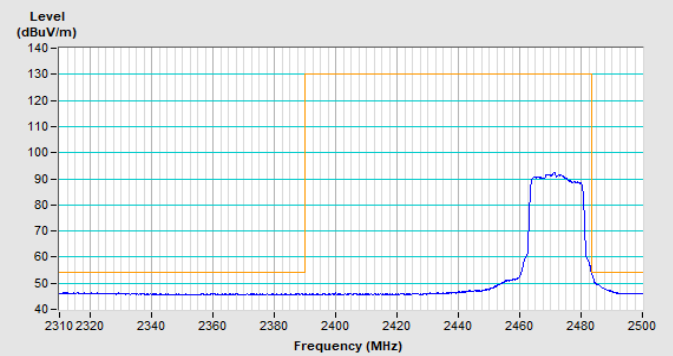
Horizontal (Peak)



Horizontal (Average)



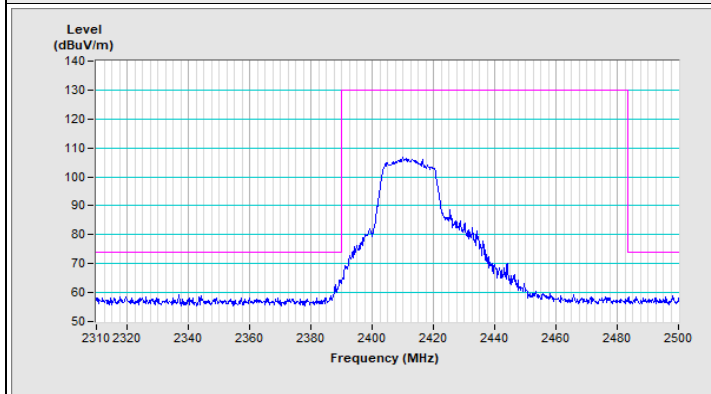
Vertical (Peak)



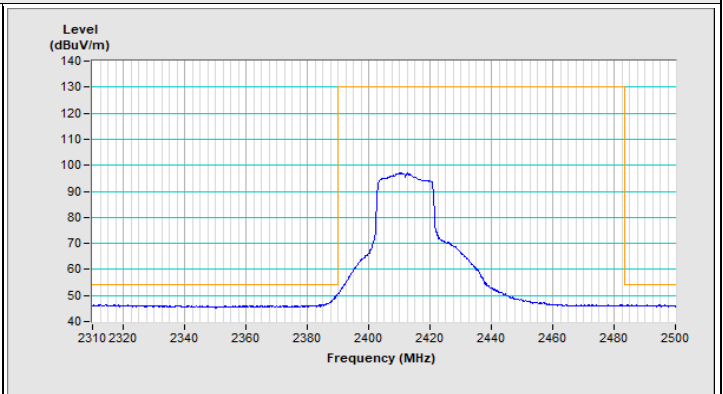
Vertical (Average)

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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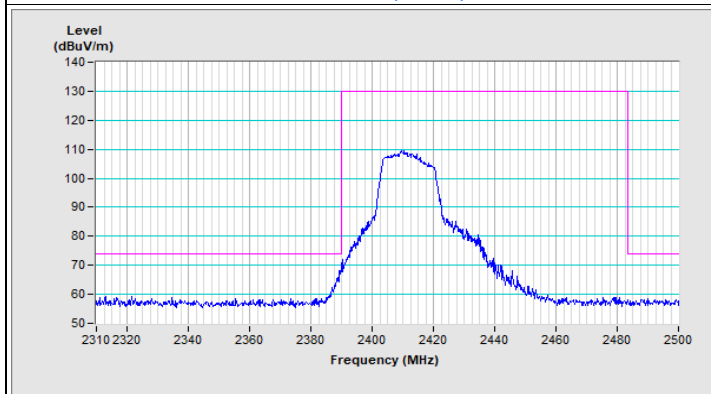
VHT20 Channel 1



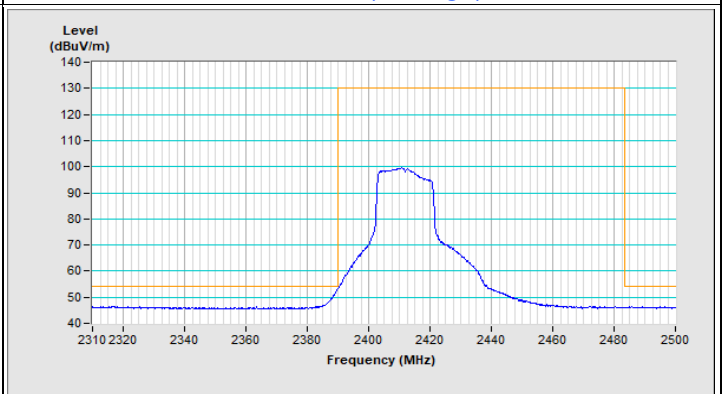
Horizontal (Peak)



Horizontal (Average)

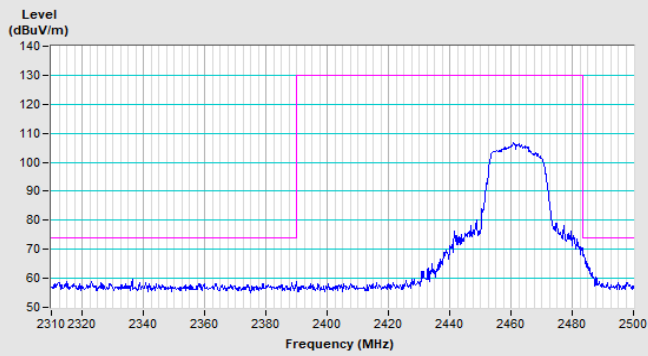


Vertical (Peak)

