



## CTC Laboratories, Inc.

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# TEST REPORT

**Report No.** ..... : **CTC20231948E01**

**FCC ID** ..... : **2BEY4-E94**

**Applicant** ..... : **Kontron d.o.o.**

**Address** ..... : Ljubljanska cesta 24a, 4000 Kranj, Slovenia

**Manufacturer** ..... : Kontron d.o.o.

**Address** ..... : Ljubljanska cesta 24a, 4000 Kranj, Slovenia

**Product Name** ..... : **Dual Band GPON ON/ Mesh Router**

**Trade Mark** ..... : Innbox

**Model/Type reference** ..... : E94

**Listed Model(s)** ..... : G94

**Standard** ..... : **FCC CFR Title 47 Part 15 Subpart C Section 15.247**

**Date of receipt of test sample** ..... : Oct. 12, 2023

**Date of testing** ..... : Oct. 27, 2023 ~ Dec. 8, 2023

**Date of issue** ..... : Feb. 26, 2024

**Result** ..... : **PASS**

Compiled by:

(Printed name+signature)

Lucy Lan

Supervised by:

(Printed name+signature)

Eric Zhang

Approved by:

(Printed name+signature)

Totti Zhao

**Testing Laboratory Name** ..... : **CTC Laboratories, Inc.**

**Address** ..... : 2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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## 1. TEST SUMMARY

### 1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Operation within the bands 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz.

[ANSI C63.10-2013](#): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

### 1.2. Report Version

| Revised No. | Date of issue | Description |
|-------------|---------------|-------------|
| 01          | Feb. 26, 2024 | Original    |
|             |               |             |
|             |               |             |

### 1.3. Test Description

| FCC Part 15 Subpart C (15.247)             |                         |        |               |
|--------------------------------------------|-------------------------|--------|---------------|
| Test Item                                  | Standard Section        | Result | Test Engineer |
| Antenna Requirement                        | 15.203                  | Pass   | Curry         |
| Conducted Emission                         | 15.207                  | Pass   | Curry         |
| Conducted Band Edge and Spurious Emissions | 15.247(d)               | Pass   | Curry         |
| Radiated Band Edge and Spurious Emissions  | 15.205&15.209&15.247(d) | Pass   | Curry         |
| 6dB Bandwidth                              | 15.247(a)(2)            | Pass   | Curry         |
| Conducted Max Output Power                 | 15.247(b)(3)            | Pass   | Curry         |
| Power Spectral Density                     | 15.247(e)               | Pass   | Curry         |
| Transmitter Radiated Spurious              | 15.209&15.247(d)        | Pass   | Curry         |

Note:

1. The measurement uncertainty is not included in the test result.
2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.



## 1.4. Test Facility

### Address of the report laboratory

#### CTC Laboratories, Inc.

Add: 2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

### Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

#### A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

#### FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.



## 1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.

| Test Items                                      | Measurement Uncertainty                                 | Notes |
|-------------------------------------------------|---------------------------------------------------------|-------|
| DTS Bandwidth                                   | $\pm 0.0196\%$                                          | (1)   |
| Maximum Conducted Output Power                  | $\pm 0.686$ dB                                          | (1)   |
| Maximum Power Spectral Density Level            | $\pm 0.743$ dB                                          | (1)   |
| Band-edge Compliance                            | $\pm 1.328$ dB                                          | (1)   |
| Unwanted Emissions In Non-restricted Freq Bands | 9kHz-1GHz: $\pm 0.746$ dB<br>1GHz-26GHz: $\pm 1.328$ dB | (1)   |
| Conducted Emissions 9kHz~30MHz                  | $\pm 3.08$ dB                                           | (1)   |
| Radiated Emissions 30~1000MHz                   | $\pm 4.51$ dB                                           | (1)   |
| Radiated Emissions 1~18GHz                      | $\pm 5.84$ dB                                           | (1)   |
| Radiated Emissions 18~40GHz                     | $\pm 6.12$ dB                                           | (1)   |

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

## 1.6. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

|                    |                |
|--------------------|----------------|
| Temperature:       | 15 °C to 35 °C |
| Relative Humidity: | 20 % to 75 %   |
| Air Pressure:      | 101 kPa        |



## 2. GENERAL INFORMATION

### 2.1. Client Information

|               |                                                                                                                                                                         |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant:    | Kontron d.o.o.                                                                                                                                                          |
| Address:      | Ljubljanska cesta 24a, 4000 Kranj, Slovenia                                                                                                                             |
| Manufacturer: | Kontron d.o.o.                                                                                                                                                          |
| Address:      | Ljubljanska cesta 24a, 4000 Kranj, Slovenia                                                                                                                             |
| Factory:      | Shenzhen Skyworth Digital Technology Co.,LTD. Baoan Branch Factory                                                                                                      |
| Address:      | 2-5F,Integration Multi-Storied Building, Skyworth Science and Technology Industrial Park, Tangtou Industrial Zone, Shiyao Street, Baoan District, Shenzhen city, China. |

### 2.2. General Description of EUT

|                       |                                                                                                                                                                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:         | Dual Band GPON ON/ Mesh Router                                                                                                                                                                                                                                                                                                 |
| Trade Mark:           | Innbox                                                                                                                                                                                                                                                                                                                         |
| Model/Type reference: | E94                                                                                                                                                                                                                                                                                                                            |
| Listed Model(s):      | G94                                                                                                                                                                                                                                                                                                                            |
| Model Difference:     | E94 is a router, G94 is a light cat; G94 uses PON uplink, E94 uses WAN uplink; The appearance of the two products is completely consistent, the internal PCB version and circuit routing are completely consistent, and the WiFi module and antenna are completely consistent. And different is model number and Product Name. |
| Power Supply:         | DC12V 2A from AC/DC Adapter                                                                                                                                                                                                                                                                                                    |
| Adapter Model         | BY-SKY120200U70L<br>Input: 100-240V~ 50/60Hz 0.7A<br>Output: 12Vdc/2A                                                                                                                                                                                                                                                          |
| Hardware Version:     | /                                                                                                                                                                                                                                                                                                                              |
| Software Version:     | /                                                                                                                                                                                                                                                                                                                              |

#### 2.4G Wi-Fi

|                      |                                                                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Modulation:          | 802.11b: DSSS (CCK, DQPSK, DBPSK)<br>802.11g/ n: OFDM (BPSK, QPSK, 16QAM, 64QAM)<br>802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) |
| Operation Frequency: | 802.11b/ g/ n(HT20)/ ax(HE20): 2412MHz~2462MHz<br>802.11n(HT40)/ ax(HE40): 2422MHz~2452MHz                                                      |
| Channel Number:      | 802.11b/ g/ n(HT20)/ ax(HE20): 11 channels<br>802.11n(HT40)/ ax(HE40): 7 channels                                                               |
| Channel Separation:  | 5MHz                                                                                                                                            |
| Antenna Type:        | dipole Antenna                                                                                                                                  |
| Antenna Gain:        | 1.6dBi                                                                                                                                          |



## 2.3. Accessory Equipment Information

| Equipment Information     |                     |              |              |
|---------------------------|---------------------|--------------|--------------|
| Name                      | Model               | S/N          | Manufacturer |
| Notebook                  | ThinkBook 14 G3 ACL | /            | Lenovo       |
| Cable Information         |                     |              |              |
| Name                      | Shielded Type       | Ferrite Core | Length       |
| LAN Cable                 | Unshielded          | NO           | 150cm        |
| Test Software Information |                     |              |              |
| Name                      | Version             | /            | /            |
| QATool                    | UIv2.17_DLLv6.00    | /            | /            |



## 2.4. Operation State

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

| Channel | Frequency (MHz) |
|---------|-----------------|
| 01      | 2412            |
| 02      | 2417            |
| 03      | 2422            |
| 04      | 2427            |
| 05      | 2432            |
| 06      | 2437            |
| 07      | 2442            |
| 08      | 2447            |
| 09      | 2452            |
| 10      | 2457            |
| 11      | 2462            |

Note: CH 01~CH 11 for 802.11b/g/n(HT20)/ax(HE20), CH 03~CH 09 for 802.11n(HT40)/ax(HE40).

Antenna Specification:

| Ant. | Brand | Model Name | Antenna Type   | Connector | Gain(dBi) |
|------|-------|------------|----------------|-----------|-----------|
| 1    | NA    | NA         | dipole Antenna | IPEX      | 1.6       |
| 2    | NA    | NA         | dipole Antenna | IPEX      | 1.6       |
| 3    | NA    | NA         | dipole Antenna | IPEX      | 1.6       |
| 4    | NA    | NA         | dipole Antenna | IPEX      | 1.6       |

For 2.4G, this EUT supports MIMO 4X4 with the same antenna gain, and any transmit signals are correlated with each other.

According to KDB 662911 D01, Directional Gain =  $G_{Ant} + 10\log(N)$  dBi, that is Directional Gain =  $1.6 + 10\log(4)$  dBi = 7.62dBi. So output power limit is  $30 - 7.62 + 6 = 28.38$  dBm, and the power spectral density limit is  $8 - 6.38 + 6 = 6.38$  dBm/3kHz.



## Data Rated:

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is the worsted case mode.

| Test Mode              | Data Rate (worst mode) |
|------------------------|------------------------|
| 802.11b                | 1Mbps                  |
| 802.11g                | 6Mbps                  |
| 802.11n(HT20)/ (HT40)  | HT-MCS8                |
| 802.11ax(HE20)/ (HE40) | HE-MCS0                |

## Test Mode:

|                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For RF test items:                                                                                                                                                                                                       |
| The engineering test program was provided and enabled to make EUT continuous transmit.                                                                                                                                   |
| For AC power line conducted emissions:                                                                                                                                                                                   |
| The EUT was set to connect with the WLAN AP under large package sizes transmission.                                                                                                                                      |
| For Radiated spurious emissions test item:                                                                                                                                                                               |
| The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report. |

## RU Configuration:

| Operating Mode | Resource Unit          | 26 Tone (2M)   |
|----------------|------------------------|----------------|
| 802.11ax(HE20) | Specific Resource Unit | 0              |
|                |                        | ⋮              |
|                |                        | 4              |
|                |                        | ⋮              |
|                |                        | 8              |
|                | Resource Unit          | 52 Tone (4M)   |
|                | Specific Resource Unit | 37             |
|                |                        | 38             |
|                |                        | 39             |
|                |                        | 40             |
|                | Resource Unit          | 106 Tone (8M)  |
|                | Specific Resource Unit | 53             |
|                |                        | 54             |
|                | Resource Unit          | 242 Tone (20M) |
|                | Specific Resource Unit | 61             |
| Operating Mode | Resource Unit          | 26 Tone (2M)   |
| 802.11ax(HE40) | Specific Resource Unit | 0              |
|                |                        | ⋮              |
|                |                        | 8              |
|                |                        | ⋮              |
|                |                        | 17             |

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|  |                        |                |
|--|------------------------|----------------|
|  | Resource Unit          | 52 Tone (4M)   |
|  | Specific Resource Unit | 37             |
|  |                        | 38             |
|  |                        | 39             |
|  |                        | 40             |
|  |                        | 41             |
|  |                        | 42             |
|  |                        | 43             |
|  |                        | 44             |
|  | Resource Unit          | 106 Tone (8M)  |
|  | Specific Resource Unit | 53             |
|  |                        | 54             |
|  |                        | 55             |
|  |                        | 56             |
|  | Resource Unit          | 242 Tone (20M) |
|  | Specific Resource Unit | 61             |
|  |                        | 62             |
|  | Resource Unit          | 484 Tone (40M) |
|  | Specific Resource Unit | 65             |



## 2.5. Measurement Instruments List

| RF Test System |                                       |              |           |            |                  |
|----------------|---------------------------------------|--------------|-----------|------------|------------------|
| Item           | Test Equipment                        | Manufacturer | Model No. | Serial No. | Calibrated Until |
| 1              | MXA Signal Analyzer                   | Keysight     | N9020A    | MY52091402 | Aug. 22, 2024    |
| 2              | High and low temperature test chamber | ESPEC        | MT3035    | /          | Mar. 24, 2024    |
| 3              | USB Wideband Power Sensor             | Keysight     | U2021XA   | MY55130004 | Mar. 14, 2024    |
| 4              | USB Wideband Power Sensor             | Keysight     | U2021XA   | MY55130006 | Mar. 14, 2024    |
| 5              | Test Software                         | WCS          | WCS-WCN   | 2023.08.04 | /                |

| Radiated Emission (3m chamber 3) |                              |              |            |            |                  |
|----------------------------------|------------------------------|--------------|------------|------------|------------------|
| Item                             | Test Equipment               | Manufacturer | Model No.  | Serial No. | Calibrated Until |
| 1                                | Trilog-Broadband Antenna     | Schwarzbeck  | VULB 9163  | 01026      | Dec. 18, 2024    |
| 2                                | Horn Antenna                 | Schwarzbeck  | BBHA 9120D | 9120D-647  | Dec. 01, 2024    |
| 3                                | Test Receiver                | Keysight     | N9038A     | MY56400071 | Dec. 16, 2023    |
| 4                                | Broadband Amplifier          | SCHWARZBECK  | BBV9743B   | 259        | Dec. 16, 2023    |
| 5                                | Mirowave Broadband Amplifier | SCHWARZBECK  | BBV9718C   | 111        | Dec. 16, 2023    |
| 6                                | 3m chamber 3                 | YIHENG       | EE106      | /          | Aug. 28, 2026    |
| 7                                | Test Software                | FARA         | EZ-EMC     | FA-03A2    | /                |

| Conducted Emission |                   |              |           |                |                  |
|--------------------|-------------------|--------------|-----------|----------------|------------------|
| Item               | Test Equipment    | Manufacturer | Model No. | Serial No.     | Calibrated Until |
| 1                  | LISN              | R&S          | ENV216    | 101112         | Dec. 16, 2023    |
| 2                  | LISN              | R&S          | ENV216    | 101113         | Dec. 16, 2023    |
| 3                  | EMI Test Receiver | R&S          | ESCS30    | 100353         | Dec. 16, 2023    |
| 4                  | ISN CAT6          | Schwarzbeck  | NTFM 8158 | CAT6-8158-0046 | Dec. 16, 2023    |
| 5                  | ISN CAT5          | Schwarzbeck  | NTFM 8158 | CAT5-8158-0046 | Dec. 16, 2023    |
| 6                  | Test Software     | R&S          | EMC32     | 6.10.10        | /                |

Note: 1. The Cal. Interval was one year.

2. The Cal. Interval was three years of the antenna.

3. The cable loss has been calculated in test result which connection between each test instruments.

### 3. TEST ITEM AND RESULTS

#### 3.1. Conducted Emission

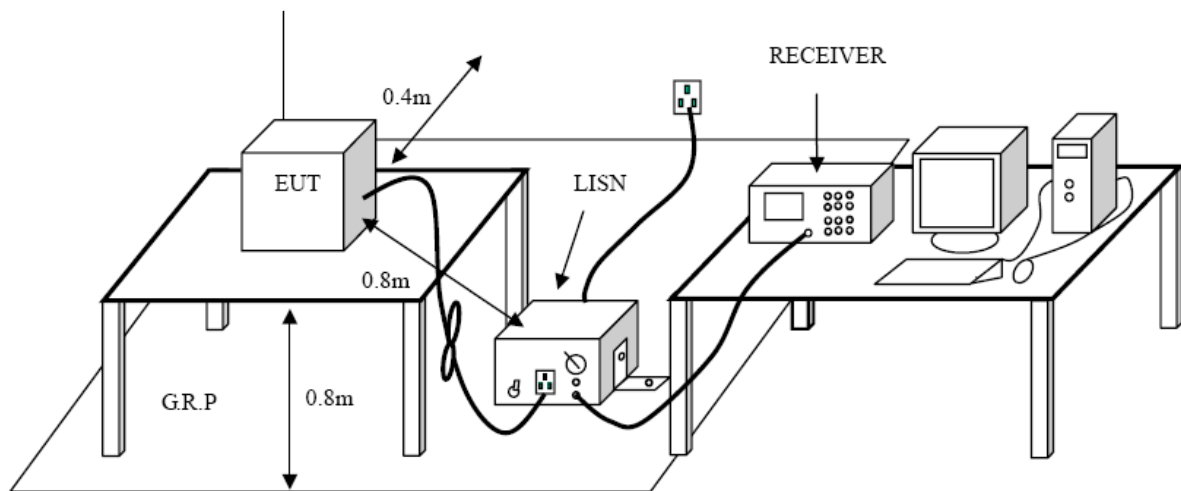
##### Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.207

| Frequency (MHz) | Conducted Limit (dBμV) |            |
|-----------------|------------------------|------------|
|                 | Quasi-peak             | Average    |
| 0.15 - 0.5      | 66 to 56 *             | 56 to 46 * |
| 0.5 - 5         | 56                     | 46         |
| 5 - 30          | 60                     | 50         |

\* Decreases with the logarithm of the frequency.

##### Test Configuration



##### Test Procedure

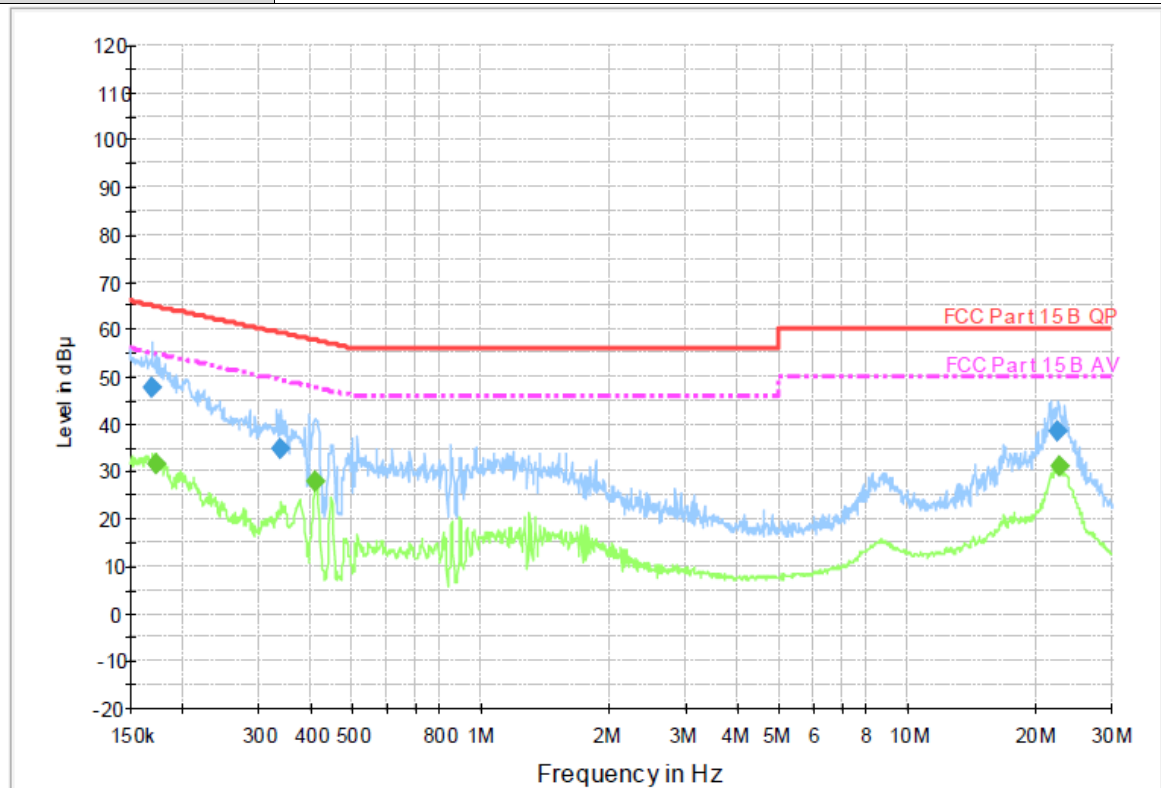
1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm / 50 μH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

##### Test Mode

Please refer to the clause 2.4.

**Test Result**

|               |                             |
|---------------|-----------------------------|
| Test Voltage: | AC 120V/60Hz                |
| Terminal:     | Line                        |
| Remark:       | Only worse case is reported |

**Final Measurement Detector 1**

| Frequency (MHz) | QuasiPeak (dBμ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμ V) | Comment |
|-----------------|-------------------|-----------------|-----------------|--------|------|------------|-------------|---------------|---------|
| 0.168410        | 47.5              | 1000.00         | 9.000           | On     | L1   | 9.4        | 17.5        | 65.0          |         |
| 0.338660        | 34.9              | 1000.00         | 9.000           | On     | L1   | 9.5        | 24.3        | 59.2          |         |
| 22.485430       | 38.6              | 1000.00         | 9.000           | On     | L1   | 9.6        | 21.4        | 60.0          |         |

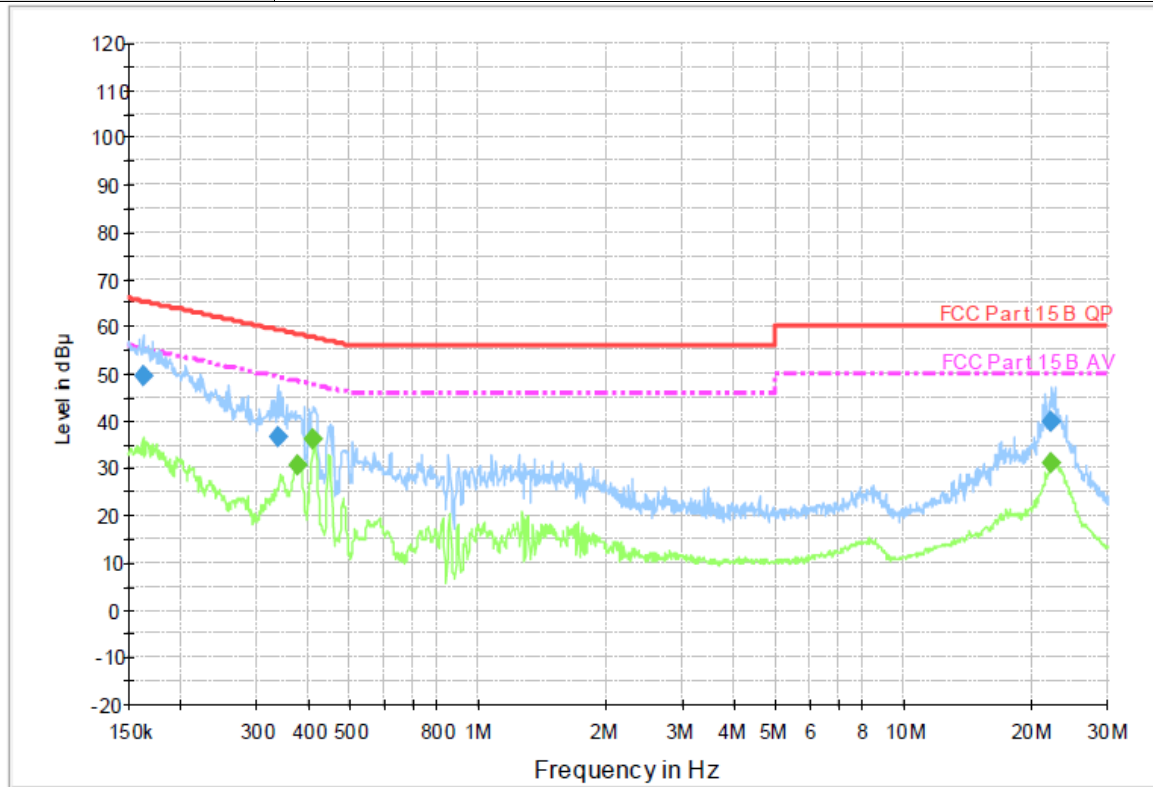
**Final Measurement Detector 2**

| Frequency (MHz) | Average (dBμ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμ V) | Comment |
|-----------------|-----------------|-----------------|-----------------|--------|------|------------|-------------|---------------|---------|
| 0.171810        | 31.6            | 1000.00         | 9.000           | On     | L1   | 9.4        | 23.3        | 54.9          |         |
| 0.406930        | 27.8            | 1000.00         | 9.000           | On     | L1   | 9.5        | 19.9        | 47.7          |         |
| 22.665670       | 31.3            | 1000.00         | 9.000           | On     | L1   | 9.6        | 18.7        | 50.0          |         |

