



BUREAU VERITAS

Test Report No.: PSU-NQN2405090215RF06



Certificate #6613.01

# FCC TEST REPORT (Part 15, Subpart C)

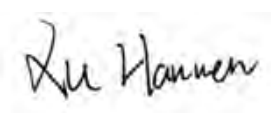
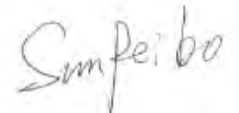
|            |   |
|------------|---|
| Applicant: | HMD Global Oy                             |
| Address:   | Bertel Jungin aukio 9 Espoo 02600 Finland |

|                           |   |
|---------------------------|---|
| Manufacturer or Supplier: | HMD Global Oy                             |
| Address:                  | Bertel Jungin aukio 9 Espoo 02600 Finland |
| Product:                  | Mobile Phone                              |
| Brand Name:               | HMD                                       |
| Model Name:               | TA-1606                                   |
| FCC ID:                   | 2AJOTTA-1606                              |
| Date of tests:            | May. 14, 2024 ~ Jun. 13, 2024             |

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

- FCC Part 15, Subpart C, Section 15.247
- ANSI C63.10-2013

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

|  |  |
|--|--|
| Prepared by Hanwen Xu<br>Engineer / Mobile Department  | Approved by Peibo Sun<br>Manager / Mobile Department   |
| <br>Date: Jun. 13, 2024 | <br>Date: Jun. 13, 2024 |

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## **TABLE OF CONTENTS**

|  |           |
|--|-----------|
| <b>RELEASE CONTROL RECORD .....</b>                          | <b>5</b>  |
| <b>1 SUMMARY OF TEST RESULTS.....</b>                        | <b>6</b>  |
| 1.1 MEASUREMENT UNCERTAINTY .....                            | 7         |
| <b>2 GENERAL INFORMATION .....</b>                           | <b>8</b>  |
| 2.1 GENERAL DESCRIPTION OF EUT .....                         | 8         |
| 2.2 DESCRIPTION OF TEST MODES .....                          | 12        |
| 2.2.1 CONFIGURATION OF SYSTEM UNDER TEST .....               | 13        |
| 2.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL..... | 13        |
| 2.3 DUTY CYCLE OF TEST SIGNAL .....                          | 17        |
| 2.4 GENERAL DESCRIPTION OF APPLIED STANDARDS .....           | 18        |
| 2.5 DESCRIPTION OF SUPPORT UNITS .....                       | 18        |
| <b>3 TEST TYPES AND RESULTS.....</b>                         | <b>19</b> |
| 3.1 CONDUCTED EMISSION MEASUREMENT .....                     | 19        |
| 3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT .....         | 19        |
| 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 .....                                  | 26        |
| 3.2.4 DEVIATION FROM TEST STANDARD .....                     | 26        |
| 3.2.5 TEST SETUP .....                                       | 27        |
| 3.2.6 EUT OPERATING CONDITIONS .....                         | 28        |
| 3.2.7 TEST RESULTS .....                                     | 29        |
| 3.3 6 dB BANDWIDTH MEASUREMENT .....                         | 113       |
| 3.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT .....              | 113       |
| 3.3.2 TEST INSTRUMENTS.....                                  | 113       |
| 3.3.3 TEST PROCEDURE.....                                    | 114       |
| 3.3.4 DEVIATION FROM TEST STANDARD .....                     | 114       |



|          |  |            |
|----------|--|------------|
| 3.3.5    | TEST SETUP .....   | 114        |
| 3.3.6    | EUT OPERATING CONDITIONS .....   | 114        |
| 3.3.7    | TEST RESULTS .....   | 115        |
| 3.4      | CONDUCTED OUTPUT POWER.....  | 116        |
| 3.4.1    | LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT .....                           | 116        |
| 3.4.2    | TEST SETUP .....   | 116        |
| 3.4.3    | TEST INSTRUMENTS.....  | 116        |
| 3.4.4    | TEST PROCEDURES .....  | 116        |
| 3.4.5    | DEVIATION FROM TEST STANDARD .....   | 116        |
| 3.4.6    | EUT OPERATING CONDITIONS .....   | 116        |
| 3.4.7    | TEST RESULTS .....   | 117        |
| 3.4.7.1  | MAXIMUM PEAK OUTPUT POWER .....  | 117        |
| 3.4.7.2  | Average Output Power (FOR REFERENCE).....                                    | 118        |
| 3.5      | POWER SPECTRAL DENSITY MEASUREMENT .....                                     | 119        |
| 3.5.1    | LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT .....                           | 119        |
| 3.5.2    | TEST SETUP .....   | 119        |
| 3.5.3    | TEST INSTRUMENTS.....  | 119        |
| 3.5.4    | TEST PROCEDURE.....  | 119        |
| 3.5.5    | DEVIATION FROM TEST STANDARD .....   | 119        |
| 3.5.6    | EUT OPERATING CONDITION .....  | 119        |
| 3.5.7    | TEST RESULTS .....   | 120        |
| 3.6      | OUT OF BAND EMISSION MEASUREMENT .....                                       | 121        |
| 3.6.1    | LIMITS OF OUT OF BAND EMISSION MEASUREMENT .....                             | 121        |
| 3.6.2    | TEST SETUP .....   | 121        |
| 3.6.3    | TEST INSTRUMENTS.....  | 121        |
| 3.6.4    | TEST PROCEDURE.....  | 121        |
| 3.6.5    | DEVIATION FROM TEST STANDARD .....   | 122        |
| 3.6.6    | EUT OPERATING CONDITION .....  | 122        |
| 3.6.7    | TEST RESULTS .....   | 122        |
| 3.7      | ANTENNA REQUIREMENTS.....  | 123        |
| 3.7.1    | STANDARD APPLICABLE .....  | 123        |
| 3.7.2    | ANTENNA CONNECTED CONSTRUCTION.....  | 123        |
| 3.7.3    | ANTENNA GAIN .....   | 123        |
| <b>4</b> | <b>PHOTOGRAPHS OF THE TEST CONFIGURATION .....</b>                           | <b>124</b> |
| <b>5</b> | <b>MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB</b> | <b>125</b> |



**BUREAU  
VERITAS**

**Test Report No.: PSU-NQN2405090215RF06**

|          |                             |            |
|----------|-----------------------------|------------|
| <b>6</b> | <b>APPENDIX 1 WLAN.....</b> | <b>126</b> |
| <b>7</b> | <b>APPENDIX 2 BLE .....</b> | <b>168</b> |



**BUREAU  
VERITAS**

Test Report No.: PSU-NQN2405090215RF06

## RELEASE CONTROL RECORD

| ISSUE NO.             | REASON FOR CHANGE | DATE ISSUED   |
|-----------------------|-------------------|---------------|
| PSU-NQN2405090215RF06 | Original release  | Jun. 13, 2024 |



# 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<br>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 : 1. Except RSE, other data please refer to Appendix 1 (for WIFI-2.4G) and Appendix 2 (for BLE).

### \*Test Lab Information Reference

**Lab A:**

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

**Lab Address:**

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

**Accredited Test Lab Cert 6613.01**

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

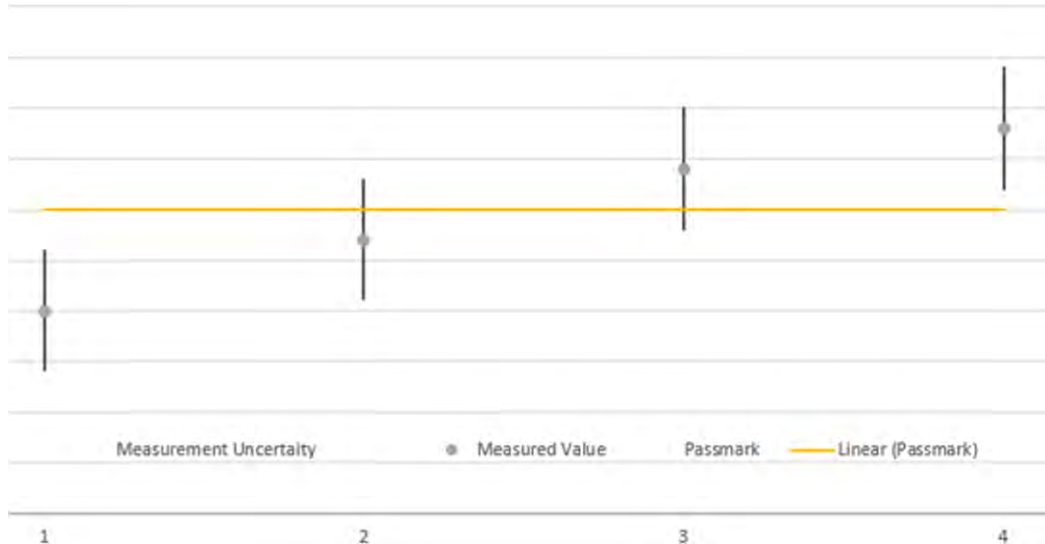


### 1.1 MEASUREMENT UNCERTAINTY

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

### 2.1 GENERAL DESCRIPTION OF EUT

|                            |  |
|----------------------------|--|
| <b>PRODUCT*</b>            | Mobile Phone   |
| <b>BRAND NAME*</b>         | HMD  |
| <b>MODEL NAME*</b>         | TA-1606  |
| <b>NOMINAL VOLTAGE*</b>    | 5.0 or 9.0 or 12.0 Vdc (adapter)<br>3.87Vdc (battery)  |
| <b>MODULATION *</b>        | DSSS, OFDM, GFSK   |
| <b>TRANSMISSION RATE</b>   | 802.11b: 11/ 5.5/ 2.0 / 1.0 Mbps<br>802.11g: 54/ 48/ 36 / 24 / 18 / 9/ 6 Mbps<br>802.11n20: up to 144.4 Mbps<br>802.11n40: up to 300 Mbps<br>BT_LE: 0.125 Mbps /0.5 Mbps /1 Mbps/2 Mbps  |
| <b>OPERATING FREQUENCY</b> | 2412-2462MHz for 11b/g/n(HT20/40)<br>2402-2480MHz for BT-LE(GFSK)  |
| <b>MAX. OUTPUT POWER</b>   | WLAN: 260.20mW (Maximum)<br>BT-LE: 1.79 mW (Maximum)   |
| <b>ANTENNA TYPE*</b>       | PIFA Antenna with 1.44dBi gain for BT/WIFI   |
| <b>HW VERSION*</b>         | V00  |
| <b>SW VERSION*</b>         | V0.019_A01   |
| <b>I/O PORTS*</b>          | Refer to user's manual   |
| <b>CABLE SUPPLIED*</b>     | USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter<br>USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter<br>USB cable3: non-shielded cable, with w/o ferrite core, 1.0 meter<br>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 SISO function. Physically, the EUT provides one transmitter and one receiver.

| <b>MODULATION MODE</b> | <b>TX/RX FUNCTION</b> |
|------------------------|-----------------------|
| <b>802.11b</b>         | 1TX /1RX              |
| <b>802.11g</b>         | 1TX /1RX              |
| <b>802.11n (20MHz)</b> | 1TX /1RX              |
| <b>802.11n (40MHz)</b> | 1TX /1RX              |
| <b>BT_LE(1MHz)</b>     | 1TX /1RX              |
| <b>BT_LE(2MHz)</b>     | 1TX /1RX              |
| <b>BT_LE(S2)</b>       | 1TX /1RX              |
| <b>BT_LE(S8)</b>       | 1TX /1RX              |

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



**BUREAU VERITAS** Test Report No.: PSU-NQN2405090215RF06

5. For the product of TA-1606 (FCC ID: 2AJOTTA-1606), the following components are different between the first and second supply, other parameters are the same.

| Key Component List |                             |             |              |                                    |               |                                    |
|--------------------|-----------------------------|-------------|--------------|------------------------------------|---------------|------------------------------------|
| No.                | Component                   | Description | First supply |                                    | Second supply |                                    |
|                    |                             |             | SUPPLIER     | Spec                               | SUPPLIER      | Spec                               |
| 1                  | NMOS                        | PCBA        | PRISEMI      | PNM3FD20V2                         | JSCJ          | CJBA3134K                          |
| 2                  | E-compass                   |             | MEMSIC       | MMCS603NJ                          | QST           | QMC6308-TR                         |
| 3                  | Memory-256GB                |             | FORESEE      | FEUDNN256G-C2G07                   | BIWIN         | BWU2ASV46A256G                     |
| 4                  | Memory-64GB                 |             | FORESEE      | FLXC4008G-30                       | BIWIN         | BWMZCX32H2A-64G-X                  |
| 5                  | nano-SIM                    |             | LCN          | CAF99-06033-0305                   | HRD           | S186-1B01F13F                      |
| 6                  | T-card                      |             | LCN          | CAF11-08136-031901                 | HRD           | S186-1B02F13F                      |
| 7                  | iron covering               |             | LCN          | CAF00-21134-032307                 | HRD           | S186-2B21F13F-1                    |
| 8                  | Type C connector            |             | LETCON       | 15-16815-110                       | LCN           | UAF05-16323-3007                   |
| 9                  | headphone socket            |             | LETCON       | 11-058126A                         | HRD           | PH157-0B12F36M                     |
| 10                 | G sensor                    |             | slan         | 2*2 12bit                          | sensortek     | 2*2 12bit                          |
| 11                 | Proximity light sensor      |             | Liteon       | LTR-569ALS-02                      | sensortek     | STK3335-X                          |
| 12                 | Backlight driver            |             | AWINIC       | dfn2*2-6L                          | broadchip     | dfn2*2-6L                          |
| 13                 | Flash driver                |             | AWINIC       | 2A DCDC                            | OCS           | 2A DCDC                            |
| 14                 | CKDID baschip               |             | AWINIC       | ±5V                                | OCS           | ±5V                                |
| 15                 | overvoltage protection chip |             | broadchip    | 6.8V FCQFN12                       | AWINIC        | 6.8V FCQFN12                       |
| 16                 | CKD BDS/GPS/GAL LNA         |             | SILICONWAVE  | LNA 1.5*1.0 6pin                   | AWINIC        | LNA 1.5*1.0 6pin                   |
| 17                 | MIC                         |             | GETTOP       | 2.75*1.85*0.9mm                    | YUTAI         | 2.75*1.85*0.9mm                    |
| 18                 | LCM                         | LCD         | HUAXIAN      | incell5.56HD+                      | DZX           | incell5.56HD+                      |
| 19                 | Macro cam                   | camera      | CXT          | 2M CSP                             | lianhe        | 2M CSP                             |
| 20                 | Finger print                | module      | SYX          | side fingerprint                   | SHENAO        | side fingerprint                   |
| 21                 | Battery                     |             | GAOYUAN      | Rated: 4900mAh<br>Typical: 5000mAh | FENGHUA       | Rated: 4900mAh<br>Typical: 5000mAh |
| 22                 | Receiver                    |             | SENNOR       | '0809                              | TUNESS        | '0809                              |
| 23                 | Vibrator                    |             | JX           | 0830 3.35mm                        | JD            | 0830 3.35mm                        |
| 24                 | Charger US                  |             | BJD          | 5V 2A                              | JUWEI         | 5V 2A                              |
| 25                 | Data cable                  |             | JUWEI        | A-C                                | FKY           | A-C                                |
|                    |                             |             | JUWEI        | C-C                                | FKY           | C-C                                |



**List of Accessory:**

| ACCESSORIES  | BRAND | MANUFACTURER                          | MODEL                | SPECIFICATION   |
|--------------|-------|---------------------------------------|----------------------|---|
| Battery 1    | HMD   | Gaoyuan                               | HBA5020AA            | Power Rating: 3.87 Vdc;18.963 Wh;4900 mAh   |
| Battery 2    | HMD   | Fenghua                               | HBA5020AA            | Power Rating: 3.87 Vdc;18.963 Wh;4900 mAh   |
| AC Adapter 1 | HMD   | Shenzhen Baijunda Electronics Co.,Ltd | HAD-020U(US-P D 20W) | I/P: 100-240 V,50~60Hz,0.6A<br>O/P: USB-C Output:5.0V 3.0A or 9.0V 2.22A or 12.0V 1.67A 20.0W Max |
| AC Adapter 2 | HMD   | Shenzhen Baijunda Electronics Co.,Ltd | HAD-010U(US)         | I/P: 100-240 V,50~60Hz,0.35A<br>O/P: 5V 2A,10W  |
| AC Adapter 3 | HMD   | Huizhou Juwei Electronics Co., Ltd.   | HAD-010U(US)         | I/P: 100-240 V,50~60Hz,0.35A<br>O/P: 5V 2A,10W  |
| Earphone     | HMD   | N/A                                   | JWEP1266-H24H        | N/A   |
| USB Cable 1  | HMD   | JUWEI                                 | JWUB1684-M01H        | A to C  |
| USB Cable 2  | HMD   | JUWEI                                 | JWUB1688-M01H        | C to C  |
| USB Cable 3  | HMD   | FUKANGYUAN                            | FKY-23-368           | A to C  |
| USB Cable 4  | HMD   | FUKANGYUAN                            | FKY-23-369           | C to C  |



## 2.2 DESCRIPTION OF TEST MODES

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

| 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):

| 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  |         |           |

40 channels are provided for BT-LE (GFSK):

| CHANNEL | FREQ. (MHZ) | CHANNEL | FREQ. (MHZ) | CHANNEL | FREQ. (MHZ) | 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 5 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).
- Following channel(s) was (were) selected for the final test as listed below.

| MODE         | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
|--------------|-------------------|----------------|------------|------------------|
| 802.11n HT40 | 3 to 9            | 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).

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              |
| 802.11n HT20 | 1 to 11           | 1, 6, 11       | OFDM       | MCS0             |
| 802.11n HT40 | 3 to 9            | 3,6,9          | OFDM       | 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).

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

| MODE       | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
|------------|-------------------|----------------|------------|------------------|
| 802.11n 40 | 3 to 9            | 3              | 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).
- 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              |
| 802.11n HT20 | 1 to 11           | 1, 6, 11       | OFDM       | MCS0             |
| 802.11n HT40 | 3 to 9            | 3,6,9          | OFDM       | 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).
- 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              |
| 802.11n HT20 | 1 to 11           | 1, 6, 11       | OFDM       | MCS0             |
| 802.11n HT40 | 3 to 9            | 3,6,9          | OFDM       | 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:**

| <b>APPLICABLE TO</b> | <b>ENVIRONMENTAL CONDITIONS</b> | <b>TEST VOLTAGE</b> | <b>TESTED BY</b> |
|----------------------|---------------------------------|---------------------|------------------|
| <b>RE&lt;1G</b>      | 23deg. C, 70%RH                 | DC 5V By Adapter    | Hanwen Xu        |
| <b>RE≥1G</b>         | 23deg. C, 70%RH                 | DC 5V By Adapter    | Hanwen Xu        |
| <b>PLC</b>           | 25deg. C, 52%RH                 | DC 5V By Adapter    | Hanwen Xu        |
| <b>APCM</b>          | 25deg. C, 60%RH                 | DC 3.87V By Battery | Hanwen Xu        |





### 2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix1/2 Of this test report.

**WORST-CASE DATA:**

| Measured Duty Cycle |        |                |
|---------------------|--------|----------------|
| Mode                |        | Duty Cycle [%] |
|                     |        | ANT            |
| WIFI 2.4GHz         | 11B    | 97.85          |
|                     | 11G    | 88.33          |
|                     | 11N20  | 96.24          |
|                     | 11N40  | 73.43          |
| BT LE               | BLE_1M | 87.43          |
|                     | BLE_2M | 66.04          |
|                     | BLE-S2 | 81.25          |
|                     | BLE_S8 | 94.61          |

**Note:**

Duty cycle of test signal is < 98%, duty factor shall be considered.



## 2.4 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 C63.10-2013**

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.

## 2.5 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 | HRSW00024  | N/A    |
| 2   | Adapter | N/A    | N/A          | N/A        | N/A    |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1   | N/A   |



### 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 $\mu$ 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. |
|-----------------------|---------------|-----------|------------|-----------|-----------|
| EMI Test Receiver     | Rohde&Schwarz | ESR3      | 102749     | Feb.25,24 | Feb.24,26 |
| ELEKTRA test software | Rohde&Schwarz | ELEKTRA   | NA         | N/A       | N/A       |
| LISN network          | Rohde&Schwarz | ENV216    | 102640     | Feb.17,24 | Feb.16,26 |
| CABLE                 | Rohde&Schwarz | W61.01    | N/A        | Apr.28,24 | Apr.27,25 |
| CABLE                 | Rohde&Schwarz | W601      | N/A        | Apr.28,24 | Apr.27,25 |

- NOTE:**
1. The test was performed in CE shielded room.
  2. The calibration interval of the above test instruments is 12 months or 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.

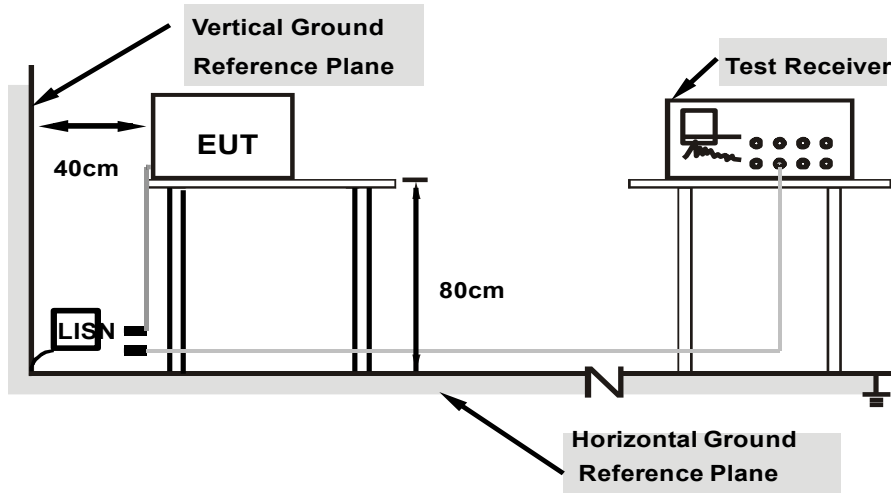
**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

### 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.



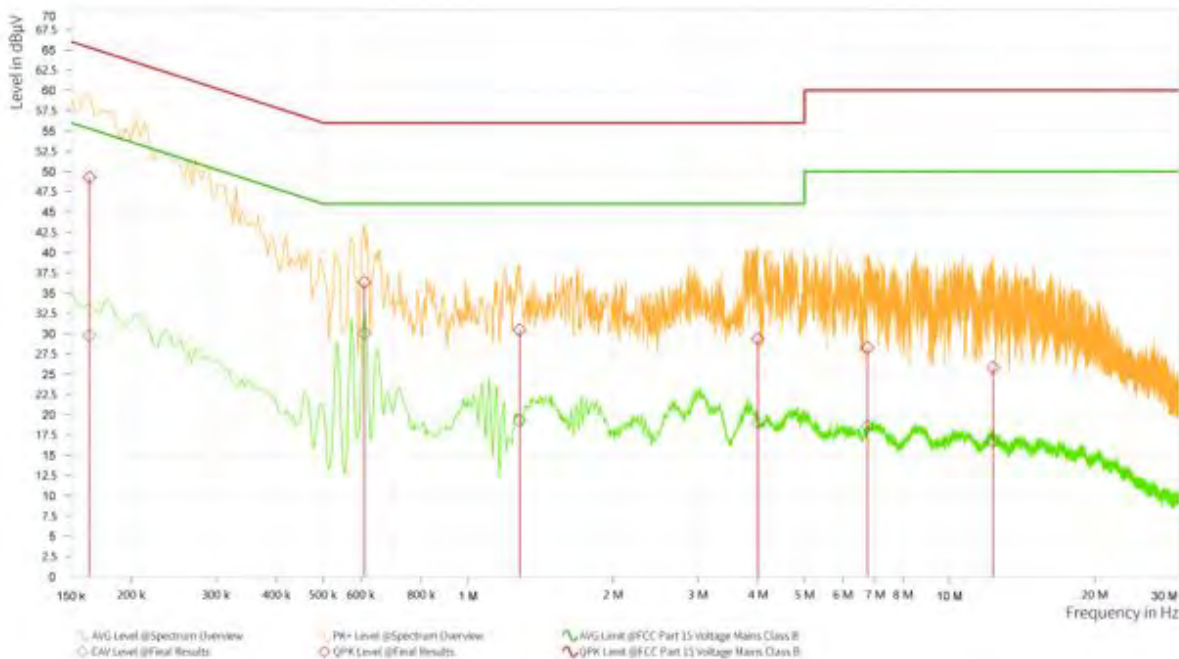
### 3.1.7 TEST RESULTS

#### CONDUCTED WORST-CASE DATA:

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

| Re | Frequency [MHz] | QPK Level [dBuV] | QPK Limit [dBuV] | QPK Margin [dB] | CAV Level [dBuV] | CAV: AVG Limit [dBuV] | CAV Margin [dB] | Correction [dB] | Line | Meas. BW [kHz] |
|----|-----------------|------------------|------------------|-----------------|------------------|-----------------------|-----------------|-----------------|------|----------------|
| 1  | 0.164           | 49.27            | 65.28            | 16.01           | 29.74            | 55.28                 | 25.54           | 12.41           | L1   | 9.000          |
| 1  | 0.609           | 36.32            | 56.00            | 19.68           | 30.06            | 46.00                 | 15.94           | 11.74           | L1   | 9.000          |
| 1  | 1.280           | 30.46            | 56.00            | 25.54           | 19.30            | 46.00                 | 26.70           | 11.75           | L1   | 9.000          |
| 1  | 3.998           | 29.35            | 56.00            | 26.65           | 18.97            | 46.00                 | 27.03           | 11.78           | L1   | 9.000          |
| 1  | 6.752           | 28.24            | 60.00            | 31.76           | 18.52            | 50.00                 | 31.48           | 11.80           | L1   | 9.000          |
| 1  | 12.305          | 25.82            | 60.00            | 34.18           | 16.74            | 50.00                 | 33.26           | 11.84           | 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.





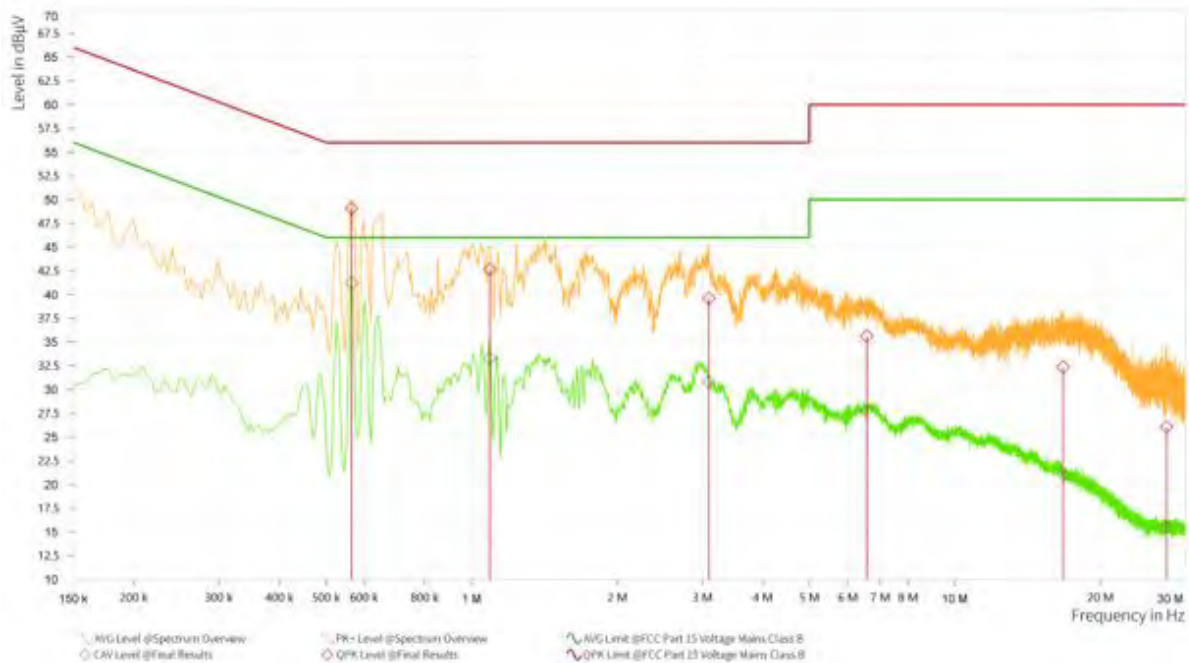
**BUREAU  
VERITAS**

**Test Report No.: PSU-NQN2405090215RF06**

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

| Rg | Frequency [MHz] | QPK Level [dBuV] | QPK Limit [dBuV] | QPK Margin [dB] | CAV Level [dBuV] | CAV: AVG Limit [dBuV] | CAV Margin [dB] | Correction [dB] | Line | Meas. BW [kHz] |
|----|-----------------|------------------|------------------|-----------------|------------------|-----------------------|-----------------|-----------------|------|----------------|
| 1  | 0.564           | 49.07            | 56.00            | 6.93            | 41.21            | 46.00                 | 4.79            | 12.77           | N    | 9.000          |
| 1  | 1.091           | 42.66            | 56.00            | 13.34           | 33.30            | 46.00                 | 12.70           | 12.73           | N    | 9.000          |
| 1  | 3.098           | 39.61            | 56.00            | 16.39           | 30.80            | 46.00                 | 15.20           | 12.75           | N    | 9.000          |
| 1  | 6.572           | 35.61            | 60.00            | 24.39           | 27.69            | 50.00                 | 22.31           | 12.77           | N    | 9.000          |
| 1  | 16.769          | 32.36            | 60.00            | 27.64           | 21.05            | 50.00                 | 28.95           | 12.83           | N    | 9.000          |
| 1  | 27.447          | 26.08            | 60.00            | 33.92           | 15.54            | 50.00                 | 34.46           | 12.88           | 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.30,22 | Aug.29,24 |
| Pre-Amplifier                      | R&S                     | SCU08F1          | 101028                 | Sep.16,22 | Sep.15,24 |
| Signal Generator                   | R&S                     | SMB100A          | 182185                 | Feb.16,24 | Feb.15,26 |
| 3m Fully-anechoic Chamber          | TDK                     | 9m*6m*6m         | HRSW-SZ-E MC-01Chamber | Nov.25,22 | Nov.24,25 |
| 3m Semi-anechoic Chamber           | TDK                     | 9m*6m*6m         | HRSW-SZ-E MC-02Chamber | Nov.25,22 | Nov.24,25 |
| EMI TEST Receiver                  | R&S                     | ESW44            | 101973                 | Feb.25,24 | Feb.24,26 |
| Bilog Antenna                      | SCHWARZBECK             | VULB 9163        | 1264                   | Feb.28,24 | Feb.27,26 |
| Horn Antenna                       | ETS-LINDGREN            | 3117             | 227836                 | Aug.22,22 | Aug.21,24 |
| Horn Antenna (18GHz-40GHz)         | Steatite Q-par Antennas | QMS 00880        | 23486                  | Feb.23,24 | Feb.22,26 |
| Horn Antenna                       | Steatite Q-par Antennas | QMS 00208        | 23485                  | Aug.22,22 | Aug.21,24 |
| Loop Antenna                       | SCHWARZ                 | HFH2-Z2/Z2E      | 100976                 | Feb.23,24 | Feb.22,26 |
| WIDEBANDRADIO COMMUNICATION TESTER | R&S                     | CMW500           | 169399                 | Jun.27,22 | Jun.26,24 |
| 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.31,22 | Aug.30,24 |
| Hygrothermograph                   | DELI                    | 20210528         | SZ014                  | Sep.06,22 | Sep.05,24 |
| 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.28,24 | Apr.27,25 |
| CABLE                              | R&S                     | W12.14           | N/A                    | Apr.28,24 | Apr.27,25 |

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 24 months or 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.

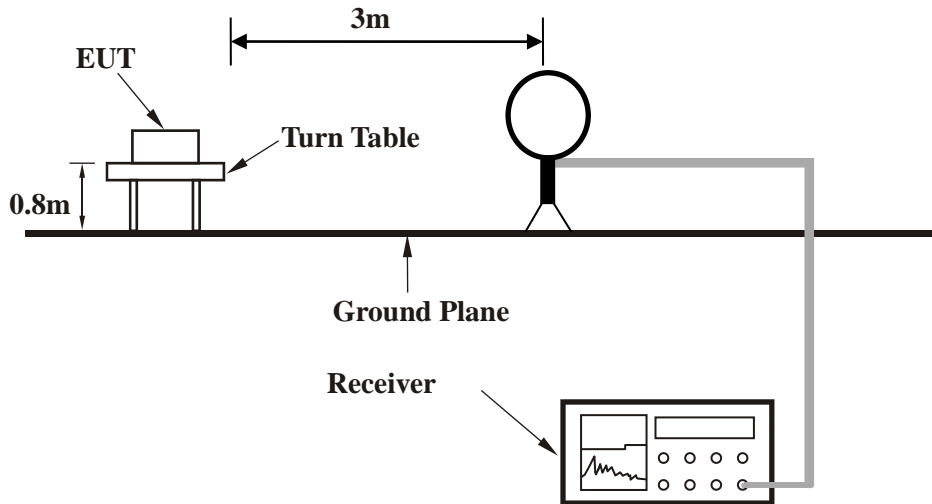
### 3.2.4 DEVIATION FROM TEST STANDARD

No deviation

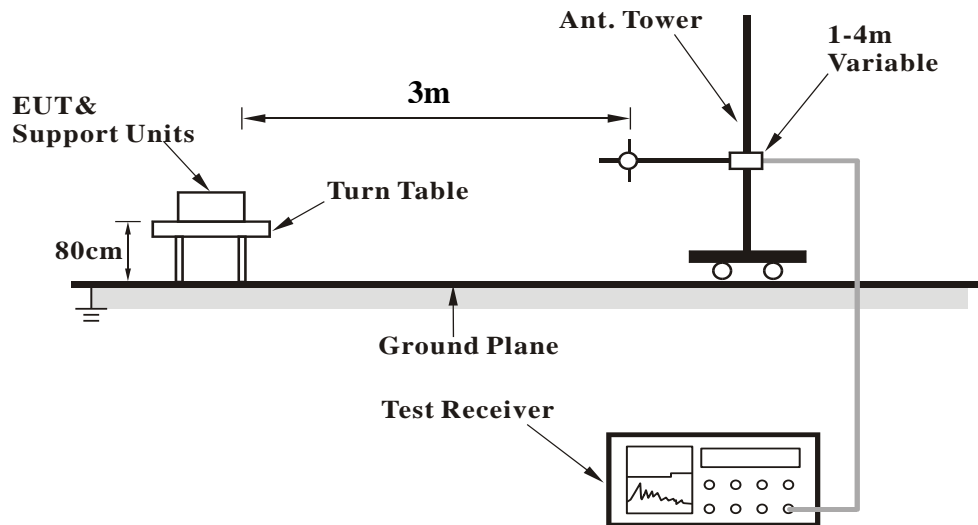


### 3.2.5 TEST SETUP

#### <Frequency Range 9KHz~30MHz >

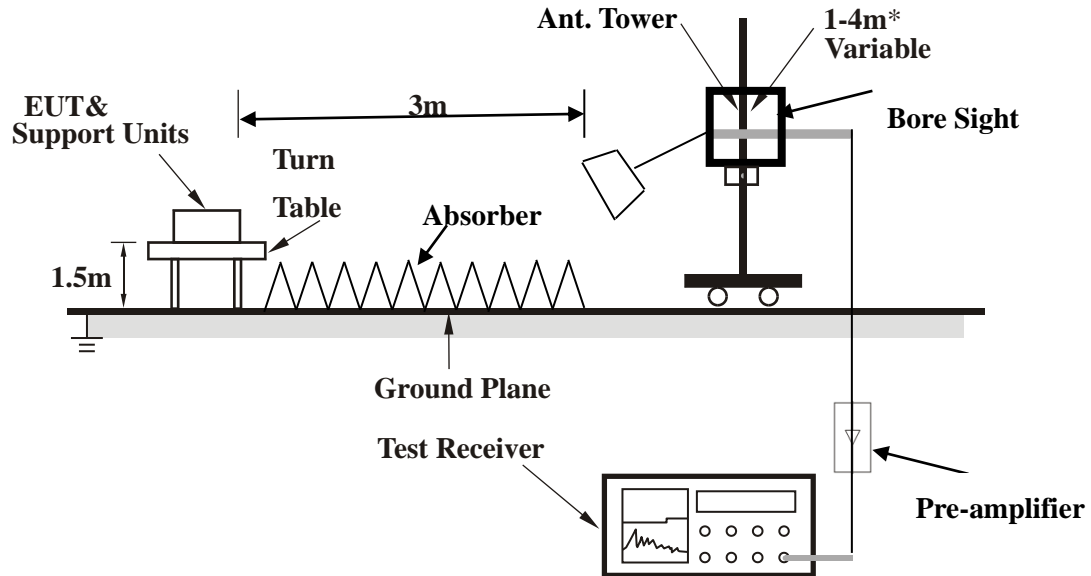


#### < Frequency Range 30MHz~1GHz >





**<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

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



**3.2.7 TEST RESULTS**

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

**BELOW 1GHz WORST-CASE DATA:**

**30 MHz – 1GHz data:**

**802.11n40:**

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

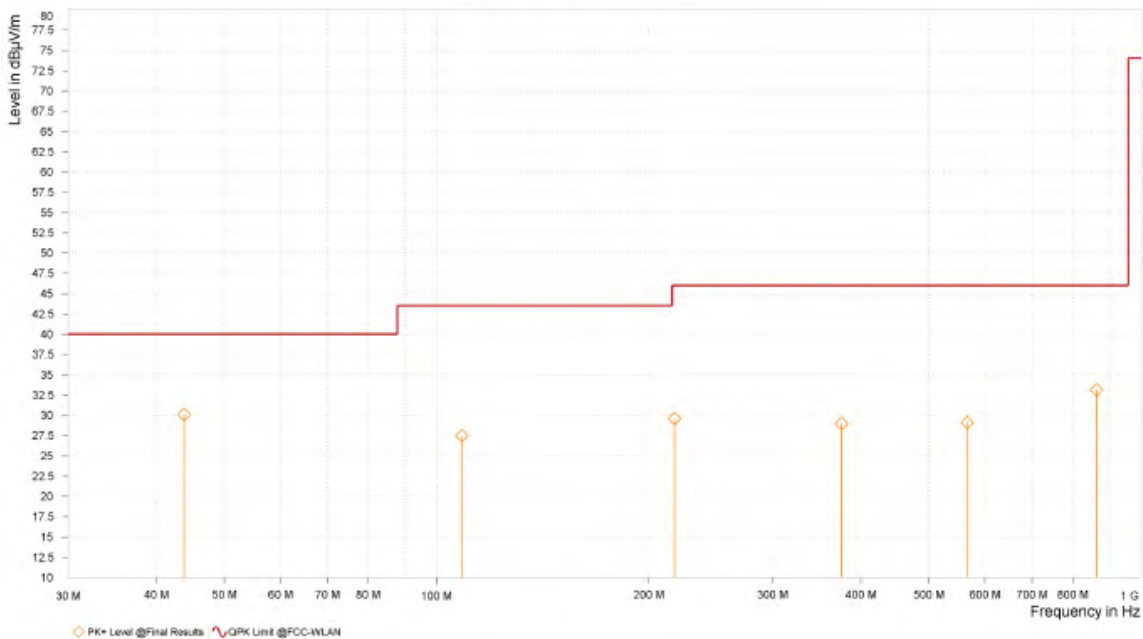
**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| Rg | Frequency [MHz] | PK+ Level [dBμV/m] | PK+: QPK Limit [dBμV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|-------------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1  | 43.823          | 30.08              | 40.00                   | 9.92            | -7.56           | H            | 0.9           | 2.00               |
| 1  | 108.667         | 27.45              | 43.50                   | 16.05           | -9.20           | H            | 264.9         | 1.00               |
| 1  | 217.598         | 29.58              | 46.00                   | 16.42           | -8.44           | H            | 96.5          | 2.00               |
| 1  | 375.611         | 28.95              | 46.00                   | 17.05           | -3.66           | H            | 1             | 1.00               |
| 1  | 566.119         | 29.08              | 46.00                   | 16.92           | -2.73           | H            | 96.5          | 2.00               |
| 1  | 864.831         | 33.12              | 46.00                   | 12.88           | 2.37            | H            | 129.8         | 1.00               |

**REMARKS:**

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

Spectrum Overview





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

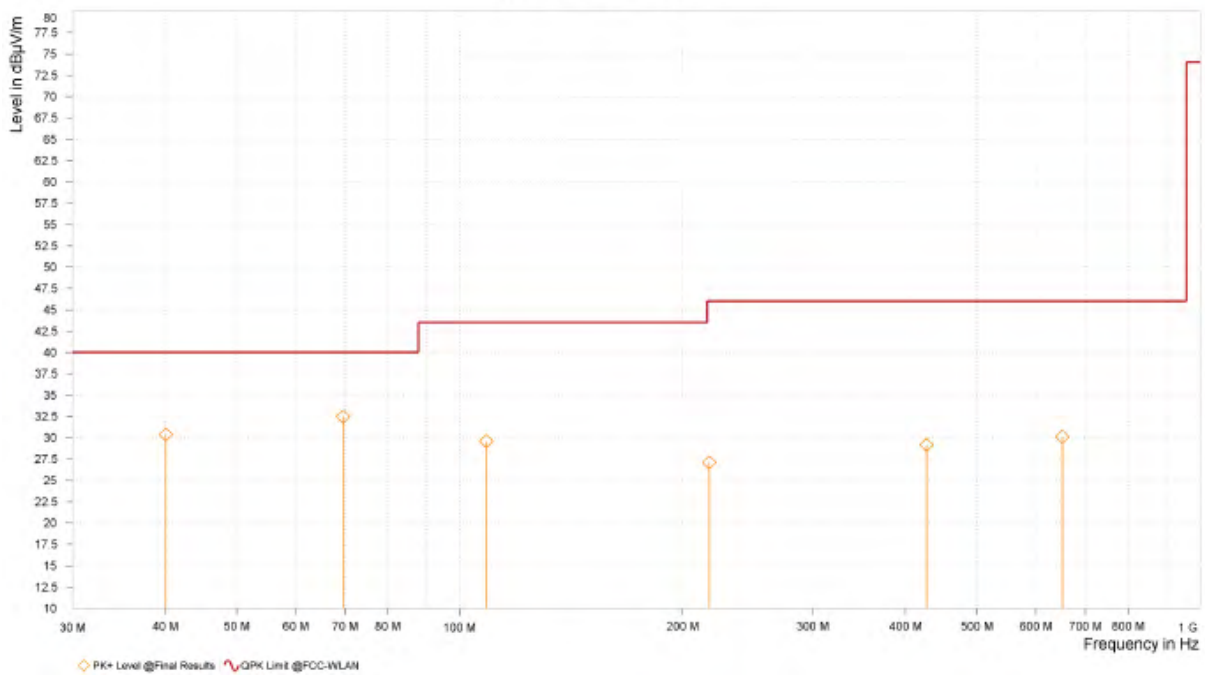
**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| Rg | Frequency [MHz] | PK+ Level [dBμV/m] | PK+: QPK Limit [dBμV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|-------------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1  | 40.088          | 30.36              | 40.00                   | 9.64            | -8.40           | V            | 358.5         | 1.00               |
| 1  | 69.576          | 32.46              | 40.00                   | 7.54            | -11.59          | V            | 96.4          | 2.00               |
| 1  | 108.667         | 29.57              | 43.50                   | 13.93           | -9.20           | V            | 229           | 2.00               |
| 1  | 217.453         | 27.10              | 46.00                   | 18.90           | -8.45           | V            | 96.4          | 2.00               |
| 1  | 427.215         | 29.13              | 46.00                   | 16.87           | -3.44           | V            | 264.8         | 1.00               |
| 1  | 651.382         | 30.08              | 46.00                   | 15.92           | -1.12           | V            | 96.4          | 2.00               |

**REMARKS:**

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

**Spectrum Overview**





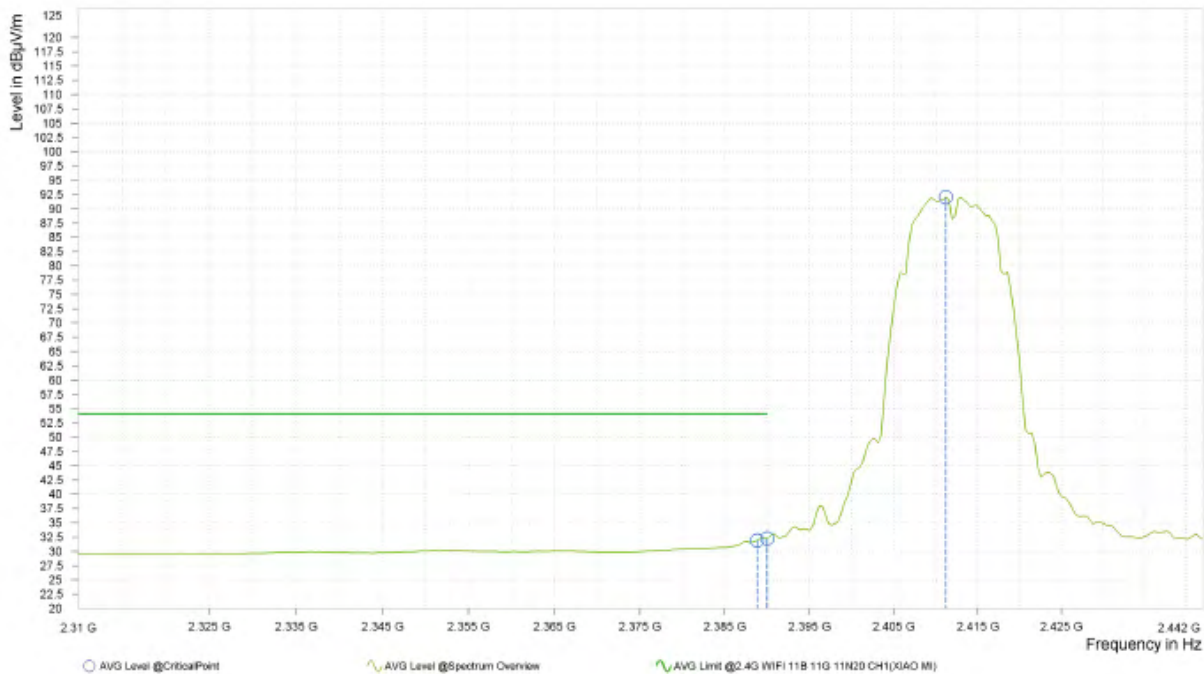
**ABOVE 1GHz WORST-CASE DATA:**

**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

**802.11b:**

|                        |              |                          |              |
|------------------------|--------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 1 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                          | Average (AV) |

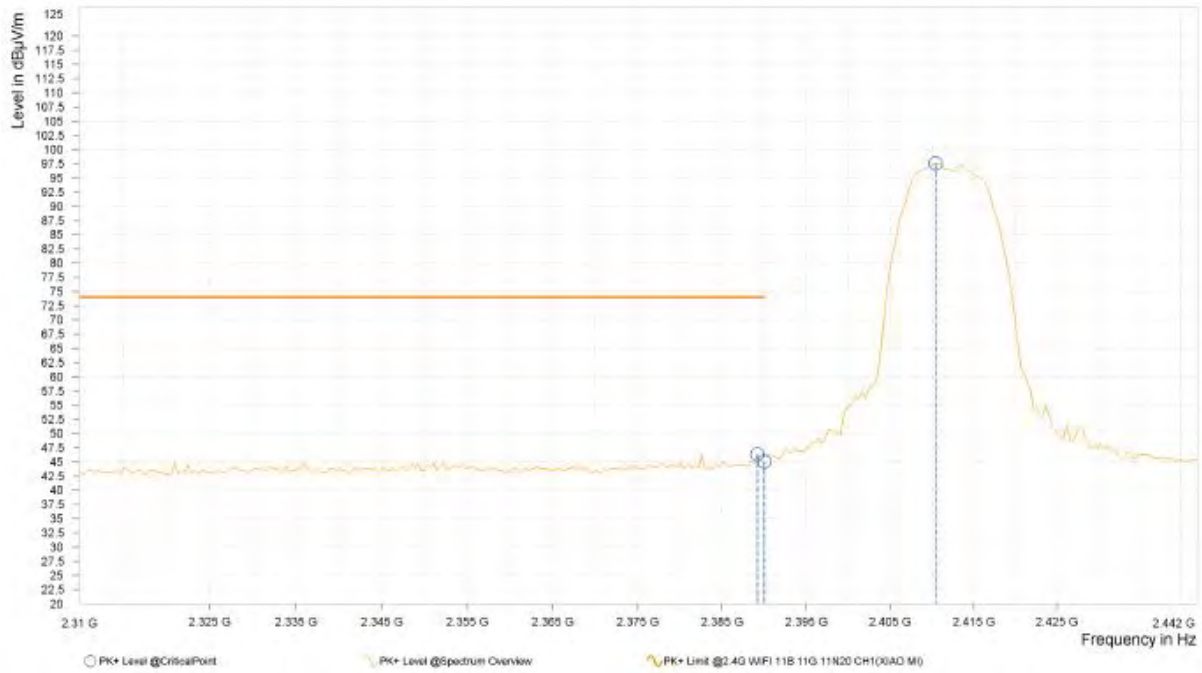


| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1  | 2,388.833       | 31.93              | 54.00              | 22.07           | 5.76            | H            | 72.2          | 1.00               |
| 1  | 2,390.000       | 32.25              | 54.00              | 21.75           | 5.77            | H            | 137.1         | 2.00               |
| 1  | 2,411.200       | 92.04              |                    |                 | 5.92            | H            | 5             | 1.00               |



