

FCC TEST REPORT

(Part 15, Subpart C)

| | |
|------------|---|
| Applicant: | Xiaomi Communications Co., Ltd. |
| Address: | #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085 |

| | |
|---------------------------|---|
| Manufacturer or Supplier: | Xiaomi Communications Co., Ltd. |
| Address: | #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085 |
| Product: | Tablet Computer |
| Brand Name: | POCO |
| Model Name: | 2509ARBDG |
| FCC ID: | 2AFZZRPBDG |
| Date of tests: | Jul. 28, 2025 ~ Jul. 31, 2025 |

The tests have been carried out according to the requirements of the following standard:

- FCC Part 15, Subpart C, Section 15.247
- ANSI C63.10-2020

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

| | |
|---|--|
| Prepared by Hanwen Xu Engineer / Mobile Department | Approved by Peibo Sun Manager / Mobile Department |
|  |  |
| Date: Jul. 31, 2025 | Date: Jul. 31, 2025 |

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TABLE OF CONTENTS

RELEASE CONTROL RECORD 6

1. SUMMARY OF TEST RESULTS..... 7

1.1 MEASUREMENT UNCERTAINTY 8

2 GENERAL INFORMATION 9

2.2 GENERAL DESCRIPTION OF EUT 9

2.3 DESCRIPTION OF TEST MODES11

2.2.1 CONFIGURATION OF SYSTEM UNDER TEST 12

2.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL..... 12

2.4 DUTY CYCLE OF TEST SIGNAL 16

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS 16

2.6 DESCRIPTION OF SUPPORT UNITS 17

3 TEST TYPES AND RESULTS..... 18

3.1 CONDUCTED EMISSION MEASUREMENT 18

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT 18

3.1.2 TEST INSTRUMENTS..... 19

3.1.3 TEST PROCEDURES 20

3.1.4 DEVIATION FROM TEST STANDARD 20

3.1.5 TEST SETUP 21

3.1.6 EUT OPERATING CONDITIONS 21

3.1.7 TEST RESULTS 22

3.2 RADIATED EMISSION MEASUREMENT 24

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT 24

3.2.2 TEST INSTRUMENTS..... 25

3.2.3 TEST PROCEDURES 27

3.2.4 DEVIATION FROM TEST STANDARD 27

3.2.5 TEST SETUP 28

3.2.6 EUT OPERATING CONDITIONS 29

3.2.7 TEST RESULTS 30

3.3 6 DB BANDWIDTH MEASUREMENT 224

3.3.1 LIMITS OF 6DB BANDWIDTH MEASUREMENT 224

3.3.2 TEST INSTRUMENTS..... 224

3.3.3 TEST PROCEDURE 225

3.3.4 DEVIATION FROM TEST STANDARD 226

3.3.5 TEST SETUP 226

3.3.6 EUT OPERATING CONDITIONS 226

3.3.7 TEST RESULTS 226

3.4 CONDUCTED OUTPUT POWER 227



3.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT 227

3.4.2 TEST SETUP 227

3.4.3 TEST INSTRUMENTS..... 227

3.4.4 TEST PROCEDURES 227

3.4.5 DEVIATION FROM TEST STANDARD 227

3.4.6 EUT OPERATING CONDITIONS 227

3.4.7 TEST RESULTS 228

3.4.7.1 MAXIMUM PEAK OUTPUT POWER 228

3.4.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)..... 229

3.5 POWER SPECTRAL DENSITY MEASUREMENT 230

3.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT 230

3.5.2 TEST SETUP 230

3.5.3 TEST INSTRUMENTS..... 230

3.5.4 TEST PROCEDURE..... 230

3.5.5 DEVIATION FROM TEST STANDARD 230

3.5.6 EUT OPERATING CONDITION 230

3.5.7 TEST RESULTS 231

3.6 OUT OF BAND EMISSION MEASUREMENT 232

3.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT 232

3.6.2 TEST SETUP 232

3.6.3 TEST INSTRUMENTS..... 232

3.6.4 TEST PROCEDURE..... 232

3.6.5 DEVIATION FROM TEST STANDARD 233

3.6.6 EUT OPERATING CONDITION 233

3.6.7 TEST RESULTS 233

3.7 ANTENNA REQUIREMENTS 234

3.7.1 STANDARD APPLICABLE 234

3.7.2 ANTENNA CONNECTED CONSTRUCTION..... 234

3.7.3 ANTENNA GAIN 234

4 PHOTOGRAPHS OF THE TEST CONFIGURATION 235

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB
236

6 APPENDIX A:WIFI 237

DTS BANDWIDTH 237

TEST RESULT 237

TEST GRAPHS..... 239

OCCUPIED CHANNEL BANDWIDTH 245

TEST RESULT 245



TEST GRAPHS..... 247

MAXIMUM CONDUCTED OUTPUT POWER 253

 TEST RESULT PEAK 253

 TEST RESULT AVERAGE 256

MAXIMUM POWER SPECTRAL DENSITY 259

 TEST RESULT 259

 TEST GRAPHS..... 261

BAND EDGE MEASUREMENTS 267

 TEST RESULT 267

 TEST GRAPHS..... 269

CONDUCTED SPURIOUS EMISSION..... 273

 TEST RESULT 273

 TEST GRAPHS..... 277

DUTY CYCLE 295

 TEST RESULT 295

 TEST GRAPHS..... 296

7 APPENDIX B:BLE..... 306

DTS BANDWIDTH 306

 TEST RESULT 306

 TEST GRAPHS..... 307

OCCUPIED CHANNEL BANDWIDTH 315

 TEST RESULT 315

 TEST GRAPHS..... 316

MAXIMUM CONDUCTED OUTPUT POWER 324

 TEST RESULT PEAK 324

 TEST RESULT AVERAGE 325

MAXIMUM POWER SPECTRAL DENSITY 326

 TEST RESULT 326

 TEST GRAPHS..... 327

BAND EDGE MEASUREMENTS 335

 TEST RESULT 335

 TEST GRAPHS..... 336

CONDUCTED SPURIOUS EMISSION..... 342

 TEST RESULT 342

 TEST GRAPHS..... 345

DUTY CYCLE 369

 TEST RESULT 369

 TEST GRAPHS..... 370



| | |
|--------------------------------------|------------|
| 8 APPENDIX C: RU WLAN..... | 378 |
| DTS BANDWIDTH | 378 |
| TEST RESULT | 378 |
| TEST GRAPHS..... | 380 |
| OCCUPIED CHANNEL BANDWIDTH | 383 |
| TEST RESULT | 383 |
| TEST GRAPHS..... | 385 |
| MAXIMUM CONDUCTED OUTPUT POWER | 388 |
| MAXIMUM POWER SPECTRAL DENSITY | 389 |
| TEST RESULT | 389 |
| TEST GRAPHS..... | 390 |
| BAND EDGE MEASUREMENTS | 393 |
| TEST RESULT | 393 |
| TEST GRAPHS..... | 393 |
| CONDUCTED SPURIOUS EMISSION..... | 396 |
| TEST RESULT | 396 |
| TEST GRAPHS..... | 399 |
| DUTY CYCLE | 410 |
| TEST RESULT | 410 |
| TEST GRAPHS..... | 411 |



RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|-----------------------|-------------------|---------------|
| PSU-QBJ2507100210RF02 | Original release | Jul. 31, 2025 |



1. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247) | | | |
|---|----------------------------------|------------|-----------|
| STANDARD SECTION | TEST TYPE AND LIMIT | RESULT | TEST LAB* |
| 15.207 | AC Power Conducted Emission | Compliance | A |
| 15.205 15.209 | Radiated Emissions | Compliance | A |
| 15.247(d) | Out of band Emission Measurement | Compliance | A |
| 15.247(a)(2) | 6dB bandwidth | Compliance | A |
| 15.247(b) | Conducted Output power | Compliance | A |
| 15.247(e) | Power Spectral Density | Compliance | A |
| 15.203 | Antenna Requirement | Compliance | A |

Note : Except RSE and AC Power Conducted Emission, other data please refer to Appendix B.

*Test Lab Information Reference

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China

Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

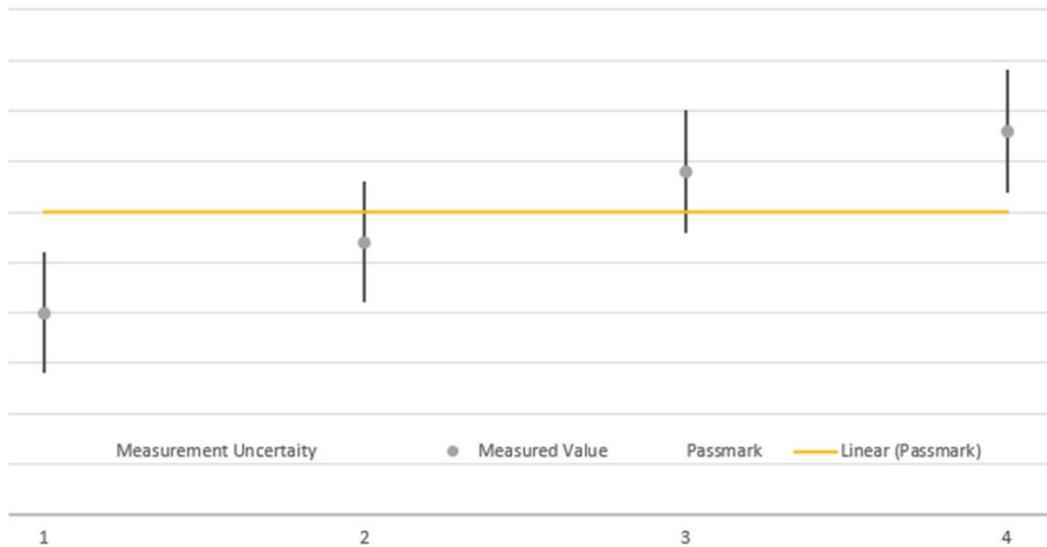


1.1 MEASUREMENT UNCERTAINTY

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

| MEASUREMENT | UNCERTAINTY |
|-----------------------------------|-------------|
| AC Power Conducted emissions | ±2.70dB |
| Radiated emissions (9KHz~30MHz) | ±2.68dB |
| Radiated emissions (30MHz~1GHz) | ±4.98dB |
| Radiated emissions (1GHz ~6GHz) | ±4.70dB |
| Radiated emissions (6GHz ~18GHz) | ±4.60dB |
| Radiated emissions (18GHz ~40GHz) | ±4.12dB |
| Conducted emissions | ±4.01dB |
| Occupied Channel Bandwidth | ±43.58KHz |
| Conducted Output power | ±2.06dB |
| Power Spectral Density | ±0.85 dB |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.



The verdicts in this test report are given according the above diagram:

| Case | Measured Value | Uncertainty Range | Verdict |
|------|-----------------|-------------------|---------|
| 1 | below pass mark | below pass mark | Passed |
| 2 | below pass mark | within pass mark | Passed |
| 3 | above pass mark | within pass mark | Failed |
| 4 | above pass mark | above pass mark | Failed |

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.



2 GENERAL INFORMATION

2.2 GENERAL DESCRIPTION OF EUT

| | | |
|----------------------------|--|---|
| PRODUCT* | Tablet Computer | |
| BRAND NAME* | POCO | |
| MODEL NAME* | 2509ARPDG | |
| NOMINAL VOLTAGE* | 5/3.6-11Vdc(adapter or host equipment) 3.91Vdc(Li-ion,battery) | |
| MODULATION * | BLE | GFSK |
| | 2.4G WIFI | DSSS,OFDM,OFDMA |
| TRANSMISSION RATE* | BT_LE: 0.125 Mbps /0.5 Mbps /1 Mbps/2 Mbps | |
| | 802.11b: 11/5.5/2.0/1.0 Mbps | |
| | 802.11g: 54/48/36/24/18/9/6 Mbps | |
| | 802.11n(HT20)/802.11ac(HT20)/ax(HE20): up to 144.4 Mbps | |
| | 802.11n(HT40)/ 802.11ac(HT40)/ax(HE40): up to 300 Mbps | |
| OPERATING FREQUENCY | 2412-2462MHz for 11b/g/n(HT20) /ax(HE20)/ ax(20/40M RU26/52/106) | |
| | 2402-2480MHz for BT-LE(GFSK) | |
| | 2422-2452MHz for 11n(HT40) /ax(HE40) | |
| MAX. OUTPUT POWER | BT-LE: 4.21mW (Maximum) | |
| | WLAN: 765.60mW (Maximum) | |
| | RU WLAN: 766.31mW (Maximum) | |
| ANTENNA GAIN* | BLE | ANT 7 :1.6dBi ANT 10 :1.6dBi |
| | 2.4G WIFI | ANT 7 :-2.68dBi ANT 10 :1.60dBi |
| ANTENNA TYPE* | BLE | ANT 7 : PIFA Antenna ANT 10 : PIFA Antenna |
| | 2.4G WIFI | ANT 7 : PIFA Antenna ANT 10 : PIFA Antenna |
| HW VERSION* | 135700P83 | |
| SW VERSION* | Xiaomi HyperOS 2.0 | |
| I/O PORTS* | Refer to user's manual | |
| CABLE SUPPLIED* | USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable3: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable4: non-shielded cable, with w/o ferrite core, 1.0 meter | |



NOTE:

1. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
3. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitter and two receiver.

| MODULATION MODE | TX/RX FUNCTION |
|--|-----------------------|
| 802.11b | 2TX/2RX |
| 802.11g | 2TX/2RX |
| 802.11n(HT20)/11ax(HE20)/11ac(HE20)/ax(20M RU26/52/106) | 2TX/2RX |
| 802.11n(HT40)/11ax(HE40)/11ac(HE20) | 2TX/2RX |
| BT_LE(1MHz) | 2TX/2RX |
| BT_LE(2MHz) | 2TX/2RX |
| BT_LE(S2) | 2TX/2RX |
| BT_LE(S8) | 2TX/2RX |

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
5. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.