Emission Level = Read Level + Correct Factor



|               |                             |
|---------------|-----------------------------|
| Test Voltage: | AC 120V/60Hz                |
| Terminal:     | Neutral                     |
| Remark:       | Only worse case is reported |



### Final Measurement Detector 1

| Frequency (MHz) | QuasiPeak (dBμ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμ V) | Comment |
|-----------------|-------------------|-----------------|-----------------|--------|------|------------|-------------|---------------|---------|
| 0.162470        | 49.7              | 1000.00         | 9.000           | On     | N    | 9.3        | 15.6        | 65.3          |         |
| 0.335970        | 36.5              | 1000.00         | 9.000           | On     | N    | 9.4        | 22.8        | 59.3          |         |
| 22.217750       | 39.7              | 1000.00         | 9.000           | On     | N    | 9.5        | 20.3        | 60.0          |         |

### Final Measurement Detector 2

| Frequency (MHz) | Average (dBμ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμ V) | Comment |
|-----------------|-----------------|-----------------|-----------------|--------|------|------------|-------------|---------------|---------|
| 0.377210        | 30.7            | 1000.00         | 9.000           | On     | N    | 9.4        | 17.6        | 48.3          |         |
| 0.408560        | 36.3            | 1000.00         | 9.000           | On     | N    | 9.4        | 11.4        | 47.7          |         |
| 22.217750       | 31.3            | 1000.00         | 9.000           | On     | N    | 9.5        | 18.8        | 50.0          |         |

Emission Level = Read Level + Correct Factor

## 3.2. Radiated Emission

### Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.209

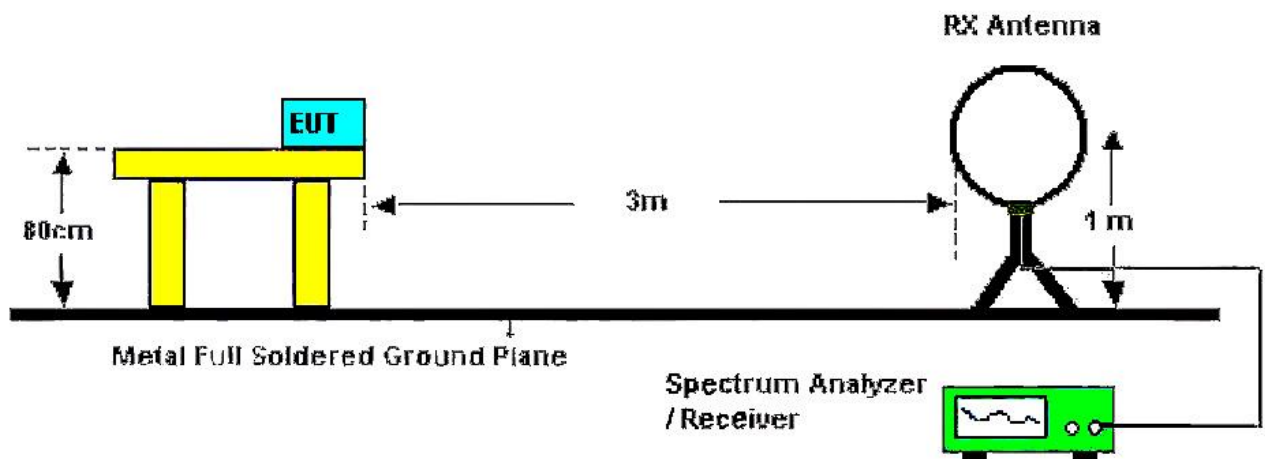
| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009~0.490     | 2400/F (kHz)                      | 300                           |
| 0.490~1.705     | 24000/F (kHz)                     | 30                            |
| 1.705~30.0      | 30                                | 30                            |
| 30~88           | 100                               | 3                             |
| 88~216          | 150                               | 3                             |
| 216~960         | 200                               | 3                             |
| 960~1000        | 500                               | 3                             |

| Frequency Range (MHz) | dBμV/m (at 3 meters) |         |
|-----------------------|----------------------|---------|
|                       | Peak                 | Average |
| Above 1000            | 74                   | 54      |

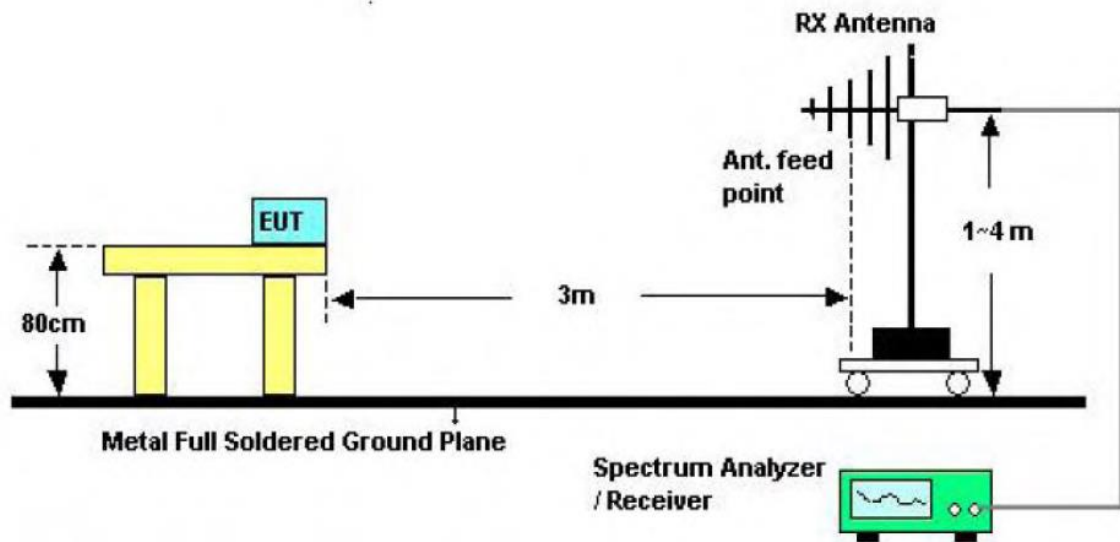
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBμV/m)=20log Emission Level (μV/m).

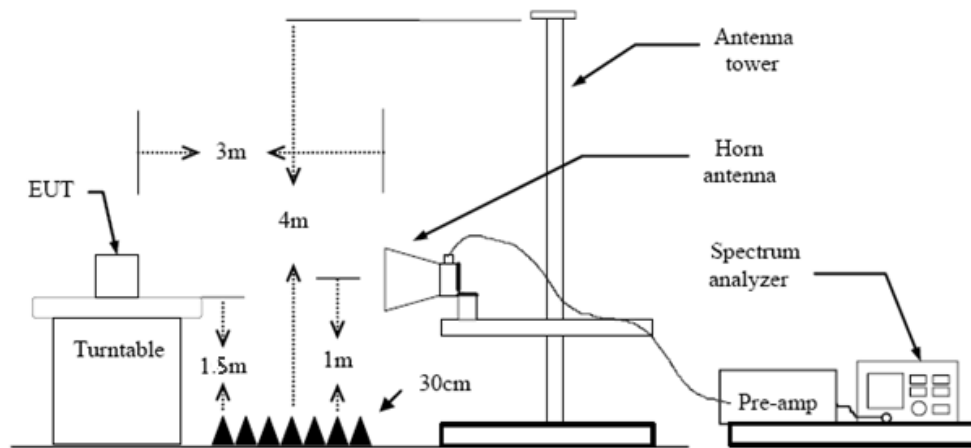
### Test Configuration



Below 30MHz Test Setup



30-1000MHz Test Setup



Above 1GHz Test Setup

### Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013.
  2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
  3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
  4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
  5. Set to the maximum power setting and enable the EUT transmit continuously.
  6. Use the following spectrum analyzer settings
    - (1) Span shall wide enough to fully capture the emission being measured;
    - (2) 9k – 150kHz:  
RBW=300 Hz, VBW=1 kHz, Sweep=auto, Detector function=peak, Trace=max hold
    - (3) 0.15M – 30MHz:  
RBW=10 kHz, VBW=30 kHz, Sweep=auto, Detector function=peak, Trace=max hold
    - (4) 30M - 1 GHz:  
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold
- If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the



peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(5) From 1 GHz to 10<sup>th</sup> harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.8 Duty Cycle.

### **Test Mode**

Please refer to the clause 2.4.

### **Test Result**

#### **9 kHz~30 MHz**

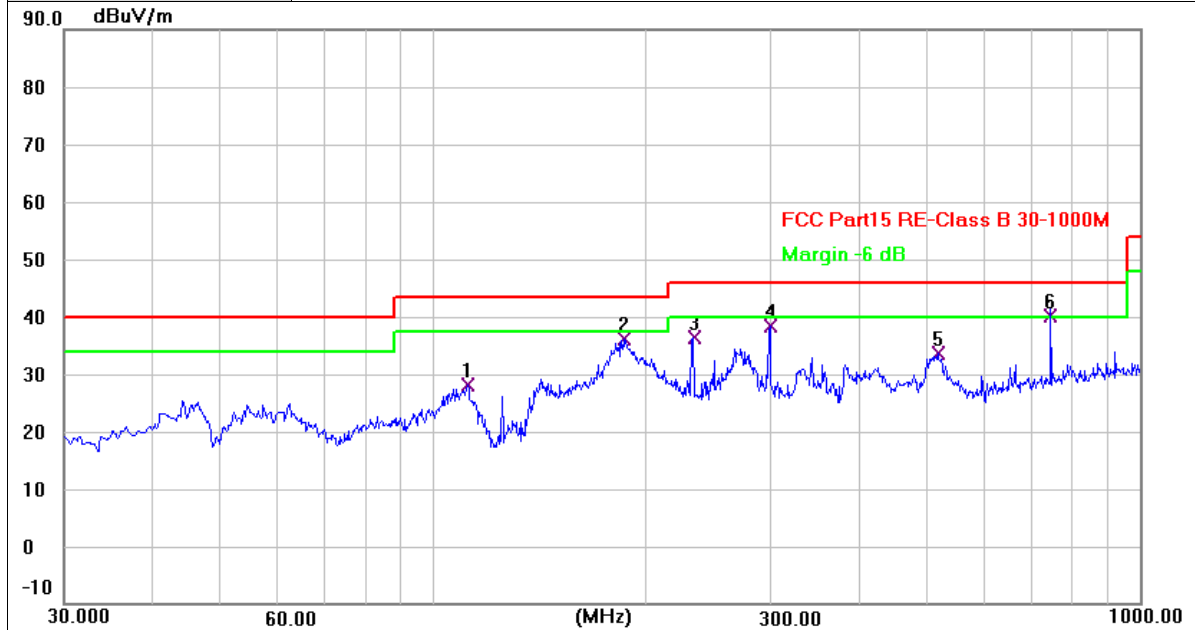
From 9 kHz to 30 MHz: The conclusion is PASS.

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



## 30MHz-1GHz

|            |                              |
|------------|------------------------------|
| Ant. No.   | Ant 1                        |
| Ant. Pol.  | Horizontal                   |
| Test Mode: | TX 802.11b Mode 2412MHz      |
| Remark:    | Only worse case is reported. |



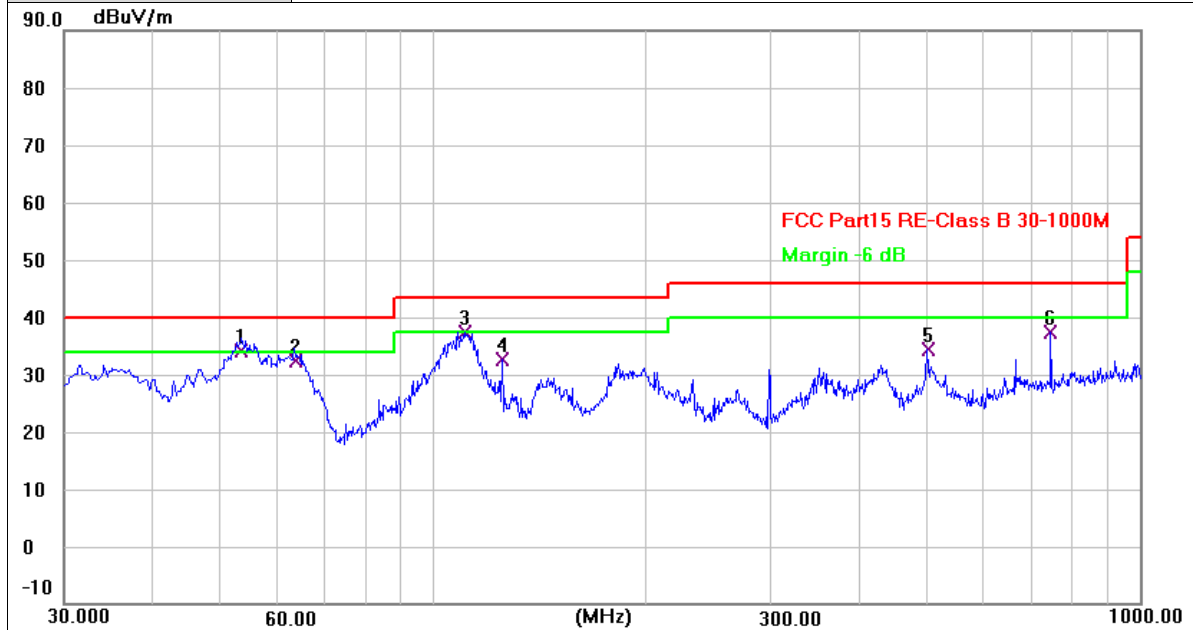
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 111.8033        | 44.27          | -16.26        | 28.01          | 43.50          | -15.49      | QP       |
| 2   | 185.8466        | 53.56          | -17.35        | 36.21          | 43.50          | -7.29       | QP       |
| 3   | 233.3767        | 51.29          | -14.99        | 36.30          | 46.00          | -9.70       | QP       |
| 4   | 299.9833        | 51.78          | -13.47        | 38.31          | 46.00          | -7.69       | QP       |
| 5   | 517.9099        | 42.61          | -8.97         | 33.64          | 46.00          | -12.36      | QP       |
| 6 * | 750.0633        | 44.98          | -4.87         | 40.11          | 46.00          | -5.89       | QP       |

## Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
2. Margin value = Level - Limit value



|            |                              |
|------------|------------------------------|
| Ant. No.   | Ant 1                        |
| Ant. Pol.  | Vertical                     |
| Test Mode: | TX 802.11b Mode 2412MHz      |
| Remark:    | Only worse case is reported. |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 53.6033         | 48.44          | -14.19        | 34.25          | 40.00          | -5.75       | QP       |
| 2   | 63.6267         | 48.30          | -15.89        | 32.41          | 40.00          | -7.59       | QP       |
| 3   | 110.8333        | 53.52          | -16.13        | 37.39          | 43.50          | -6.11       | QP       |
| 4   | 125.0600        | 51.25          | -18.54        | 32.71          | 43.50          | -10.79      | QP       |
| 5   | 500.1267        | 43.63          | -9.29         | 34.34          | 46.00          | -11.66      | QP       |
| 6   | 750.0633        | 42.27          | -4.87         | 37.40          | 46.00          | -8.60       | QP       |

## Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



## Above 1GHz

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1                                                                        |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11b Mode 2412MHz                                                      |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4823.969                                                                     | 41.28          | 2.11          | 43.39          | 54.00          | -10.61      | AVG      |
| 2                                                                                                                                 | 4824.005                                                                     | 46.29          | 2.11          | 48.40          | 74.00          | -25.60      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              |                |               |                |                |             |          |     |                 |                |               |                |                |             |          |     |          |       |      |       |       |        |     |   |          |       |      |       |       |        |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|----------|-------|------|-------|-------|--------|-----|---|----------|-------|------|-------|-------|--------|------|
| Ant. No.                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ant 1                                                                        |                |               |                |                |             |          |     |                 |                |               |                |                |             |          |     |          |       |      |       |       |        |     |   |          |       |      |       |       |        |      |
| Ant. Pol.                                                                                                                                                                                                                                                                                                                                                                                                                                   | Vertical                                                                     |                |               |                |                |             |          |     |                 |                |               |                |                |             |          |     |          |       |      |       |       |        |     |   |          |       |      |       |       |        |      |
| Test Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                  | TX 802.11b Mode 2412MHz                                                      |                |               |                |                |             |          |     |                 |                |               |                |                |             |          |     |          |       |      |       |       |        |     |   |          |       |      |       |       |        |      |
| Remark:                                                                                                                                                                                                                                                                                                                                                                                                                                     | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |     |                 |                |               |                |                |             |          |     |          |       |      |       |       |        |     |   |          |       |      |       |       |        |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              |                |               |                |                |             |          |     |                 |                |               |                |                |             |          |     |          |       |      |       |       |        |     |   |          |       |      |       |       |        |      |
| <table><tr><td>No.</td><td>Frequency (MHz)</td><td>Reading (dBUV)</td><td>Factor (dB/m)</td><td>Level (dBUV/m)</td><td>Limit (dBUV/m)</td><td>Margin (dB)</td><td>Detector</td></tr><tr><td>1 *</td><td>4823.984</td><td>38.83</td><td>2.11</td><td>40.94</td><td>54.00</td><td>-13.06</td><td>AVG</td></tr><tr><td>2</td><td>4824.024</td><td>43.45</td><td>2.11</td><td>45.56</td><td>74.00</td><td>-28.44</td><td>peak</td></tr></table> |                                                                              |                |               |                |                |             |          | No. | Frequency (MHz) | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | 1 * | 4823.984 | 38.83 | 2.11 | 40.94 | 54.00 | -13.06 | AVG | 2 | 4824.024 | 43.45 | 2.11 | 45.56 | 74.00 | -28.44 | peak |
| No.                                                                                                                                                                                                                                                                                                                                                                                                                                         | Frequency (MHz)                                                              | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |     |                 |                |               |                |                |             |          |     |          |       |      |       |       |        |     |   |          |       |      |       |       |        |      |
| 1 *                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4823.984                                                                     | 38.83          | 2.11          | 40.94          | 54.00          | -13.06      | AVG      |     |                 |                |               |                |                |             |          |     |          |       |      |       |       |        |     |   |          |       |      |       |       |        |      |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4824.024                                                                     | 43.45          | 2.11          | 45.56          | 74.00          | -28.44      | peak     |     |                 |                |               |                |                |             |          |     |          |       |      |       |       |        |     |   |          |       |      |       |       |        |      |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value                                                                                                                                                                                                                                                                                                           |                                                                              |                |               |                |                |             |          |     |                 |                |               |                |                |             |          |     |          |       |      |       |       |        |     |   |          |       |      |       |       |        |      |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1                                                                        |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11b Mode 2437MHz                                                      |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1                                                                                                                                 | 4873.977                                                                     | 45.59          | 2.18          | 47.77          | 74.00          | -26.23      | peak     |
| 2 *                                                                                                                               | 4873.987                                                                     | 39.87          | 2.18          | 42.05          | 54.00          | -11.95      | AVG      |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1                                                                        |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11b Mode 2437MHz                                                      |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4873.973                                                                     | 39.35          | 2.18          | 41.53          | 54.00          | -12.47      | AVG      |
| 2                                                                                                                                 | 4874.185                                                                     | 43.27          | 2.18          | 45.45          | 74.00          | -28.55      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1                                                                        |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11b Mode 2462MHz                                                      |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4923.949                                                                     | 42.52          | 2.26          | 44.78          | 54.00          | -9.22       | AVG      |
| 2                                                                                                                                 | 4923.972                                                                     | 47.39          | 2.26          | 49.65          | 74.00          | -24.35      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1                                                                        |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11b Mode 2462MHz                                                      |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4924.002                                                                     | 39.39          | 2.26          | 41.65          | 54.00          | -12.35      | AVG      |
| 2                                                                                                                                 | 4924.115                                                                     | 43.30          | 2.26          | 45.56          | 74.00          | -28.44      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1                                                                        |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11g Mode 2412MHz                                                      |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4824.280                                                                     | 30.79          | 2.11          | 32.90          | 54.00          | -21.10      | AVG      |
| 2                                                                                                                                 | 4824.839                                                                     | 46.04          | 2.11          | 48.15          | 74.00          | -25.85      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1                                                                        |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11g Mode 2412MHz                                                      |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1                                                                                                                                 | 4823.565                                                                     | 41.34          | 2.11          | 43.45          | 74.00          | -30.55      | peak     |
| 2 *                                                                                                                               | 4824.115                                                                     | 29.37          | 2.11          | 31.48          | 54.00          | -22.52      | AVG      |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1                                                                        |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11g Mode 2437MHz                                                      |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4873.909                                                                     | 24.06          | 2.18          | 26.24          | 54.00          | -27.76      | AVG      |
| 2                                                                                                                                 | 4874.988                                                                     | 39.35          | 2.18          | 41.53          | 74.00          | -32.47      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1                                                                        |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11g Mode 2437MHz                                                      |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
| 1                                                                                                                                 | 4874.276                                                                     | 39.86          | 2.18          | 42.04          | 74.00          | -31.96      | peak     |
| 2 *                                                                                                                               | 4874.352                                                                     | 28.35          | 2.18          | 30.53          | 54.00          | -23.47      | AVG      |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1                                                                        |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11g Mode 2462MHz                                                      |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
| 1                                                                                                                                 | 4924.581                                                                     | 38.49          | 2.26          | 40.75          | 74.00          | -33.25      | peak     |
| 2 *                                                                                                                               | 4924.756                                                                     | 23.00          | 2.26          | 25.26          | 54.00          | -28.74      | AVG      |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1                                                                        |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11g Mode 2462MHz                                                      |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4873.685                                                                     | 26.76          | 2.18          | 28.94          | 54.00          | -25.06      | AVG      |
| 2                                                                                                                                 | 4873.933                                                                     | 37.26          | 2.18          | 39.44          | 74.00          | -34.56      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11n(HT20) Mode 2412MHz                                                |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1                                                                                                                                 | 4823.807                                                                     | 41.62          | 2.11          | 43.73          | 74.00          | -30.27      | peak     |
| 2 *                                                                                                                               | 4824.039                                                                     | 31.67          | 2.11          | 33.78          | 54.00          | -20.22      | AVG      |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
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| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11n(HT20) Mode 2412MHz                                                |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4824.026                                                                     | 29.92          | 2.11          | 32.03          | 54.00          | -21.97      | AVG      |
| 2                                                                                                                                 | 4824.290                                                                     | 38.89          | 2.11          | 41.00          | 74.00          | -33.00      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11n(HT20) Mode 2437MHz                                                |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1                                                                                                                                 | 4873.169                                                                     | 44.70          | 2.18          | 46.88          | 74.00          | -27.12      | peak     |
| 2 *                                                                                                                               | 4873.919                                                                     | 31.41          | 2.18          | 33.59          | 54.00          | -20.41      | AVG      |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11n(HT20) Mode 2437MHz                                                |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1                                                                                                                                 | 4873.745                                                                     | 38.14          | 2.18          | 40.32          | 74.00          | -33.68      | peak     |
| 2 *                                                                                                                               | 4874.063                                                                     | 28.82          | 2.18          | 31.00          | 54.00          | -23.00      | AVG      |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11n(HT20) Mode 2462MHz                                                |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4924.042                                                                     | 30.04          | 2.26          | 32.30          | 54.00          | -21.70      | AVG      |
| 2                                                                                                                                 | 4924.607                                                                     | 43.21          | 2.26          | 45.47          | 74.00          | -28.53      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