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**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1  | 2,389.200       | 46.33              | 74.00              | 27.67           | 5.76            | H            | 145.2         | 1.00               |
| 1  | 2,390.000       | 45.05              | 74.00              | 28.95           | 5.77            | H            | 208.9         | 2.00               |
| 1  | 2,410.467       | 97.57              |                    |                 | 5.91            | H            | 72.2          | 1.00               |



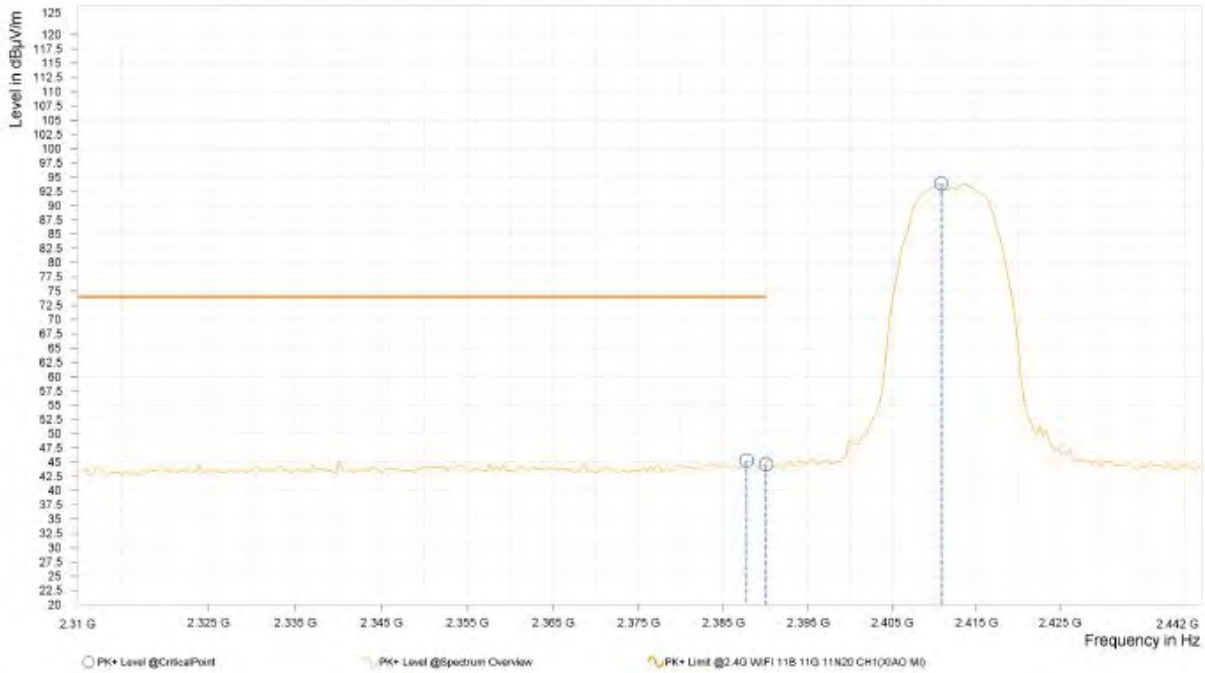


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**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1  | 2,388.467       | 30.60              | 54.00              | 23.40           | 5.76            | V            | 287.8         | 2.00               |
| 1  | 2,390.000       | 30.66              | 54.00              | 23.34           | 5.77            | V            | 359           | 2.00               |
| 1  | 2,413.033       | 87.89              |                    |                 | 5.93            | V            | 5.5           | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1  | 2,387.733       | 45.26              | 74.00              | 28.74           | 5.75            | V            | 81.8          | 1.00               |
| 1  | 2,390.000       | 44.62              | 74.00              | 29.38           | 5.77            | V            | 1             | 1.00               |
| 1  | 2,410.833       | 93.83              |                    |                 | 5.91            | V            | 7.1           | 1.00               |

**REMARKS:**

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

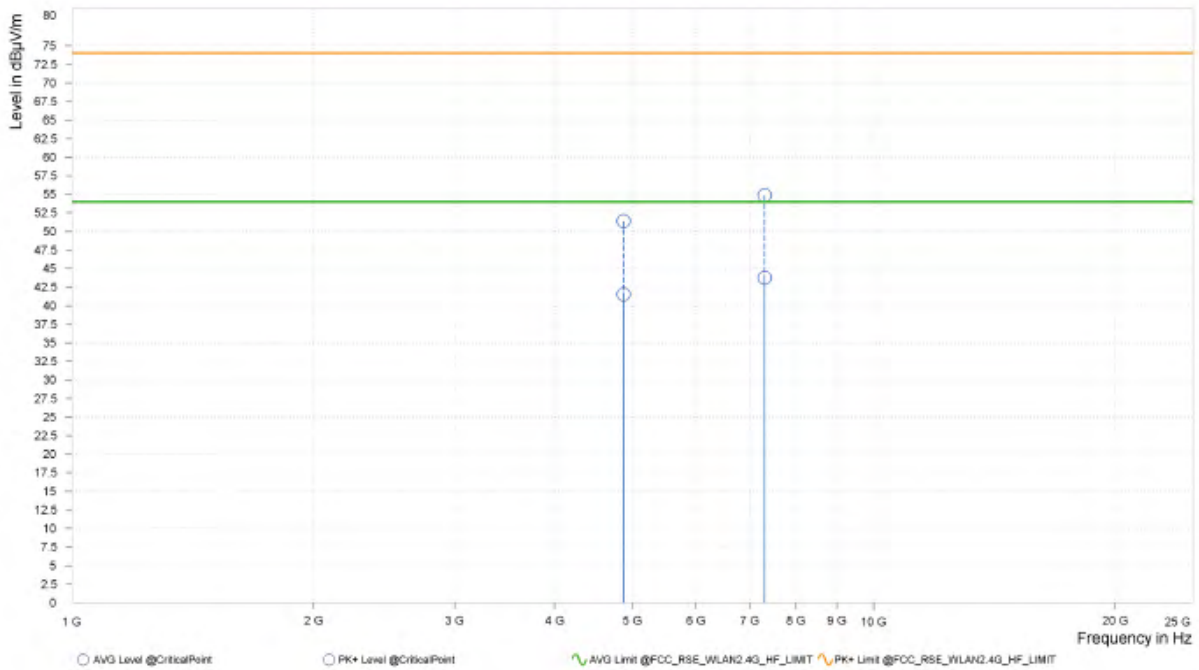


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**Test Report No.: PSU-NQN2405090215RF06**

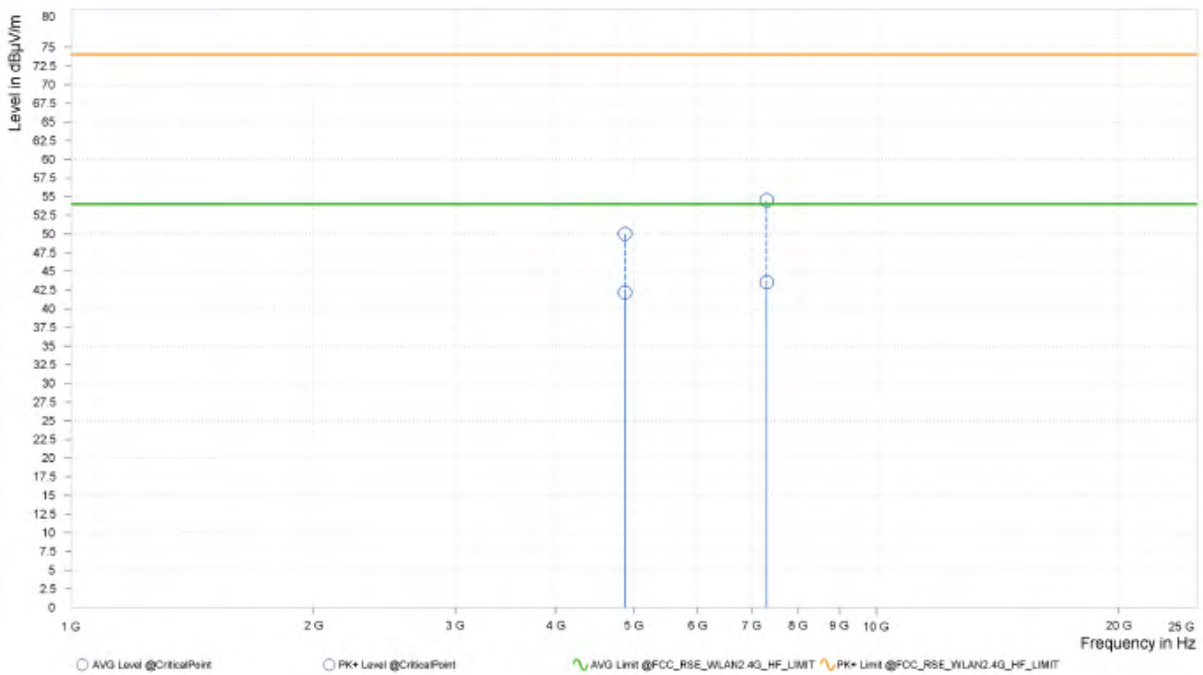
|                        |              |                          |              |
|------------------------|--------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 6 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |       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

| 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       | 51.39              | 74.00              | 22.61           | 41.52              | 54.00              | 12.48           | 13.53           | H            | 1             | 1.00               |
| 2  | 7,311.000       | 54.86              | 74.00              | 19.14           | 43.78              | 54.00              | 10.22           | 18.89           | H            | 330.4         | 1.00               |





| 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       | 50.01              | 74.00              | 23.99           | 42.16              | 54.00              | 11.84           | 13.53           | V            | 359.1         | 1.00               |
| 2  | 7,311.000       | 54.52              | 74.00              | 19.48           | 43.54              | 54.00              | 10.46           | 18.89           | V            | 29.6          | 2.00               |



**REMARKS:**

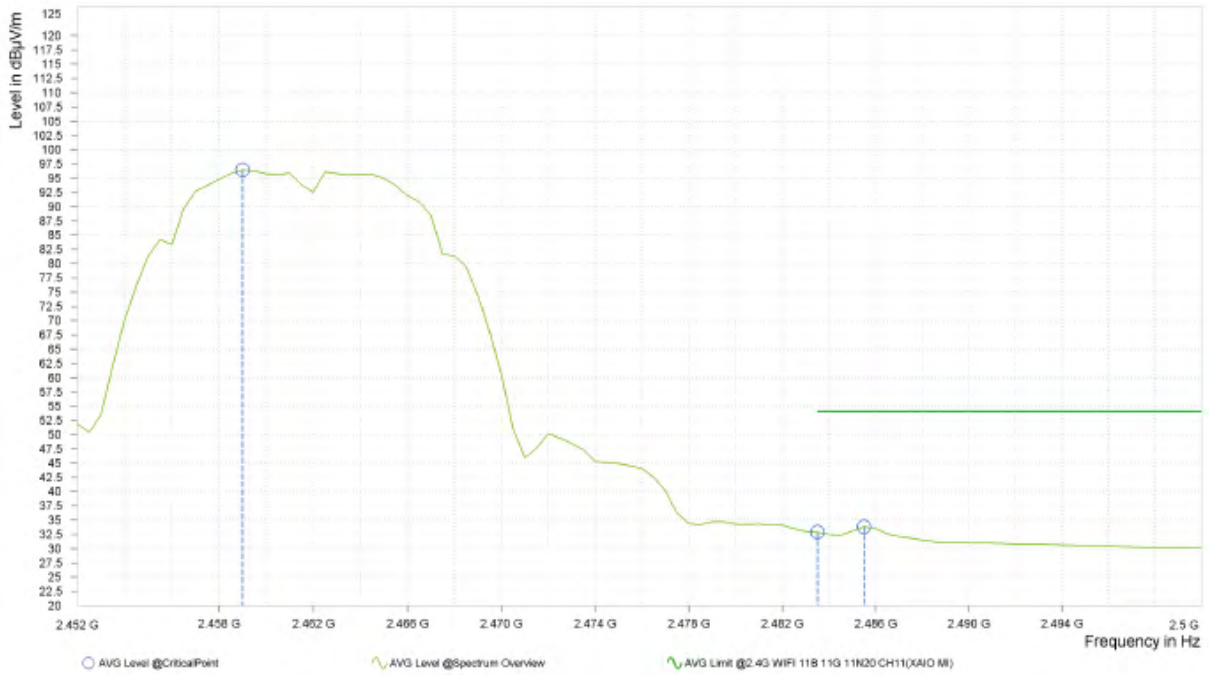
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value- Emission level.
2. 2437MHz: Fundamental frequency.



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Test Report No.: PSU-NQN2405090215RF06

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

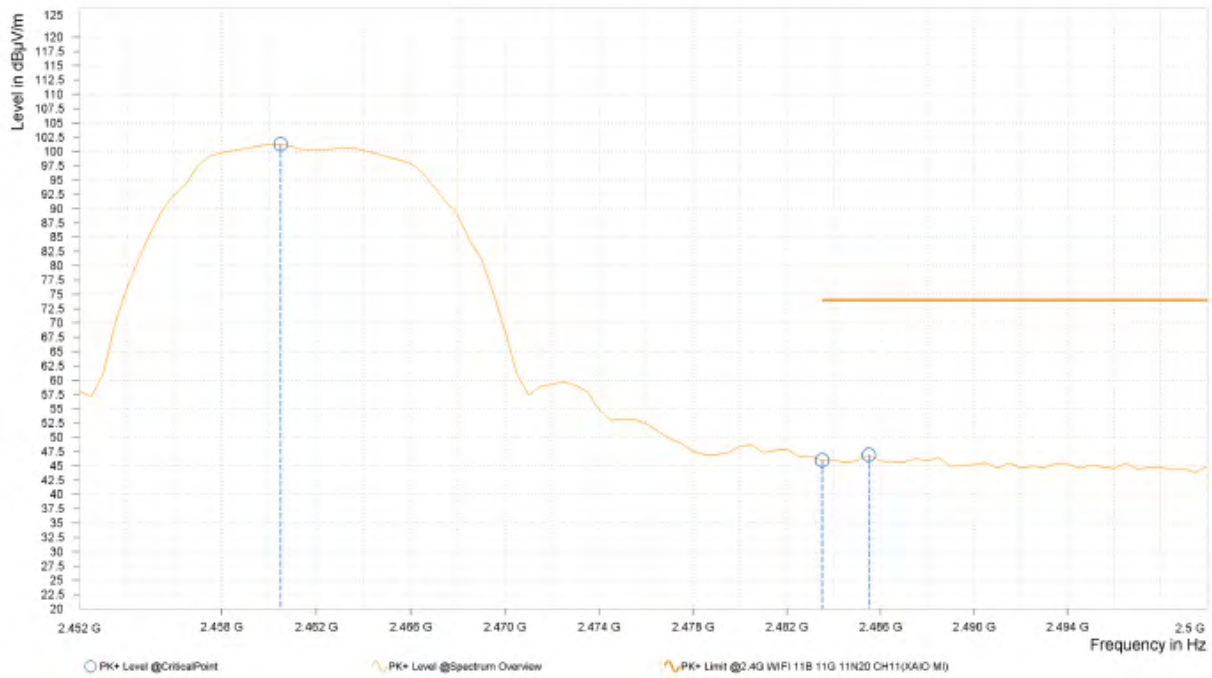


| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 2,459.000       | 96.44              |                    |                 | 5.84            | H            | 72.2          | 1.00               |
| 2  | 2,483.500       | 32.89              | 54.00              | 21.11           | 5.91            | H            | 131.2         | 2.00               |
| 2  | 2,485.500       | 33.85              | 54.00              | 20.15           | 5.93            | H            | 131.2         | 2.00               |



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**Test Report No.: PSU-NQN2405090215RF06**

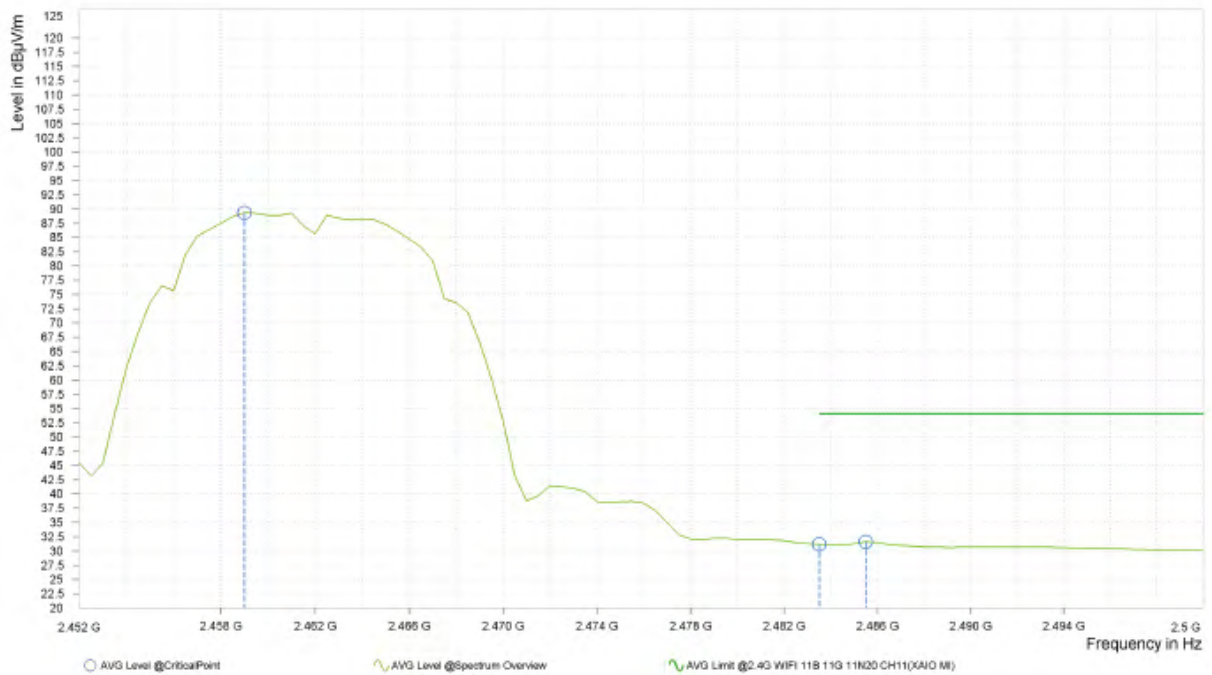


| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 2,460.500       | 101.23             |                    |                 | 5.83            | H            | 63            | 2.00               |
| 2  | 2,483.500       | 45.96              | 74.00              | 28.04           | 5.91            | H            | 4.3           | 2.00               |
| 2  | 2,485.500       | 46.89              | 74.00              | 27.11           | 5.93            | H            | 84.2          | 1.00               |

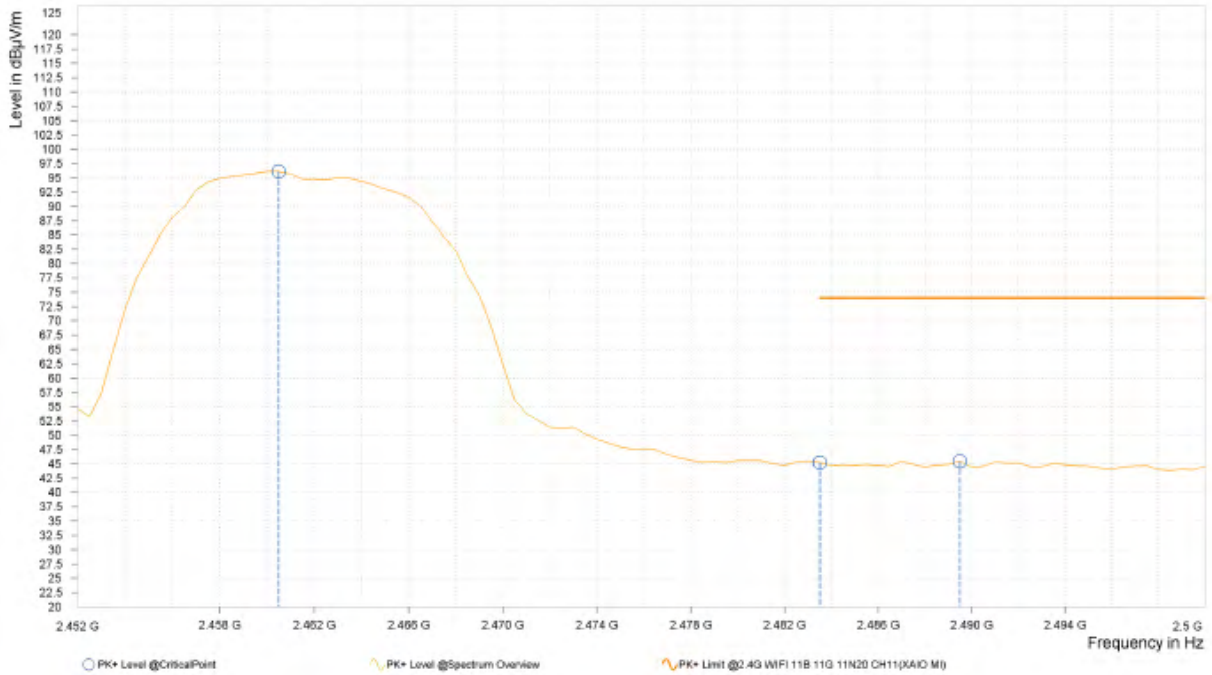


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**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 2,459.000       | 89.35              |                    |                 | 5.84            | V            | 59            | 1.00               |
| 2  | 2,483.500       | 31.17              | 54.00              | 22.83           | 5.91            | V            | 127.2         | 1.00               |
| 2  | 2,485.500       | 31.63              | 54.00              | 22.37           | 5.93            | V            | 127.2         | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 2,460.500       | 96.11              |                    |                 | 5.83            | V            | 78.2          | 1.00               |
| 2  | 2,483.500       | 45.22              | 74.00              | 28.78           | 5.91            | V            | 1             | 1.00               |
| 2  | 2,489.500       | 45.46              | 74.00              | 28.54           | 5.95            | V            | 5.6           | 1.00               |

**REMARKS:**

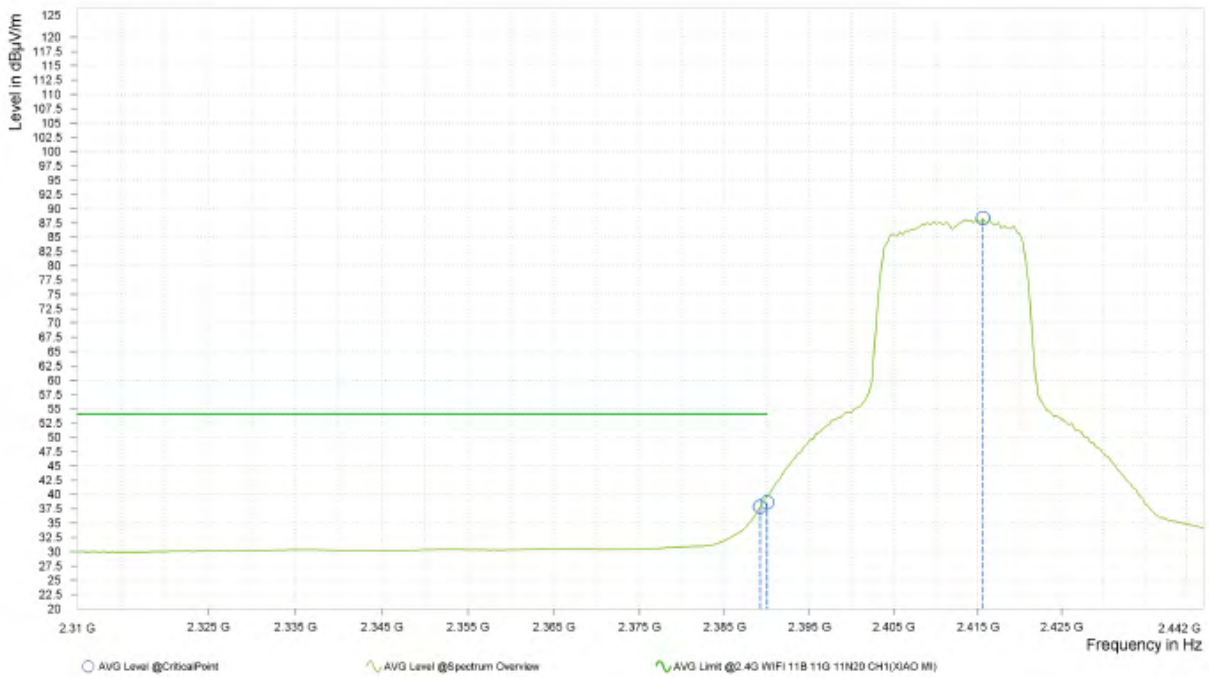
- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value- Emission level.
- 2462MHz: Fundamental frequency.



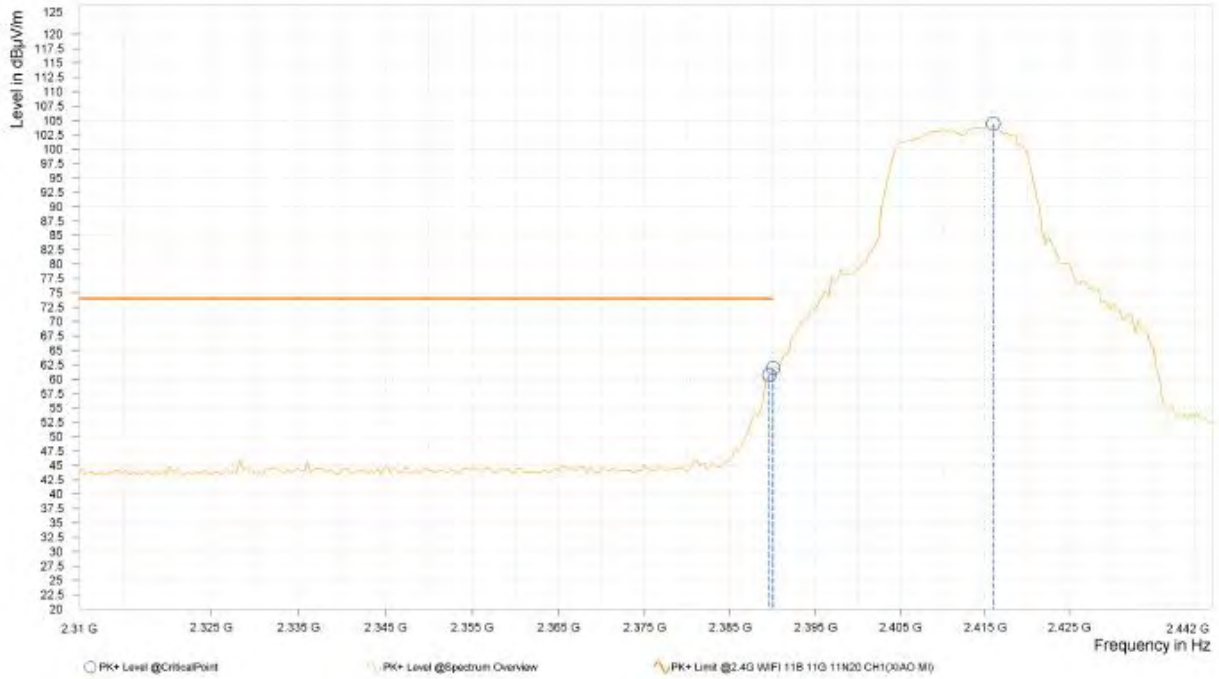


**802.11g**

|                        |              |                          |              |
|------------------------|--------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 1 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                          | Average (AV) |



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1  | 2,389.200       | 37.86              | 54.00              | 16.14           | 5.76            | H            | 137.2         | 2.00               |
| 1  | 2,390.000       | 38.62              | 54.00              | 15.38           | 5.77            | H            | 137.2         | 2.00               |
| 1  | 2,415.600       | 88.33              |                    |                 | 5.95            | H            | 137.2         | 2.00               |

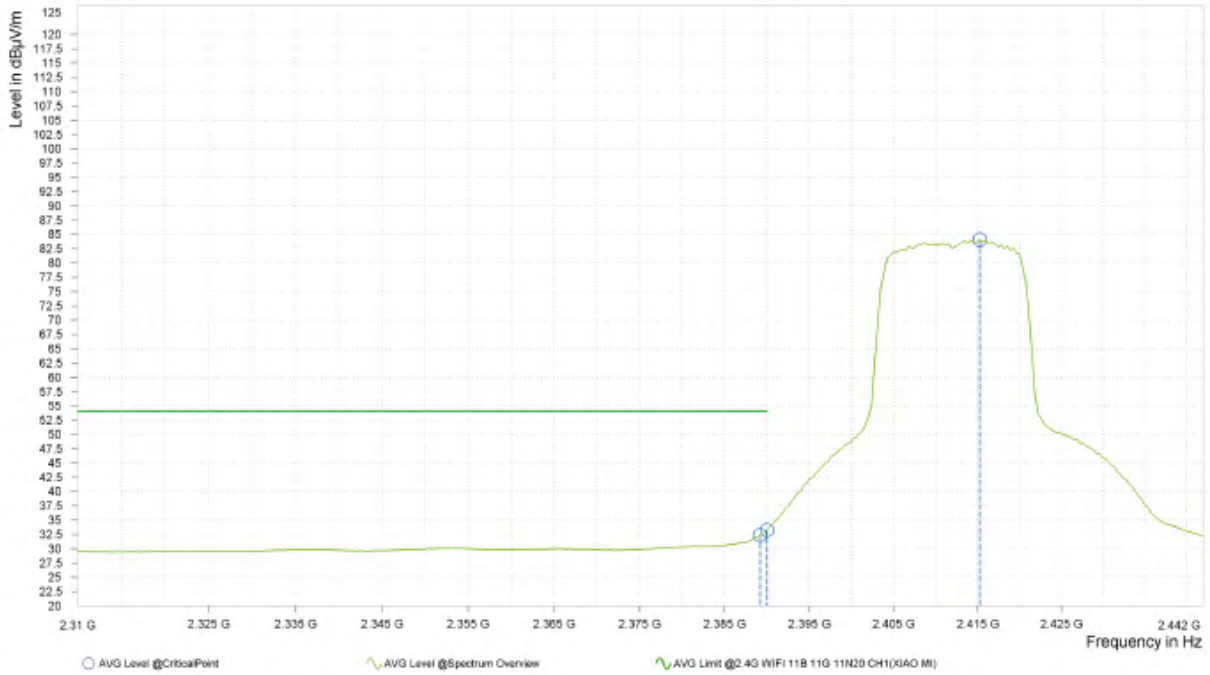


| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1  | 2,389.567       | 60.73              | 74.00              | 13.27           | 5.77            | H            | 136           | 2.00               |
| 1  | 2,390.000       | 61.89              | 74.00              | 12.11           | 5.77            | H            | 136           | 2.00               |
| 1  | 2,415.970       | 104.42             |                    |                 | 5.95            | H            | 136           | 2.00               |

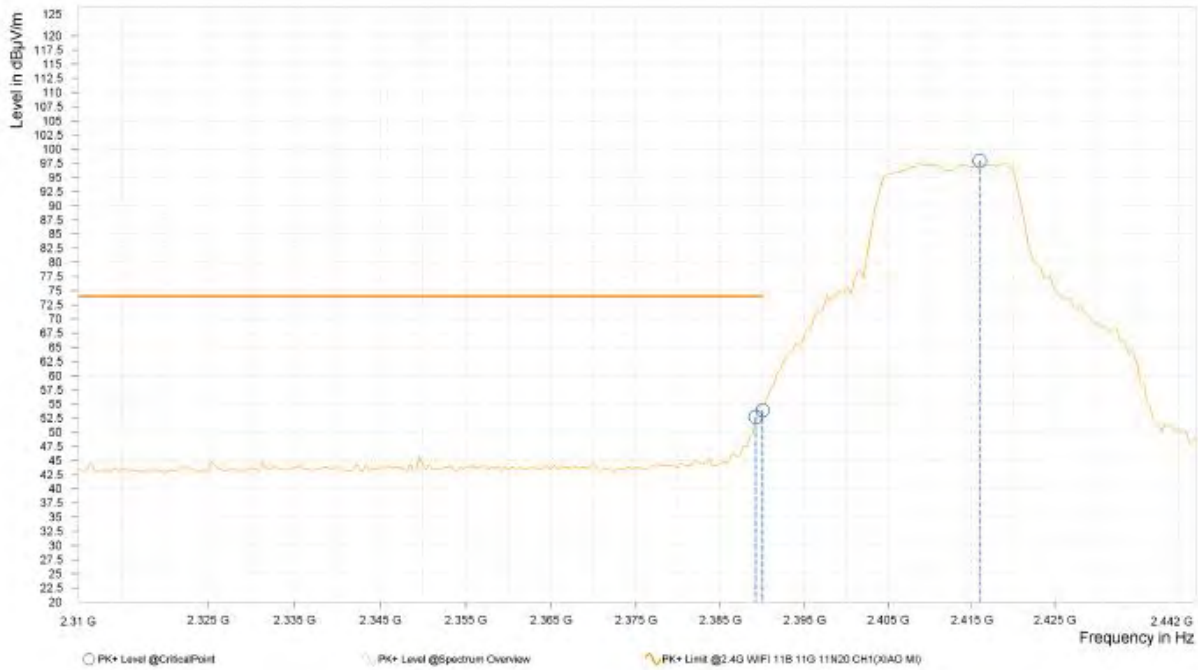


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**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1  | 2,389.200       | 32.38              | 54.00              | 21.62           | 5.76            | V            | 354.5         | 2.00               |
| 1  | 2,390.000       | 33.23              | 54.00              | 20.77           | 5.77            | V            | 153.5         | 1.00               |
| 1  | 2,415.233       | 84.09              |                    |                 | 5.94            | V            | 204.2         | 2.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1  | 2,389.200       | 52.69              | 74.00              | 21.31           | 5.76            | V            | 57.1          | 2.00               |
| 1  | 2,390.000       | 53.83              | 74.00              | 20.17           | 5.77            | V            | 57.1          | 2.00               |
| 1  | 2,415.967       | 97.92              |                    |                 | 5.95            | V            | 71            | 1.00               |

**REMARKS:**

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

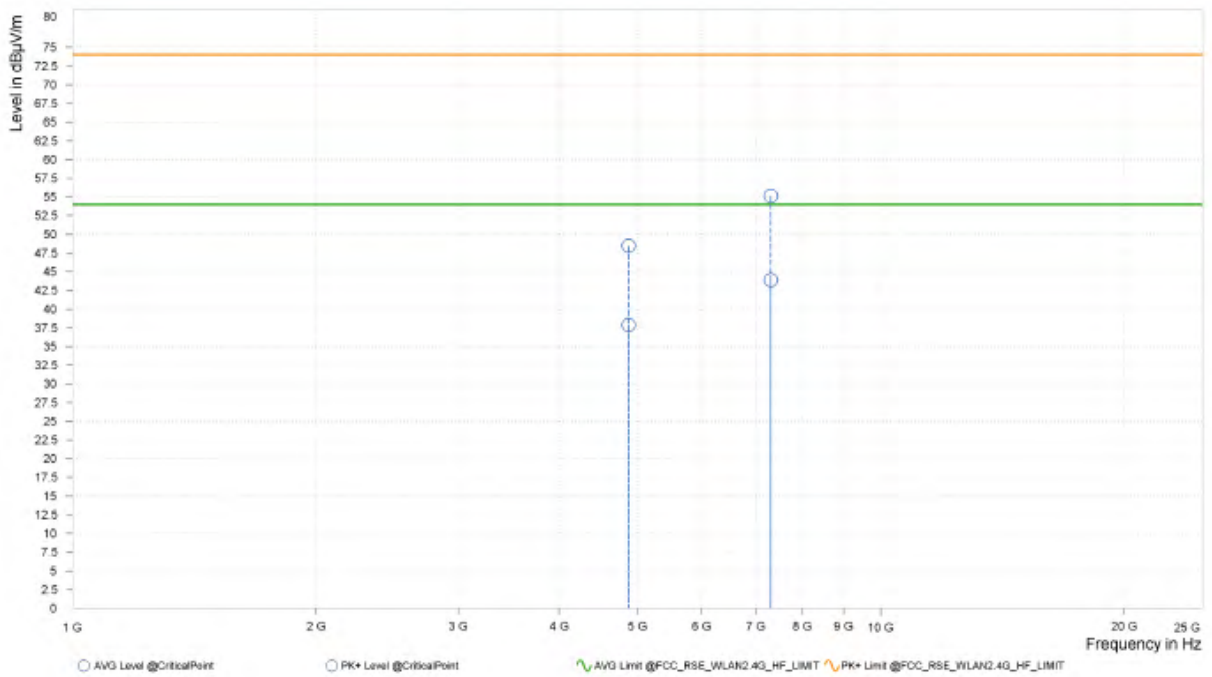


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**Test Report No.: PSU-NQN2405090215RF06**

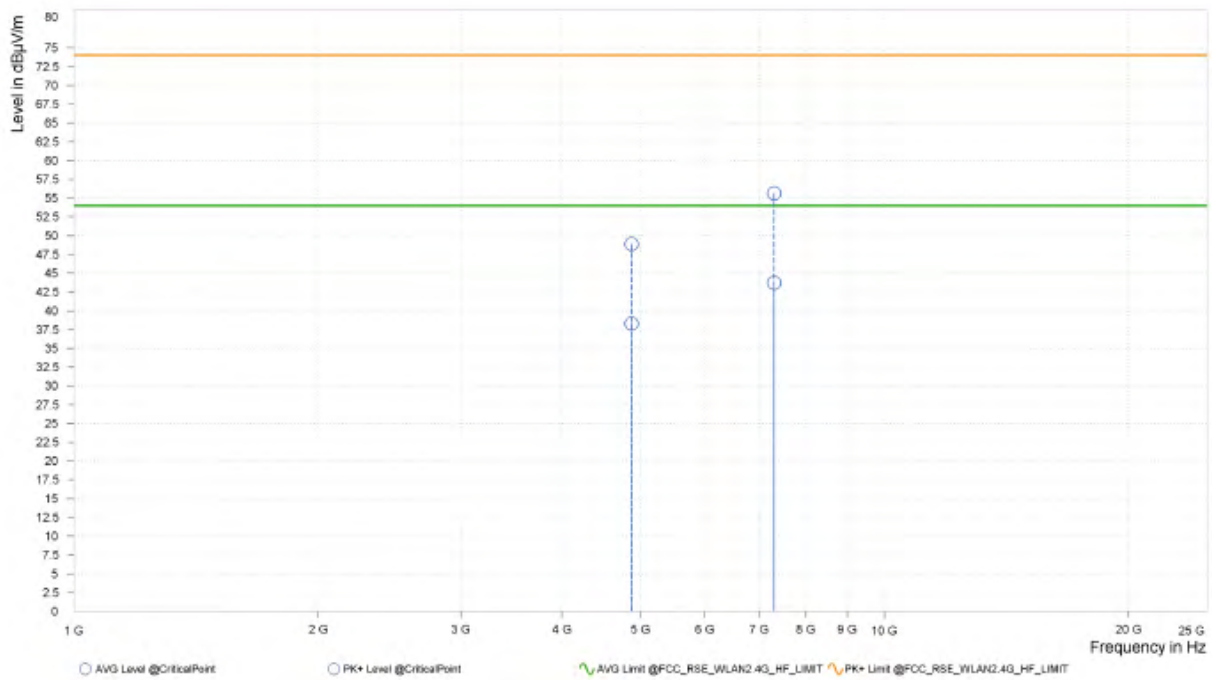
|                        |              |                          |              |
|------------------------|--------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 6 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |       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

| 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       | 48.45              | 74.00              | 25.55           | 37.89              | 54.00              | 16.11           | 13.53           | H            | 28.4          | 2.00               |
| 2  | 7,311.000       | 55.14              | 74.00              | 18.86           | 43.88              | 54.00              | 10.12           | 18.89           | H            | 359.1         | 1.00               |





| 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       | 48.85              | 74.00              | 25.15           | 38.31              | 54.00              | 15.69           | 13.53           | V            | 0.9           | 2.00               |
| 2  | 7,311.000       | 55.63              | 74.00              | 18.37           | 43.69              | 54.00              | 10.31           | 18.89           | V            | 359           | 1.00               |



**REMARKS:**

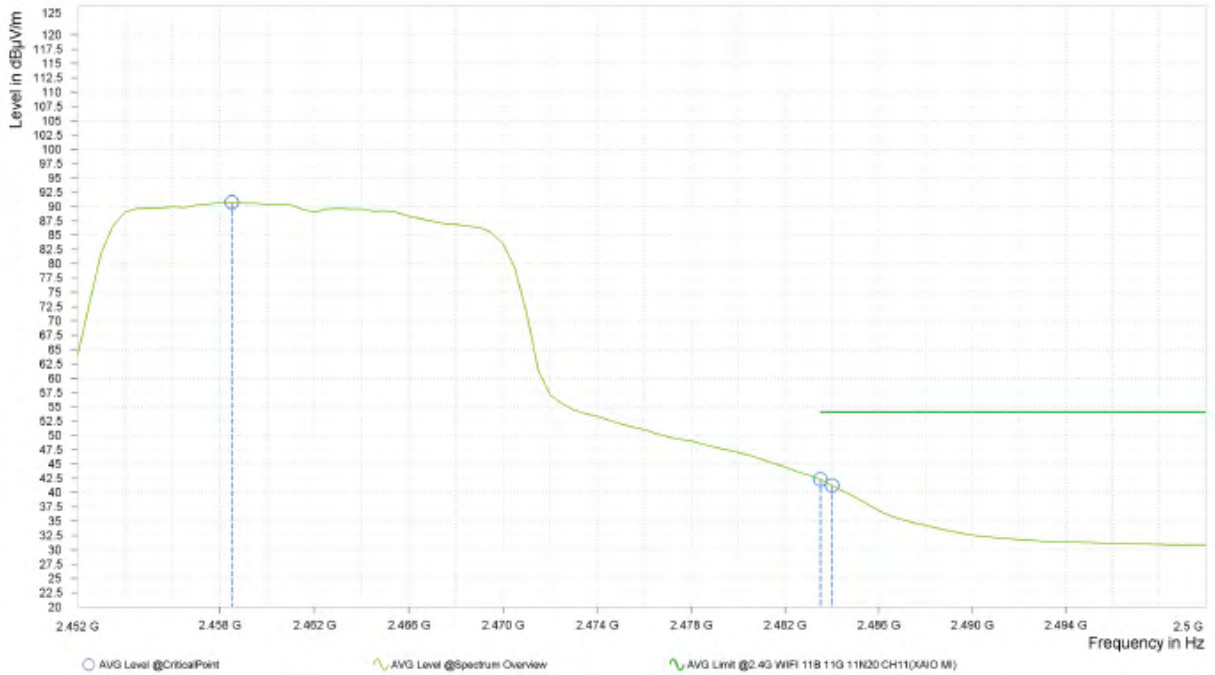
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value- Emission level.
2. 2437MHz: Fundamental frequency.



