

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBFPJ-WTW-P23110024-2

FCC ID: SWX-UEVSL

Product: EV Station Lite

Brand: 

Model No.: UC-EV-Station-Lite

Received Date: 2023/10/12

Test Date: 2023/11/29 ~ 2024/1/13

Issued Date: 2024/3/19

Applicant: Ubiquiti Inc.

Address: 685 Third Avenue, New York, New York 10017 USA

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number:

Approved by: Jeremy Lin, **Date:** 2024/3/19
Jeremy Lin / Project Engineer

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Prepared by : Lena Wang / Specialist

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Release Control Record

| Issue No. | Description | Date Issued |
|------------------------|------------------|-------------|
| RFBFPJ-WTW-P23110024-2 | Original Release | 2024/3/19 |

1 Certificate

Product: EV Station Lite

Brand:  UBQUITI or UCOM or UUBIQUITI or U

Test Model: UC-EV-Station-Lite

Sample Status: Engineering sample

Applicant: Ubiquiti Inc.

Test Date: 2023/11/29 ~ 2024/1/13

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

Measurement ANSI C63.10-2013

procedure: KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (Section 15.247) | | | |
|--|---------------------------------|--------|---|
| Standard / Clause | Test Item | Result | Remark |
| 15.247(b) | RF Output Power | Pass | Meet the requirement of limit. |
| 15.247(e) | Power Spectral Density | 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 -3.41 dB at 0.65400 MHz |
| 15.205 / 15.209 / 15.247(d) | Unwanted Emissions below 1 GHz | Pass | Minimum passing margin is -0.1 dB at 57.16 MHz |
| 15.205 / 15.209 / 15.247(d) | Unwanted Emissions above 1 GHz | Pass | Minimum passing margin is -1.0 dB at 2390.00 MHz |
| 15.203 | Antenna Requirement | Pass | No antenna connector is used. |

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

2.1 Measurement Uncertainty

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

| Measurement | 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 | 2.88 dB |
| Unwanted Emissions below 1 GHz | 9 kHz ~ 30 MHz | 2.44 dB |
| | 30 MHz ~ 1 GHz | 2.02 dB |
| Unwanted Emissions above 1 GHz | 1 GHz ~ 18 GHz | 1.01 dB |
| | 18 GHz ~ 40 GHz | 1.15 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 | EV Station Lite |
| Brand |  |
| Test Model | UC-EV-Station-Lite |
| Status of EUT | Engineering sample |
| Power Supply Rating | 200-240 Vac |
| 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: 11.0 / 5.5 / 2.0 / 1.0 Mbps 802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to 300.0 Mbps VHT: up to 400.0 Mbps 802.11ax: up to 573.5 Mbps |
| Operating Frequency | 2.412 GHz ~ 2.462 GHz |
| Number of Channel | 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20):11 802.11n (HT40), VHT40, 802.11ax (HE40):7 |
| Output Power | 266.999 mW (24.27 dBm) |

Note: 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.

| Chain | Gain (dBi) | Antenna Type | Connector Type |
|-------|-----------------|--------------|----------------|
| | 2400~2483.5 MHz | | |
| 0/1 | 3.6 | Dipole | ipex(MHF) |

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

2. The EUT incorporates a MIMO function:

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

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), VHT mode for 20 MHz (40 MHz), and 802.11ax mode for 20 MHz (40 MHz) therefore the manufacturer will control the power for 802.11n/VHT mode is same as the 802.11ax mode or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

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

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

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

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

3.4 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: X-axis |

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 / Power Spectral Density | 802.11b | 1, 6, 11 | DBPSK | 1Mb/s |
| | 802.11g | 1, 6, 11 | BPSK | 6Mb/s |
| | 802.11ax (HE20) | 1, 6, 11 | BPSK | MCS0 |
| | 802.11ax (HE40) | 3, 6, 9 | BPSK | MCS0 |
| 6 dB Bandwidth / Conducted Out of Band Emissions | 802.11b | 1, 6, 11 | DBPSK | 1Mb/s |
| | 802.11g | 1, 6, 11 | BPSK | 6Mb/s |
| | 802.11ax (HE20) | 1, 6, 11 | BPSK | MCS0 |
| | 802.11ax (HE40) | 3, 6, 9 | BPSK | MCS0 |
| AC Power Conducted Emissions | 802.11b | 6 | DBPSK | 1Mb/s |
| Unwanted Emissions below 1 GHz | 802.11b | 6 | DBPSK | 1Mb/s |
| Unwanted Emissions above 1 GHz | 802.11b | 1, 6, 11 | DBPSK | 1Mb/s |
| | 802.11g | 1, 6, 11 | BPSK | 6Mb/s |
| | 802.11ax (HE20) | 1, 6, 11 | BPSK | MCS0 |
| | 802.11ax (HE40) | 3, 6, 9 | BPSK | MCS0 |

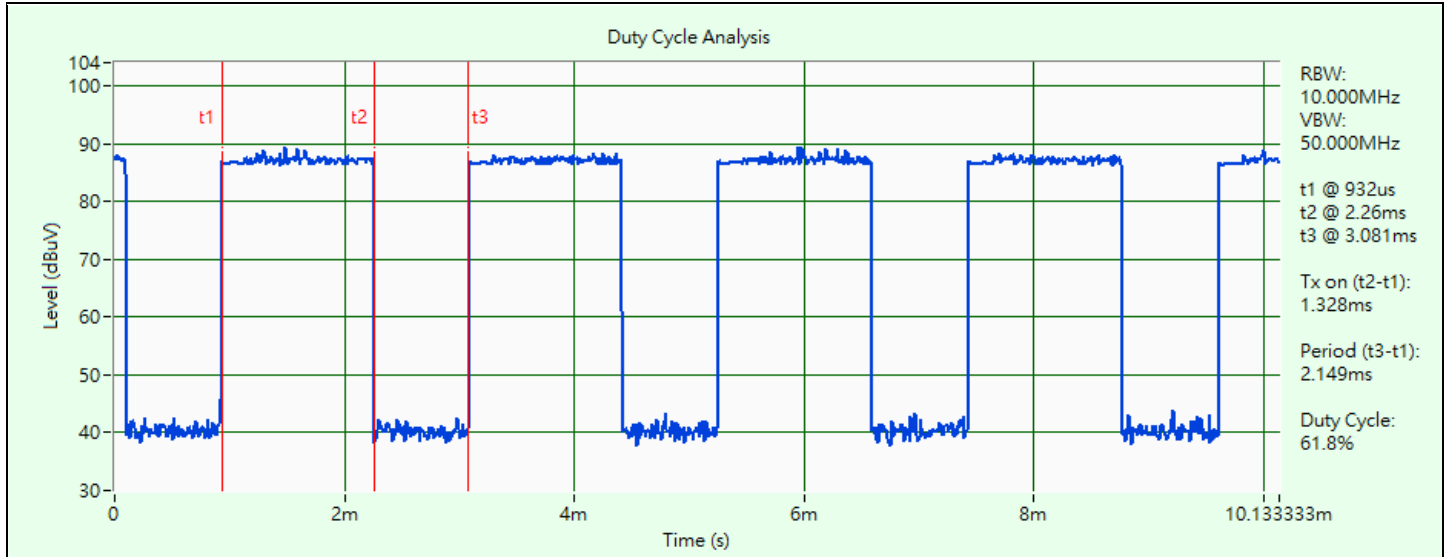
3.5 Duty Cycle of Test Signal

802.11b: Duty cycle = 1.328 ms / 2.149 ms x 100% = 61.8%, duty factor = 10 * log (1/Duty cycle) = 2.09 dB

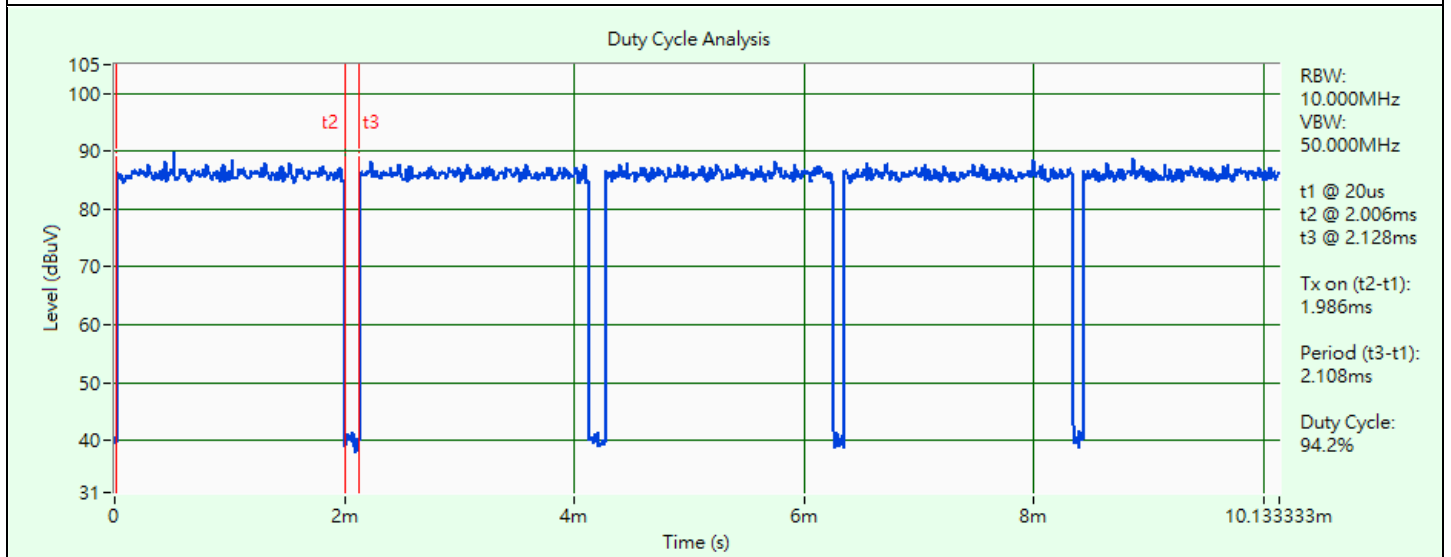
802.11g: Duty cycle = 1.986 ms / 2.108 ms x 100% = 94.2%, duty factor = 10 * log (1/Duty cycle) = 0.26 dB

802.11ax (HE20): Duty cycle = 5.46 ms / 5.895 ms x 100% = 92.6%, duty factor = 10 * log (1/Duty cycle) = 0.33 dB

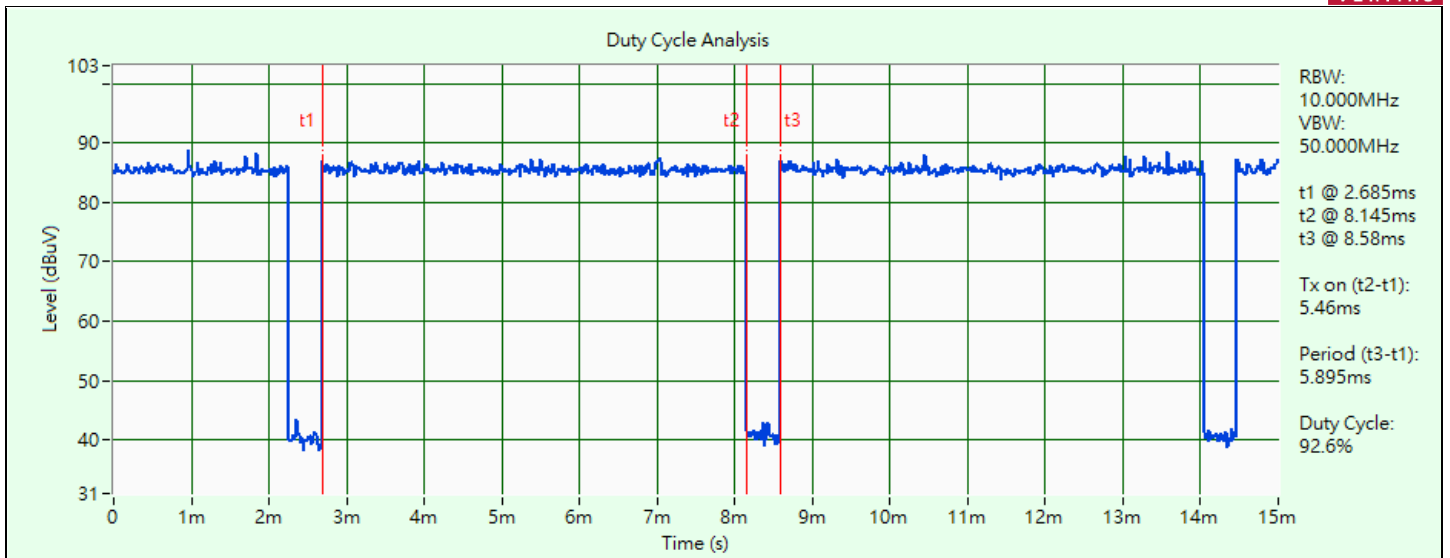
802.11ax (HE40): Duty cycle = 5.445 ms / 6.33 ms x 100% = 86%, duty factor = 10 * log (1/Duty cycle) = 0.65 dB



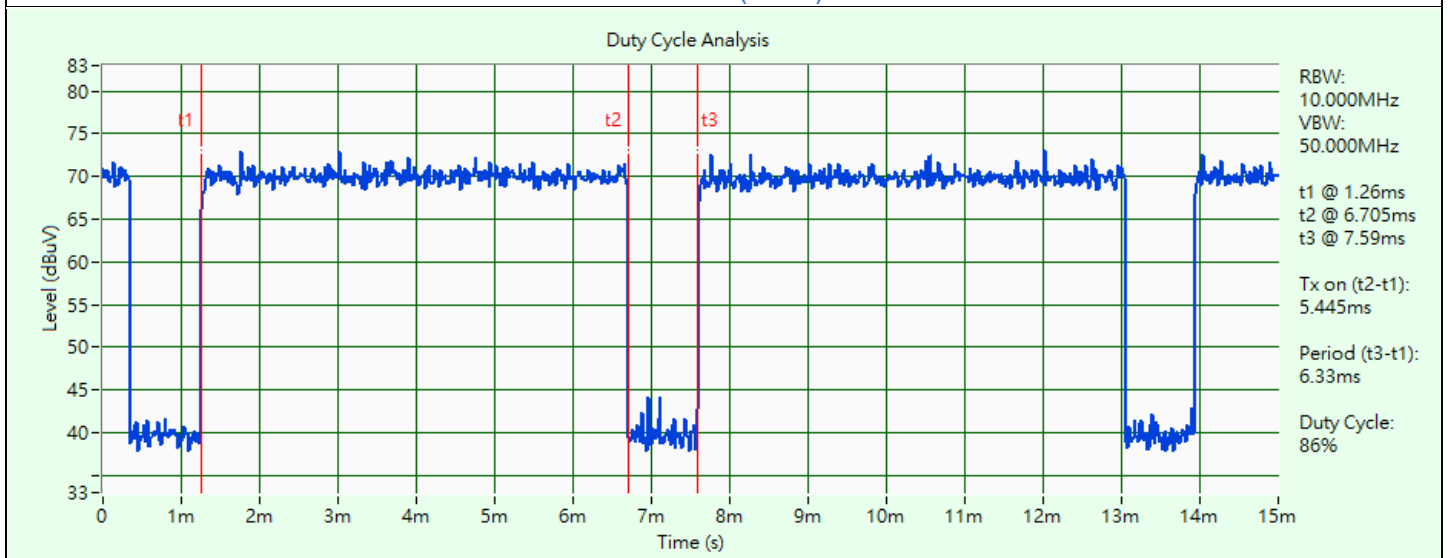
802.11b



802.11g



802.11ax (HE20)

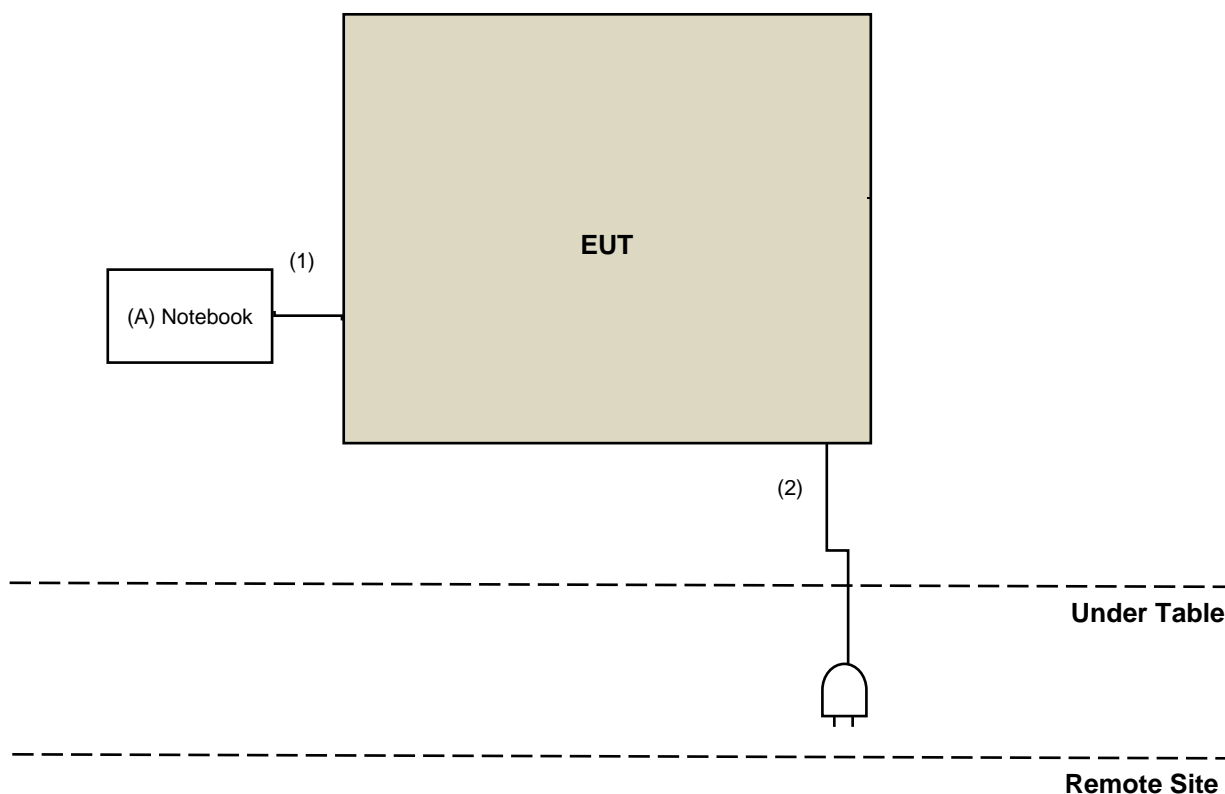


802.11ax (HE40)

3.6 Test Program Used and Operation Descriptions

Controlling software Putty 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 | Notebook | Lenovo | P00048A | N/A | N/A | Provided by Lab (for RF Setup) |

| ID | Cable Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|--------------------|------|------------|--------------------|--------------|--------------------------------------|
| 1 | RJ-45 Cable | 1 | 1.5 | NO | 0 | Supplied by applicant (for RF Setup) |
| 2 | AC Cable | 1 | 1.8 | 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 |
|-----------------------------------|-----------|------------|--------------------|---------------------|
| Peak Power Analyzer Keysight | 8990B | MY51000485 | 2023/1/19 | 2024/1/18 |
| Wideband Power Sensor Keysight | N1923A | MY58020002 | 2023/1/18 | 2024/1/17 |
| | | MY58140009 | 2023/1/18 | 2024/1/17 |

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/12/21

4.2 Power Spectral Density

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|-----------------------------------|----------------------------------|------------|--------------------|---------------------|
| Signal & Spectrum Analyzer R&S | FSV3044 | 101504 | 2023/6/5 | 2024/6/4 |
| 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: 2023/12/21

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 HUBER+SUHNER | E1-011276 | 01 | 2023/2/1 | 2024/1/31 |
| | E1-011312 | 10 | 2023/1/30 | 2024/1/29 |
| | E1-011591 | 17 | 2023/2/1 | 2024/1/31 |
| DC-LISN Schwarzbeck | NNBM 8126G | 8126G-069 | 2023/11/7 | 2024/11/6 |
| EMI Test Receiver R&S | ESR3 | 102783 | 2023/12/13 | 2024/12/12 |
| Fixed Attenuator SGH | BNC10W10dB | PAD-COND2-01 | 2023/9/2 | 2024/9/1 |
| LISN R&S | ESH2-Z5 | 100100 | 2023/3/7 | 2024/3/6 |
| | ESH3-Z5 | 100312 | 2023/9/12 | 2024/9/11 |
| RF Coaxial Cable Woken | 5D-FB | Cable-cond2-01 | 2023/9/2 | 2024/9/1 |
| Software BVADT | BVADT_Cond_ V7.3.7.4 | N/A | N/A | N/A |
| V-LISN Schwarzbeck | NNBL 8226-2 | 8226-142 | 2023/8/31 | 2024/8/30 |