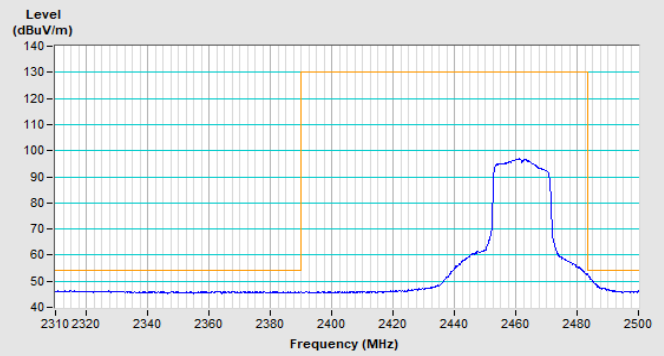


Vertical (Average)

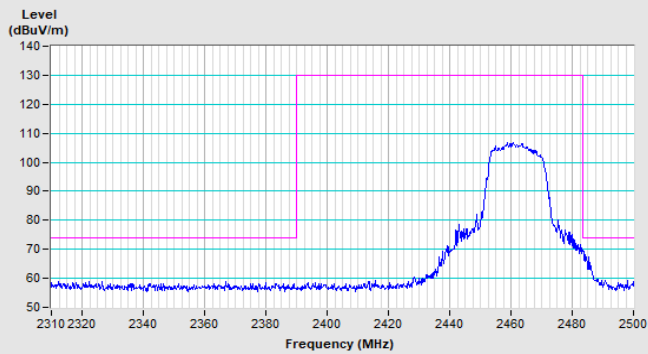
VHT20 Channel 11



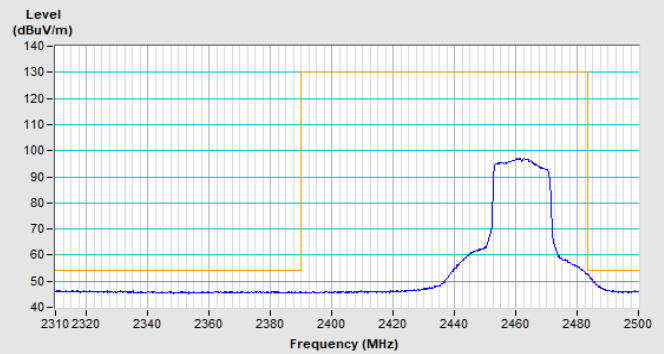
Horizontal (Peak)



Horizontal (Average)

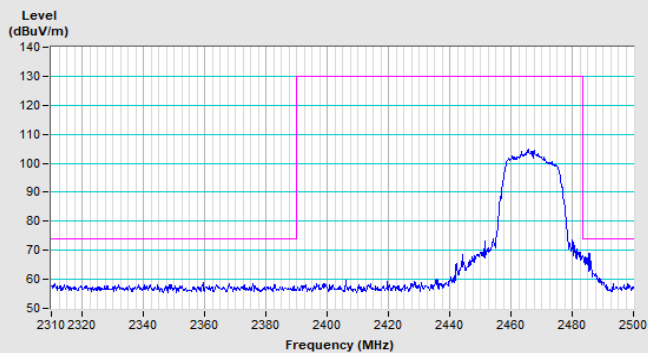


Vertical (Peak)

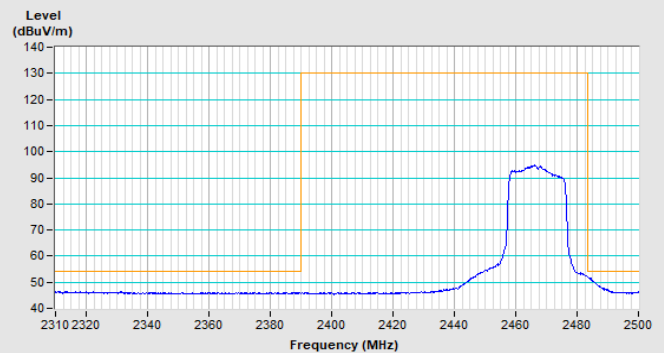


Vertical (Average)

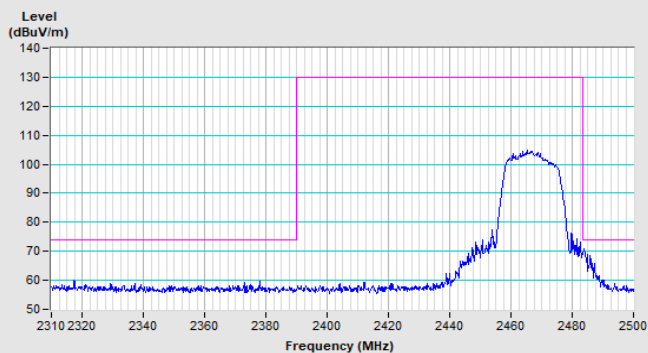
VHT20 Channel 12



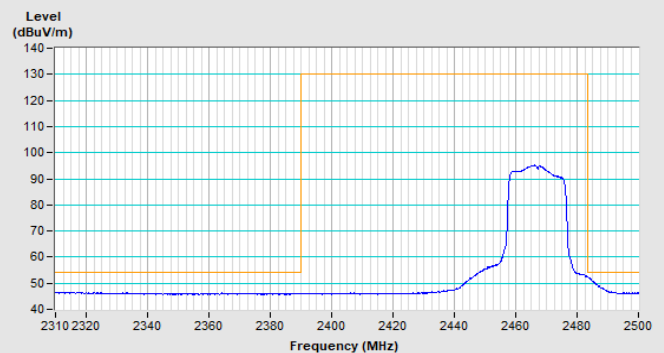
Horizontal (Peak)



Horizontal (Average)