| Ant. No.                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |     |                 |                |               |                |                |             |          |   |          |       |      |       |       |        |      |     |          |       |      |       |       |        |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|---|----------|-------|------|-------|-------|--------|------|-----|----------|-------|------|-------|-------|--------|-----|
| Ant. Pol.                                                                                                                                                                                                                                                                                                                                                                                                                                   | Vertical                                                                     |                |               |                |                |             |          |     |                 |                |               |                |                |             |          |   |          |       |      |       |       |        |      |     |          |       |      |       |       |        |     |
| Test Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                  | TX 802.11n(HT20) Mode 2462MHz                                                |                |               |                |                |             |          |     |                 |                |               |                |                |             |          |   |          |       |      |       |       |        |      |     |          |       |      |       |       |        |     |
| Remark:                                                                                                                                                                                                                                                                                                                                                                                                                                     | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |     |                 |                |               |                |                |             |          |   |          |       |      |       |       |        |      |     |          |       |      |       |       |        |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              |                |               |                |                |             |          |     |                 |                |               |                |                |             |          |   |          |       |      |       |       |        |      |     |          |       |      |       |       |        |     |
| <table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>4923.918</td><td>38.02</td><td>2.26</td><td>40.28</td><td>74.00</td><td>-33.72</td><td>peak</td></tr><tr><td>2 *</td><td>4923.919</td><td>27.71</td><td>2.26</td><td>29.97</td><td>54.00</td><td>-24.03</td><td>AVG</td></tr></table> |                                                                              |                |               |                |                |             |          | No. | Frequency (MHz) | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | 1 | 4923.918 | 38.02 | 2.26 | 40.28 | 74.00 | -33.72 | peak | 2 * | 4923.919 | 27.71 | 2.26 | 29.97 | 54.00 | -24.03 | AVG |
| No.                                                                                                                                                                                                                                                                                                                                                                                                                                         | Frequency (MHz)                                                              | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |     |                 |                |               |                |                |             |          |   |          |       |      |       |       |        |      |     |          |       |      |       |       |        |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4923.918                                                                     | 38.02          | 2.26          | 40.28          | 74.00          | -33.72      | peak     |     |                 |                |               |                |                |             |          |   |          |       |      |       |       |        |      |     |          |       |      |       |       |        |     |
| 2 *                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4923.919                                                                     | 27.71          | 2.26          | 29.97          | 54.00          | -24.03      | AVG      |     |                 |                |               |                |                |             |          |   |          |       |      |       |       |        |      |     |          |       |      |       |       |        |     |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value                                                                                                                                                                                                                                                                                                           |                                                                              |                |               |                |                |             |          |     |                 |                |               |                |                |             |          |   |          |       |      |       |       |        |      |     |          |       |      |       |       |        |     |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11n(HT40) Mode 2422MHz                                                |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
| 1                                                                                                                                 | 4843.853                                                                     | 41.52          | 2.13          | 43.65          | 74.00          | -30.35      | peak     |
| 2 *                                                                                                                               | 4844.021                                                                     | 30.30          | 2.13          | 32.43          | 54.00          | -21.57      | AVG      |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
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| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11n(HT40) Mode 2422MHz                                                |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1                                                                                                                                 | 4843.892                                                                     | 40.08          | 2.13          | 42.21          | 74.00          | -31.79      | peak     |
| 2 *                                                                                                                               | 4844.056                                                                     | 31.72          | 2.13          | 33.85          | 54.00          | -20.15      | AVG      |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11n(HT40) Mode 2437MHz                                                |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4873.876                                                                     | 27.54          | 2.18          | 29.72          | 54.00          | -24.28      | AVG      |
| 2                                                                                                                                 | 4874.133                                                                     | 40.71          | 2.18          | 42.89          | 74.00          | -31.11      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11n(HT40) Mode 2437MHz                                                |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4874.070                                                                     | 29.09          | 2.18          | 31.27          | 54.00          | -22.73      | AVG      |
| 2                                                                                                                                 | 4874.185                                                                     | 37.99          | 2.18          | 40.17          | 74.00          | -33.83      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11n(HT40) Mode 2452MHz                                                |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4903.982                                                                     | 28.63          | 2.22          | 30.85          | 54.00          | -23.15      | AVG      |
| 2                                                                                                                                 | 4904.092                                                                     | 40.58          | 2.22          | 42.80          | 74.00          | -31.20      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11n(HT40) Mode 2452MHz                                                |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4903.967                                                                     | 31.92          | 2.22          | 34.14          | 54.00          | -19.86      | AVG      |
| 2                                                                                                                                 | 4904.000                                                                     | 42.56          | 2.22          | 44.78          | 74.00          | -29.22      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11ax(HE20) Mode 2412MHz 242/61                                        |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1                                                                                                                                 | 4823.820                                                                     | 42.26          | 2.11          | 44.37          | 74.00          | -29.63      | peak     |
| 2 *                                                                                                                               | 4824.000                                                                     | 32.65          | 2.11          | 34.76          | 54.00          | -19.24      | AVG      |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11ax(HE20) Mode 2412MHz 242/61                                        |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4823.999                                                                     | 34.94          | 2.11          | 37.05          | 54.00          | -16.95      | AVG      |
| 2                                                                                                                                 | 4824.145                                                                     | 43.97          | 2.11          | 46.08          | 74.00          | -27.92      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11ax(HE20) Mode 2437MHz 242/61                                        |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4874.055                                                                     | 28.68          | 2.18          | 30.86          | 54.00          | -23.14      | AVG      |
| 2                                                                                                                                 | 4874.075                                                                     | 40.23          | 2.18          | 42.41          | 74.00          | -31.59      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11ax(HE20) Mode 2437MHz 242/61                                        |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
| 1                                                                                                                                 | 4873.735                                                                     | 42.23          | 2.18          | 44.41          | 74.00          | -29.59      | peak     |
| 2 *                                                                                                                               | 4873.997                                                                     | 31.58          | 2.18          | 33.76          | 54.00          | -20.24      | AVG      |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11ax(HE20) Mode 2462MHz 242/61                                        |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1                                                                                                                                 | 4923.289                                                                     | 39.39          | 2.25          | 41.64          | 74.00          | -32.36      | peak     |
| 2 *                                                                                                                               | 4924.113                                                                     | 27.53          | 2.26          | 29.79          | 54.00          | -24.21      | AVG      |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11ax(HE20) Mode 2462MHz 242/61                                        |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBUV) | Factor (dB/m) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector |
| 1                                                                                                                                 | 4923.950                                                                     | 41.80          | 2.26          | 44.06          | 74.00          | -29.94      | peak     |
| 2 *                                                                                                                               | 4924.051                                                                     | 30.11          | 2.26          | 32.37          | 54.00          | -21.63      | AVG      |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11ax(HE40) Mode 2422MHz 484/65                                        |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4843.939                                                                     | 31.29          | 2.13          | 33.42          | 54.00          | -20.58      | AVG      |
| 2                                                                                                                                 | 4844.201                                                                     | 41.08          | 2.13          | 43.21          | 74.00          | -30.79      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11ax(HE40) Mode 2422MHz 484/65                                        |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4843.983                                                                     | 34.93          | 2.13          | 37.06          | 54.00          | -16.94      | AVG      |
| 2                                                                                                                                 | 4844.272                                                                     | 44.09          | 2.13          | 46.22          | 74.00          | -27.78      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |



|            |                                                                              |
|------------|------------------------------------------------------------------------------|
| Ant. No.   | Ant 1 + Ant 2                                                                |
| Ant. Pol.  | Horizontal                                                                   |
| Test Mode: | TX 802.11ax(HE40) Mode 2437MHz 484/65                                        |
| Remark:    | No report for the emission which more than 20 dB below the prescribed limit. |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 4873.839        | 40.59          | 2.18          | 42.77          | 74.00          | -31.23      | peak     |
| 2 * | 4874.003        | 29.16          | 2.18          | 31.34          | 54.00          | -22.66      | AVG      |

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

|            |                                                                              |
|------------|------------------------------------------------------------------------------|
| Ant. No.   | Ant 1 + Ant 2                                                                |
| Ant. Pol.  | Vertical                                                                     |
| Test Mode: | TX 802.11ax(HE40) Mode 2437MHz 484/65                                        |
| Remark:    | No report for the emission which more than 20 dB below the prescribed limit. |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 4873.937        | 32.58          | 2.18          | 34.76          | 54.00          | -19.24      | AVG      |
| 2   | 4874.403        | 42.98          | 2.18          | 45.16          | 74.00          | -28.84      | peak     |

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Horizontal                                                                   |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11ax(HE40) Mode 2452MHz 484/65                                        |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1                                                                                                                                 | 4903.777                                                                     | 40.84          | 2.22          | 43.06          | 74.00          | -30.94      | peak     |
| 2 *                                                                                                                               | 4903.963                                                                     | 29.86          | 2.22          | 32.08          | 54.00          | -21.92      | AVG      |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------|---------------|----------------|----------------|-------------|----------|
| Ant. No.                                                                                                                          | Ant 1 + Ant 2                                                                |                |               |                |                |             |          |
| Ant. Pol.                                                                                                                         | Vertical                                                                     |                |               |                |                |             |          |
| Test Mode:                                                                                                                        | TX 802.11ax(HE40) Mode 2452MHz 484/65                                        |                |               |                |                |             |          |
| Remark:                                                                                                                           | No report for the emission which more than 20 dB below the prescribed limit. |                |               |                |                |             |          |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| No.                                                                                                                               | Frequency (MHz)                                                              | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 *                                                                                                                               | 4904.041                                                                     | 31.46          | 2.22          | 33.68          | 54.00          | -20.32      | AVG      |
| 2                                                                                                                                 | 4904.304                                                                     | 42.57          | 2.22          | 44.79          | 74.00          | -29.21      | peak     |
|                                                                                                                                   |                                                                              |                |               |                |                |             |          |
| Remarks:<br>1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor<br>2.Margin value = Level -Limit value |                                                                              |                |               |                |                |             |          |

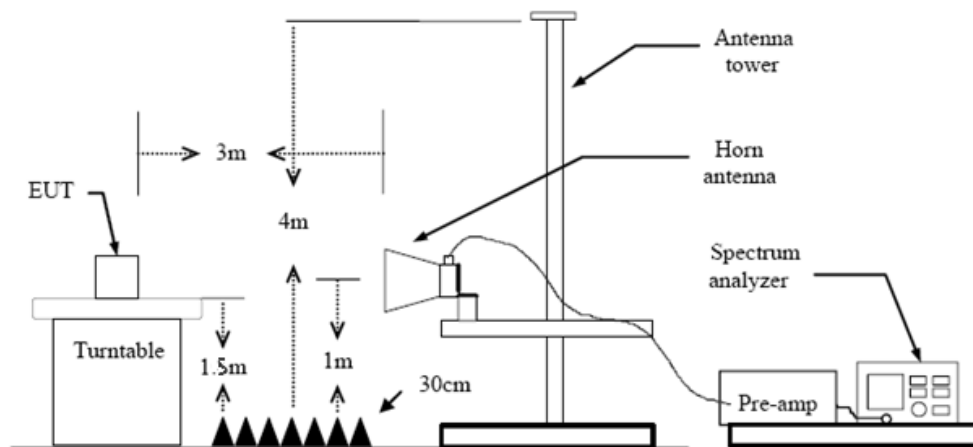
### 3.3. Band Edge Emissions (Radiated)

#### Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)

| Restricted Frequency Band<br>(MHz) | (dBμV/m) (at 3m) |         |
|------------------------------------|------------------|---------|
|                                    | Peak             | Average |
| 2310 ~ 2390                        | 74               | 54      |
| 2483.5 ~ 2500                      | 74               | 54      |

#### Test Configuration



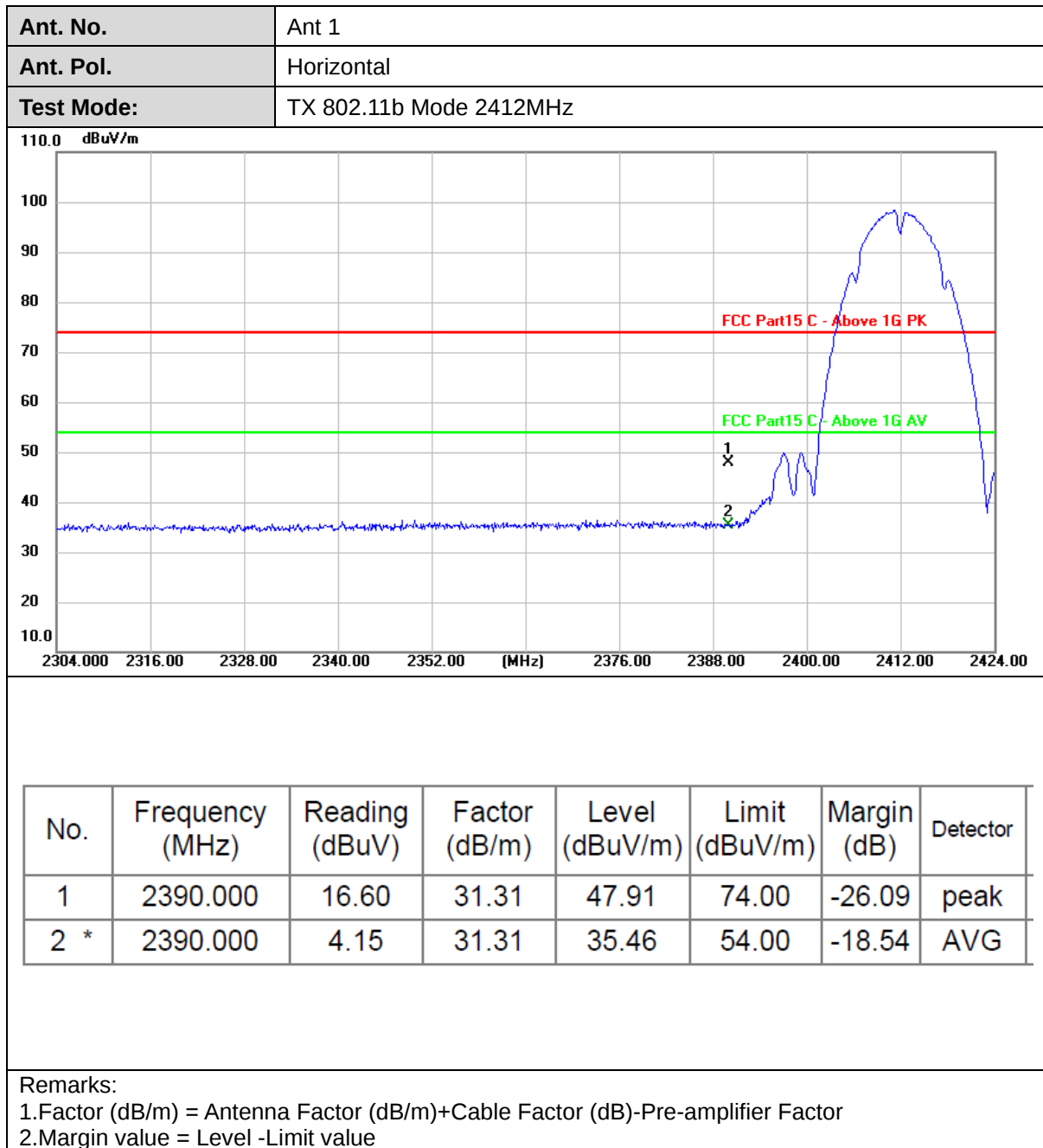
#### Test Procedure

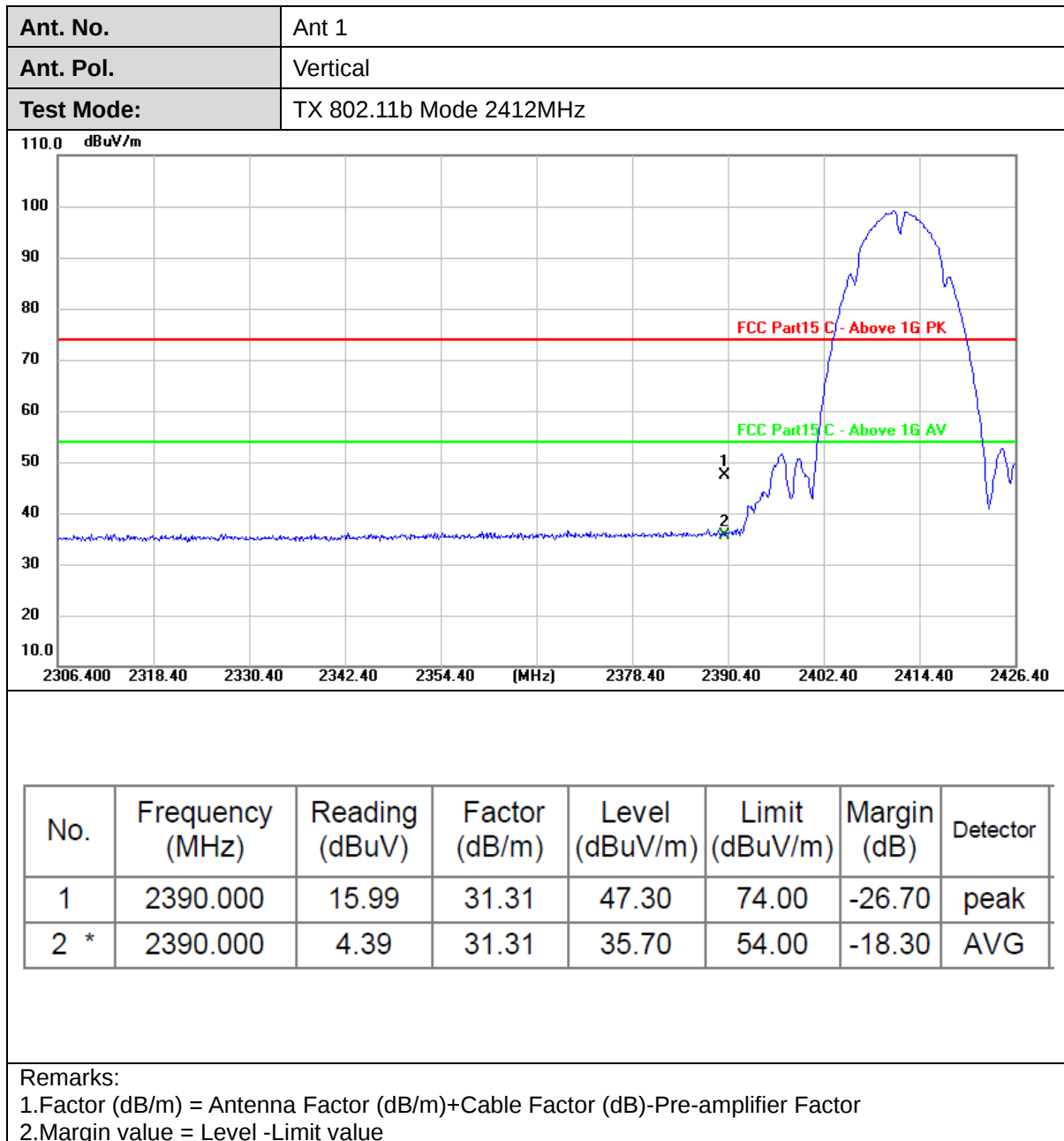
1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:  
RBW=1MHz, VBW=3MHz Peak detector for Peak value.  
RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

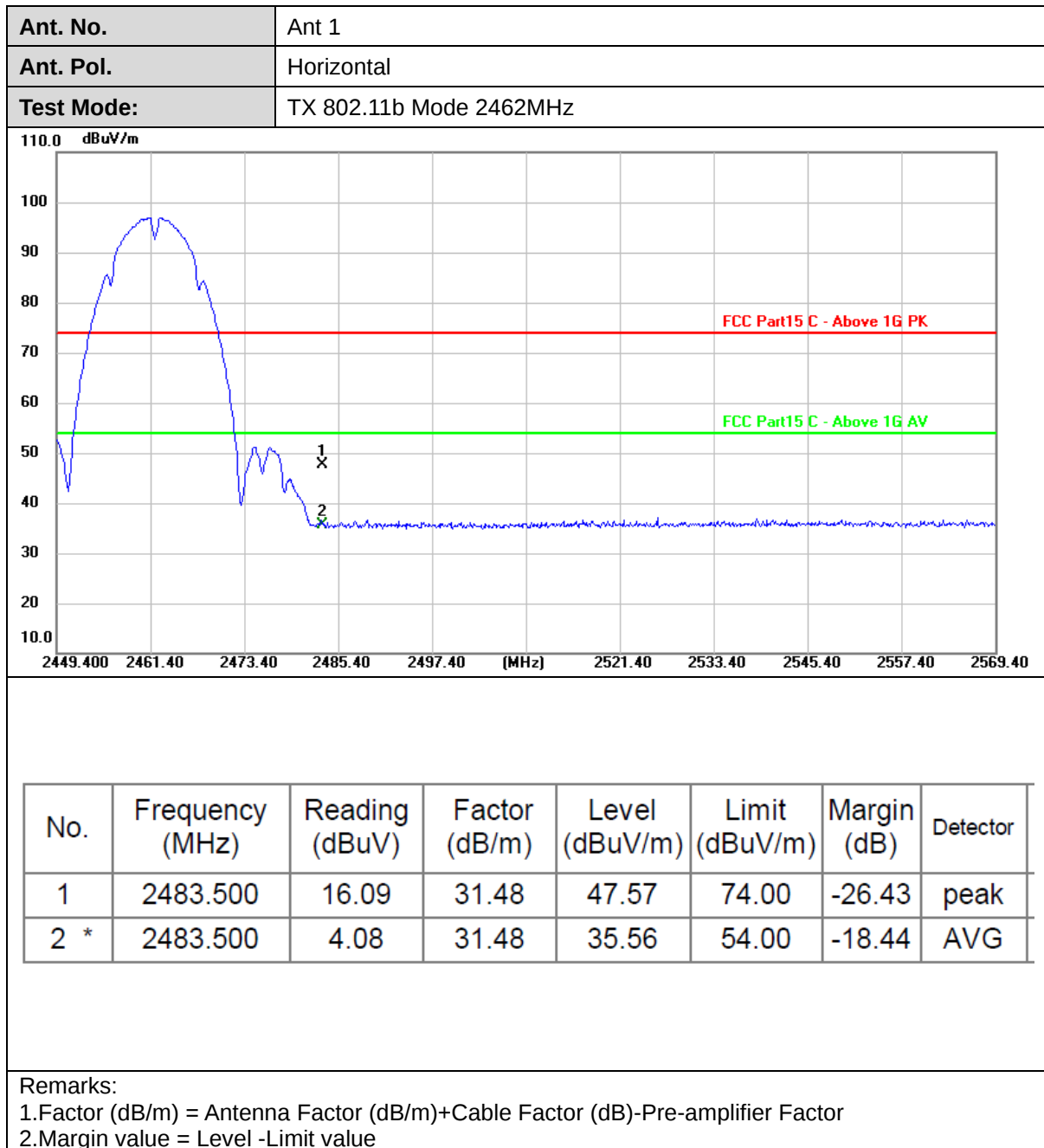
Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.8 Duty Cycle.