2.3 DESCRIPTION OF TEST MODES

11 Channels are provided for 802.11b, 802.11g and 802.11n20 (HT20),802.11ax20 (HE20),802.11ax20(RU 26/52/106):

| 802.11b/802.11g/802.11n20 (HT20)/802.11ax20 (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 | | |

| 802.11n40 (HT40)/ 802.11ax40 (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 | | |

| BT-LE | | | | | | | |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| CHANNEL | FREQ. (MHZ) |
| 0 | 2402 | 10 | 2422 | 20 | 2442 | 30 | 2462 |
| 1 | 2404 | 11 | 2424 | 21 | 2444 | 31 | 2464 |
| 2 | 2406 | 12 | 2426 | 22 | 2446 | 32 | 2466 |
| 3 | 2408 | 13 | 2428 | 23 | 2448 | 33 | 2468 |
| 4 | 2410 | 14 | 2430 | 24 | 2450 | 34 | 2470 |
| 5 | 2412 | 15 | 2432 | 25 | 2452 | 35 | 2472 |
| 6 | 2414 | 16 | 2434 | 26 | 2454 | 36 | 2474 |
| 7 | 2416 | 17 | 2436 | 27 | 2456 | 37 | 2476 |
| 8 | 2418 | 18 | 2438 | 28 | 2458 | 38 | 2478 |
| 9 | 2420 | 19 | 2440 | 29 | 2460 | 39 | 2480 |



2.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 4 photographs of the test configuration for reference.

2.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

| EUT CONFIGURE MODE | APPLICABLE TO | | | | MODE |
|--------------------|---------------|-------|-----|------|------|
| | RE<1G | RE≥1G | PLC | APCM | |
| - | √ | √ | √ | √ | - |

Where **RE<1G**: Radiated Emission below 1GHz **RE≥1G**: Radiated Emission above 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement
NOTE: No need to concern of Conducted Emission due to the EUT is powered by battery.

RADIATED EMISSION TEST (BELOW 1GHz):

- 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).
- The following channel(s) was (were) selected for the final test as listed below.

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
|-------------------|-------------------|----------------|------------|------------------|
| 802.11ax(20 RU26) | 1 to 11 | 6 | OFDM | MCS0 |
| BT-LE | 0 to 39 | 19 | GFSK | 0.5 |



RADIATED EMISSION TEST (ABOVE 1GHz):

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).

The following channel(s) was (were) selected for the final test as listed below.

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
|------------------------------|-------------------|----------------|------------|------------------|
| 802.11b | 1 to 11 | 1, 6, 11 | DSSS | 1.0 |
| 802.11g | 1 to 11 | 1, 6, 11 | OFDM | 6.0 |
| 802.11n20(HT20) | 1 to 11 | 1, 6, 11 | OFDM | MCS0 |
| 802.11ax20(HE20) | 1 to 11 | 1, 6, 11 | OFDMA | MCS0 |
| 802.11ax20(HE20 RU26/52/106) | 1 to 11 | 1, 6, 11 | OFDMA | MCS0 |
| 802.11n(HT40) | 3 to 9 | 3,6,9 | OFDM | MCS0 |
| 802.11ax(HE40) | 3 to 9 | 3,6,9 | OFDMA | MCS0 |
| BT-LE | 0 to 39 | 0,19, 39 | GFSK | 0.125&0.5&1.0 |
| BT-LE | 1 to 38 | 1,19, 38 | GFSK | 2.0 |

POWER LINE CONDUCTED EMISSION TEST

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

The following channel(s) was (were) selected for the final test as listed below.

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
|-----------|-------------------|----------------|------------|------------------|
| 802.11n20 | 1 to 11 | 6 | OFDM | MCS0 |



BANDEDGE MEASUREMENT:

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

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
|---------------------------------|-------------------|----------------|------------|------------------|
| 802.11b | 1 to 11 | 1, 6, 11 | DSSS | 1.0 |
| 802.11g | 1 to 11 | 1, 6, 11 | OFDM | 6.0 |
| 802.11n20(HT20) | 1 to 11 | 1, 6, 11 | OFDM | MCS0 |
| 802.11ax20(HE20) | 1 to 11 | 1, 6, 11 | OFDMA | MCS0 |
| 802.11ax20(HE20 RU26/52/106) | 1 to 11 | 1, 6, 11 | OFDMA | MCS0 |
| 802.11n(HT40) | 3 to 9 | 3,6,9 | OFDM | MCS0 |
| 802.11ax(HE40) | 3 to 9 | 3,6,9 | OFDMA | MCS0 |
| BT-LE | 0 to 39 | 0,19, 39 | GFSK | 0.125&0.5&1.0 |
| BT-LE | 1 to 38 | 1,19, 38 | GFSK | 2.0 |



ANTENNA PORT CONDUCTED MEASUREMENT:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- The following channel(s) was (were) selected for the final test as listed below.

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
|------------------------------|-------------------|----------------|------------|------------------|
| 802.11b | 1 to 11 | 1, 6, 11 | DSSS | 1.0 |
| 802.11g | 1 to 11 | 1, 6, 11 | OFDM | 6.0 |
| 802.11n20(HT20) | 1 to 11 | 1, 6, 11 | OFDM | MCS0 |
| 802.11ax20(HE20) | 1 to 11 | 1, 6, 11 | OFDMA | MCS0 |
| 802.11ax20(HE20 RU26/52/106) | 1 to 11 | 1, 6, 11 | OFDMA | MCS0 |
| 802.11n(HT40) | 3 to 9 | 3,6,9 | OFDM | MCS0 |
| 802.11ax(HE40) | 3 to 9 | 3,6,9 | OFDMA | MCS0 |
| BT-LE | 0 to 39 | 0,19, 39 | GFSK | 0.125&0.5&1.0 |
| BT-LE | 1 to 38 | 1,19, 38 | GFSK | 2.0 |

| TEST CONDITION | | | |
|----------------|--------------------------|--------------------|-----------|
| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | TEST VOLTAGE | TESTED BY |
| RE<1G | 23deg. C, 70%RH | DC 3.8V By Adapter | Hanwen Xu |
| RE≥1G | 23deg. C, 70%RH | DC 3.8V By Adapter | Hanwen Xu |
| PLC | 25deg. C, 52%RH | DC 3.8V By Adapter | Hanwen Xu |
| APCM | 25deg. C, 60%RH | DC 3.8V By Adapter | Hanwen Xu |



2.4 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix B Of this test report..

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart C, Section 15.247

KDB 558074 D01 DTS Meas Guidance v05r02

ANSI C63.10-2020

Note :

1. All test items have been performed and recorded as per the above standards.
2. The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.



2.6 DESCRIPTION OF SUPPORT UNITS

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

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|----------|--------|--------------|------------|--------|
| 1 | Laptop | Lenovo | Thinkpad E14 | SL10W47313 | N/A |
| 2 | Adapter | N/A | N/A | N/A | N/A |
| 3 | Mouse | Lenovo | DOK M689E | N/A | N/A |
| 4 | Earphone | MI | N/A | N/A | N/A |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1 | AC Line: Unshielded, Detachable 1.5m |
| 2 | USB Line: Unshielded, Detachable, 1.0m; |



3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dB μ V) | |
|-----------------------------|------------------------------|----------|
| | Quasi-peak | Average |
| 0.15 ~ 0.5 | 66 to 56 | 56 to 46 |
| 0.5 ~ 5 | 56 | 46 |
| 5 ~ 30 | 60 | 50 |

NOTE:

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 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



3.1.2 TEST INSTRUMENTS

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|--|---------------|-----------|------------|-----------|-----------|
| WIDEBANDRADIO COMMUNICATION TESTER | Rohde&Schwarz | CMW500 | 169399 | Jun.19,24 | Jun.18,26 |
| EMI Test Receiver | Rohde&Schwarz | ESR3 | 102749 | Mar.28,24 | Mar.27,26 |
| ELEKTRA test software | Rohde&Schwarz | ELEKTRA | NA | N/A | N/A |
| LISN network | Rohde&Schwarz | ENV216 | 102640 | Mar.29,24 | Mar.28,26 |
| CABLE | Rohde&Schwarz | W61.01 | N/A | Apr.26,25 | Apr.25,26 |
| CABLE | Rohde&Schwarz | W601 | N/A | Apr.26,25 | Apr.25,26 |

NOTE:

1. The test was performed in CE shielded room.
2. The calibration interval of the above test instruments is 12/24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



3.1.3 TEST PROCEDURES

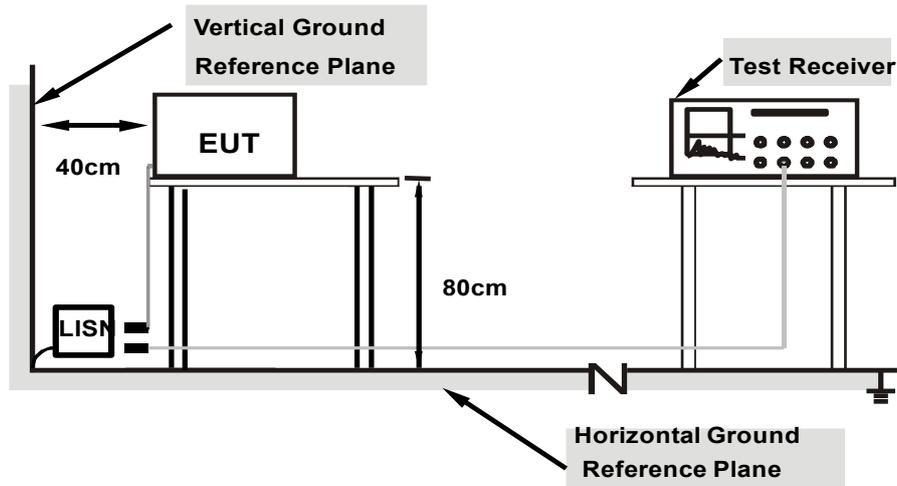
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

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

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.

3.1.5 TEST SETUP



- Note:**
- 1.Support units were connected to second LISN.
 - 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

3.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



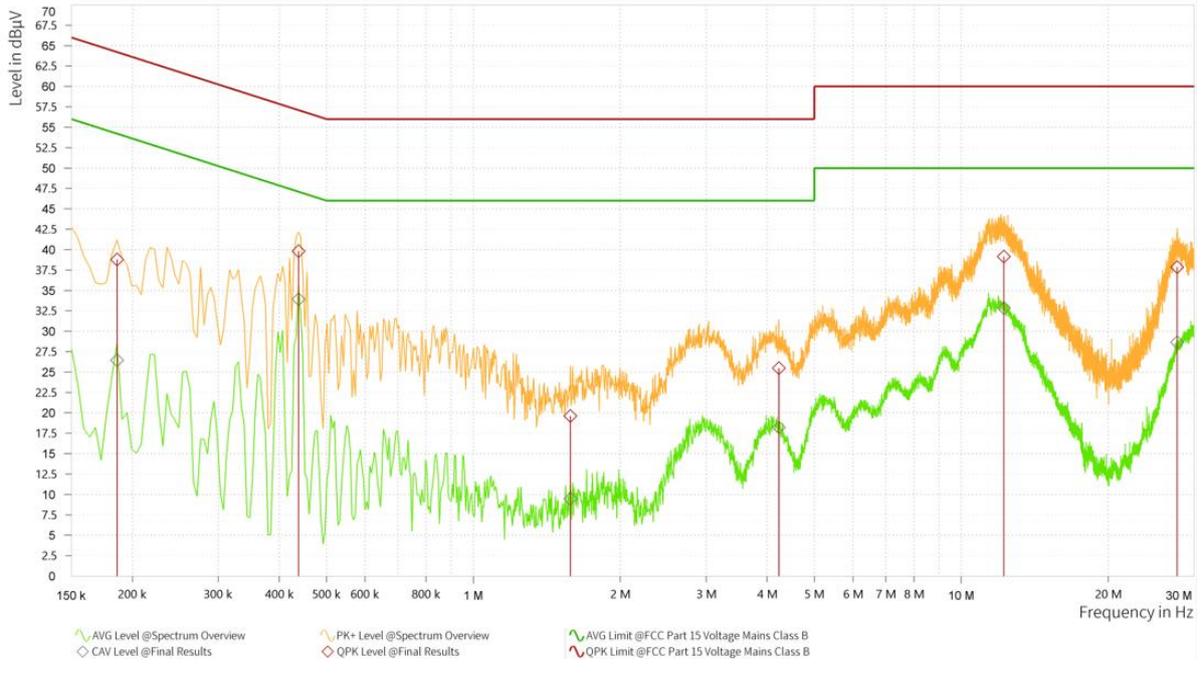
3.1.7 TEST RESULTS

| CONDUCTED WORST-CASE DATA | | | |
|---------------------------|----------------|--|---------------------------------------|
| Frequency Range | 150KHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power | 120Vac, 60Hz | Environmental Conditions | 26deg. C, 51%RH |
| Tested By | Hanwen Xu | | |

| Rg | Frequency [MHz] | QPK Level [dBμV] | QPK Limit [dBμV] | QPK Margin [dB] | CAV Level [dBμV] | CAV: AVG Limit [dBμV] | CAV Margin [dB] | Correction [dB] | Line | Meas. BW [kHz] |
|----|-----------------|------------------|------------------|-----------------|------------------|-----------------------|-----------------|-----------------|------|----------------|
| 1 | 0.186 | 38.78 | 64.21 | 25.43 | 26.45 | 54.21 | 27.76 | 9.79 | L1 | 9.000 |
| 1 | 0.438 | 39.80 | 57.10 | 17.30 | 33.94 | 47.10 | 13.16 | 9.75 | L1 | 9.000 |
| 1 | 1.581 | 19.63 | 56.00 | 36.37 | 9.47 | 46.00 | 36.53 | 9.79 | L1 | 9.000 |
| 1 | 4.227 | 25.47 | 56.00 | 30.53 | 18.20 | 46.00 | 27.80 | 10.06 | L1 | 9.000 |
| 1 | 12.228 | 39.14 | 60.00 | 20.86 | 32.85 | 50.00 | 17.15 | 11.55 | L1 | 9.000 |
| 1 | 27.690 | 37.87 | 60.00 | 22.13 | 28.65 | 50.00 | 21.35 | 14.44 | L1 | 9.000 |

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Limit value -Emission level
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.





| Frequency Range | | 150KHz ~ 30MHz | | Detector Function & Resolution Bandwidth | | Quasi-Peak (QP) / Average (AV), 9 kHz | | | | |
|------------------------|-----------------|------------------|------------------|---|------------------|---------------------------------------|-----------------|-----------------|------|----------------|
| Input Power | | 120Vac, 60Hz | | Environmental Conditions | | 26deg. C, 51%RH | | | | |
| Tested By | | Hanwen Xu | | | | | | | | |
| Rg | Frequency [MHz] | QPK Level [dBμV] | QPK Limit [dBμV] | QPK Margin [dB] | CAV Level [dBμV] | CAV: AVG Limit [dBμV] | CAV Margin [dB] | Correction [dB] | Line | Meas. BW [kHz] |
| 1 | 0.159 | 41.42 | 65.52 | 24.10 | 25.11 | 55.52 | 30.41 | 9.82 | N | 9.000 |
| 1 | 0.434 | 40.18 | 57.19 | 17.01 | 33.18 | 47.19 | 14.01 | 9.77 | N | 9.000 |
| 1 | 1.626 | 27.53 | 56.00 | 28.47 | 18.83 | 46.00 | 27.17 | 9.81 | N | 9.000 |
| 1 | 5.541 | 28.80 | 60.00 | 31.20 | 22.32 | 50.00 | 27.68 | 10.25 | N | 9.000 |
| 1 | 12.318 | 40.07 | 60.00 | 19.93 | 33.83 | 50.00 | 16.17 | 11.64 | N | 9.000 |
| 1 | 27.695 | 37.15 | 60.00 | 22.85 | 28.06 | 50.00 | 21.94 | 14.22 | N | 9.000 |

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Limit value -Emission level
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

| FREQUENCIES (MHz) | FIELD STRENGTH (microvolts/meter) | MEASUREMENT DISTANCE (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 |
| 1.705 ~ 30.0 | 30 | 30 |
| 30 ~ 88 | 100 | 3 |
| 88 ~ 216 | 150 | 3 |
| 216 ~ 960 | 200 | 3 |
| Above 960 | 500 | 3 |

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, 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 20dB under any condition of modulation.