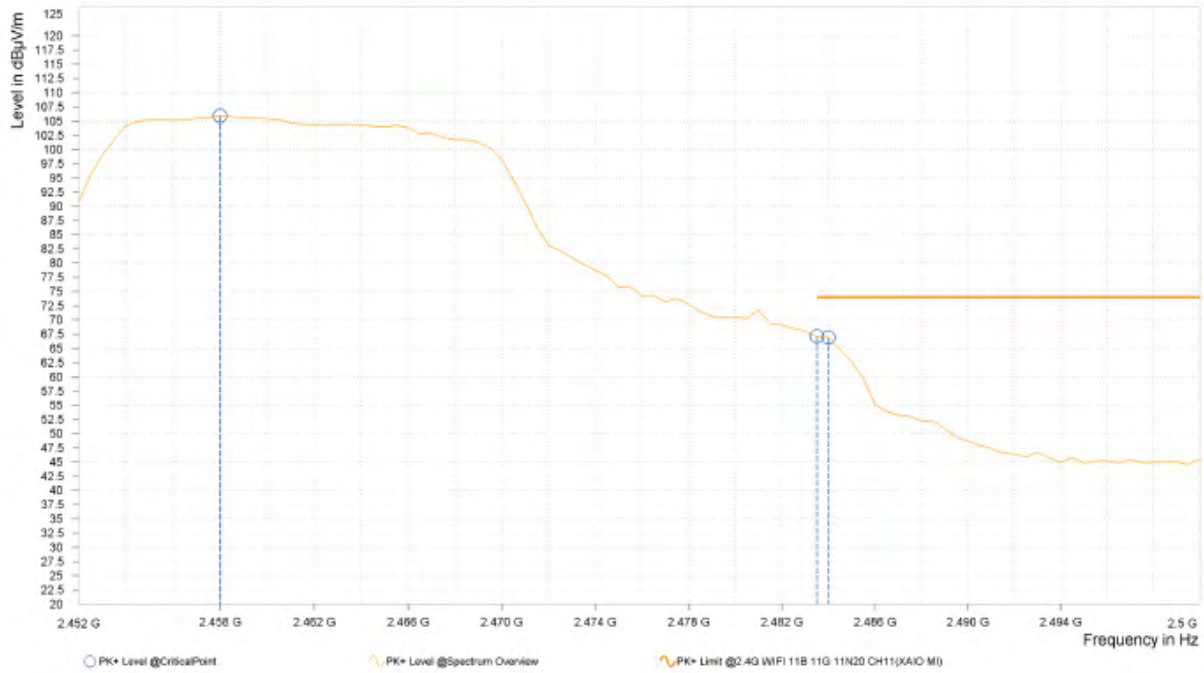
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Test Report No.: PSU-NQN2405090215RF06

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



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 2,458.500       | 90.74              |                    |                 | 5.84            | H            | 58.3          | 2.00               |
| 2  | 2,483.500       | 42.32              | 54.00              | 11.68           | 5.91            | H            | 134.8         | 2.00               |
| 2  | 2,484.000       | 41.24              | 54.00              | 12.76           | 5.92            | H            | 134.8         | 2.00               |



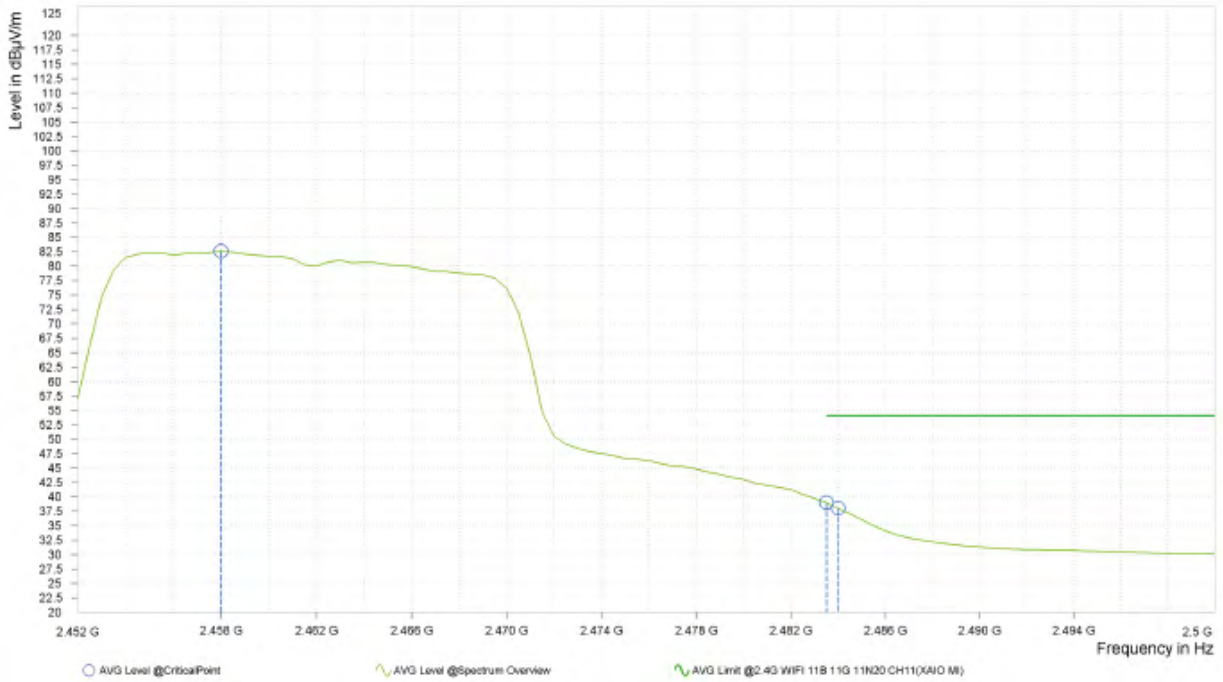
| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 2,458.000       | 105.91             |                    |                 | 5.85            | H            | 60.6          | 2.00               |
| 2  | 2,483.500       | 67.08              | 74.00              | 6.92            | 5.91            | H            | 134.8         | 2.00               |
| 2  | 2,484.000       | 66.94              | 74.00              | 7.06            | 5.92            | H            | 134.8         | 2.00               |



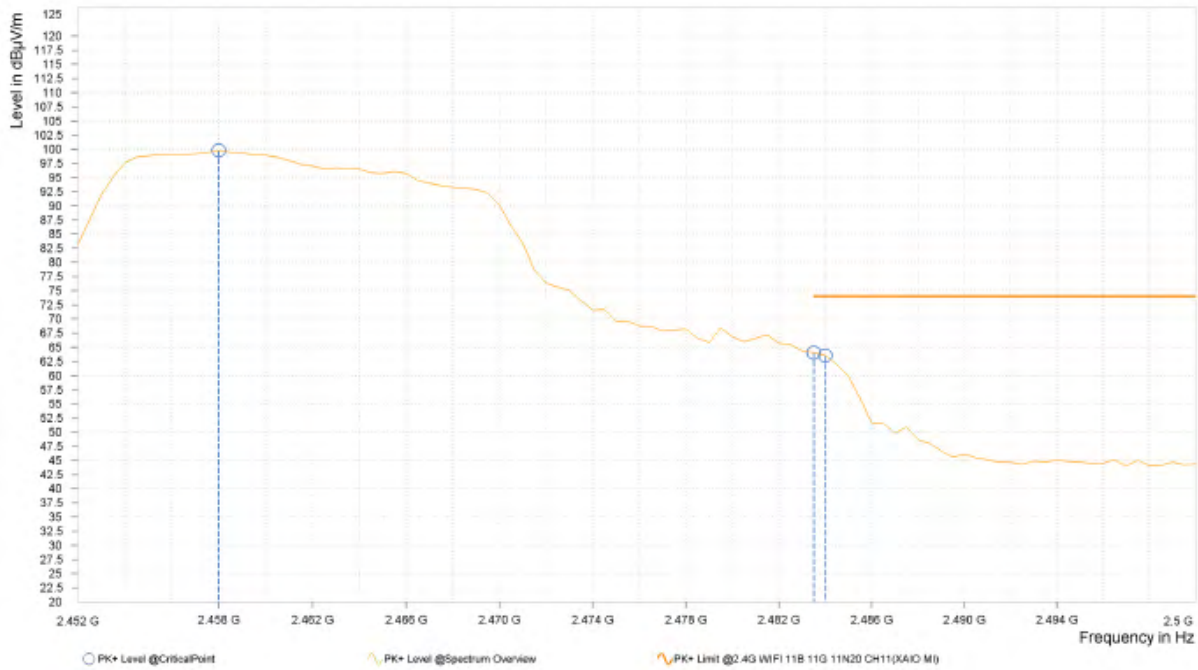


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**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 2,458.000       | 82.60              |                    |                 | 5.85            | V            | 359           | 2.00               |
| 2  | 2,483.500       | 39.01              | 54.00              | 14.99           | 5.91            | V            | 74.6          | 1.00               |
| 2  | 2,484.000       | 38.02              | 54.00              | 15.98           | 5.92            | V            | 74.6          | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 2,458.000       | 99.79              |                    |                 | 5.85            | V            | 157           | 1.00               |
| 2  | 2,483.500       | 64.02              | 74.00              | 9.98            | 5.91            | V            | 286.6         | 2.00               |
| 2  | 2,484.000       | 63.55              | 74.00              | 10.45           | 5.92            | V            | 286.6         | 2.00               |

**REMARKS:**

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

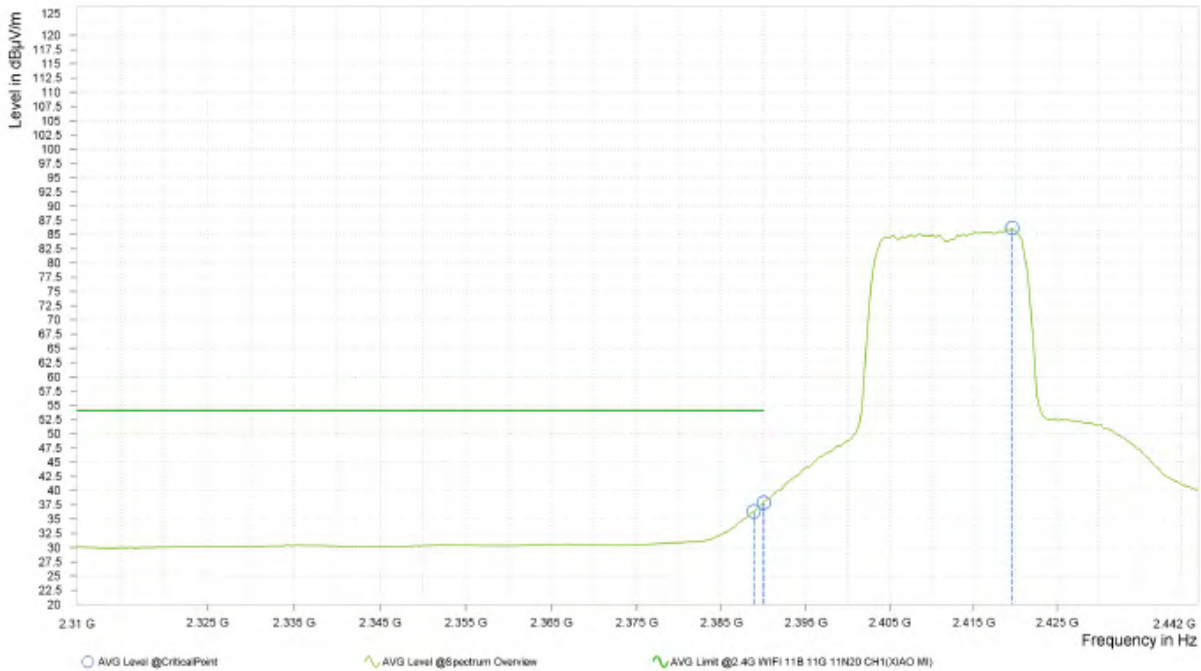


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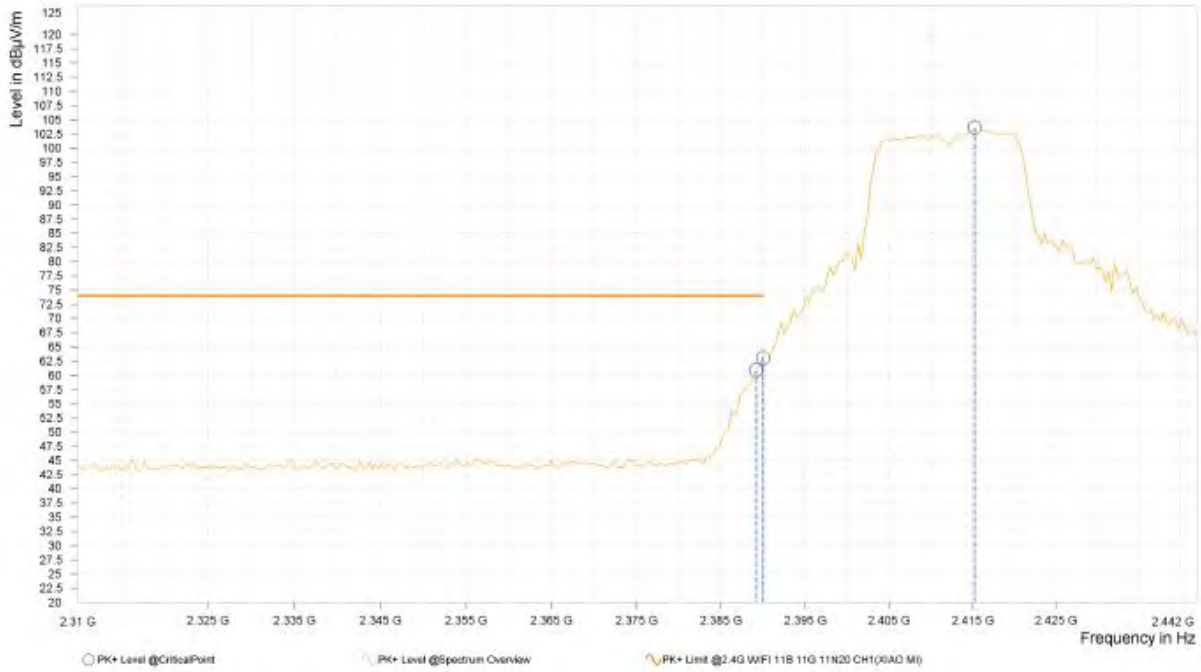
Test Report No.: PSU-NQN2405090215RF06

**802.11n (20MHz)**

|                        |              |                          |              |
|------------------------|--------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 1 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                          | Average (AV) |



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1  | 2,388.833       | 36.37              | 54.00              | 17.63           | 5.76            | H            | 132.5         | 2.00               |
| 1  | 2,390.000       | 37.86              | 54.00              | 16.14           | 5.77            | H            | 132.5         | 2.00               |
| 1  | 2,419.633       | 86.13              |                    |                 | 5.96            | H            | 5.5           | 1.00               |

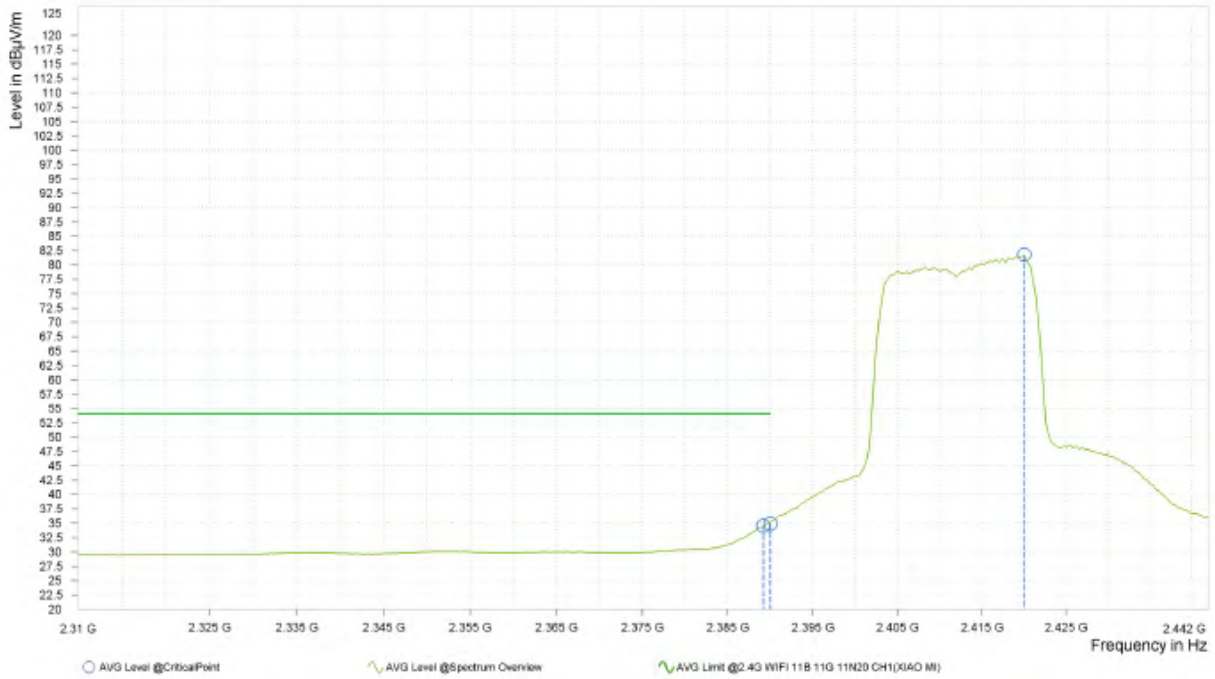


| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1  | 2,389.200       | 60.92              | 74.00              | 13.08           | 5.76            | H            | 351.2         | 1.00               |
| 1  | 2,390.000       | 63.03              | 74.00              | 10.97           | 5.77            | H            | 359.1         | 1.00               |
| 1  | 2,415.233       | 103.62             |                    |                 | 5.94            | H            | 131.2         | 2.00               |

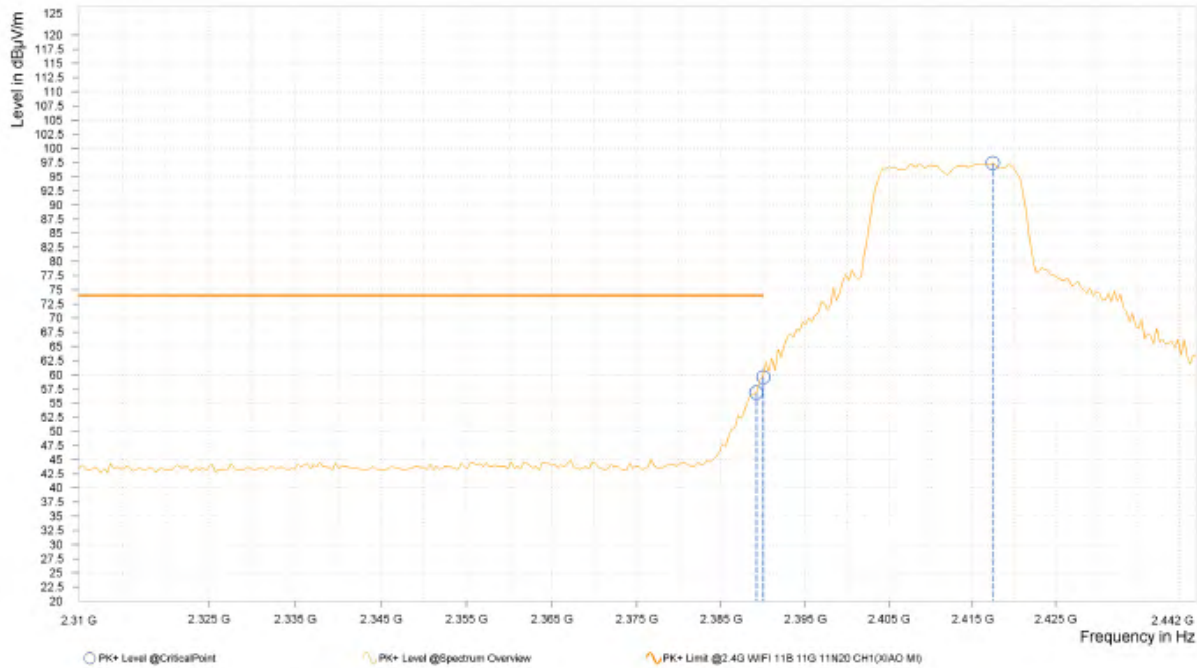


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**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1  | 2,389.200       | 34.53              | 54.00              | 19.47           | 5.76            | V            | 0.9           | 2.00               |
| 1  | 2,390.000       | 34.88              | 54.00              | 19.12           | 5.77            | V            | 50            | 2.00               |
| 1  | 2,420.000       | 81.79              |                    |                 | 5.95            | V            | 5.6           | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1  | 2,389.200       | 56.83              | 74.00              | 17.17           | 5.76            | V            | 22            | 1.00               |
| 1  | 2,390.000       | 59.58              | 74.00              | 14.42           | 5.77            | V            | 2.6           | 2.00               |
| 1  | 2,417.433       | 97.42              |                    |                 | 5.96            | V            | 93.7          | 1.00               |

**REMARKS:**

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

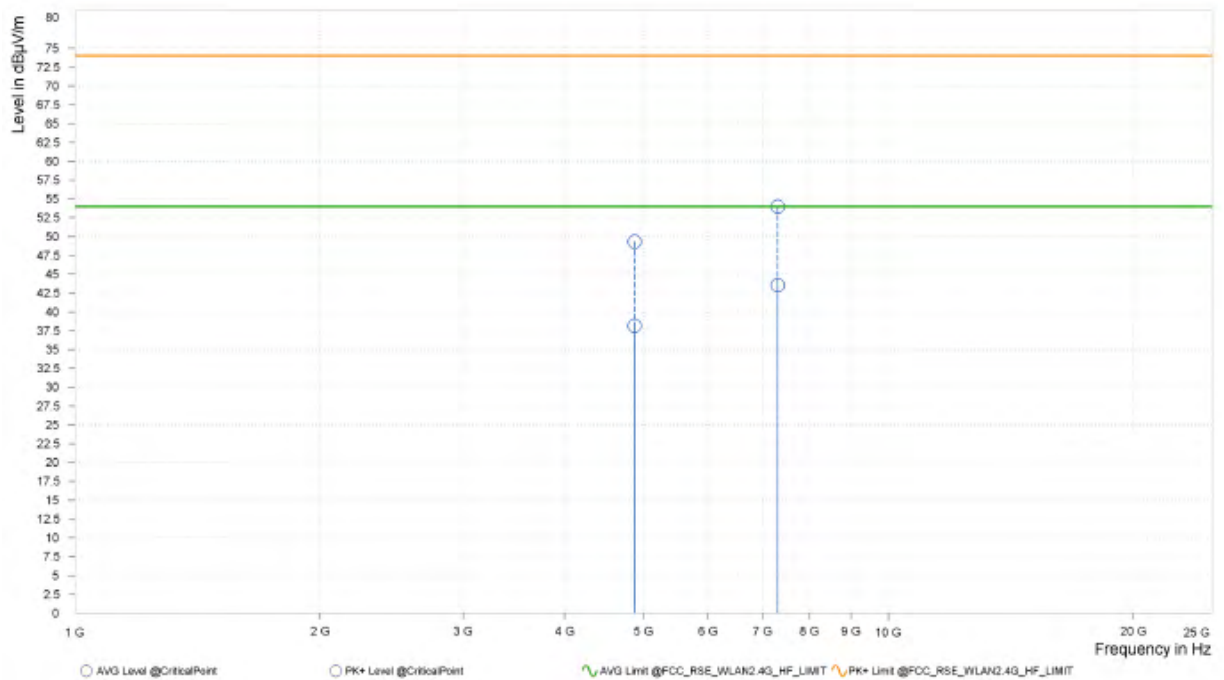


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**Test Report No.: PSU-NQN2405090215RF06**

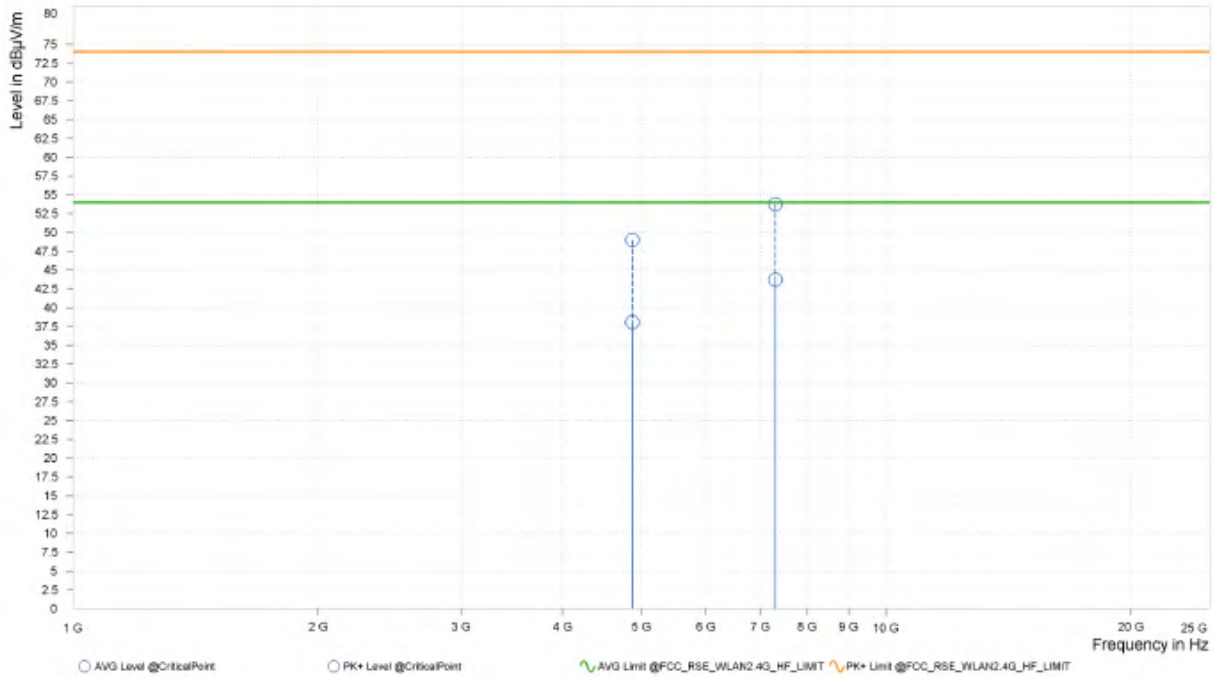
|                        |              |                          |              |
|------------------------|--------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 6 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |       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

| 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       | 49.33              | 74.00              | 24.67           | 38.17              | 54.00              | 15.83           | 13.53           | H            | 271           | 2.00               |
| 2  | 7,311.000       | 53.98              | 74.00              | 20.02           | 43.53              | 54.00              | 10.47           | 18.89           | H            | 27.1          | 2.00               |





| 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       | 48.98              | 74.00              | 25.02           | 38.05              | 54.00              | 15.95           | 13.53           | V            | 359.1         | 1.00               |
| 2  | 7,311.000       | 53.77              | 74.00              | 20.23           | 43.71              | 54.00              | 10.29           | 18.89           | V            | 271.1         | 2.00               |



**REMARKS:**

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

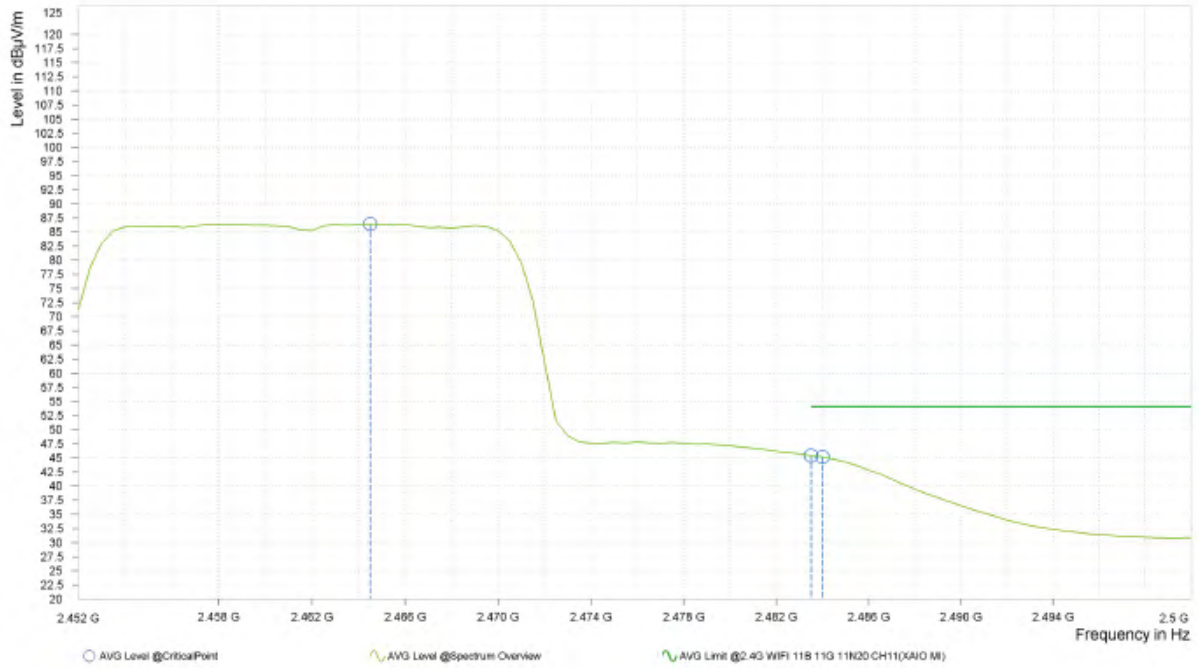




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**Test Report No.: PSU-NQN2405090215RF06**

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

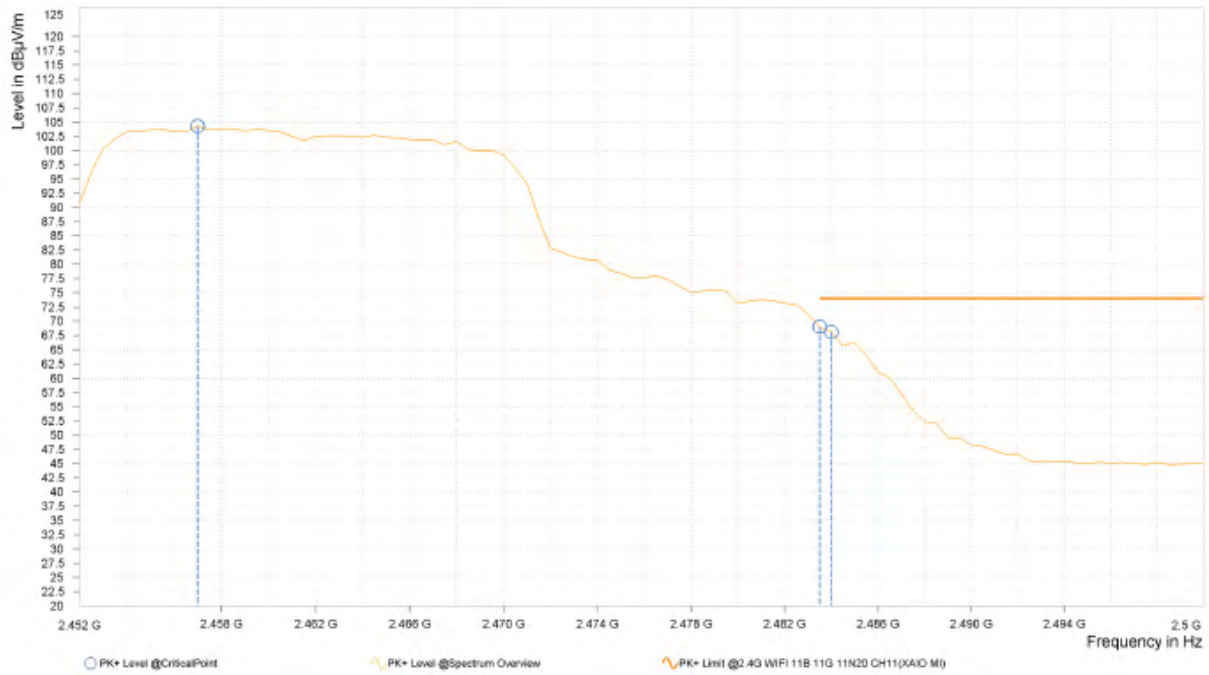


| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 2,464.500       | 86.45              |                    |                 | 5.81            | H            | 52.3          | 2.00               |
| 2  | 2,483.500       | 45.41              | 54.00              | 8.59            | 5.91            | H            | 126.4         | 2.00               |
| 2  | 2,484.000       | 45.15              | 54.00              | 8.85            | 5.92            | H            | 126.4         | 2.00               |

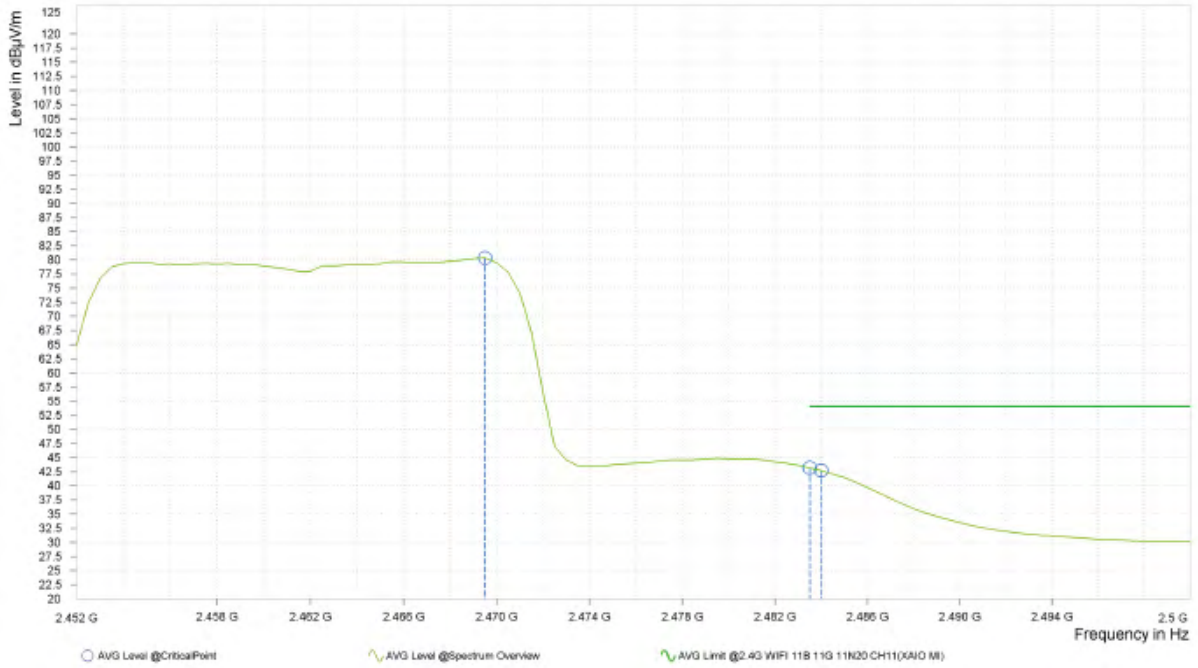


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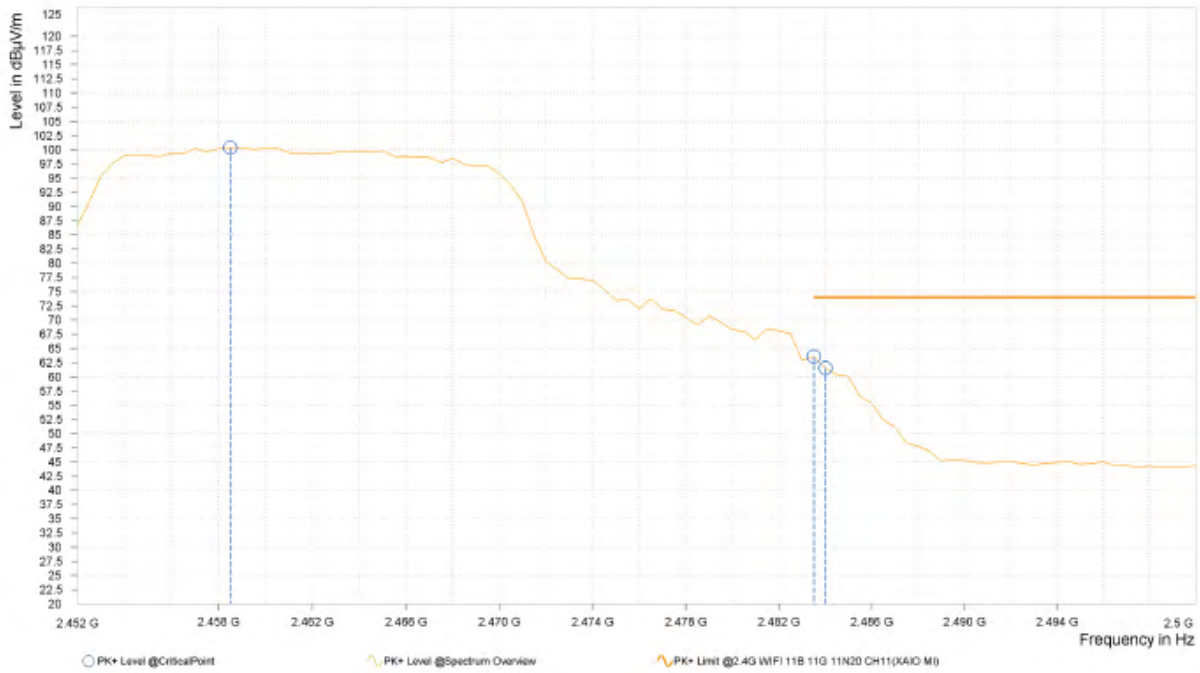
**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 2,457.000       | 104.25             |                    |                 | 5.85            | H            | 151           | 1.00               |
| 2  | 2,483.500       | 69.01              | 74.00              | 4.99            | 5.91            | H            | 206.5         | 2.00               |
| 2  | 2,484.000       | 68.10              | 74.00              | 5.90            | 5.92            | H            | 4.2           | 1.00               |



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 2,469.500       | 80.36              |                    |                 | 5.83            | V            | 91.4          | 1.00               |
| 2  | 2,483.500       | 43.16              | 54.00              | 10.84           | 5.91            | V            | 91.4          | 1.00               |
| 2  | 2,484.000       | 42.70              | 54.00              | 11.30           | 5.92            | V            | 91.4          | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 2,458.500       | 100.40             |                    |                 | 5.84            | V            | 75.8          | 1.00               |
| 2  | 2,483.500       | 63.58              | 74.00              | 10.42           | 5.91            | V            | 75.8          | 1.00               |
| 2  | 2,484.000       | 61.57              | 74.00              | 12.43           | 5.92            | V            | 75.8          | 1.00               |

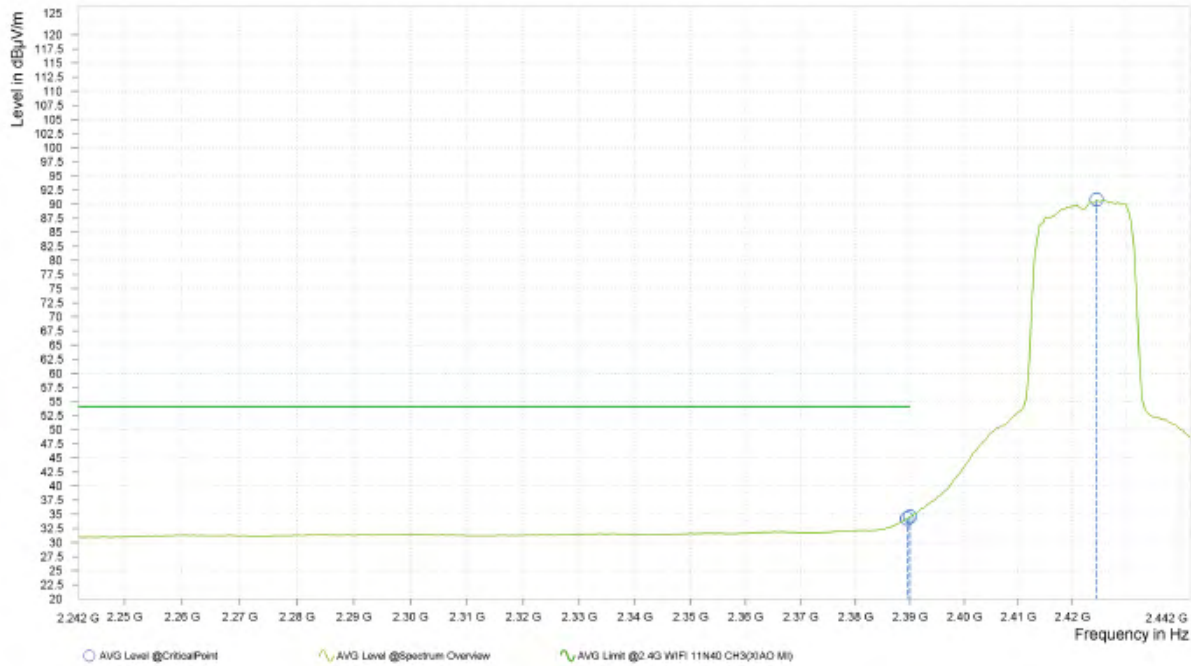
**REMARKS:**

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



**802.11n (40MHz)**

|                        |              |                          |              |
|------------------------|--------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 3 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                          | Average (AV) |

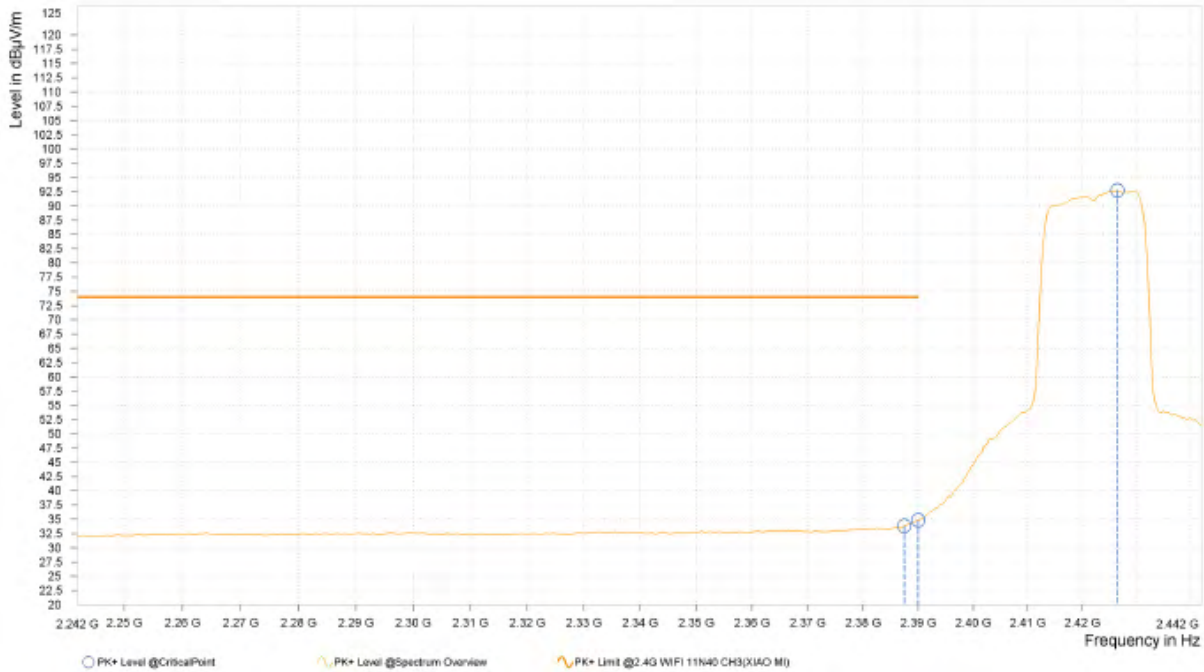


| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 3  | 2,389.500       | 34.25              | 54.00              | 19.75           | 5.77            | H            | 80.6          | 1.00               |
| 3  | 2,390.000       | 34.56              | 54.00              | 19.44           | 5.77            | H            | 80.6          | 1.00               |
| 3  | 2,424.500       | 90.78              |                    |                 | 5.95            | H            | 120.4         | 2.00               |



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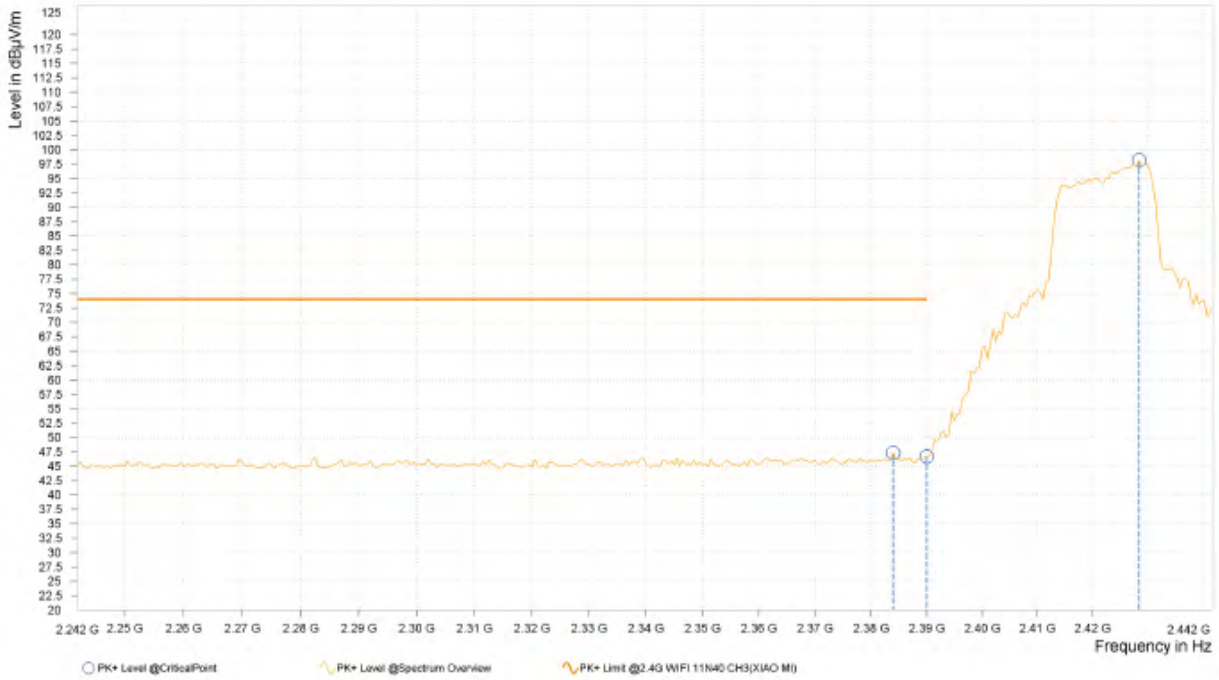
**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 3  | 2,387.500       | 33.84              | 74.00              | 40.16           | 5.75            | H            | 124.1         | 2.00               |
| 3  | 2,390.000       | 34.80              | 74.00              | 39.20           | 5.77            | H            | 124.1         | 2.00               |
| 3  | 2,426.500       | 92.75              |                    |                 | 5.94            | H            | 11.6          | 1.00               |



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 3  | 2,387.000       | 32.19              | 54.00              | 21.81           | 5.75            | V            | 359           | 2.00               |
| 3  | 2,390.000       | 32.50              | 54.00              | 21.50           | 5.77            | V            | 75.8          | 1.00               |
| 3  | 2,429.500       | 82.46              |                    |                 | 5.94            | V            | 75.8          | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 3  | 2,384.000       | 47.32              | 74.00              | 26.68           | 5.73            | V            | 204.2         | 2.00               |
| 3  | 2,390.000       | 46.69              | 74.00              | 27.31           | 5.77            | V            | 74.6          | 1.00               |
| 3  | 2,428.500       | 98.17              |                    |                 | 5.94            | V            | 74.6          | 1.00               |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
2. 2422MHz: Fundamental frequency.



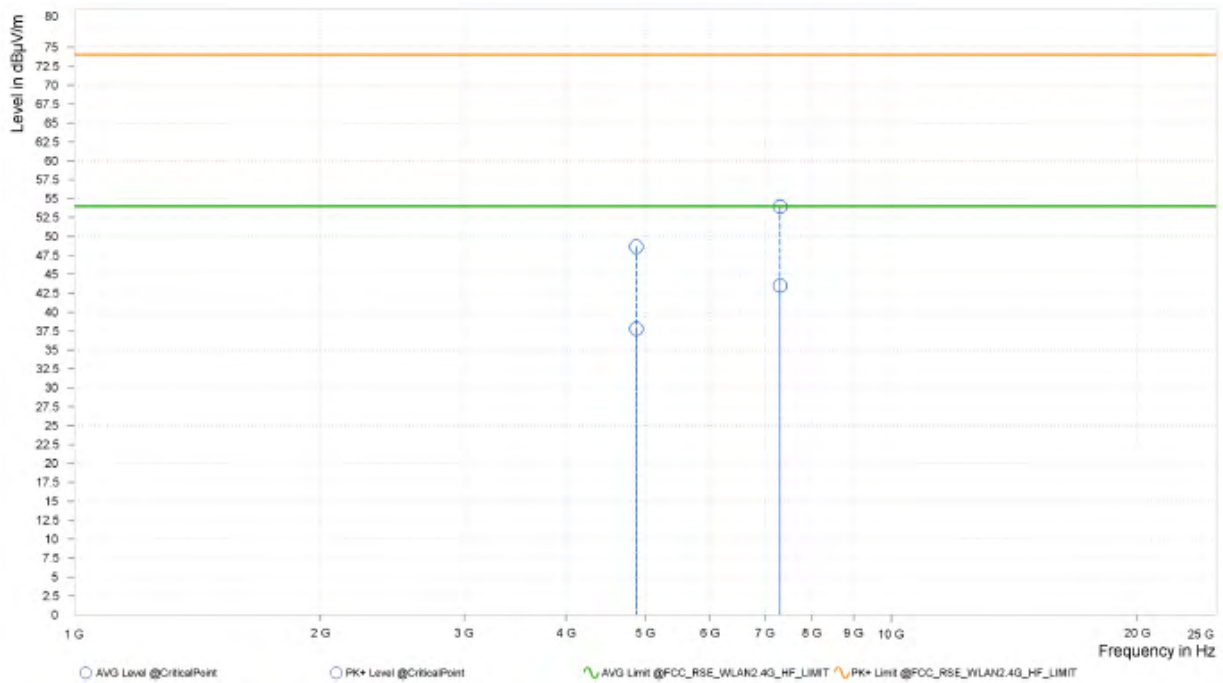


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**Test Report No.: PSU-NQN2405090215RF06**

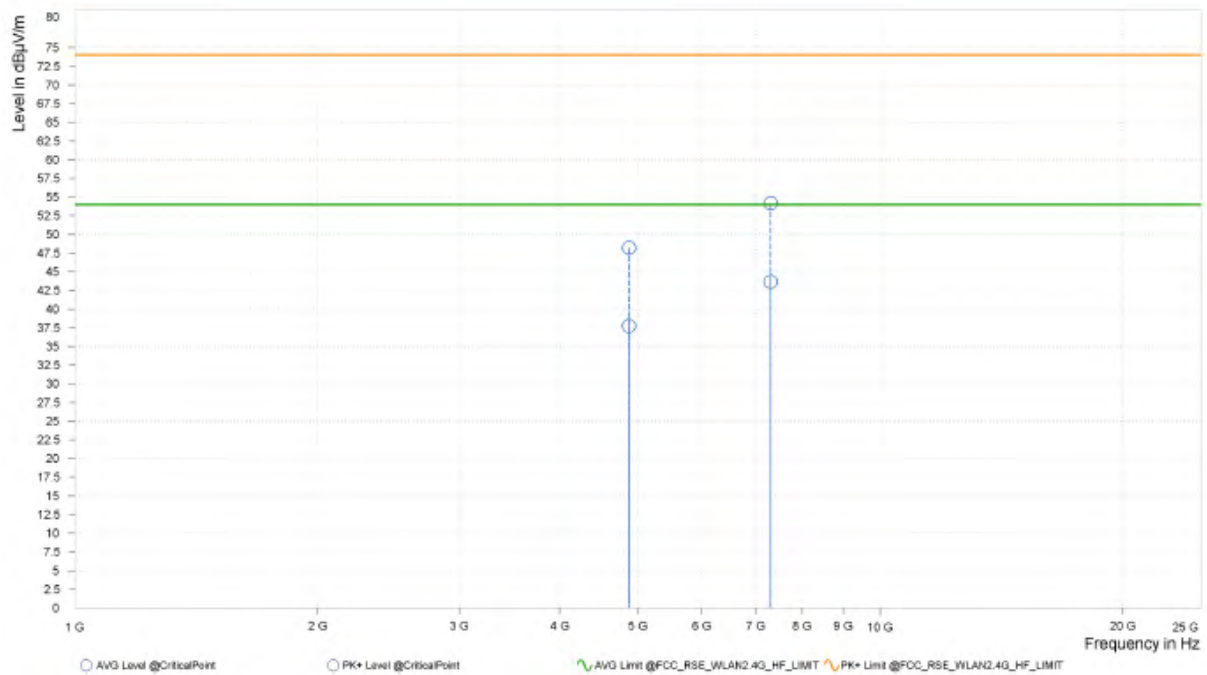
|                        |              |                          |              |
|------------------------|--------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 6 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |       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

| 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       | 48.66              | 74.00              | 25.34           | 37.82              | 54.00              | 16.18           | 13.53           | H            | 359           | 2.00               |
| 2  | 7,311.000       | 53.93              | 74.00              | 20.07           | 43.47              | 54.00              | 10.53           | 18.89           | H            | 0.9           | 2.00               |





| 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       | 48.19              | 74.00              | 25.81           | 37.74              | 54.00              | 16.26           | 13.53           | V            | 332.8         | 1.00               |
| 2  | 7,311.000       | 54.16              | 74.00              | 19.84           | 43.68              | 54.00              | 10.32           | 18.89           | V            | 1             | 2.00               |



**REMARKS:**

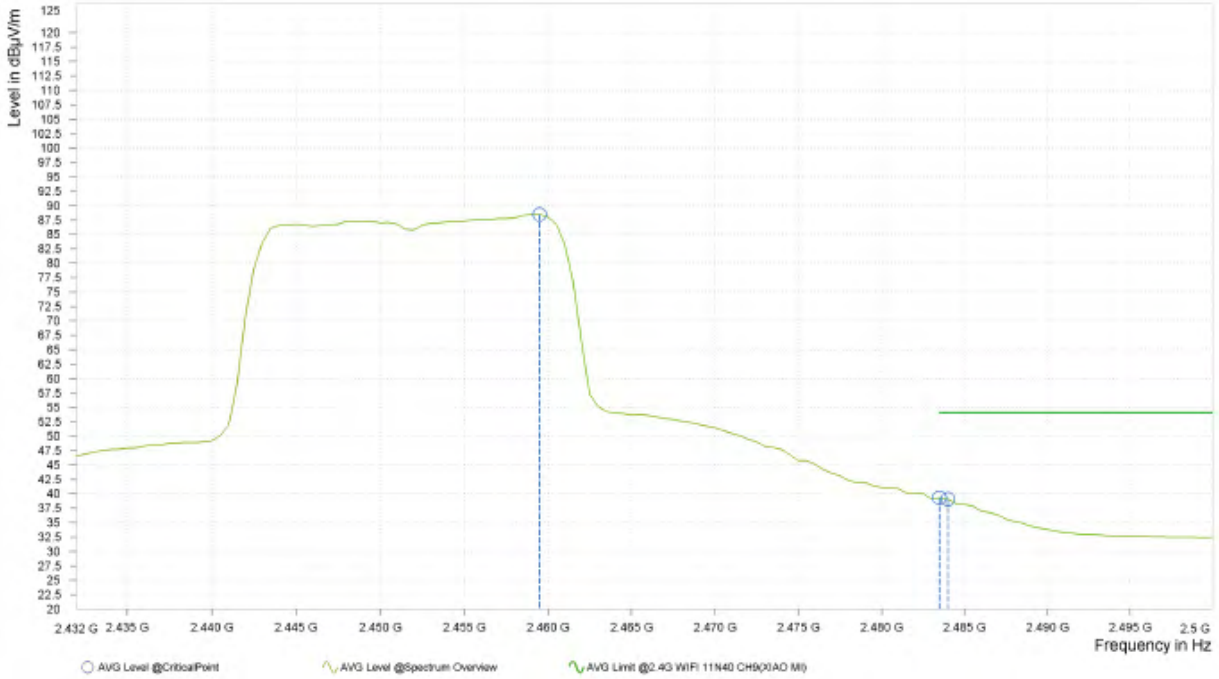
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
2. 2437MHz: Fundamental frequency.