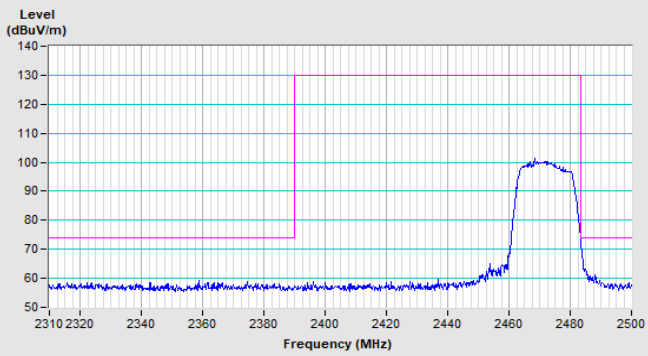


Vertical (Peak)

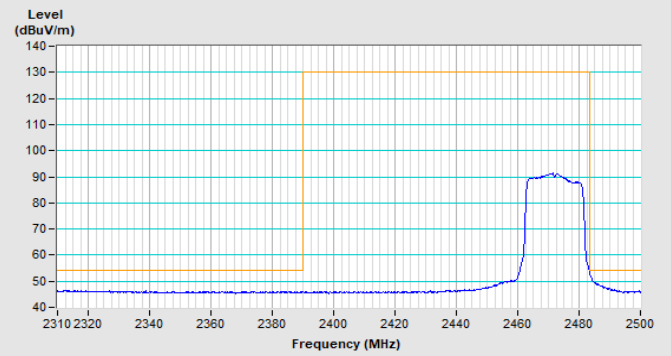


Vertical (Average)

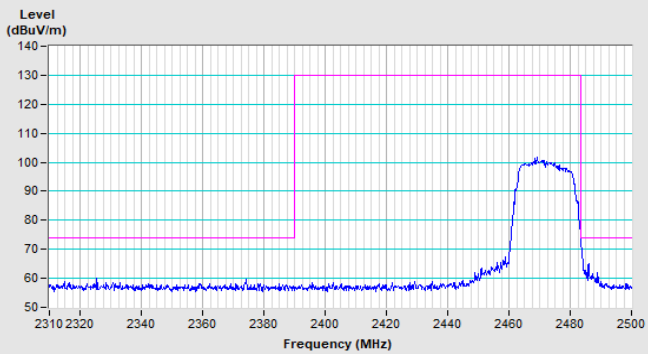
VHT20 Channel 13



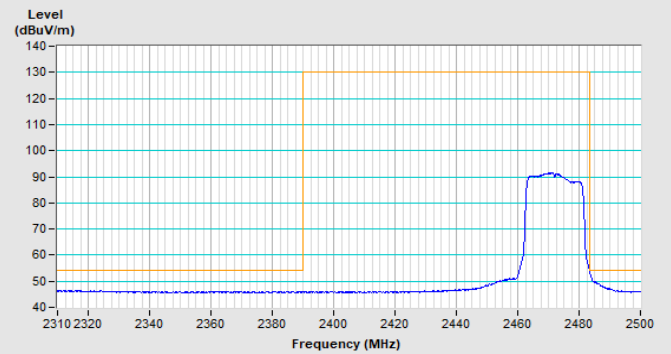
Horizontal (Peak)



Horizontal (Average)



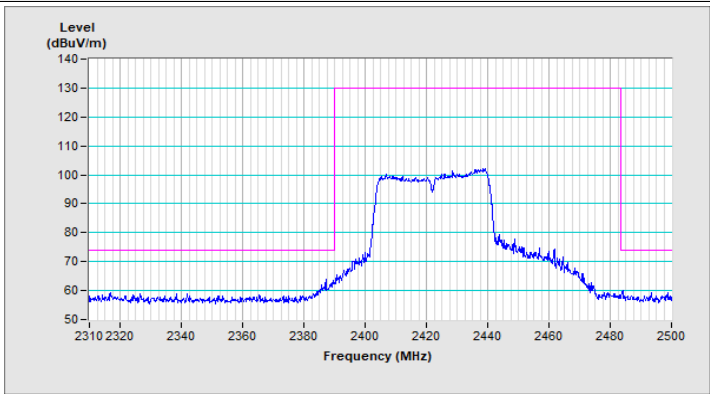
Vertical (Peak)



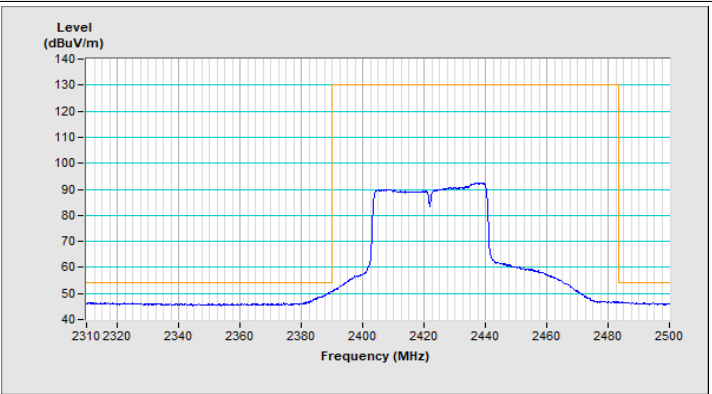
Vertical (Average)

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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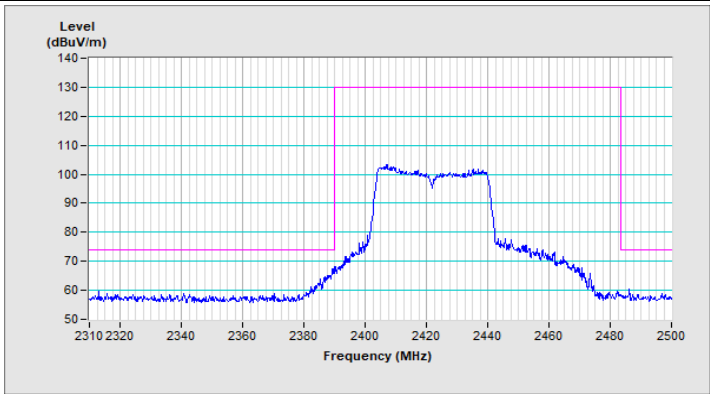
VHT40 Channel 3