3.2.2 TEST INSTRUMENTS

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|------------------------------------|------------------------------|------------------|-----------------------|-----------|-----------|
| Pre-Amplifier | R&S | SCU18F1 | 100815 | Aug.30,23 | Aug.29,25 |
| Pre-Amplifier | R&S | SCU08F1 | 101028 | Jan.22,24 | Jan.21,26 |
| Signal Generator | R&S | SMB100A | 182185 | Mar.29,24 | Mar.28,26 |
| 3m Fully-anechoic Chamber | TDK | 9m*6m*6m | HRSW-SZ-EMC-01Chamber | Nov.25,22 | Nov.24,25 |
| 3m Semi-anechoic Chamber | TDK | 9m*6m*6m | HRSW-SZ-EMC-02Chamber | Nov.25,22 | Nov.24,25 |
| EMI TEST Receiver | R&S | ESW44 | 101973 | Mar.28,24 | Mar.27,26 |
| Bilog Antenna | SCHWARZBECK | VULB 9163 | 1264 | Dec.26,23 | Dec.25,25 |
| Horn Antenna | ETS-LINDGREN | 3117 | 227836 | Aug.22,23 | Aug.21,25 |
| Horn Antenna (18GHz-40GHz) | Steatite Q-par Antennas | QMS 00880 | 23486 | Jul.15,24 | Jul.14,26 |
| Horn Antenna | Steatite Q-par Antennas | QMS 00208 | 23485 | Aug.22,23 | Aug.21,25 |
| Loop Antenna | SCHWARZ | HFH2-Z2/Z2E | 100976 | Feb.22,25 | Feb.21,27 |
| WIDEBANDRADIO COMMUNICATION TESTER | R&S | CMW500 | 169399 | Jun.19,24 | Jun.18,26 |
| Test Software | ELEKTRA | ELEKTRA4.32 | N/A | N/A | N/A |
| Open Switch and Control Unit | R&S | OSP220 | 101964 | N/A | N/A |
| DC Source | HYELEC | HY3010B | 551016 | Aug.31,23 | Aug.30,25 |
| Hygrothermograph | DELI | 20210528 | SZ014 | Mar.18,25 | Mar.17,27 |
| 6DB attenuator | Tonscend Technology Co., Ltd | N/A | 23062787 | N/A | N/A |
| PC | LENOVO | E14 | HRSW0024 | N/A | N/A |
| TMC-AMI18843A(CABLE) | R&S | HF290-NMNM-7.00M | N/A | N/A | N/A |
| TMC-AMI18843A(CABLE) | R&S | HF290-NMNM-4.00M | N/A | N/A | N/A |
| CABLE | R&S | W13.02 | N/A | Apr.26,25 | Apr.25,26 |



| | | | | | |
|-------|-----|--------|-----|-----------|-----------|
| CABLE | R&S | W12.14 | N/A | Apr.26,25 | Apr.25,26 |
|-------|-----|--------|-----|-----------|-----------|

NOTE:

1. The calibration interval of the above test instruments is 12/ 24 / 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in 3m Chamber.
3. The FCC Site Registration No. is 434559; The Designation No. is CN1325.



3.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) 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 antenna is a broadband antenna, and its height 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

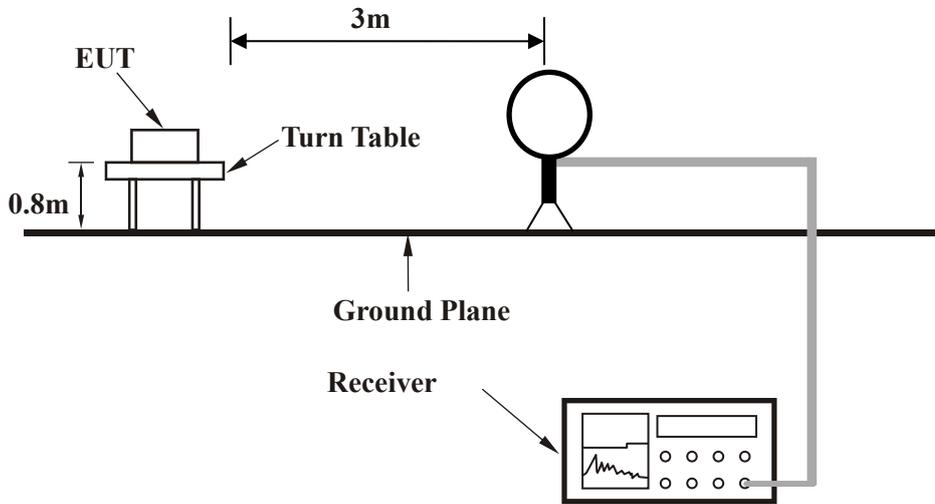
3.2.4 DEVIATION FROM TEST STANDARD

No deviation

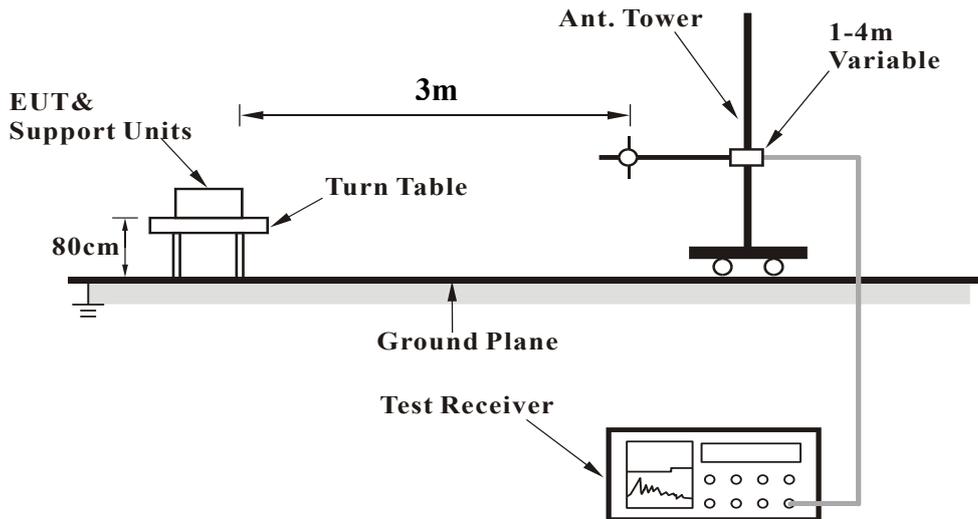


3.2.5 TEST SETUP

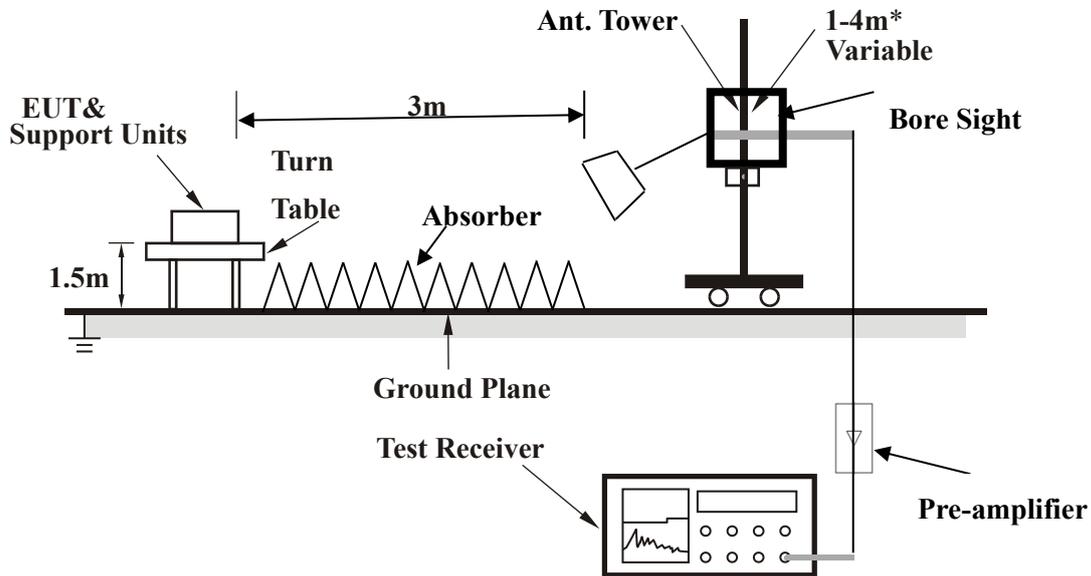
<Frequency Range 9KHz~30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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

3.2.6 EUT OPERATING CONDITIONS

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.



3.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

NOTE: The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

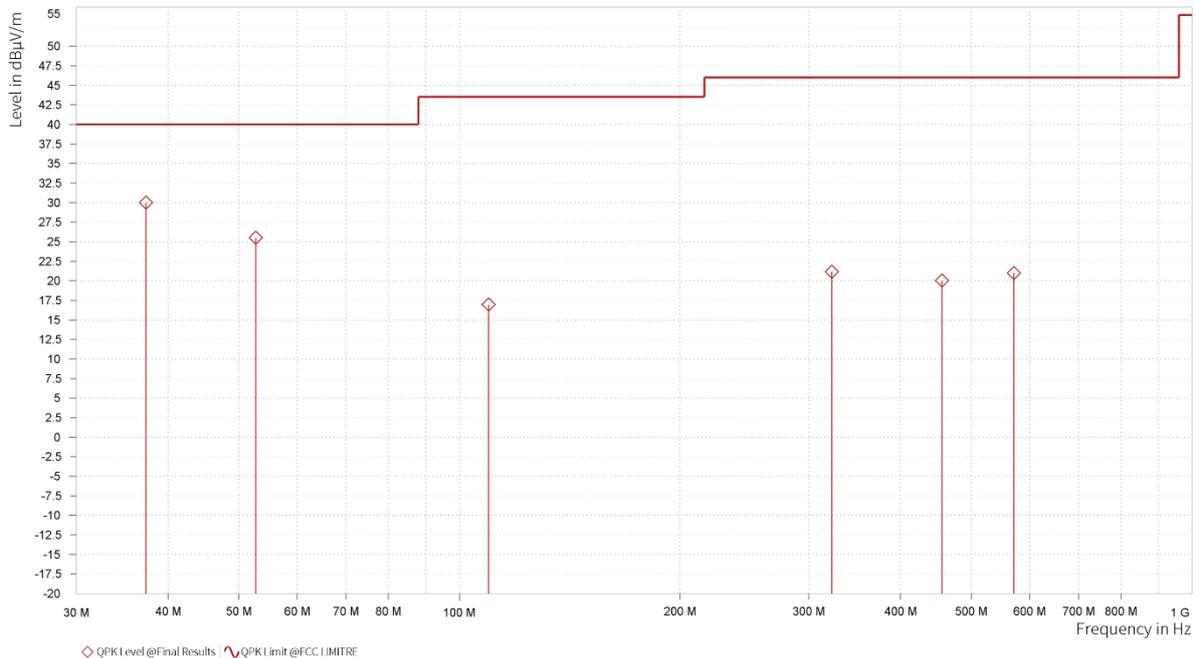
| 802.11ax(20MHz RU26) | | | |
|------------------------|--------------|-----------------|-----------------|
| CHANNEL | TX Channel 6 | DETECTOR | Quasi-Peak (QP) |
| FREQUENCY RANGE | 30MHz ~ 1GHz | FUNCTION | |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency [MHz] | QPK Level [dBμV/m] | QPK Limit [dBμV/m] | QPK Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] | Meas. BW [kHz] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|----------------|
| 1 | 37.324 | 29.98 | 40.00 | 10.02 | -10.56 | H | 1 | 1.00 | 120.000 |
| 1 | 52.747 | 25.49 | 40.00 | 14.51 | -8.98 | H | 301.7 | 1.00 | 120.000 |
| 1 | 109.637 | 16.95 | 43.50 | 26.55 | -11.17 | H | 13.4 | 2.00 | 120.000 |
| 1 | 322.552 | 21.16 | 46.00 | 24.84 | -6.39 | H | 301.7 | 1.00 | 120.000 |
| 1 | 456.024 | 20.03 | 46.00 | 25.97 | -2.60 | H | 355.8 | 2.00 | 120.000 |
| 1 | 571.212 | 21.00 | 46.00 | 25.00 | -2.77 | H | 4.2 | 1.00 | 120.000 |

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.