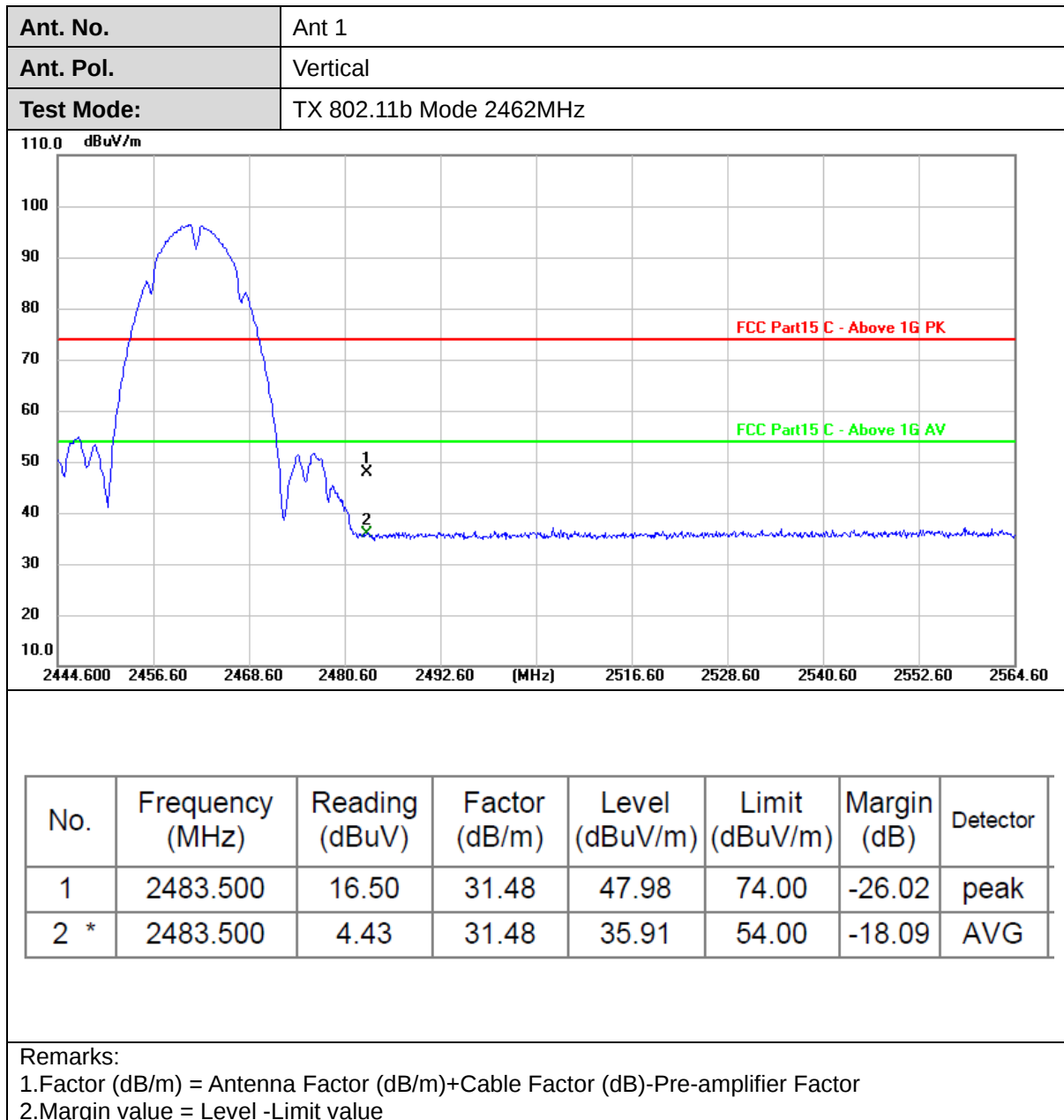
#### Test Mode

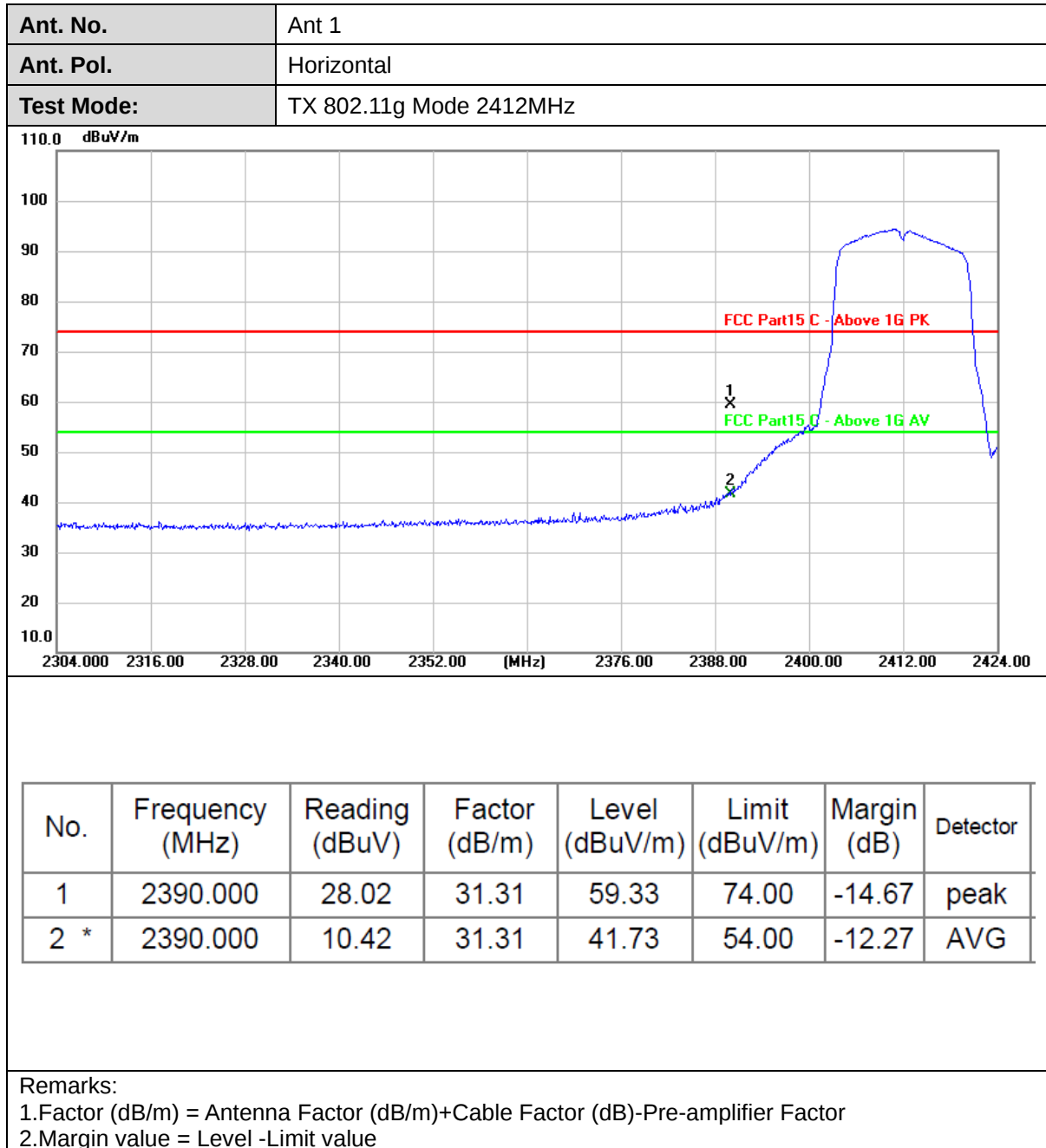
Please refer to the clause 2.4.