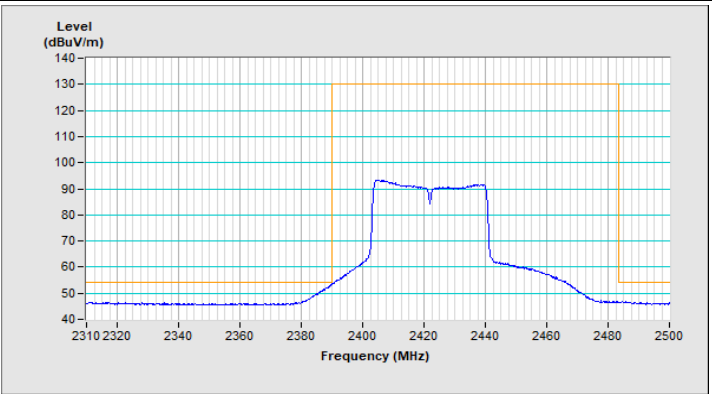
Horizontal (Peak)



Horizontal (Average)

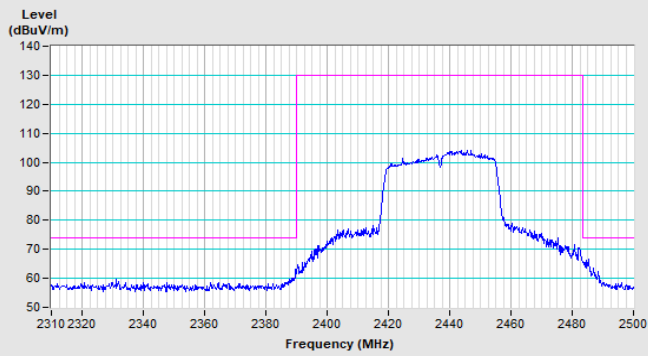


Vertical (Peak)

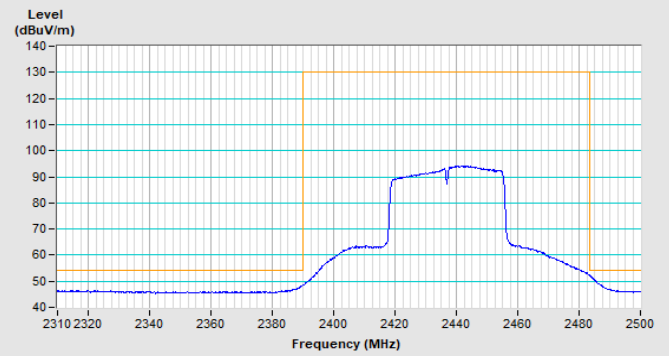


Vertical (Average)

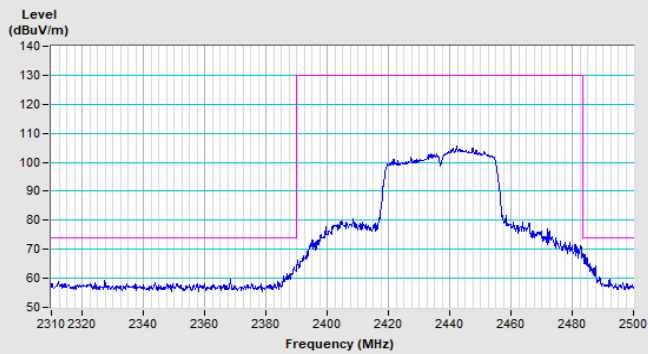
VHT40 Channel 6



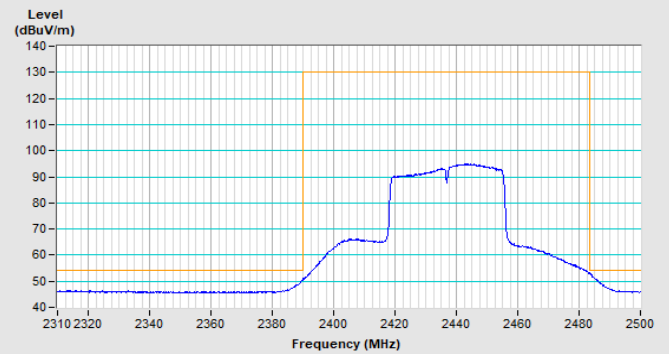
Horizontal (Peak)



Horizontal (Average)

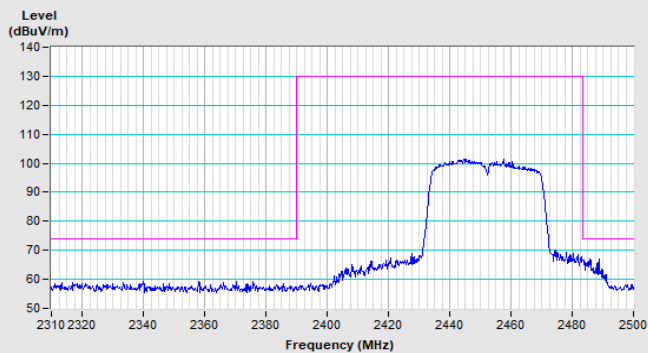


Vertical (Peak)

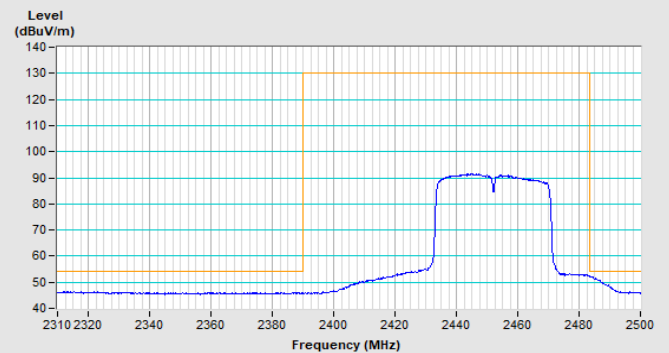


Vertical (Average)