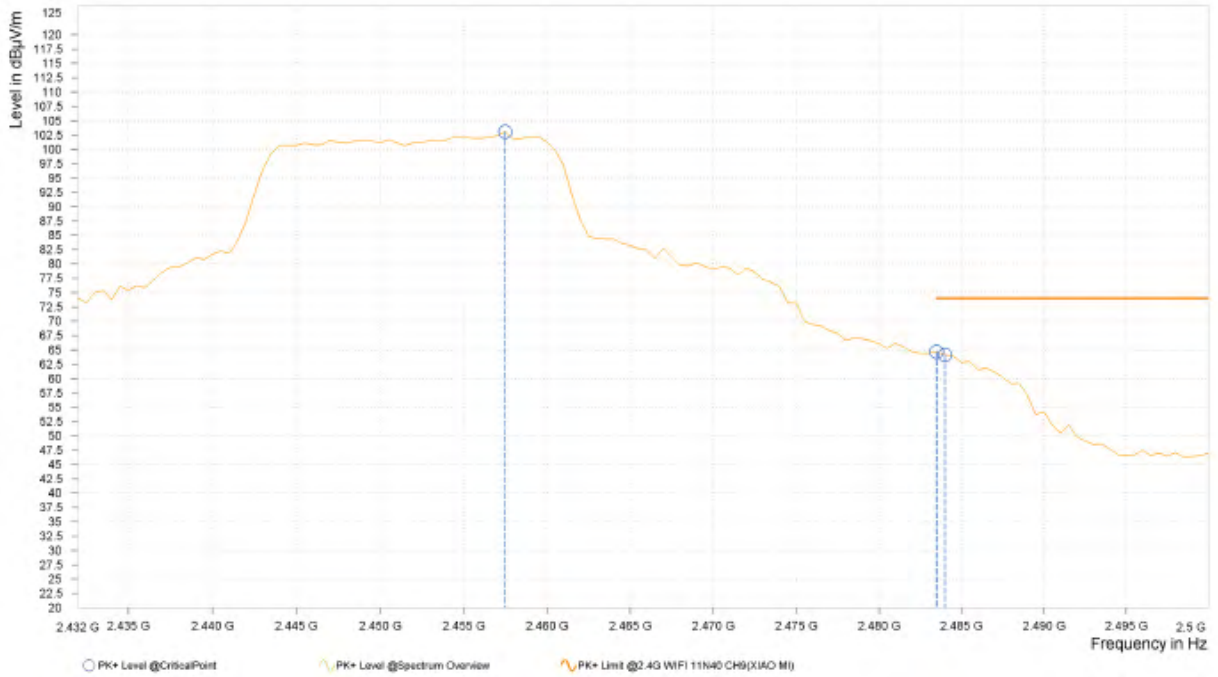
**BUREAU  
VERITAS**

**Test Report No.: PSU-NQN2405090215RF06**

|                        |              |                          |              |
|------------------------|--------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 9 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                          | Average (AV) |



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 4  | 2,459.500       | 88.48              |                    |                 | 5.84            | H            | 84.1          | 1.00               |
| 4  | 2,483.500       | 39.30              | 54.00              | 14.70           | 5.91            | H            | 121.6         | 2.00               |
| 4  | 2,484.000       | 39.07              | 54.00              | 14.93           | 5.92            | H            | 121.6         | 2.00               |

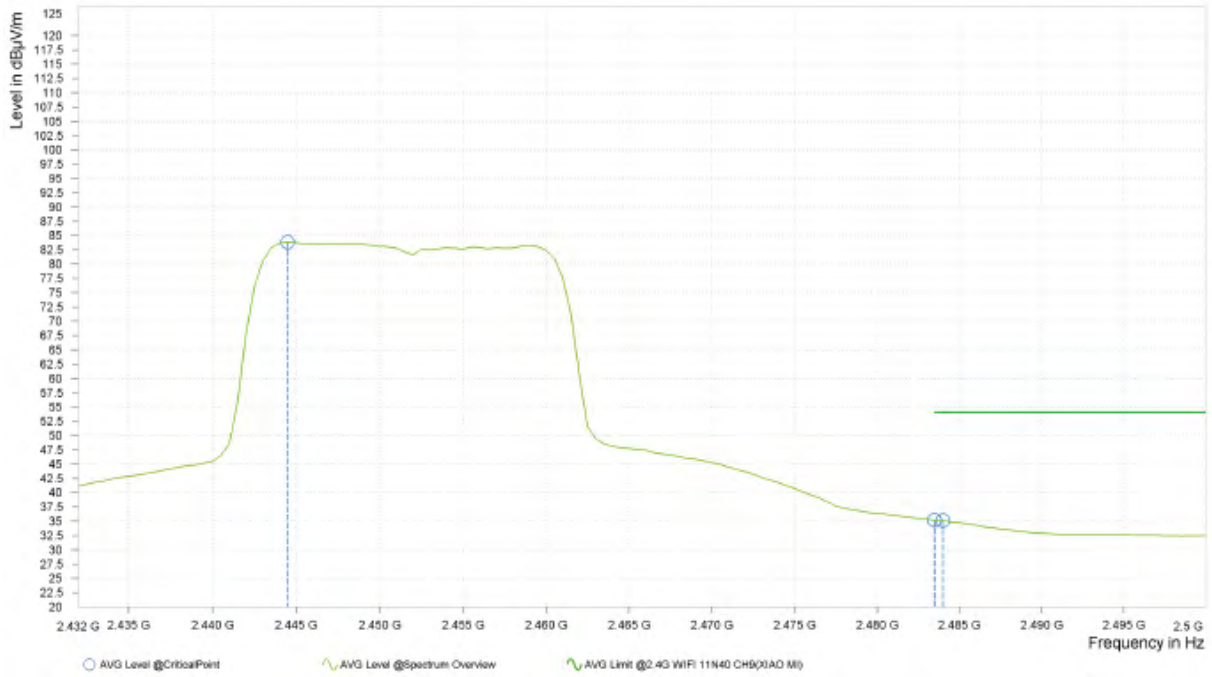


| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 4  | 2,457.500       | 103.08             |                    |                 | 5.85            | H            | 85.7          | 2.00               |
| 4  | 2,483.500       | 64.65              | 74.00              | 9.35            | 5.91            | H            | 5.6           | 1.00               |
| 4  | 2,484.000       | 64.14              | 74.00              | 9.86            | 5.92            | H            | 169.4         | 2.00               |

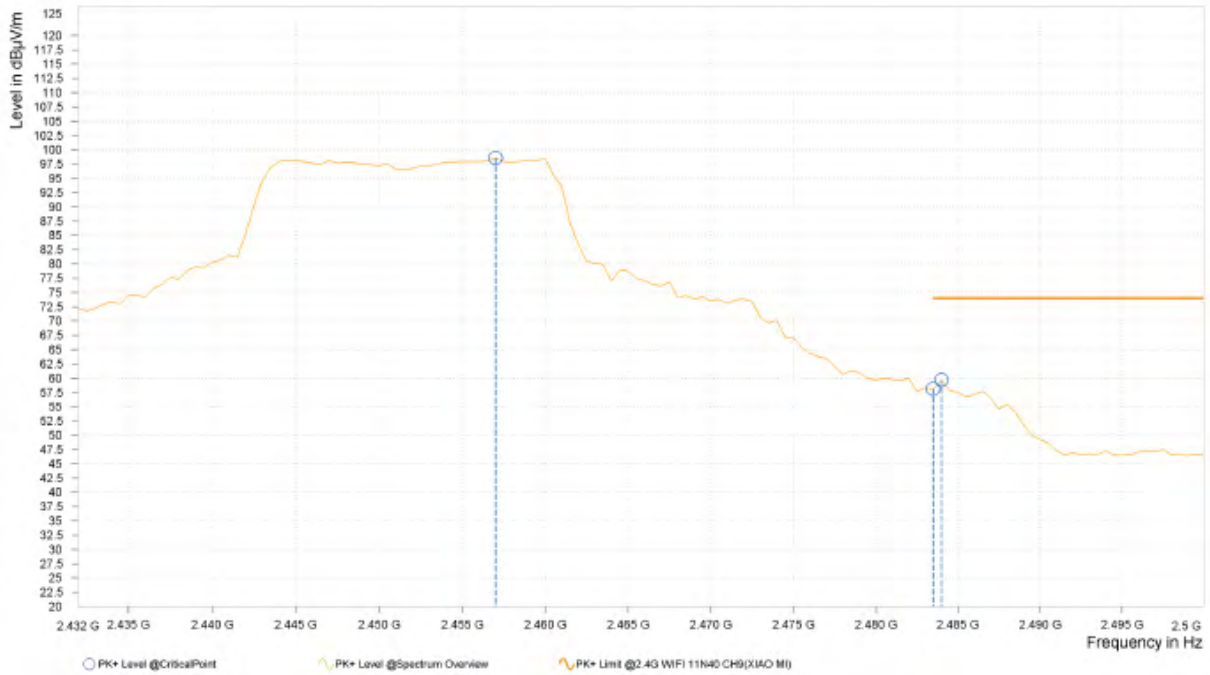


**BUREAU  
VERITAS**

**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 4  | 2,444.500       | 83.84              |                    |                 | 5.90            | V            | 74.6          | 1.00               |
| 4  | 2,483.500       | 35.17              | 54.00              | 18.83           | 5.91            | V            | 74.6          | 1.00               |
| 4  | 2,484.000       | 35.09              | 54.00              | 18.91           | 5.92            | V            | 74.6          | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 4  | 2,457.000       | 98.59              |                    |                 | 5.85            | V            | 77            | 1.00               |
| 4  | 2,483.500       | 58.11              | 74.00              | 15.89           | 5.91            | V            | 77            | 1.00               |
| 4  | 2,484.000       | 59.66              | 74.00              | 14.34           | 5.92            | V            | 77            | 1.00               |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
2. 2452MHz: Fundamental frequency.



**BELOW 1GHz WORST-CASE DATA:**

30 MHz – 1GHz data:

BT-LE\_S2

|                        |               |                               |                 |
|------------------------|---------------|-------------------------------|-----------------|
| <b>CHANNEL</b>         | TX Channel 19 | <b>ODETECTOR<br/>FUNCTION</b> | Quasi-Peak (QP) |
| <b>FREQUENCY RANGE</b> | 30MHz ~ 1GHz  |                               |                 |

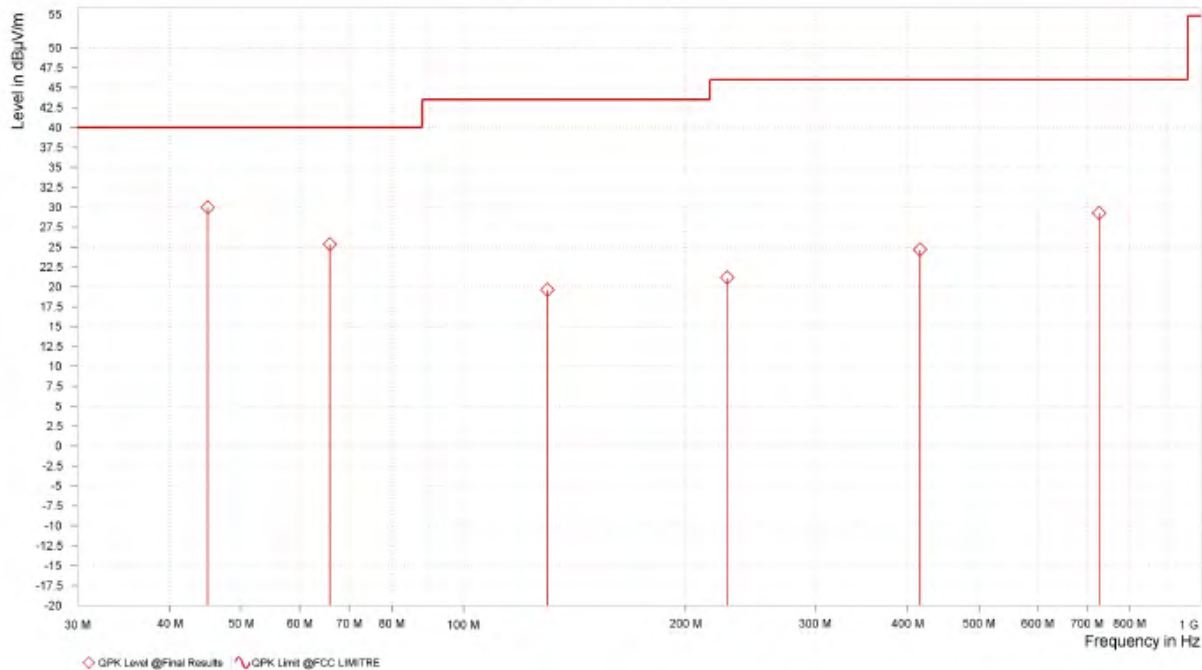
**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| 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  | 45.035          | 29.95              | 40.00              | 10.05           | -3.75           | H            | 166.6         | 1.00               | 120.000        |
| 1  | 65.890          | 25.32              | 40.00              | 14.68           | -6.86           | H            | 166.6         | 1.00               | 120.000        |
| 1  | 130.007         | 19.59              | 43.50              | 23.91           | -8.79           | H            | 335.2         | 1.00               | 120.000        |
| 1  | 227.880         | 21.13              | 46.00              | 24.87           | -3.90           | H            | 335.2         | 1.00               | 120.000        |
| 1  | 416.012         | 24.64              | 46.00              | 21.36           | 3.06            | H            | 359.1         | 1.00               | 120.000        |
| 1  | 727.964         | 29.24              | 46.00              | 16.76           | 4.07            | H            | 335.2         | 1.00               | 120.000        |

**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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Spectrum Overview





|                        |               |                          |                 |
|------------------------|---------------|--------------------------|-----------------|
| <b>CHANNEL</b>         | TX Channel 19 | <b>DETECTOR FUNCTION</b> | Quasi-Peak (QP) |
| <b>FREQUENCY RANGE</b> | 30MHz ~ 1GHz  |                          |                 |

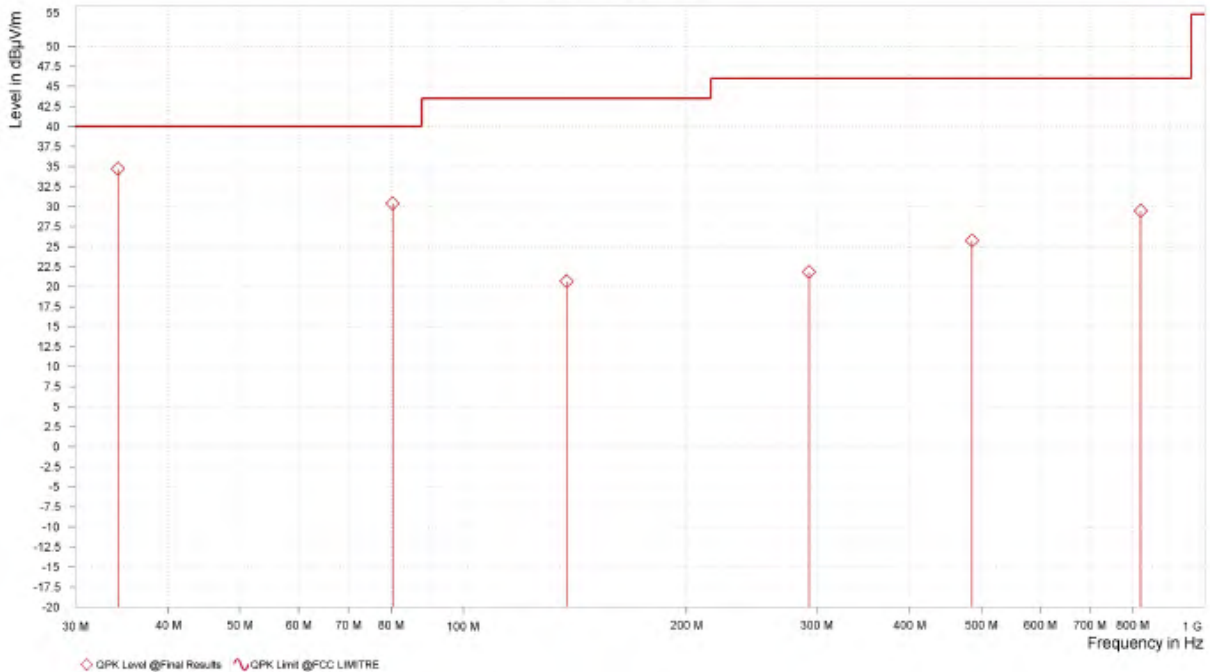
**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| 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  | 34.220          | 34.68              | 40.00              | 5.32            | -8.35           | V            | 1             | 1.00               | 120.000        |
| 1  | 80.343          | 30.38              | 40.00              | 9.62            | -10.77          | V            | 337.4         | 1.00               | 120.000        |
| 1  | 137.864         | 20.63              | 43.50              | 22.87           | -8.64           | V            | 1             | 1.00               | 120.000        |
| 1  | 292.870         | 21.82              | 46.00              | 24.18           | -1.44           | V            | 337.4         | 1.00               | 120.000        |
| 1  | 486.046         | 25.74              | 46.00              | 20.26           | 2.28            | V            | 4.9           | 1.00               | 120.000        |
| 1  | 820.744         | 29.44              | 46.00              | 16.56           | 5.18            | V            | 1             | 2.00               | 120.000        |

**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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Spectrum Overview







**ABOVE 1GHz TEST 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.

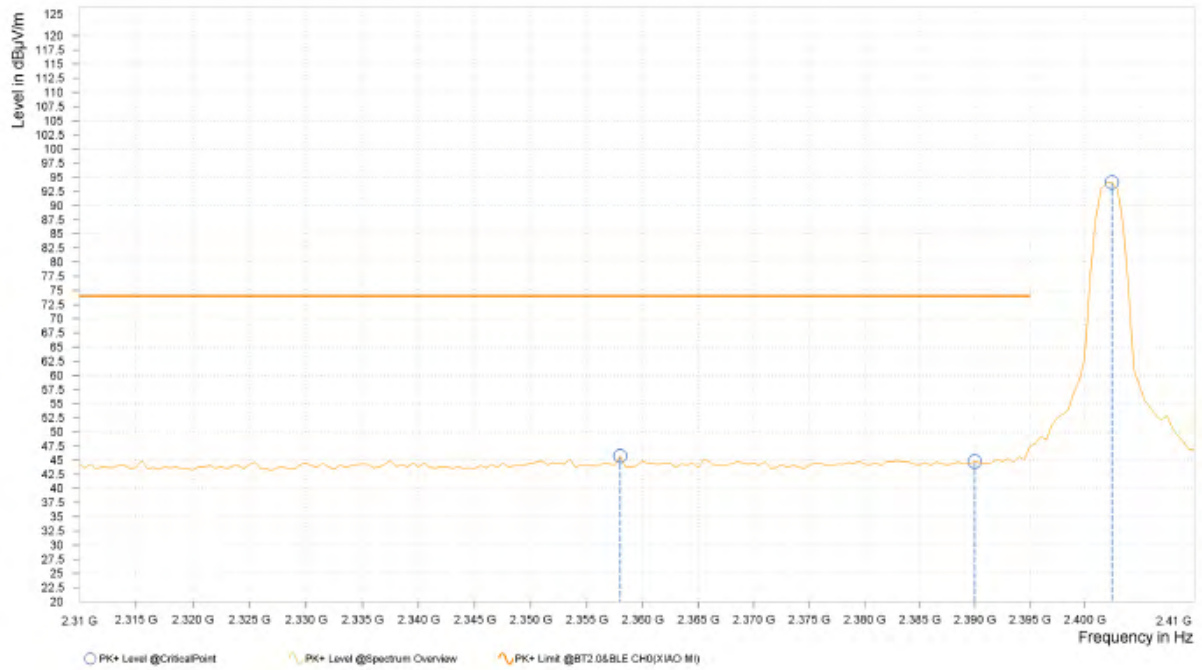
2. All other emissions were greater than 20dB below the limit was not recorded

**BT-LE \_1M**

|                        |              |                              |              |
|------------------------|--------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 0 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                              | Average (AV) |



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,382.000       | 30.62              | 54.00              | 23.38           | 5.71            | H            | 229.2         | 2.00               |
| 5  | 2,390.000       | 30.59              | 54.00              | 23.41           | 5.77            | H            | 331.6         | 1.00               |
| 5  | 2,402.000       | 87.65              |                    |                 | 5.85            | H            | 196.6         | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,358.000       | 45.73              | 74.00              | 28.27           | 5.61            | H            | 1             | 1.00               |
| 5  | 2,390.000       | 44.76              | 74.00              | 29.24           | 5.77            | H            | 359           | 1.00               |
| 5  | 2,402.500       | 94.07              |                    |                 | 5.86            | H            | 197.8         | 1.00               |



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,383.000       | 30.62              | 54.00              | 23.38           | 5.72            | V            | 210           | 2.00               |
| 5  | 2,390.000       | 30.54              | 54.00              | 23.46           | 5.77            | V            | 356.8         | 1.00               |
| 5  | 2,402.000       | 82.67              |                    |                 | 5.85            | V            | 283.8         | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,354.000       | 45.07              | 74.00              | 28.93           | 5.60            | V            | 61.4          | 1.00               |
| 5  | 2,390.000       | 44.78              | 74.00              | 29.22           | 5.77            | V            | 296.2         | 2.00               |
| 5  | 2,402.000       | 88.28              |                    |                 | 5.85            | V            | 358.2         | 1.00               |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
2. 2402MHz: Fundamental frequency.

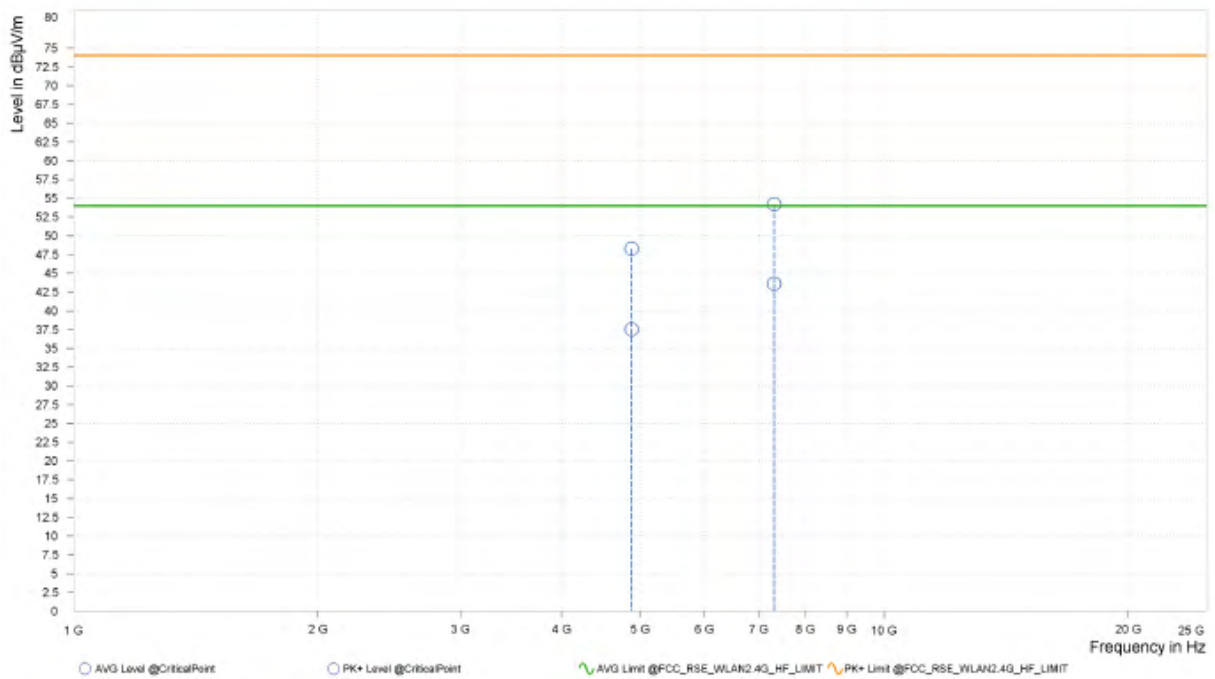


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**Test Report No.: PSU-NQN2405090215RF06**

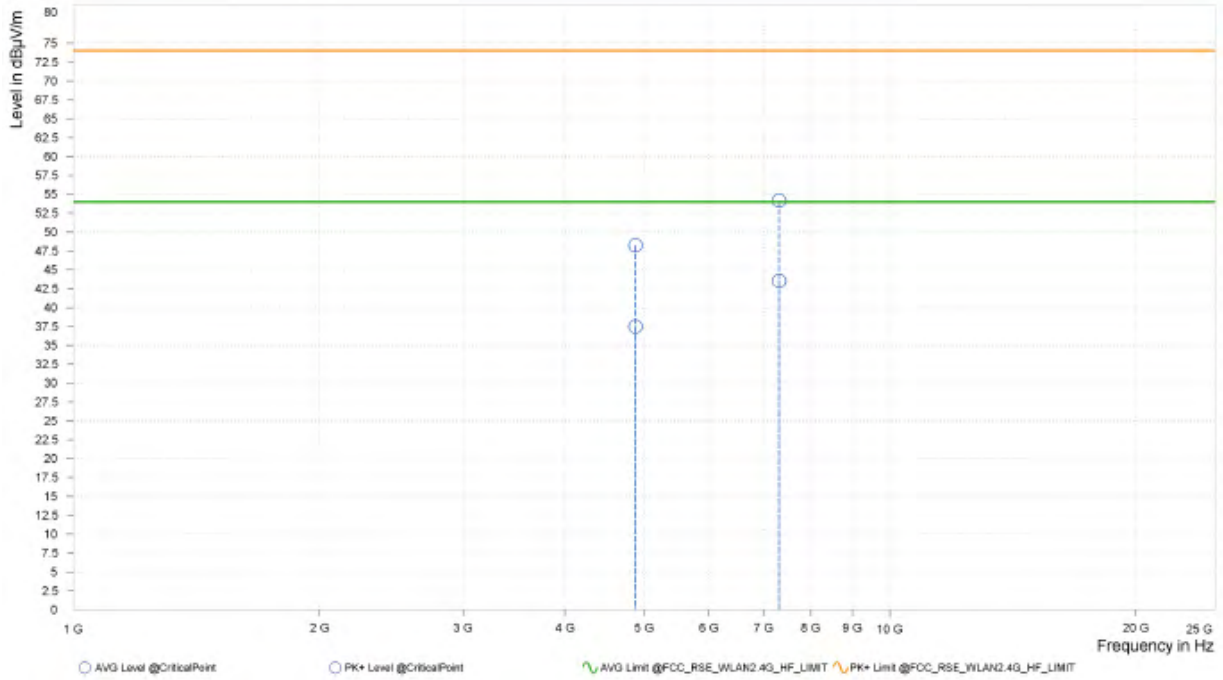
|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 19 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz  |                              | Average (AV) |

| 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  | 4,880.000       | 48.28              | 74.00              | 25.72           | 37.54              | 54.00              | 16.46           | 13.54           | H            | 359           | 2.00               |
| 2  | 7,320.000       | 54.19              | 74.00              | 19.81           | 43.61              | 54.00              | 10.39           | 18.90           | H            | 359           | 2.00               |





| 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  | 4,880.000       | 48.24              | 74.00              | 25.76           | 37.47              | 54.00              | 16.53           | 13.54           | V            | 9.4           | 2.00               |
| 2  | 7,320.000       | 54.16              | 74.00              | 19.84           | 43.56              | 54.00              | 10.44           | 18.90           | V            | 268.7         | 2.00               |



**REMARKS:**

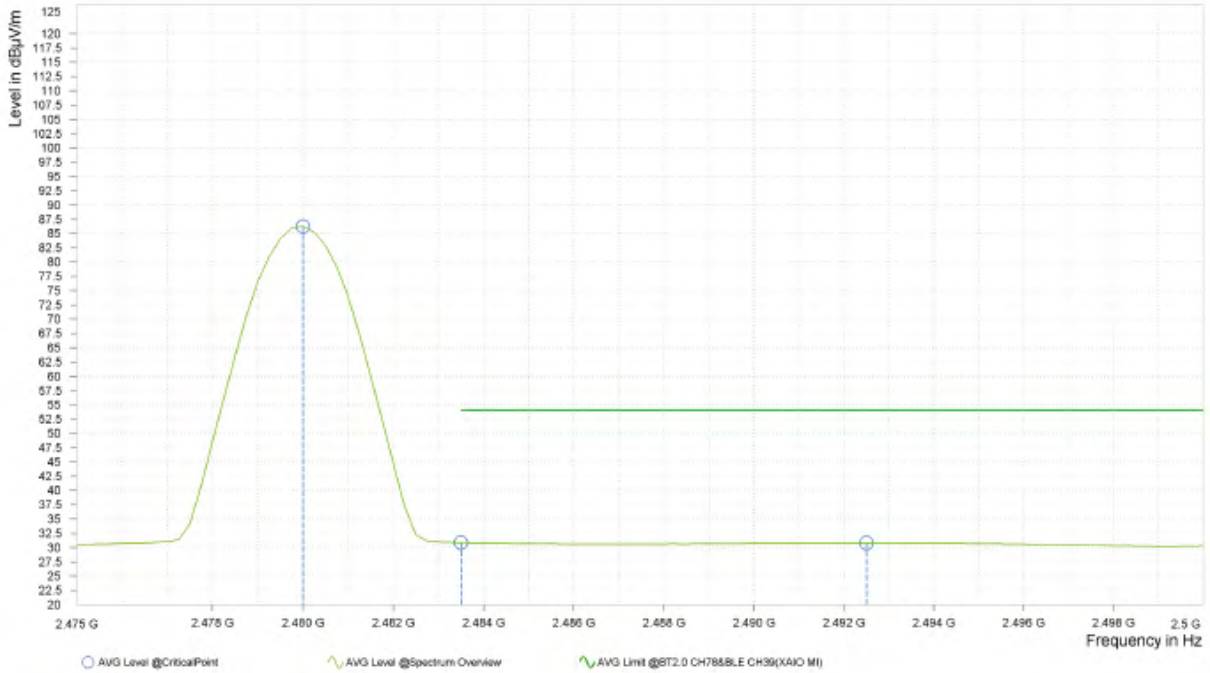
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
2. 2440MHz: Fundamental frequency.



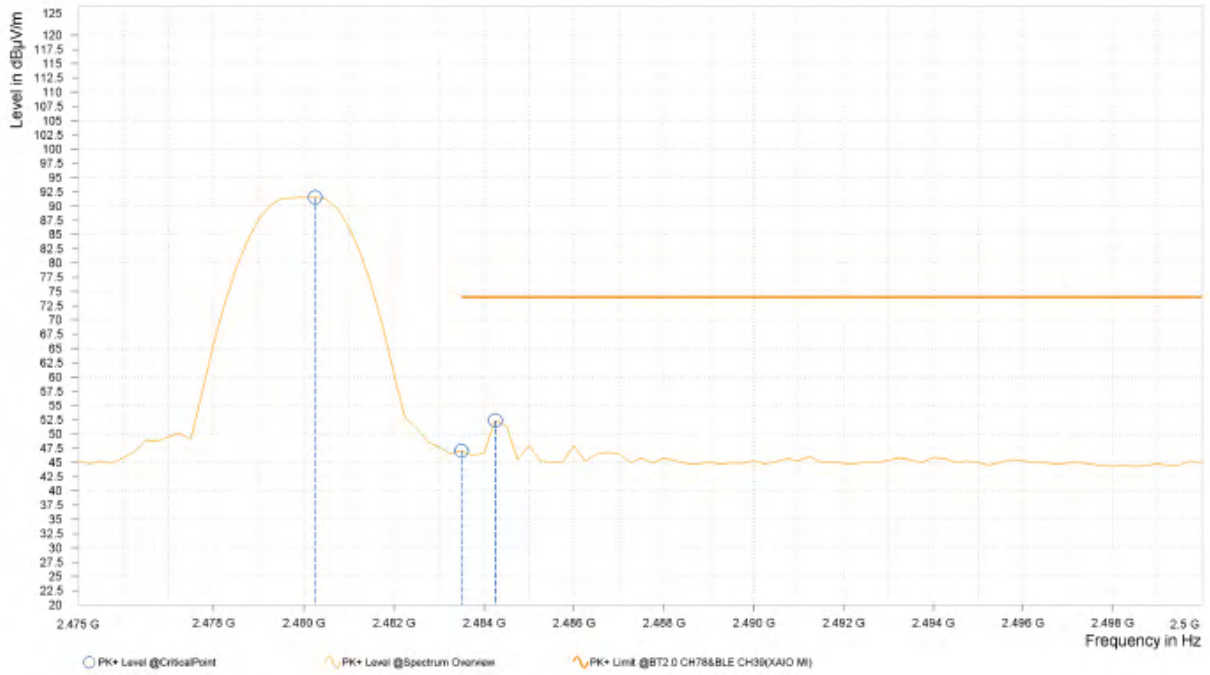
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**Test Report No.: PSU-NQN2405090215RF06**

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 39 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz  |                              | Average (AV) |

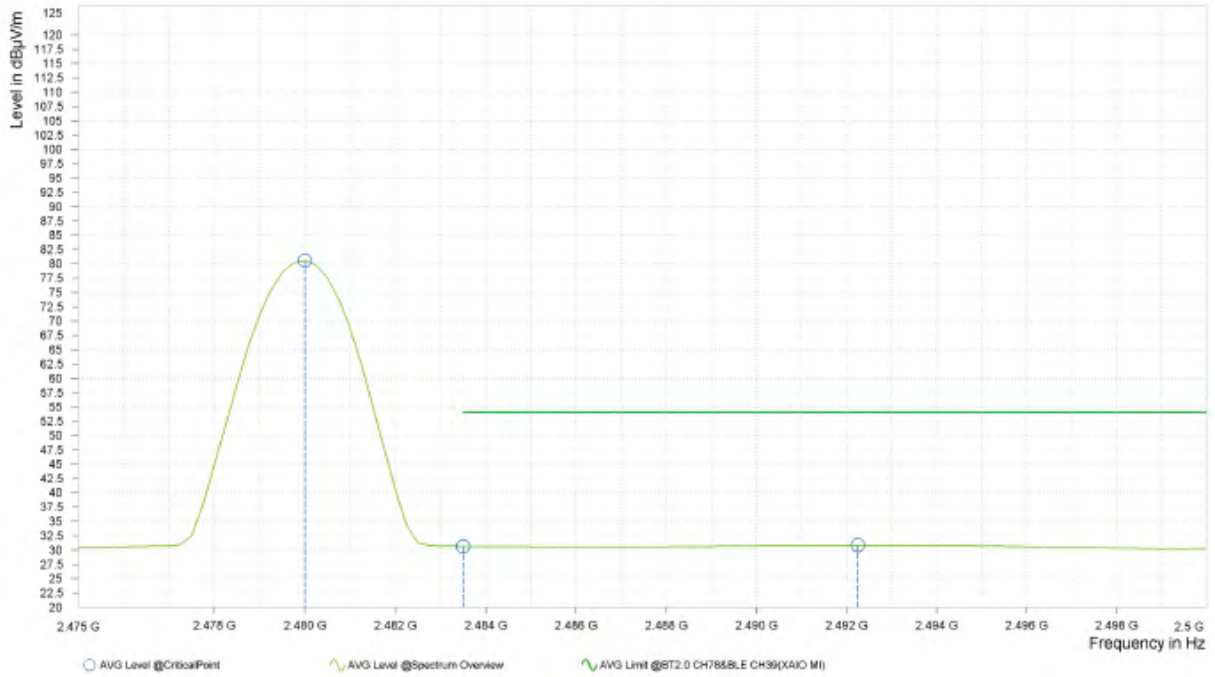


| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,480.000       | 86.26              |                    |                 | 5.89            | H            | 180.9         | 1.00               |
| 6  | 2,483.500       | 30.86              | 54.00              | 23.14           | 5.91            | H            | 180.9         | 1.00               |
| 6  | 2,492.500       | 30.82              | 54.00              | 23.18           | 5.97            | H            | 180.9         | 1.00               |

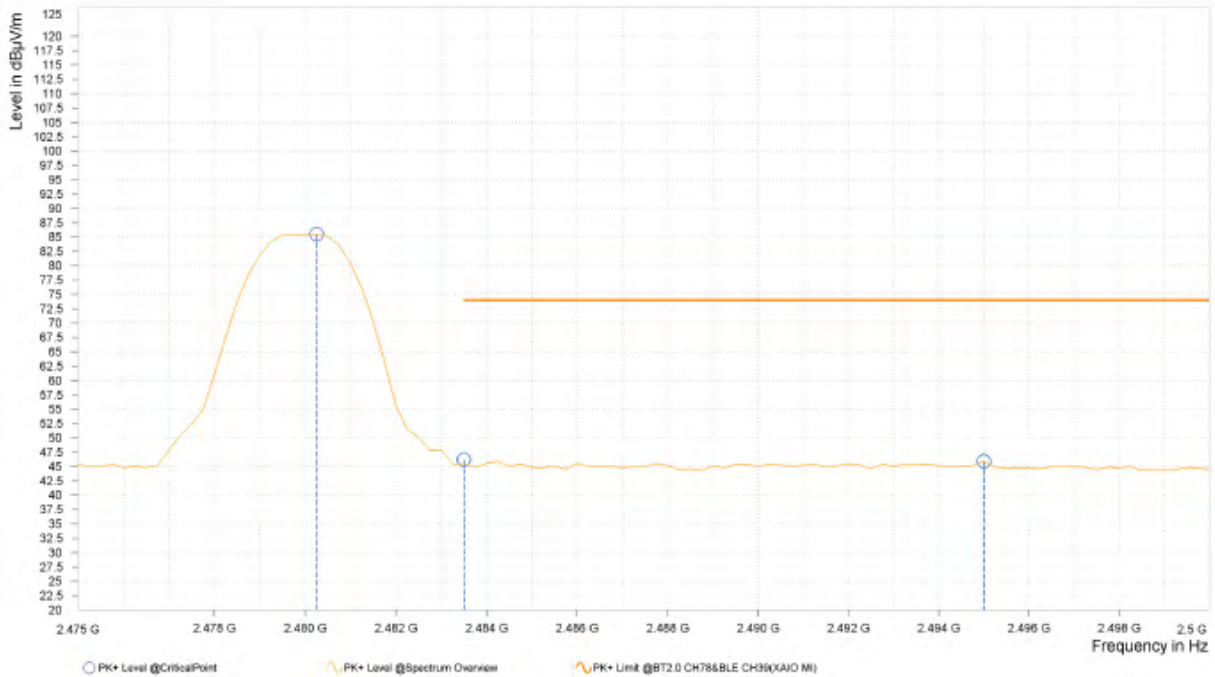


| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,480.250       | 91.57              |                    |                 | 5.89            | H            | 178.6         | 1.00               |
| 6  | 2,483.500       | 47.03              | 74.00              | 26.97           | 5.91            | H            | 270.6         | 1.00               |
| 6  | 2,484.250       | 52.39              | 74.00              | 21.61           | 5.92            | H            | 178.6         | 1.00               |





| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,480.000       | 80.59              |                    |                 | 5.89            | V            | 274.2         | 1.00               |
| 6  | 2,483.500       | 30.63              | 54.00              | 23.37           | 5.91            | V            | 274.2         | 1.00               |
| 6  | 2,492.250       | 30.83              | 54.00              | 23.17           | 5.97            | V            | 88.9          | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,480.250       | 85.51              |                    |                 | 5.89            | V            | 273           | 1.00               |
| 6  | 2,483.500       | 46.21              | 74.00              | 27.79           | 5.91            | V            | 0.9           | 2.00               |
| 6  | 2,495.000       | 45.94              | 74.00              | 28.06           | 5.99            | V            | 176.6         | 2.00               |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
- 2480MHz: Fundamental frequency.



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Test Report No.: PSU-NQN2405090215RF06

**BT-LE\_2M**

|                        |              |                              |              |
|------------------------|--------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 1 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                              | Average (AV) |



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,382.500       | 30.58              | 54.00              | 23.42           | 5.72            | H            | 359           | 2.00               |
| 5  | 2,390.000       | 30.53              | 54.00              | 23.47           | 5.77            | H            | 72.6          | 2.00               |
| 5  | 2,402.000       | 81.73              |                    |                 | 5.85            | H            | 332.7         | 1.00               |



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**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,363.500       | 46.13              | 74.00              | 27.87           | 5.62            | H            | 355.1         | 2.00               |
| 5  | 2,390.000       | 44.49              | 74.00              | 29.51           | 5.77            | H            | 359           | 2.00               |
| 5  | 2,402.500       | 93.91              |                    |                 | 5.86            | H            | 196.5         | 1.00               |



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**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,381.500       | 30.63              | 54.00              | 23.37           | 5.71            | V            | 358.6         | 1.00               |
| 5  | 2,390.000       | 30.55              | 54.00              | 23.45           | 5.77            | V            | 130.7         | 1.00               |
| 5  | 2,402.000       | 77.29              |                    |                 | 5.85            | V            | 267           | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,350.000       | 45.51              | 74.00              | 28.49           | 5.59            | V            | 163.4         | 2.00               |
| 5  | 2,390.000       | 44.30              | 74.00              | 29.70           | 5.77            | V            | 197.8         | 1.00               |
| 5  | 2,402.500       | 88.21              |                    |                 | 5.86            | V            | 332.8         | 1.00               |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
2. 2402MHz: Fundamental frequency.