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2024/1/10

4.6 Unwanted Emissions below 1 GHz

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|--------------------------------------|------------------------------|---|--------------------|---------------------|
| Antenna Tower Max-Full | UNAT_5+ | PAD-CH6-01 | N/A | N/A |
| Antenna Tower Controller Max-Full | MF-7802 | N/A | N/A | N/A |
| Bi_Log Antenna Schwarzbeck | VULB 9168 | 9168-616 | 2023/10/18 | 2024/10/17 |
| Loop Antenna Electro-Metrics | EM-6879 | 269 | 2023/9/23 | 2024/9/22 |
| Loop Antenna TESEQ | HLA 6121 | 45745 | 2023/8/8 | 2024/8/7 |
| MXE EMI Receiver Agilent | N9038A | MY52260177 | 2023/9/15 | 2024/9/14 |
| Preamplifier Agilent | 310N | 187226 | 2023/6/13 | 2024/6/12 |
| Preamplifier EMCI | EMC001340 | 980201 | 2023/9/27 | 2024/9/26 |
| PXA Signal Analyzer Keysight | N9030A | MY54490561 | 2023/7/25 | 2024/7/24 |
| RF Coaxial Cable ETS-Lindgren | EMC104-SM-SM-10000 | Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4) | 2023/6/13 | 2024/6/12 |
| | RFC-SMS-100-SMS-24-IN | Cable-CH1-02(RFC-SMS-100-SMS-24) | 2023/6/13 | 2024/6/12 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.5 | N/A | N/A | N/A |
| Turn Table Max-Full | TT-1510 | N/A | N/A | N/A |
| Turn Table Controller Max-Full | MF-7802 | N/A | N/A | N/A |

Notes:

1. The test was performed in XD - 966 chamber 6.
2. Tested Date: 2024/1/13

4.7 Unwanted Emissions above 1 GHz

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|---------------------------------------|-----------------------------------|---|--------------------|---------------------|
| Antenna Tower Max-Full | UNAT_5+ | PAD-CH6-01 | N/A | N/A |
| Antenna Tower Controller Max-Full | MF-7802 | N/A | N/A | N/A |
| Boresight antenna tower fixture BV | BAF-02 | 8 | N/A | N/A |
| Horn Antenna ETS-Lindgren | 3117 | 00143293 | 2023/11/12 | 2024/11/11 |
| Horn Antenna Schwarzbeck | BBHA 9170 | BBHA9170241 | 2023/10/16 | 2024/10/15 |
| MXE EMI Receiver Agilent | N9038A | MY52260177 | 2023/9/15 | 2024/9/14 |
| Preamplifier Agilent | 83017A | MY39501373 | 2023/6/13 | 2024/6/12 |
| Preamplifier EMCI | EMC 184045 | 980116 | 2023/9/27 | 2024/9/26 |
| RF Coaxial Cable ETS-Lindgren | EMC104-SM-SM-10000 | Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4) | 2023/6/13 | 2024/6/12 |
| | RFC-SMS-100-SMS-24-IN | Cable-CH1-02(RFC-SMS-100-SMS-24) | 2023/6/13 | 2024/6/12 |
| RF Coaxial Cable HUBER+SUHNER | SUCOFLEX 104 | CABLE-CH9-(250795/4) | 2023/1/7 | 2024/1/6 |
| RF Coaxial Cable HUBER+SUHNER&EMCI | SUCOFLEX 104& EMC104-SM-SM8000 | CABLE-CH9-02 (248780+171006) | 2023/1/7 | 2024/1/6 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.5 | N/A | N/A | N/A |
| Turn Table Max-Full | TT-1510 | N/A | N/A | N/A |
| Turn Table Controller Max-Full | MF-7802 | N/A | N/A | N/A |

Notes:

1. The test was performed in XD - 966 chamber 6.
2. Tested Date: 2023/11/29

5 Limits of Test Items

5.1 RF Output Power

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

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

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

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

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

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

5.2 Power Spectral Density

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

5.3 6 dB Bandwidth

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

5.4 Conducted Out of Band Emissions

Below 30 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 30 dB below the highest level of the desired power:

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

Notes:

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

5.7 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 30 dB below the highest level of the desired power:

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

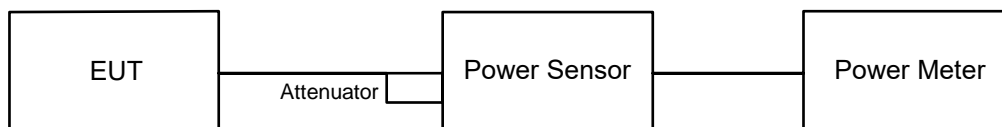
Notes:

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



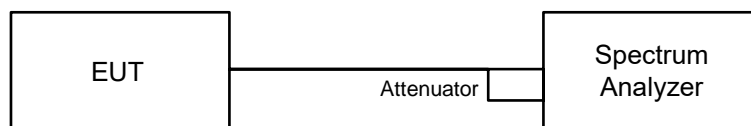
6.1.2 Test Procedure

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

- a. Measure the duty cycle (x).
- b. Set instrument center frequency to DTS channel center frequency.
- c. Set span to at least 1.5 times the OBW.
- d. Set RBW to: 3 kHz.
- e. Set VBW $\geq 3 \times$ RBW.
- f. Detector = power averaging (RMS) or sample detector (when RMS not available).
- g. Ensure that the number of measurement points in the sweep $\geq 2 \times$ span/RBW.
- h. Sweep time = auto couple.
- i. Do not use sweep triggering. Allow sweep to "free run".
- j. Employ trace averaging (RMS) mode over a minimum of 100 traces.
- k. Use the peak marker function to determine the maximum amplitude level.

Note: If Duty cycle < 98%, Add $10 \log (1/x)$, where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time.

6.3 6 dB Bandwidth

6.3.1 Test Setup

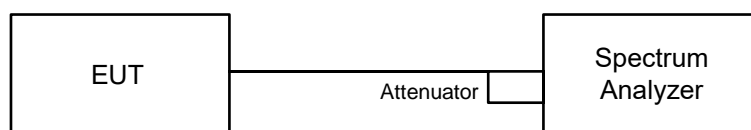


6.3.2 Test Procedure

- 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

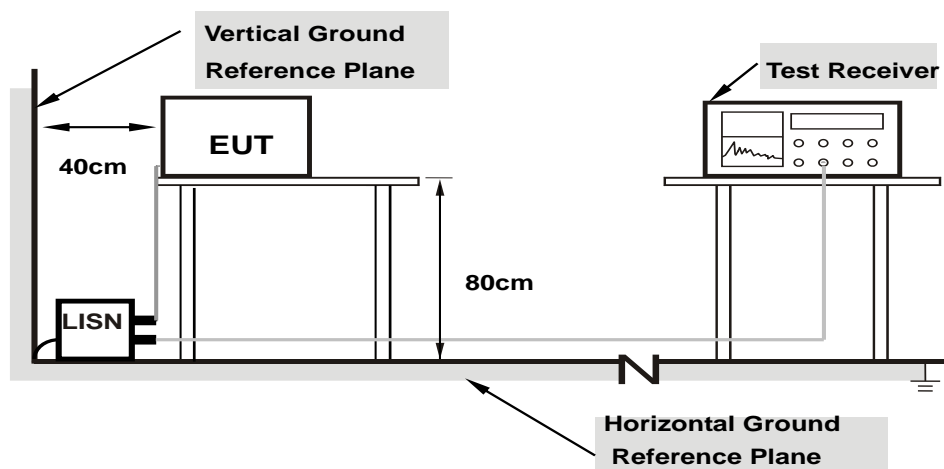
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

- 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

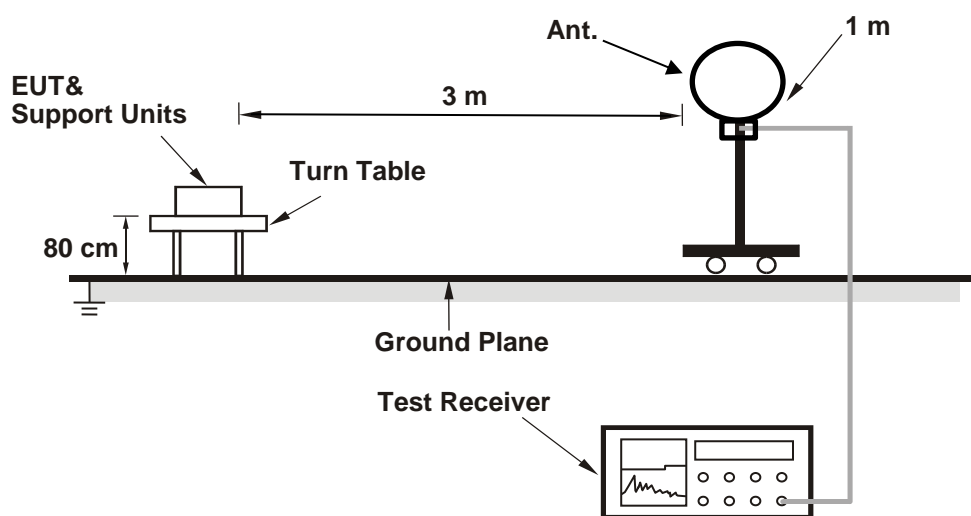
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

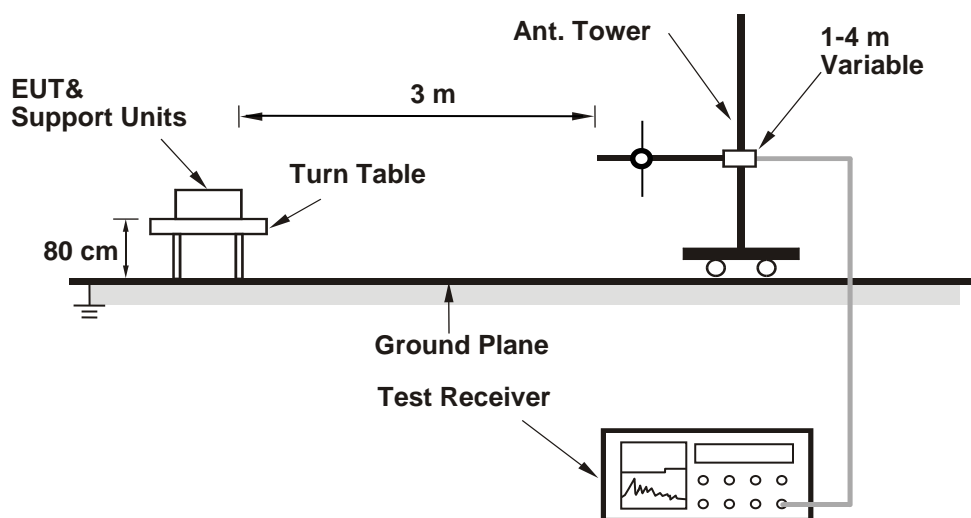
6.6 Unwanted Emissions below 1 GHz

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

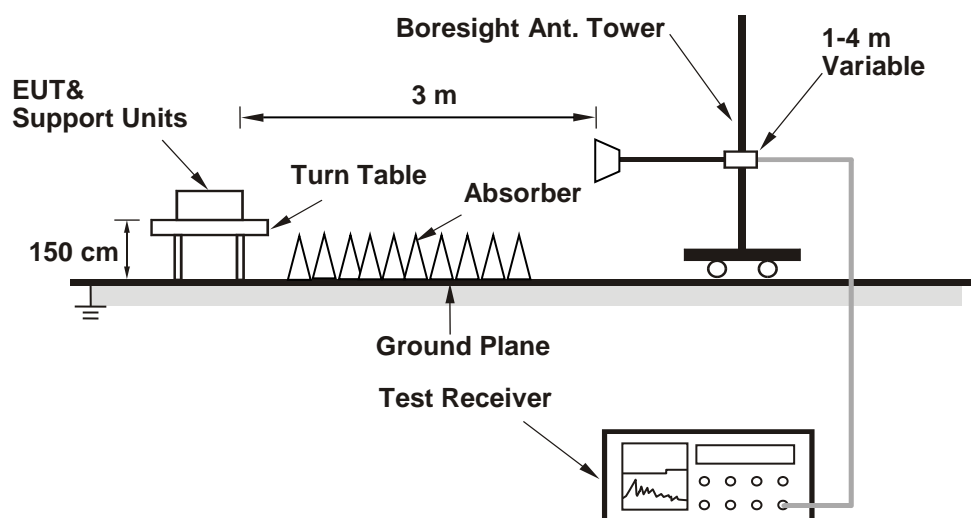
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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: | 240 Vac, 60 Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Henry Hsu |
|--------------|----------------|---------------------------|--------------|------------|-----------|

802.11b

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 1 | 2412 | 19.46 | 17.74 | 147.737 | 21.69 | 30 | Pass |
| 6 | 2437 | 21.65 | 20.82 | 266.999 | 24.27 | 30 | Pass |
| 11 | 2462 | 19.22 | 17.84 | 144.374 | 21.59 | 30 | Pass |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.6 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11g

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 1 | 2412 | 17.09 | 15.33 | 85.287 | 19.31 | 30 | Pass |
| 6 | 2437 | 16.59 | 15.02 | 77.372 | 18.89 | 30 | Pass |
| 11 | 2462 | 14.65 | 12.86 | 48.494 | 16.86 | 30 | Pass |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.6 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 1 | 2412 | 15.49 | 13.89 | 59.89 | 17.77 | 30 | Pass |
| 6 | 2437 | 19.43 | 18.84 | 164.26 | 22.16 | 30 | Pass |
| 11 | 2462 | 16.02 | 15.26 | 73.568 | 18.67 | 30 | Pass |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.6 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 3 | 2422 | 14.11 | 11.92 | 41.323 | 16.16 | 30 | Pass |
| 6 | 2437 | 16.52 | 14.67 | 74.183 | 18.70 | 30 | Pass |
| 9 | 2452 | 13.77 | 12.23 | 40.534 | 16.08 | 30 | Pass |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 3.6 dBi < 6 dBi, so the output power limit shall not be reduced.

7.2 Power Spectral Density

| | | | | | |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 240 Vac, 60 Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Henry Hsu |
|--------------|----------------|---------------------------|--------------|------------|-----------|

802.11b

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/3kHz) | | Duty Factor (dB) | Total PSD (dBm/3kHz) | PSD Limit (dBm/3kHz) | Test Result |
|-------|-------------------|--------------------------------|---------|------------------|----------------------|----------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 1 | 2412 | -9.61 | -11.36 | 2.09 | -5.30 | 7.39 | Pass |
| 6 | 2437 | -7.49 | -8.23 | 2.09 | -2.74 | 7.39 | Pass |
| 11 | 2462 | -9.87 | -11.24 | 2.09 | -5.40 | 7.39 | Pass |

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- The directional gain is 6.61 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (6.61 - 6) = 7.39$ dBm/3kHz.

802.11g

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/3kHz) | | Duty Factor (dB) | Total PSD (dBm/3kHz) | PSD Limit (dBm/3kHz) | Test Result |
|-------|-------------------|--------------------------------|---------|------------------|----------------------|----------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 1 | 2412 | -14.48 | -16.25 | 0.26 | -12.01 | 7.39 | Pass |
| 6 | 2437 | -14.96 | -16.56 | 0.26 | -12.42 | 7.39 | Pass |
| 11 | 2462 | -16.91 | -18.72 | 0.26 | -14.45 | 7.39 | Pass |

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- The directional gain is 6.61 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (6.61 - 6) = 7.39$ dBm/3kHz.

802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/3kHz) | | Duty Factor (dB) | Total PSD (dBm/3kHz) | PSD Limit (dBm/3kHz) | Test Result |
|-------|-------------------|--------------------------------|---------|------------------|----------------------|----------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 1 | 2412 | -15.00 | -16.57 | 0.33 | -12.37 | 7.39 | Pass |
| 6 | 2437 | -11.05 | -11.65 | 0.33 | -8.00 | 7.39 | Pass |
| 11 | 2462 | -14.45 | -15.25 | 0.33 | -11.49 | 7.39 | Pass |

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
- The directional gain is 6.61 dBi > 6 dBi, so the power density limit shall be reduced to $8 - (6.61 - 6) = 7.39$ dBm/3kHz.

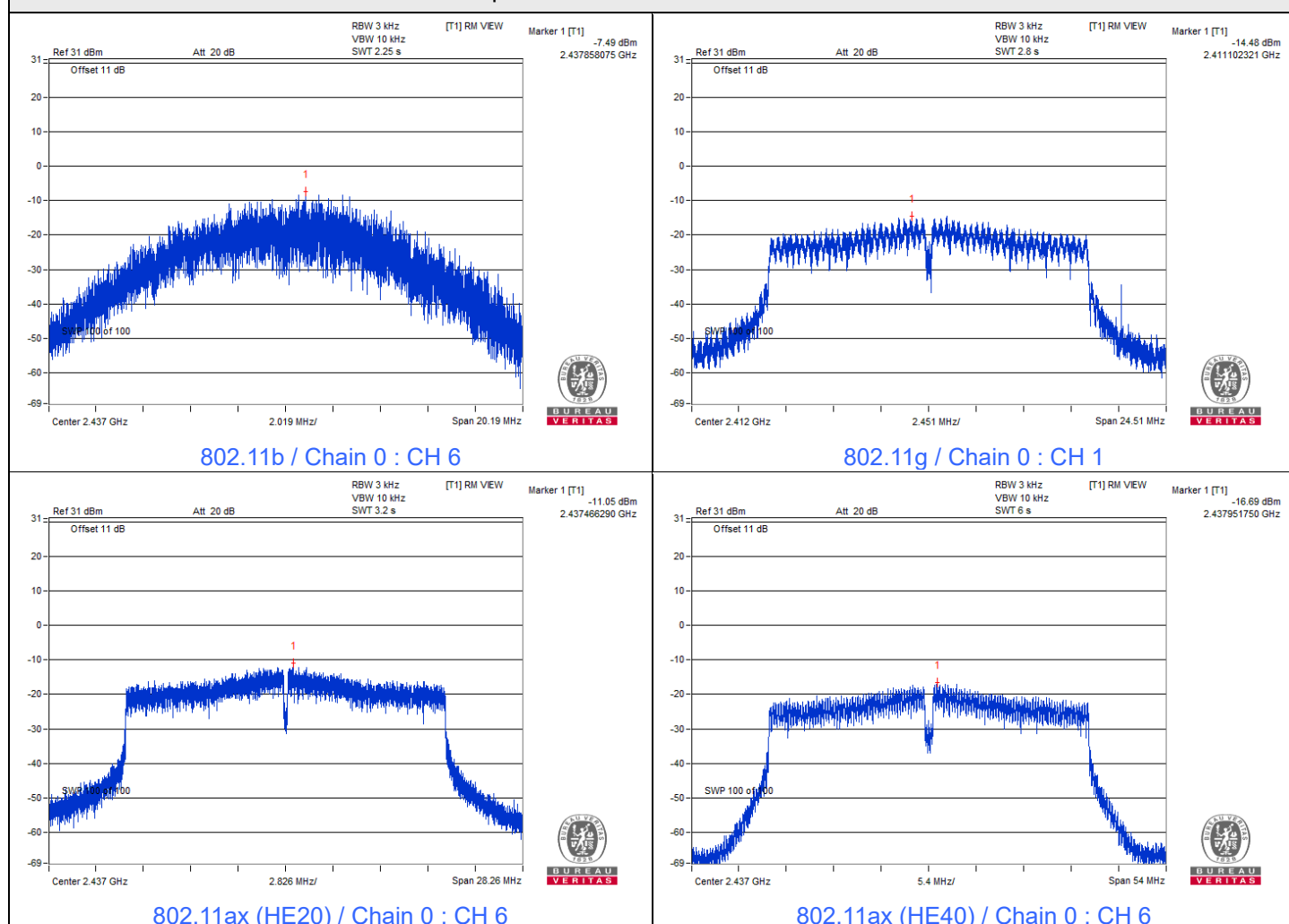
802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/3kHz) | | Duty Factor (dB) | Total PSD (dBm/3kHz) | PSD Limit (dBm/3kHz) | Test Result |
|-------|-------------------|--------------------------------|---------|------------------|----------------------|----------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 3 | 2422 | -19.06 | -21.29 | 0.65 | -16.37 | 7.39 | Pass |
| 6 | 2437 | -16.69 | -18.49 | 0.65 | -13.83 | 7.39 | Pass |
| 9 | 2452 | -19.44 | -20.96 | 0.65 | -16.47 | 7.39 | Pass |

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. The directional gain is 6.61 dBi > 6 dBi, so the power density limit shall be reduced to 8-(6.61-6) = 7.39 dBm/3kHz.