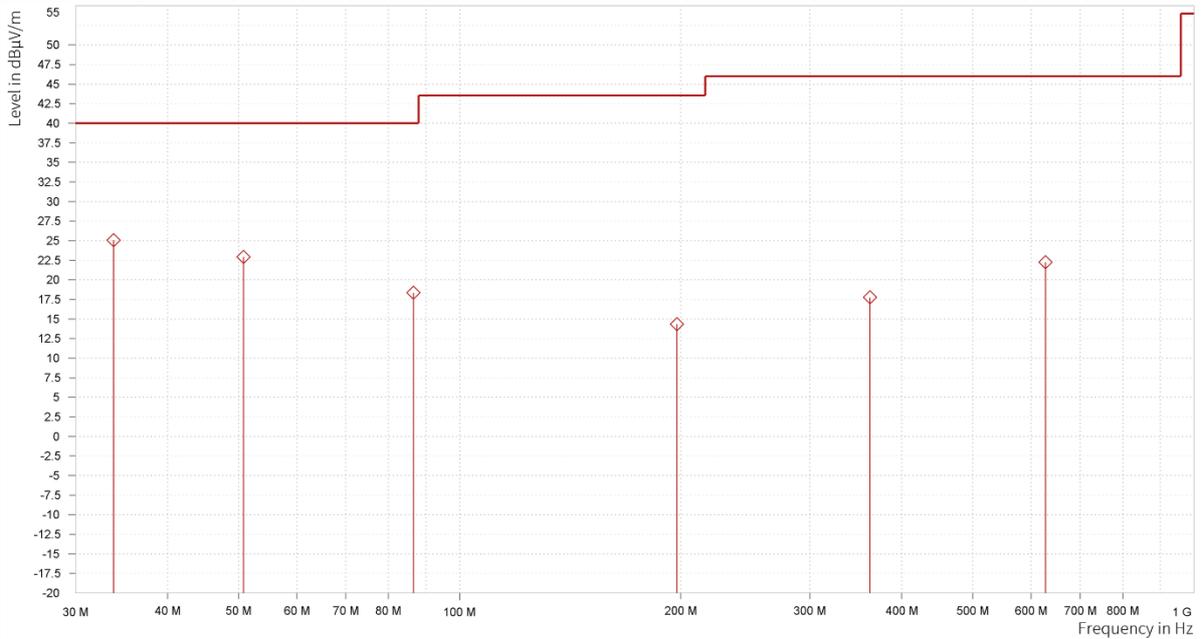
| | | | |
|------------------------|--------------|--------------------------|-----------------|
| CHANNEL | TX Channel 6 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 30MHz ~ 1GHz | | |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| Rg | Frequency [MHz] | QPK Level [dBμV/m] | QPK Limit [dBμV/m] | QPK Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] | Meas. BW [kHz] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|----------------|
| 1 | 33.783 | 25.05 | 40.00 | 14.95 | -13.71 | V | 4.2 | 1.00 | 120.000 |
| 1 | 50.807 | 22.91 | 40.00 | 17.09 | -10.01 | V | 172.6 | 1.00 | 120.000 |
| 1 | 86.503 | 18.32 | 40.00 | 21.68 | -13.29 | V | 172.6 | 1.00 | 120.000 |
| 1 | 197.713 | 14.32 | 43.50 | 29.18 | -10.65 | V | 4.2 | 1.00 | 120.000 |
| 1 | 361.934 | 17.73 | 46.00 | 28.27 | -4.03 | V | 4.2 | 1.00 | 120.000 |
| 1 | 627.811 | 22.24 | 46.00 | 23.76 | -2.07 | V | 355.2 | 2.00 | 120.000 |

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- Margin value = Limit value- Emission level.

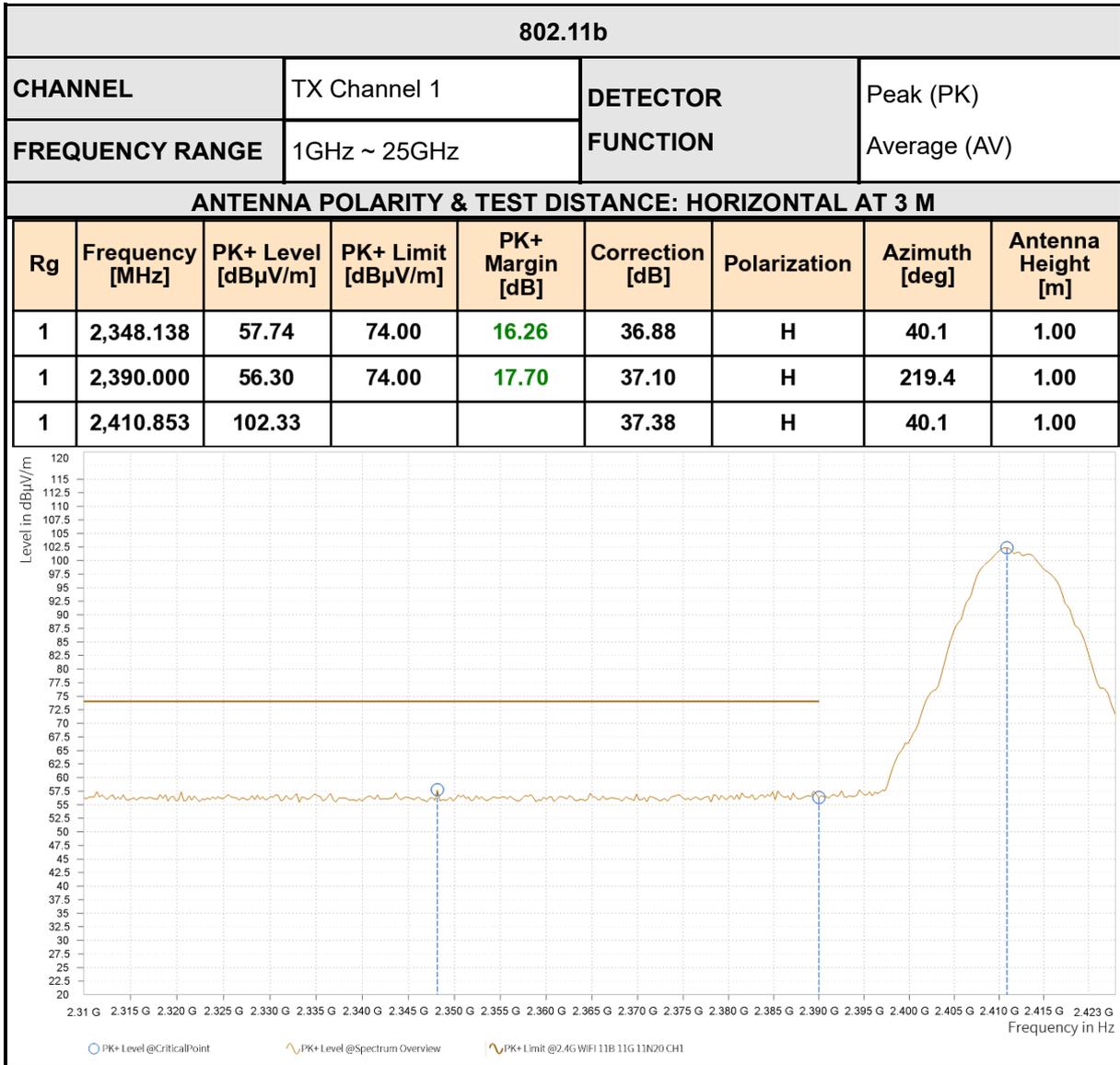


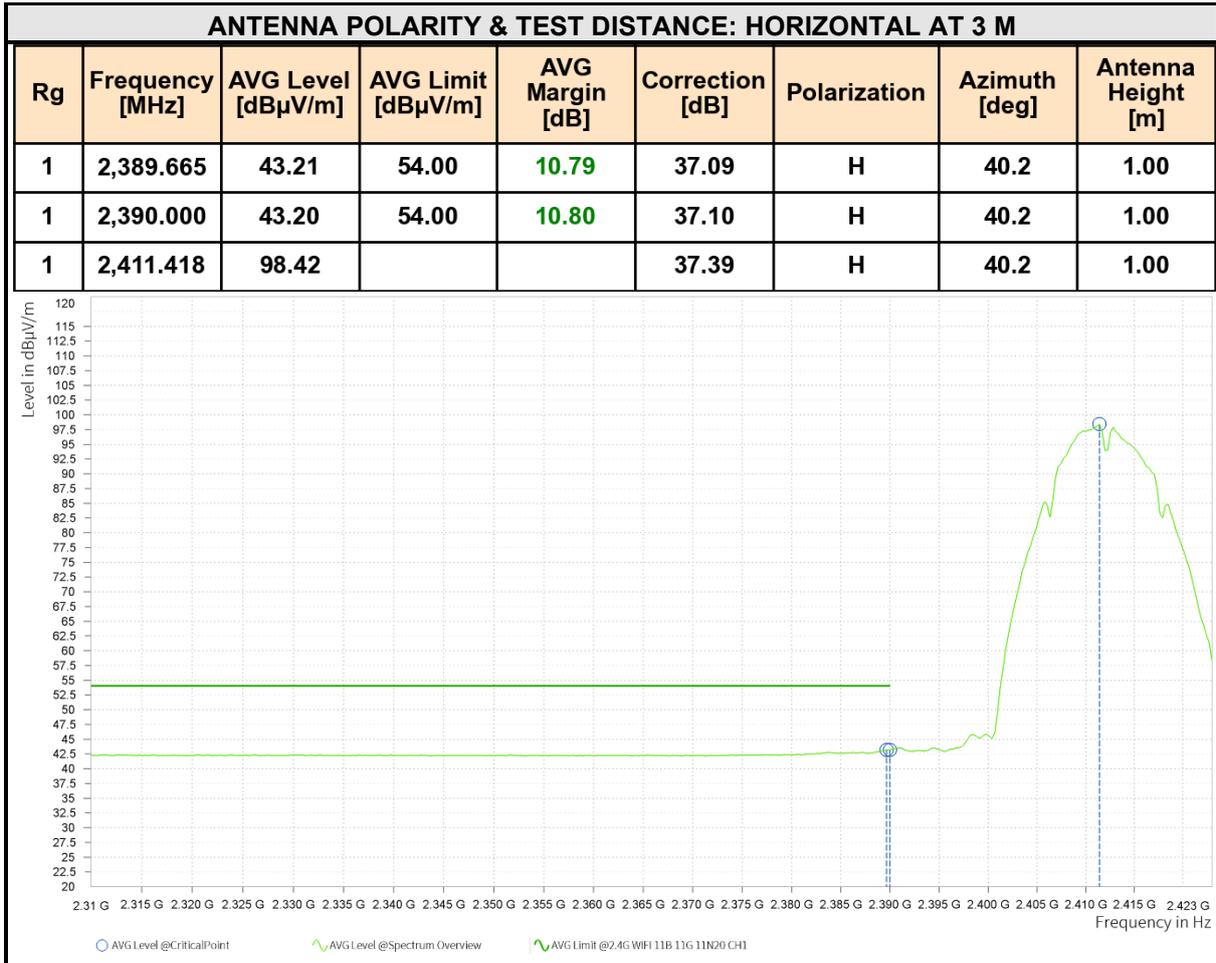


ABOVE 1GHz WORST-CASE DATA

Note:

1. For radiated emissions testing , the full testing range of different modes have been scanned , only the worst case harmonic data is reported in the sheet.
2. All other emissions were greater than 20dB below the limit was not recorded