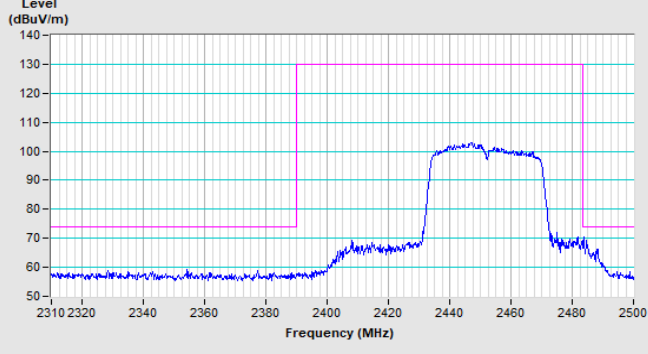
VHT40 Channel 9



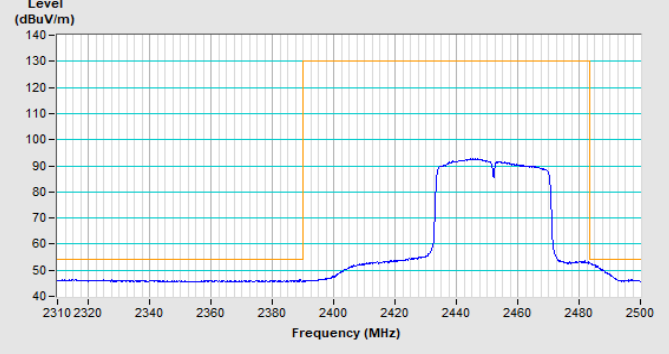
Horizontal (Peak)



Horizontal (Average)

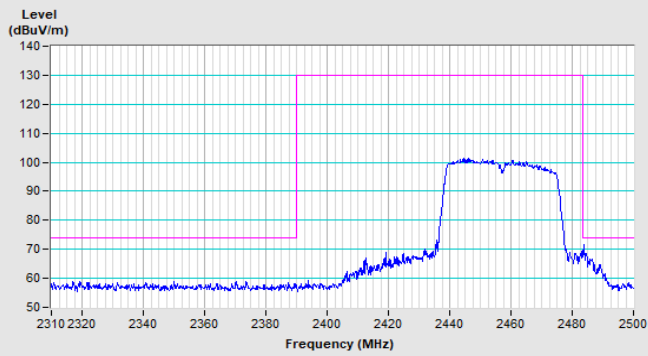


Vertical (Peak)

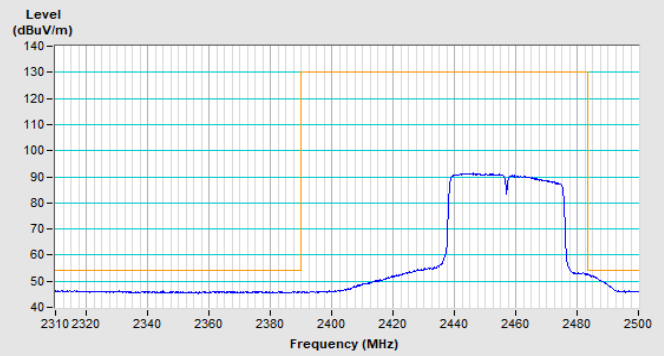


Vertical (Average)

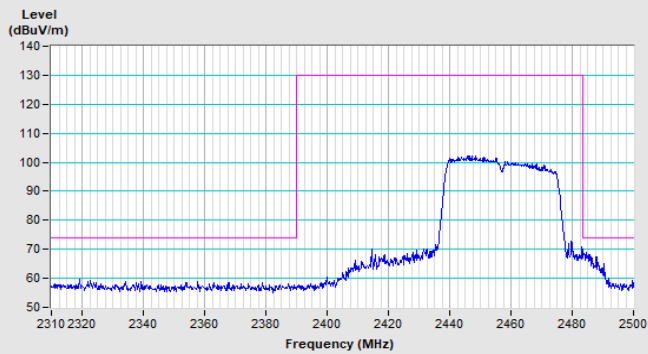
VHT40 Channel 10



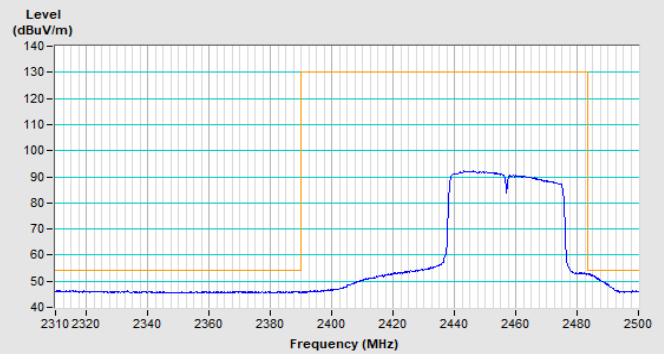
Horizontal (Peak)



Horizontal (Average)

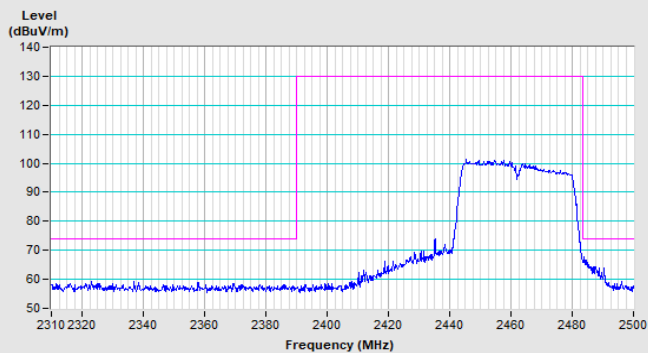


Vertical (Peak)