Spectrum Plot of Maximum Value



7.3 6 dB Bandwidth

| | | | | | |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 240 Vac, 60 Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Henry Hsu |
|--------------|----------------|---------------------------|--------------|------------|-----------|

802.11b

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | | Minimum Limit (MHz) | Test Result |
|---------|-----------------|----------------------|---------|---------------------|-------------|
| | | Chain 0 | Chain 1 | | |
| 1 | 2412 | 9.01 | 8.53 | 0.5 | Pass |
| 6 | 2437 | 8.56 | 9.01 | 0.5 | Pass |
| 11 | 2462 | 8.50 | 8.56 | 0.5 | Pass |

802.11g

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | | Minimum Limit (MHz) | Test Result |
|---------|-----------------|----------------------|---------|---------------------|-------------|
| | | Chain 0 | Chain 1 | | |
| 1 | 2412 | 15.14 | 15.04 | 0.5 | Pass |
| 6 | 2437 | 15.12 | 15.15 | 0.5 | Pass |
| 11 | 2462 | 15.11 | 15.10 | 0.5 | Pass |

802.11ax (HE20)

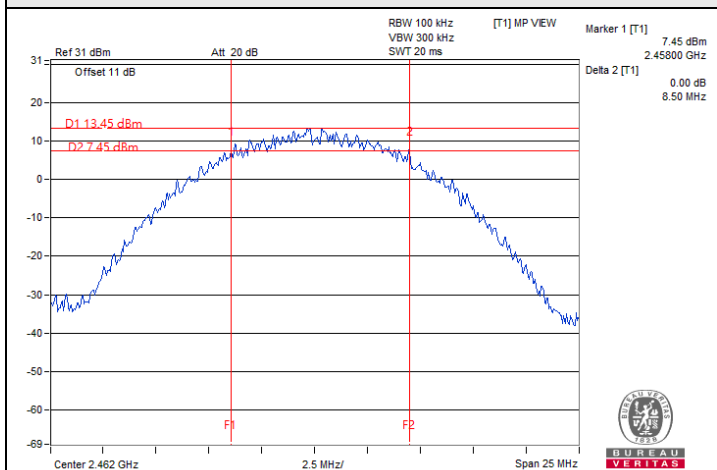
| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | | Minimum Limit (MHz) | Test Result |
|---------|-----------------|----------------------|---------|---------------------|-------------|
| | | Chain 0 | Chain 1 | | |
| 1 | 2412 | 16.07 | 15.14 | 0.5 | Pass |
| 6 | 2437 | 15.09 | 15.10 | 0.5 | Pass |
| 11 | 2462 | 15.14 | 15.03 | 0.5 | Pass |

802.11ax (HE40)

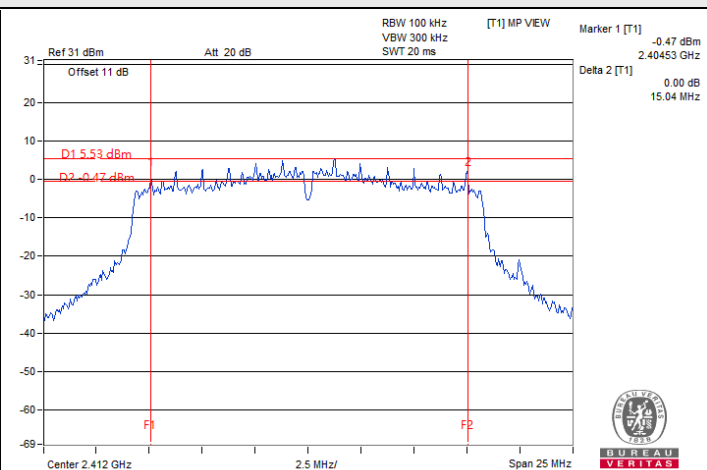
| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | | Minimum Limit (MHz) | Test Result |
|---------|-----------------|----------------------|---------|---------------------|-------------|
| | | Chain 0 | Chain 1 | | |
| 3 | 2422 | 35.04 | 32.74 | 0.5 | Pass |
| 6 | 2437 | 33.97 | 33.89 | 0.5 | Pass |
| 9 | 2452 | 30.06 | 25.25 | 0.5 | Pass |



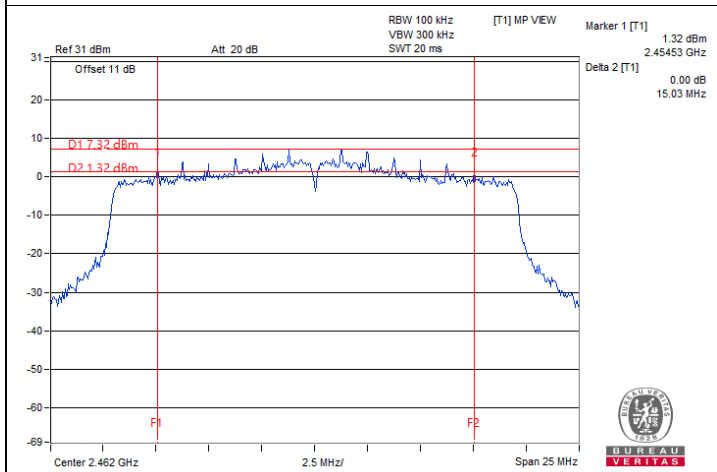
Spectrum Plot of Minimum Value



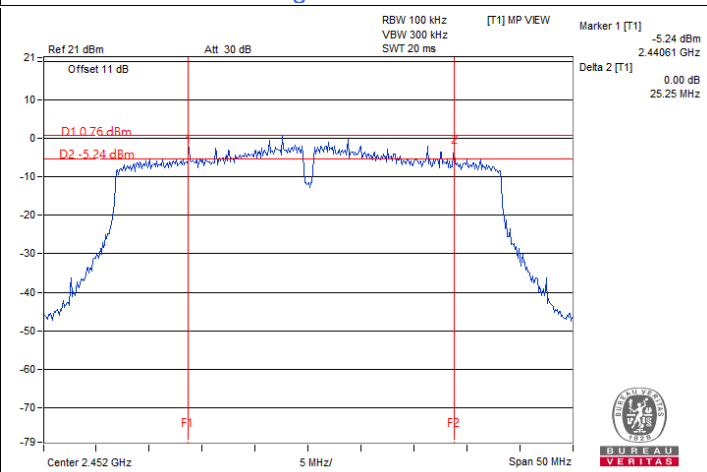
802.11b / Chain 0 : CH 11



802.11g / Chain 1 : CH 1



802.11ax (HE20) / Chain 1 : CH 11



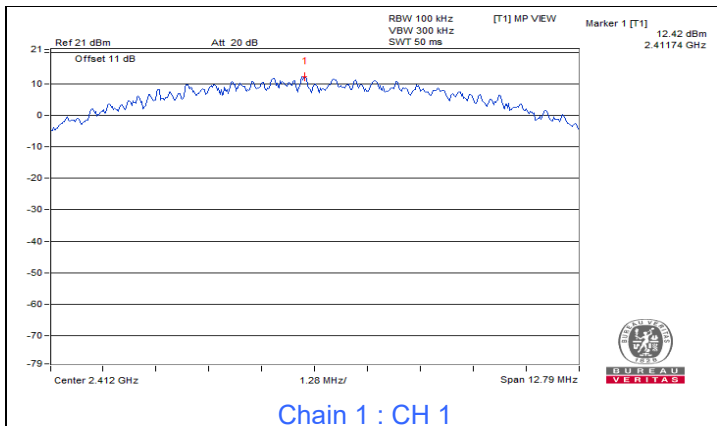
802.11ax (HE40) / Chain 1 : CH 9

7.4 Conducted Out of Band Emissions

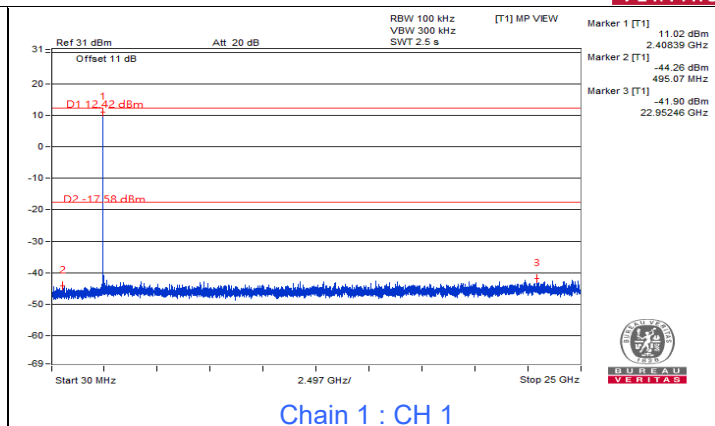
| | | | | | |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 240 Vac, 60 Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Henry Hsu |
|--------------|----------------|---------------------------|--------------|------------|-----------|