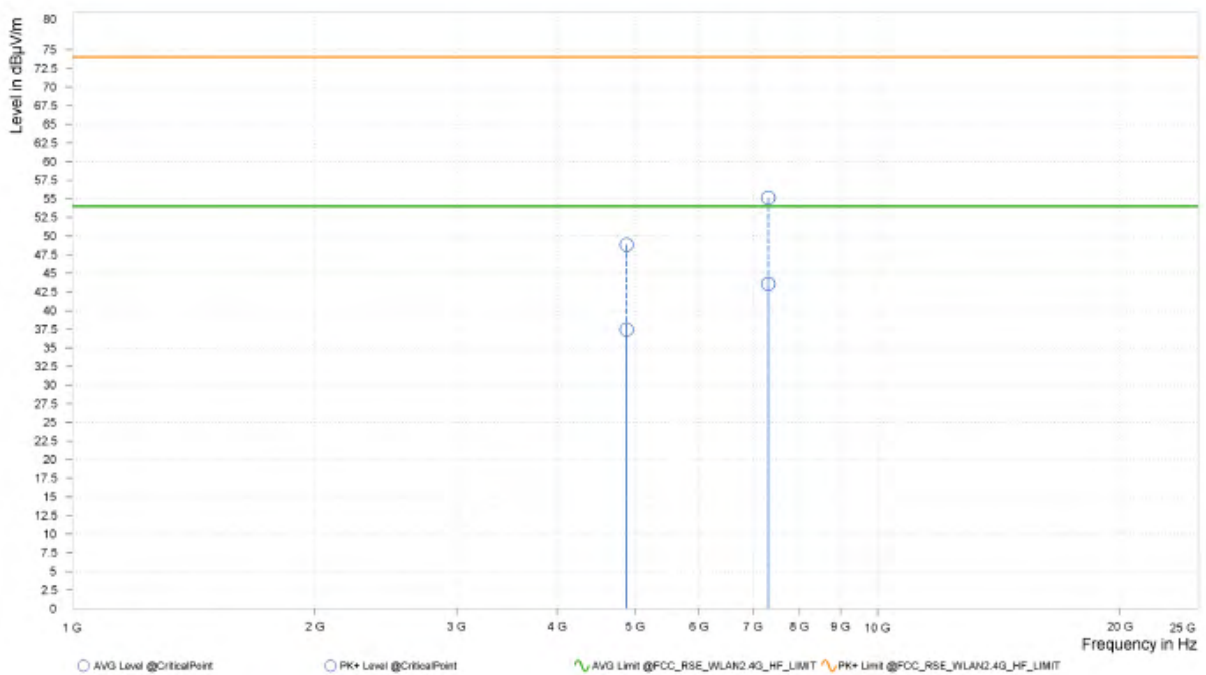


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**Test Report No.: PSU-NQN2405090215RF06**

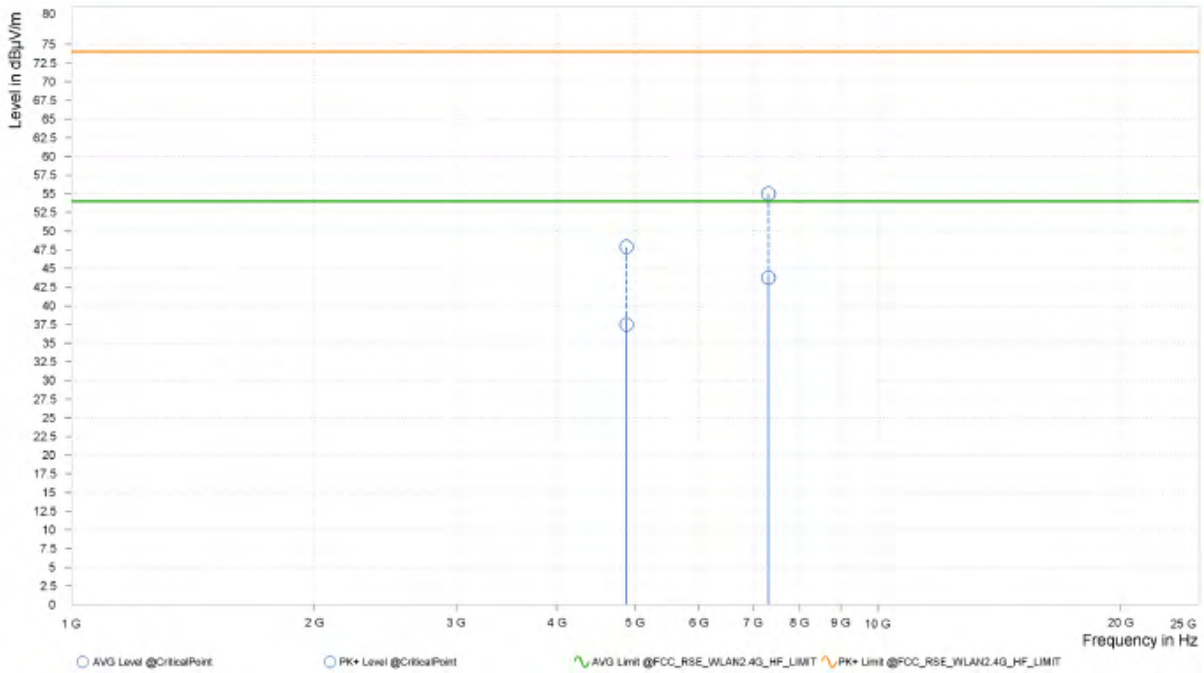
|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 19 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz  |                              | Average (AV) |

| 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  | 4,880.000       | 48.84              | 74.00              | 25.16           | 37.44              | 54.00              | 16.56           | 13.54           | H            | 359           | 2.00               |
| 2  | 7,320.000       | 55.13              | 74.00              | 18.87           | 43.59              | 54.00              | 10.41           | 18.90           | H            | 10.6          | 2.00               |





| 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  | 4,880.000       | 47.89              | 74.00              | 26.11           | 37.47              | 54.00              | 16.53           | 13.54           | V            | 268.7         | 2.00               |
| 2  | 7,320.000       | 55.00              | 74.00              | 19.00           | 43.75              | 54.00              | 10.25           | 18.90           | V            | 9.9           | 2.00               |



**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
2. 2440MHz: Fundamental frequency.

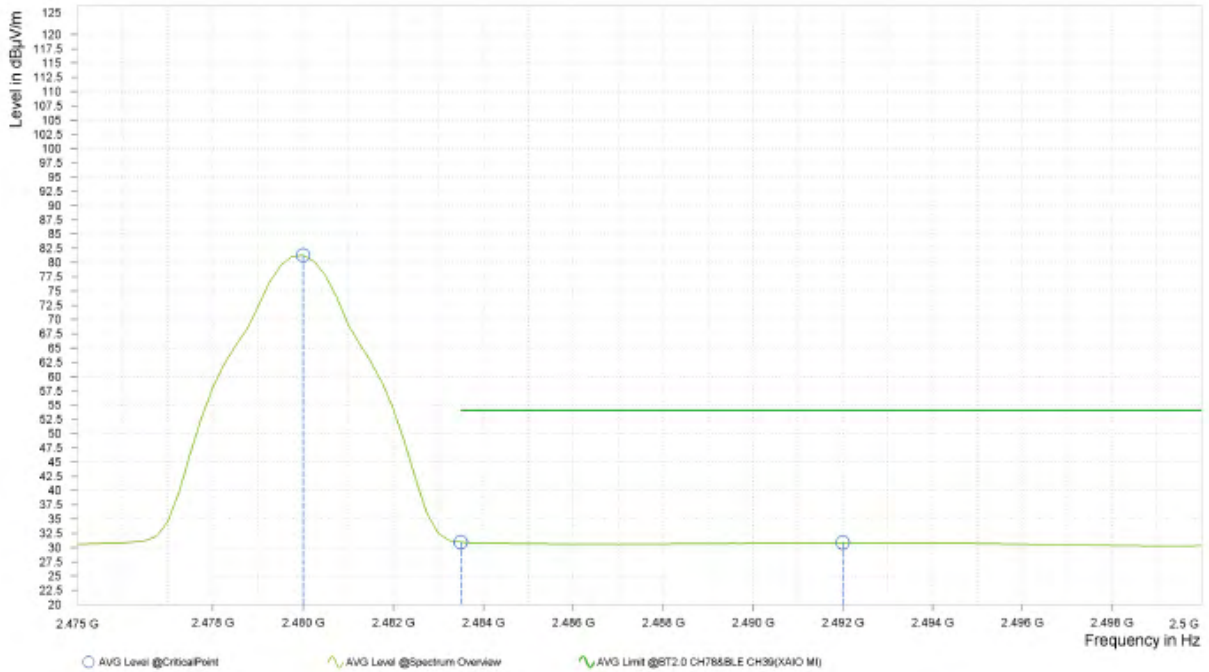




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**Test Report No.: PSU-NQN2405090215RF06**

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 38 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz  |                              | Average (AV) |

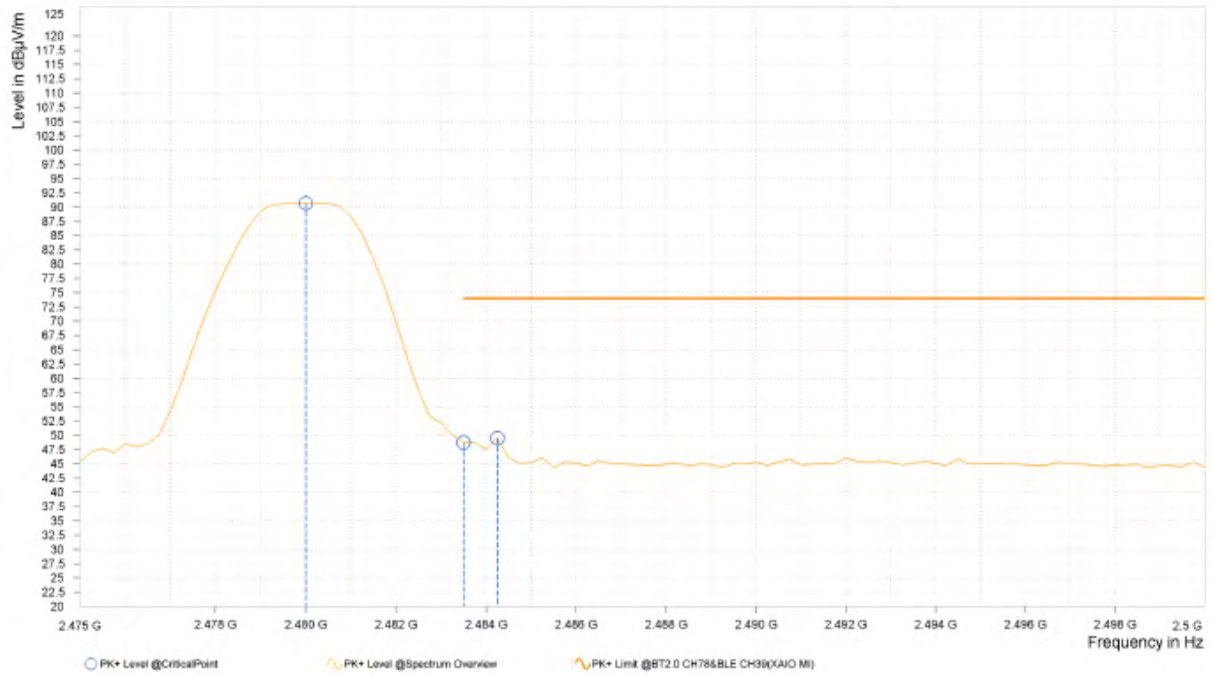


| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,480.000       | 81.28              |                    |                 | 5.89            | H            | 194.2         | 1.00               |
| 6  | 2,483.500       | 30.93              | 54.00              | 23.07           | 5.91            | H            | 271           | 2.00               |
| 6  | 2,492.000       | 30.83              | 54.00              | 23.17           | 5.97            | H            | 271           | 2.00               |



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**Test Report No.: PSU-NQN2405090215RF06**

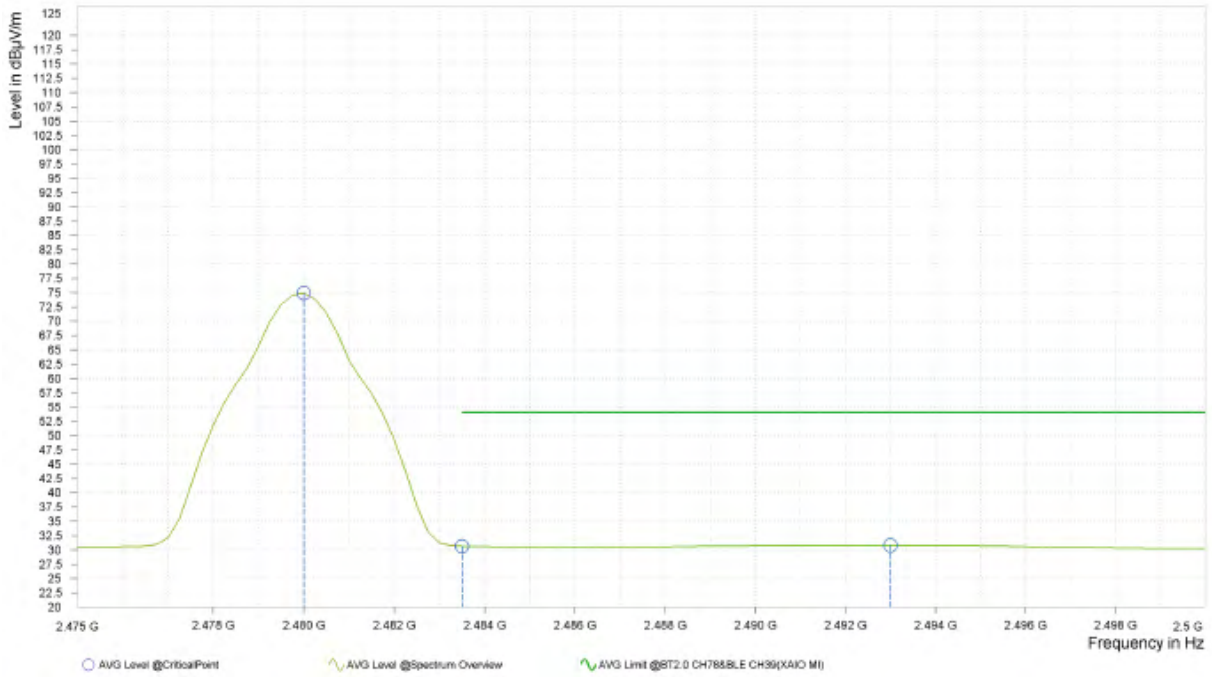


| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,480.000       | 90.69              |                    |                 | 5.89            | H            | 272.3         | 2.00               |
| 6  | 2,483.500       | 48.71              | 74.00              | 25.29           | 5.91            | H            | 5.5           | 1.00               |
| 6  | 2,484.250       | 49.50              | 74.00              | 24.50           | 5.92            | H            | 1             | 1.00               |



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**Test Report No.: PSU-NQN2405090215RF06**

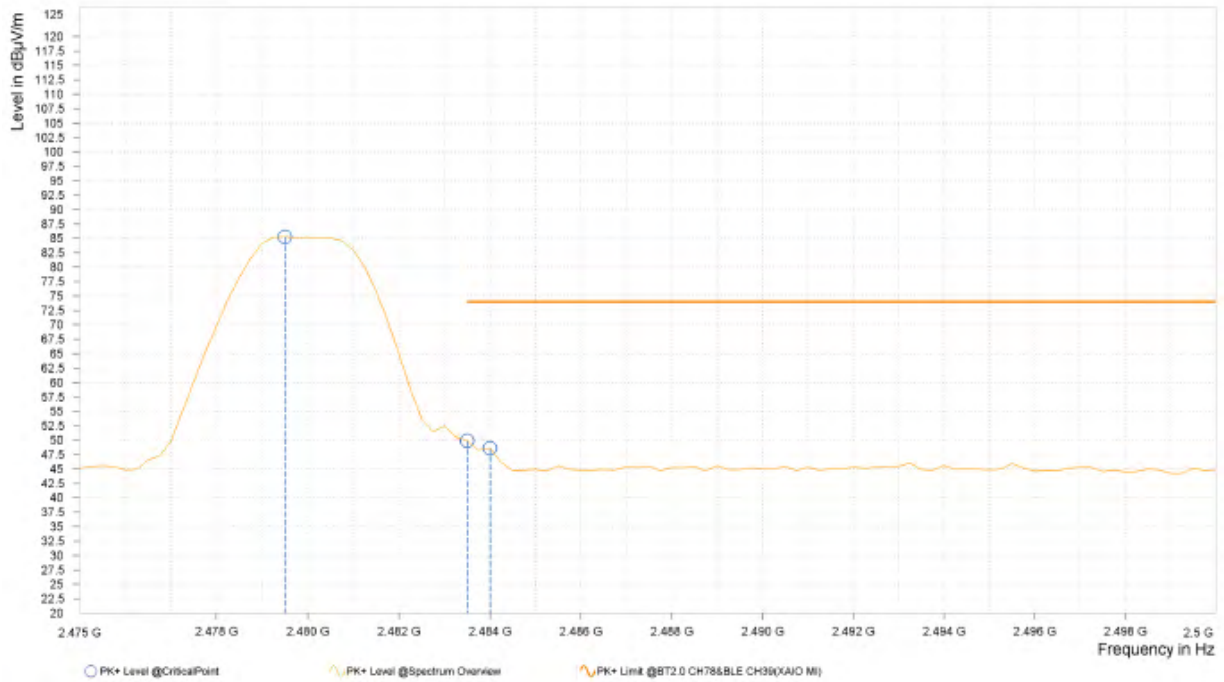


| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,480.000       | 74.93              |                    |                 | 5.89            | V            | 1             | 1.00               |
| 6  | 2,483.500       | 30.65              | 54.00              | 23.35           | 5.91            | V            | 275.4         | 1.00               |
| 6  | 2,493.000       | 30.82              | 54.00              | 23.18           | 5.98            | V            | 1             | 2.00               |



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**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,479.500       | 85.26              |                    |                 | 5.89            | V            | 177.8         | 2.00               |
| 6  | 2,483.500       | 49.89              | 74.00              | 24.11           | 5.91            | V            | 225.1         | 1.00               |
| 6  | 2,484.000       | 48.62              | 74.00              | 25.38           | 5.92            | V            | 177.8         | 2.00               |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
2. 2480MHz: Fundamental frequency.



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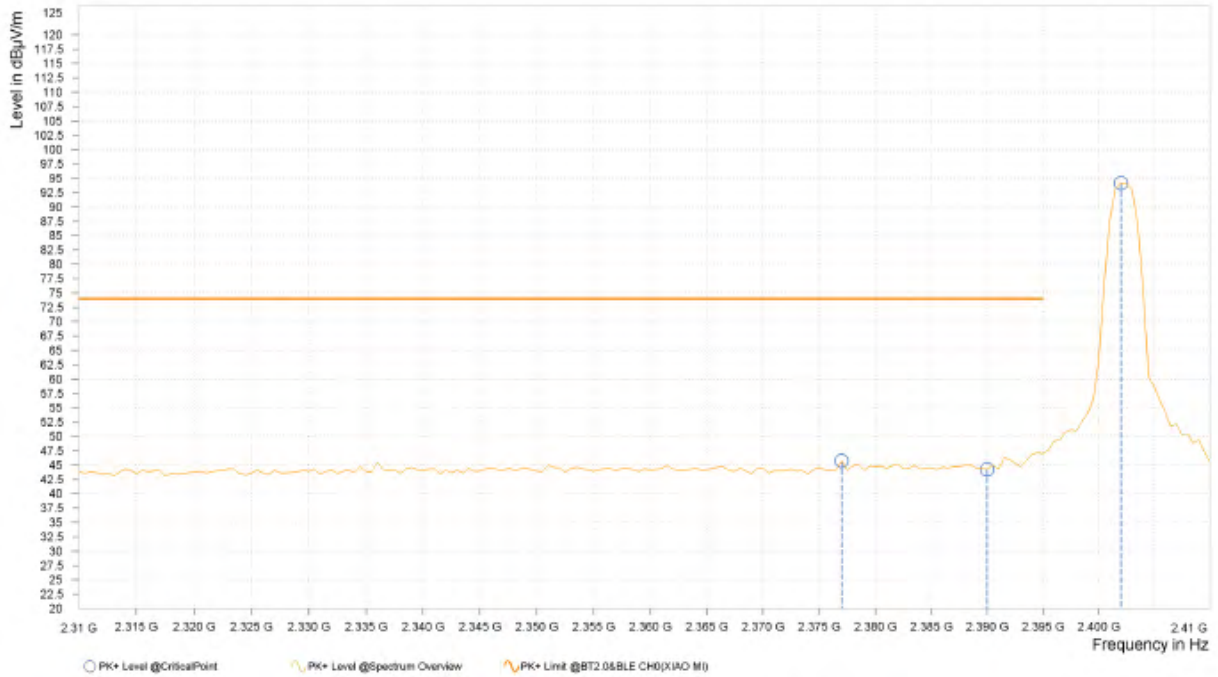
Test Report No.: PSU-NQN2405090215RF06

**BT-LE\_S2**

|                        |              |                              |              |
|------------------------|--------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 0 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                              | Average (AV) |



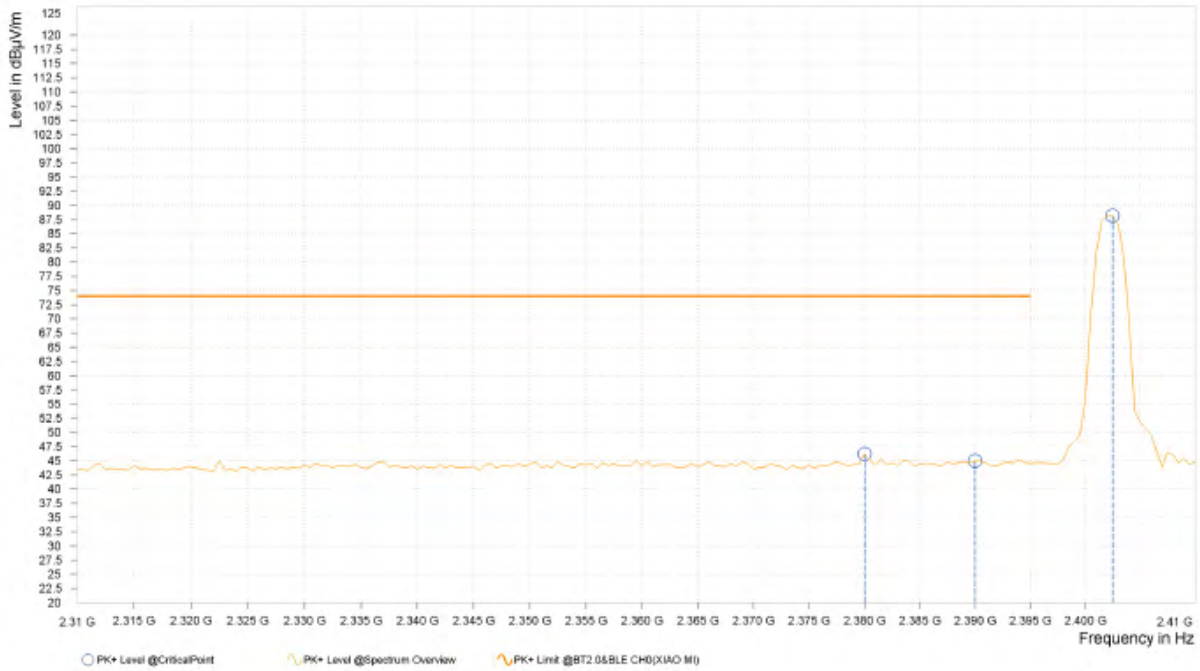
| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,382.000       | 30.64              | 54.00              | 23.36           | 5.71            | H            | 359.1         | 1.00               |
| 5  | 2,390.000       | 30.56              | 54.00              | 23.44           | 5.77            | H            | 208.5         | 1.00               |
| 5  | 2,402.000       | 86.78              |                    |                 | 5.85            | H            | 208.5         | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,377.000       | 45.71              | 74.00              | 28.29           | 5.68            | H            | 359.1         | 1.00               |
| 5  | 2,390.000       | 44.25              | 74.00              | 29.75           | 5.77            | H            | 1.1           | 2.00               |
| 5  | 2,402.000       | 94.14              |                    |                 | 5.85            | H            | 200.2         | 1.00               |



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,382.500       | 30.61              | 54.00              | 23.39           | 5.72            | V            | 4.9           | 1.00               |
| 5  | 2,390.000       | 30.54              | 54.00              | 23.46           | 5.77            | V            | 359.1         | 1.00               |
| 5  | 2,402.000       | 81.76              |                    |                 | 5.85            | V            | 359.1         | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,380.000       | 46.23              | 74.00              | 27.77           | 5.70            | V            | 359           | 2.00               |
| 5  | 2,390.000       | 44.95              | 74.00              | 29.05           | 5.77            | V            | 201.4         | 1.00               |
| 5  | 2,402.500       | 88.17              |                    |                 | 5.86            | V            | 359.1         | 1.00               |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
2. 2402MHz: Fundamental frequency.



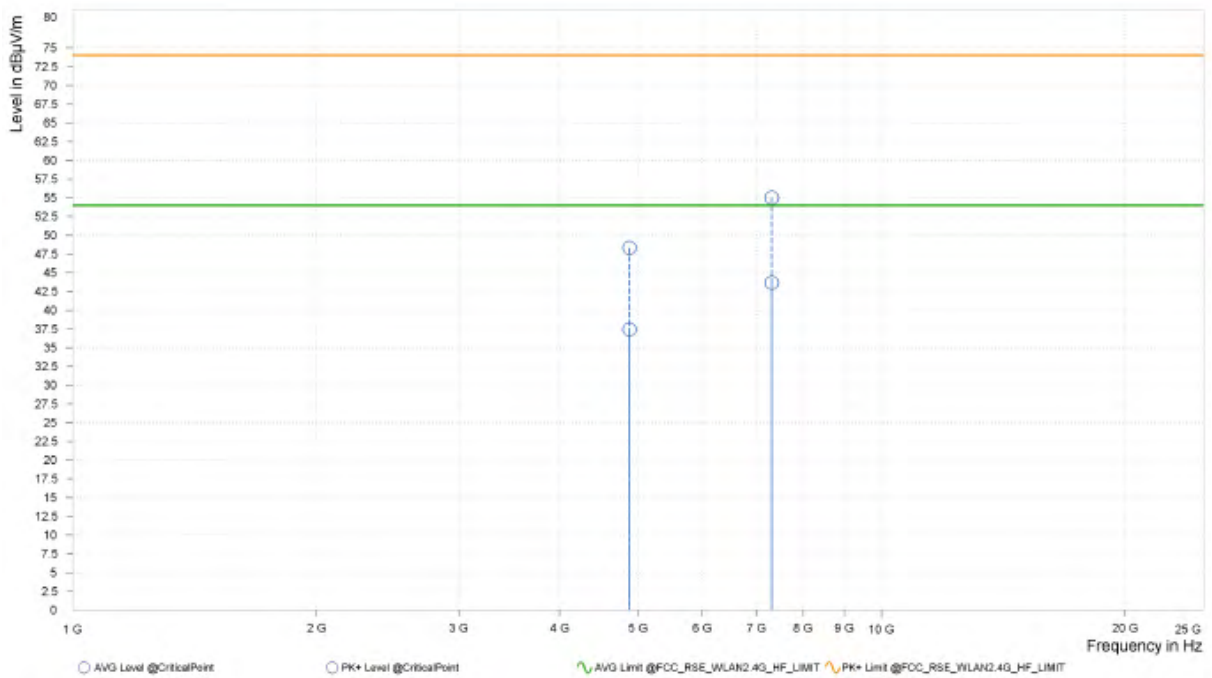


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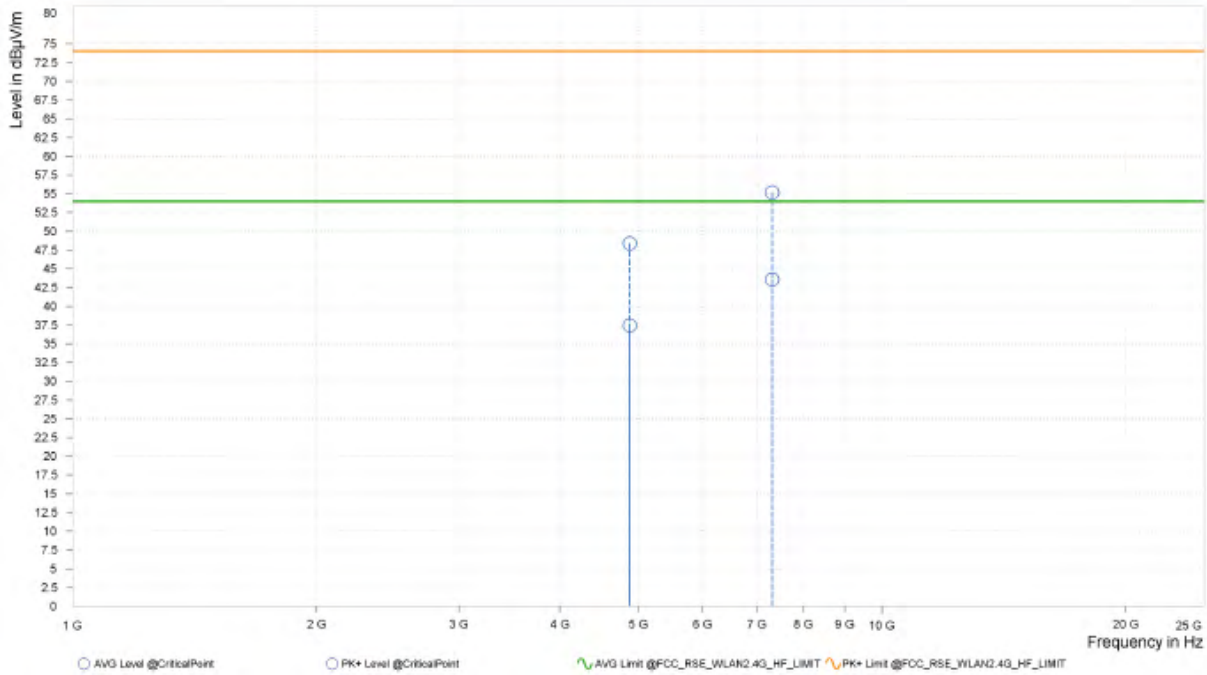
|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 19 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz  |                              | Average (AV) |

| 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  | 4,880.000       | 48.33              | 74.00              | 25.67           | 37.44              | 54.00              | 16.56           | 13.54           | H            | 0.9           | 2.00               |
| 2  | 7,320.000       | 55.01              | 74.00              | 18.99           | 43.69              | 54.00              | 10.31           | 18.90           | H            | 0.9           | 2.00               |





| 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  | 4,880.000       | 48.40              | 74.00              | 25.60           | 37.44              | 54.00              | 16.56           | 13.54           | V            | 9.9           | 2.00               |
| 2  | 7,320.000       | 55.20              | 74.00              | 18.80           | 43.58              | 54.00              | 10.42           | 18.90           | V            | 359           | 2.00               |



**REMARKS:**

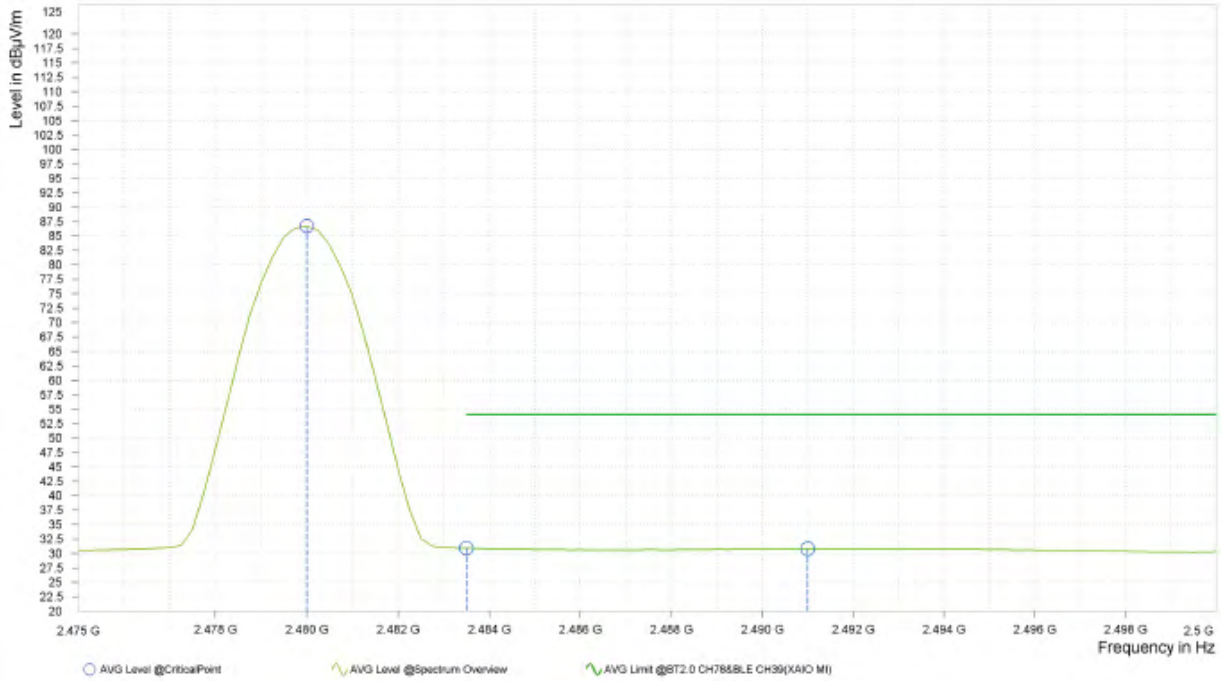
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
2. 2440MHz: Fundamental frequency.



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**Test Report No.: PSU-NQN2405090215RF06**

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 39 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz  |                              | Average (AV) |

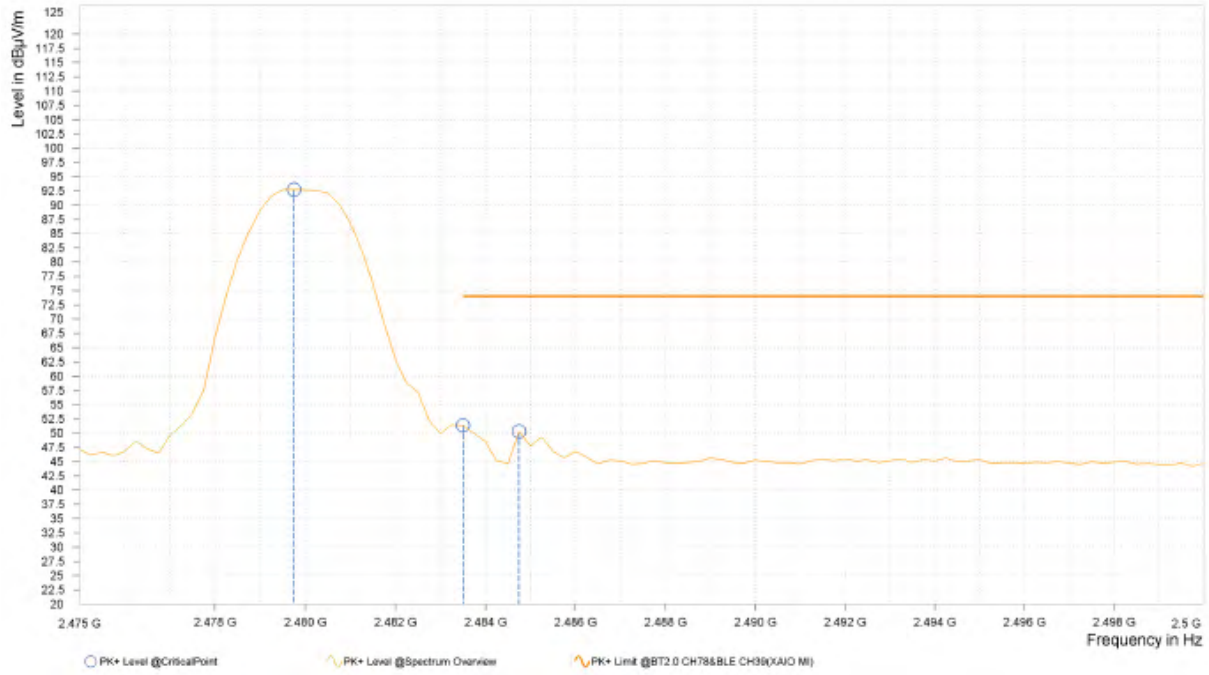


| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,480.000       | 86.69              |                    |                 | 5.89            | H            | 183.3         | 1.00               |
| 6  | 2,483.500       | 30.93              | 54.00              | 23.07           | 5.91            | H            | 183.3         | 1.00               |
| 6  | 2,491.000       | 30.81              | 54.00              | 23.19           | 5.96            | H            | 269.8         | 2.00               |



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**Test Report No.: PSU-NQN2405090215RF06**

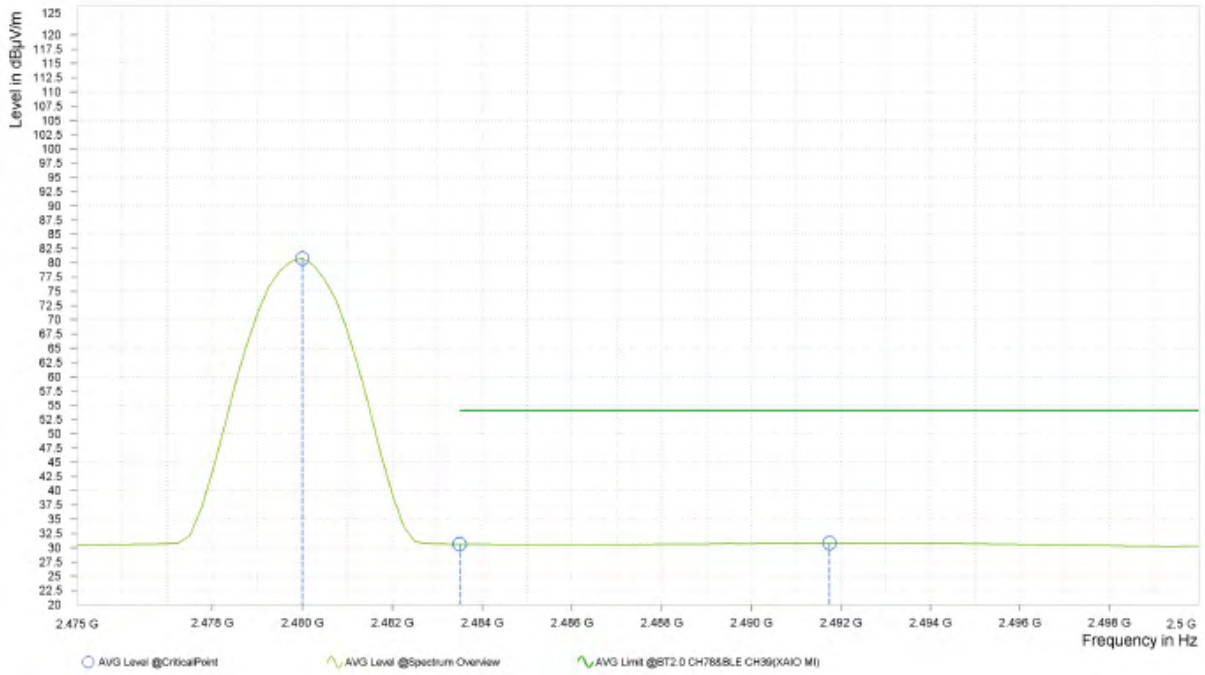


| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,479.750       | 92.75              |                    |                 | 5.89            | H            | 187           | 1.00               |
| 6  | 2,483.500       | 51.34              | 74.00              | 22.66           | 5.91            | H            | 176.6         | 2.00               |
| 6  | 2,484.750       | 50.27              | 74.00              | 23.73           | 5.92            | H            | 269.8         | 2.00               |

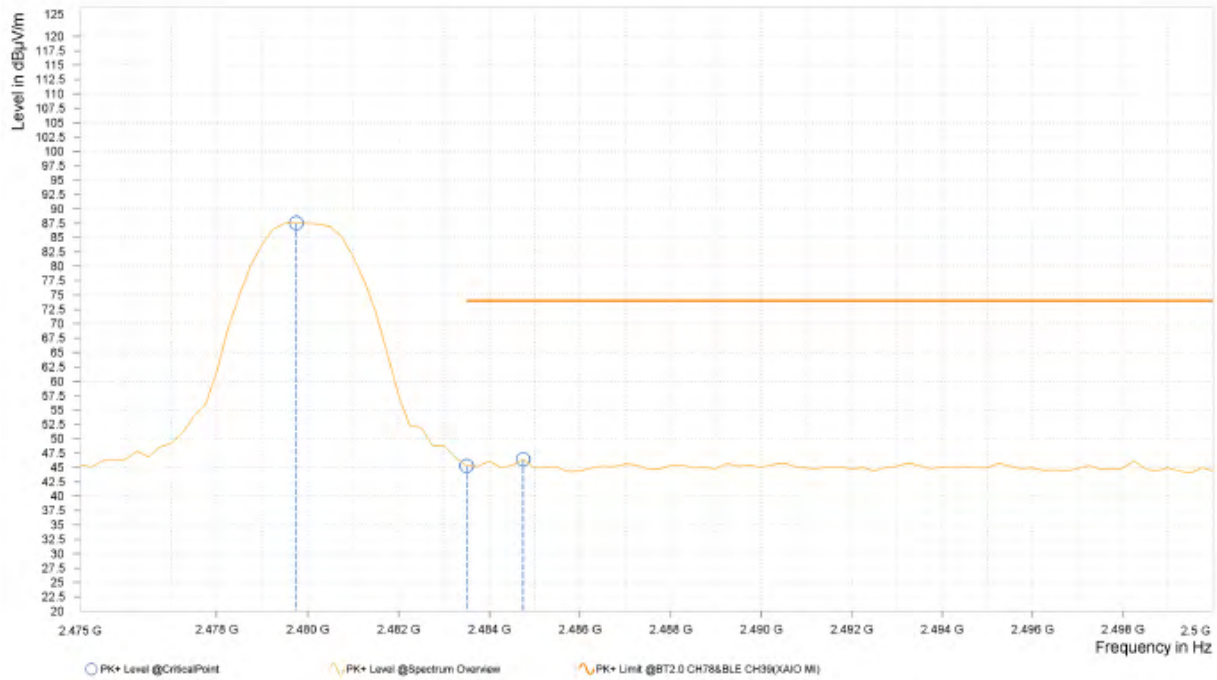


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**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,480.000       | 80.79              |                    |                 | 5.89            | V            | 325.6         | 1.00               |
| 6  | 2,483.500       | 30.64              | 54.00              | 23.36           | 5.91            | V            | 227.6         | 1.00               |
| 6  | 2,491.750       | 30.81              | 54.00              | 23.19           | 5.97            | V            | 269.9         | 2.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,479.750       | 87.53              |                    |                 | 5.89            | V            | 286.2         | 1.00               |
| 6  | 2,483.500       | 45.30              | 74.00              | 28.70           | 5.91            | V            | 286.2         | 1.00               |
| 6  | 2,484.750       | 46.41              | 74.00              | 27.59           | 5.92            | V            | 286.2         | 1.00               |

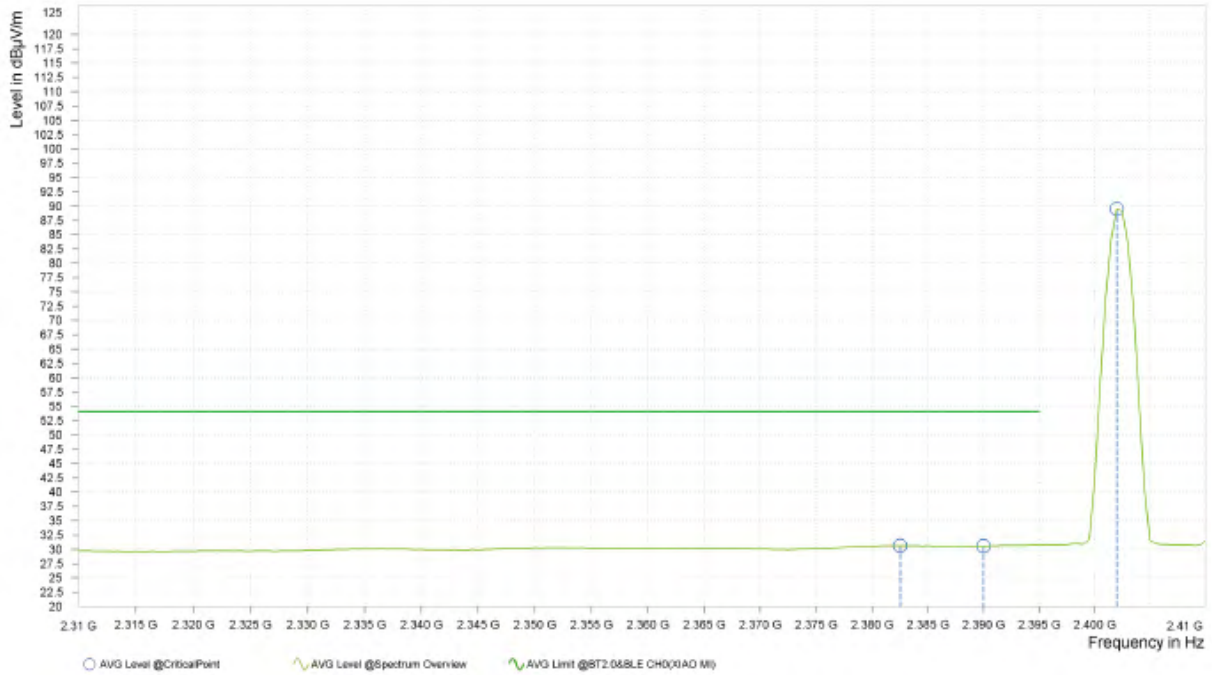
**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
2. 2480MHz: Fundamental frequency.



**BT-LE\_S8**

|                        |              |                          |              |
|------------------------|--------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 0 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                          | Average (AV) |



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,382.500       | 30.63              | 54.00              | 23.37           | 5.72            | H            | 359           | 2.00               |
| 5  | 2,390.000       | 30.56              | 54.00              | 23.44           | 5.77            | H            | 136.7         | 1.00               |
| 5  | 2,402.000       | 89.53              |                    |                 | 5.85            | H            | 317.3         | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,386.500       | 45.56              | 74.00              | 28.44           | 5.75            | H            | 134.4         | 1.00               |
| 5  | 2,390.000       | 45.03              | 74.00              | 28.97           | 5.77            | H            | 17            | 2.00               |
| 5  | 2,402.500       | 92.76              |                    |                 | 5.86            | H            | 359.1         | 1.00               |



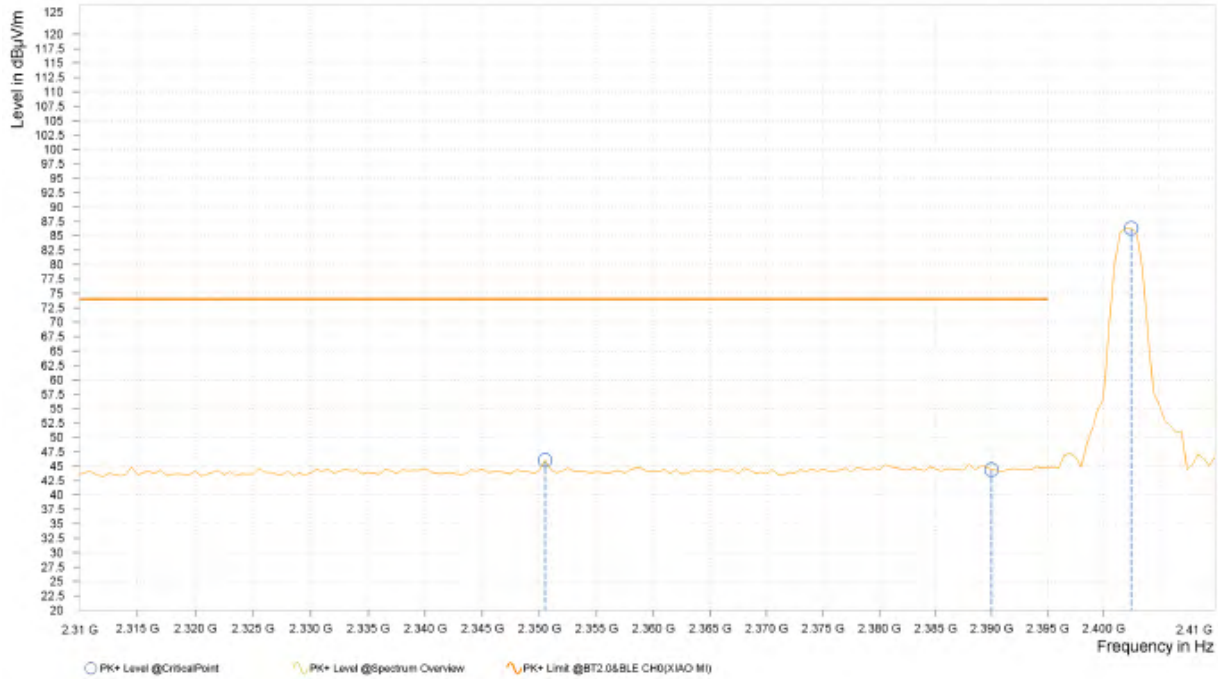


**BUREAU  
VERITAS**

**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,383.500       | 30.64              | 54.00              | 23.36           | 5.73            | V            | 277.8         | 1.00               |
| 5  | 2,390.000       | 30.60              | 54.00              | 23.40           | 5.77            | V            | 75            | 2.00               |
| 5  | 2,402.000       | 84.51              |                    |                 | 5.85            | V            | 277.8         | 1.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 2,350.500       | 46.04              | 74.00              | 27.96           | 5.59            | V            | 204.9         | 1.00               |
| 5  | 2,390.000       | 44.42              | 74.00              | 29.58           | 5.77            | V            | 359           | 2.00               |
| 5  | 2,402.500       | 86.29              |                    |                 | 5.86            | V            | 204.9         | 1.00               |

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
2. 2402MHz: Fundamental frequency.