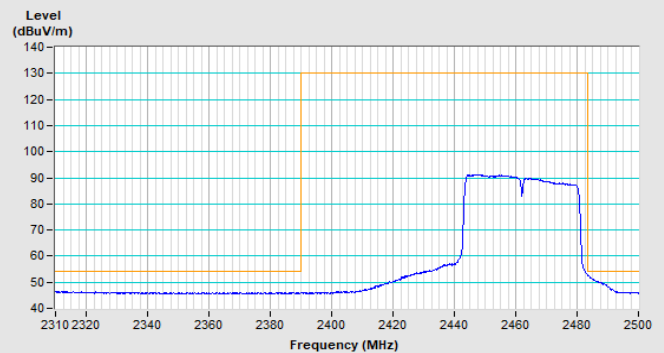


Vertical (Average)

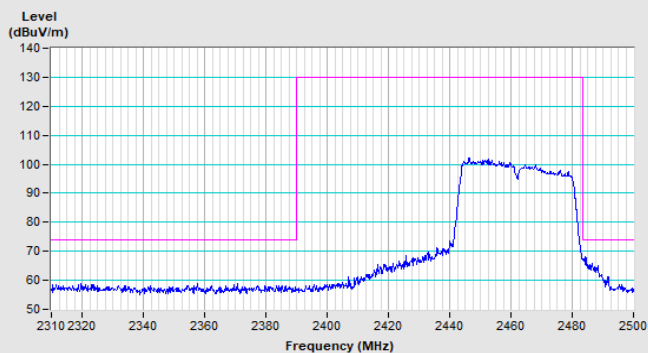
VHT40 Channel 11



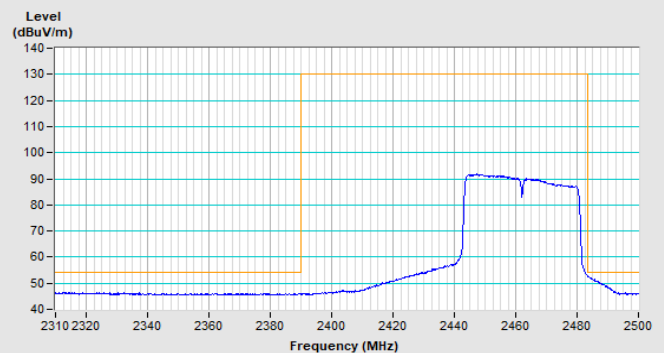
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

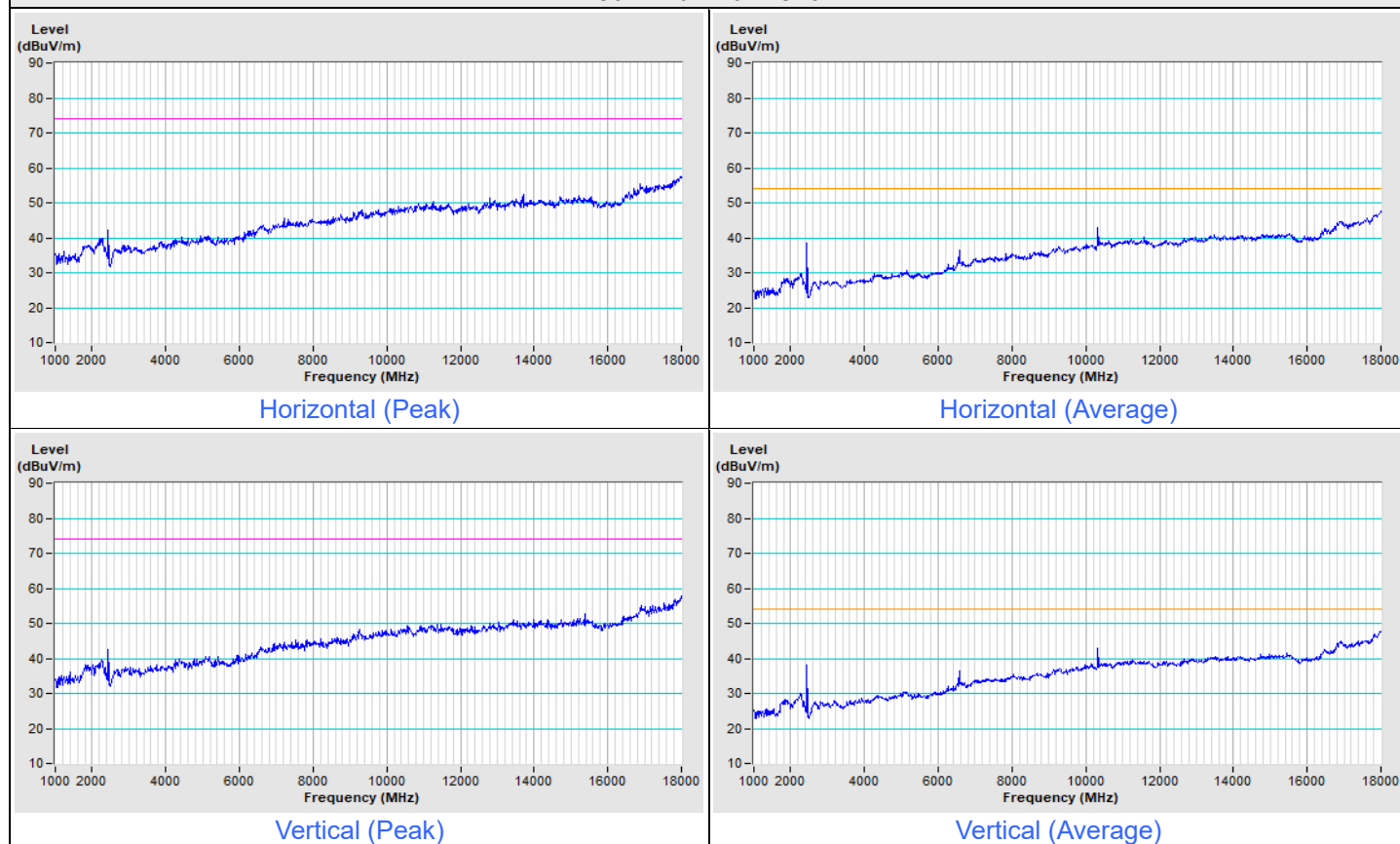


Vertical (Average)