802.11b

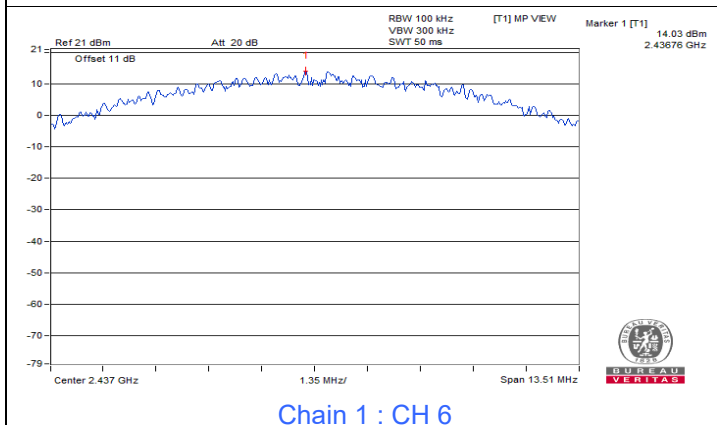




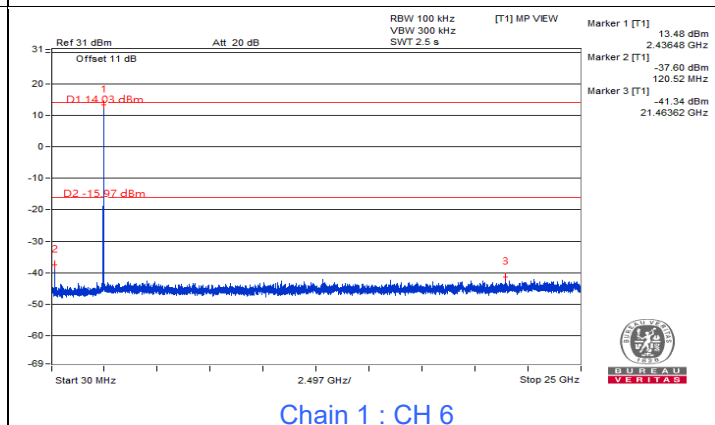
Chain 1 : CH 1



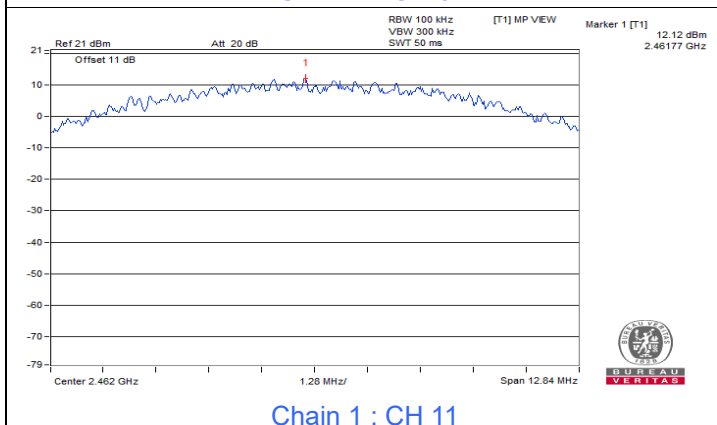
Chain 1 : CH 1



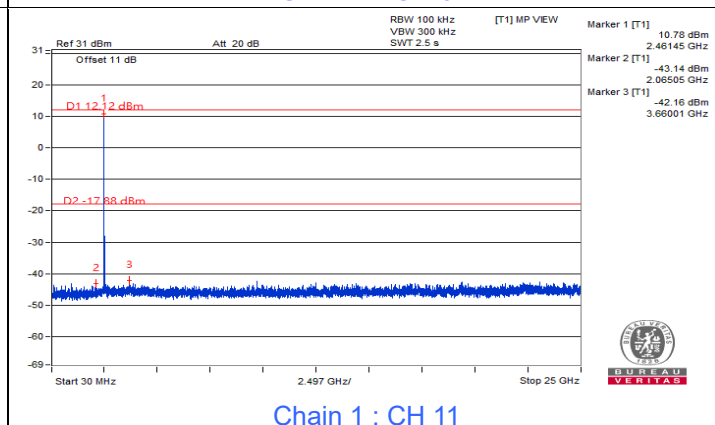
Chain 1 : CH 6



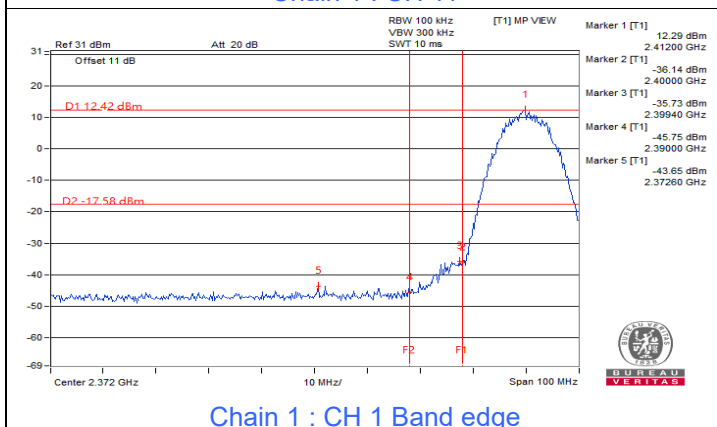
Chain 1 : CH 6



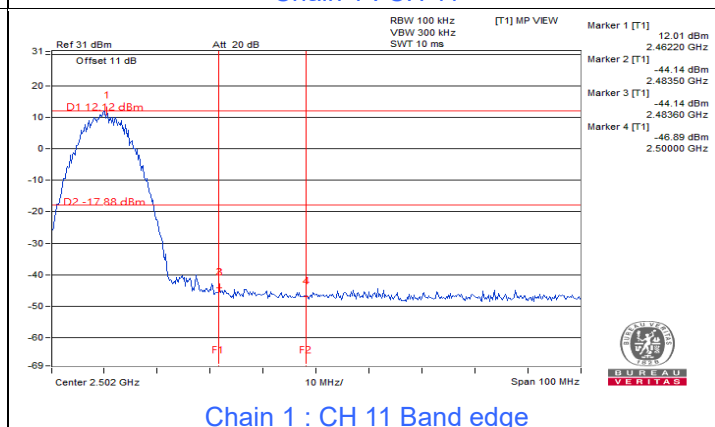
Chain 1 : CH 11



Chain 1 : CH 11



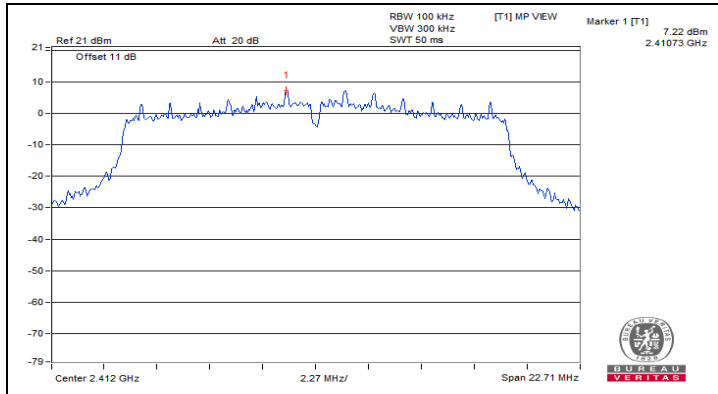
Chain 1 : CH 1 Band edge



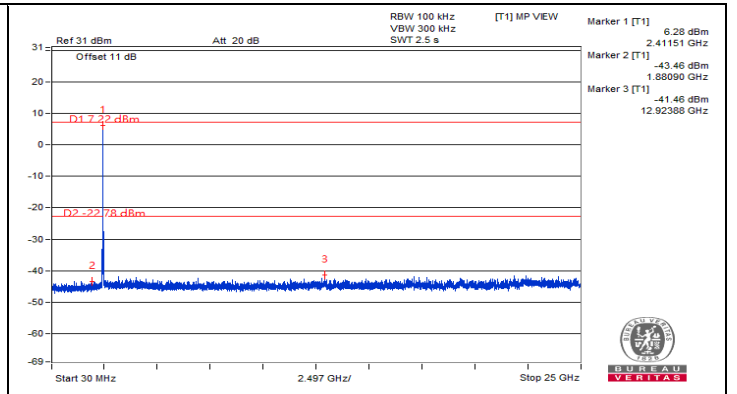
Chain 1 : CH 11 Band edge



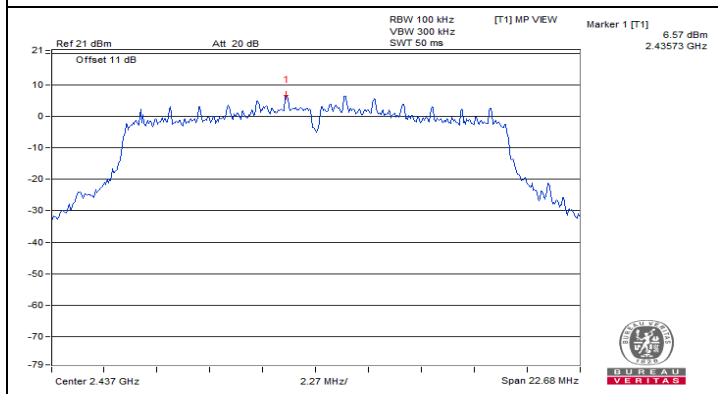
802.11g



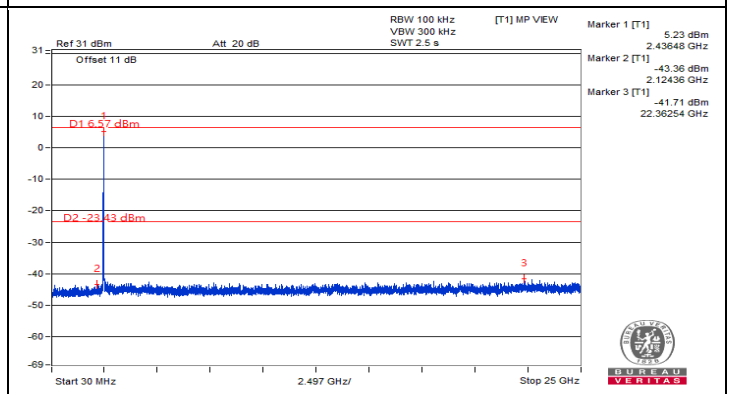
Chain 0 : CH 1



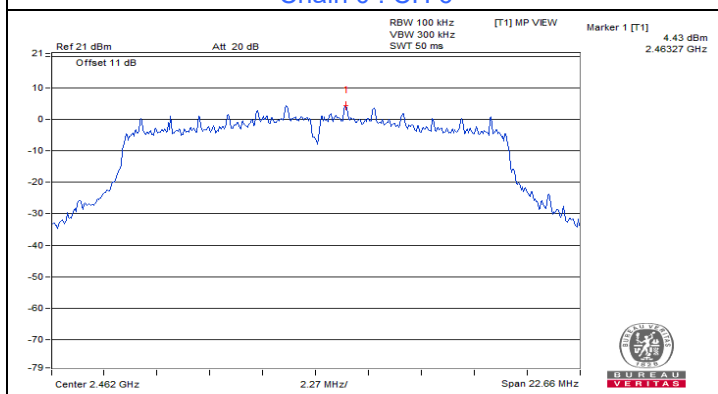
Chain 0 : CH 1



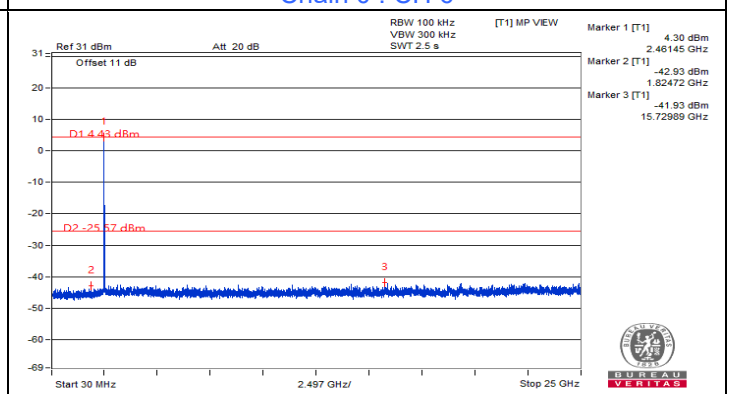
Chain 0 : CH 6



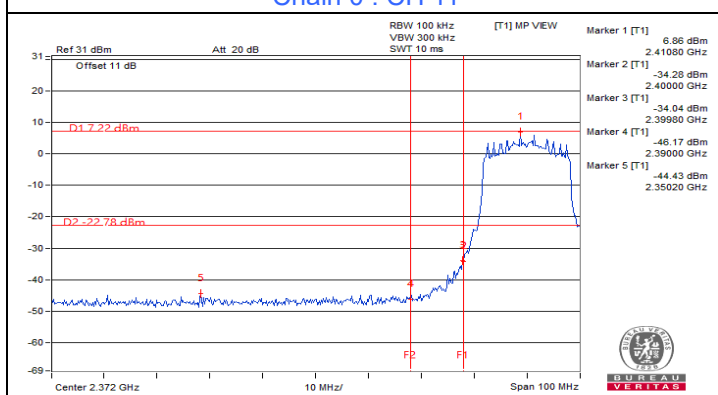
Chain 0 : CH 6



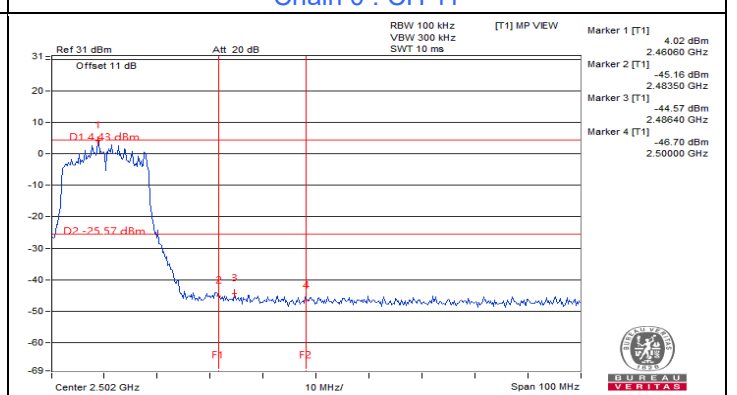
Chain 0 : CH 11



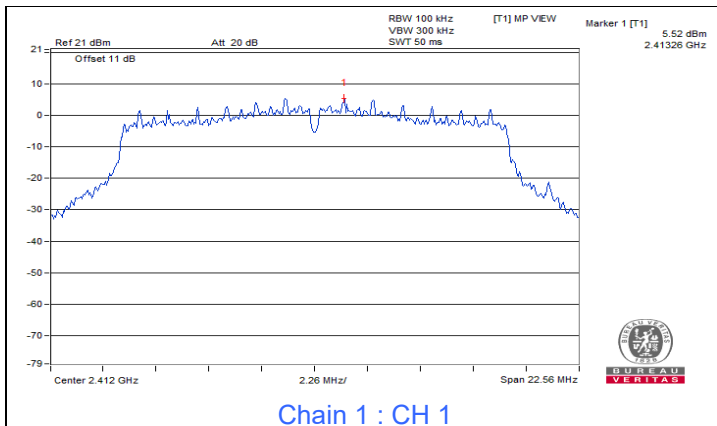
Chain 0 : CH 11



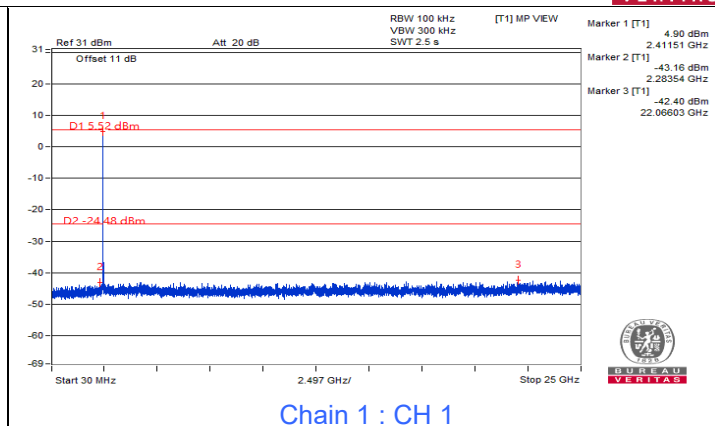
Chain 0 : CH 1 Band edge



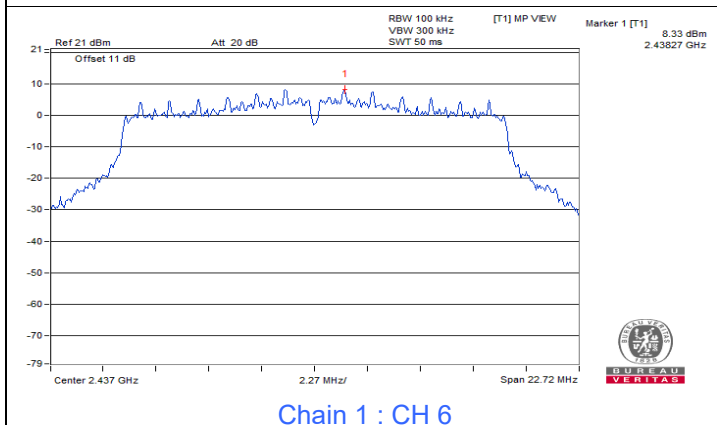
Chain 0 : CH 11 Band edge



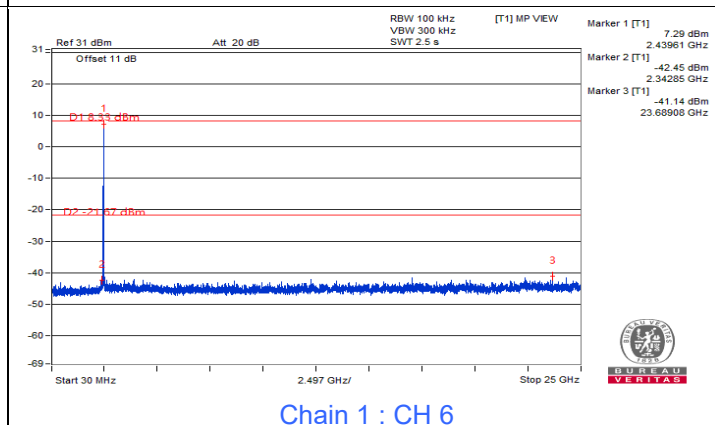
Chain 1 : CH 1



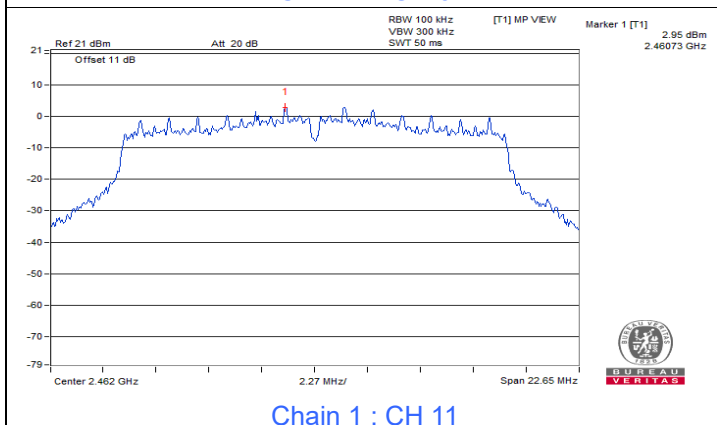
Chain 1 : CH 1



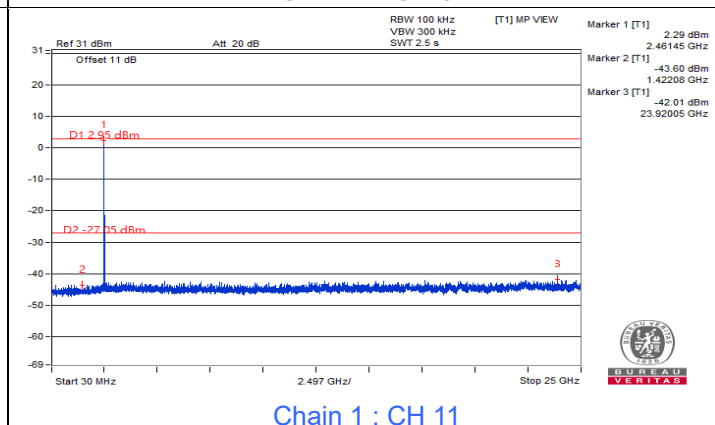
Chain 1 : CH 6



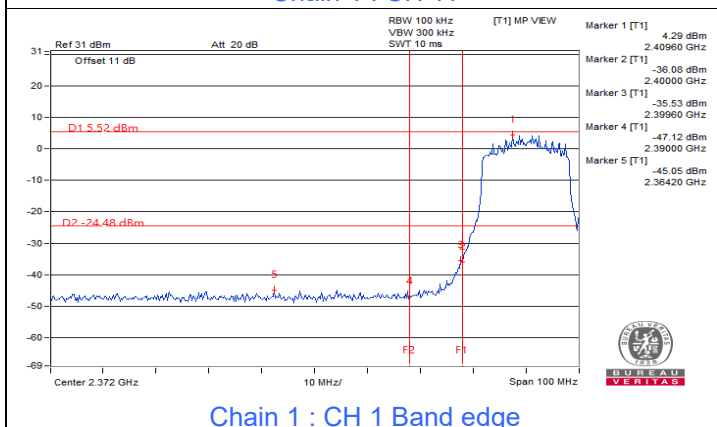
Chain 1 : CH 6



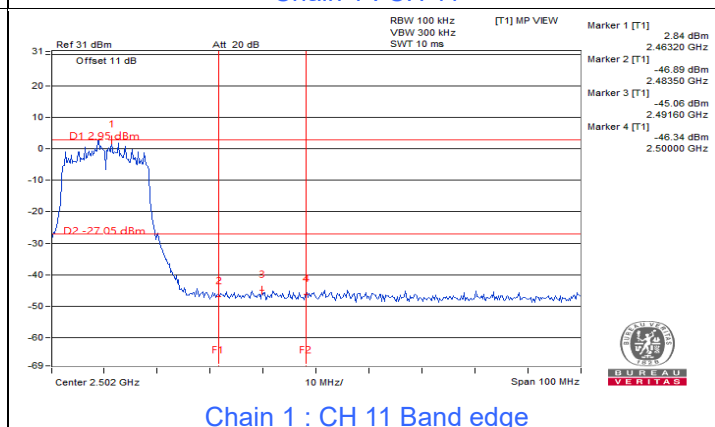
Chain 1 : CH 11



Chain 1 : CH 11



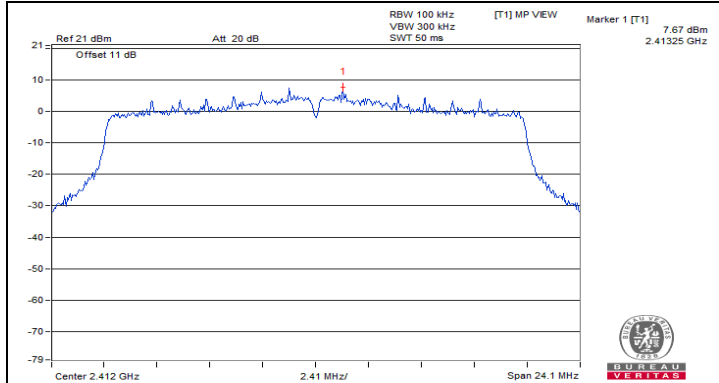
Chain 1 : CH 1 Band edge



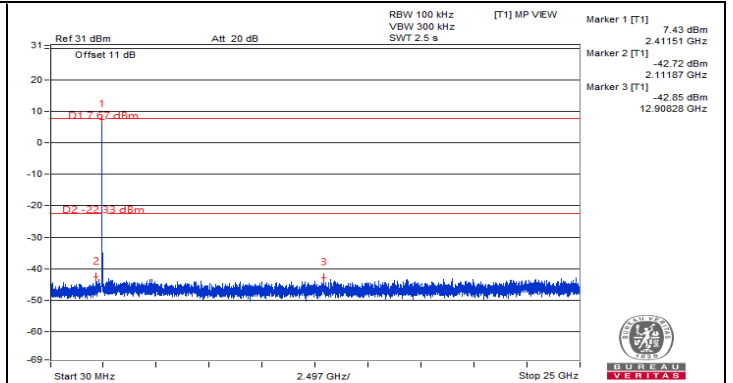
Chain 1 : CH 11 Band edge



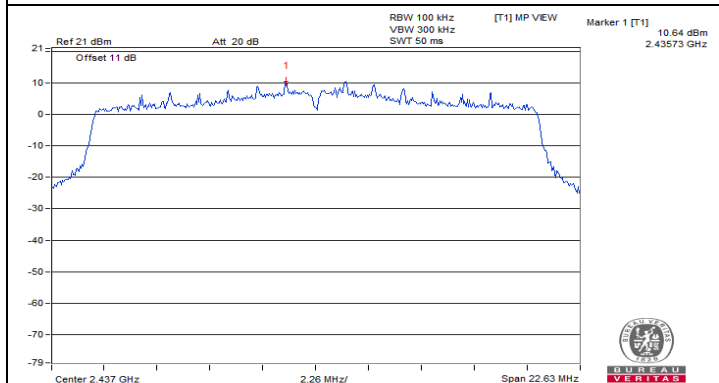
802.11ax (HE20)