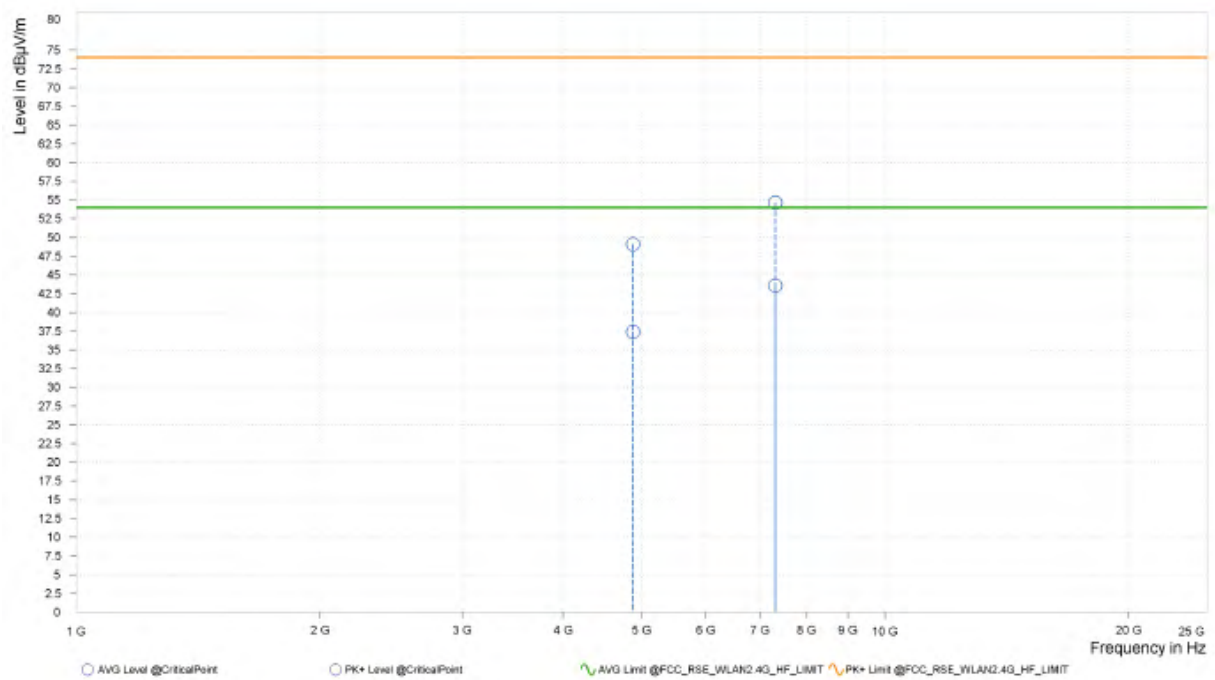


**BUREAU  
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**Test Report No.: PSU-NQN2405090215RF06**

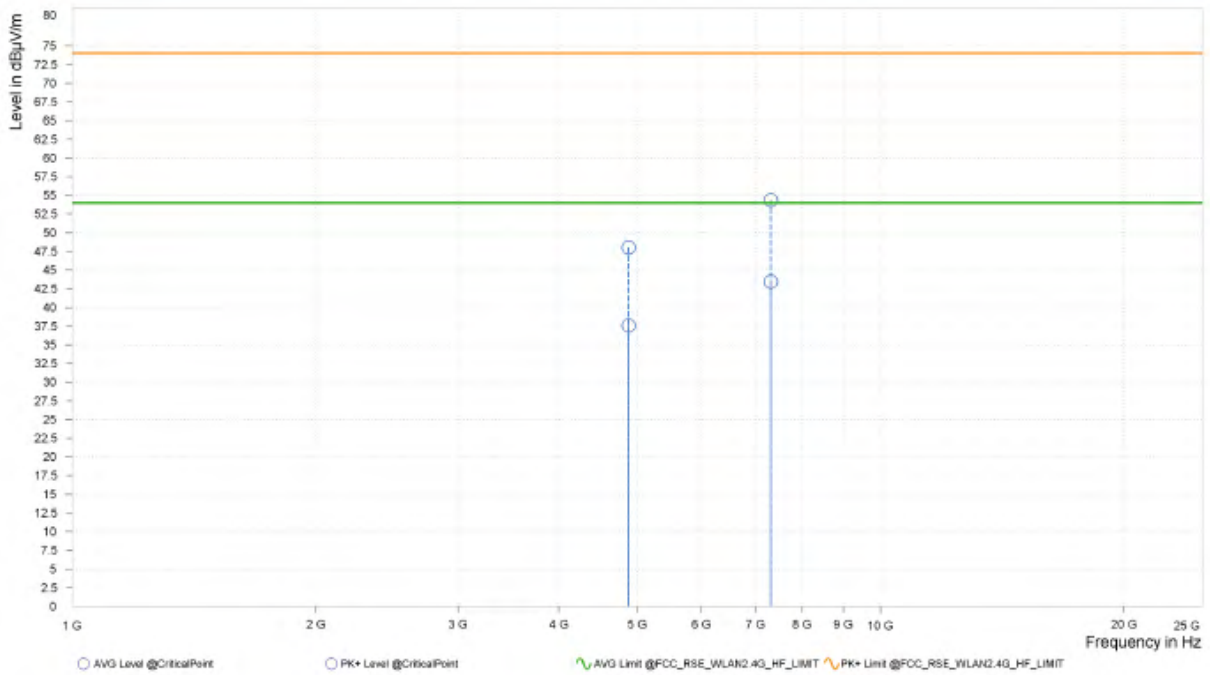
|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 19 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz  |                              | Average (AV) |

| 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  | 4,880.000       | 49.10              | 74.00              | 24.90           | 37.40              | 54.00              | 16.60           | 13.54           | H            | 9.3           | 2.00               |
| 2  | 7,320.000       | 54.66              | 74.00              | 19.34           | 43.58              | 54.00              | 10.42           | 18.90           | H            | 9.3           | 2.00               |





| 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  | 4,880.000       | 48.03              | 74.00              | 25.97           | 37.59              | 54.00              | 16.41           | 13.54           | V            | 2.6           | 2.00               |
| 2  | 7,320.000       | 54.35              | 74.00              | 19.65           | 43.46              | 54.00              | 10.54           | 18.90           | V            | 1             | 2.00               |



**REMARKS:**

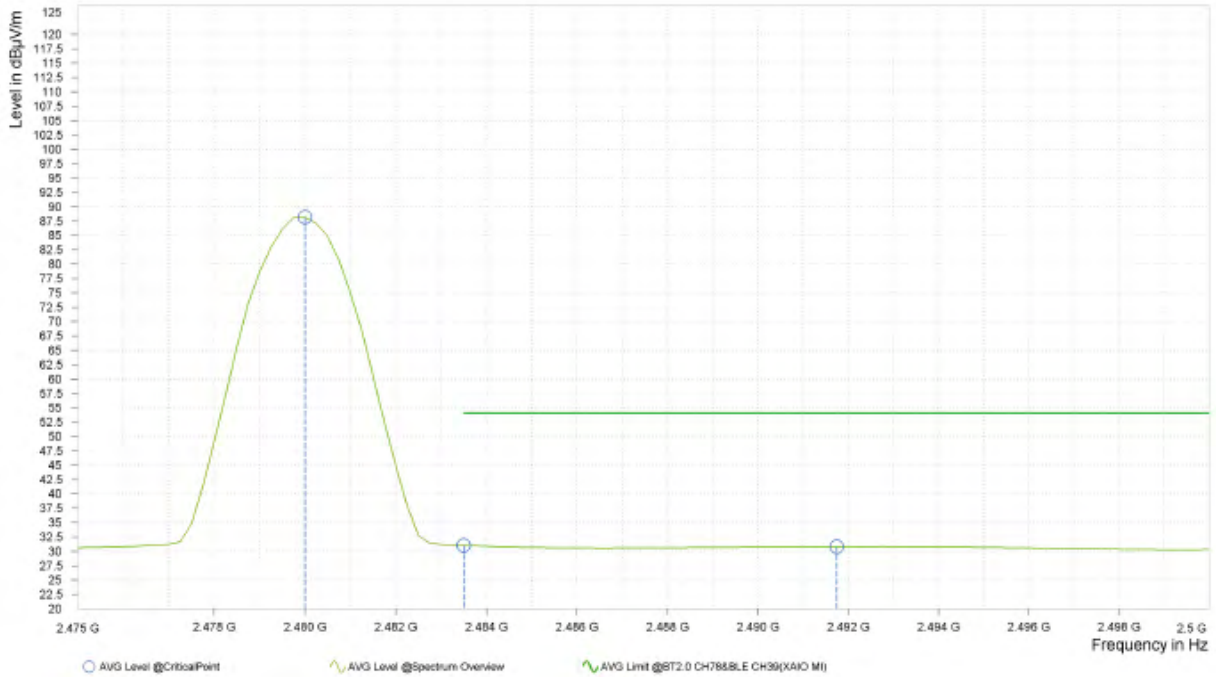
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
2. 2440MHz: Fundamental frequency.



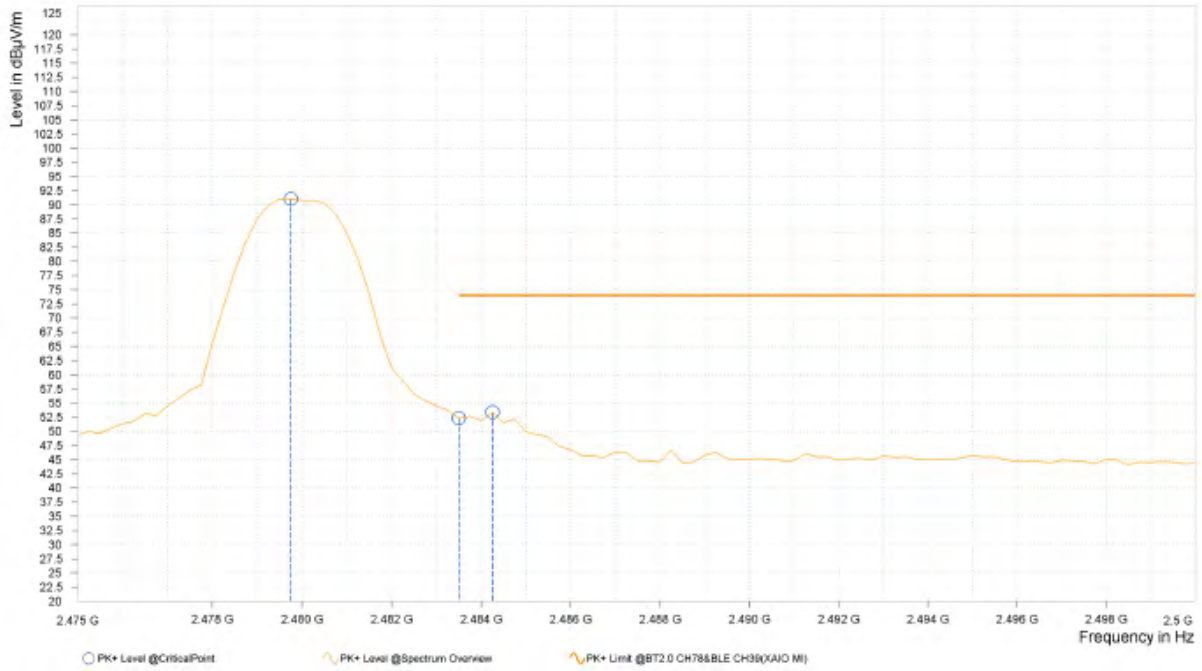
**BUREAU  
VERITAS**

**Test Report No.: PSU-NQN2405090215RF06**

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 39 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz  |                              | Average (AV) |



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,480.000       | 88.15              |                    |                 | 5.89            | H            | 171.8         | 2.00               |
| 6  | 2,483.500       | 31.01              | 54.00              | 22.99           | 5.91            | H            | 76.2          | 2.00               |
| 6  | 2,491.750       | 30.82              | 54.00              | 23.18           | 5.97            | H            | 91.3          | 1.00               |

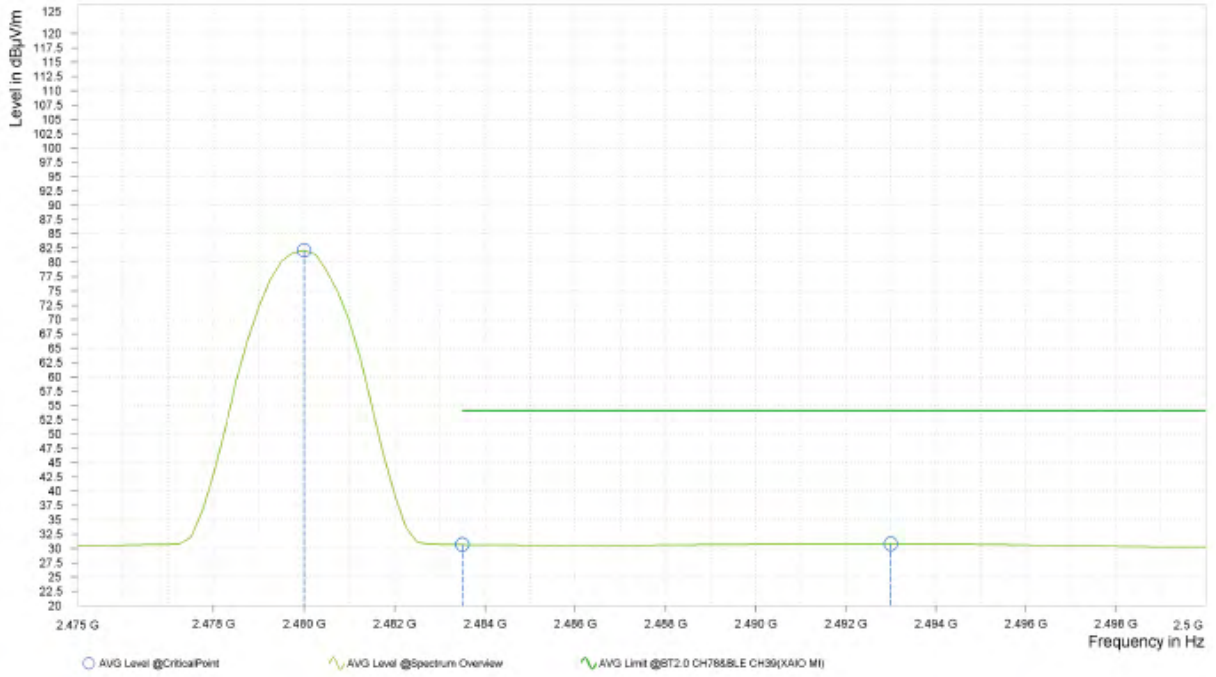


| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,479.750       | 91.03              |                    |                 | 5.89            | H            | 174.2         | 2.00               |
| 6  | 2,483.500       | 52.32              | 74.00              | 21.68           | 5.91            | H            | 0.9           | 2.00               |
| 6  | 2,484.250       | 53.37              | 74.00              | 20.63           | 5.92            | H            | 4.2           | 1.00               |

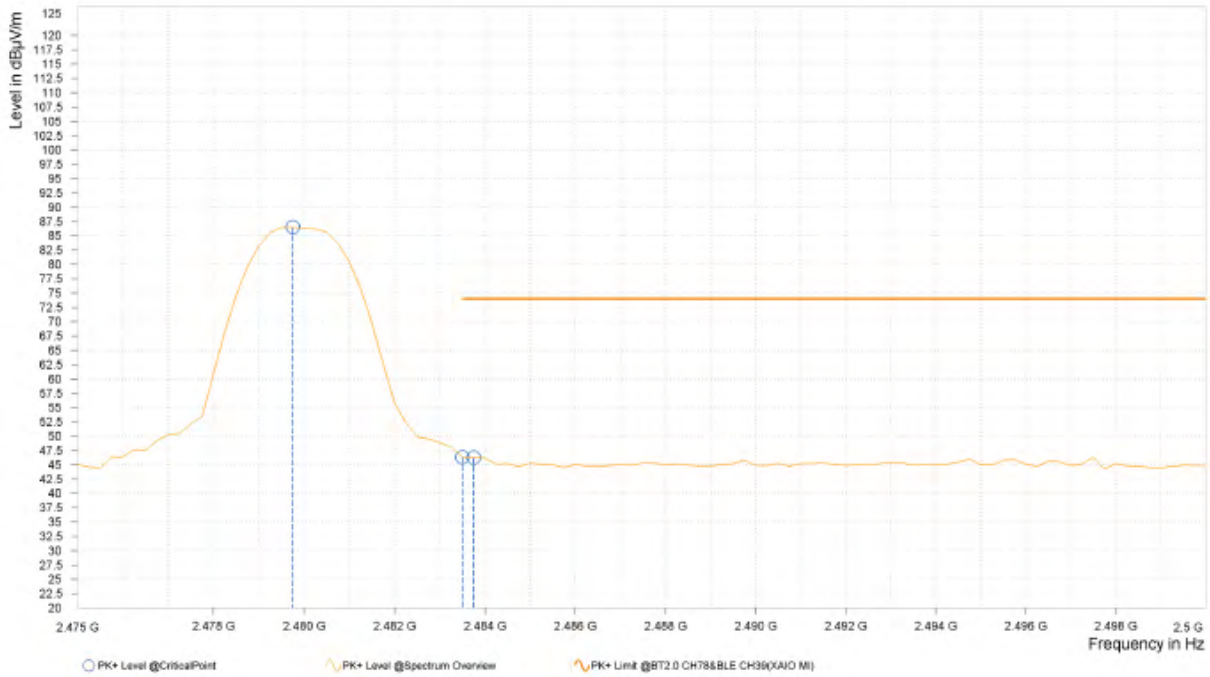


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**Test Report No.: PSU-NQN2405090215RF06**



| Rg | Frequency [MHz] | AVG Level [dBµV/m] | AVG Limit [dBµV/m] | AVG Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,480.000       | 82.10              |                    |                 | 5.89            | V            | 225.3         | 1.00               |
| 6  | 2,483.500       | 30.66              | 54.00              | 23.34           | 5.91            | V            | 0.9           | 2.00               |
| 6  | 2,493.000       | 30.82              | 54.00              | 23.18           | 5.98            | V            | 169.4         | 2.00               |



| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+ Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|
| 6  | 2,479.750       | 86.51              |                    |                 | 5.89            | V            | 98.4          | 1.00               |
| 6  | 2,483.500       | 46.34              | 74.00              | 27.66           | 5.91            | V            | 0.9           | 2.00               |
| 6  | 2,483.750       | 46.25              | 74.00              | 27.75           | 5.92            | V            | 359.1         | 1.00               |

**REMARKS:**

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Limit value–Emission level.
- 2480MHz: Fundamental frequency.





### 3.3 6 dB BANDWIDTH MEASUREMENT

#### 3.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

#### 3.3.2 TEST INSTRUMENTS

| Equipment                    | Manufacturer | Model No.       | Serial No.     | Last Cal. | Next Cal. |
|------------------------------|--------------|-----------------|----------------|-----------|-----------|
| EMI Test Receiver            | R&S          | ESW 44          | 101973         | Feb.25,24 | Feb.24,26 |
| Open Switch and Control Unit | R&S          | OSP-B157W8      | 100836         | N/A       | N/A       |
| Vector Signal Generator      | R&S          | SMBV100B        | 102176         | Feb.16,24 | Feb.15,26 |
| Signal Generator             | R&S          | SMB100A03       | 182185         | Feb.16,24 | Feb.15,26 |
| Wideband Radio Communication | R&S          | CMW500          | 169399         | Jun.26,22 | Jun.25,24 |
| Hygrothermograph             | DELI         | 20210528        | SZ015          | Sep.06,22 | Sep.05,24 |
| PC                           | LENOVO       | E14             | HRSW0024       | N/A       | N/A       |
| CABLE                        | R&S          | J12J103539-00-1 | SEP-03-20-069  | Apr.28,24 | Apr.27,25 |
| CABLE                        | R&S          | J12J103539-00-1 | SEP-03-20-070  | Apr.28,24 | Apr.27,25 |
| Test Software                | EMC32        | EMC32           | N/A            | N/A       | N/A       |
| Temperature Chamber          | votsch       | VT4002          | 58566078100050 | May.31,22 | May.30,24 |
| Temperature Chamber          | votsch       | VT4002          | 58566078100050 | May.30,24 | May.29,26 |

**NOTE:**

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



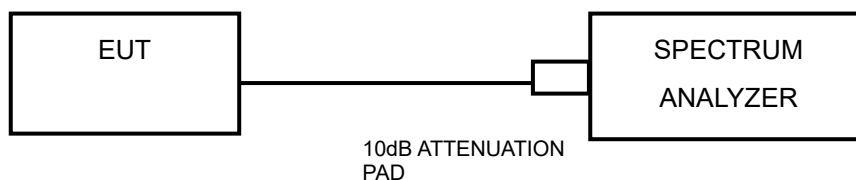
### 3.3.3 TEST PROCEDURE

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

### 3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

### 3.3.5 TEST SETUP



### 3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



**BUREAU VERITAS** Test Report No.: PSU-NQN2405090215RF06

### 3.3.7 TEST RESULTS

Please Refer to Appendix1/2 Of this test report.

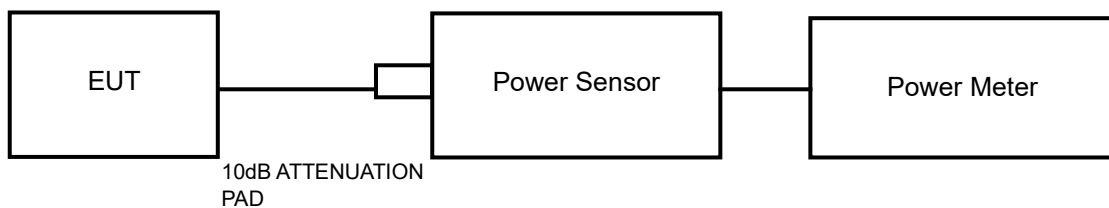


### 3.4 CONDUCTED OUTPUT POWER

#### 3.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

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

#### 3.4.2 TEST SETUP



#### 3.4.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

#### 3.4.4 TEST PROCEDURES

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

#### 3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 3.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



**BUREAU VERITAS** Test Report No.: PSU-NQN2405090215RF06

### 3.4.7 TEST RESULTS

#### 3.4.7.1 MAXIMUM PEAK OUTPUT POWER

Please Refer to Appendix1/2 Of this test report.



**BUREAU VERITAS** Test Report No.: PSU-NQN2405090215RF06

### 3.4.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)

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

Please Refer to Appendix1/2 Of this test report.

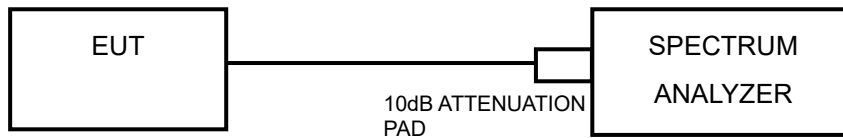


### 3.5 POWER SPECTRAL DENSITY MEASUREMENT

#### 3.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

#### 3.5.2 TEST SETUP



#### 3.5.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

#### 3.5.4 TEST PROCEDURE

1. Set the span to 1.5 times the DTS bandwidth
2. Set the RBW = 3 kHz, VBW  $\geq$  3 x RBW, Detector = peak.
3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

#### 3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 3.5.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



**BUREAU VERITAS** Test Report No.: PSU-NQN2405090215RF06

### 3.5.7 TEST RESULTS

Please Refer to Appendix1/2 Of this test report.



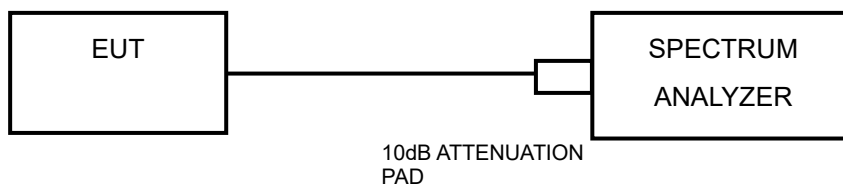


### 3.6 OUT OF BAND EMISSION MEASUREMENT

#### 3.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below  $-20\text{dB}$  of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

#### 3.6.2 TEST SETUP



#### 3.6.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

#### 3.6.4 TEST PROCEDURE

##### MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW  $\geq$  300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.



## MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW  $\geq$  300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

### 3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

### 3.6.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

### 3.6.7 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.

Please Refer to Appendix1/2 Of this test report.



### **3.7 ANTENNA REQUIREMENTS**

#### **3.7.1 STANDARD APPLICABLE**

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **3.7.2 ANTENNA CONNECTED CONSTRUCTION**

An embedded-in antenna design is used.

#### **3.7.3 ANTENNA GAIN**

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit and PSD limit.



## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



**BUREAU VERITAS** Test Report No.: PSU-NQN2405090215RF06

## **5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.



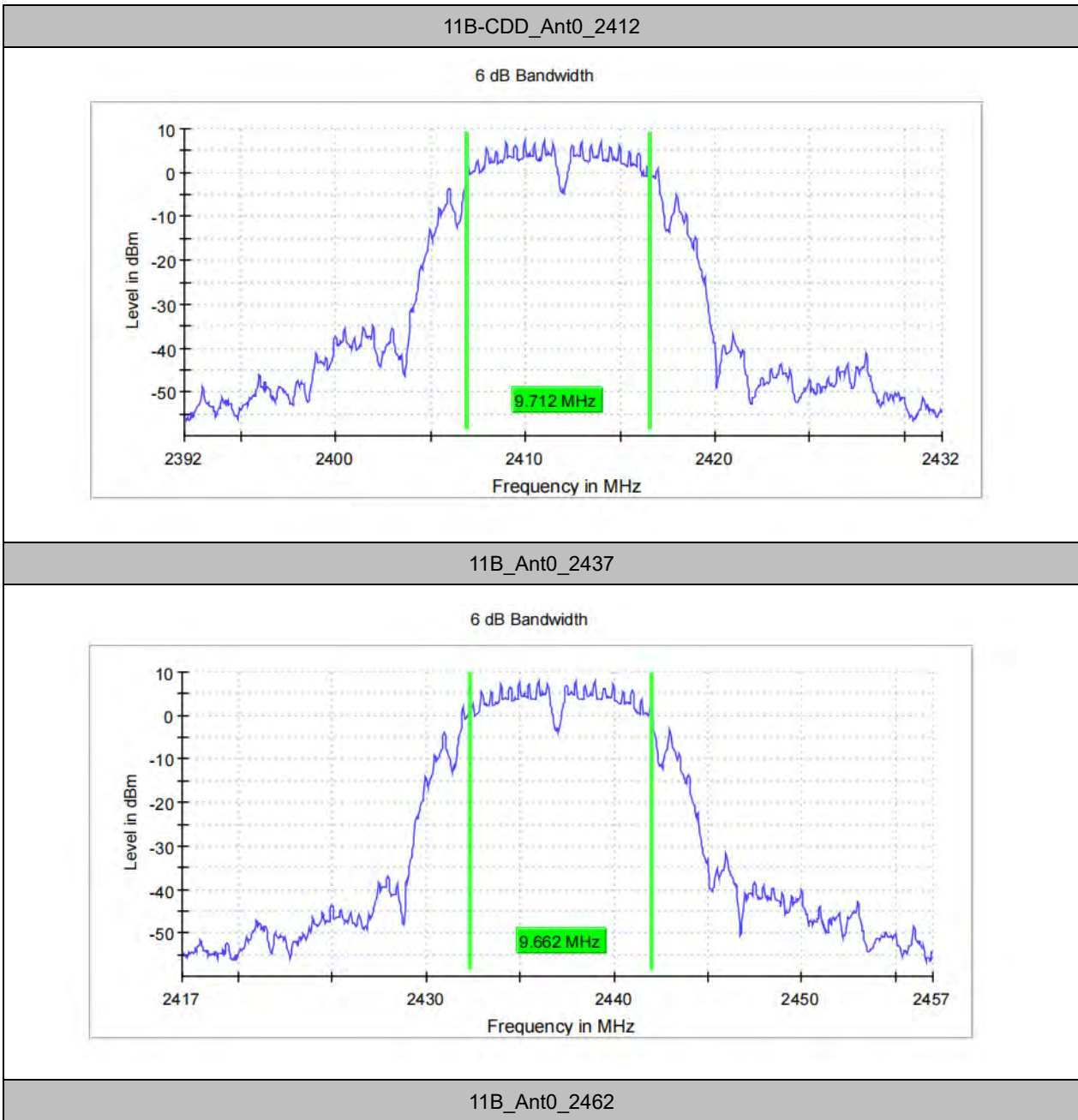
## 6 APPENDIX 1 WLAN DTS BANDWIDTH

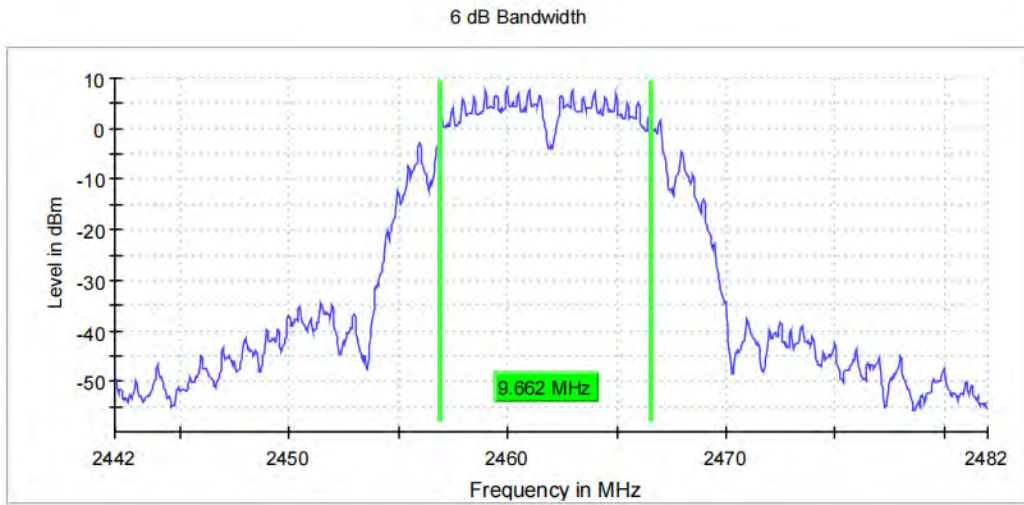
### TEST RESULT

| TestMode | Antenna | Frequency[MHz] | DTS<br>BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------------|----------|----------|------------|---------|
| 11B      | Ant0    | 2412           | 9.712              | 2406.869 | 2416.581 | 0.5        | PASS    |
|          | Ant0    | 2437           | 9.662              | 2432.369 | 2442.031 | 0.5        | PASS    |
|          | Ant0    | 2462           | 9.662              | 2456.919 | 2466.581 | 0.5        | PASS    |
| 11G      | Ant0    | 2412           | 16.170             | 2403.765 | 2419.935 | 0.5        | PASS    |
|          | Ant0    | 2437           | 16.170             | 2429.015 | 2445.185 | 0.5        | PASS    |
|          | Ant0    | 2462           | 16.020             | 2453.765 | 2469.785 | 0.5        | PASS    |
| 11N20    | Ant0    | 2412           | 16.421             | 2404.365 | 2420.786 | 0.5        | PASS    |
|          | Ant0    | 2437           | 17.522             | 2428.164 | 2445.686 | 0.5        | PASS    |
|          | Ant0    | 2462           | 17.472             | 2453.314 | 2470.786 | 0.5        | PASS    |
| 11N40    | Ant0    | 2422           | 35.872             | 2404.414 | 2440.286 | 0.5        | PASS    |
|          | Ant0    | 2437           | 35.622             | 2419.014 | 2454.636 | 0.5        | PASS    |
|          | Ant0    | 2452           | 35.722             | 2434.414 | 2470.136 | 0.5        | PASS    |

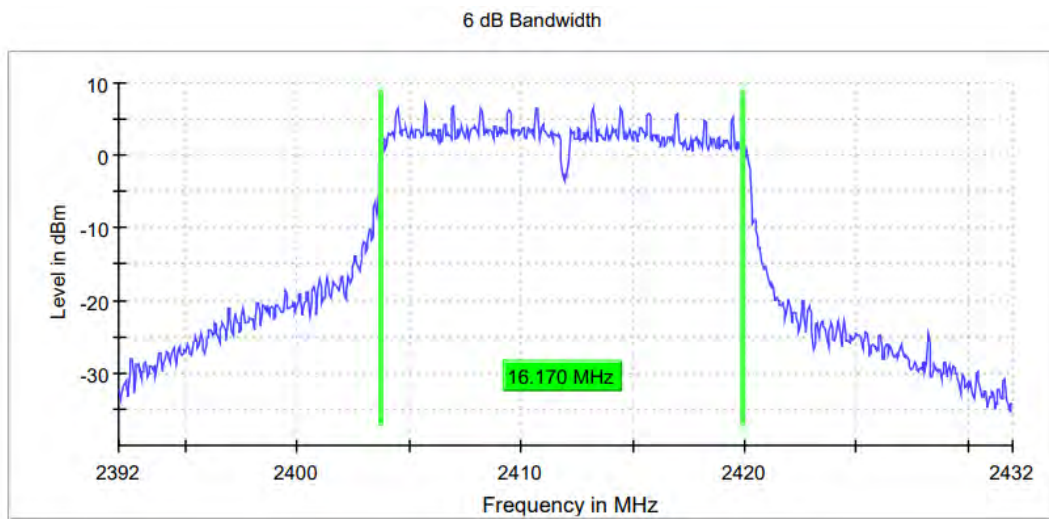


### TEST GRAPHS





11G\_Ant0\_2412



11G\_Ant0\_2437

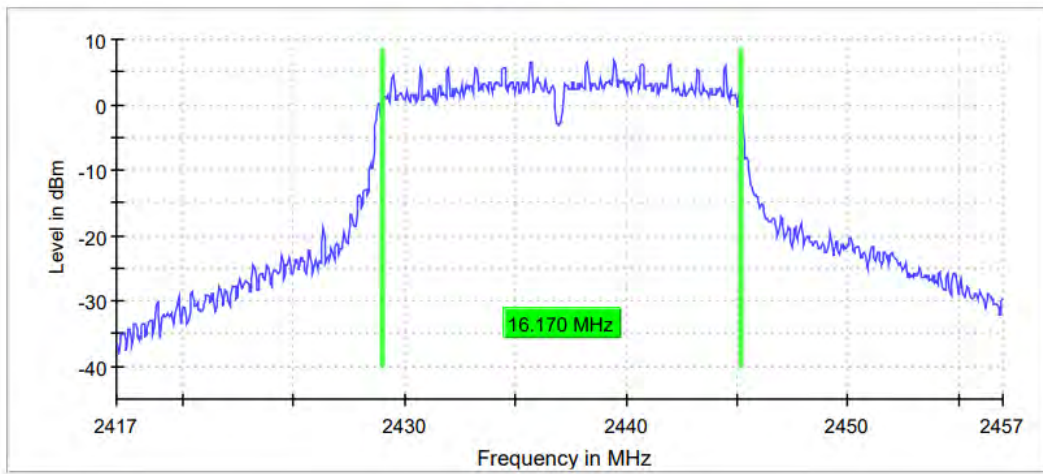




**BUREAU  
VERITAS**

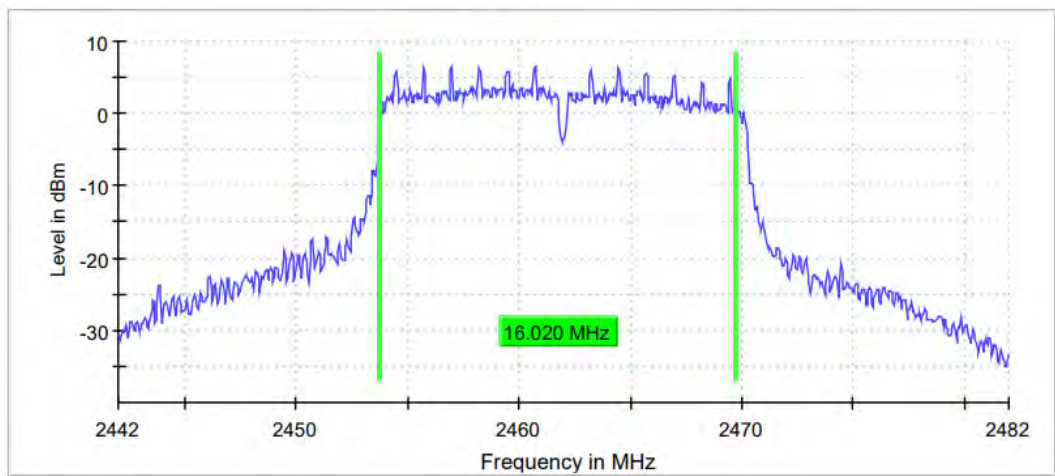
**Test Report No.: PSU-NQN2405090215RF06**

6 dB Bandwidth



11G\_Ant0\_2462

6 dB Bandwidth

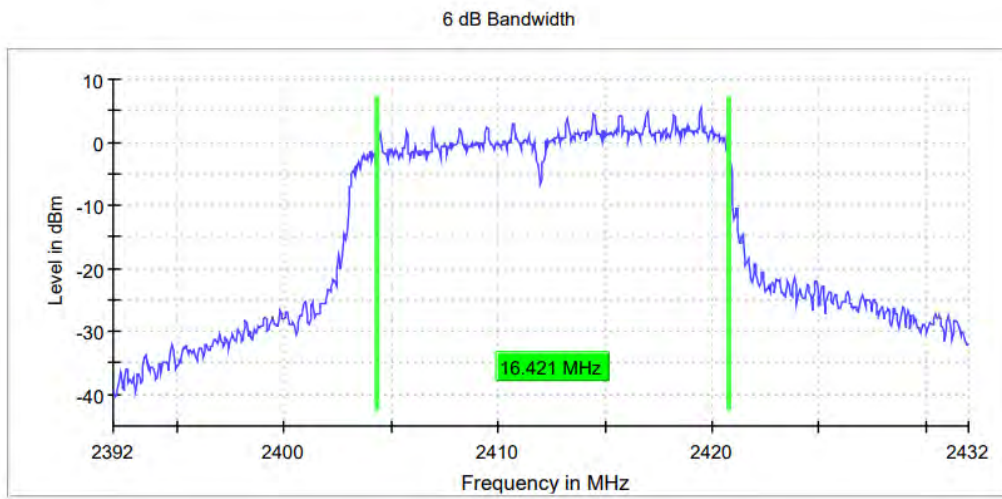


11N20\_Ant0\_2412

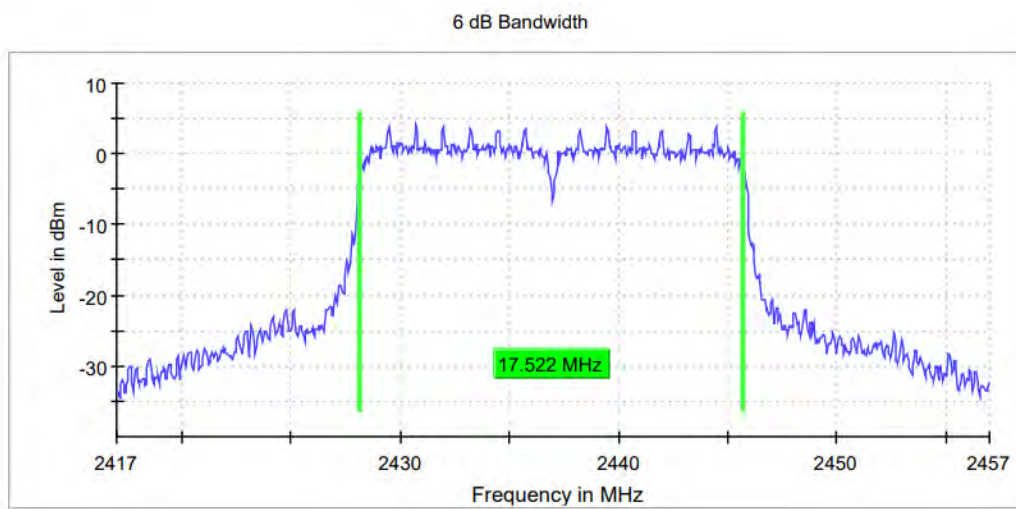


BUREAU  
VERITAS

Test Report No.: PSU-NQN2405090215RF06



11N20\_Ant0\_2437

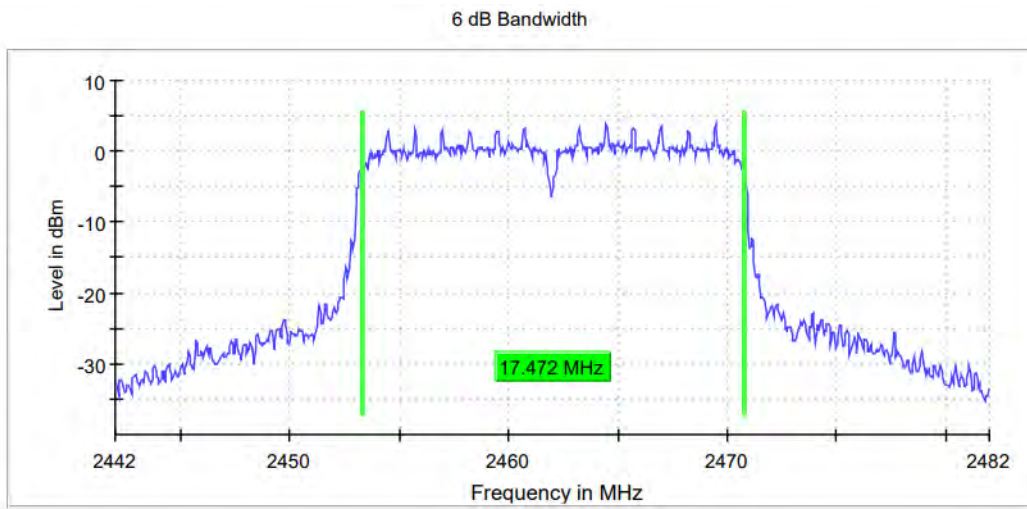


11N20\_Ant0\_2462

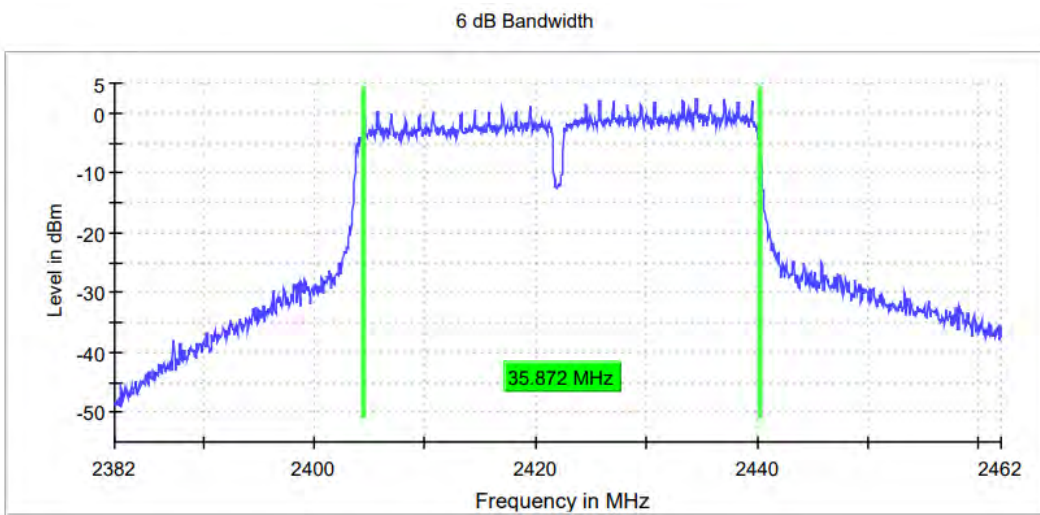


**BUREAU  
VERITAS**

**Test Report No.: PSU-NQN2405090215RF06**



11N40\_Ant0\_2422

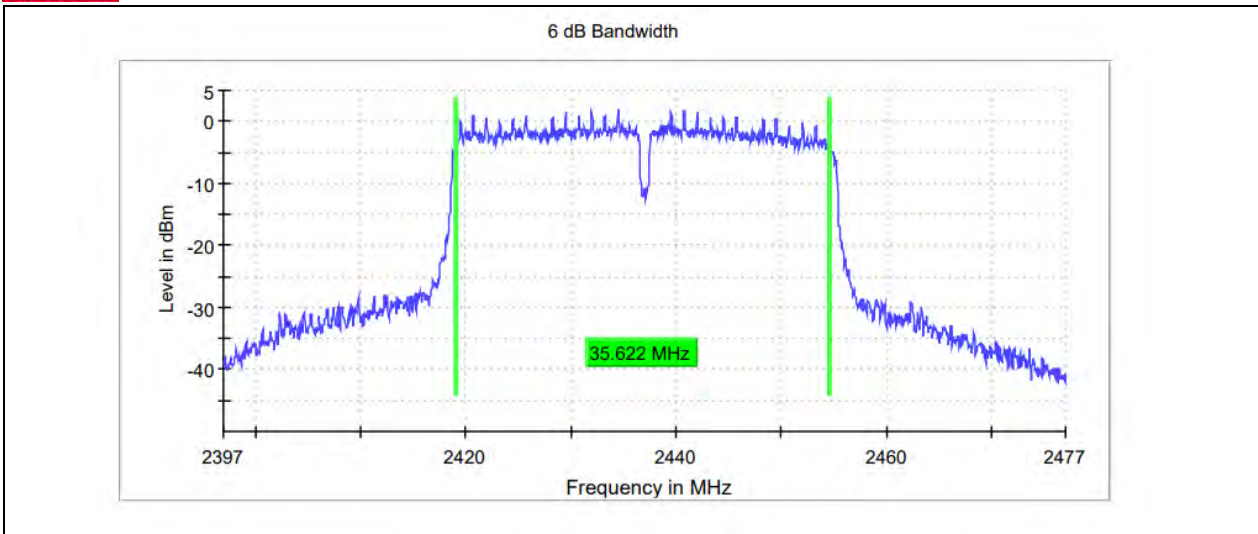


11N40\_Ant0\_2437

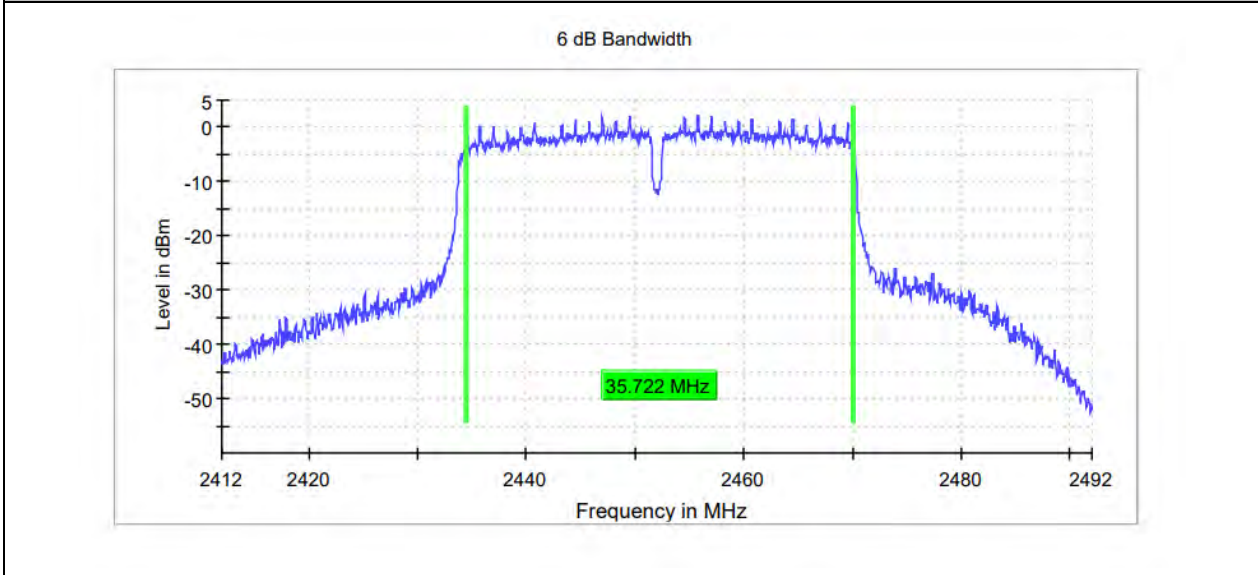


**BUREAU  
VERITAS**

**Test Report No.: PSU-NQN2405090215RF06**



11N40\_Ant0\_2452



**20M**

**RBW 100.000 kHz**

**VBW 300.000 kHz**

**40M**

**RBW 100.000 kHz**

**VBW 300.000 kHz**

## OBW BANDWIDTH

### TEST RESULT

| TestMode | Antenna | Frequency[MHz] | OBW | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|-----|---------|---------|------------|---------|
|----------|---------|----------------|-----|---------|---------|------------|---------|