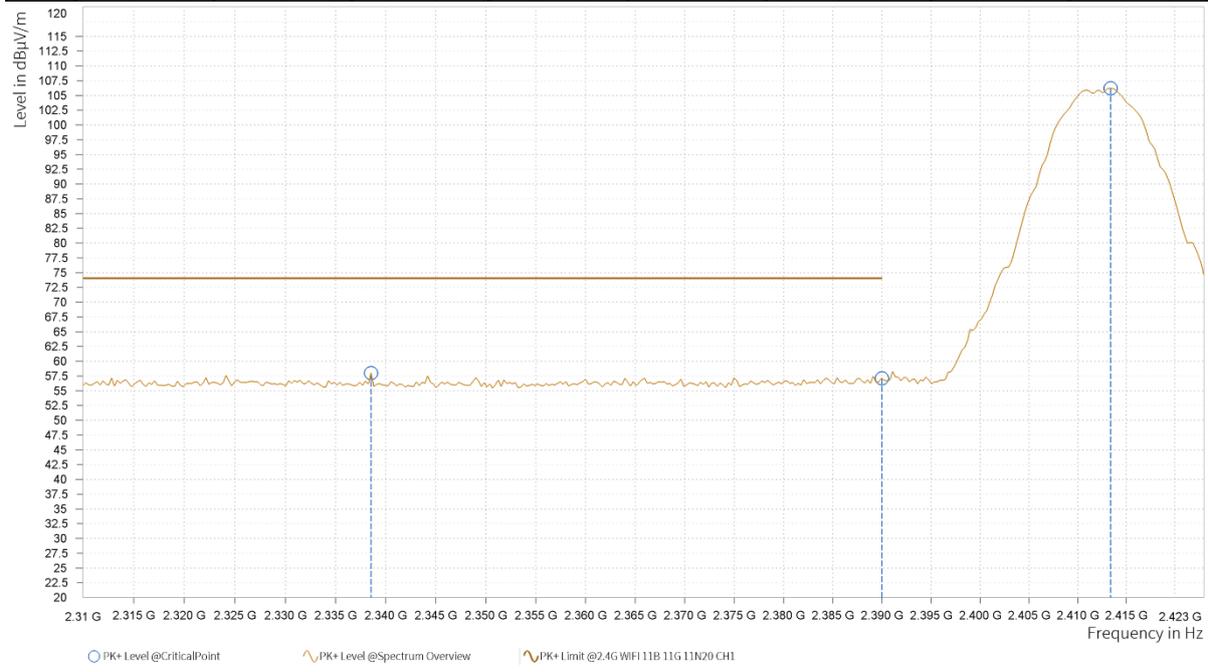


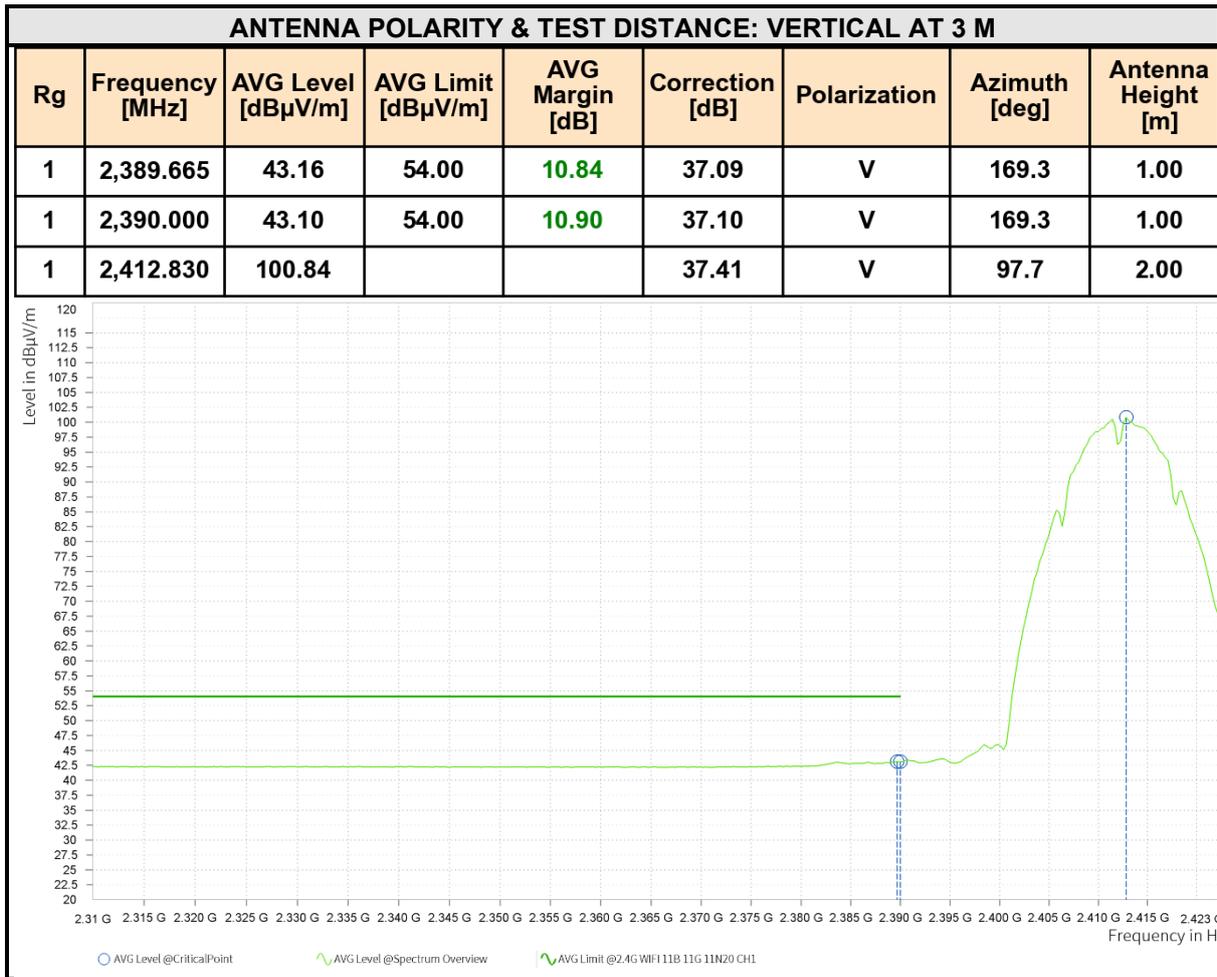




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

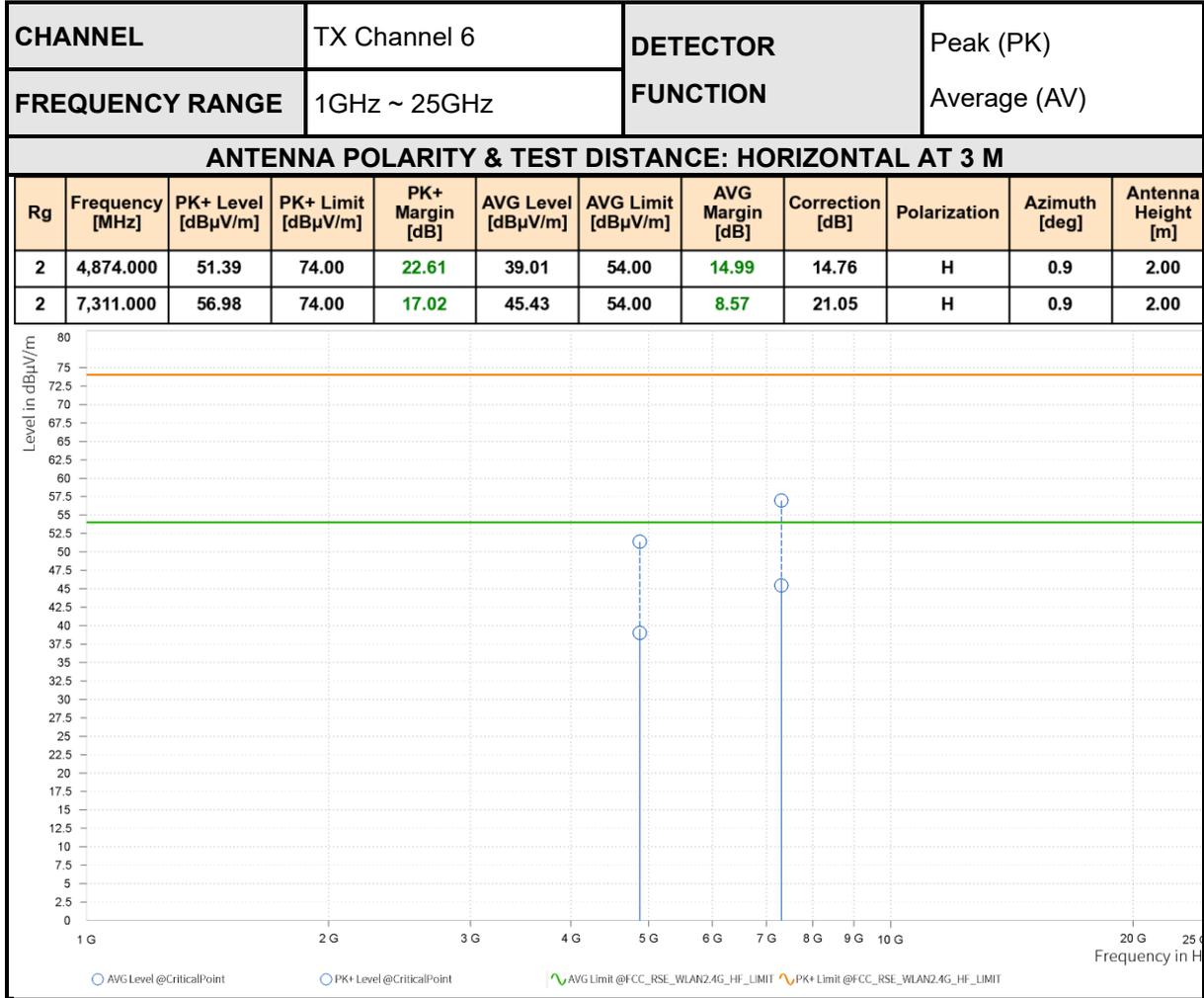
| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1 | 2,338.533 | 57.99 | 74.00 | 16.01 | 36.90 | V | 350.6 | 1.00 |
| 1 | 2,390.000 | 57.12 | 74.00 | 16.88 | 37.10 | V | 264.8 | 1.00 |
| 1 | 2,413.400 | 106.20 | | | 37.42 | V | 96.4 | 2.00 |

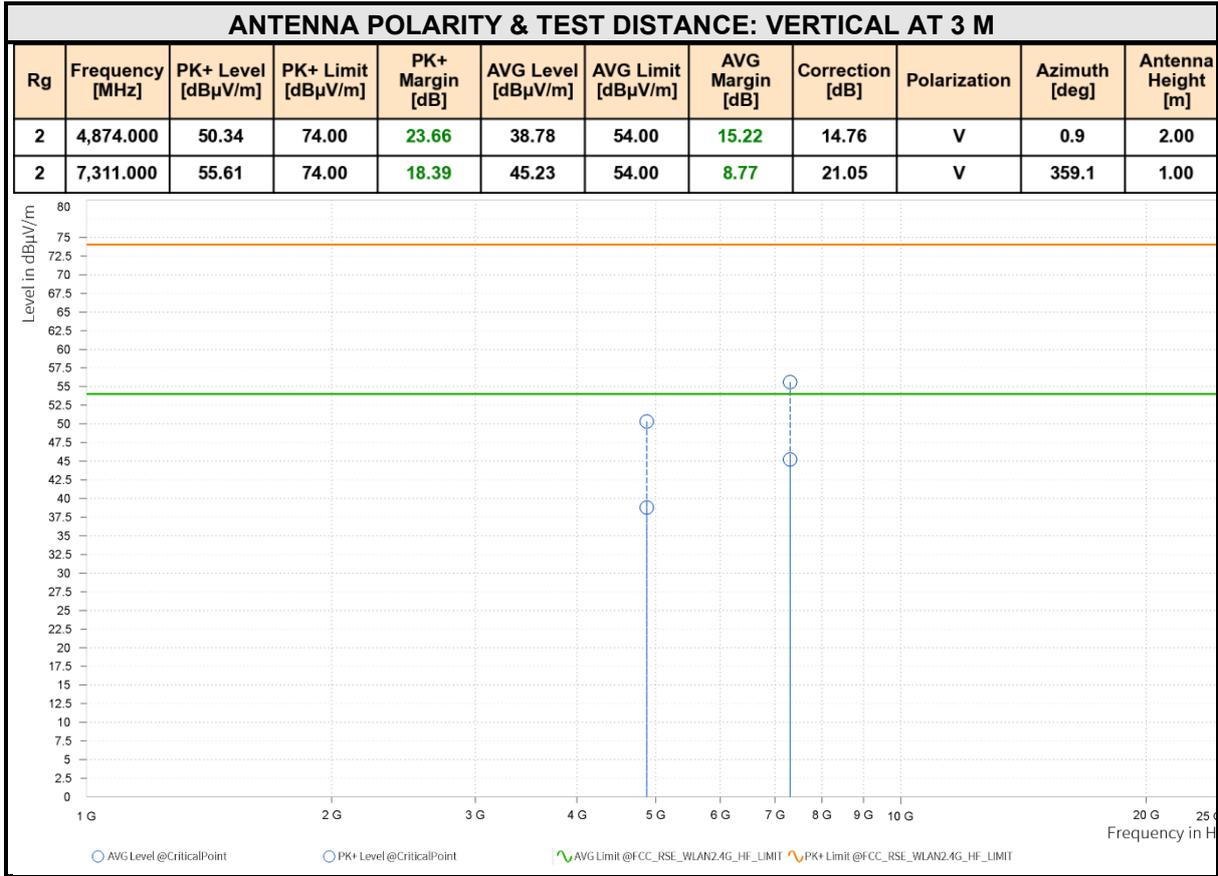




REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 2412MHz: Fundamental frequency.





REMARKS:

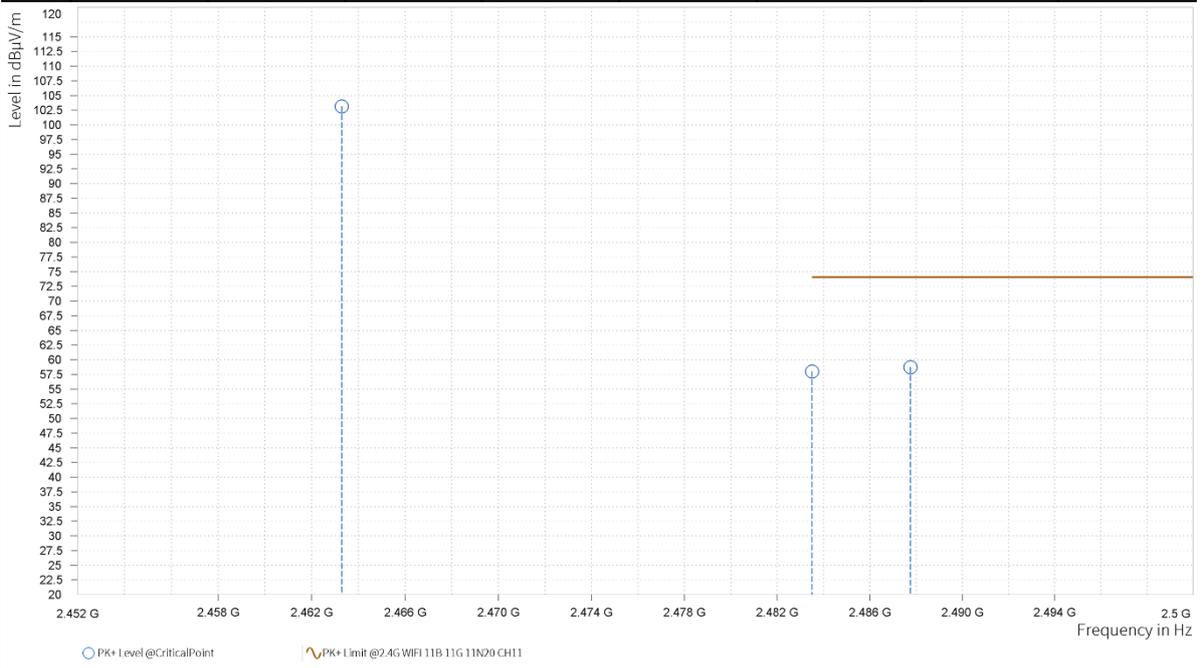
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 2437MHz: Fundamental frequency.



| | | | |
|------------------------|---------------|--------------------------|--------------|
| CHANNEL | TX Channel 13 | DETECTOR FUNCTION | Peak (PK) |
| FREQUENCY RANGE | 1GHz ~ 25GHz | | Average (AV) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

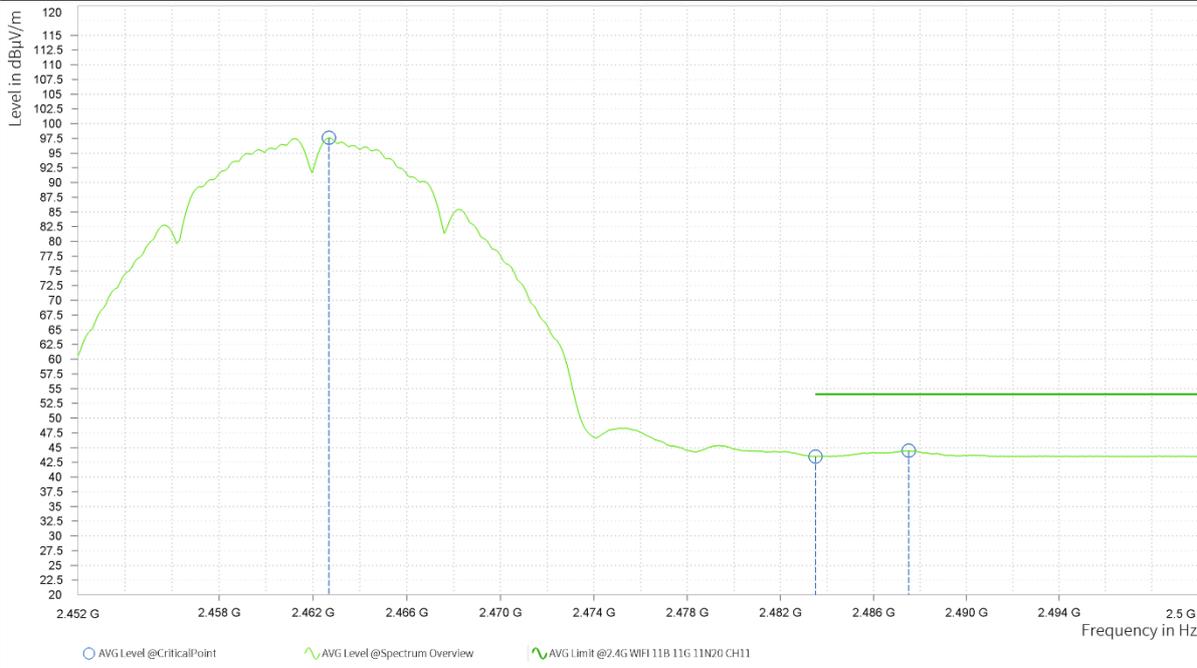
| Rg | Frequency [MHz] | PK+ Level [dBμV/m] | PK+ Limit [dBμV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 2,463.280 | 103.13 | | | 37.83 | H | 164.5 | 2.00 |
| 2 | 2,483.500 | 57.99 | 74.00 | 16.01 | 37.88 | H | 220.6 | 1.00 |
| 2 | 2,487.760 | 58.73 | 74.00 | 15.27 | 37.89 | H | 220.6 | 1.00 |





ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

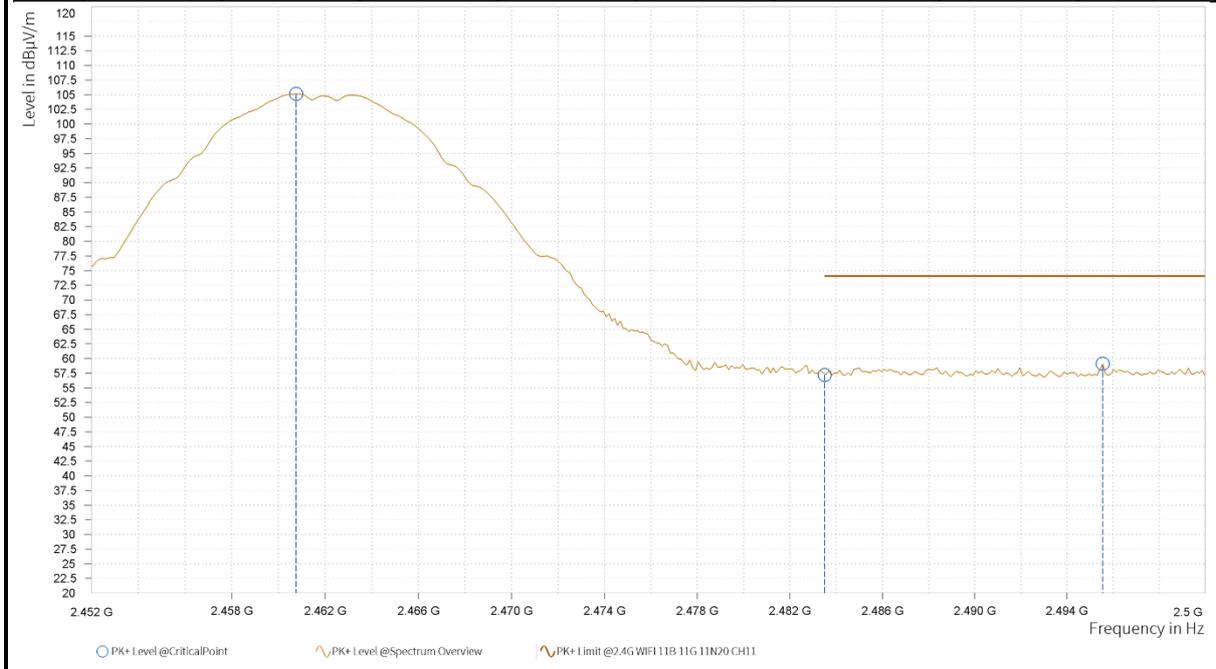
| Rg | Frequency [MHz] | AVG Level [dBμV/m] | AVG Limit [dBμV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 2,462.680 | 97.59 | | | 37.83 | H | 348.6 | 1.00 |
| 2 | 2,483.500 | 43.49 | 54.00 | 10.51 | 37.88 | H | 41.4 | 1.00 |
| 2 | 2,487.520 | 44.45 | 54.00 | 9.55 | 37.89 | H | 41.4 | 1.00 |

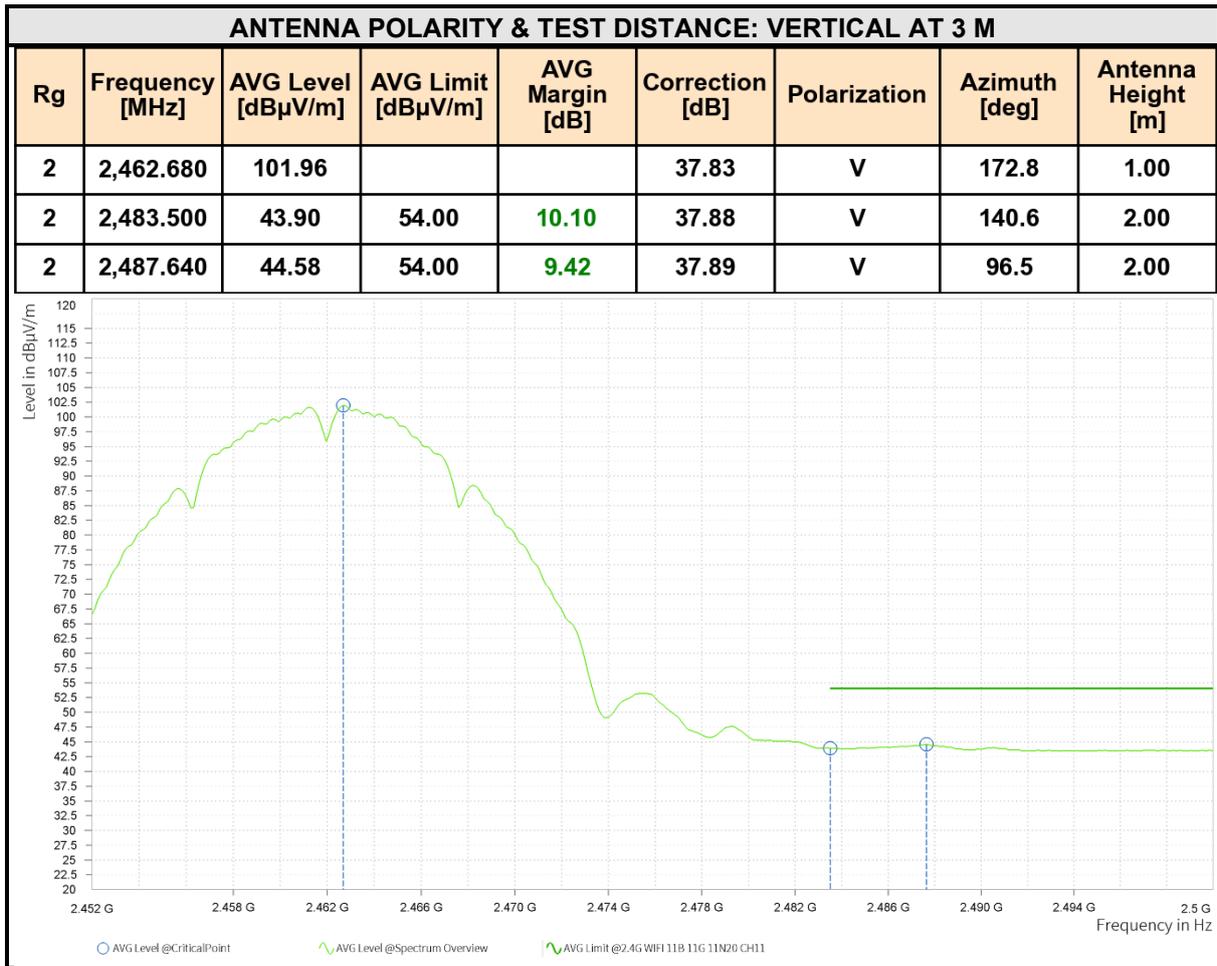




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

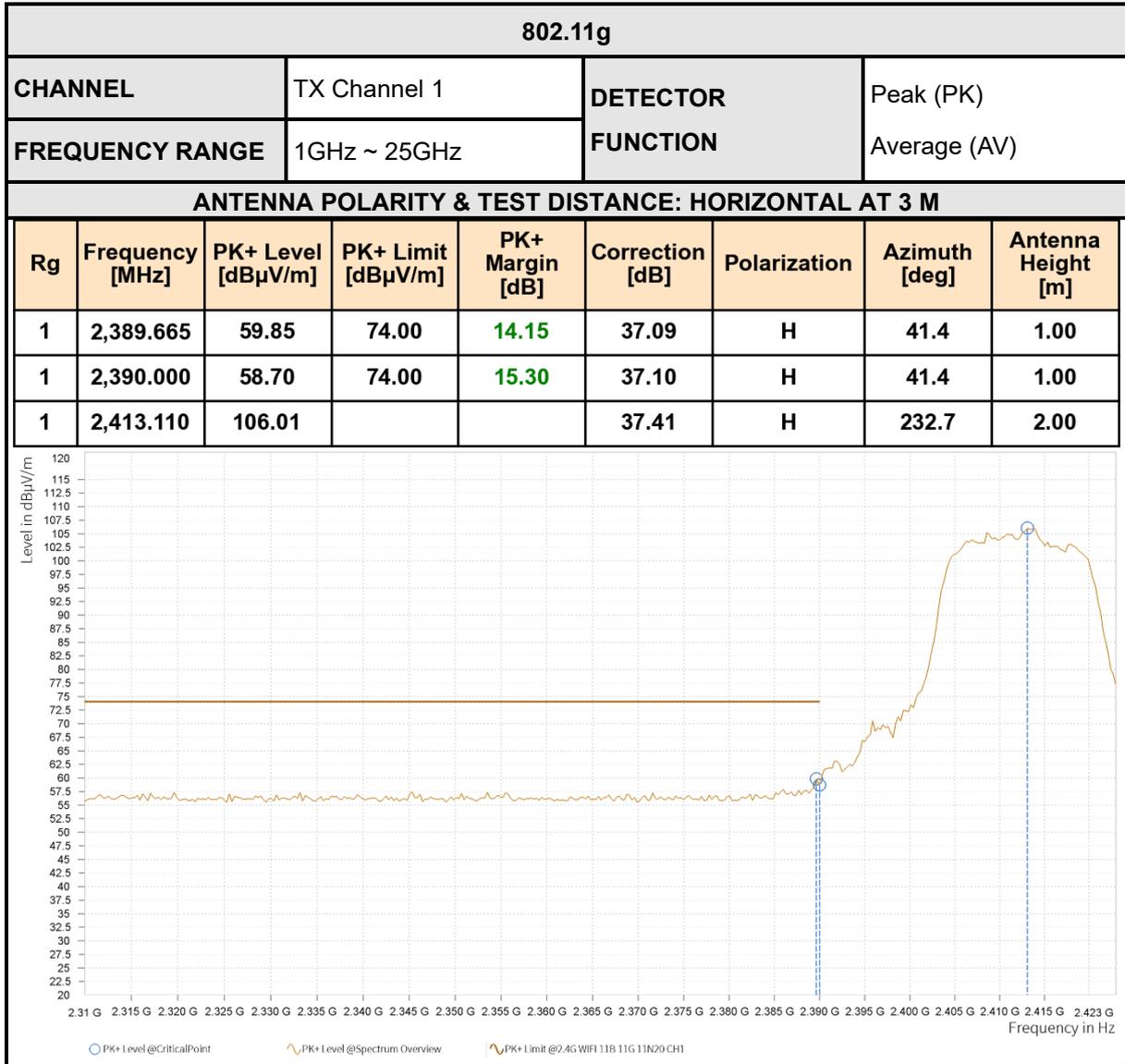
| Rg | Frequency [MHz] | PK+ Level [dBμV/m] | PK+ Limit [dBμV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 2,460.760 | 105.15 | | | 37.82 | V | 43.8 | 1.00 |
| 2 | 2,483.500 | 57.23 | 74.00 | 16.77 | 37.88 | V | 359 | 1.00 |
| 2 | 2,495.560 | 59.09 | 74.00 | 14.91 | 37.90 | V | 0.9 | 2.00 |

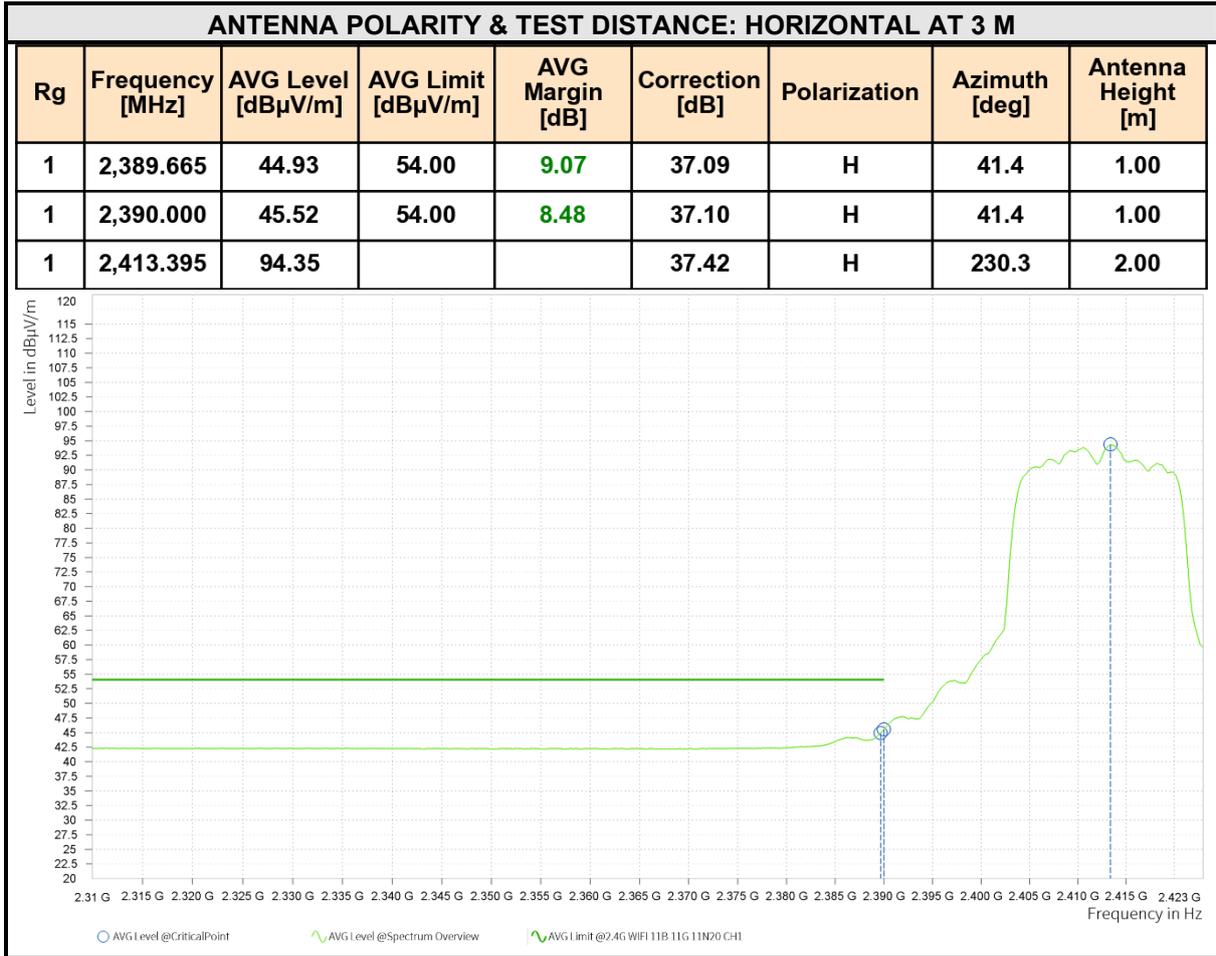




REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 2462MHz: Fundamental frequency.