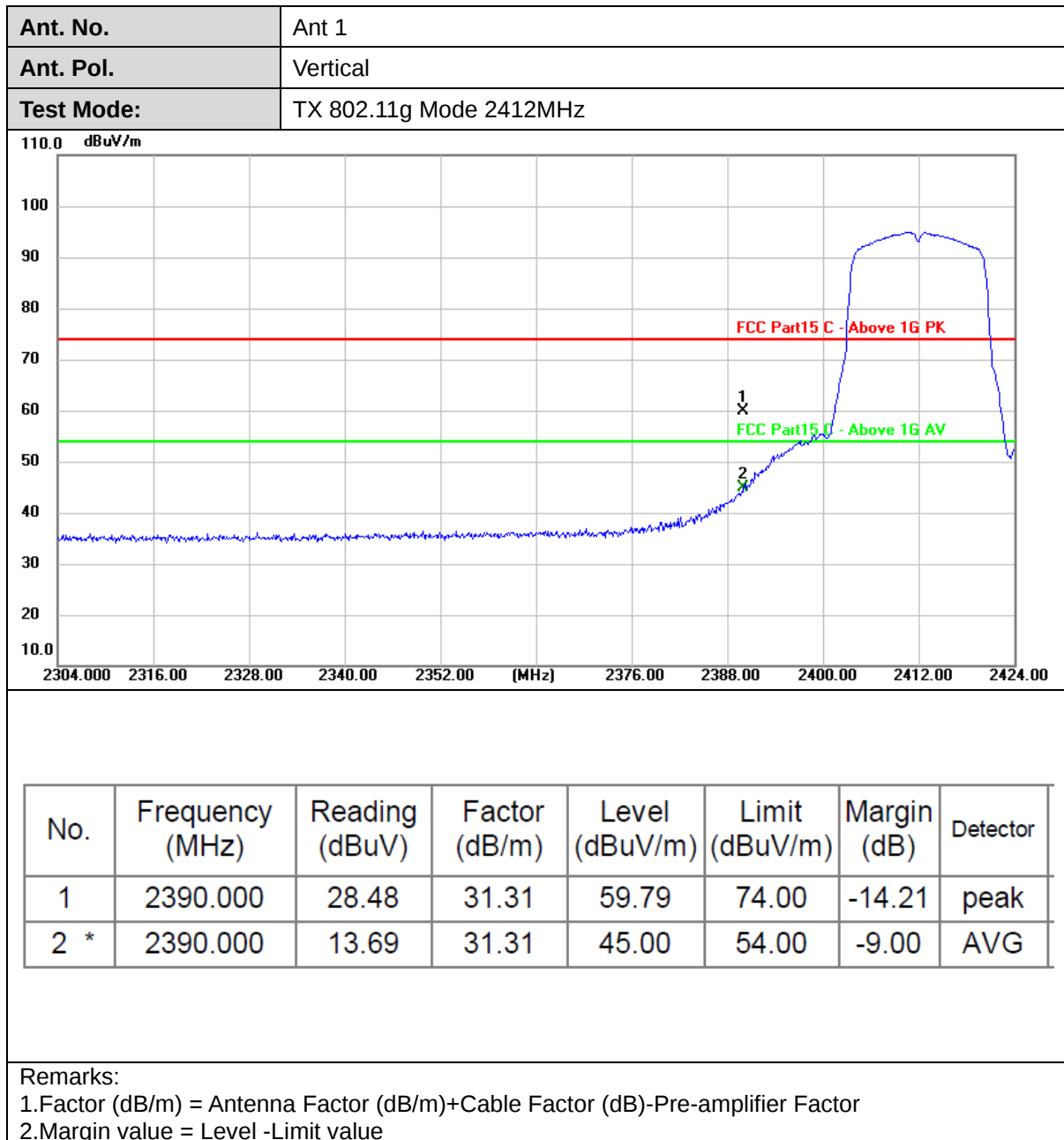
**Test Result**

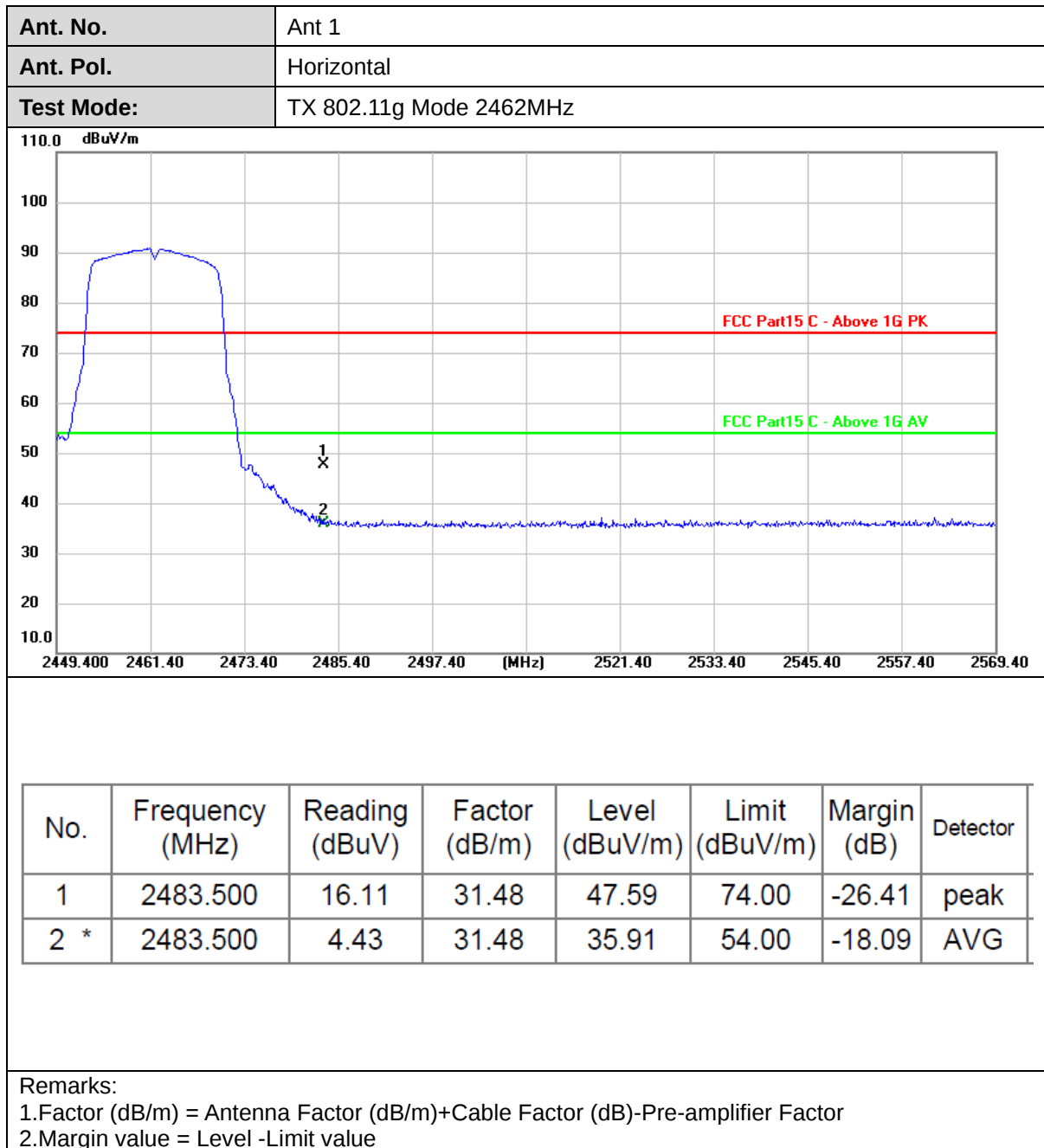


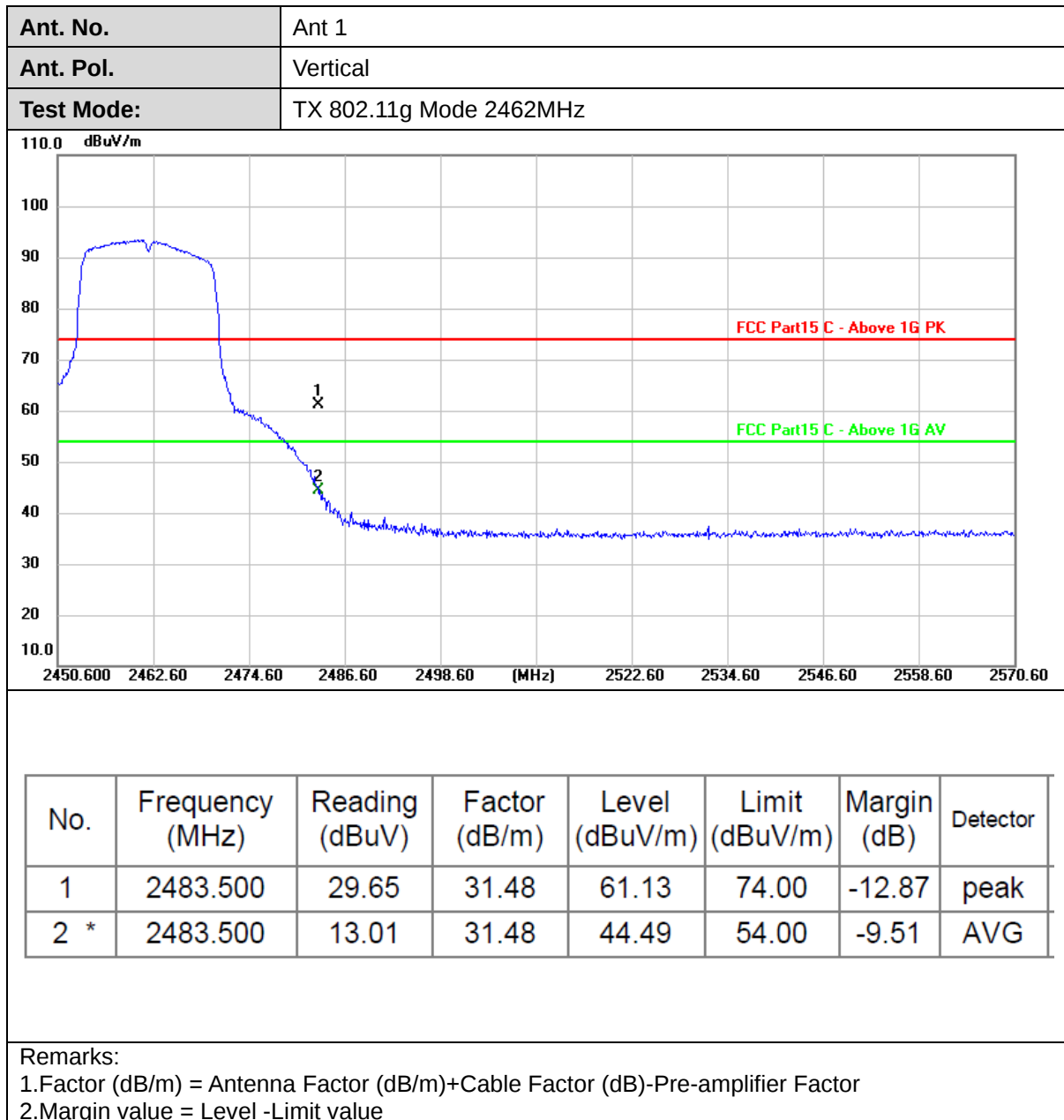


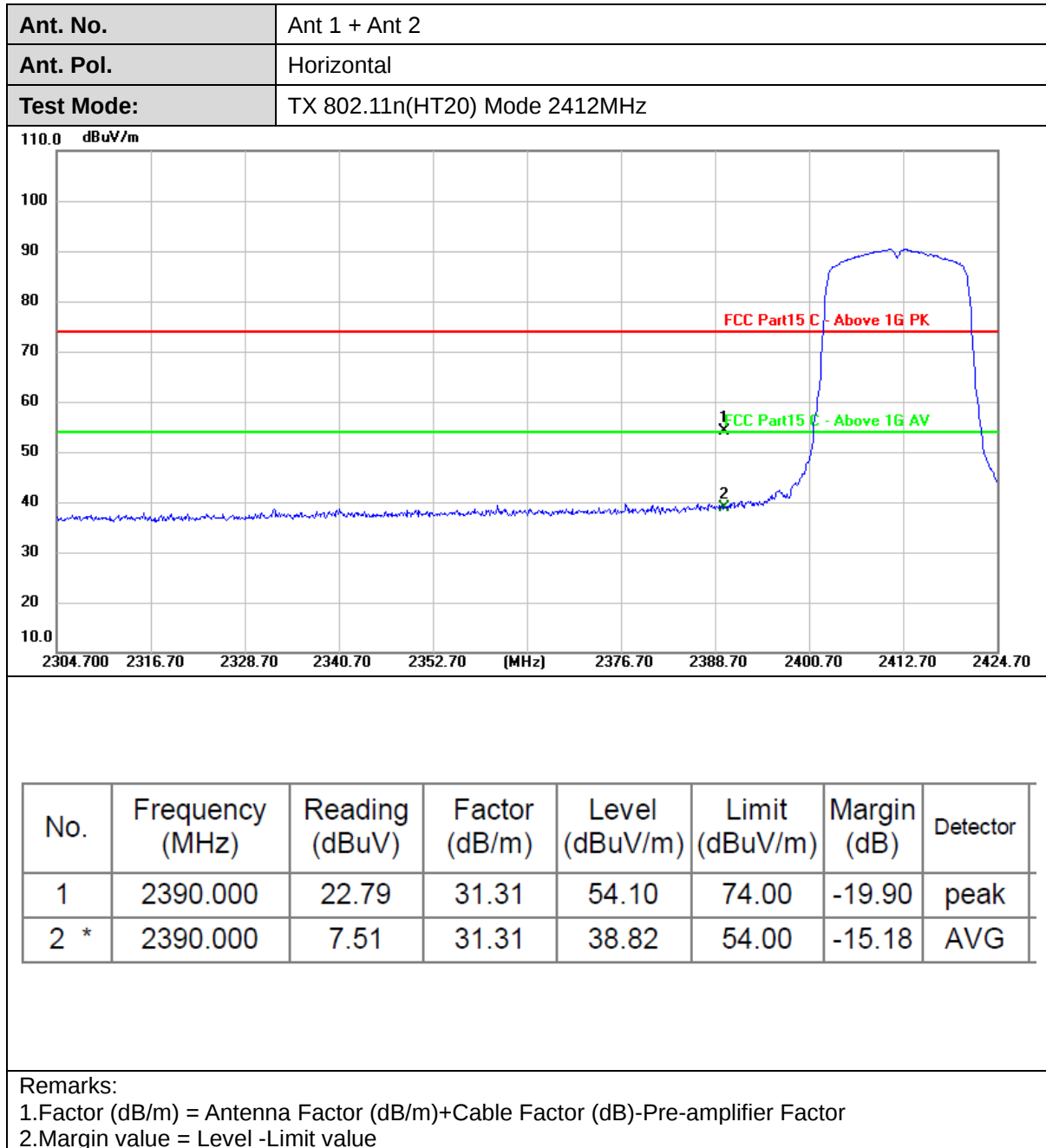


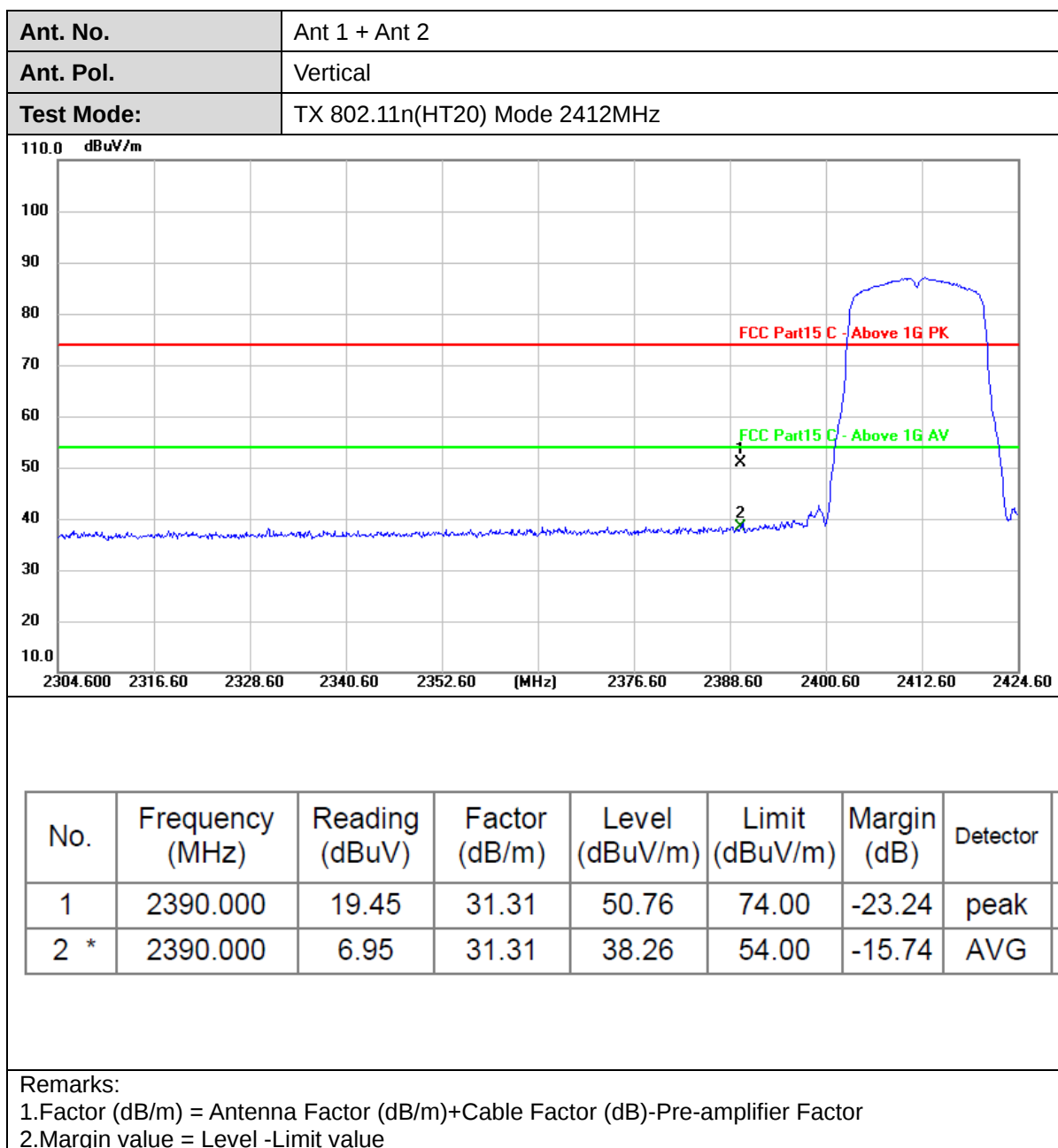


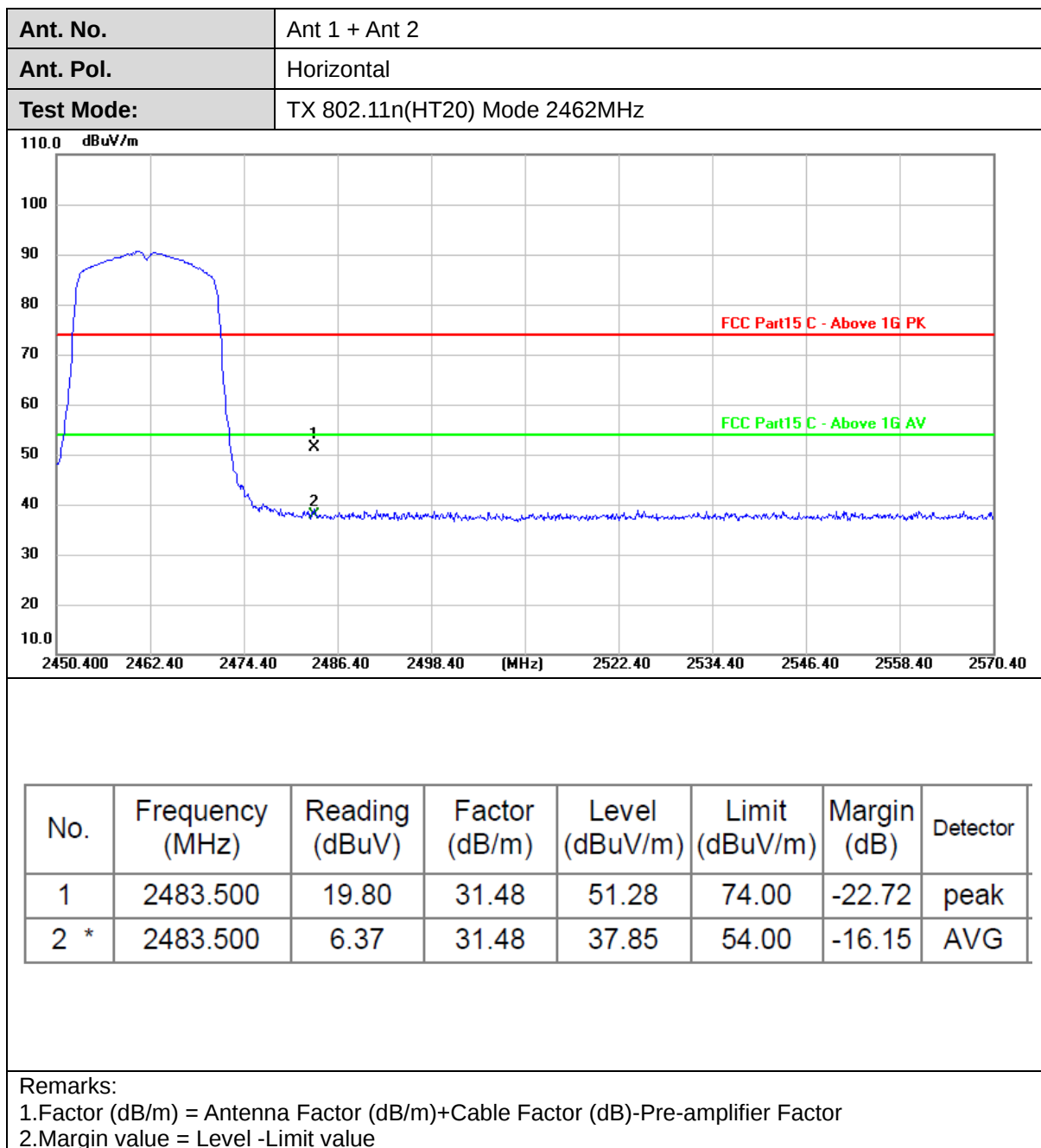


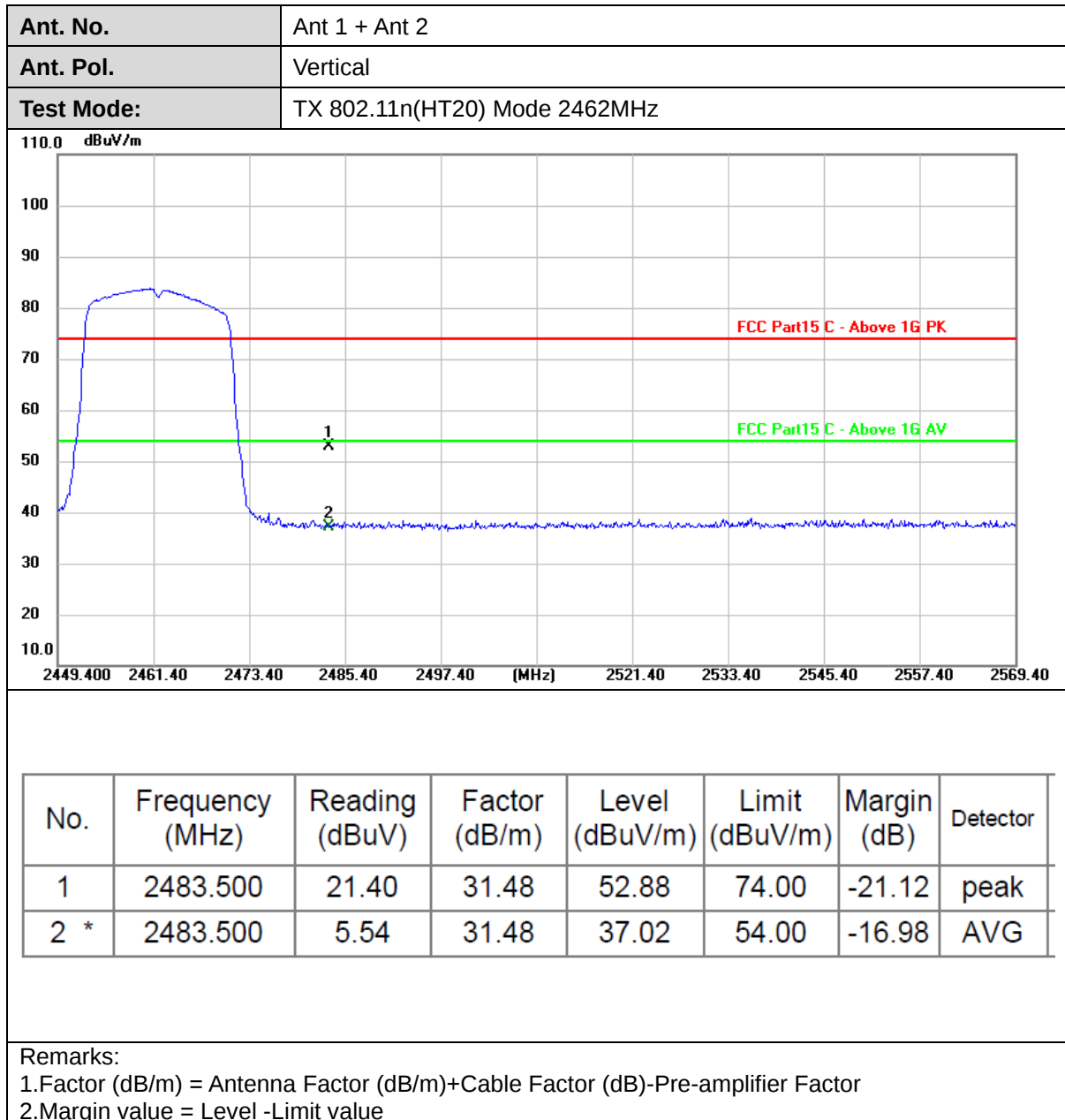