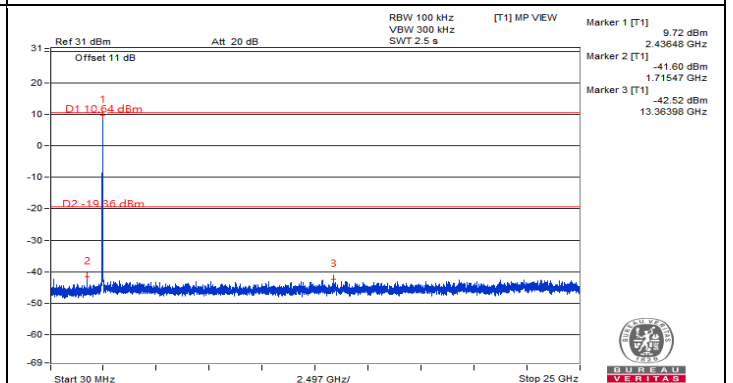
Chain 0 : CH 1



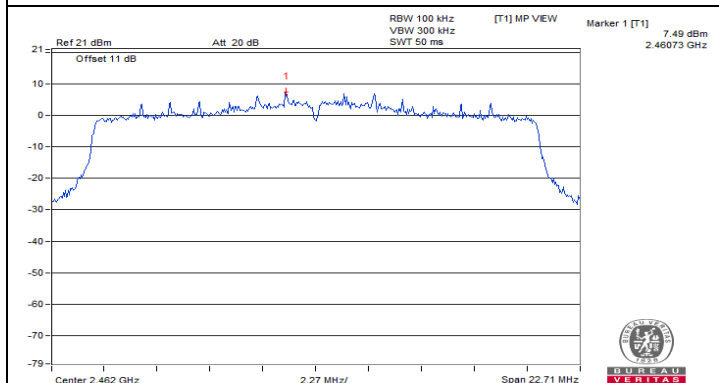
Chain 0 : CH 1



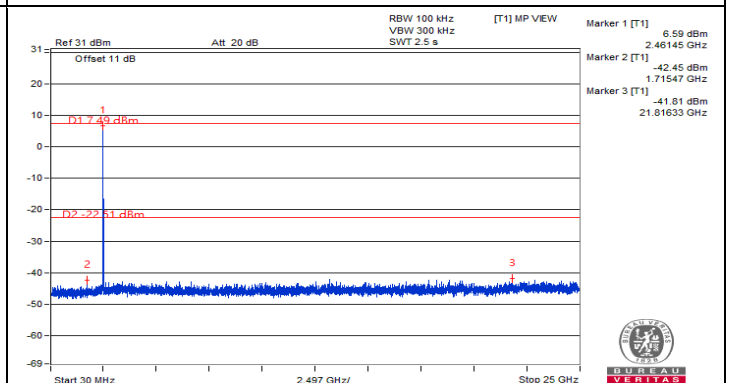
Chain 0 : CH 6



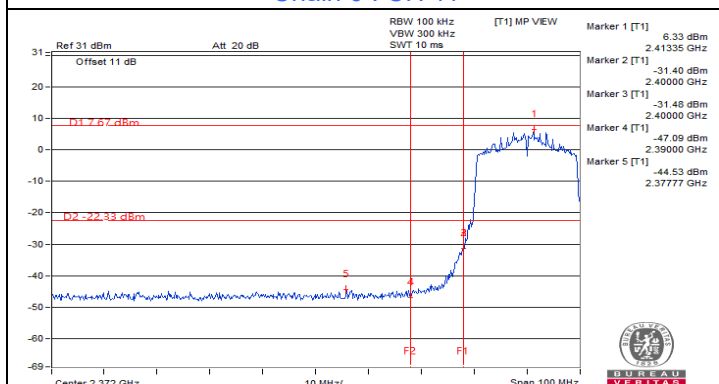
Chain 0 : CH 6



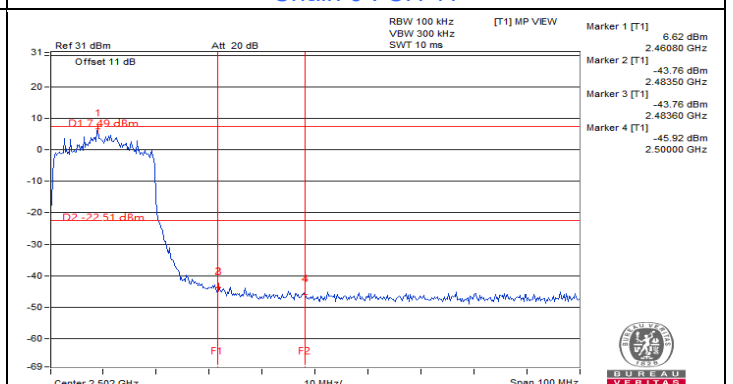
Chain 0 : CH 11



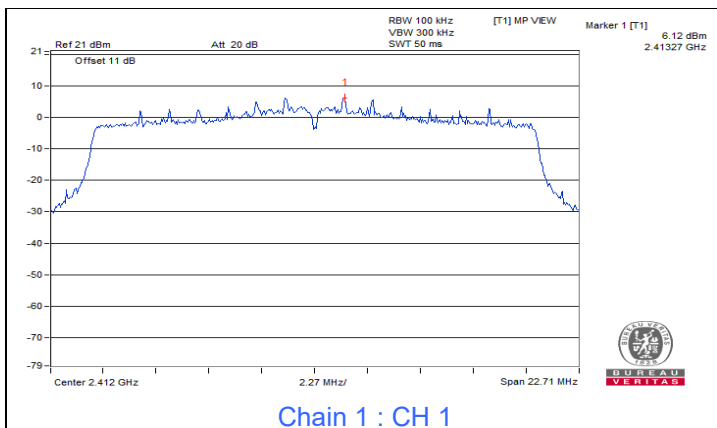
Chain 0 : CH 11



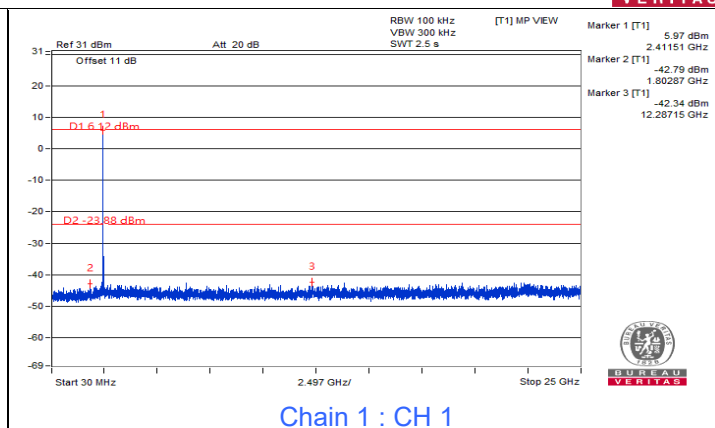
Chain 0 : CH 1 Band edge



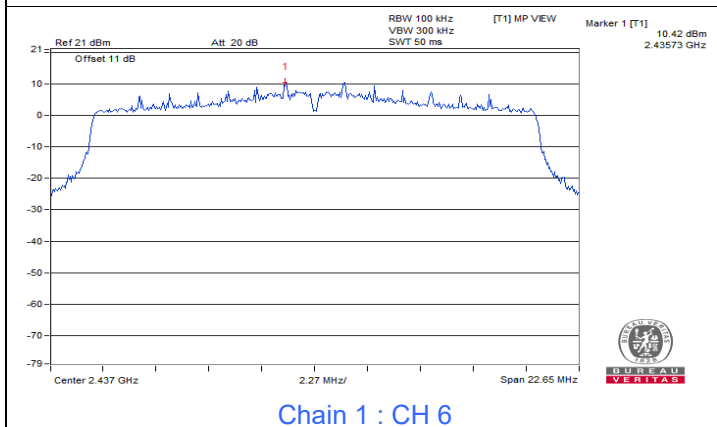
Chain 0 : CH 11 Band edge



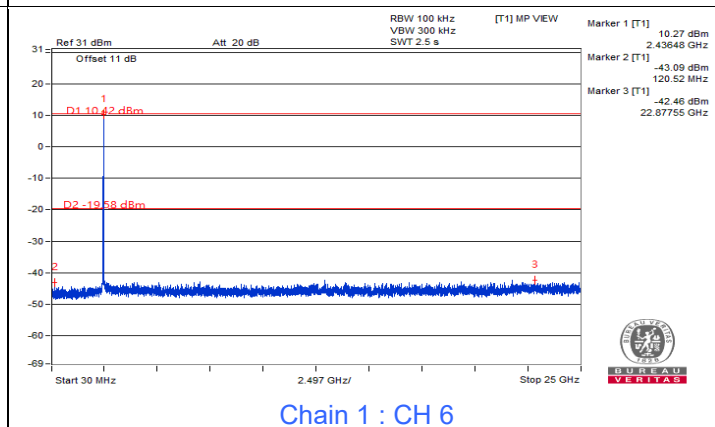
Chain 1 : CH 1



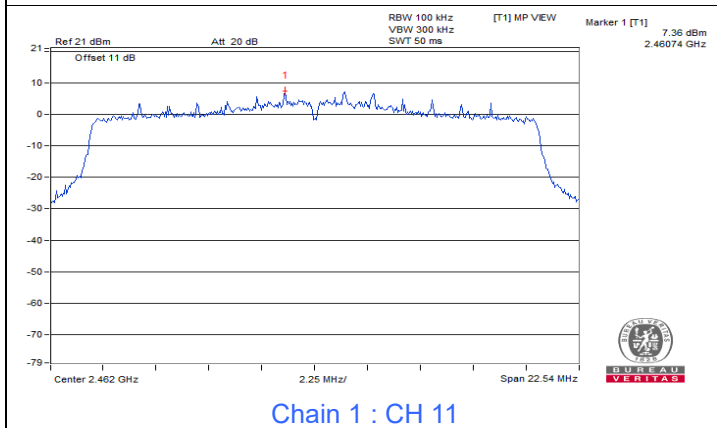
Chain 1 : CH 1



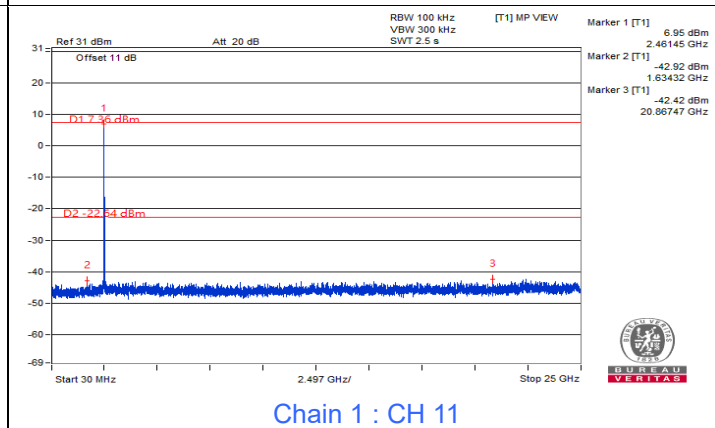
Chain 1 : CH 6



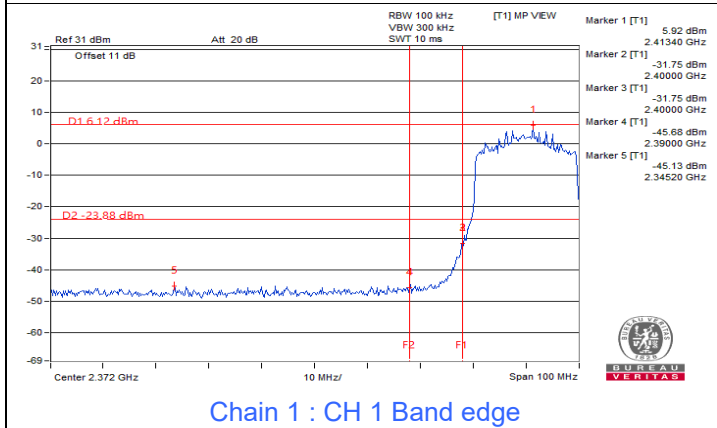
Chain 1 : CH 6



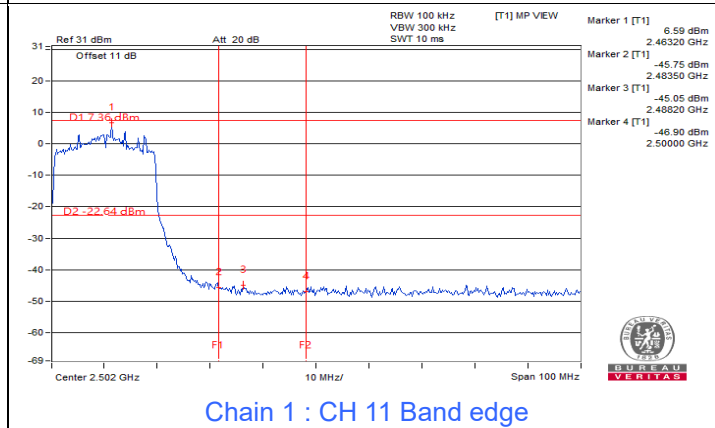
Chain 1 : CH 11



Chain 1 : CH 11



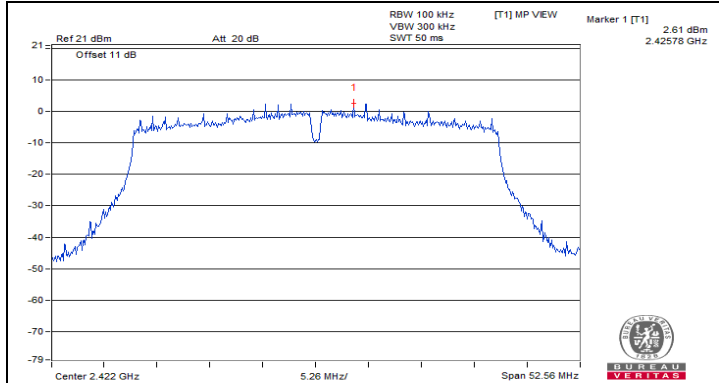
Chain 1 : CH 1 Band edge



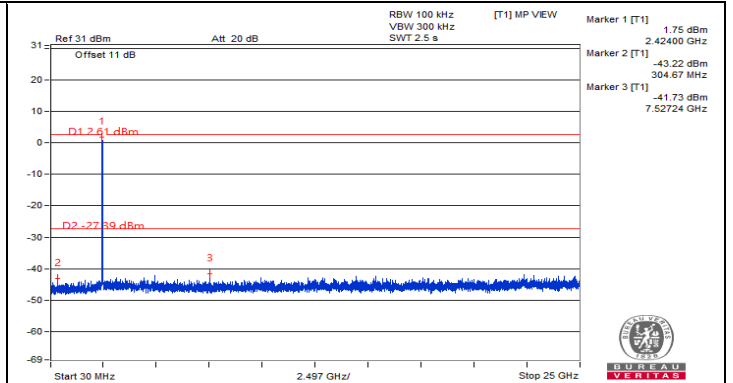
Chain 1 : CH 11 Band edge



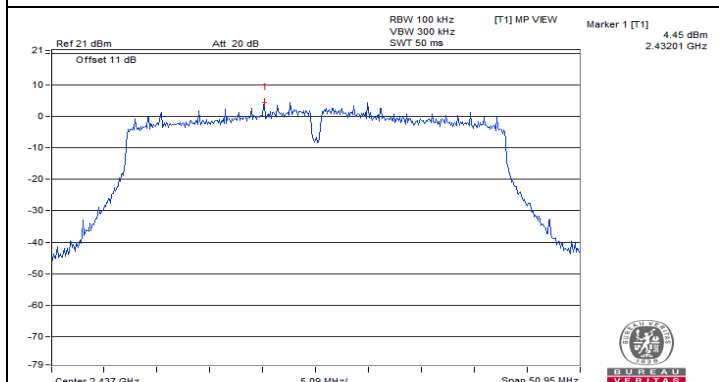
802.11ax (HE40)



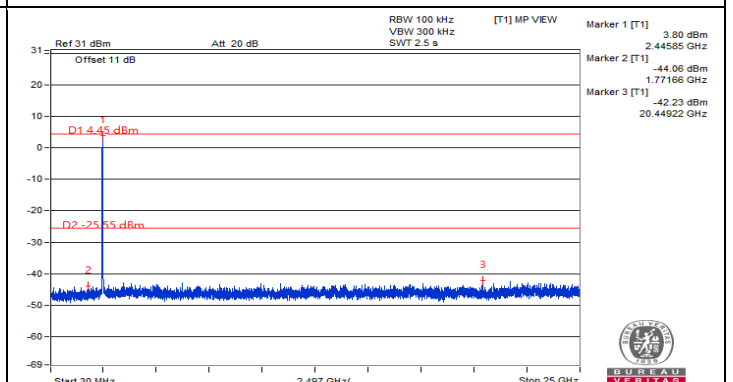
Chain 0 : CH 3



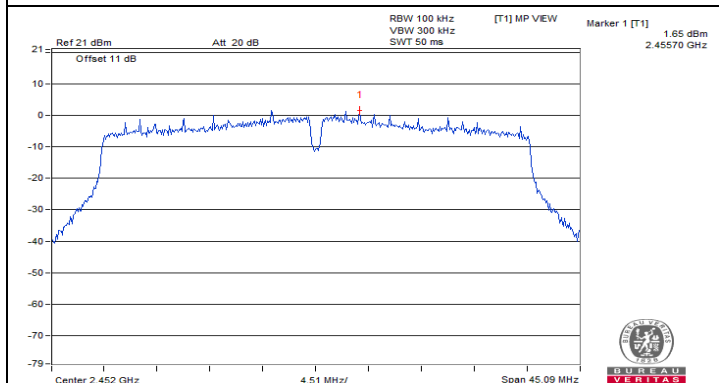
Chain 0 : CH 3



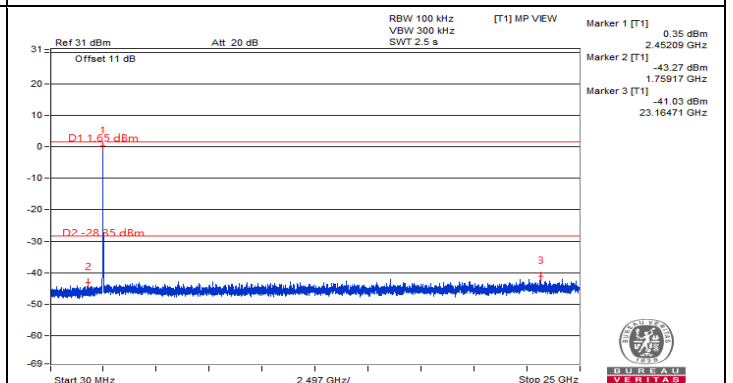
Chain 0 : CH 6



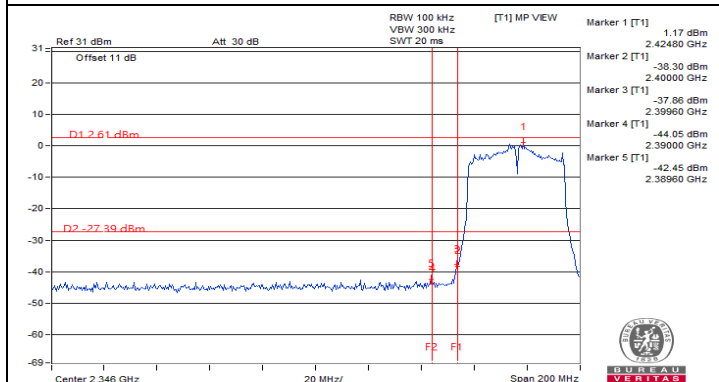
Chain 0 : CH 6



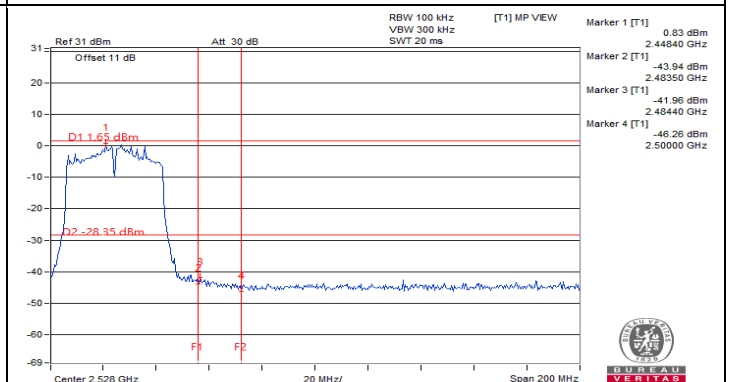
Chain 0 : CH 9



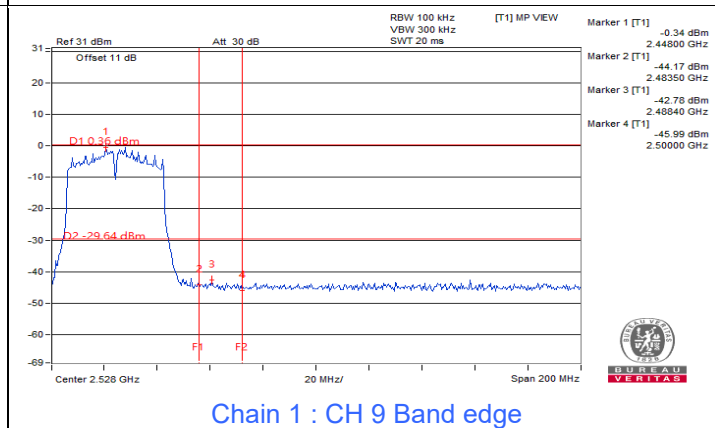
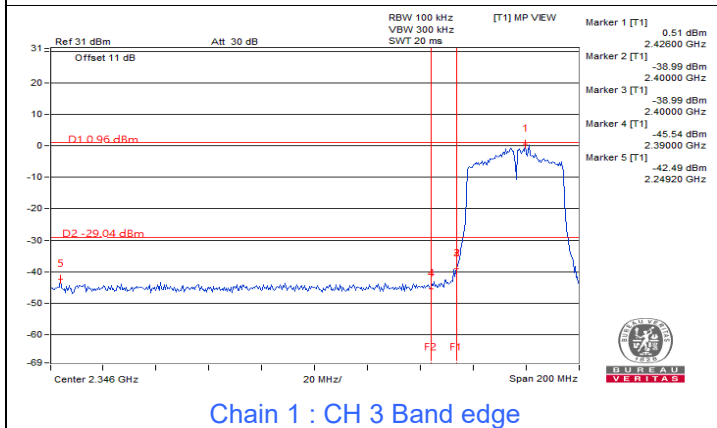
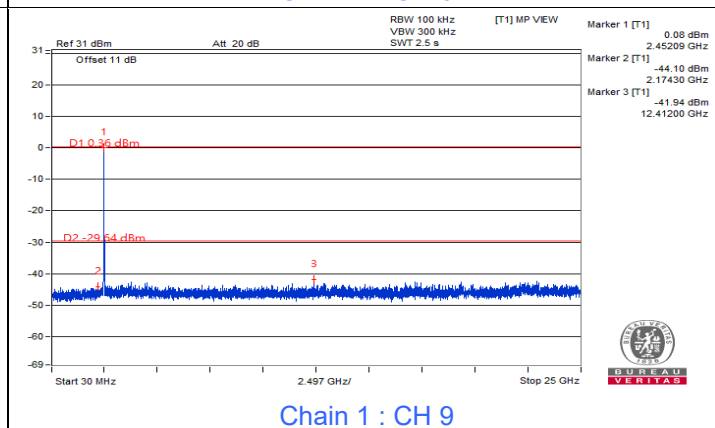
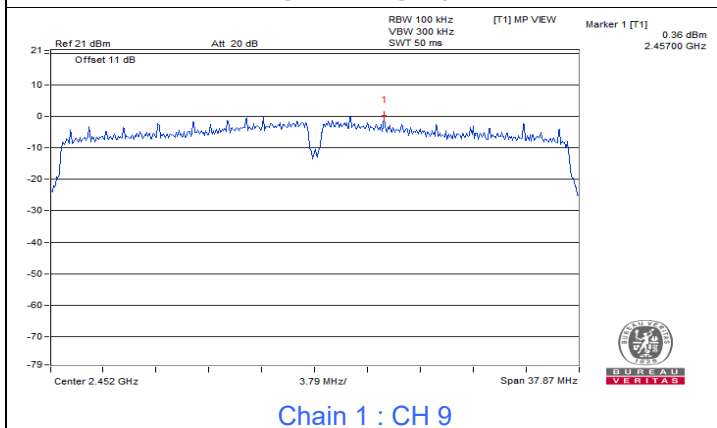
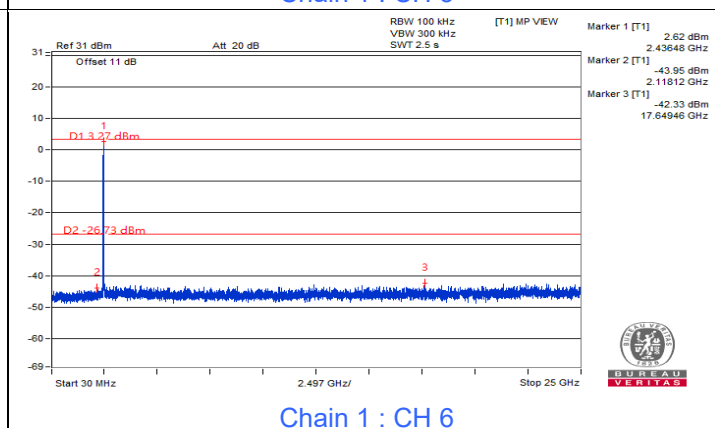
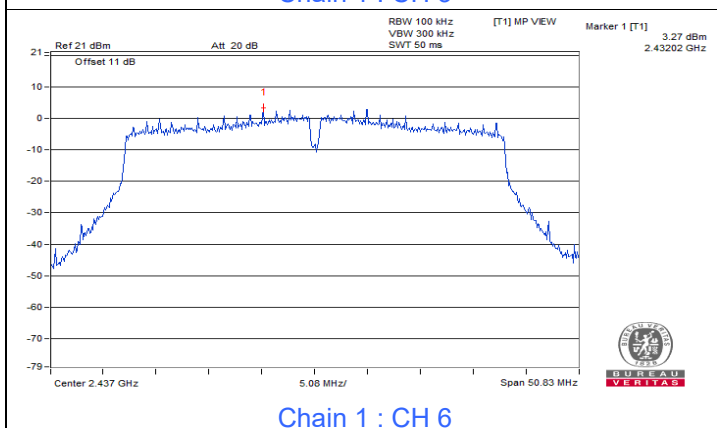
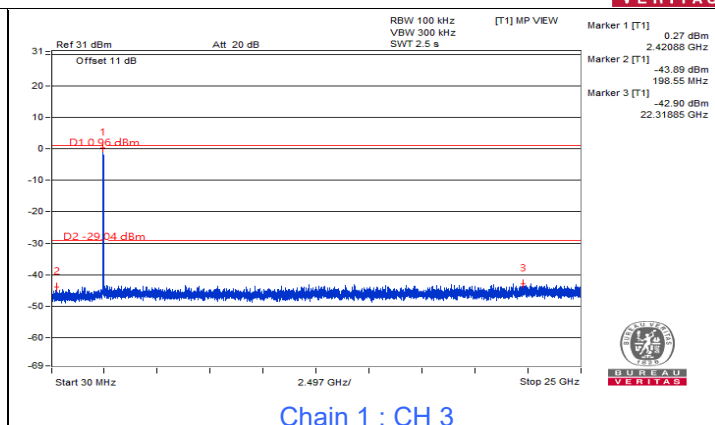
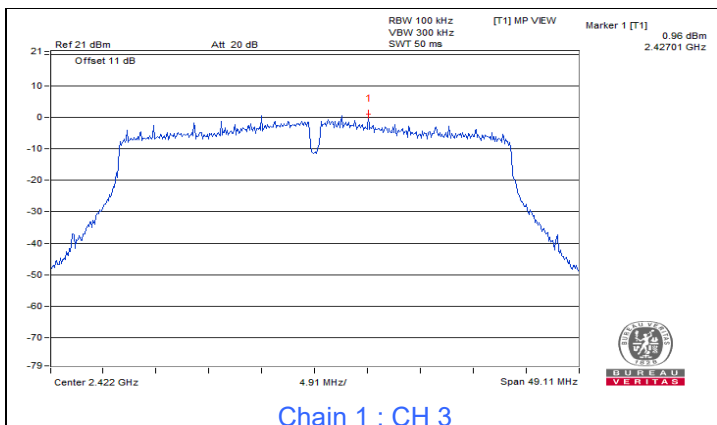
Chain 0 : CH 9