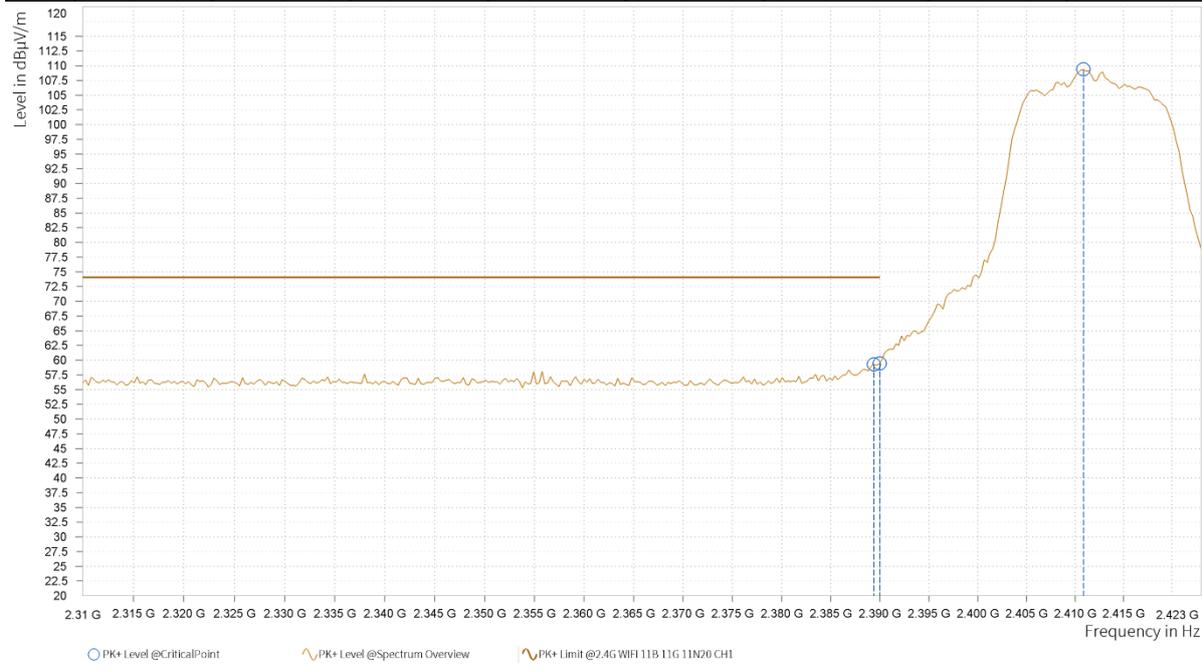


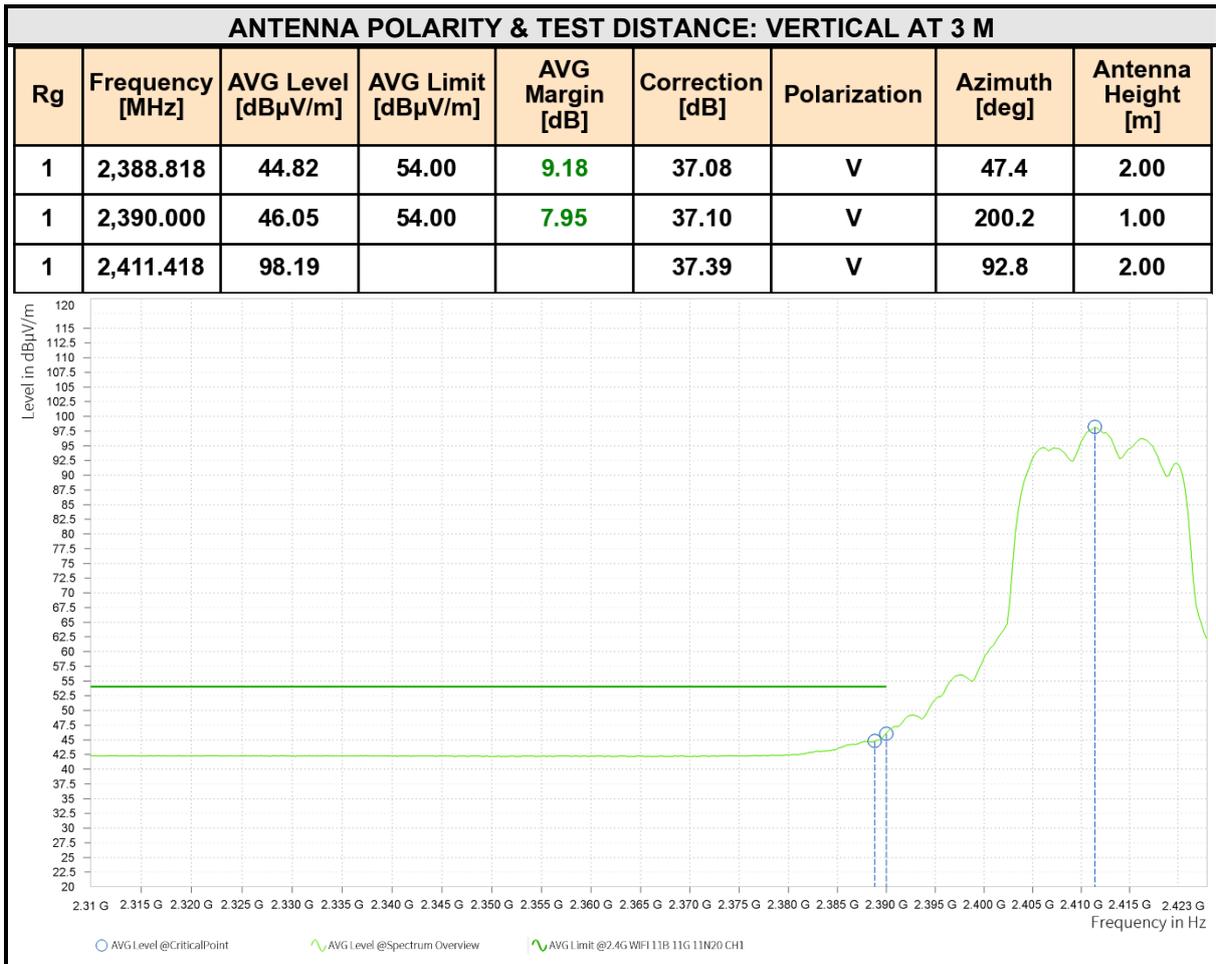




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBμV/m] | PK+ Limit [dBμV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1 | 2,389.383 | 59.30 | 74.00 | 14.70 | 37.09 | V | 54.4 | 2.00 |
| 1 | 2,390.000 | 59.42 | 74.00 | 14.58 | 37.10 | V | 144.1 | 2.00 |
| 1 | 2,410.850 | 109.37 | | | 37.38 | V | 276.8 | 2.00 |





REMARKS:

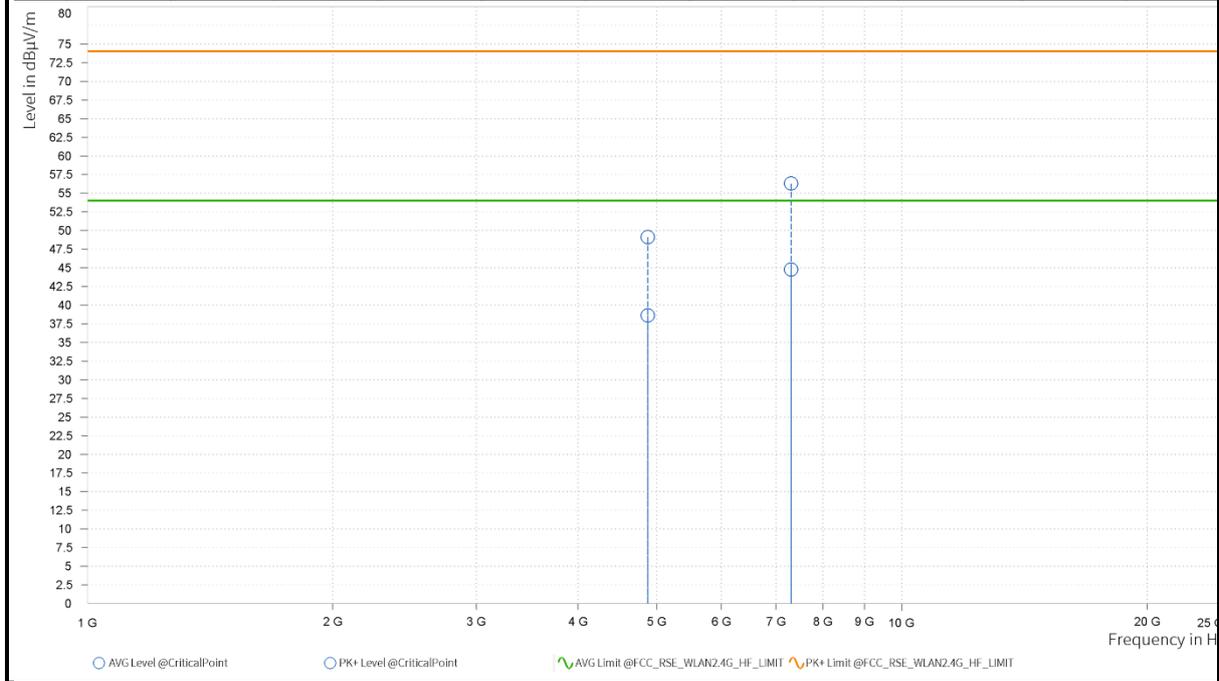
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 2412MHz: Fundamental frequency.

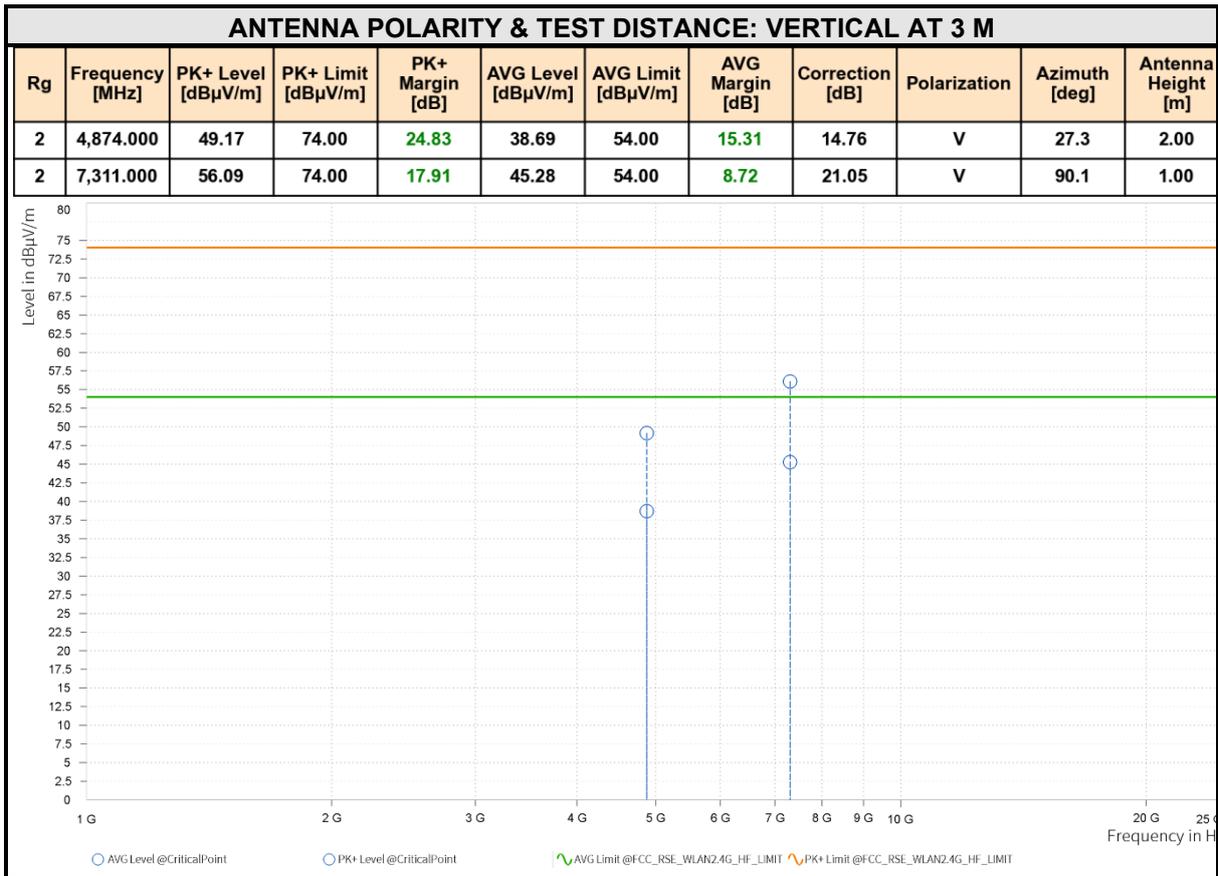


| | | | |
|------------------------|--------------|------------------------------|--------------|
| CHANNEL | TX Channel 6 | DETECTOR FUNCTION | Peak (PK) |
| FREQUENCY RANGE | 1GHz ~ 25GHz | | Average (AV) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBμV/m] | PK+ Limit [dBμV/m] | PK+ Margin [dB] | AVG Level [dBμV/m] | AVG Limit [dBμV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 4,874.000 | 49.11 | 74.00 | 24.89 | 38.61 | 54.00 | 15.39 | 14.76 | H | 1 | 2.00 |
| 2 | 7,311.000 | 56.29 | 74.00 | 17.71 | 44.80 | 54.00 | 9.20 | 21.05 | H | 1 | 2.00 |