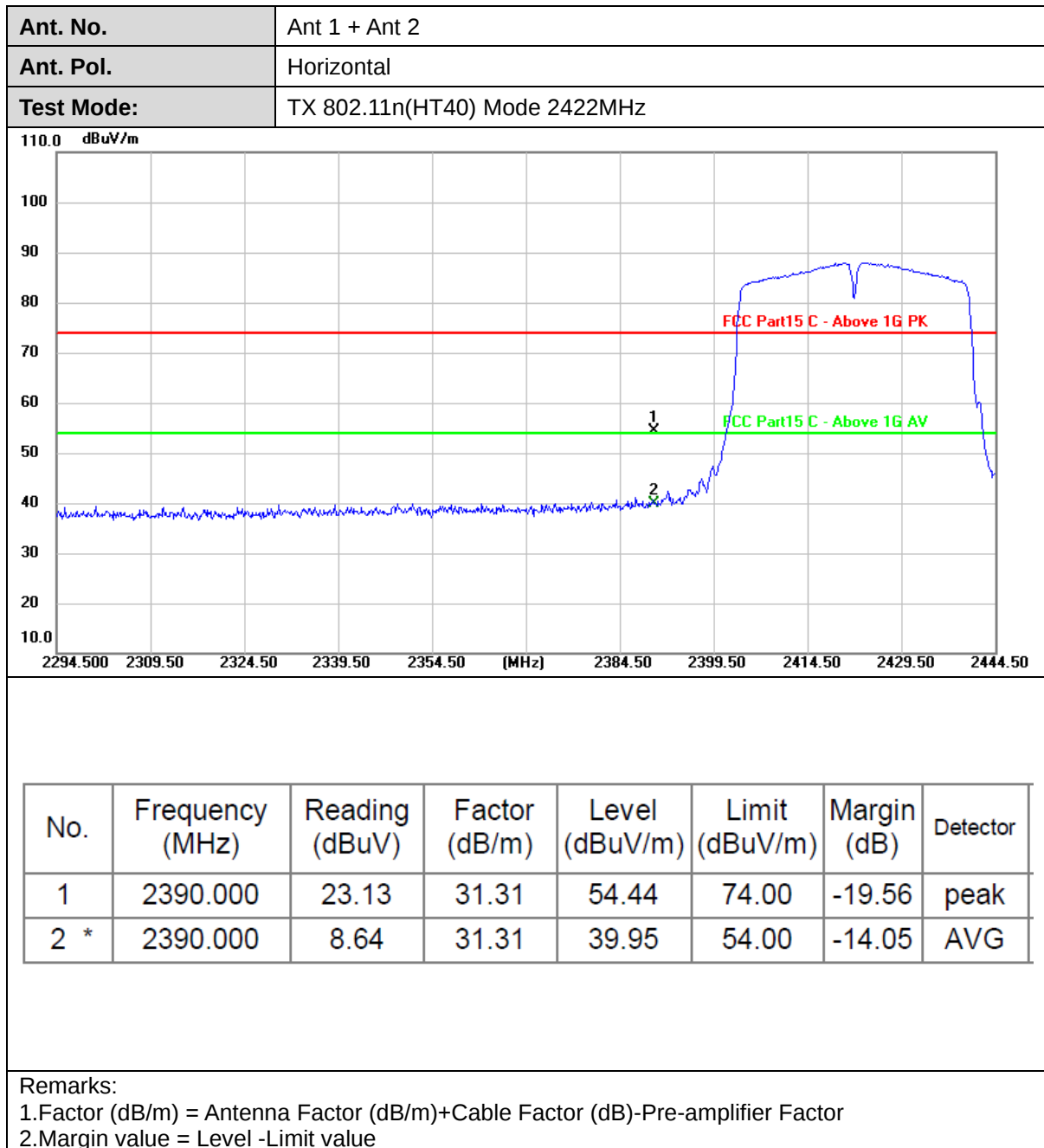


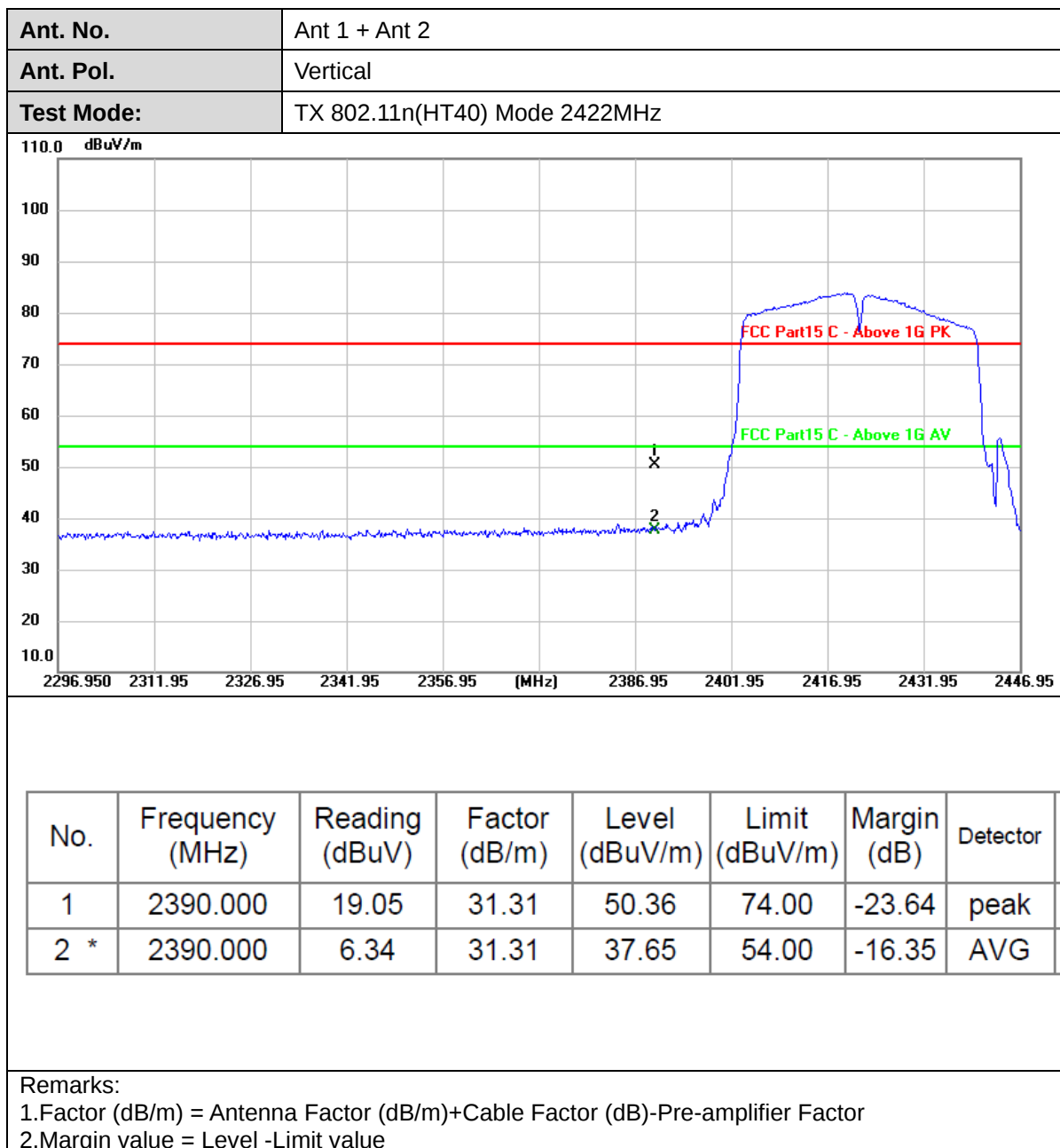


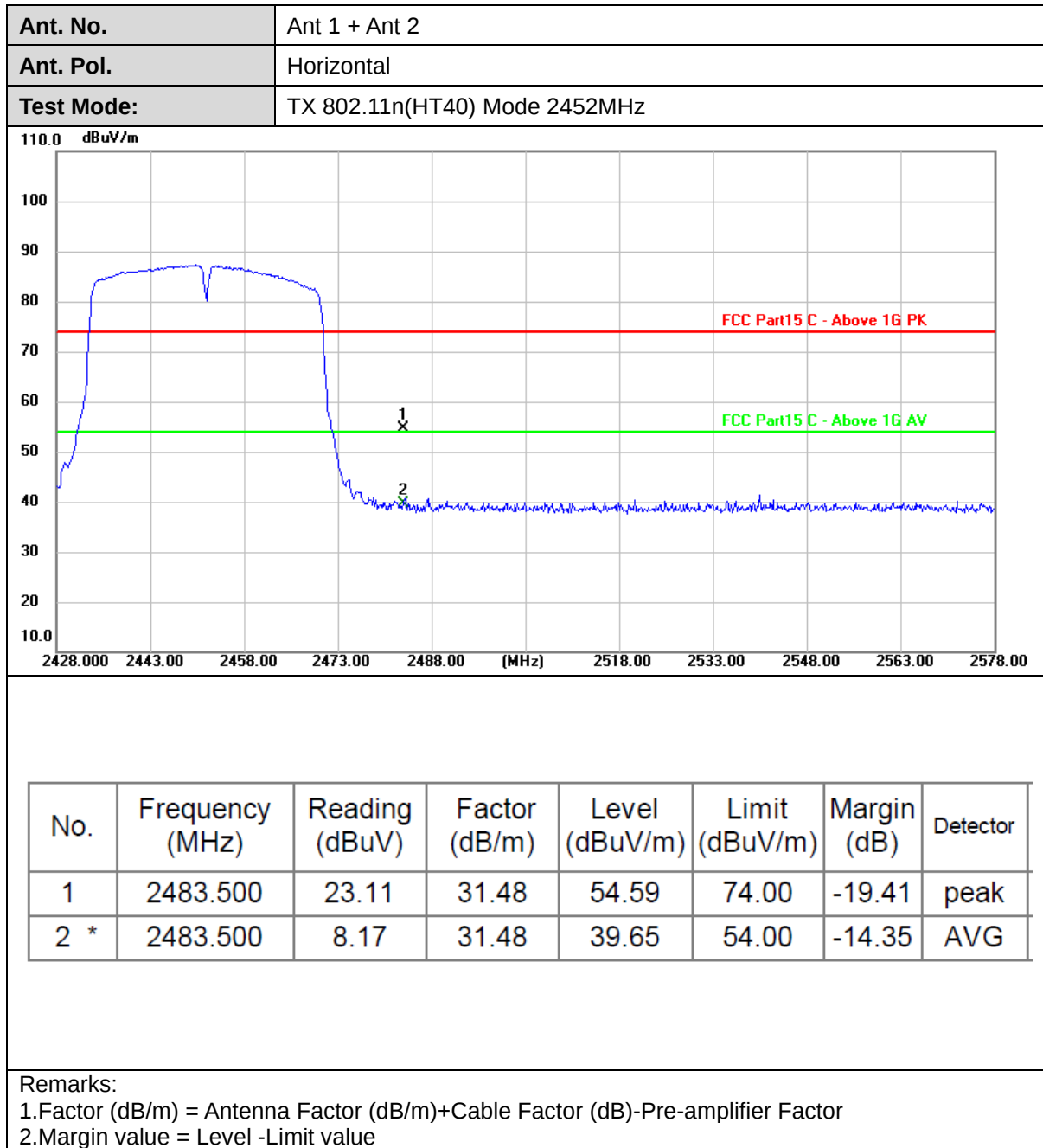


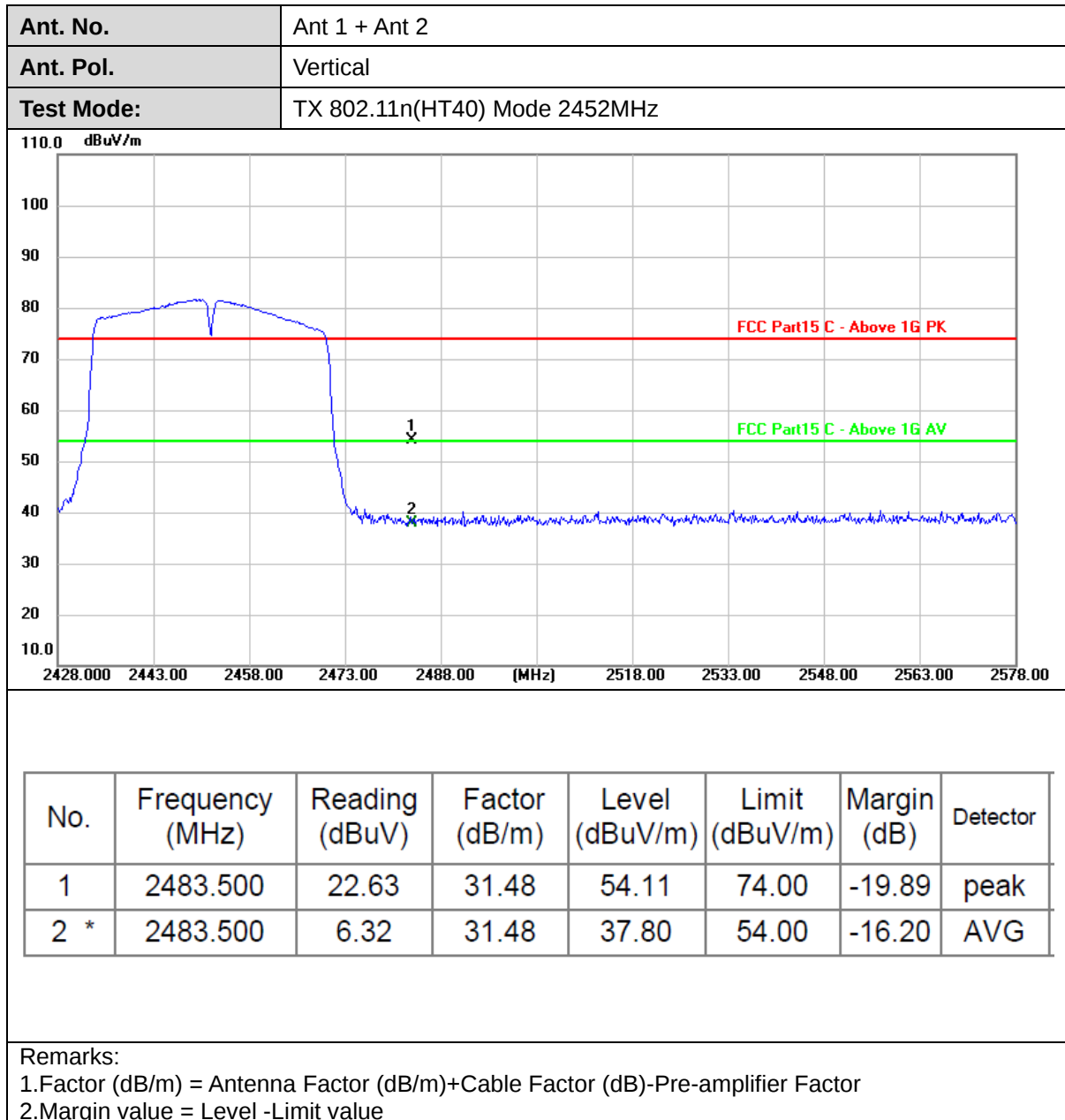


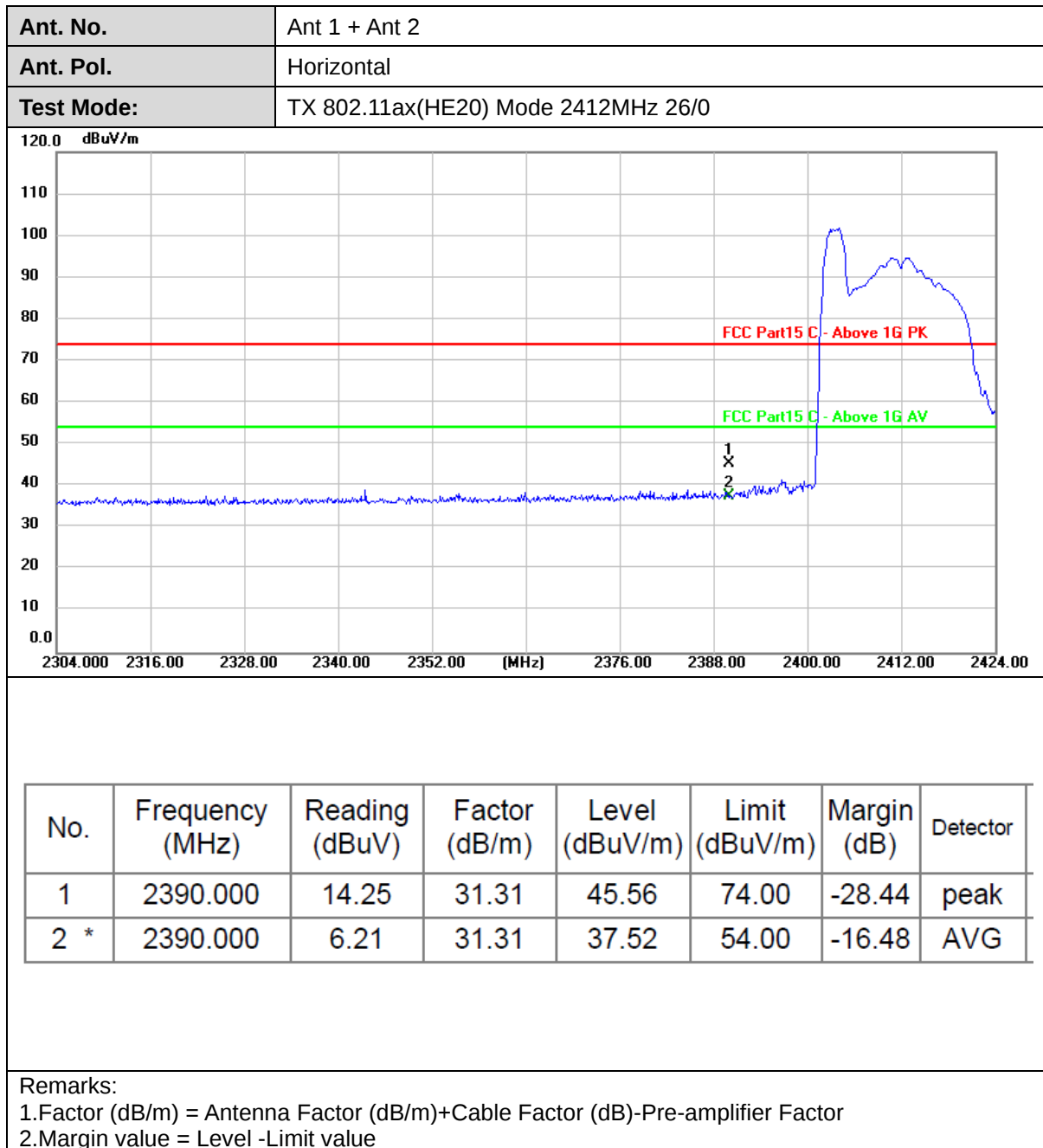


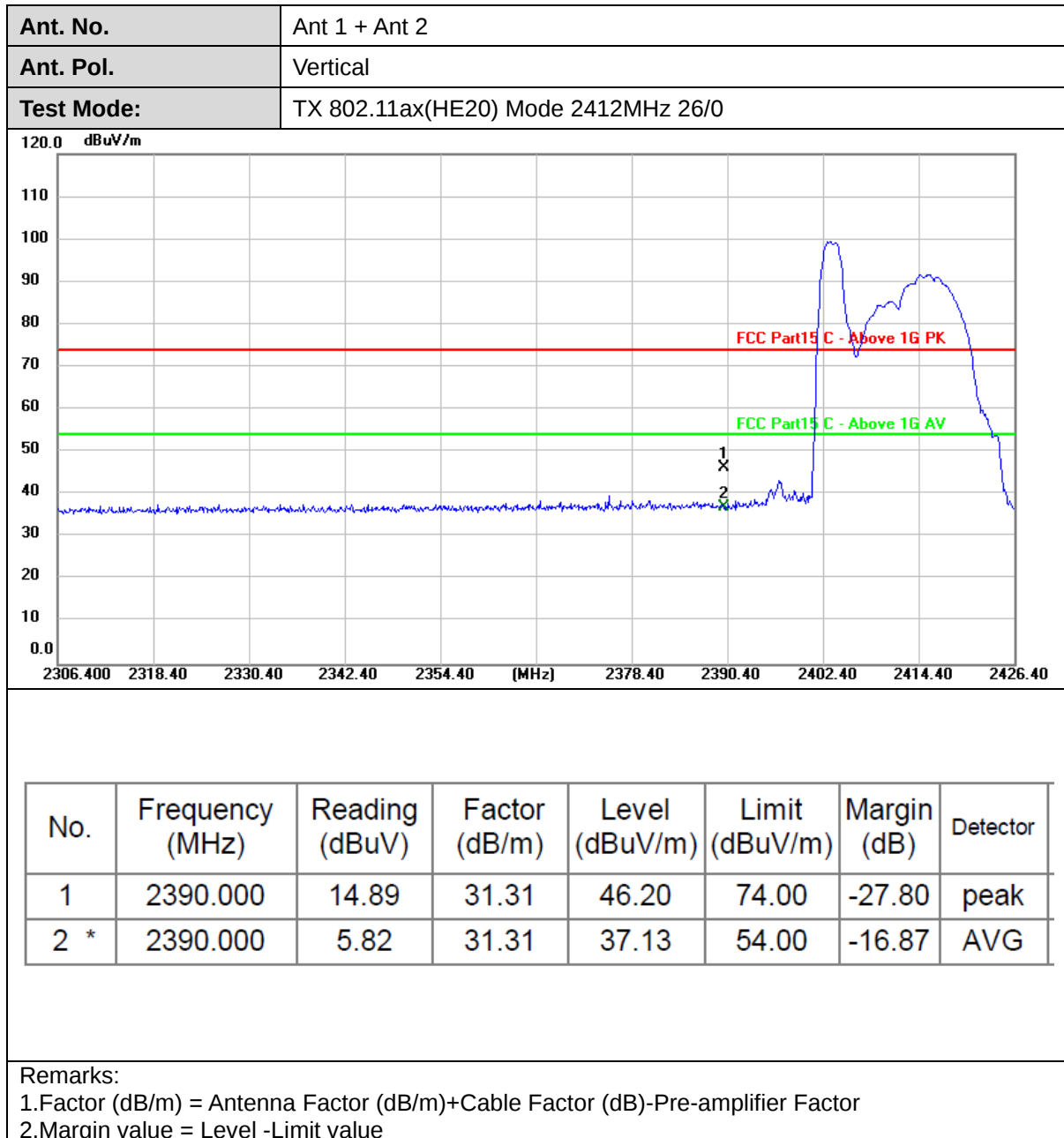


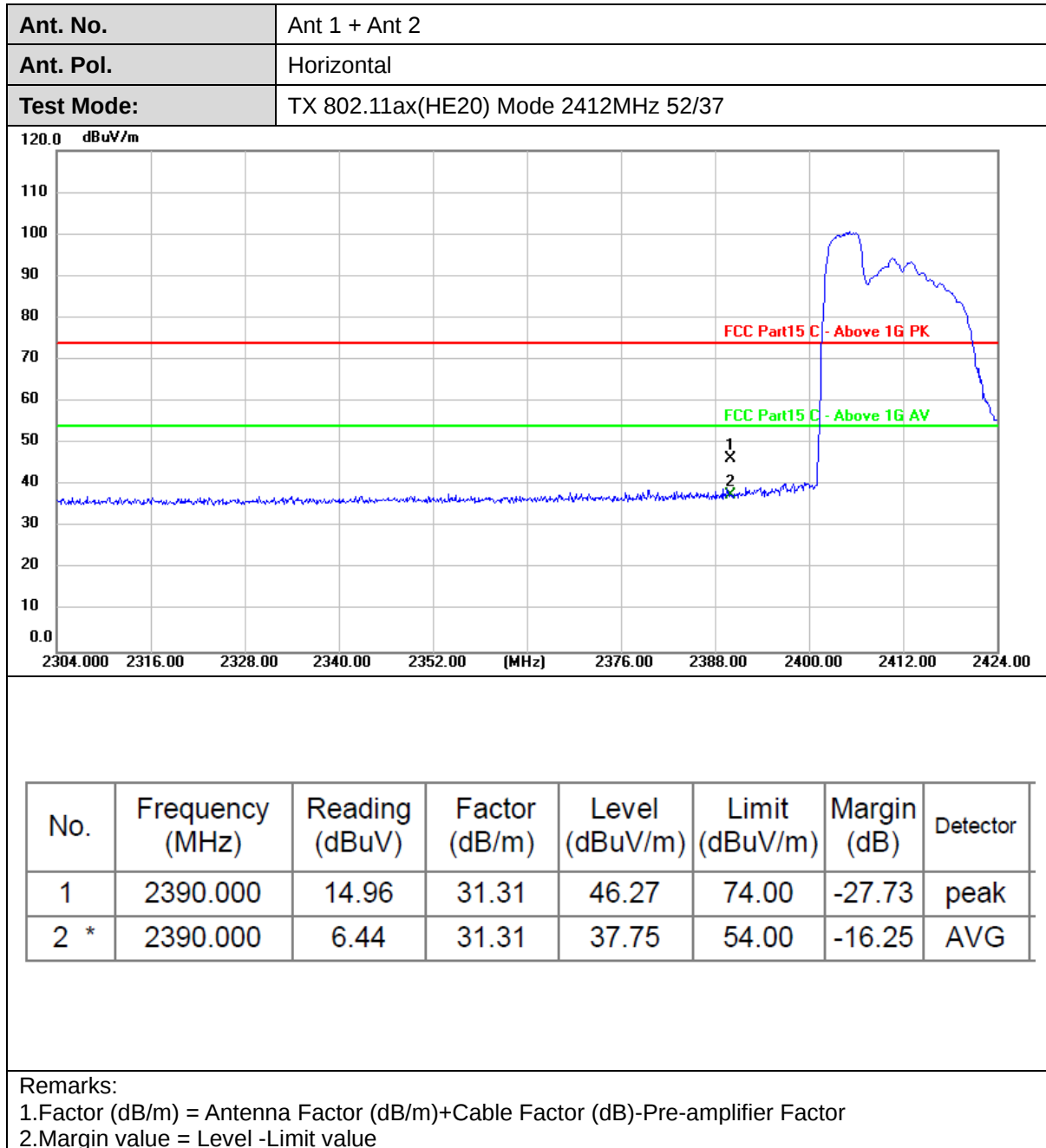