Chain 0 : CH 3 Band edge



Chain 0 : CH 9 Band edge



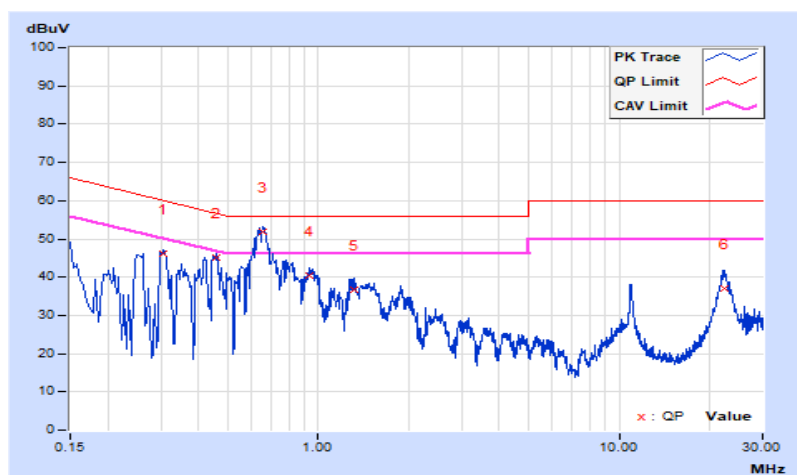
7.5 AC Power Conducted Emissions

| | | | |
|-----------------|------------------|--|---------------------------------------|
| RF Mode | 802.11b | Channel | CH 6 : 2437 MHz |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 23°C, 72% RH |
| Tested By | vincent chen | | |

| Phase Of Power : Line (L) | | | | | | | | | | |
|---------------------------|-----------------|------------------------|----------------------|--------------|-----------------------|--------------|--------------|--------------|--------------|--------------|
| No | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) | | Emission Level (dBuV) | | Limit (dBuV) | | Margin (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.30600 | 10.38 | 35.91 | 29.50 | 46.29 | 39.88 | 60.08 | 50.08 | -13.79 | -10.20 |
| 2 | 0.45800 | 10.42 | 34.71 | 26.42 | 45.13 | 36.84 | 56.73 | 46.73 | -11.60 | -9.89 |
| 3 | 0.65400 | 10.42 | 41.58 | 32.17 | 52.00 | 42.59 | 56.00 | 46.00 | -4.00 | -3.41 |
| 4 | 0.93800 | 10.43 | 29.94 | 18.47 | 40.37 | 28.90 | 56.00 | 46.00 | -15.63 | -17.10 |
| 5 | 1.31000 | 10.43 | 26.26 | 15.74 | 36.69 | 26.17 | 56.00 | 46.00 | -19.31 | -19.83 |
| 6 | 22.49000 | 10.66 | 26.42 | 20.79 | 37.08 | 31.45 | 60.00 | 50.00 | -22.92 | -18.55 |

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

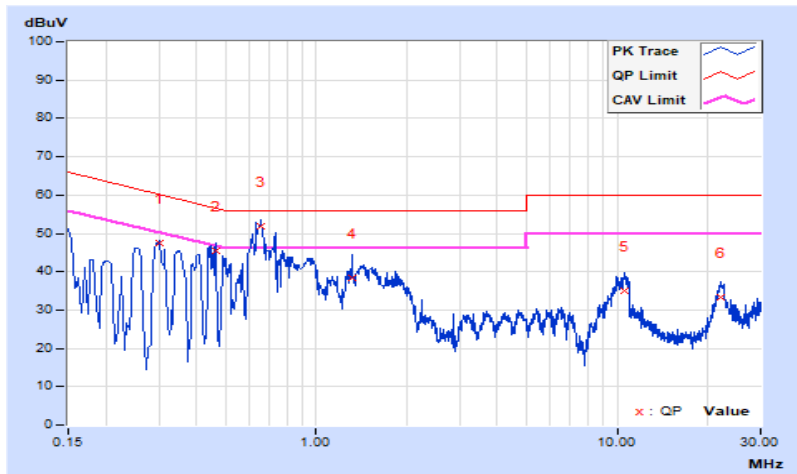


| | | | |
|------------------------|------------------|---|---------------------------------------|
| RF Mode | 802.11b | Channel | CH 6 : 2437 MHz |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 23°C, 72% RH |
| Tested By | vincent chen | | |

| Phase Of Power : Neutral (N) | | | | | | | | | | |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) | | Emission Level (dBuV) | | Limit (dBuV) | | Margin (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.30200 | 10.40 | 36.92 | 31.66 | 47.32 | 42.06 | 60.19 | 50.19 | -12.87 | -8.13 |
| 2 | 0.46200 | 10.44 | 35.05 | 22.96 | 45.49 | 33.40 | 56.66 | 46.66 | -11.17 | -13.26 |
| 3 | 0.65400 | 10.44 | 41.37 | 32.14 | 51.81 | 42.58 | 56.00 | 46.00 | -4.19 | -3.42 |
| 4 | 1.31400 | 10.45 | 27.93 | 18.60 | 38.38 | 29.05 | 56.00 | 46.00 | -17.62 | -16.95 |
| 5 | 10.57000 | 10.67 | 24.49 | 18.60 | 35.16 | 29.27 | 60.00 | 50.00 | -24.84 | -20.73 |
| 6 | 22.11400 | 10.84 | 22.47 | 16.68 | 33.31 | 27.52 | 60.00 | 50.00 | -26.69 | -22.48 |

Remarks:

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



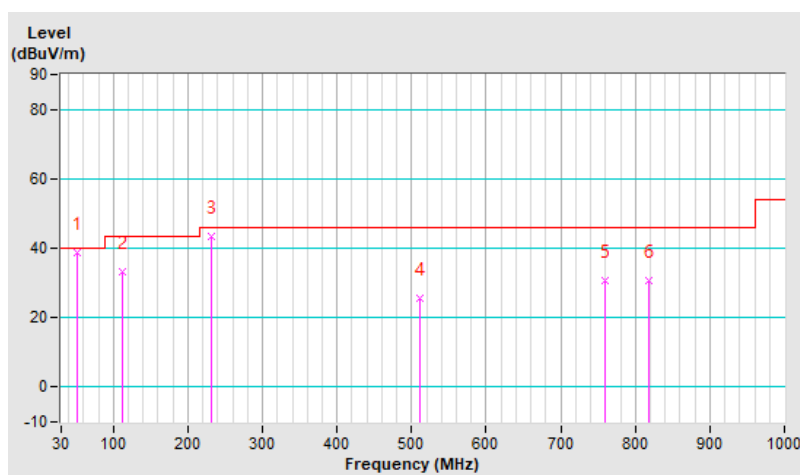
7.6 Unwanted Emissions below 1 GHz

| | | | |
|------------------------|----------------|--|-------------------------------|
| RF Mode | 802.11b | Channel | CH 6 : 2437 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | QP: RB=120kHz, DET=Quasi-Peak |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 24°C, 78% RH |
| Tested By | Karl Lee | | |

| 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 | 52.31 | 38.7 QP | 40.0 | -1.3 | 1.00 H | 61 | 51.2 | -12.5 |
| 2 | 111.48 | 33.3 QP | 43.5 | -10.2 | 2.00 H | 176 | 48.7 | -15.4 |
| 3 | 231.76 | 43.4 QP | 46.0 | -2.6 | 1.00 H | 206 | 58.5 | -15.1 |
| 4 | 510.15 | 25.6 QP | 46.0 | -20.4 | 1.50 H | 87 | 32.1 | -6.5 |
| 5 | 760.41 | 30.8 QP | 46.0 | -15.2 | 2.00 H | 92 | 31.9 | -1.1 |
| 6 | 818.61 | 30.8 QP | 46.0 | -15.2 | 1.00 H | 1 | 31.7 | -0.9 |

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.

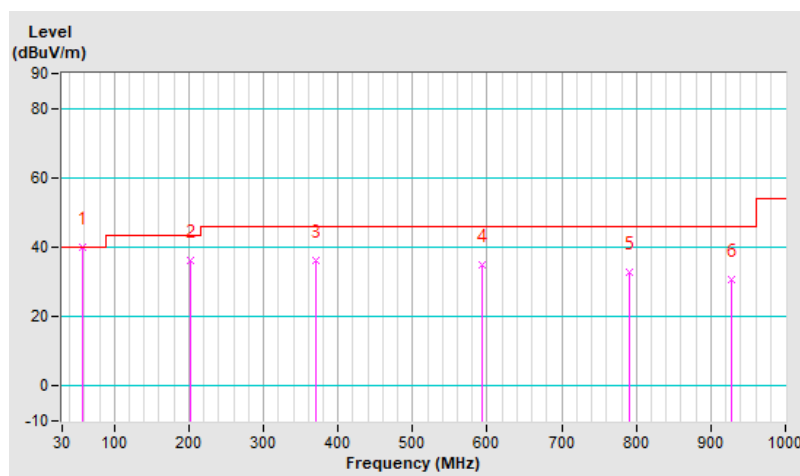


| | | | |
|------------------------|----------------|--|-------------------------------|
| RF Mode | 802.11b | Channel | CH 6 : 2437 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | QP: RB=120kHz, DET=Quasi-Peak |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 21°C, 69% RH |
| Tested By | Karl Lee | | |

| 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 | 57.16 | 39.9 QP | 40.0 | -0.1 | 1.00 V | 63 | 52.9 | -13.0 |
| 2 | 201.69 | 36.2 QP | 43.5 | -7.3 | 1.50 V | 240 | 52.0 | -15.8 |
| 3 | 370.47 | 36.2 QP | 46.0 | -9.8 | 1.00 V | 274 | 46.6 | -10.4 |
| 4 | 592.60 | 34.8 QP | 46.0 | -11.2 | 1.00 V | 5 | 40.1 | -5.3 |
| 5 | 791.45 | 32.7 QP | 46.0 | -13.3 | 2.00 V | 357 | 33.7 | -1.0 |
| 6 | 927.25 | 30.7 QP | 46.0 | -15.3 | 1.50 V | 262 | 31.1 | -0.4 |

Remarks:

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



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=1 kHz, DET=Peak |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Karl Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2390.00 | 62.1 PK | 74.0 | -11.9 | 1.09 H | 86 | 24.5 | 37.6 |
| 2 | 2390.00 | 52.6 AV | 54.0 | -1.4 | 1.09 H | 86 | 15.0 | 37.6 |
| 3 | *2412.00 | 119.0 PK | | | 1.09 H | 86 | 81.4 | 37.6 |
| 4 | *2412.00 | 113.8 AV | | | 1.09 H | 86 | 76.2 | 37.6 |
| 5 | 4824.00 | 49.6 PK | 74.0 | -24.4 | 1.53 H | 292 | 37.5 | 12.1 |
| 6 | 4824.00 | 41.9 AV | 54.0 | -12.1 | 1.53 H | 292 | 29.8 | 12.1 |
| 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 | 60.3 PK | 74.0 | -13.7 | 3.20 V | 3 | 22.7 | 37.6 |
| 2 | 2390.00 | 50.4 AV | 54.0 | -3.6 | 3.20 V | 3 | 12.8 | 37.6 |
| 3 | *2412.00 | 115.0 PK | | | 3.20 V | 3 | 77.4 | 37.6 |
| 4 | *2412.00 | 109.8 AV | | | 3.20 V | 3 | 72.2 | 37.6 |
| 5 | 4824.00 | 49.3 PK | 74.0 | -24.7 | 1.62 V | 29 | 37.2 | 12.1 |
| 6 | 4824.00 | 41.7 AV | 54.0 | -12.3 | 1.62 V | 29 | 29.6 | 12.1 |

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 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=1 kHz, DET=Peak |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Karl Lee | | |

| 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 | 58.8 PK | 74.0 | -15.2 | 1.00 H | 89 | 21.2 | 37.6 |
| 2 | 2390.00 | 49.2 AV | 54.0 | -4.8 | 1.00 H | 89 | 11.6 | 37.6 |
| 3 | *2437.00 | 121.5 PK | | | 1.00 H | 89 | 83.7 | 37.8 |
| 4 | *2437.00 | 116.0 AV | | | 1.00 H | 89 | 78.2 | 37.8 |
| 5 | 2483.50 | 59.3 PK | 74.0 | -14.7 | 1.00 H | 89 | 21.3 | 38.0 |
| 6 | 2483.50 | 49.7 AV | 54.0 | -4.3 | 1.00 H | 89 | 11.7 | 38.0 |
| 7 | 4874.00 | 49.5 PK | 74.0 | -24.5 | 1.92 H | 101 | 37.2 | 12.3 |
| 8 | 4874.00 | 41.9 AV | 54.0 | -12.1 | 1.92 H | 101 | 29.6 | 12.3 |
| 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 | 58.8 PK | 74.0 | -15.2 | 2.94 V | 17 | 21.2 | 37.6 |
| 2 | 2390.00 | 48.5 AV | 54.0 | -5.5 | 2.94 V | 17 | 10.9 | 37.6 |
| 3 | *2437.00 | 117.7 PK | | | 2.94 V | 17 | 79.9 | 37.8 |
| 4 | *2437.00 | 112.1 AV | | | 2.94 V | 17 | 74.3 | 37.8 |
| 5 | 2483.50 | 59.5 PK | 74.0 | -14.5 | 2.94 V | 17 | 21.5 | 38.0 |
| 6 | 2483.50 | 49.4 AV | 54.0 | -4.6 | 2.94 V | 17 | 11.4 | 38.0 |
| 7 | 4874.00 | 49.2 PK | 74.0 | -24.8 | 1.20 V | 271 | 36.9 | 12.3 |
| 8 | 4874.00 | 41.5 AV | 54.0 | -12.5 | 1.20 V | 271 | 29.2 | 12.3 |

Remarks:

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



| | | | |
|------------------------|----------------|--|--|
| RF Mode | 802.11b | 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=1 kHz, DET=Peak |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Karl Lee | | |

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 | 117.9 PK | | | 1.10 H | 86 | 79.9 | 38.0 |
| 2 | *2462.00 | 112.5 AV | | | 1.10 H | 86 | 74.5 | 38.0 |
| 3 | 2483.50 | 62.1 PK | 74.0 | -11.9 | 1.10 H | 86 | 24.1 | 38.0 |
| 4 | 2483.50 | 52.7 AV | 54.0 | -1.3 | 1.10 H | 86 | 14.7 | 38.0 |
| 5 | 4924.00 | 49.8 PK | 74.0 | -24.2 | 1.15 H | 216 | 37.4 | 12.4 |
| 6 | 4924.00 | 42.0 AV | 54.0 | -12.0 | 1.15 H | 216 | 29.6 | 12.4 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *2462.00 | 113.8 PK | | | 2.96 V | 26 | 75.8 | 38.0 |
| 2 | *2462.00 | 108.4 AV | | | 2.96 V | 26 | 70.4 | 38.0 |
| 3 | 2483.50 | 59.9 PK | 74.0 | -14.1 | 2.96 V | 26 | 21.9 | 38.0 |
| 4 | 2483.50 | 50.3 AV | 54.0 | -3.7 | 2.96 V | 26 | 12.3 | 38.0 |
| 5 | 4924.00 | 49.5 PK | 74.0 | -24.5 | 2.82 V | 157 | 37.1 | 12.4 |
| 6 | 4924.00 | 41.9 AV | 54.0 | -12.1 | 2.82 V | 157 | 29.5 | 12.4 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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=1 kHz, DET=Peak |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Karl Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2390.00 | 62.5 PK | 74.0 | -11.5 | 1.09 H | 86 | 24.9 | 37.6 |
| 2 | 2390.00 | 52.6 AV | 54.0 | -1.4 | 1.09 H | 86 | 15.0 | 37.6 |
| 3 | *2412.00 | 114.8 PK | | | 1.09 H | 86 | 77.2 | 37.6 |
| 4 | *2412.00 | 107.9 AV | | | 1.09 H | 86 | 70.3 | 37.6 |
| 5 | 4824.00 | 49.3 PK | 74.0 | -24.7 | 2.36 H | 82 | 37.2 | 12.1 |
| 6 | 4824.00 | 41.6 AV | 54.0 | -12.4 | 2.36 H | 82 | 29.5 | 12.1 |
| 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 | 59.1 PK | 74.0 | -14.9 | 3.20 V | 3 | 21.5 | 37.6 |
| 2 | 2390.00 | 48.1 AV | 54.0 | -5.9 | 3.20 V | 3 | 10.5 | 37.6 |
| 3 | *2412.00 | 110.1 PK | | | 3.20 V | 3 | 72.5 | 37.6 |
| 4 | *2412.00 | 103.1 AV | | | 3.20 V | 3 | 65.5 | 37.6 |
| 5 | 4824.00 | 48.8 PK | 74.0 | -25.2 | 2.11 V | 49 | 36.7 | 12.1 |
| 6 | 4824.00 | 41.1 AV | 54.0 | -12.9 | 2.11 V | 49 | 29.0 | 12.1 |

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 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=1 kHz, DET=Peak |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Karl Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2390.00 | 57.4 PK | 74.0 | -16.6 | 1.00 H | 89 | 19.8 | 37.6 |
| 2 | 2390.00 | 47.7 AV | 54.0 | -6.3 | 1.00 H | 89 | 10.1 | 37.6 |
| 3 | *2437.00 | 113.7 PK | | | 1.00 H | 89 | 75.9 | 37.8 |
| 4 | *2437.00 | 106.8 AV | | | 1.00 H | 89 | 69.0 | 37.8 |
| 5 | 2483.50 | 61.6 PK | 74.0 | -12.4 | 1.00 H | 89 | 23.6 | 38.0 |
| 6 | 2483.50 | 50.3 AV | 54.0 | -3.7 | 1.00 H | 89 | 12.3 | 38.0 |
| 7 | 4874.00 | 49.7 PK | 74.0 | -24.3 | 1.87 H | 155 | 37.4 | 12.3 |
| 8 | 4874.00 | 42.1 AV | 54.0 | -11.9 | 1.87 H | 155 | 29.8 | 12.3 |
| 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 | 53.4 PK | 74.0 | -20.6 | 2.94 V | 17 | 15.8 | 37.6 |
| 2 | 2390.00 | 46.2 AV | 54.0 | -7.8 | 2.94 V | 17 | 8.6 | 37.6 |
| 3 | *2437.00 | 109.4 PK | | | 2.94 V | 17 | 71.6 | 37.8 |
| 4 | *2437.00 | 102.2 AV | | | 2.94 V | 17 | 64.4 | 37.8 |
| 5 | 2483.50 | 55.9 PK | 74.0 | -18.1 | 2.94 V | 17 | 17.9 | 38.0 |
| 6 | 2483.50 | 48.3 AV | 54.0 | -5.7 | 2.94 V | 17 | 10.3 | 38.0 |
| 7 | 4874.00 | 49.2 PK | 74.0 | -24.8 | 2.31 V | 184 | 36.9 | 12.3 |
| 8 | 4874.00 | 41.6 AV | 54.0 | -12.4 | 2.31 V | 184 | 29.3 | 12.3 |

Remarks:

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



| | | | |
|------------------------|----------------|--|--|
| RF Mode | 802.11g | 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=1 kHz, DET=Peak |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Karl Lee | | |

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 | 111.8 PK | | | 1.10 H | 86 | 73.8 | 38.0 |
| 2 | *2462.00 | 104.7 AV | | | 1.10 H | 86 | 66.7 | 38.0 |
| 3 | 2483.50 | 63.3 PK | 74.0 | -10.7 | 1.10 H | 86 | 25.3 | 38.0 |
| 4 | 2483.50 | 52.9 AV | 54.0 | -1.1 | 1.10 H | 86 | 14.9 | 38.0 |
| 5 | 4924.00 | 49.0 PK | 74.0 | -25.0 | 1.15 H | 229 | 36.6 | 12.4 |
| 6 | 4924.00 | 41.2 AV | 54.0 | -12.8 | 1.15 H | 229 | 28.8 | 12.4 |

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 | 108.0 PK | | | 2.96 V | 26 | 70.0 | 38.0 |
| 2 | *2462.00 | 100.5 AV | | | 2.96 V | 26 | 62.5 | 38.0 |
| 3 | 2483.50 | 60.8 PK | 74.0 | -13.2 | 2.96 V | 26 | 22.8 | 38.0 |
| 4 | 2483.50 | 50.8 AV | 54.0 | -3.2 | 2.96 V | 26 | 12.8 | 38.0 |
| 5 | 4924.00 | 49.4 PK | 74.0 | -24.6 | 1.53 V | 314 | 37.0 | 12.4 |
| 6 | 4924.00 | 41.7 AV | 54.0 | -12.3 | 1.53 V | 314 | 29.3 | 12.4 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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=1 kHz, DET=Peak |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Karl Lee | | |

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 | 63.8 PK | 74.0 | -10.2 | 1.09 H | 86 | 26.2 | 37.6 |
| 2 | 2390.00 | 53.0 AV | 54.0 | -1.0 | 1.09 H | 86 | 15.4 | 37.6 |
| 3 | *2412.00 | 114.7 PK | | | 1.09 H | 86 | 77.1 | 37.6 |
| 4 | *2412.00 | 103.6 AV | | | 1.09 H | 86 | 66.0 | 37.6 |
| 5 | 4824.00 | 49.6 PK | 74.0 | -24.4 | 1.71 H | 214 | 37.5 | 12.1 |
| 6 | 4824.00 | 42.0 AV | 54.0 | -12.0 | 1.71 H | 214 | 29.9 | 12.1 |

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 | 62.6 PK | 74.0 | -11.4 | 3.20 V | 3 | 25.0 | 37.6 |
| 2 | 2390.00 | 51.1 AV | 54.0 | -2.9 | 3.20 V | 3 | 13.5 | 37.6 |
| 3 | *2412.00 | 110.2 PK | | | 3.20 V | 3 | 72.6 | 37.6 |
| 4 | *2412.00 | 99.1 AV | | | 3.20 V | 3 | 61.5 | 37.6 |
| 5 | 4824.00 | 49.2 PK | 74.0 | -24.8 | 2.28 V | 163 | 37.1 | 12.1 |
| 6 | 4824.00 | 41.4 AV | 54.0 | -12.6 | 2.28 V | 163 | 29.3 | 12.1 |