Plot of Other Emission

Frequency Range	1 GHz ~ 18 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 6

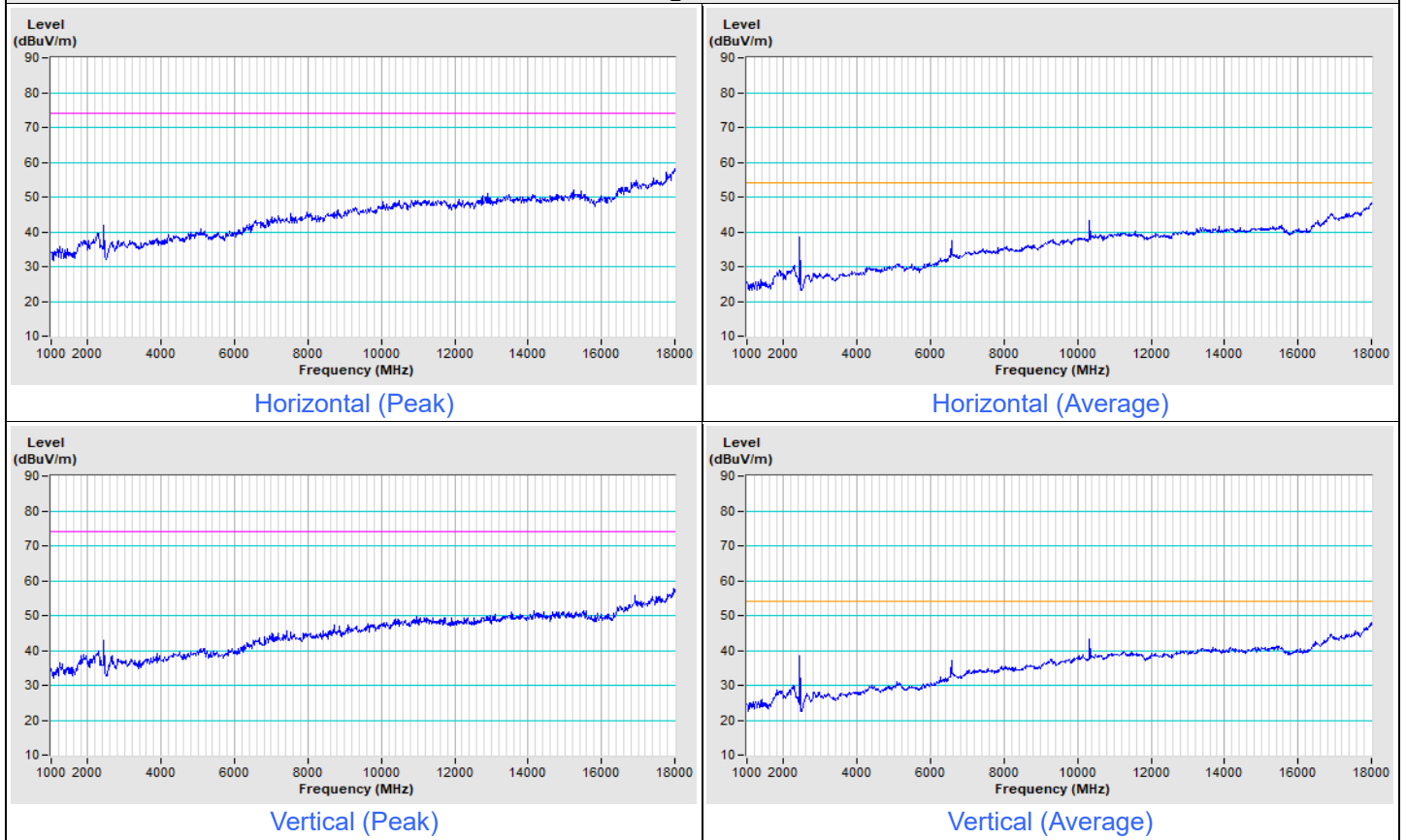


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 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 6