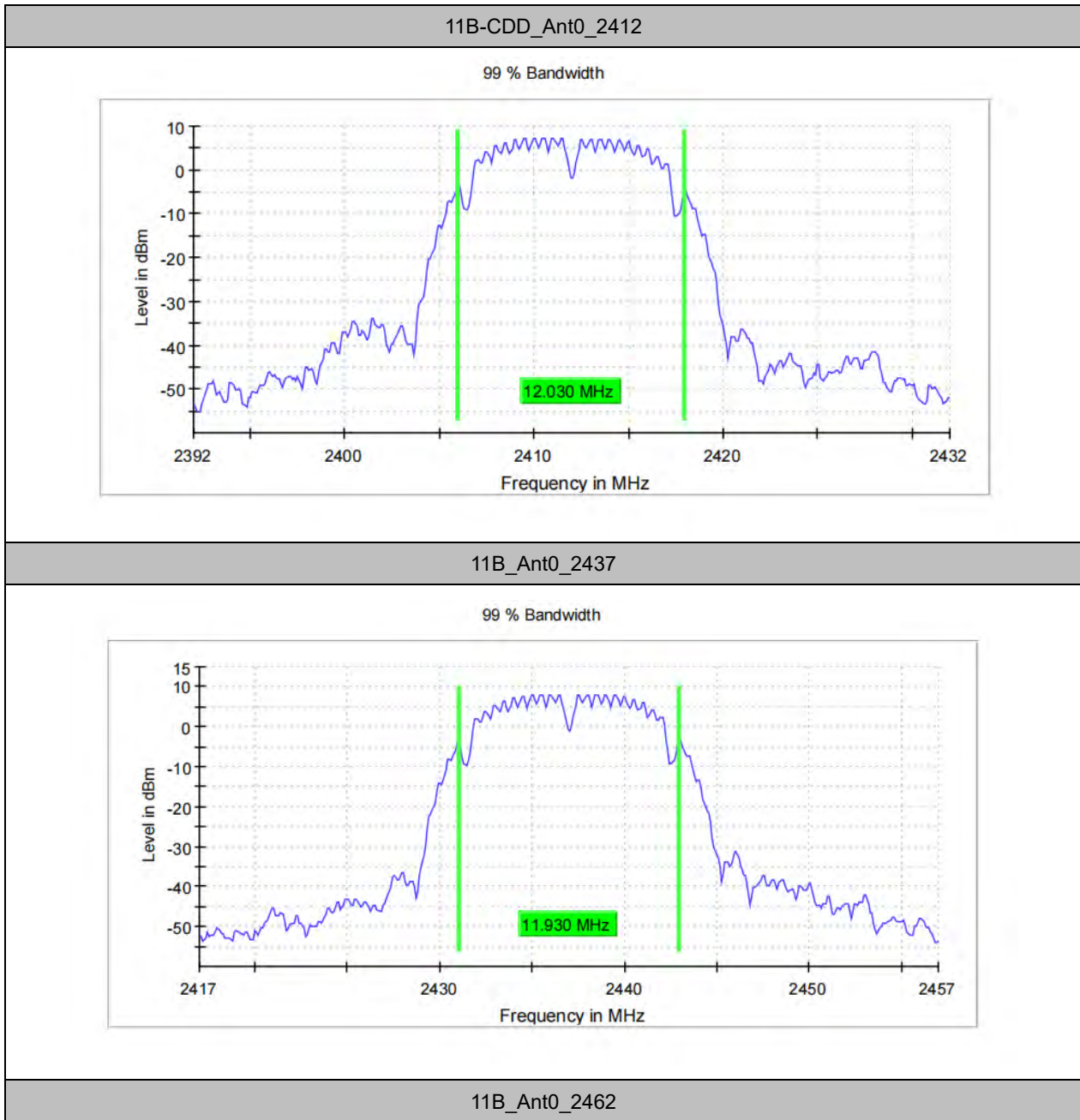
**BUREAU  
VERITAS**

**Test Report No.: PSU-NQN2405090215RF06**

|       |      |      | BW<br>[MHz] |          |          |     |      |
|-------|------|------|-------------|----------|----------|-----|------|
| 11B   | Ant0 | 2412 | 12.030      | 2405.935 | 2417.965 | --- | PASS |
|       | Ant0 | 2437 | 11.930      | 2431.035 | 2442.965 | --- | PASS |
|       | Ant0 | 2462 | 12.030      | 2455.935 | 2467.965 | --- | PASS |
| 11G   | Ant0 | 2412 | 16.742      | 2403.529 | 2420.271 | --- | PASS |
|       | Ant0 | 2437 | 16.642      | 2428.729 | 2445.371 | --- | PASS |
|       | Ant0 | 2462 | 16.642      | 2453.629 | 2470.271 | --- | PASS |
| 11N20 | Ant0 | 2412 | 17.744      | 2403.328 | 2421.072 | --- | PASS |
|       | Ant0 | 2437 | 17.744      | 2428.128 | 2445.872 | --- | PASS |
|       | Ant0 | 2462 | 17.744      | 2453.128 | 2470.872 | --- | PASS |
| 11N40 | Ant0 | 2422 | 36.614      | 2403.818 | 2440.432 | --- | PASS |
|       | Ant0 | 2437 | 36.364      | 2418.818 | 2455.182 | --- | PASS |
|       | Ant0 | 2452 | 36.113      | 2434.069 | 2470.182 | --- | PASS |



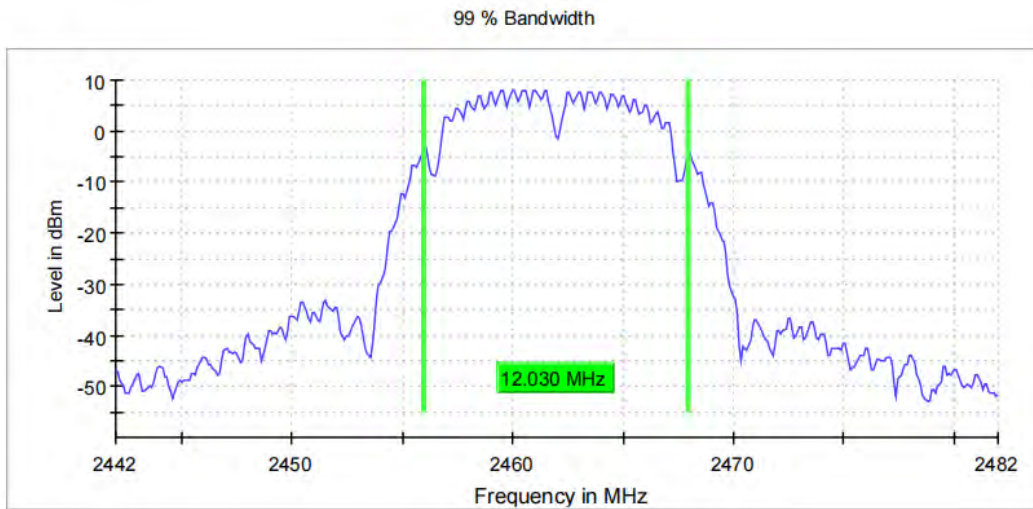
### TEST GRAPHS



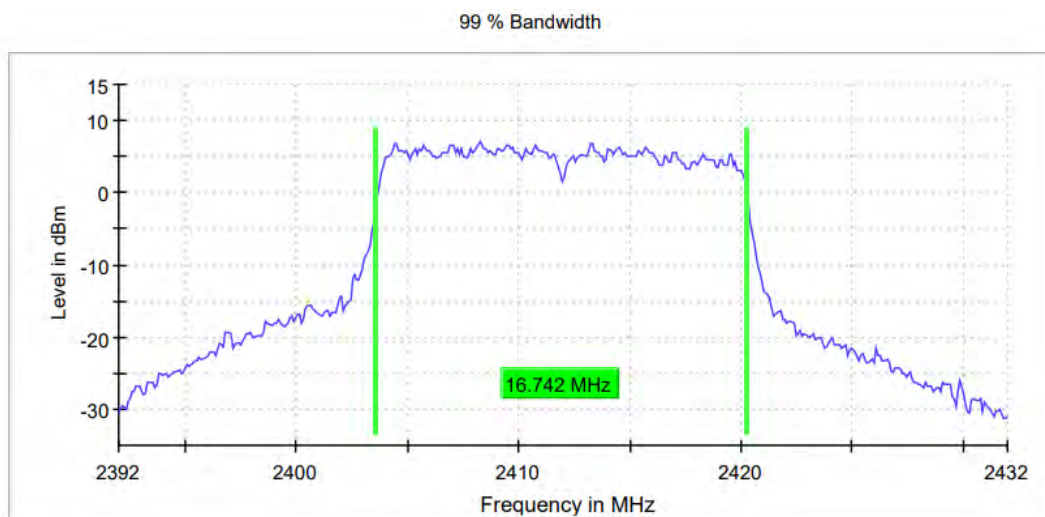


BUREAU  
VERITAS

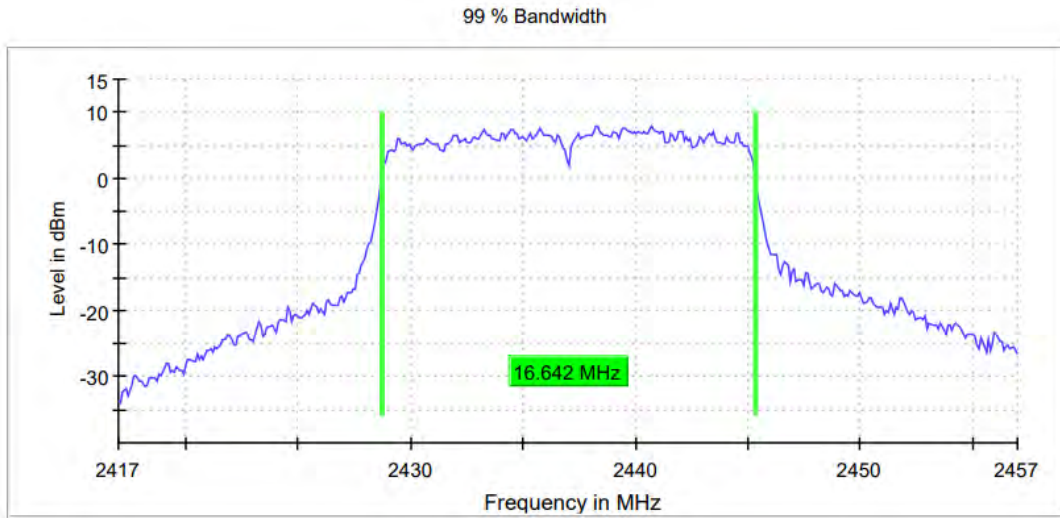
Test Report No.: PSU-NQN2405090215RF06



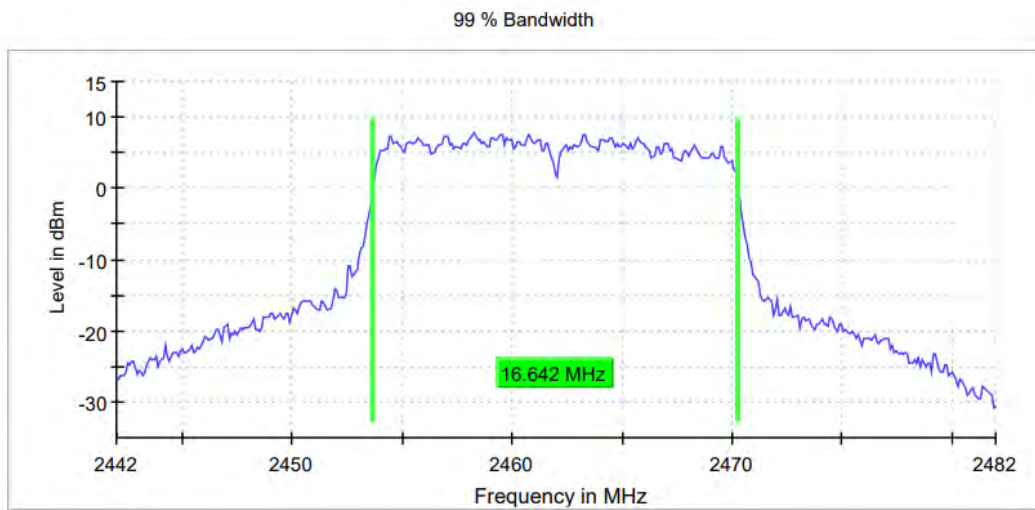
11G\_Ant0\_2412



11G\_Ant0\_2437



11G\_Ant0\_2462



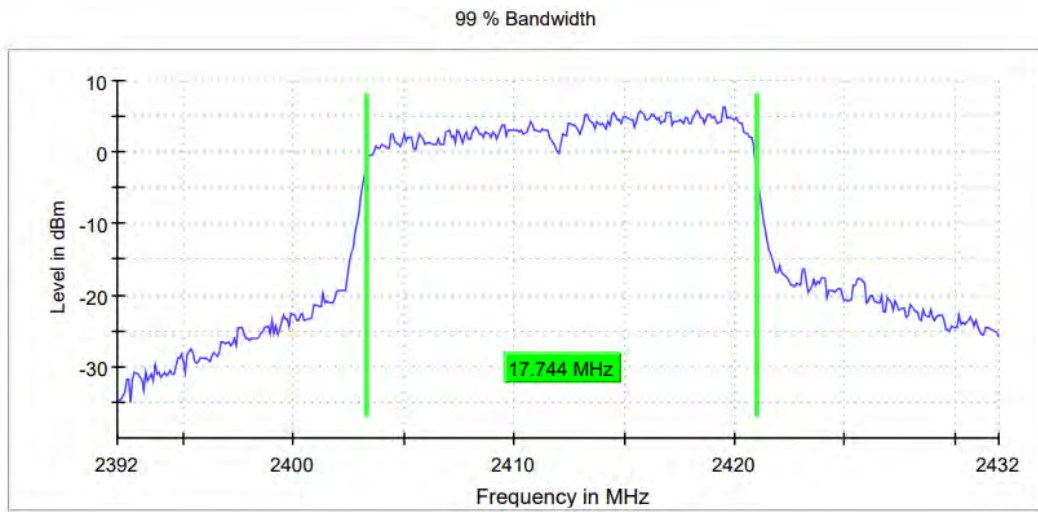
11N20\_Ant0\_2412



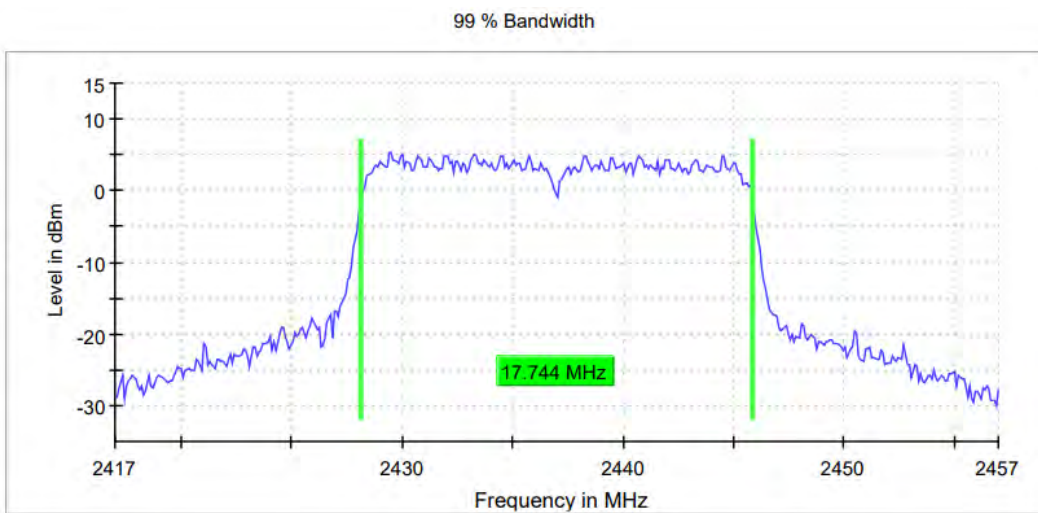


BUREAU  
VERITAS

Test Report No.: PSU-NQN2405090215RF06



11N20\_Ant0\_2437

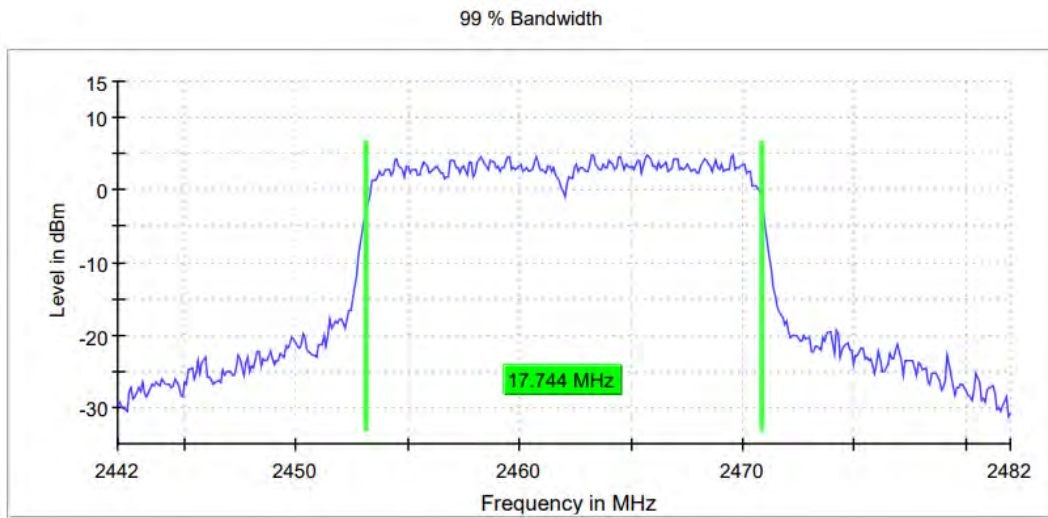


11N20\_Ant0\_2462

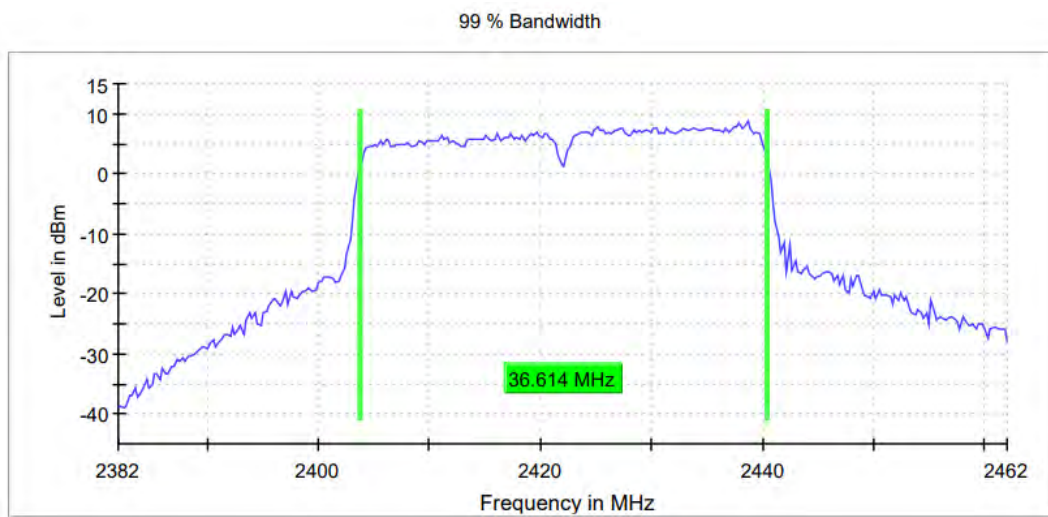


BUREAU  
VERITAS

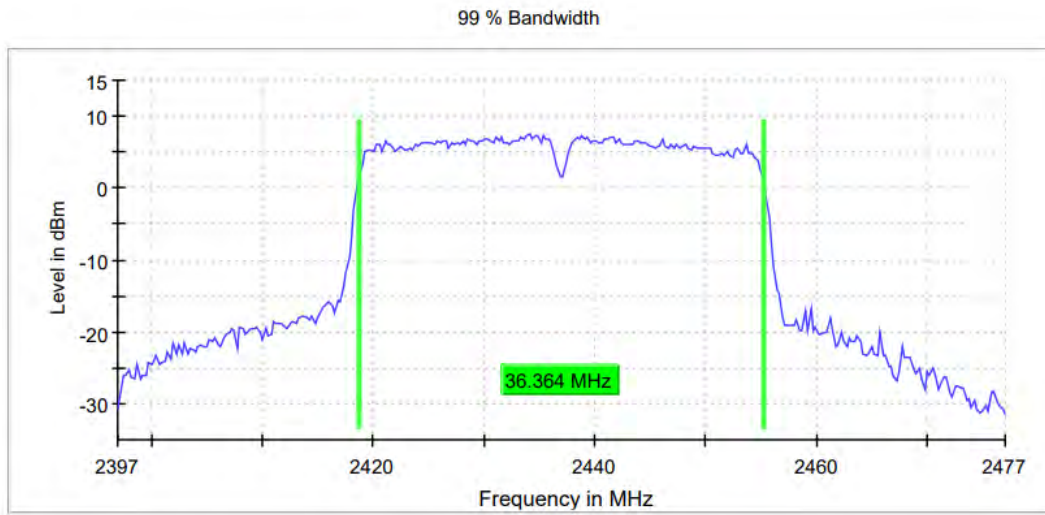
Test Report No.: PSU-NQN2405090215RF06



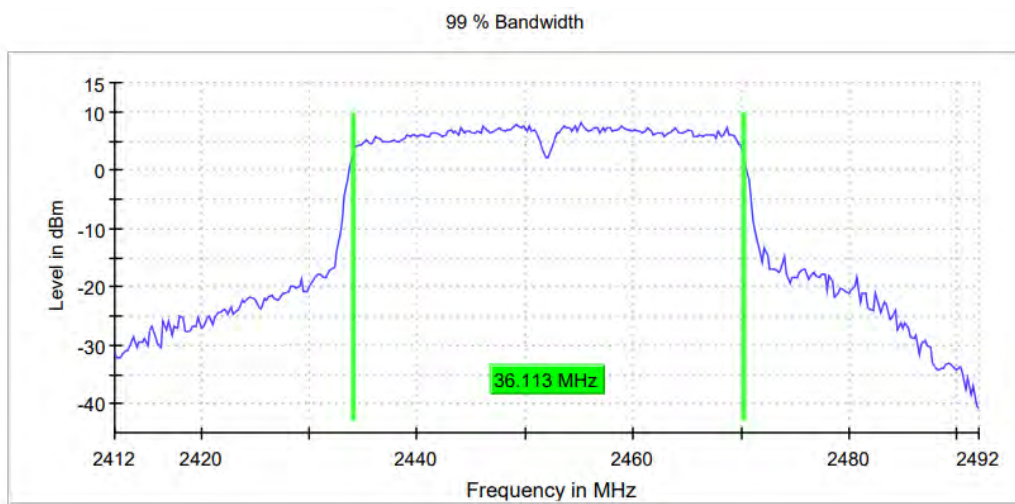
11N40\_Ant0\_2422



11N40\_Ant0\_2437



11N40\_Ant0\_2452



**20M**

**RBW 200.000 kHz**

**VBW 1.000 MHz**

**40M**

**RBW 500.000 kHz**

**VBW 2.000 MHz**



### MAXIMUM CONDUCTED OUTPUT POWER

#### TEST RESULT PEAK

| TestMode | Antenna | Frequency [MHz] | Peak power [dBm] | MAX Peak power [mw] | Limit [dBm] | Verdict | Power Setting |
|----------|---------|-----------------|------------------|---------------------|-------------|---------|---------------|
|          |         |                 | Ant1             |                     |             |         |               |
| 11B      | Ant0    | 2412            | 19.603           | 91.26               | ≤30.00      | PASS    | 15            |
|          |         | 2437            | 20.261           | 106.19              | ≤30.00      | PASS    | 15            |
|          |         | 2462            | 20.227           | 105.37              | ≤30.00      | PASS    | 15            |
| 11g      | Ant0    | 2412            | 22.887           | 194.40              | ≤30.00      | PASS    | 15            |
|          |         | 2437            | 23.454           | 221.51              | ≤30.00      | PASS    | 15            |
|          |         | 2462            | 23.12            | 205.12              | ≤30.00      | PASS    | 15            |
| 11N20    | Ant0    | 2412            | 23.278           | 212.72              | ≤30.00      | PASS    | 14            |
|          |         | 2437            | 22.734           | 187.67              | ≤30.00      | PASS    | 14            |
|          |         | 2462            | 22.645           | 183.87              | ≤30.00      | PASS    | 14            |
| 11N40    | Ant0    | 2422            | 24.153           | 260.20              | ≤30.00      | PASS    | 14            |
|          |         | 2437            | 23.159           | 206.97              | ≤30.00      | PASS    | 14            |
|          |         | 2452            | 23.248           | 211.25              | ≤30.00      | PASS    | 14            |



### TEST RESULT AVERAGE

| TestMode | Antenna | Freq.<br>[MHz] | Avg.power<br>[dBm] | Power<br>Setting |
|----------|---------|----------------|--------------------|------------------|
|          |         |                | Ant1               |                  |
| 11B      | Ant0    | 2412           | 15.542             | 15               |
|          |         | 2437           | 16.201             | 15               |
|          |         | 2462           | 16.177             | 15               |
| 11g      | Ant0    | 2412           | 15.62              | 15               |
|          |         | 2437           | 16.252             | 15               |
|          |         | 2462           | 16.12              | 15               |
| 11N20    | Ant0    | 2412           | 14.937             | 14               |
|          |         | 2437           | 15.125             | 14               |
|          |         | 2462           | 15.023             | 14               |
| 11N40    | Ant0    | 2422           | 14.281             | 14               |
|          |         | 2437           | 13.997             | 14               |
|          |         | 2452           | 14.22              | 14               |



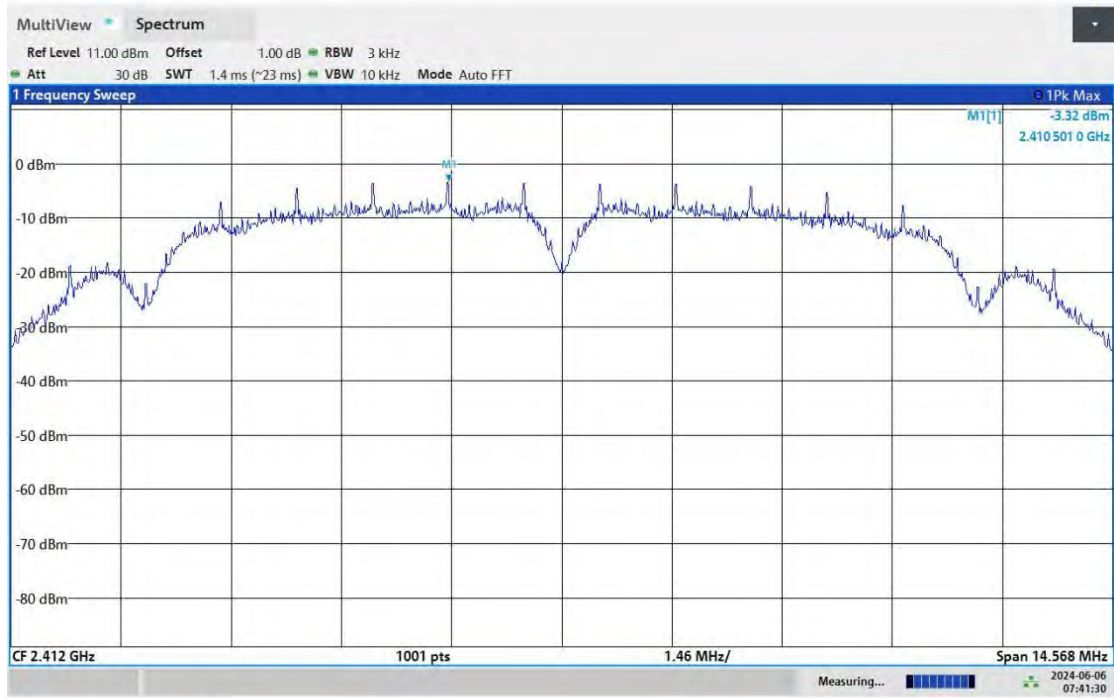
## MAXIMUM POWER SPECTRAL DENSITY TEST RESULT

| TestMode | Antenna | Frequency<br>[MHz] | Result<br>[dBm/3kHz] | Limit<br>[dBm/3kHz] | Verdict |
|----------|---------|--------------------|----------------------|---------------------|---------|
| 11B      | Ant0    | 2412               | -3.32                | ≤8.00               | PASS    |
|          | Ant0    | 2437               | -3.58                | ≤8.00               | PASS    |
|          | Ant0    | 2462               | -3.27                | ≤8.00               | PASS    |
| 11G      | Ant0    | 2412               | -8.44                | ≤8.00               | PASS    |
|          | Ant0    | 2437               | -8.20                | ≤8.00               | PASS    |
|          | Ant0    | 2462               | -8.53                | ≤8.00               | PASS    |
| 11N20    | Ant0    | 2412               | -9.60                | ≤8.00               | PASS    |
|          | Ant0    | 2437               | -9.67                | ≤8.00               | PASS    |
|          | Ant0    | 2462               | -10.23               | ≤8.00               | PASS    |
| 11N40    | Ant0    | 2422               | -13.37               | ≤8.00               | PASS    |
|          | Ant0    | 2437               | -13.83               | ≤8.00               | PASS    |
|          | Ant0    | 2452               | -13.12               | ≤8.00               | PASS    |



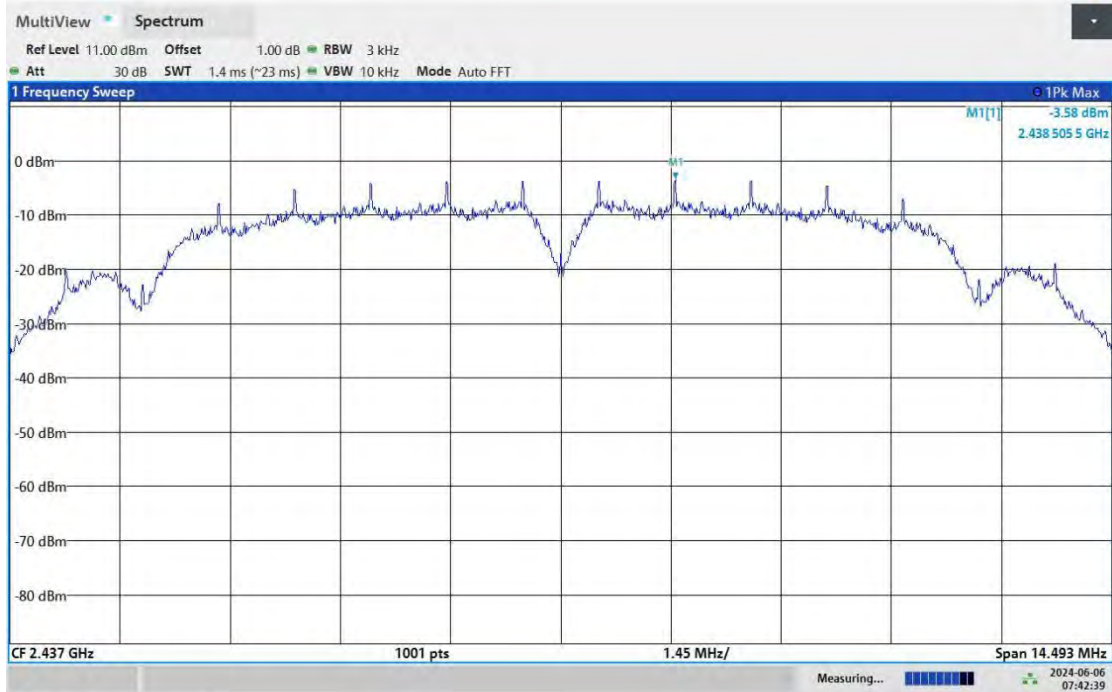
**BUREAU VERITAS** Test Report No.: PSU-NQN2405090215RF06  
**TEST GRAPHS**