REMARKS:

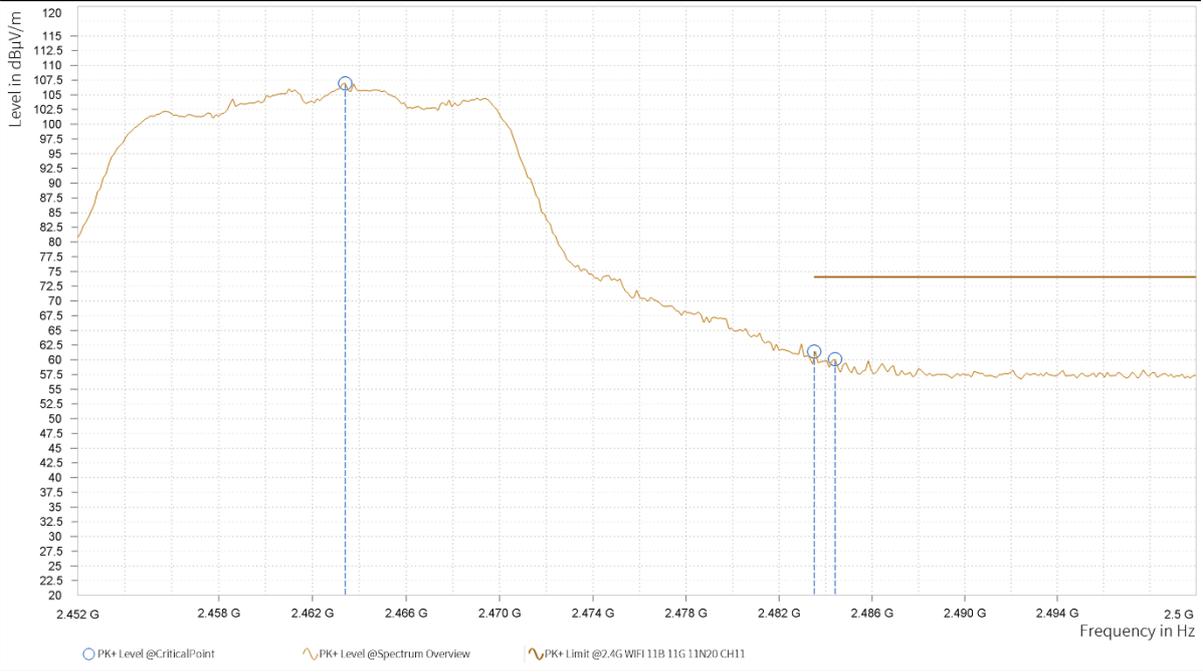
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Limit value- Emission level.
2. 2437MHz: Fundamental frequency.

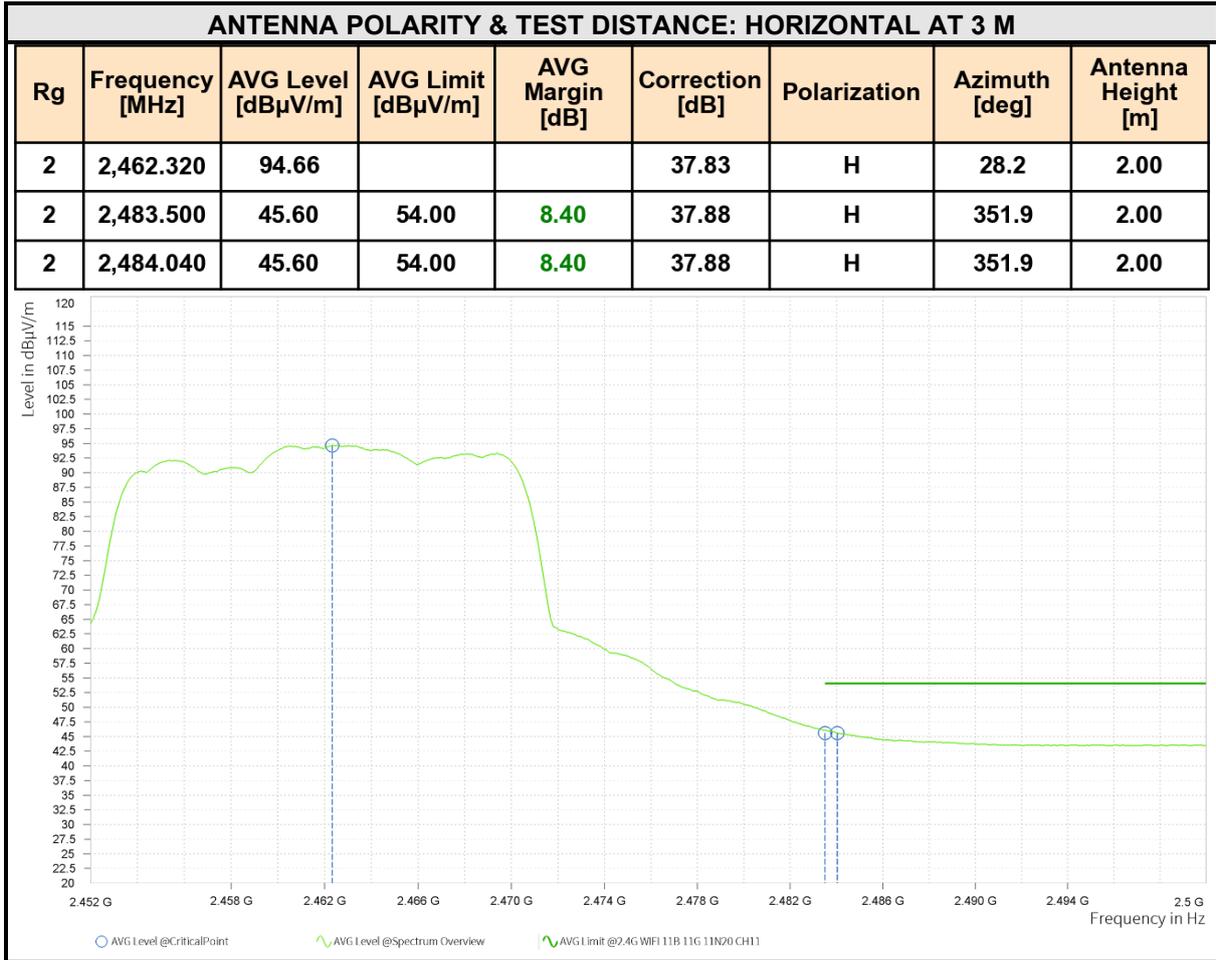


| | | | |
|------------------------|---------------|--------------------------|--------------|
| CHANNEL | TX Channel 11 | DETECTOR FUNCTION | Peak (PK) |
| FREQUENCY RANGE | 1GHz ~ 25GHz | | Average (AV) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 2,463.400 | 106.94 | | | 37.83 | H | 231.5 | 2.00 |
| 2 | 2,483.500 | 61.41 | 74.00 | 12.59 | 37.88 | H | 261.3 | 1.00 |
| 2 | 2,484.400 | 60.10 | 74.00 | 13.90 | 37.88 | H | 355 | 2.00 |

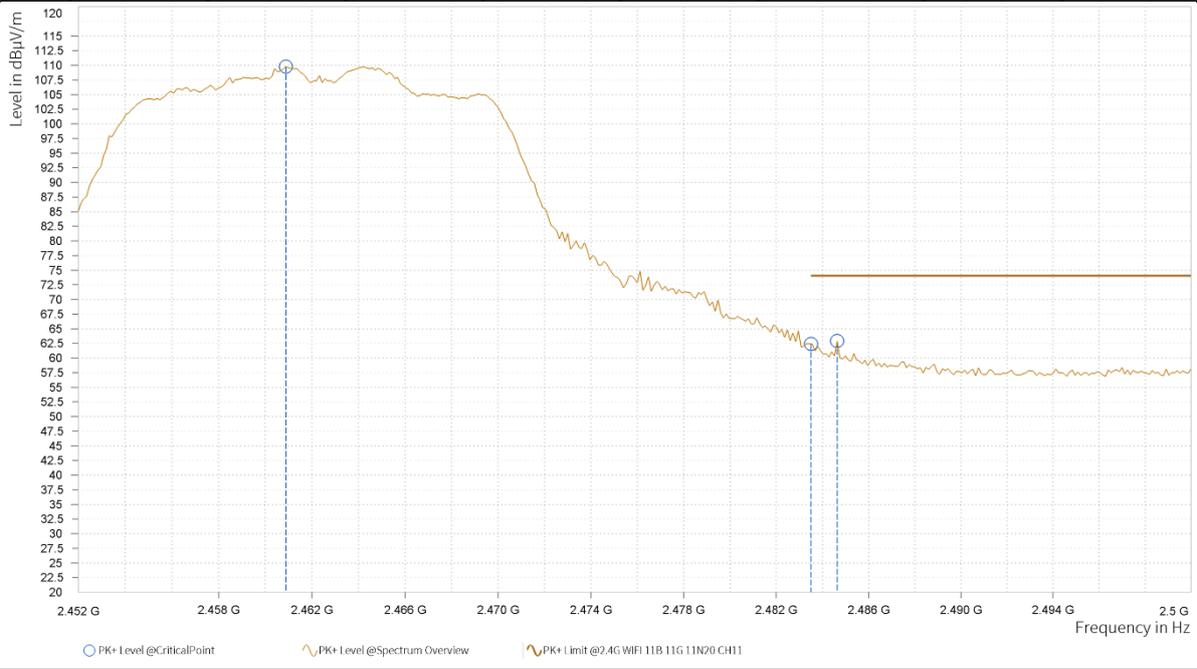


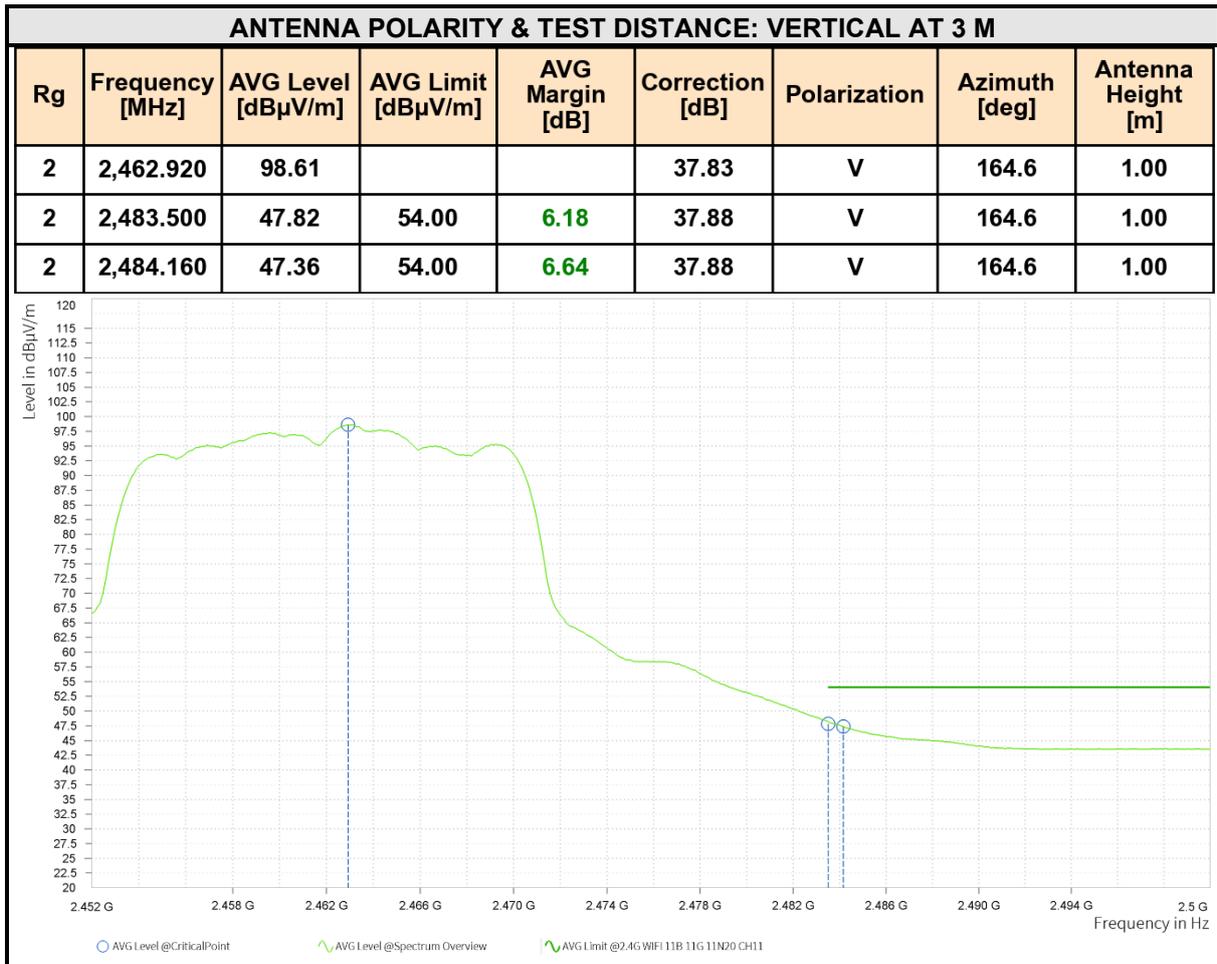




ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBμV/m] | PK+ Limit [dBμV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 2,460.880 | 109.80 | | | 37.82 | V | 219.4 | 1.00 |
| 2 | 2,483.500 | 62.38 | 74.00 | 11.62 | 37.88 | V | 276.8 | 2.00 |
| 2 | 2,484.640 | 62.89 | 74.00 | 11.11 | 37.88 | V | 276.8 | 2.00 |





REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 2462MHz: Fundamental frequency.