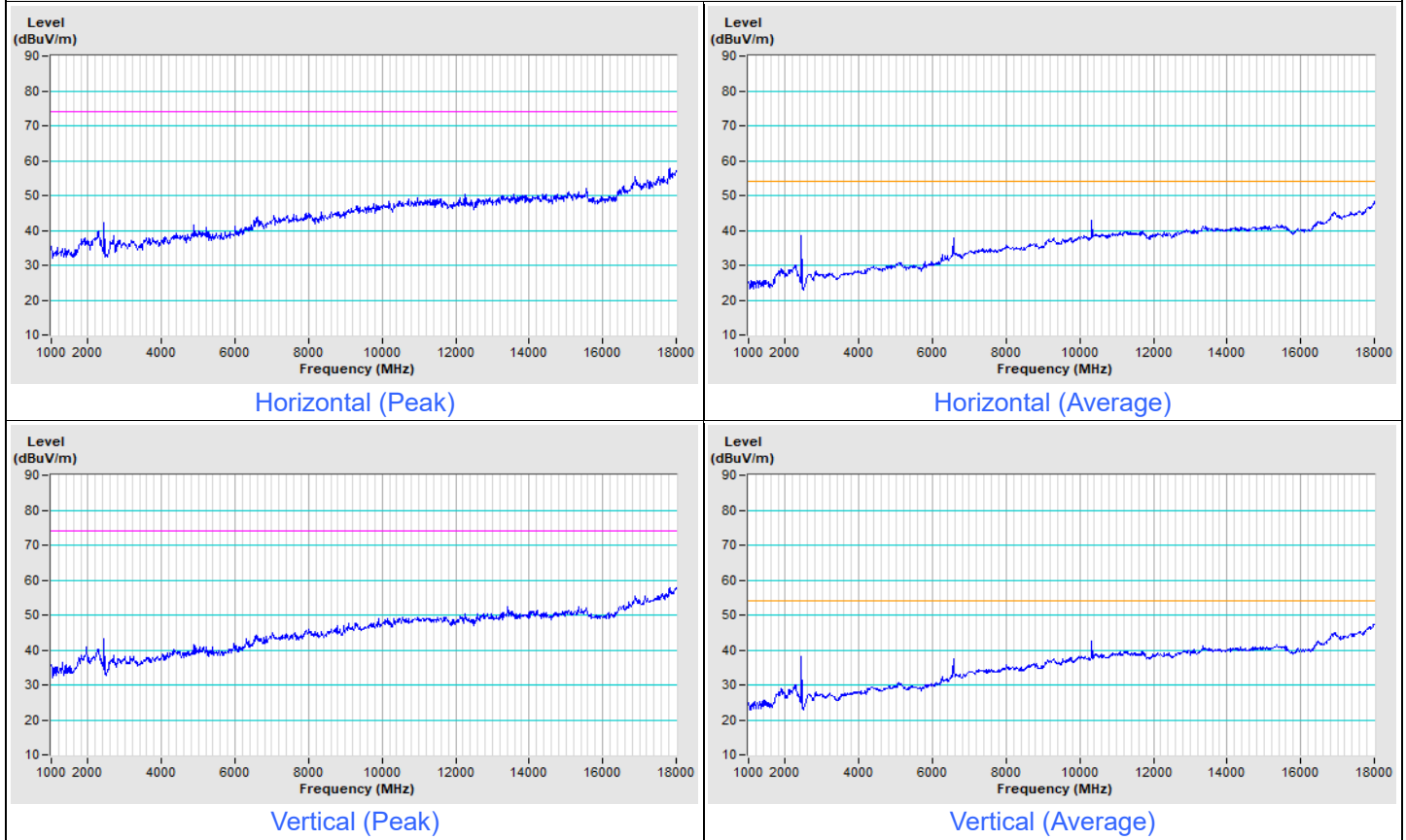


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 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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VHT20 Channel 6

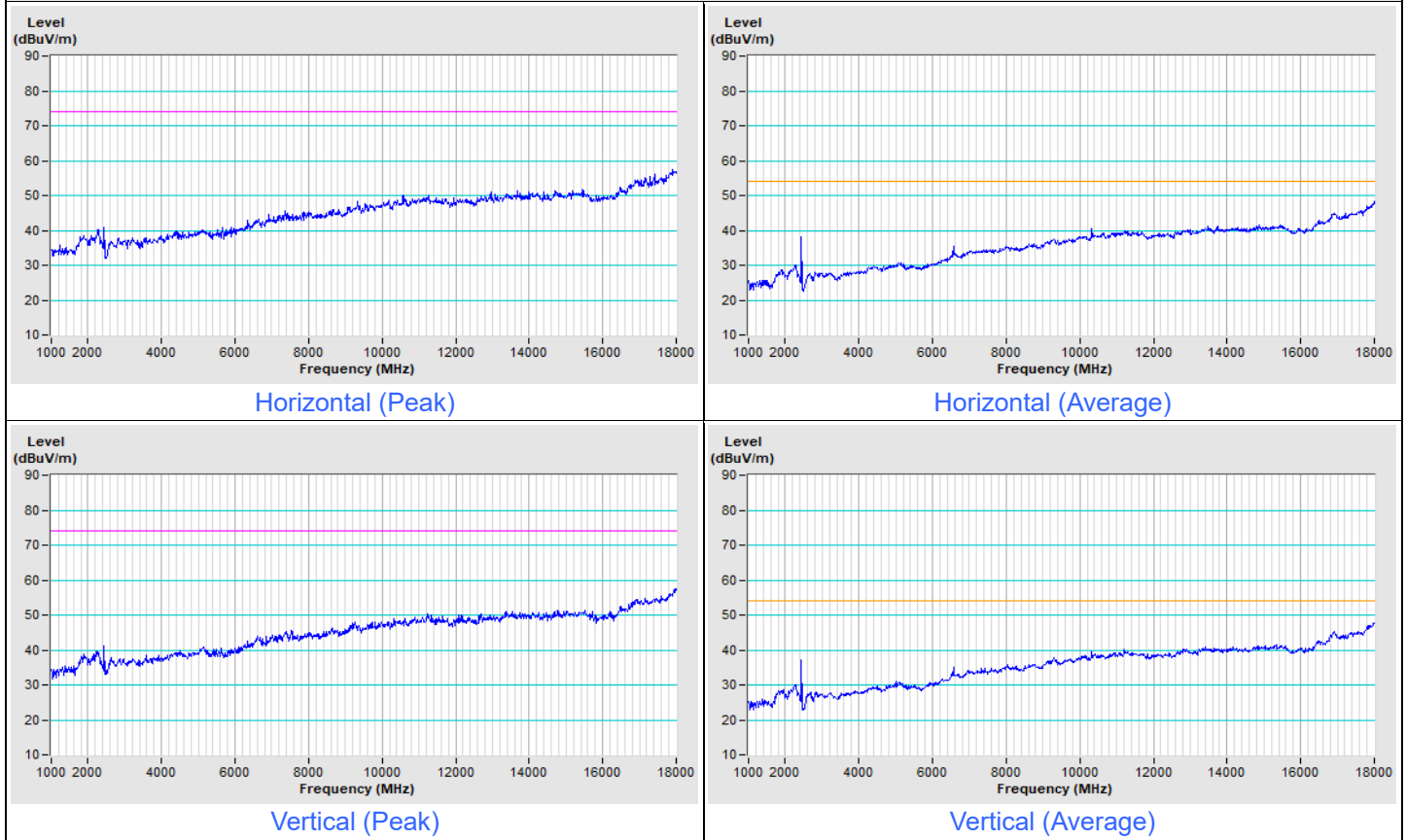


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 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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VHT40 Channel 6



- Notes:
1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
 2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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

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

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