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 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=1 kHz, DET=Peak |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Karl Lee | | |

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 | 63.9 PK | 74.0 | -10.1 | 1.00 H | 89 | 26.3 | 37.6 |
| 2 | 2390.00 | 51.0 AV | 54.0 | -3.0 | 1.00 H | 89 | 13.4 | 37.6 |
| 3 | *2437.00 | 118.5 PK | | | 1.00 H | 89 | 80.7 | 37.8 |
| 4 | *2437.00 | 107.5 AV | | | 1.00 H | 89 | 69.7 | 37.8 |
| 5 | 2483.50 | 65.0 PK | 74.0 | -9.0 | 1.00 H | 89 | 27.0 | 38.0 |
| 6 | 2483.50 | 52.0 AV | 54.0 | -2.0 | 1.00 H | 89 | 14.0 | 38.0 |
| 7 | 4874.00 | 49.0 PK | 74.0 | -25.0 | 2.34 H | 128 | 36.7 | 12.3 |
| 8 | 4874.00 | 41.4 AV | 54.0 | -12.6 | 2.34 H | 128 | 29.1 | 12.3 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 2390.00 | 58.3 PK | 74.0 | -15.7 | 2.94 V | 17 | 20.7 | 37.6 |
| 2 | 2390.00 | 47.2 AV | 54.0 | -6.8 | 2.94 V | 17 | 9.6 | 37.6 |
| 3 | *2437.00 | 114.4 PK | | | 2.94 V | 17 | 76.6 | 37.8 |
| 4 | *2437.00 | 103.1 AV | | | 2.94 V | 17 | 65.3 | 37.8 |
| 5 | 2483.50 | 58.7 PK | 74.0 | -15.3 | 2.94 V | 17 | 20.7 | 38.0 |
| 6 | 2483.50 | 47.8 AV | 54.0 | -6.2 | 2.94 V | 17 | 9.8 | 38.0 |
| 7 | 4874.00 | 49.2 PK | 74.0 | -24.8 | 2.26 V | 62 | 36.9 | 12.3 |
| 8 | 4874.00 | 41.6 AV | 54.0 | -12.4 | 2.26 V | 62 | 29.3 | 12.3 |

Remarks:

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



| | | | |
|------------------------|-----------------|--|--|
| RF Mode | 802.11ax (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=1 kHz, DET=Peak |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Karl Lee | | |

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 | 117.3 PK | | | 1.10 H | 86 | 79.3 | 38.0 |
| 2 | *2462.00 | 106.1 AV | | | 1.10 H | 86 | 68.1 | 38.0 |
| 3 | 2483.50 | 62.9 PK | 74.0 | -11.1 | 1.10 H | 86 | 24.9 | 38.0 |
| 4 | 2483.50 | 52.6 AV | 54.0 | -1.4 | 1.10 H | 86 | 14.6 | 38.0 |
| 5 | 4924.00 | 49.7 PK | 74.0 | -24.3 | 2.25 H | 71 | 37.3 | 12.4 |
| 6 | 4924.00 | 42.0 AV | 54.0 | -12.0 | 2.25 H | 71 | 29.6 | 12.4 |

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 | 112.9 PK | | | 2.96 V | 26 | 74.9 | 38.0 |
| 2 | *2462.00 | 101.6 AV | | | 2.96 V | 26 | 63.6 | 38.0 |
| 3 | 2483.50 | 60.2 PK | 74.0 | -13.8 | 2.96 V | 26 | 22.2 | 38.0 |
| 4 | 2483.50 | 48.8 AV | 54.0 | -5.2 | 2.96 V | 26 | 10.8 | 38.0 |
| 5 | 4924.00 | 49.0 PK | 74.0 | -25.0 | 1.19 V | 312 | 36.6 | 12.4 |
| 6 | 4924.00 | 41.4 AV | 54.0 | -12.6 | 1.19 V | 312 | 29.0 | 12.4 |

Remarks:

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



| | | | |
|------------------------|-----------------|--|--|
| RF Mode | 802.11ax (HE40) | Channel | CH 3 : 2422 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Karl Lee | | |

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 | 63.7 PK | 74.0 | -10.3 | 1.12 H | 86 | 56.9 | 6.8 |
| 2 | 2390.00 | 52.5 AV | 54.0 | -1.5 | 1.12 H | 86 | 45.7 | 6.8 |
| 3 | *2422.00 | 112.7 PK | | | 1.12 H | 86 | 75.0 | 37.7 |
| 4 | *2422.00 | 101.5 AV | | | 1.12 H | 86 | 63.8 | 37.7 |
| 5 | 2483.50 | 57.5 PK | 74.0 | -16.5 | 1.12 H | 86 | 50.2 | 7.3 |
| 6 | 2483.50 | 46.8 AV | 54.0 | -7.2 | 1.12 H | 86 | 39.5 | 7.3 |
| 7 | 4844.00 | 49.5 PK | 74.0 | -24.5 | 1.88 H | 234 | 37.2 | 12.3 |
| 8 | 4844.00 | 41.8 AV | 54.0 | -12.2 | 1.88 H | 234 | 29.5 | 12.3 |

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 | 61.8 PK | 74.0 | -12.2 | 3.11 V | 7 | 55.0 | 6.8 |
| 2 | 2390.00 | 50.9 AV | 54.0 | -3.1 | 3.11 V | 7 | 44.1 | 6.8 |
| 3 | *2422.00 | 108.1 PK | | | 3.11 V | 7 | 70.4 | 37.7 |
| 4 | *2422.00 | 97.1 AV | | | 3.11 V | 7 | 59.4 | 37.7 |
| 5 | 2483.50 | 50.5 PK | 74.0 | -23.5 | 3.11 V | 7 | 43.2 | 7.3 |
| 6 | 2483.50 | 46.6 AV | 54.0 | -7.4 | 3.11 V | 7 | 39.3 | 7.3 |
| 7 | 4844.00 | 49.1 PK | 74.0 | -24.9 | 2.30 V | 172 | 36.8 | 12.3 |
| 8 | 4844.00 | 41.4 AV | 54.0 | -12.6 | 2.30 V | 172 | 29.1 | 12.3 |

Remarks:

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



| | | | |
|------------------------|-----------------|--|--|
| RF Mode | 802.11ax (HE40) | Channel | CH 6 : 2437 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Karl Lee | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 2390.00 | 62.2 PK | 74.0 | -11.8 | 1.00 H | 83 | 24.6 | 37.6 |
| 2 | 2390.00 | 50.8 AV | 54.0 | -3.2 | 1.00 H | 83 | 13.2 | 37.6 |
| 3 | *2437.00 | 114.5 PK | | | 1.00 H | 83 | 76.7 | 37.8 |
| 4 | *2437.00 | 104.3 AV | | | 1.00 H | 83 | 66.5 | 37.8 |
| 5 | 2483.50 | 63.4 PK | 74.0 | -10.6 | 1.00 H | 83 | 25.4 | 38.0 |
| 6 | 2483.50 | 52.2 AV | 54.0 | -1.8 | 1.00 H | 83 | 14.2 | 38.0 |
| 7 | 4874.00 | 49.7 PK | 74.0 | -24.3 | 2.55 H | 109 | 37.4 | 12.3 |
| 8 | 4874.00 | 42.0 AV | 54.0 | -12.0 | 2.55 H | 109 | 29.7 | 12.3 |

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 | 58.5 PK | 74.0 | -15.5 | 2.94 V | 16 | 20.9 | 37.6 |
| 2 | 2390.00 | 48.3 AV | 54.0 | -5.7 | 2.94 V | 16 | 10.7 | 37.6 |
| 3 | *2437.00 | 110.7 PK | | | 2.94 V | 16 | 72.9 | 37.8 |
| 4 | *2437.00 | 100.2 AV | | | 2.94 V | 16 | 62.4 | 37.8 |
| 5 | 2483.50 | 62.7 PK | 74.0 | -11.3 | 2.94 V | 16 | 24.7 | 38.0 |
| 6 | 2483.50 | 50.1 AV | 54.0 | -3.9 | 2.94 V | 16 | 12.1 | 38.0 |
| 7 | 4874.00 | 49.3 PK | 74.0 | -24.7 | 2.51 V | 166 | 37.0 | 12.3 |
| 8 | 4874.00 | 41.6 AV | 54.0 | -12.4 | 2.51 V | 166 | 29.3 | 12.3 |

Remarks:

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



| | | | |
|------------------------|-----------------|--|--|
| RF Mode | 802.11ax (HE40) | Channel | CH 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=1 kHz, DET=Peak |
| Input Power | 240 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Karl Lee | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 2390.00 | 57.2 PK | 74.0 | -16.8 | 1.07 H | 82 | 19.6 | 37.6 |
| 2 | 2390.00 | 49.0 AV | 54.0 | -5.0 | 1.07 H | 82 | 11.4 | 37.6 |
| 3 | *2452.00 | 111.0 PK | | | 1.07 H | 82 | 73.1 | 37.9 |
| 4 | *2452.00 | 100.7 AV | | | 1.07 H | 82 | 62.8 | 37.9 |
| 5 | 2483.50 | 61.4 PK | 74.0 | -12.6 | 1.07 H | 82 | 23.4 | 38.0 |
| 6 | 2483.50 | 52.2 AV | 54.0 | -1.8 | 1.07 H | 82 | 14.2 | 38.0 |
| 7 | 4904.00 | 49.5 PK | 74.0 | -24.5 | 1.67 H | 251 | 37.2 | 12.3 |
| 8 | 4904.00 | 41.8 AV | 54.0 | -12.2 | 1.67 H | 251 | 29.5 | 12.3 |

Antenna Polarity & Test Distance : Vertical at 3 m

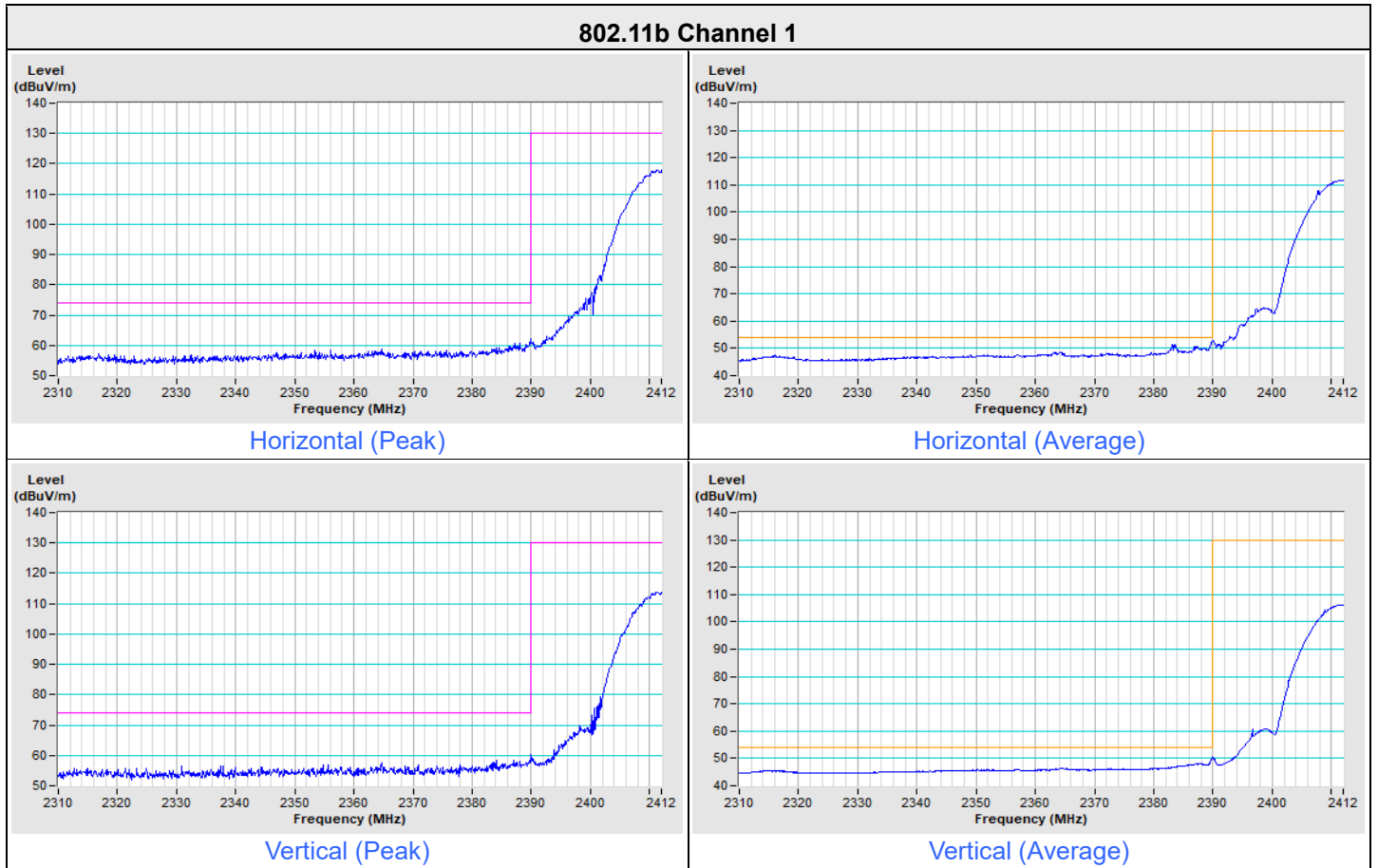
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 2390.00 | 58.1 PK | 74.0 | -15.9 | 2.88 V | 25 | 51.3 | 6.8 |
| 2 | 2390.00 | 46.8 AV | 54.0 | -7.2 | 2.88 V | 25 | 40.0 | 6.8 |
| 3 | *2452.00 | 107.0 PK | | | 2.88 V | 25 | 69.1 | 37.9 |
| 4 | *2452.00 | 96.4 AV | | | 2.88 V | 25 | 58.5 | 37.9 |
| 5 | 2483.50 | 59.6 PK | 74.0 | -14.4 | 2.88 V | 25 | 52.3 | 7.3 |
| 6 | 2483.50 | 48.9 AV | 54.0 | -5.1 | 2.88 V | 25 | 41.6 | 7.3 |
| 7 | 4904.00 | 49.0 PK | 74.0 | -25.0 | 2.92 V | 146 | 36.7 | 12.3 |
| 8 | 4904.00 | 41.2 AV | 54.0 | -12.8 | 2.92 V | 146 | 28.9 | 12.3 |

Remarks:

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

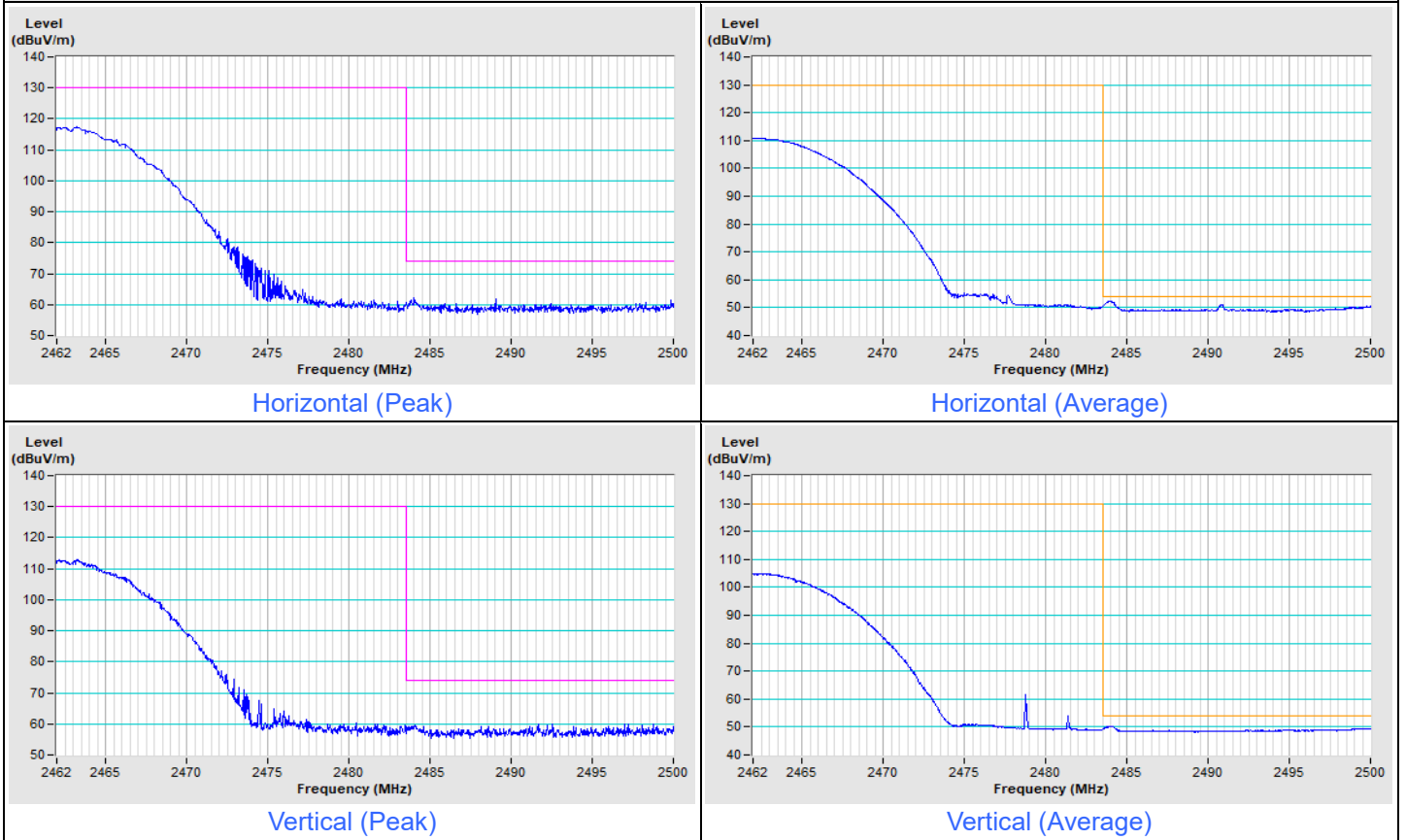
Plot of Band Edge

| | | | |
|-----------------|----------------------|-------------------------------|--|
| Frequency Range | 2.31 GHz ~ 2.412 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak |
|-----------------|----------------------|-------------------------------|--|



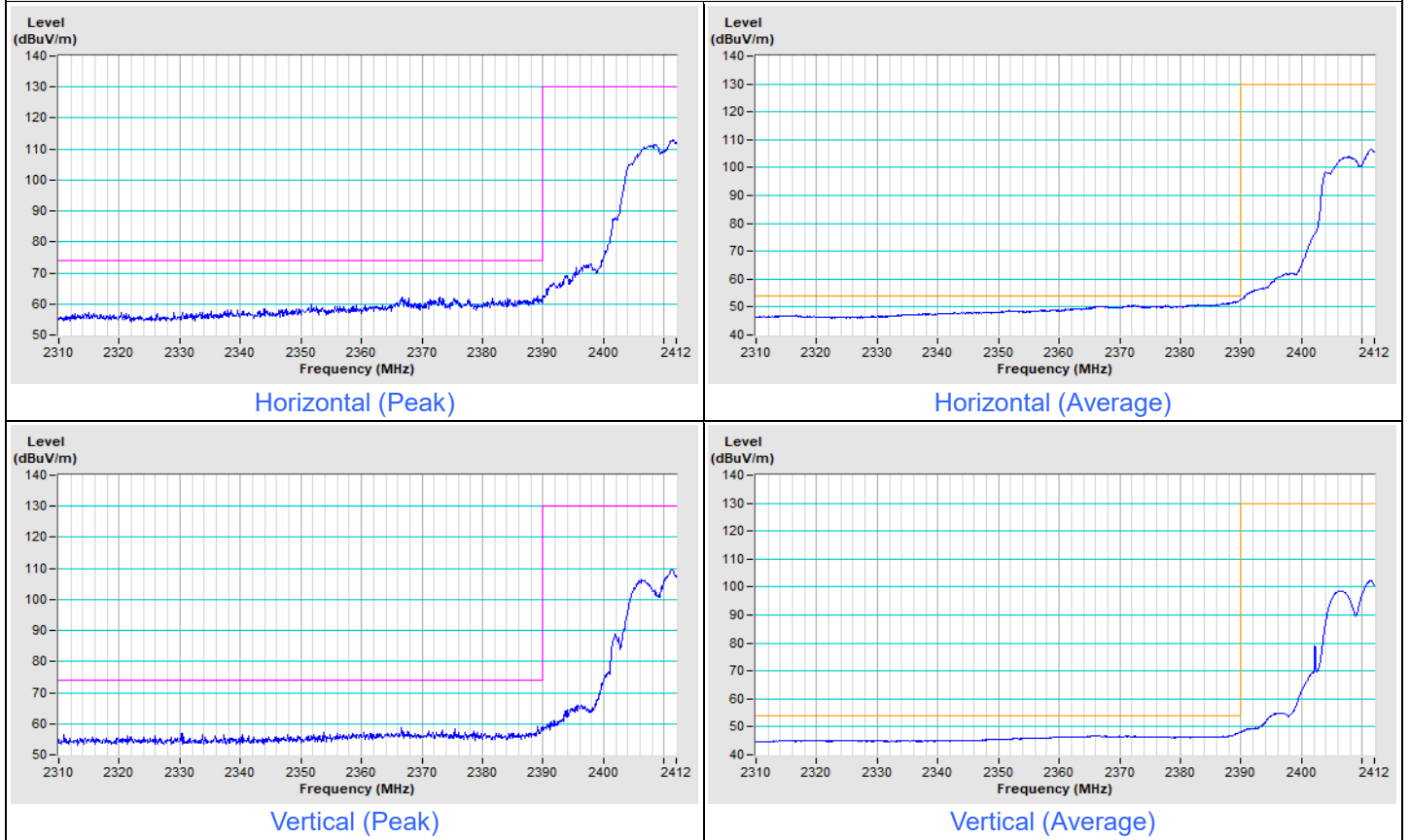
| | | | |
|-----------------|---------------------|-------------------------------|--|
| Frequency Range | 2.462 GHz ~ 2.5 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak |
|-----------------|---------------------|-------------------------------|--|