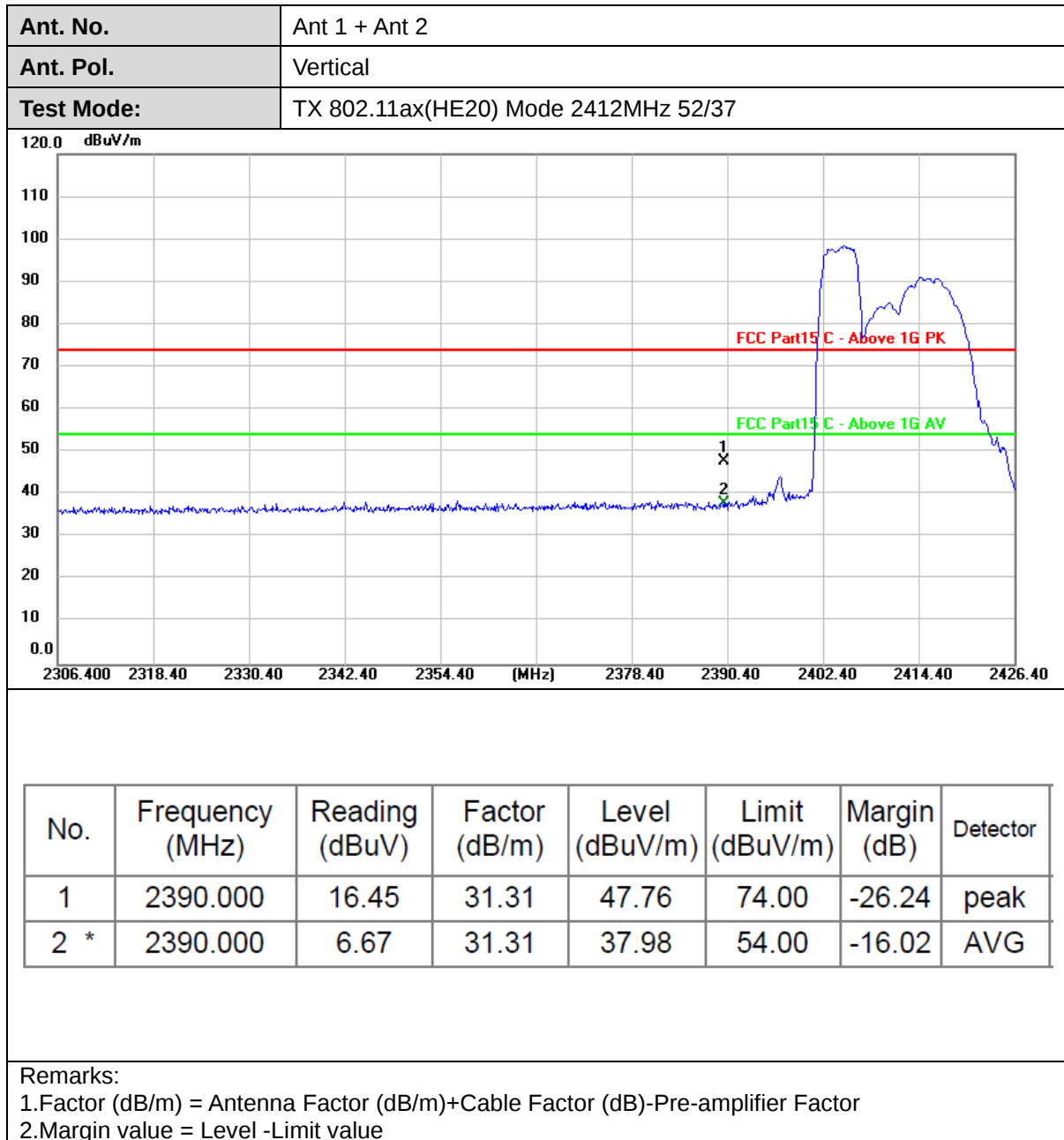


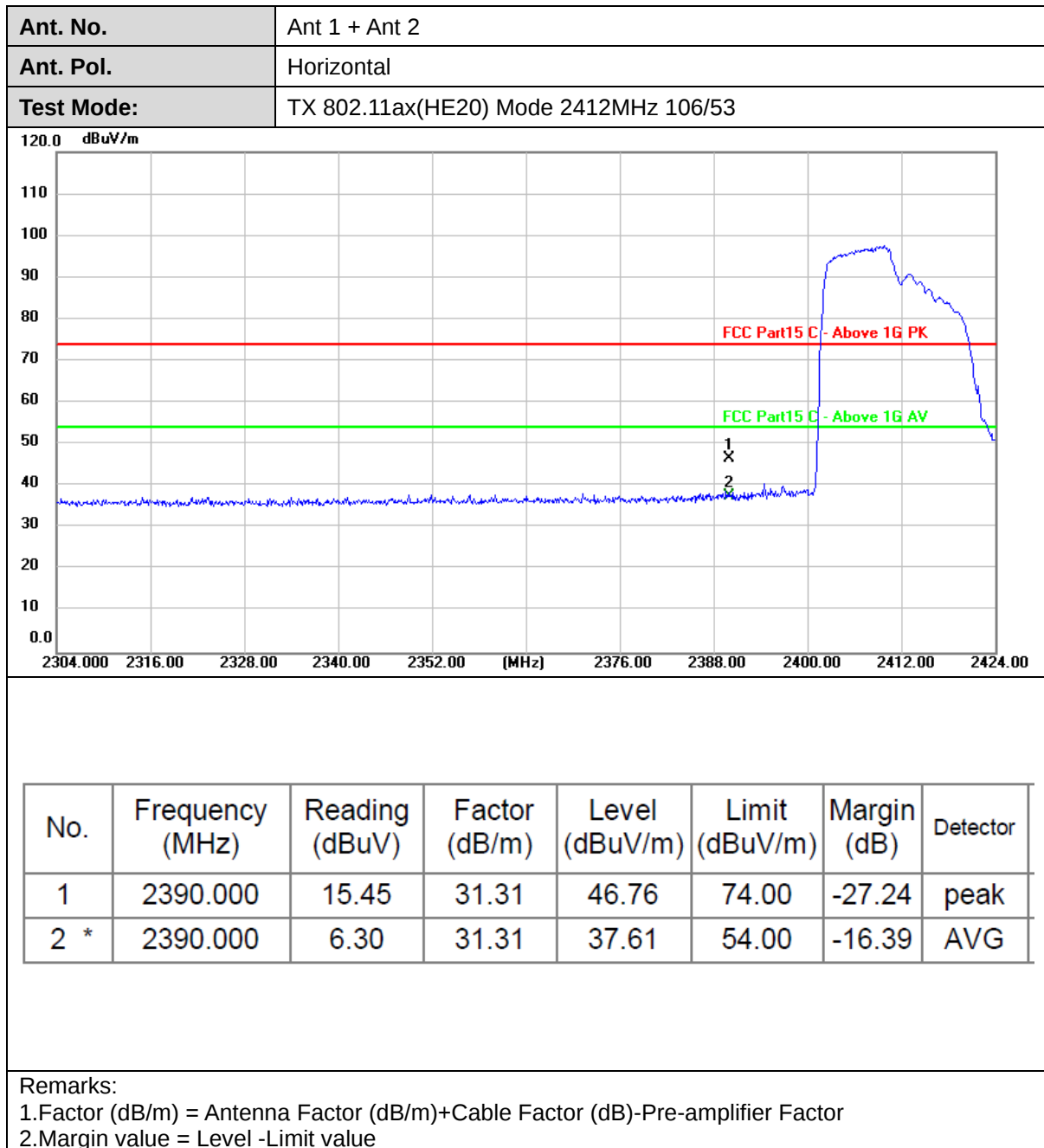


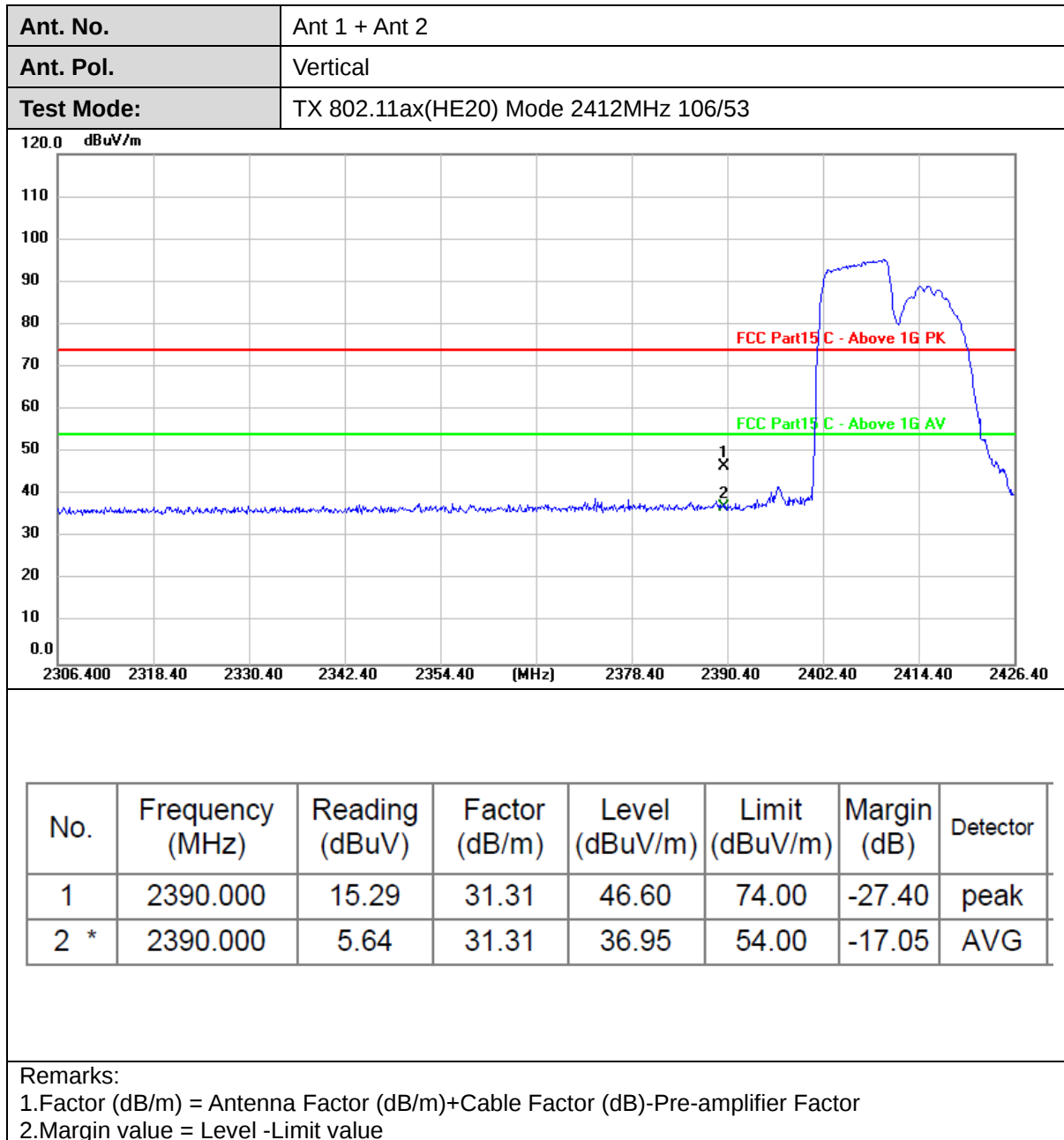


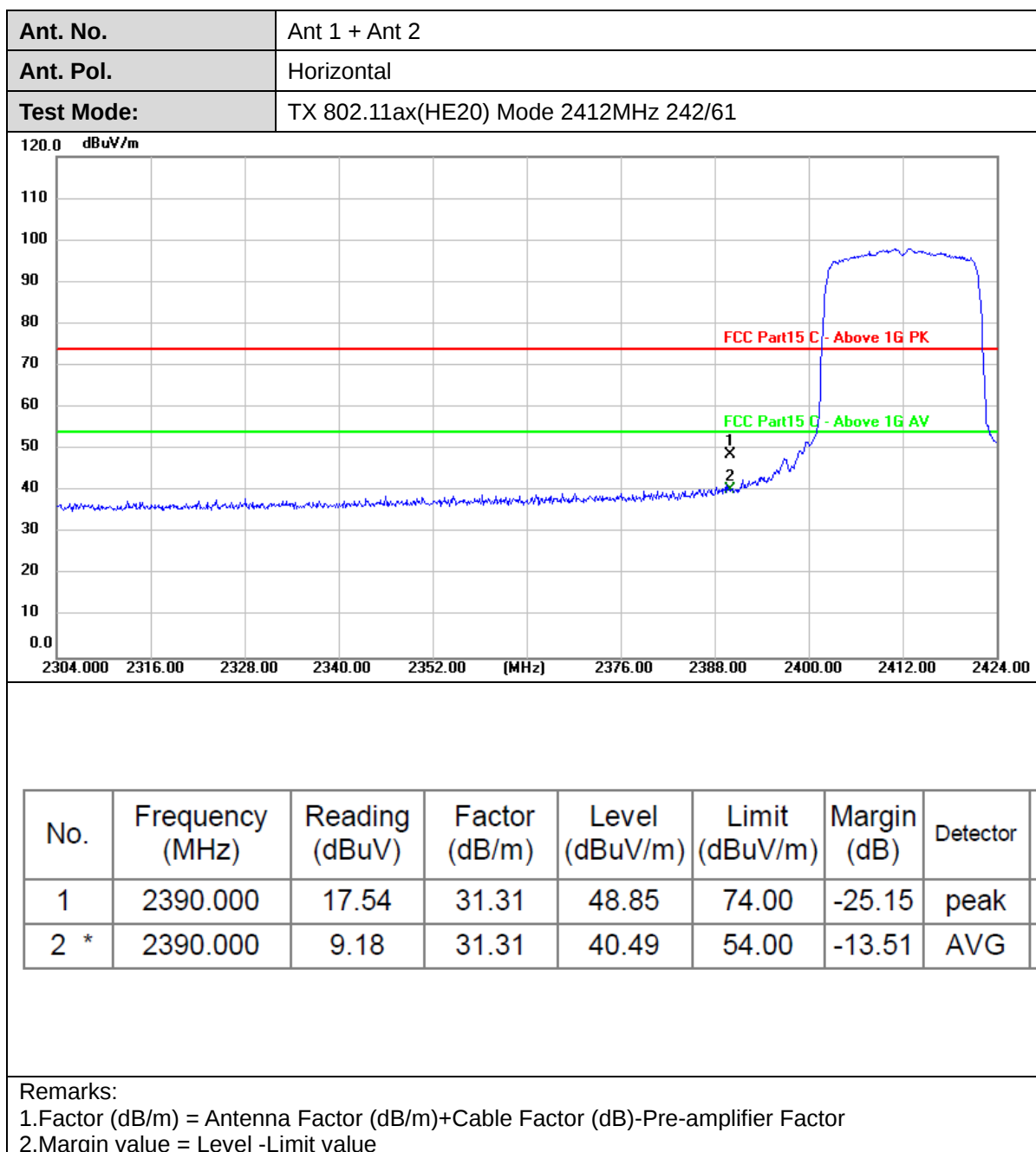


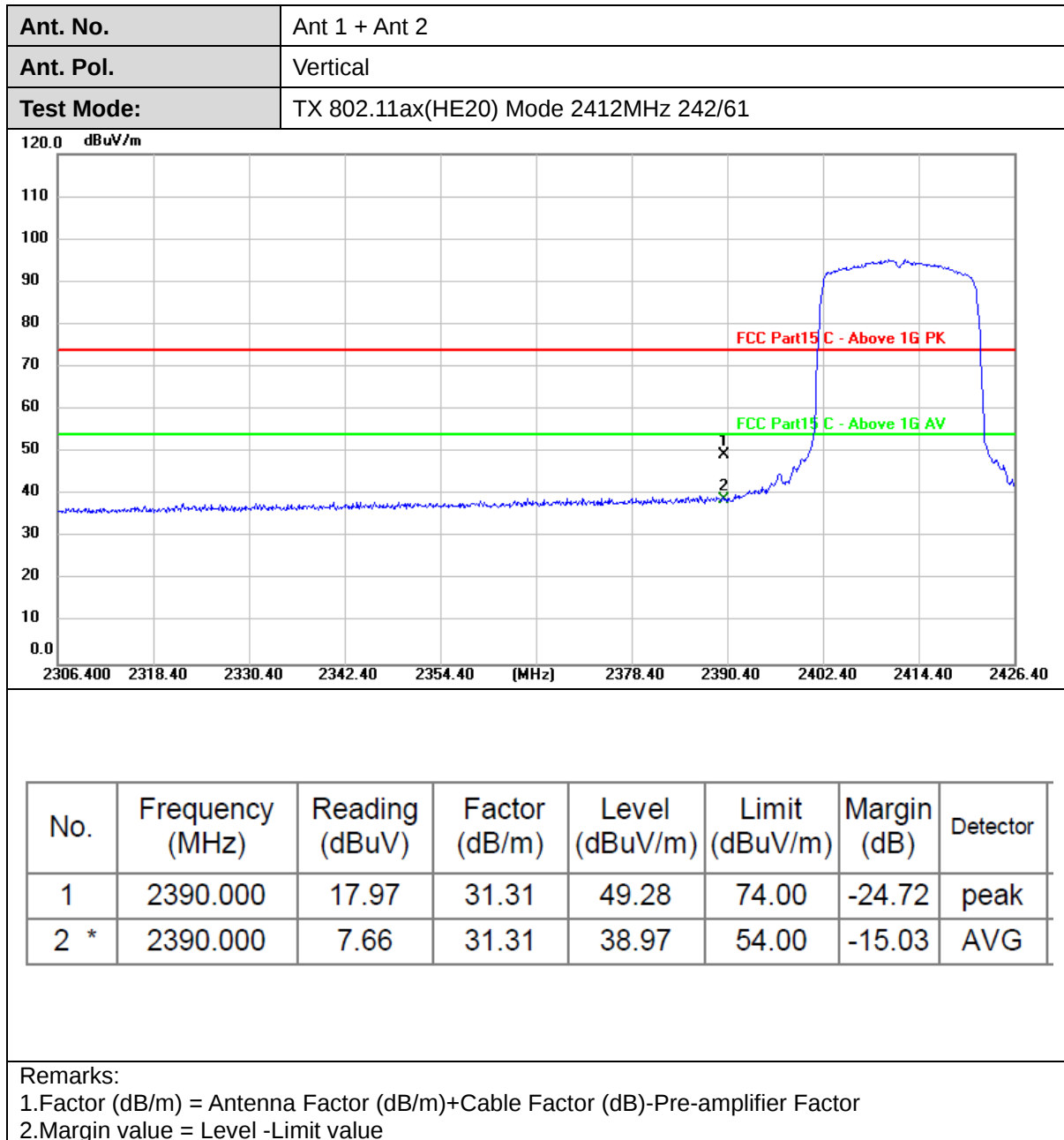


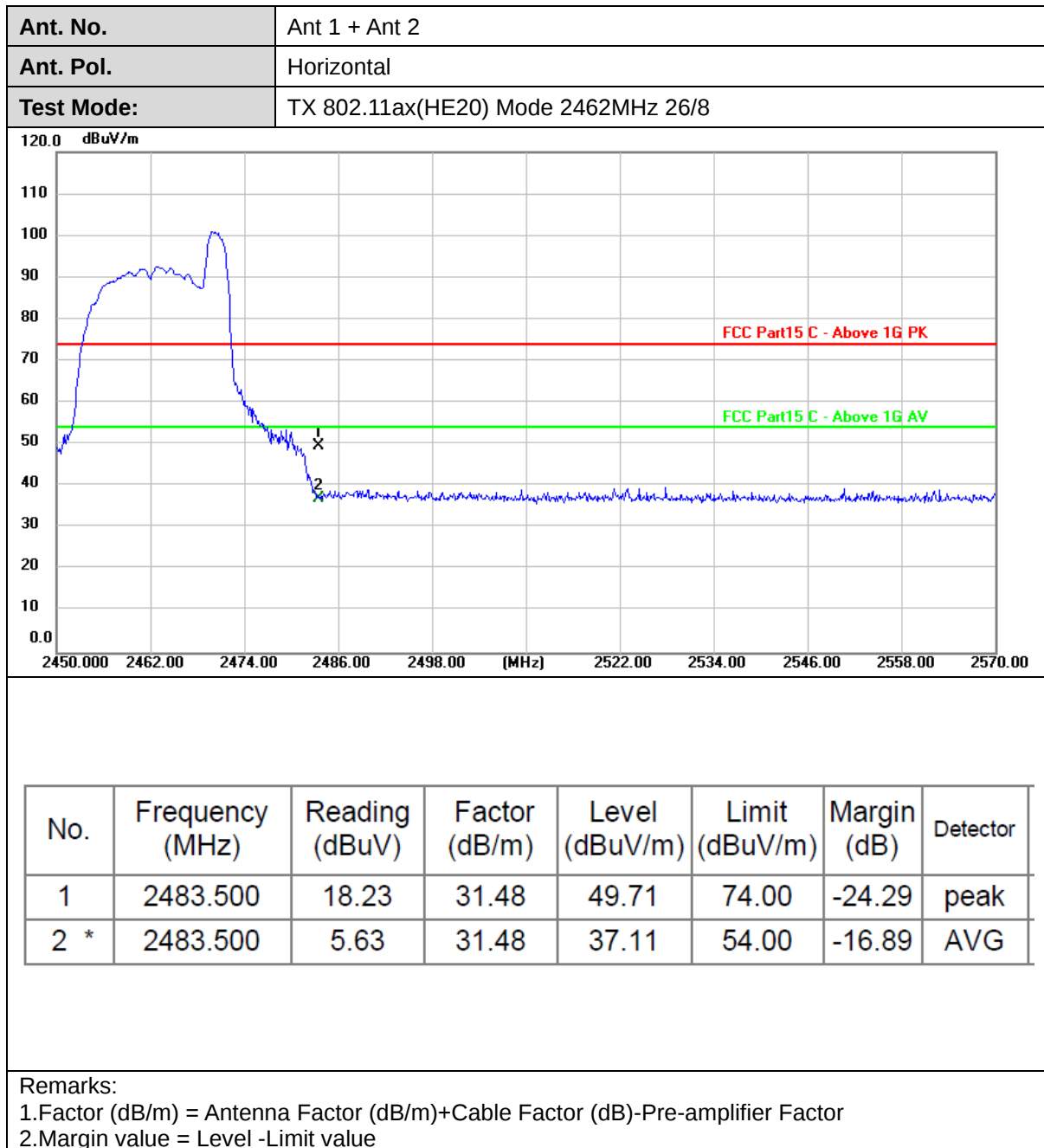


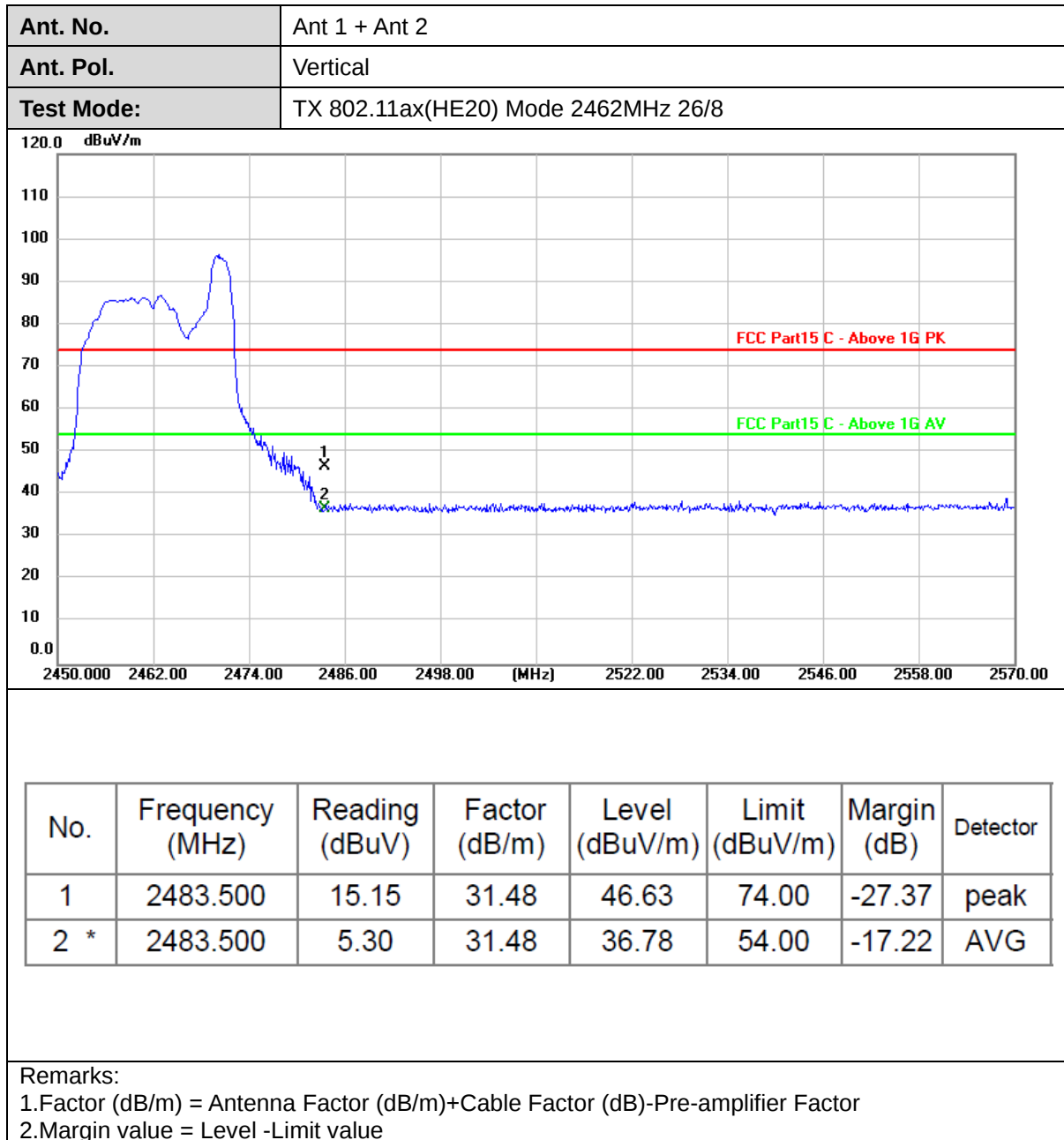


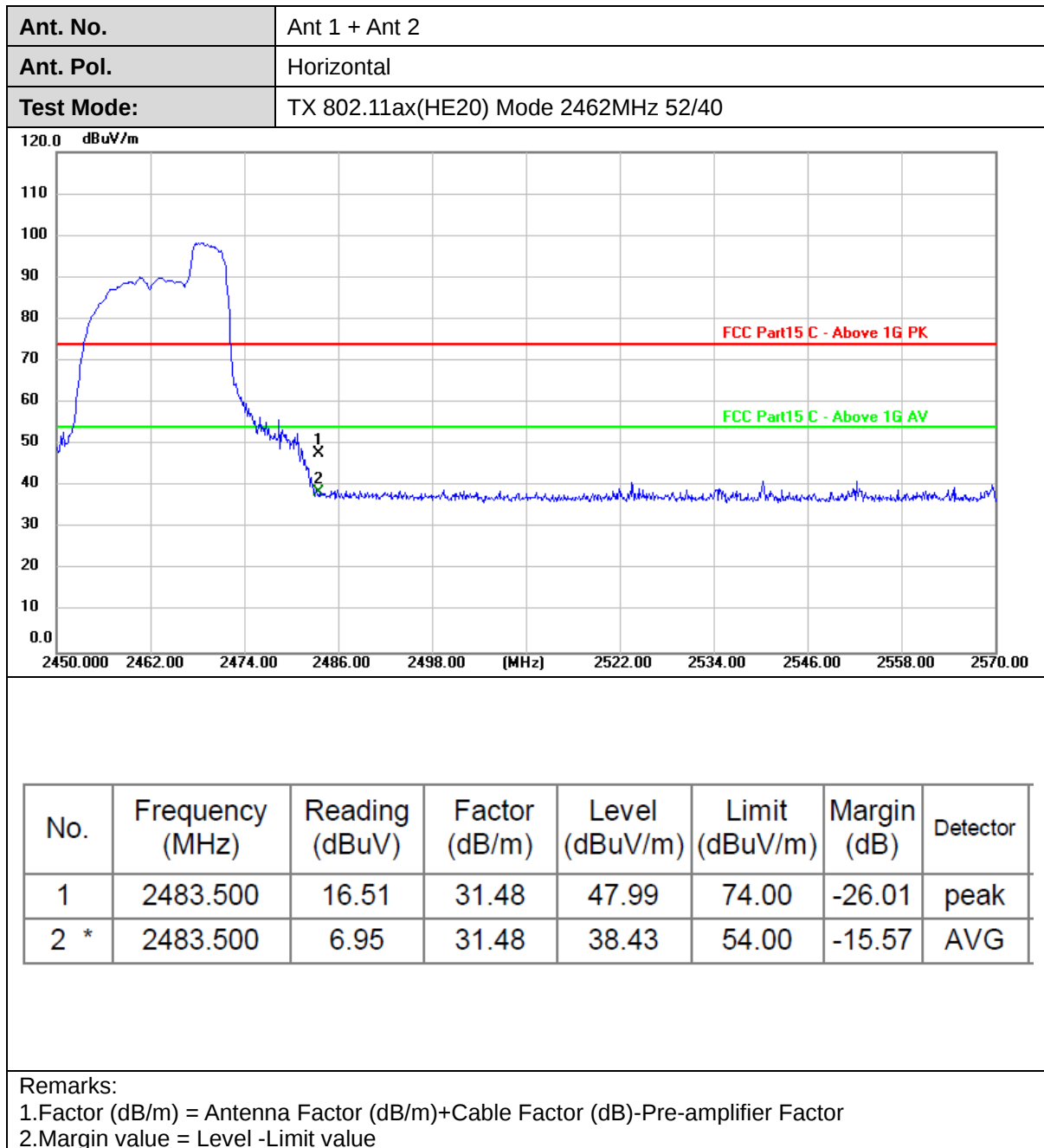