11B\_Ant0\_2412



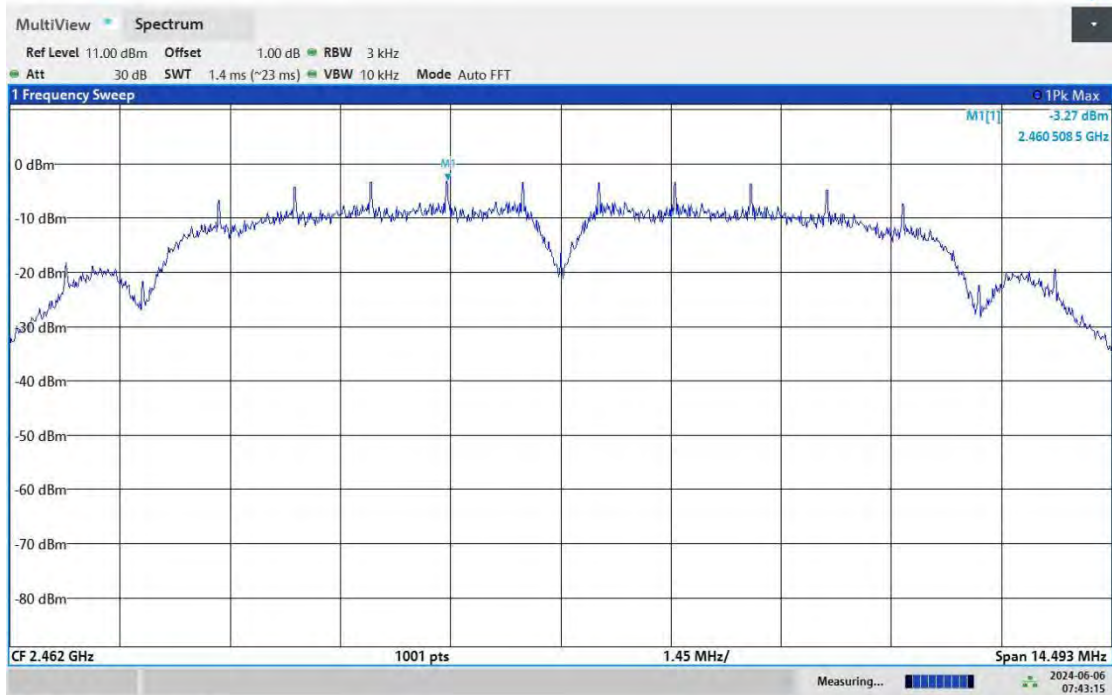
07:41:31 AM 06/06/2024

11B\_Ant0\_2437



07:42:40 AM 06/06/2024

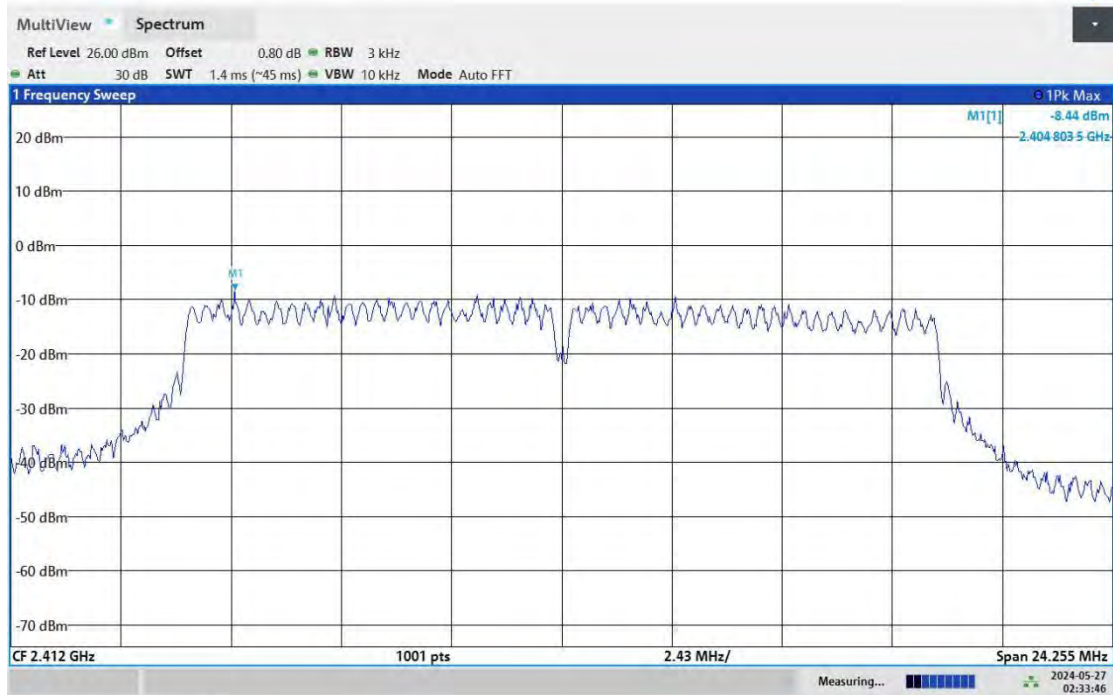
11B\_Ant0\_2462



07:43:16 AM 06/06/2024

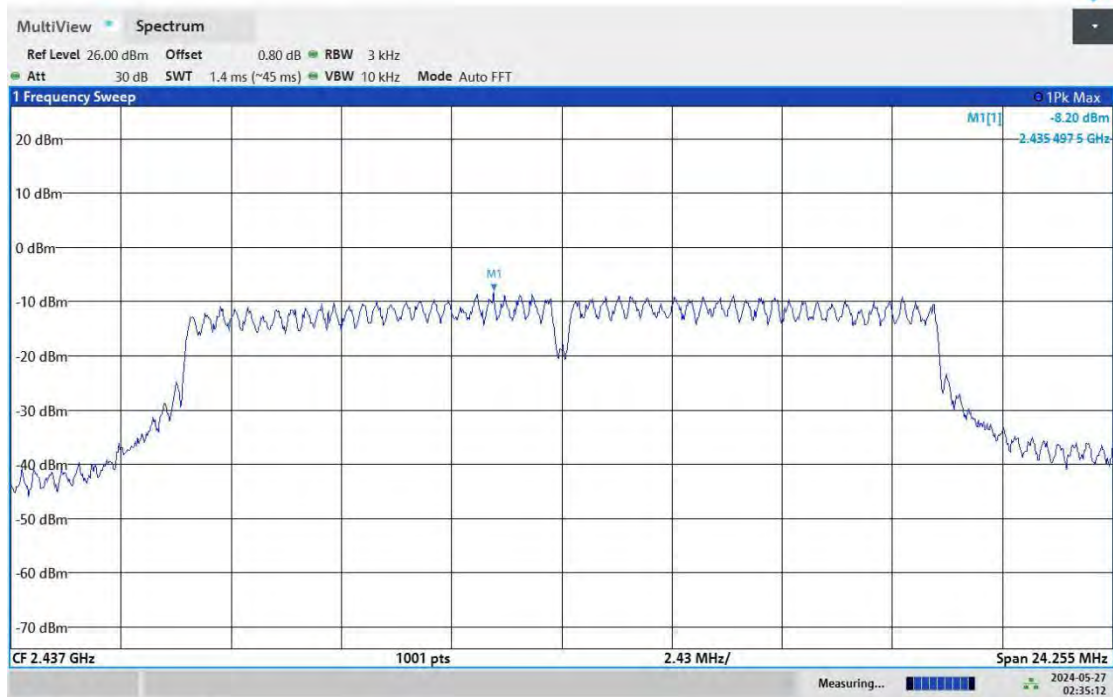
11G\_Ant0\_2412





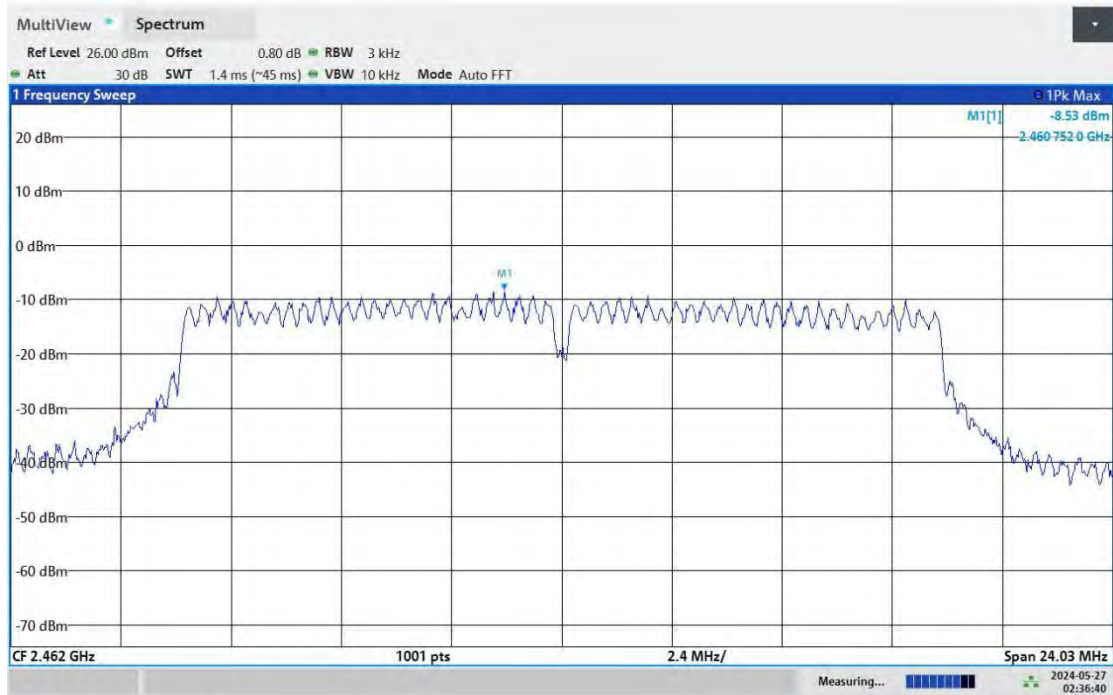
02:33:47 AM 05/27/2024

11G\_Ant0\_2437



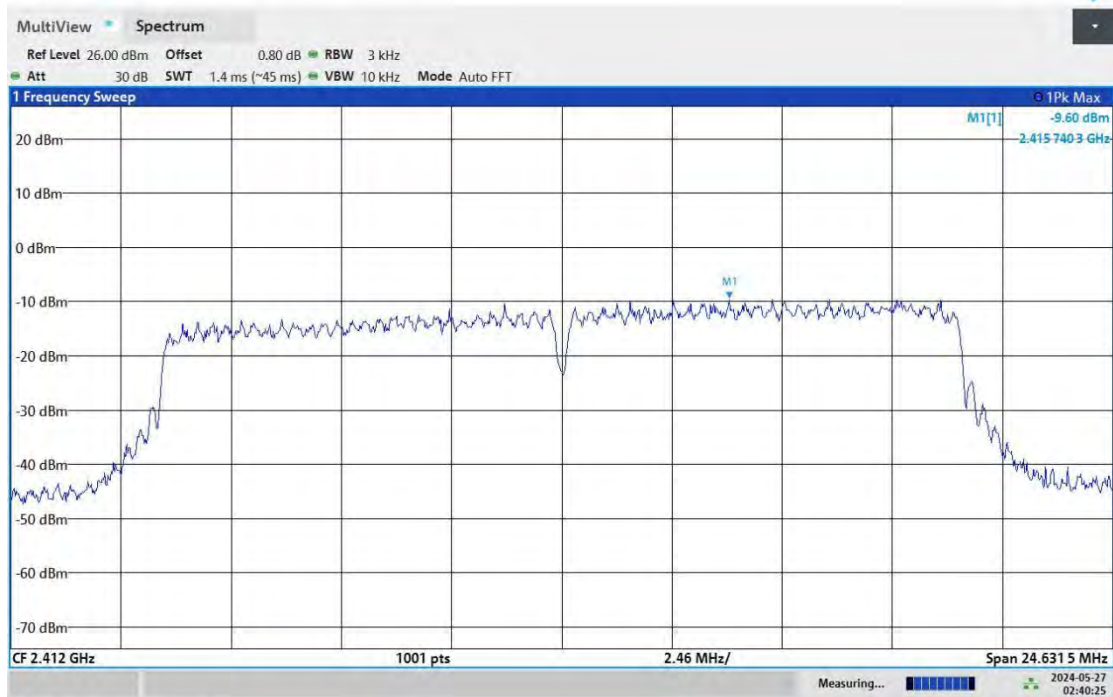
02:35:12 AM 05/27/2024

11G\_Ant0\_2462



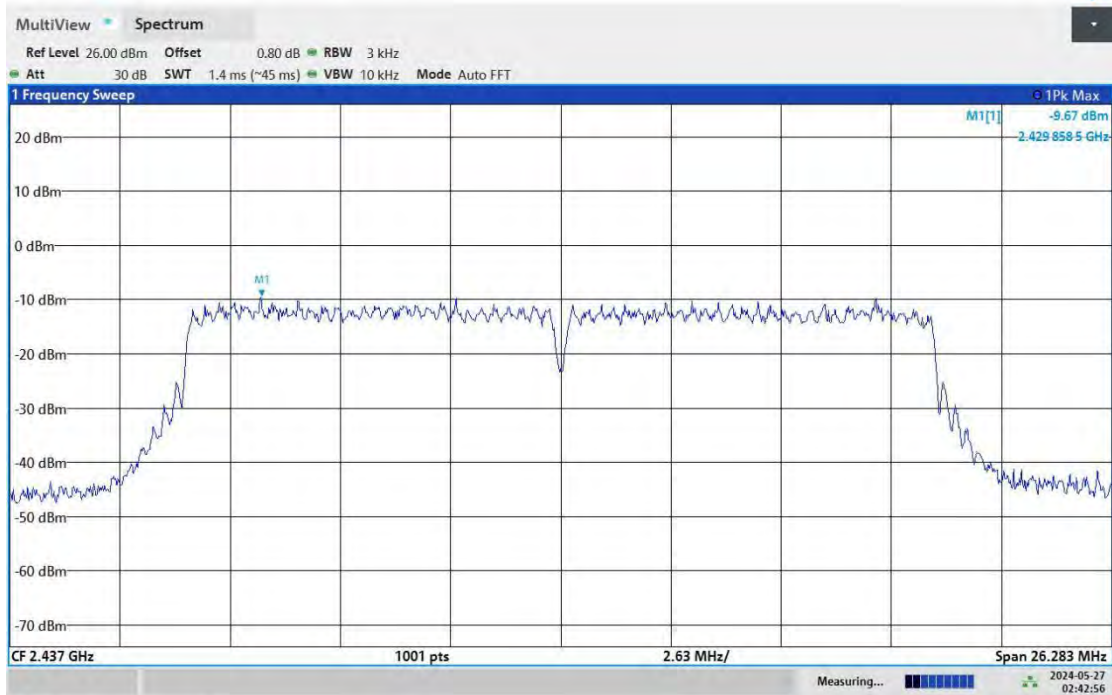
02:36:41 AM 05/27/2024

11N20\_Ant0\_2412



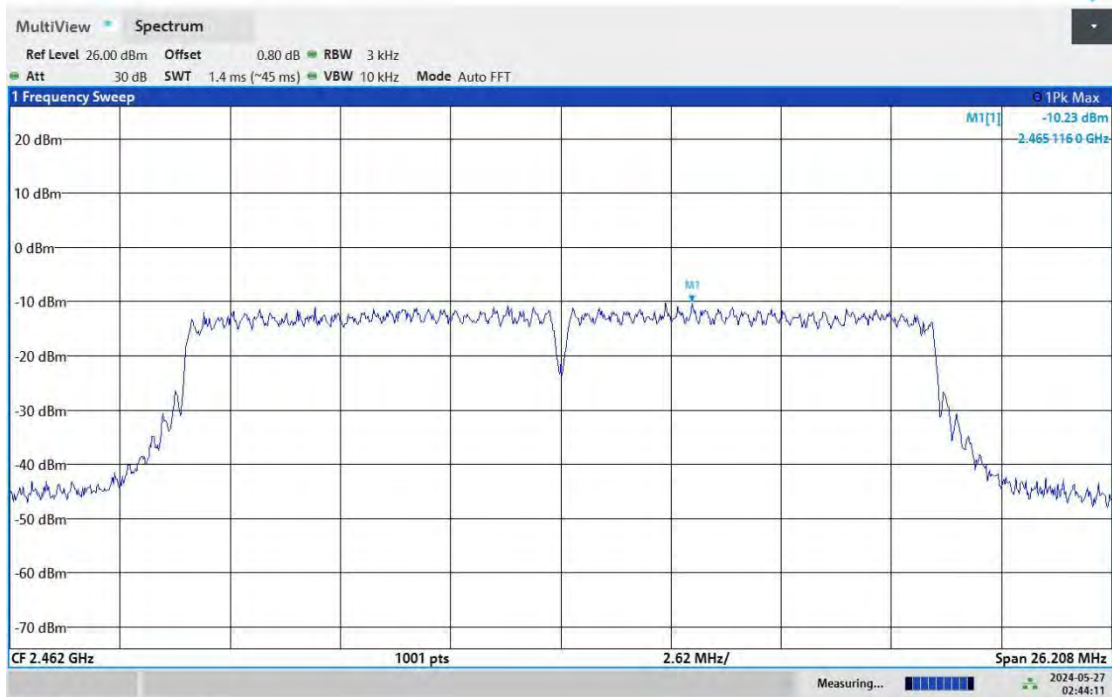
02:40:26 AM 05/27/2024

11N20\_Ant0\_2437



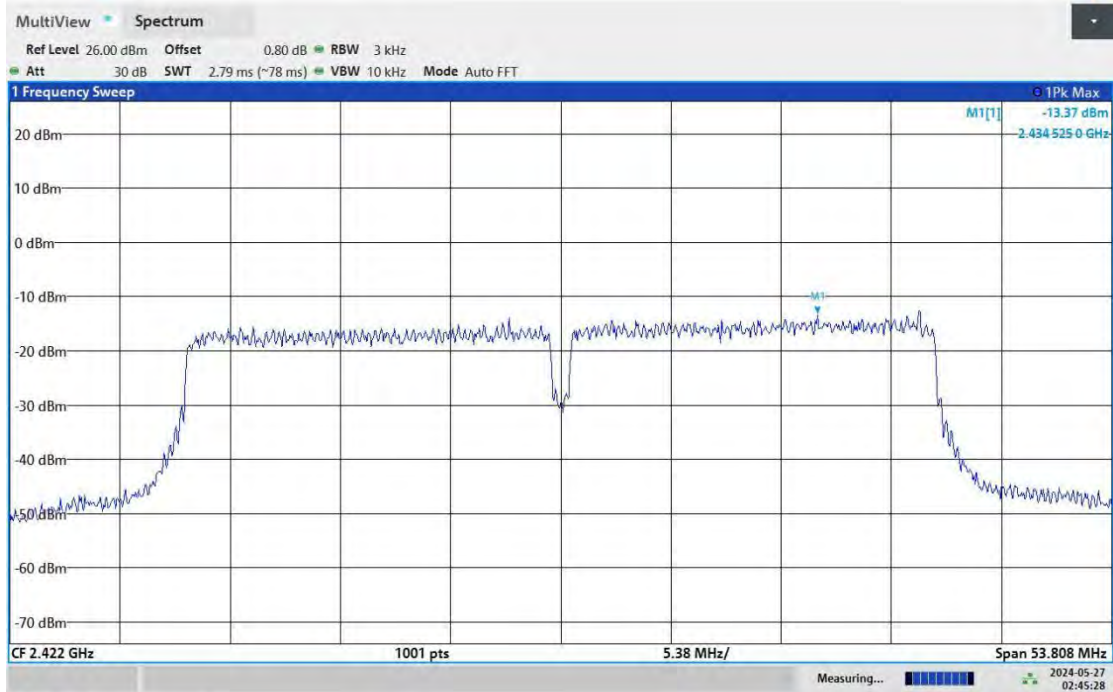
02:42:57 AM 05/27/2024

11N20\_Ant0\_2462



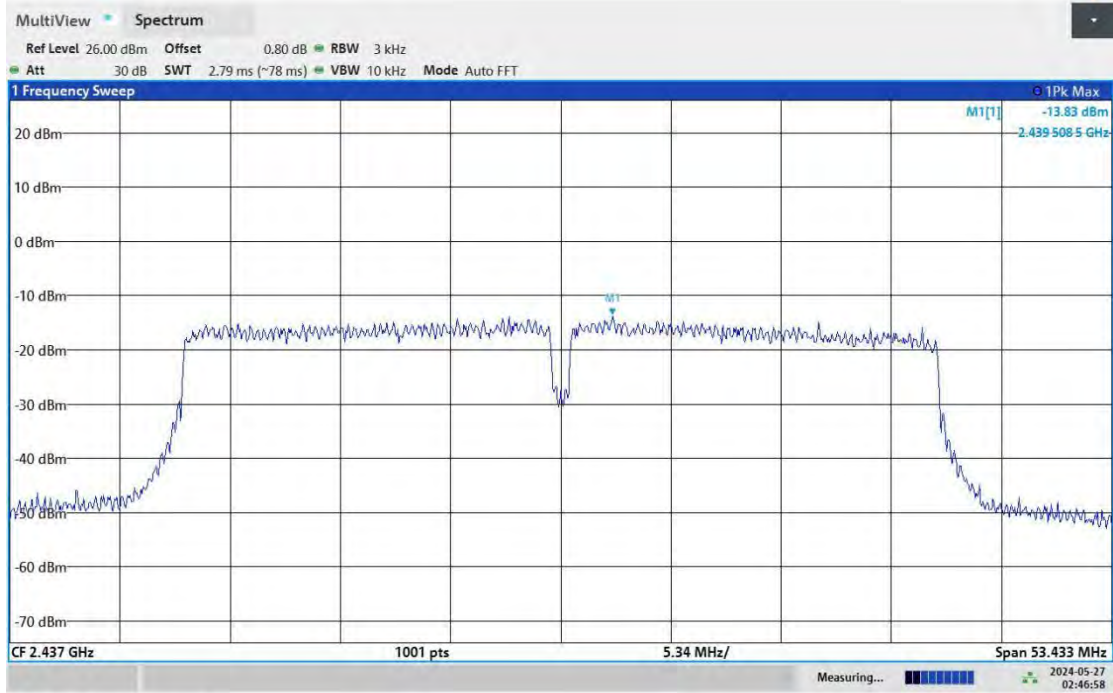
02:44:11 AM 05/27/2024

11N40\_Ant0\_2422



02:45:29 AM 05/27/2024

11N40\_Ant0\_2437



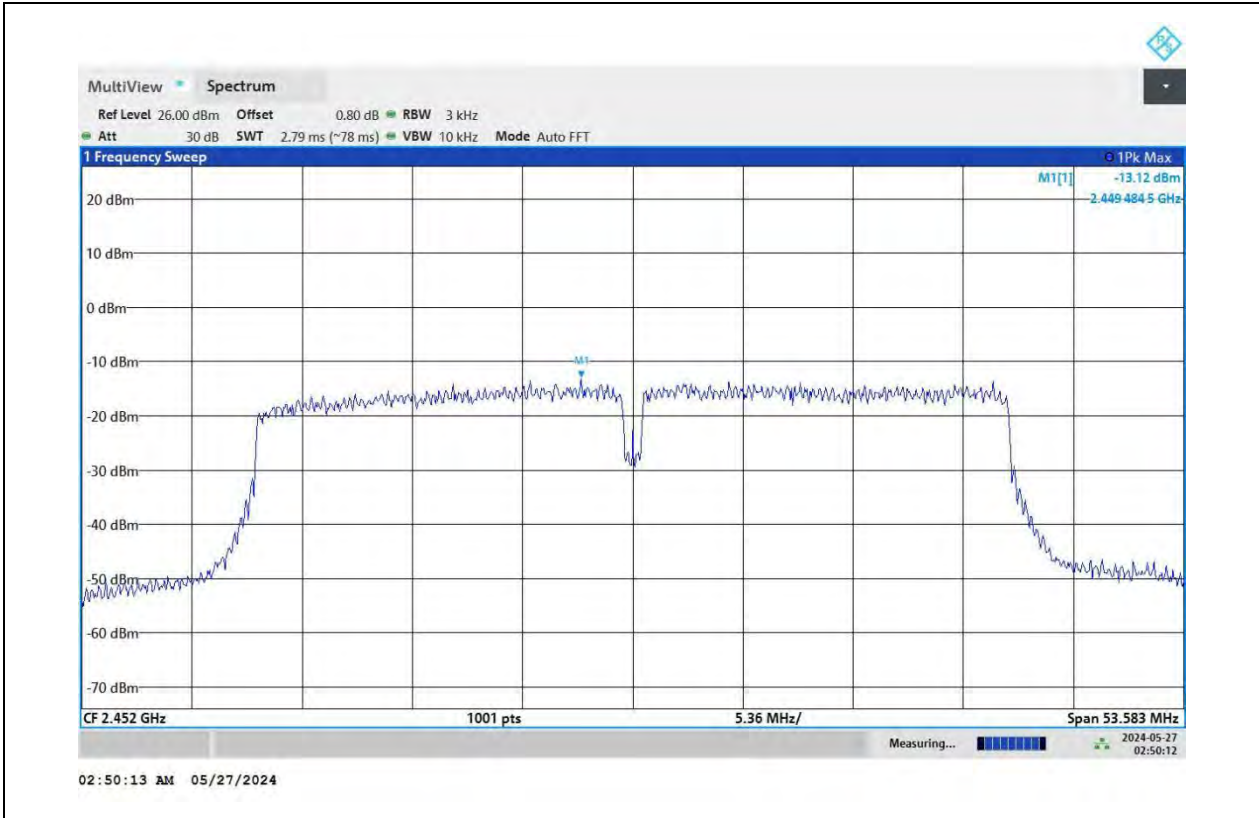
02:46:59 AM 05/27/2024

11N40\_Ant0\_2452



**BUREAU  
VERITAS**

### Test Report No.: PSU-NQN2405090215RF06





## BAND EDGE MEASUREMENTS

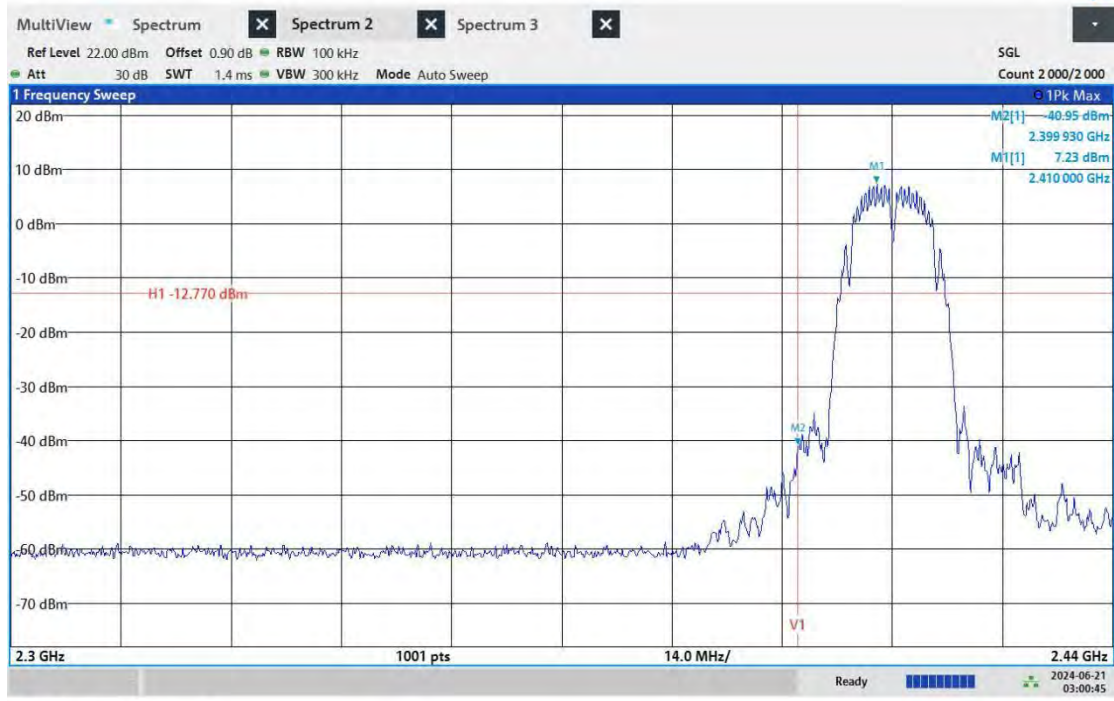
### TEST RESULT

| TestMode | Antenna | ChName | Frequency [MHz] | Result [dBm]   | Limit [dBm]    | Verdict |
|----------|---------|--------|-----------------|----------------|----------------|---------|
| 11B      | Ant0    | Low    | 2412            | See test graph | See test graph | PASS    |
|          | Ant0    | High   | 2462            | See test graph | See test graph | PASS    |
| 11G      | Ant0    | Low    | 2412            | See test graph | See test graph | PASS    |
|          | Ant0    | High   | 2462            | See test graph | See test graph | PASS    |
| 11N20    | Ant0    | Low    | 2412            | See test graph | See test graph | PASS    |
|          | Ant0    | High   | 2462            | See test graph | See test graph | PASS    |
| 11N40    | Ant0    | Low    | 2422            | See test graph | See test graph | PASS    |
|          | Ant0    | High   | 2452            | See test graph | See test graph | PASS    |



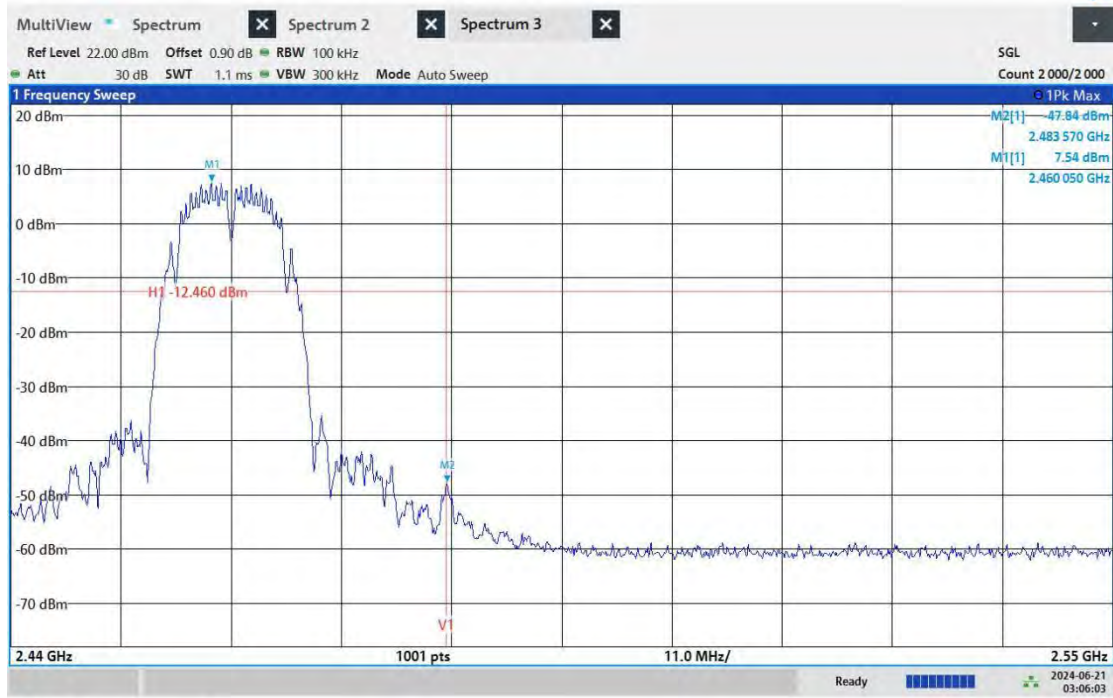
### Test Graphs

11B-CDD\_Ant0\_Low\_2412

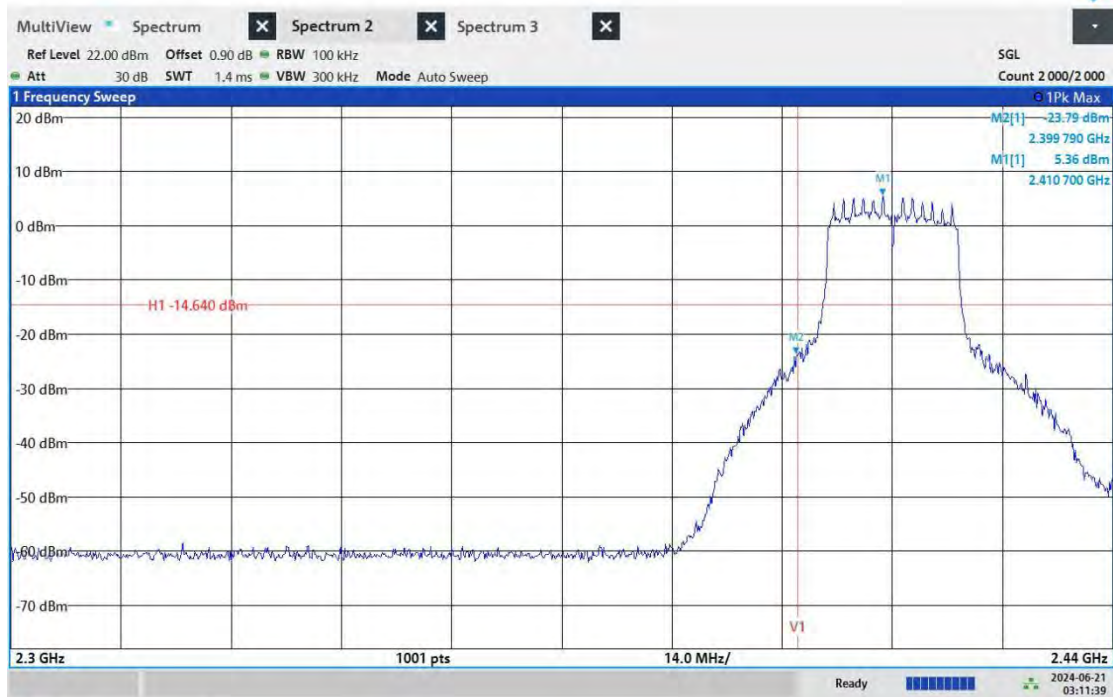


03:00:46 AM 06/21/2024

11B-CDD\_Ant0\_High\_2462

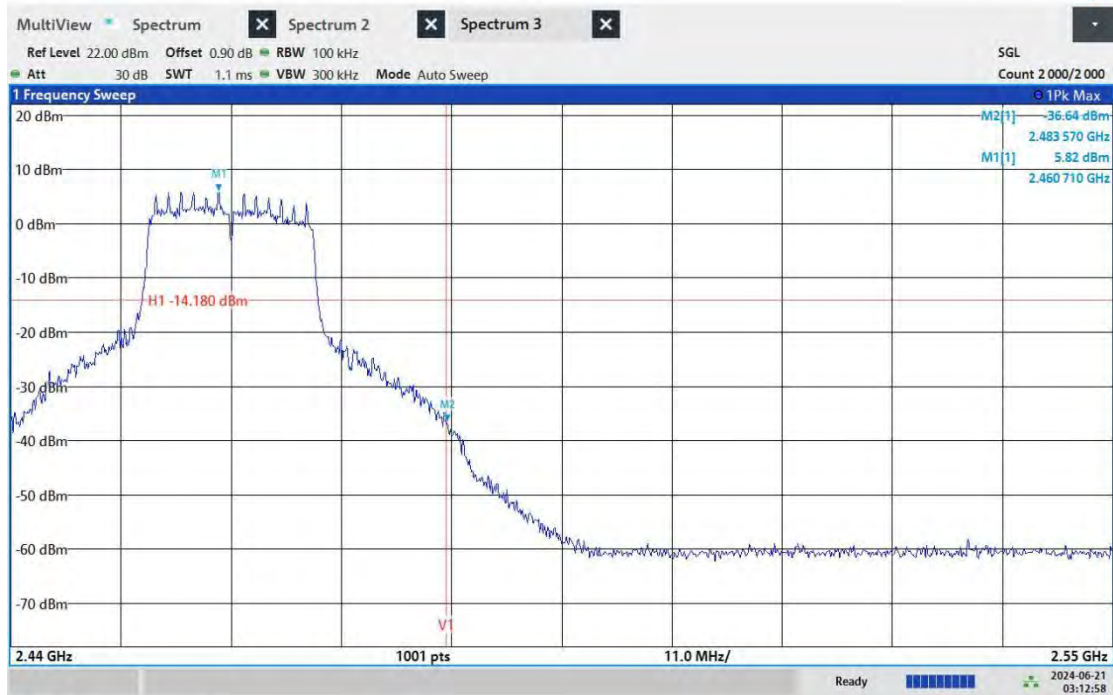


11G-CDD\_Ant0\_Low\_2412



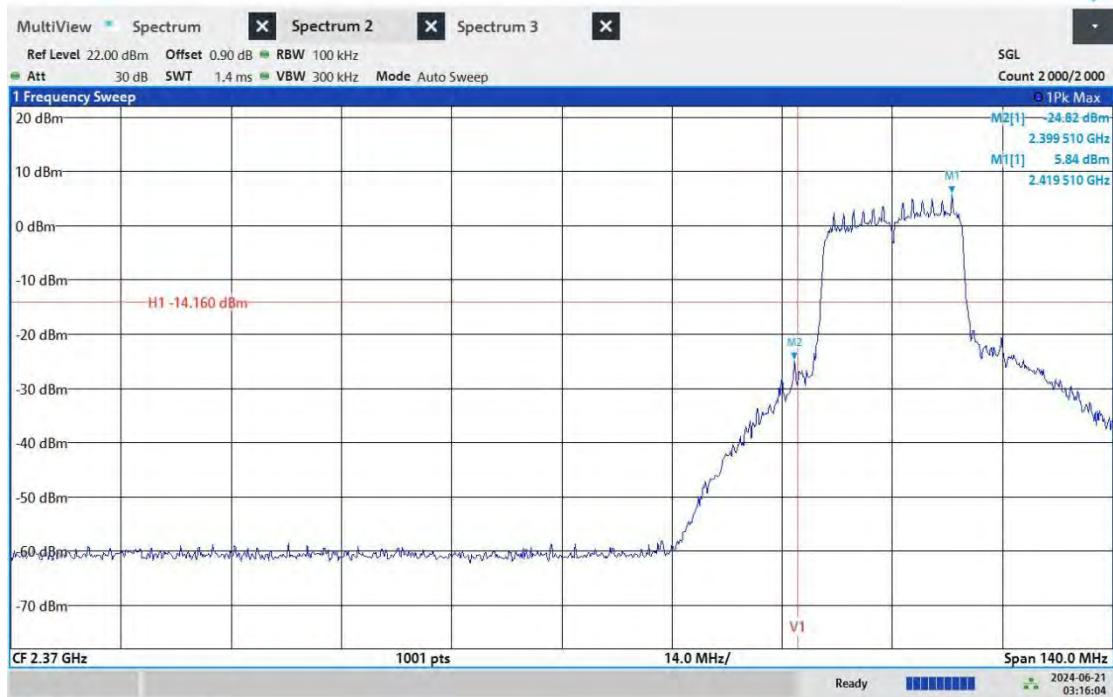
11G-CDD\_Ant0\_High\_2462





03:12:58 AM 06/21/2024

11N20SISO\_Ant0\_Low\_2412



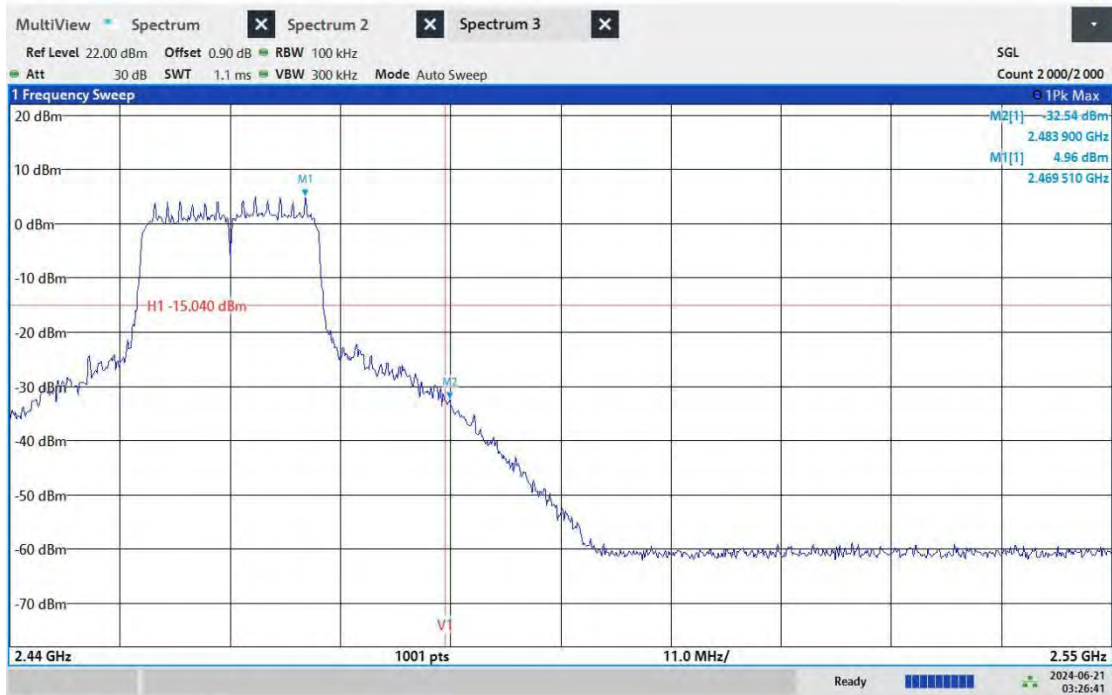
03:16:04 AM 06/21/2024

11N20SISO\_Ant0\_High\_2462



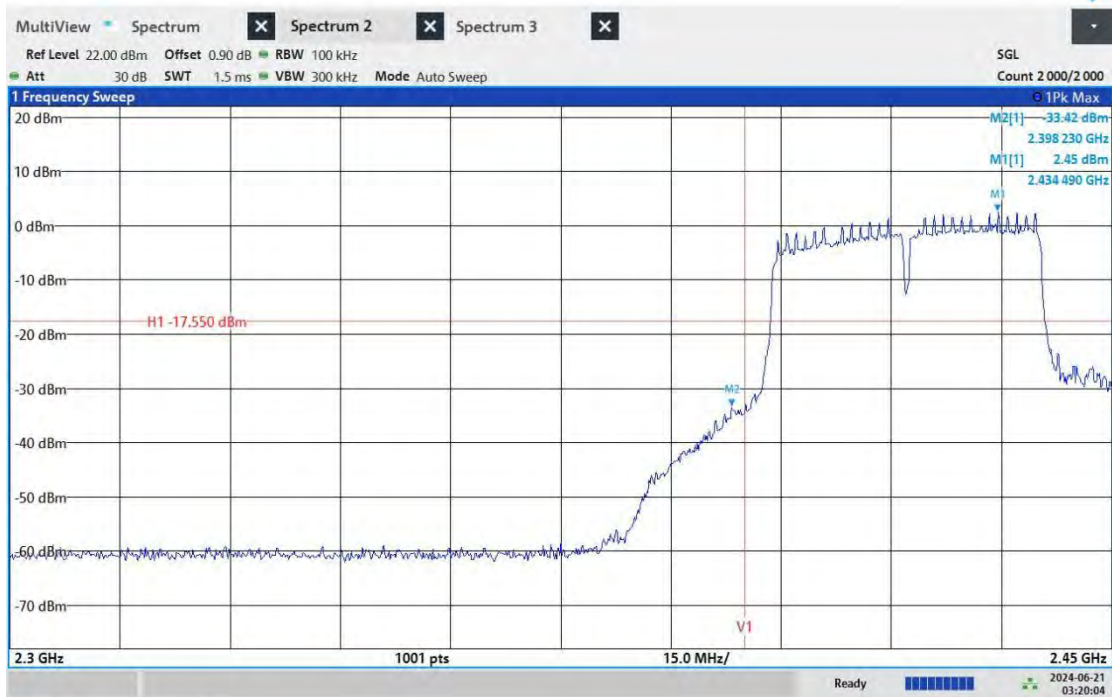
BUREAU VERITAS

# Test Report No.: PSU-NQN2405090215RF06



03:26:41 AM 06/21/2024

11N40SISO\_Ant0\_Low\_2422

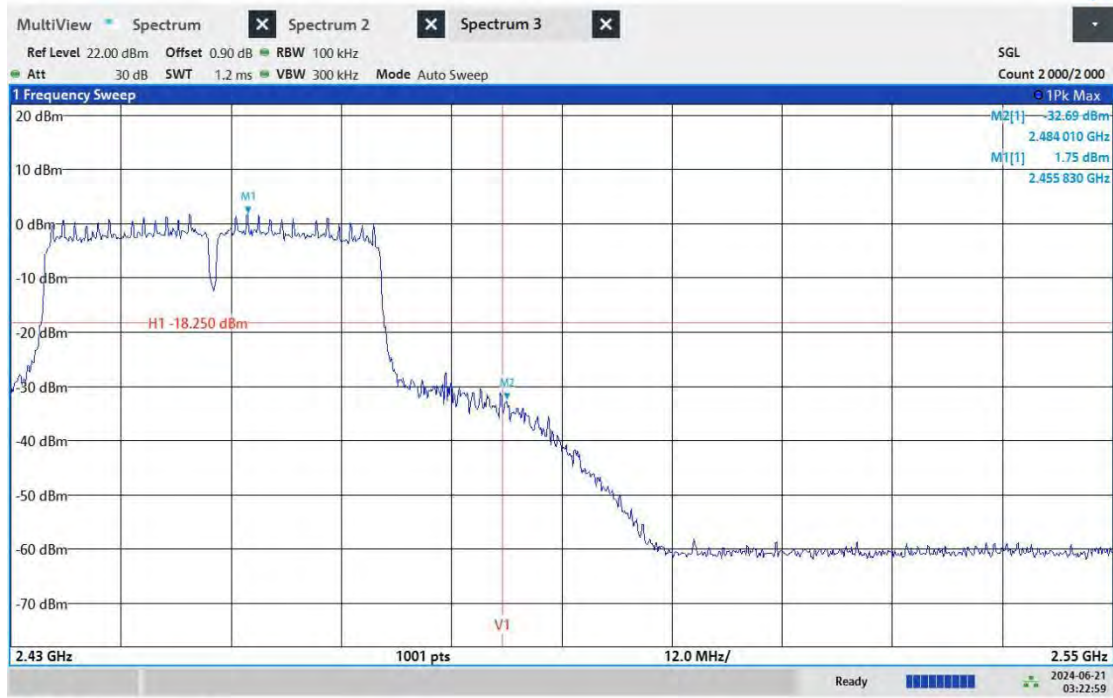


03:20:04 AM 06/21/2024

11N40SISO\_Ant0\_High\_2452



**BUREAU VERITAS** Test Report No.: PSU-NQN2405090215RF06



03:23:00 AM 06/21/2024

20M

RBW 100.000 kHz

VBW 300.000 kHz

40M

RBW 100.000 kHz

VBW 300.000 kHz



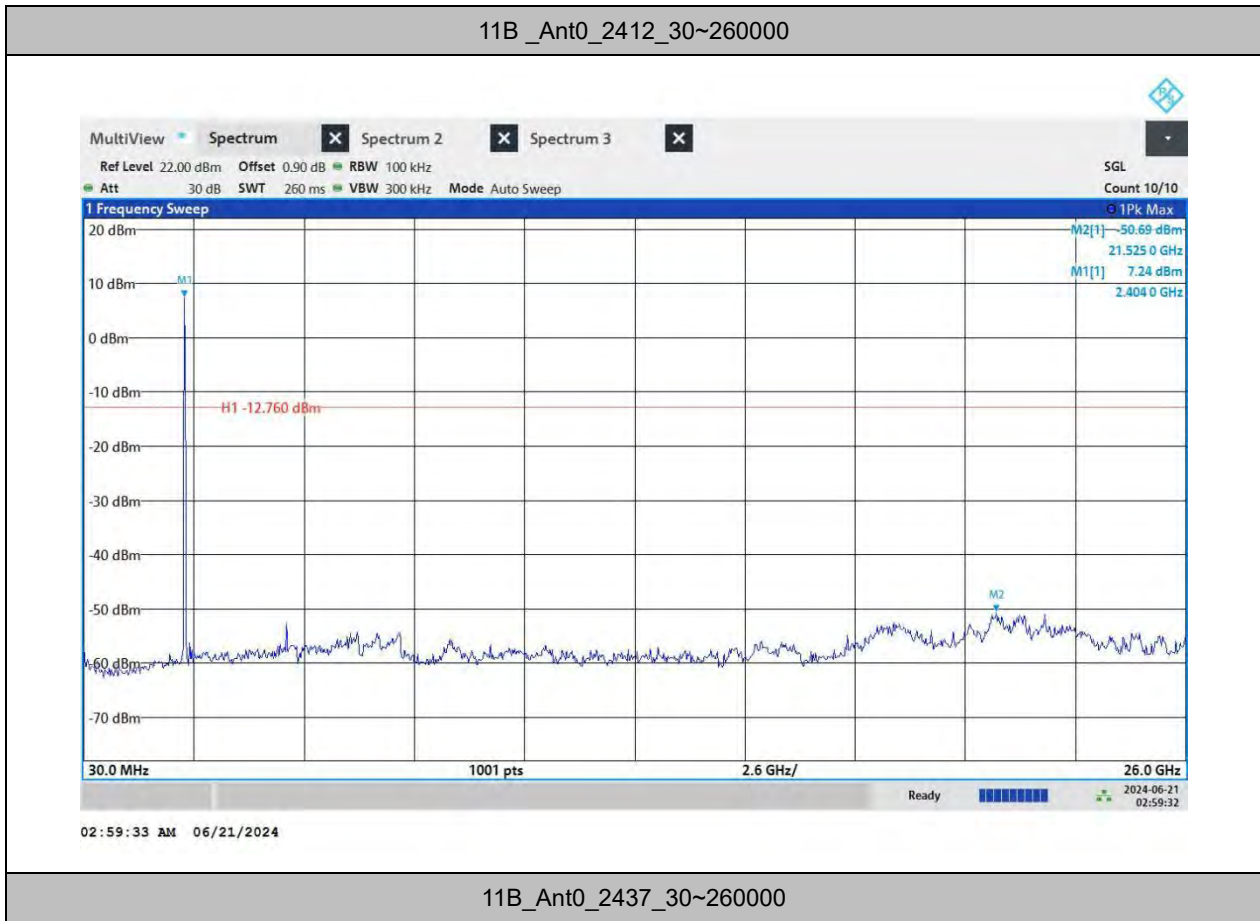
### CONDUCTED SPURIOUS EMISSION

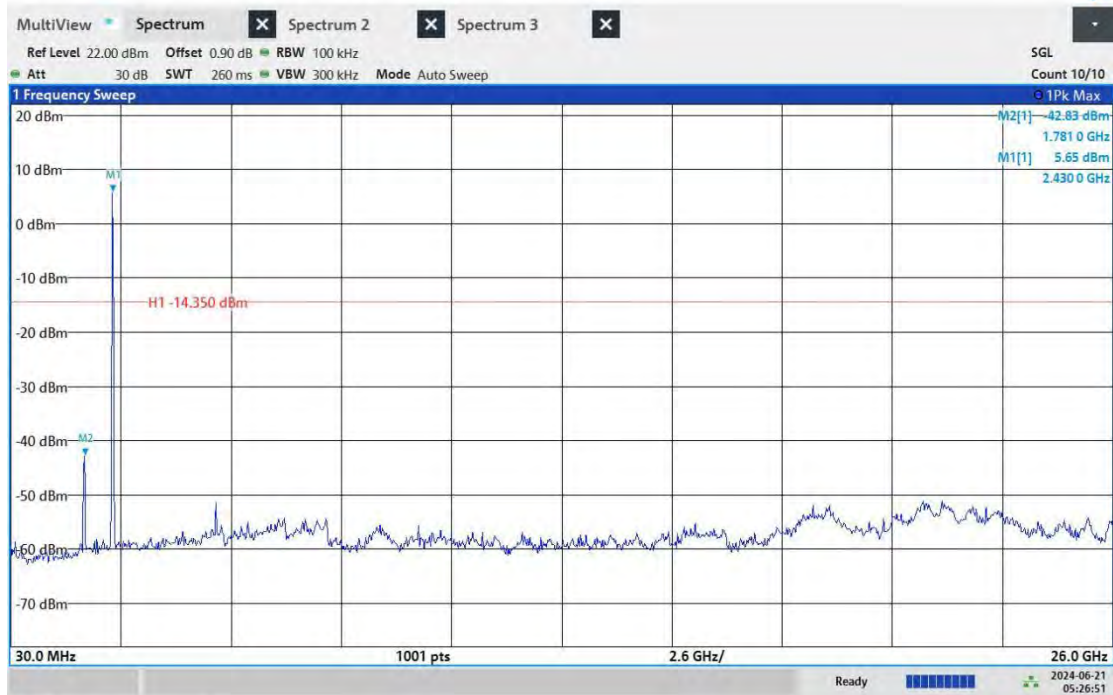
### TEST RESULT

| TestMode | Antenna | Frequency[MHz] | FreqRange [Mhz] | Result [dBm]   | Limit [dBm]    | Verdict |
|----------|---------|----------------|-----------------|----------------|----------------|---------|
| 11B      | Ant0    | 2412           | 30~260000       | See test graph | See test graph | PASS    |
|          | Ant0    | 2437           | 30~260000       | See test graph | See test graph | PASS    |
|          | Ant0    | 2462           | 30~260000       | See test graph | See test graph | PASS    |
| 11G      | Ant0    | 2412           | 30~260000       | See test graph | See test graph | PASS    |
|          | Ant0    | 2437           | 30~260000       | See test graph | See test graph | PASS    |
|          | Ant0    | 2462           | 30~260000       | See test graph | See test graph | PASS    |
| 11N20    | Ant0    | 2412           | 30~260000       | See test graph | See test graph | PASS    |
|          | Ant0    | 2437           | 30~260000       | See test graph | See test graph | PASS    |
|          | Ant0    | 2462           | 30~260000       | See test graph | See test graph | PASS    |
| 11N40    | Ant0    | 2422           | 30~260000       | See test graph | See test graph | PASS    |
|          | Ant0    | 2437           | 30~260000       | See test graph | See test graph | PASS    |
|          | Ant0    | 2452           | 30~260000       | See test graph | See test graph | PASS    |



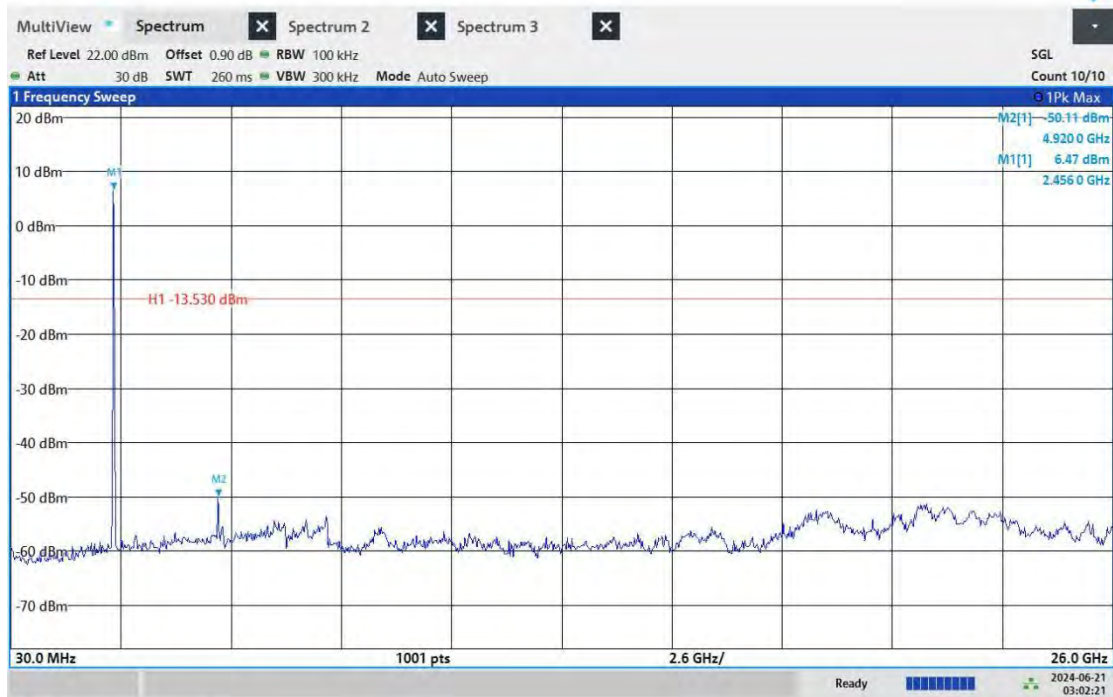
### TEST GRAPHS





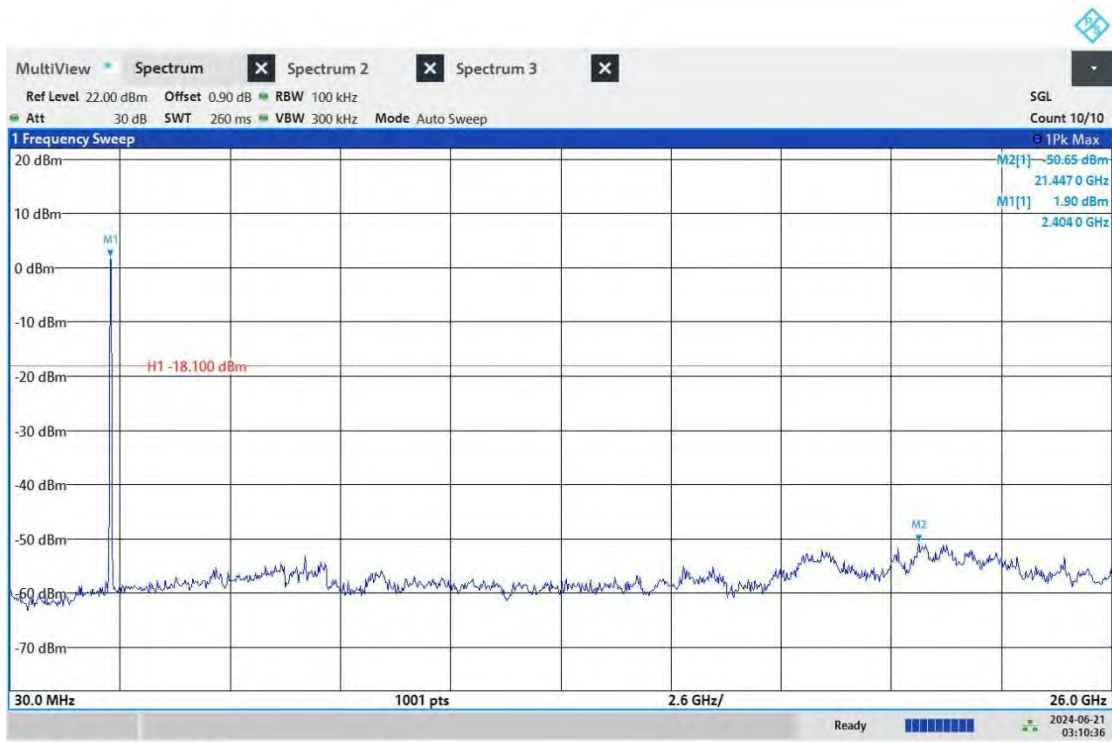
05:26:52 AM 06/21/2024

11B\_Ant0\_2462\_30~260000



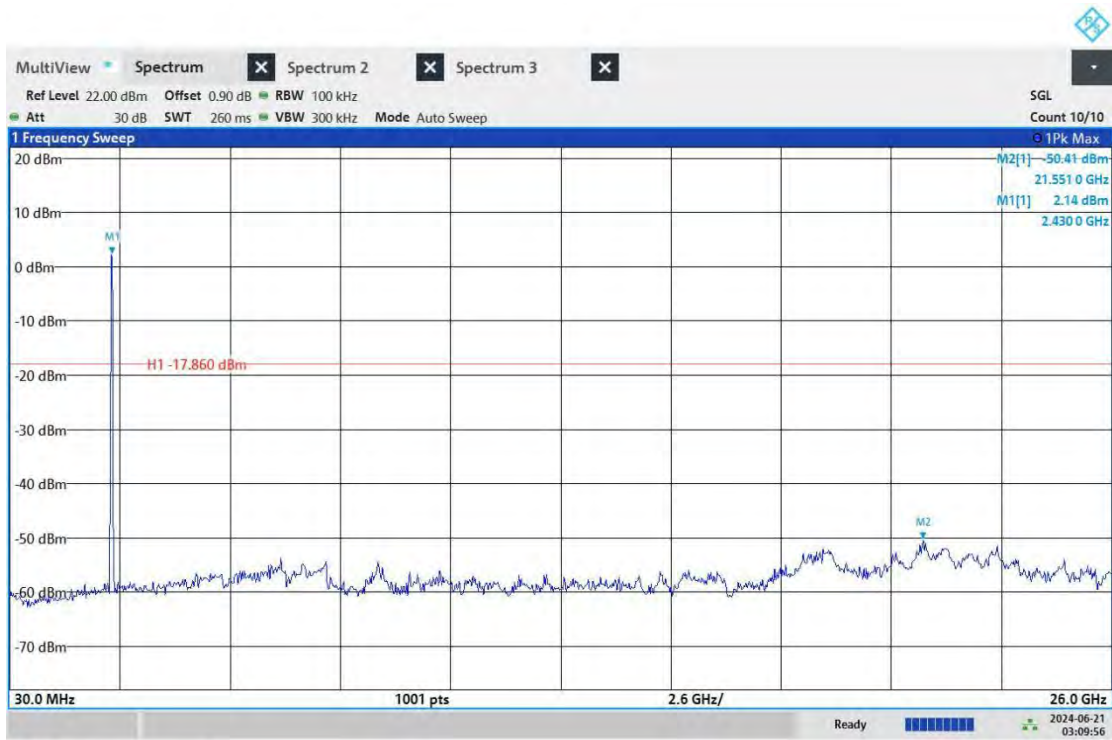
03:02:21 AM 06/21/2024

11G\_Ant0\_2412\_30~260000



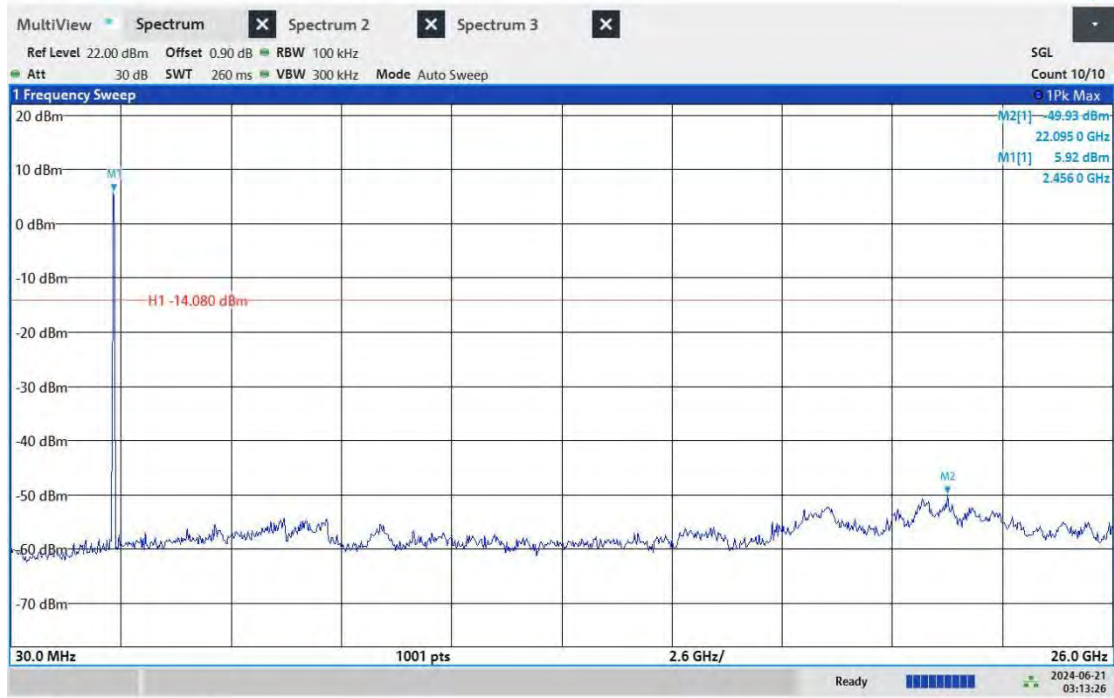
03:10:37 AM 06/21/2024

11G\_Ant0\_2437\_30~260000



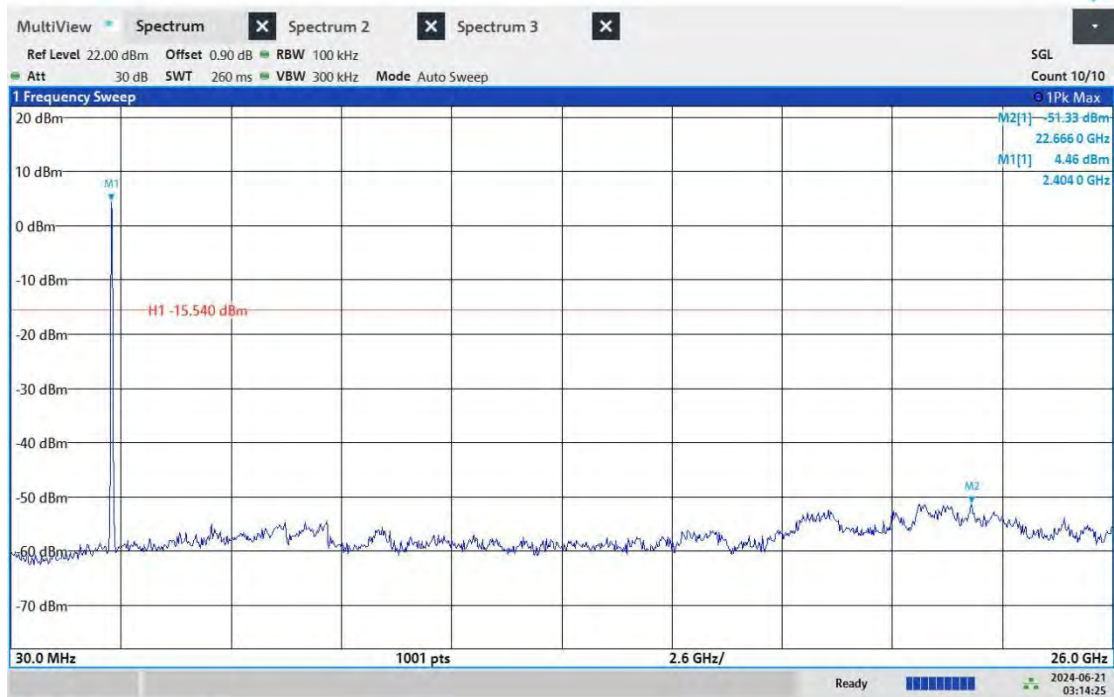
03:09:57 AM 06/21/2024

11G\_Ant0\_2462\_30~260000



03:13:27 AM 06/21/2024

11N20\_Ant0\_2412\_30~260000



03:14:25 AM 06/21/2024

11N20\_Ant0\_2437\_30~260000