802.11b Channel 11



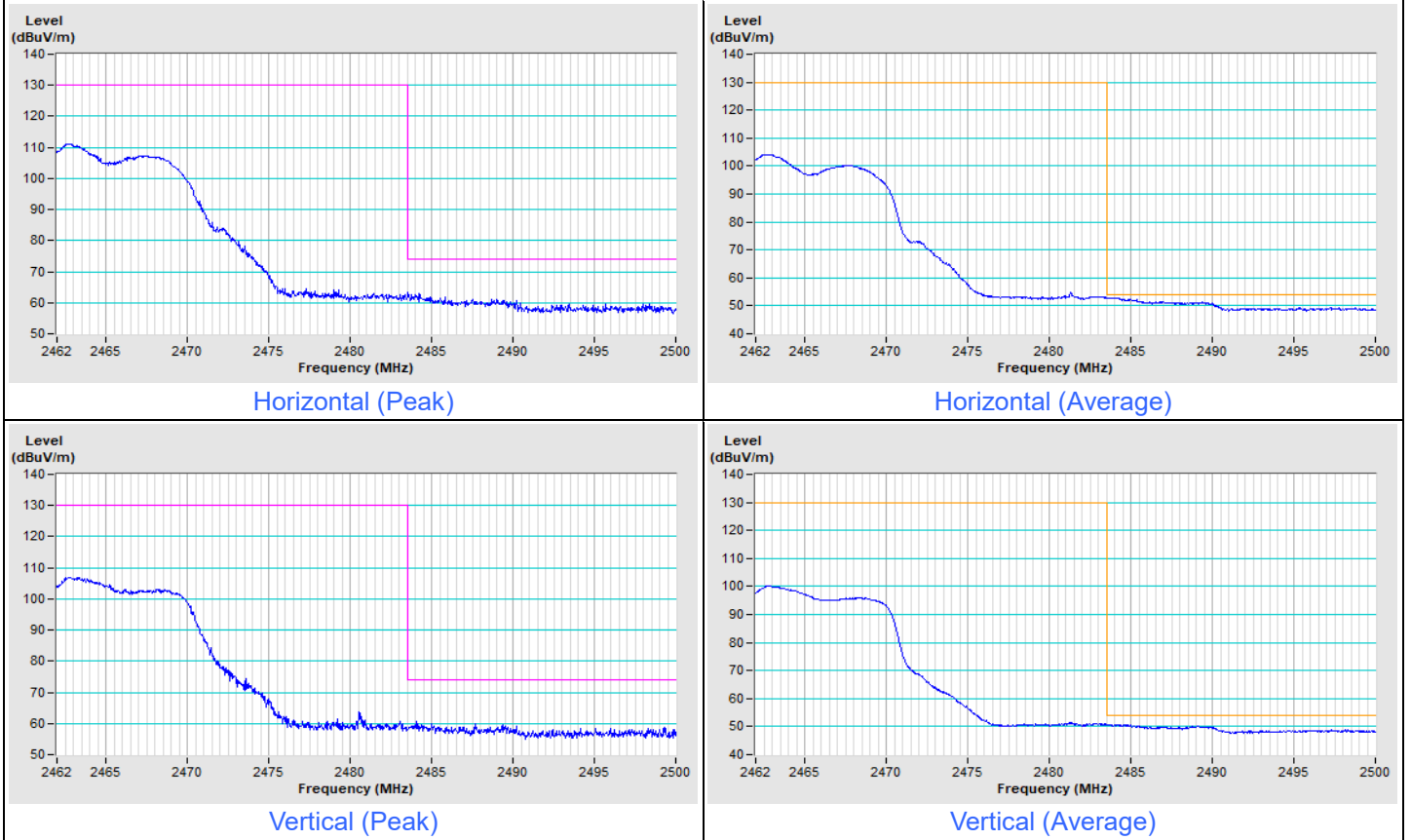
| | | | |
|-----------------|----------------------|-------------------------------|--|
| Frequency Range | 2.31 GHz ~ 2.412 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak |
|-----------------|----------------------|-------------------------------|--|

802.11g Channel 1



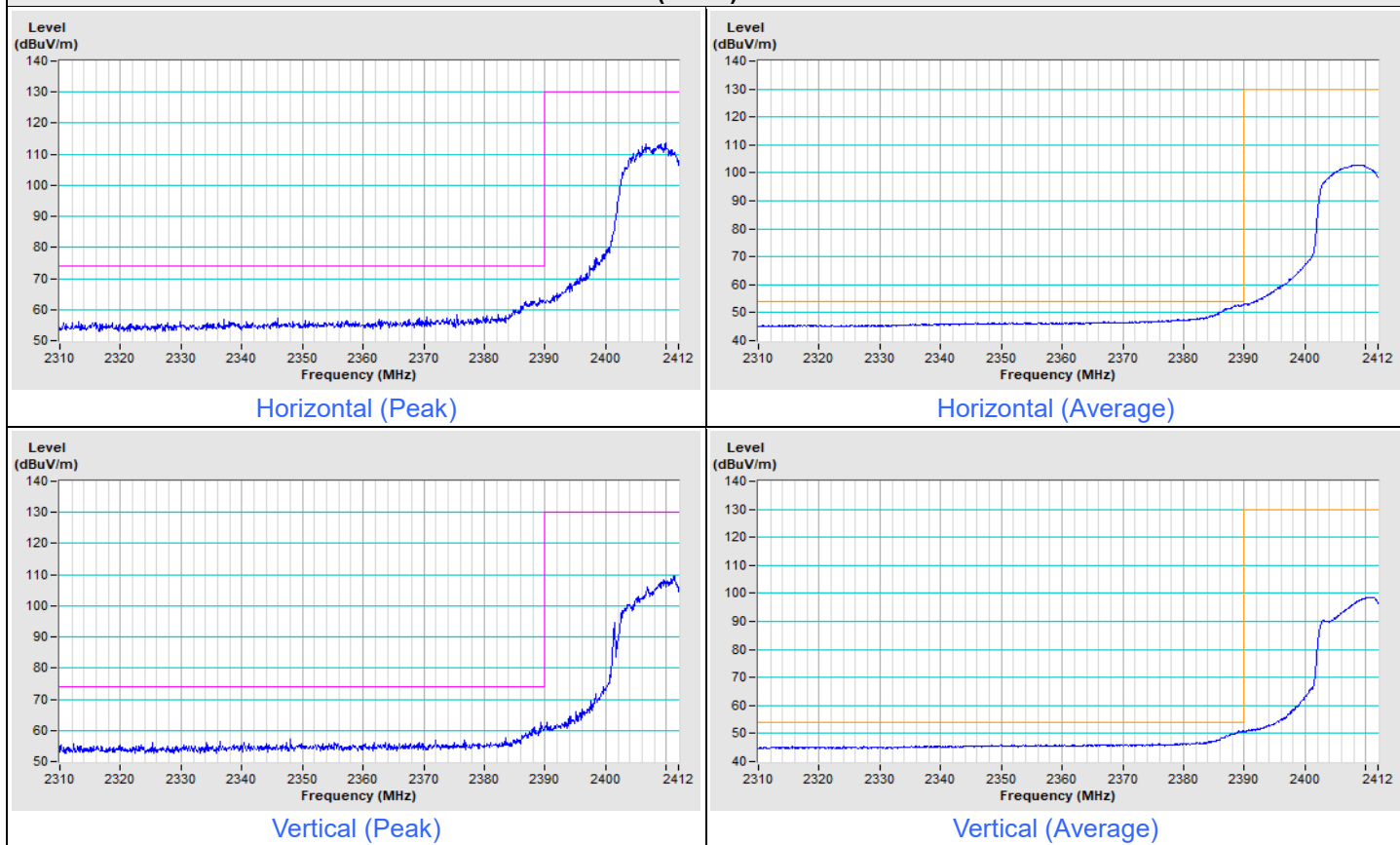
| | | | |
|-----------------|---------------------|-------------------------------|--|
| Frequency Range | 2.462 GHz ~ 2.5 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak |
|-----------------|---------------------|-------------------------------|--|

802.11g Channel 11



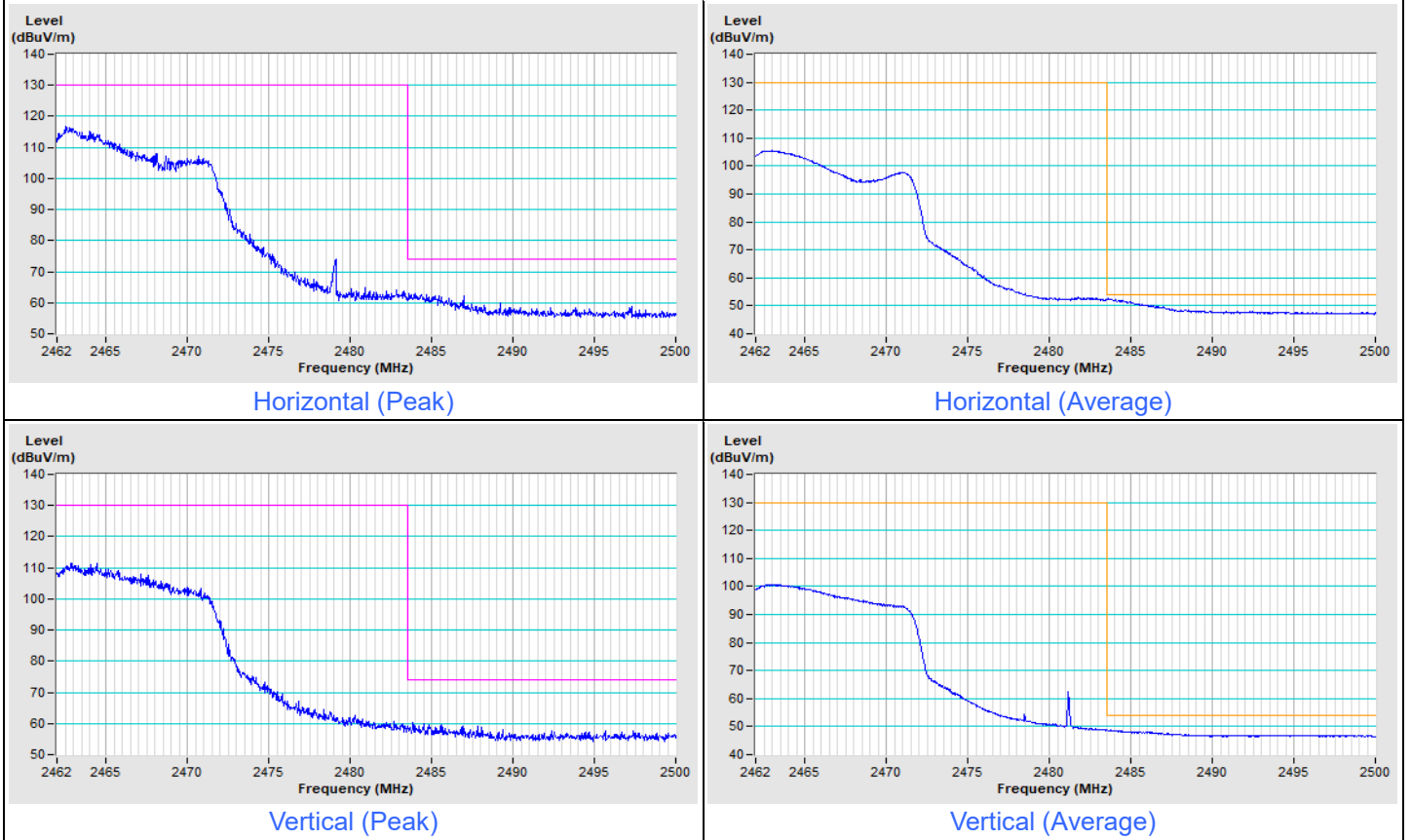
| | | | |
|-----------------|----------------------|-------------------------------|--|
| Frequency Range | 2.31 GHz ~ 2.412 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak |
|-----------------|----------------------|-------------------------------|--|

802.11ax (HE20) Channel 1



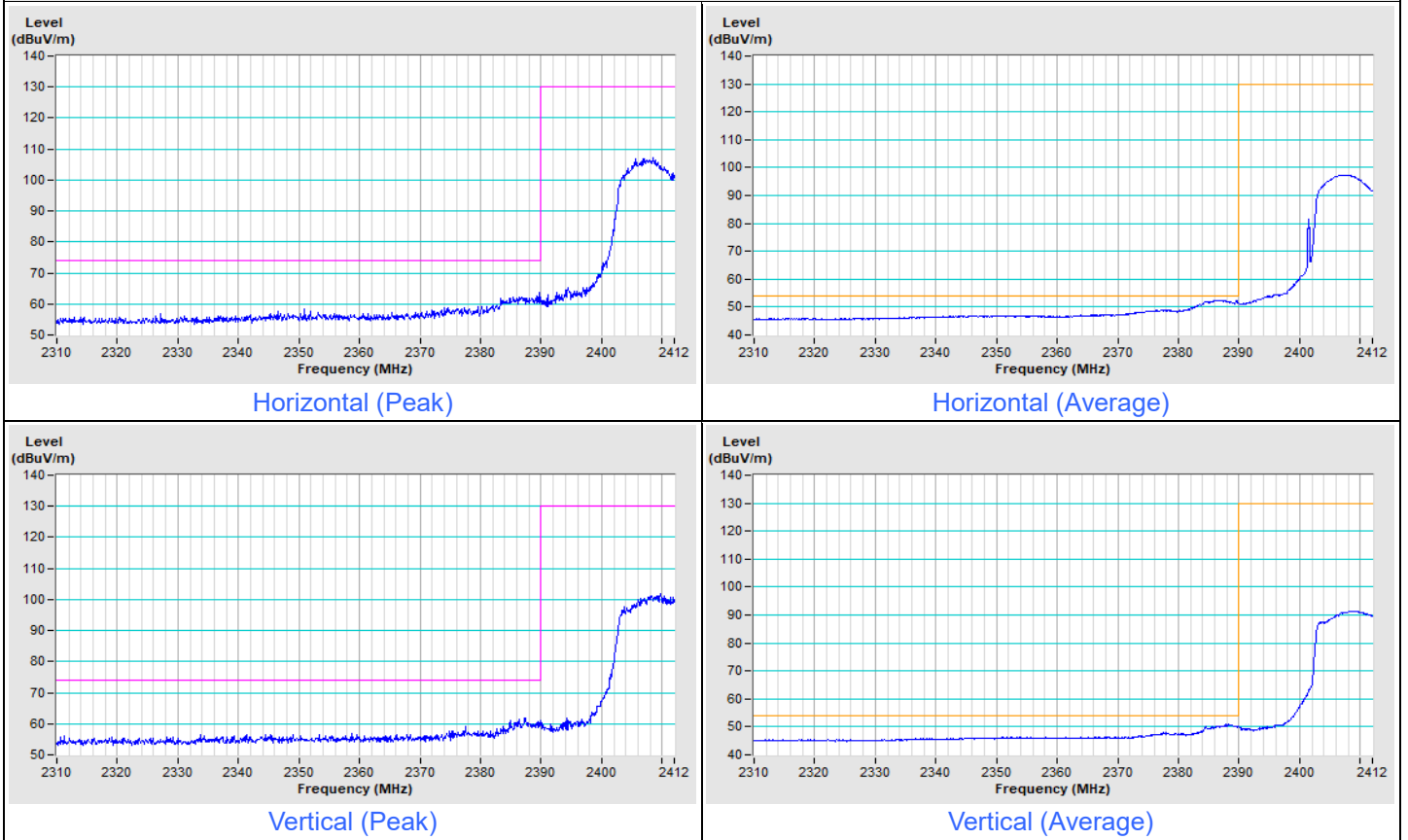
| | | | |
|-----------------|---------------------|-------------------------------|--|
| Frequency Range | 2.462 GHz ~ 2.5 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak |
|-----------------|---------------------|-------------------------------|--|

802.11ax (HE20) Channel 11



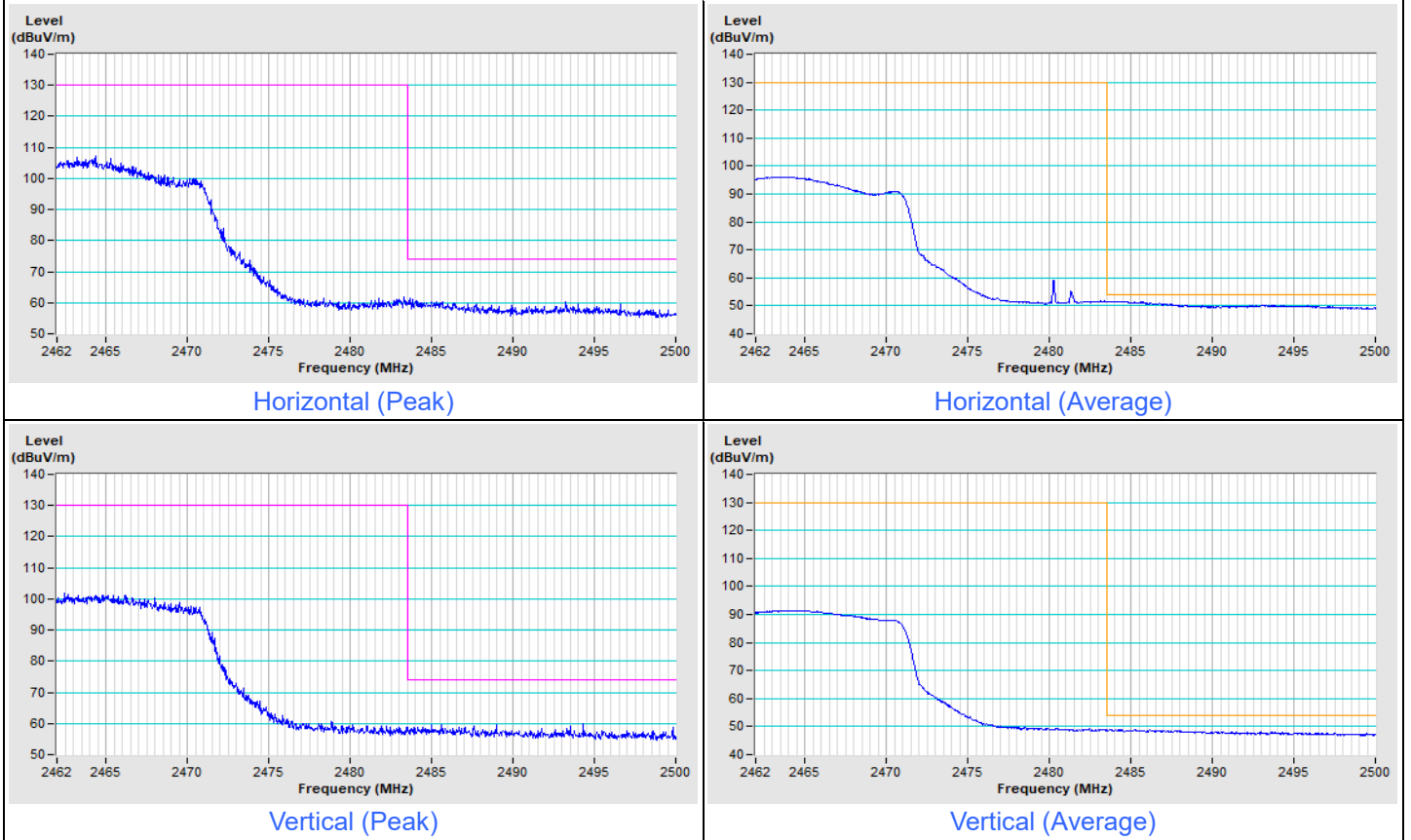
| | | | |
|-----------------|----------------------|-------------------------------|--|
| Frequency Range | 2.31 GHz ~ 2.412 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak |
|-----------------|----------------------|-------------------------------|--|

802.11ax (HE40) Channel 3



| | | | |
|-----------------|---------------------|-------------------------------|--|
| Frequency Range | 2.462 GHz ~ 2.5 GHz | Detector Function & Bandwidth | PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak |
|-----------------|---------------------|-------------------------------|--|

802.11ax (HE40) Channel 9



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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