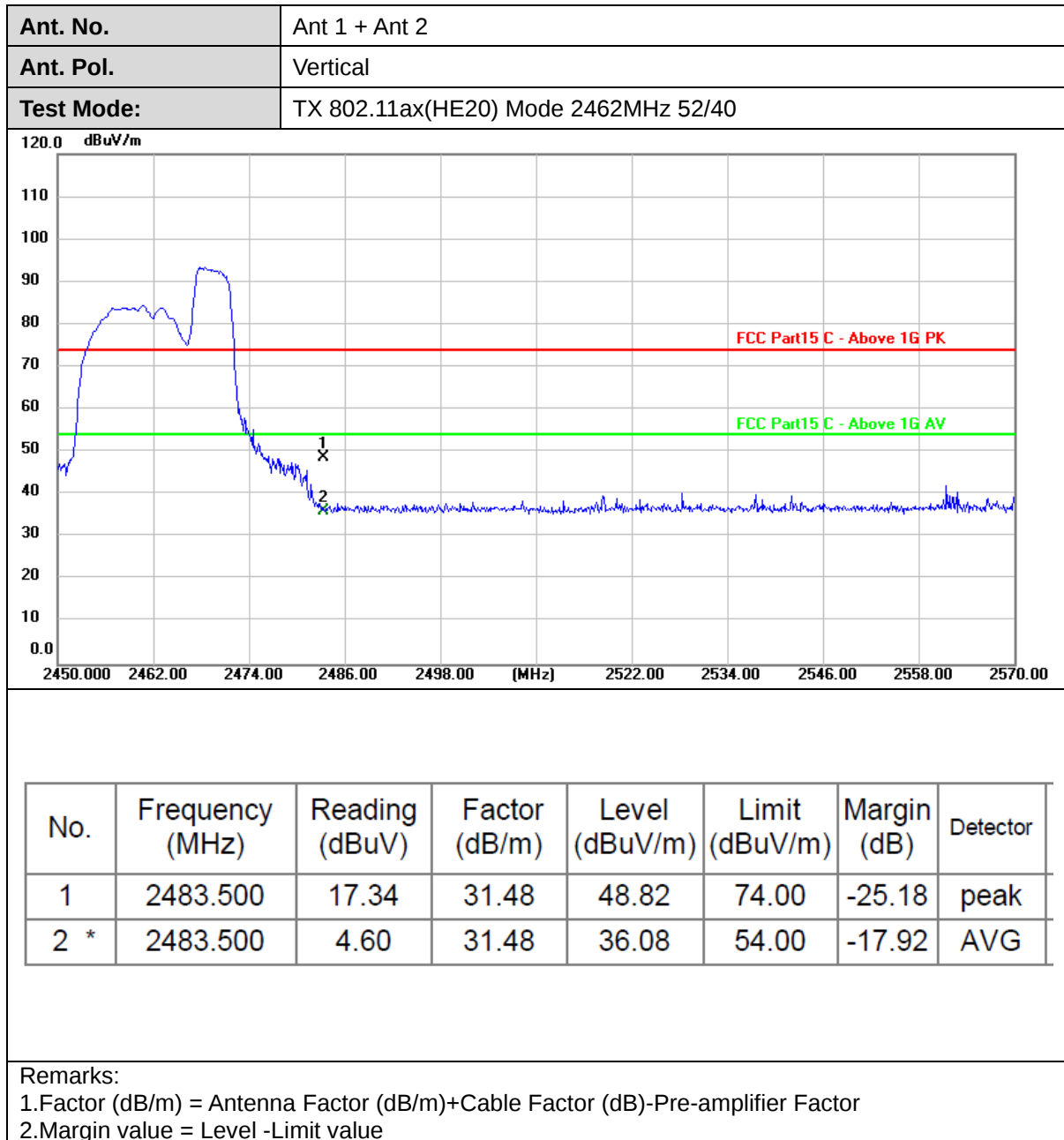


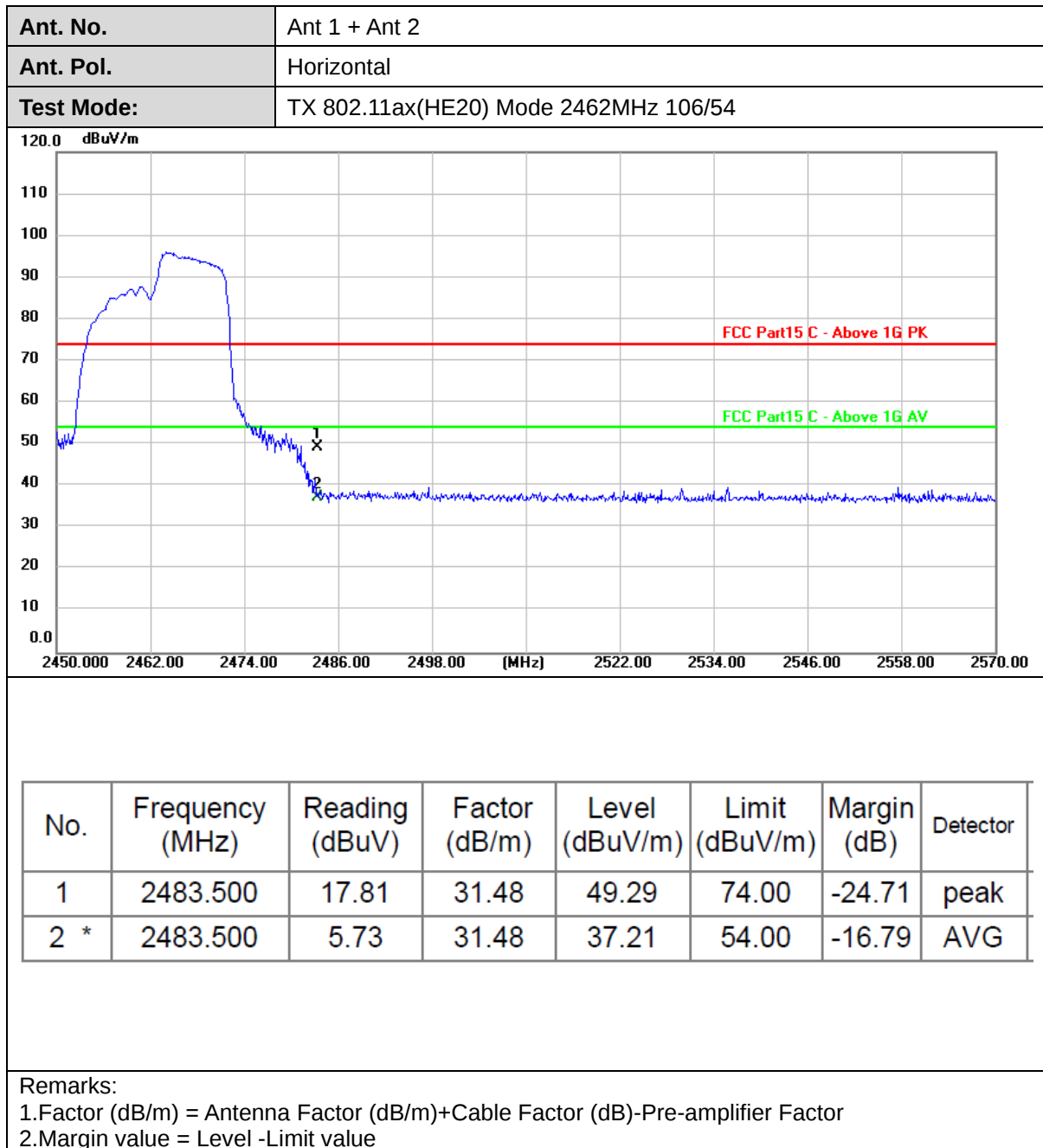


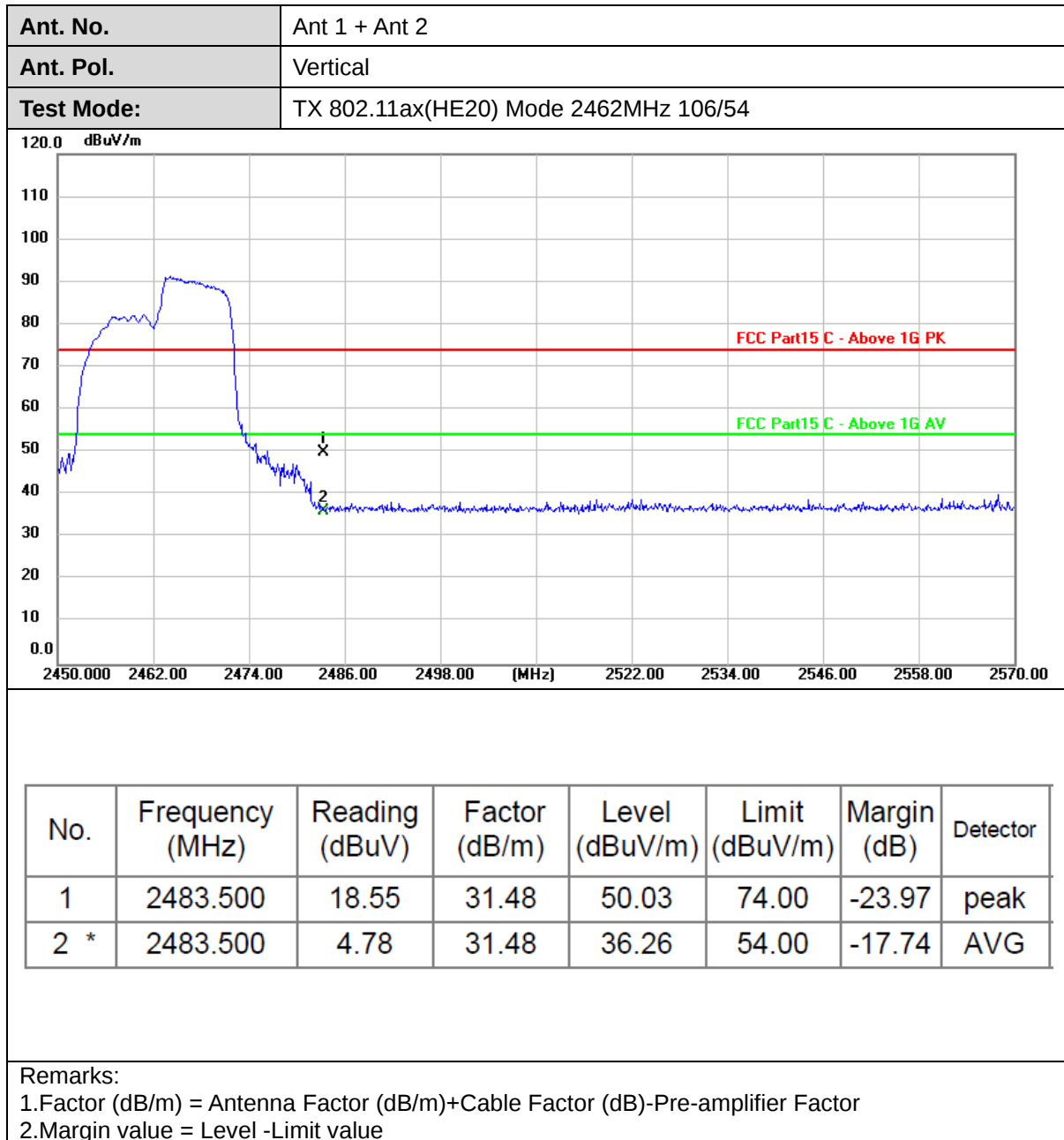


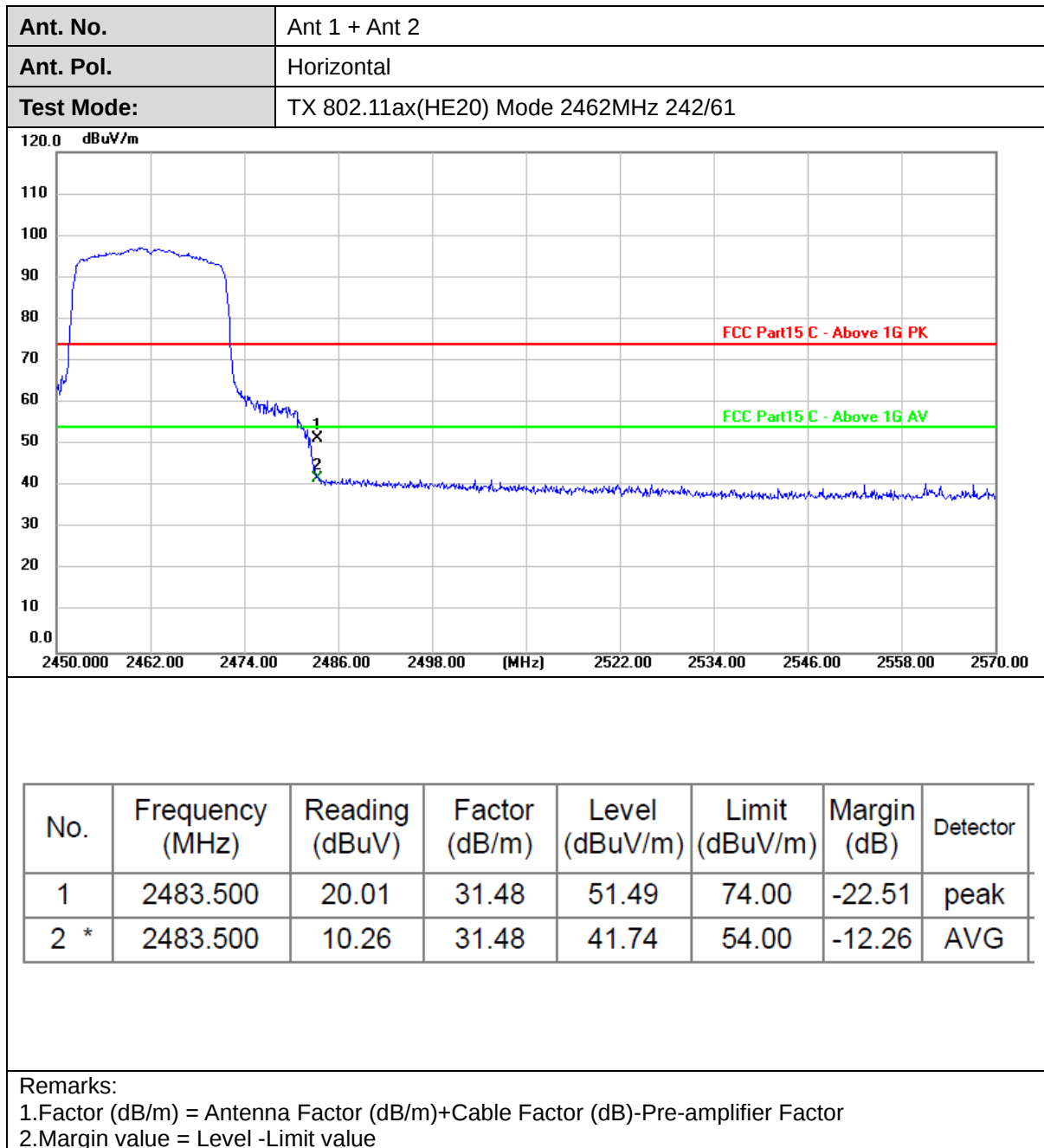


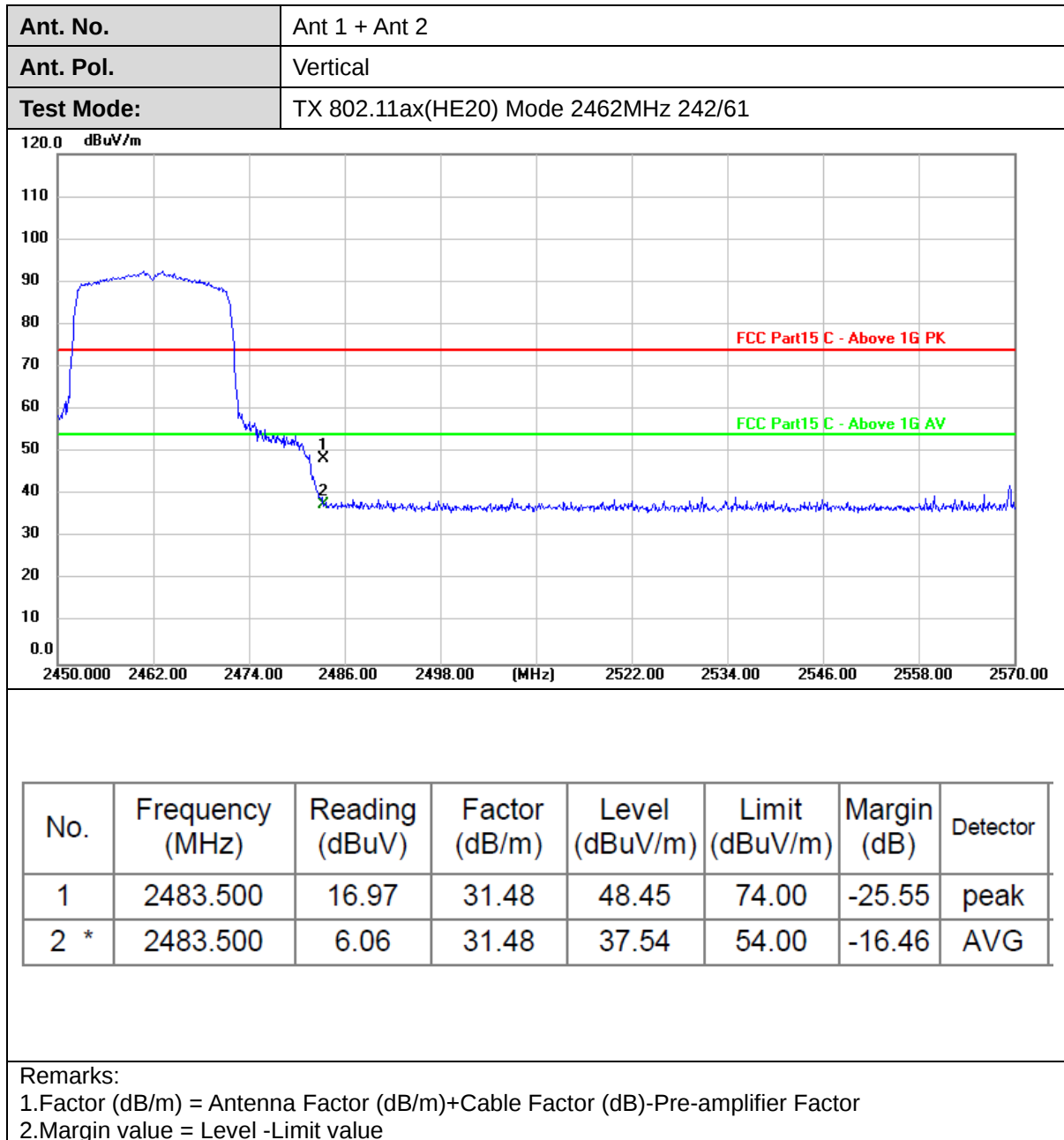


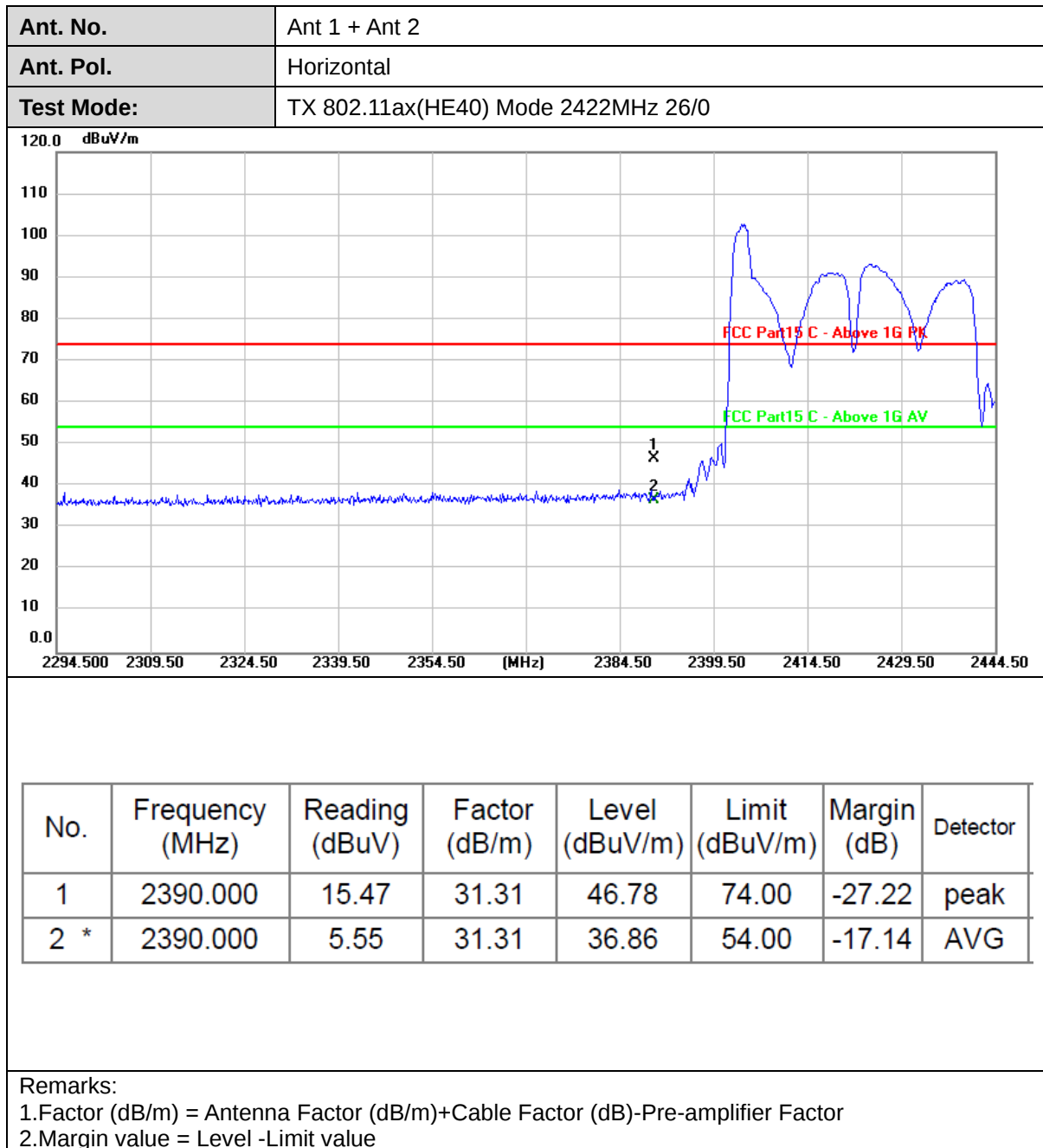


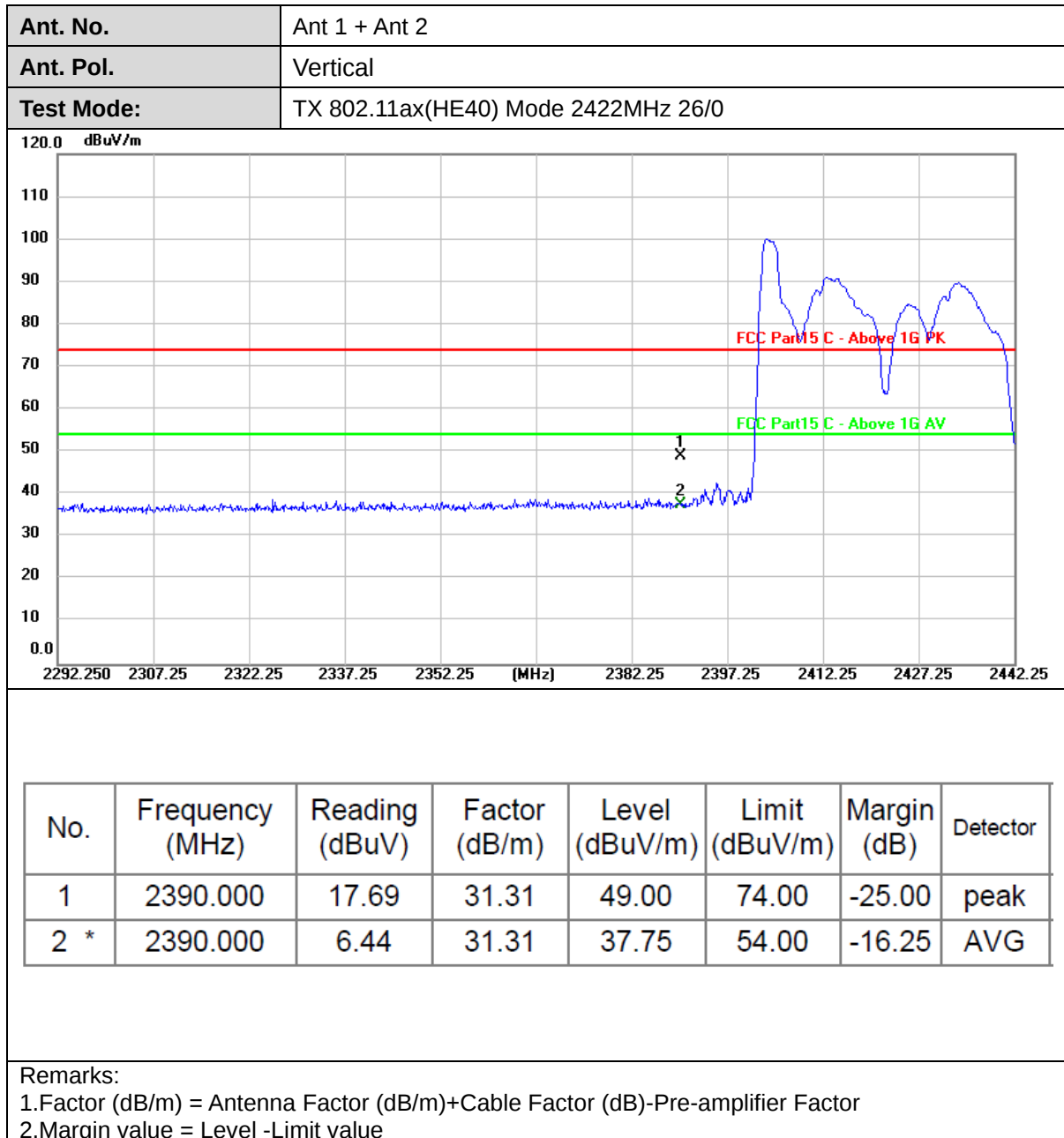


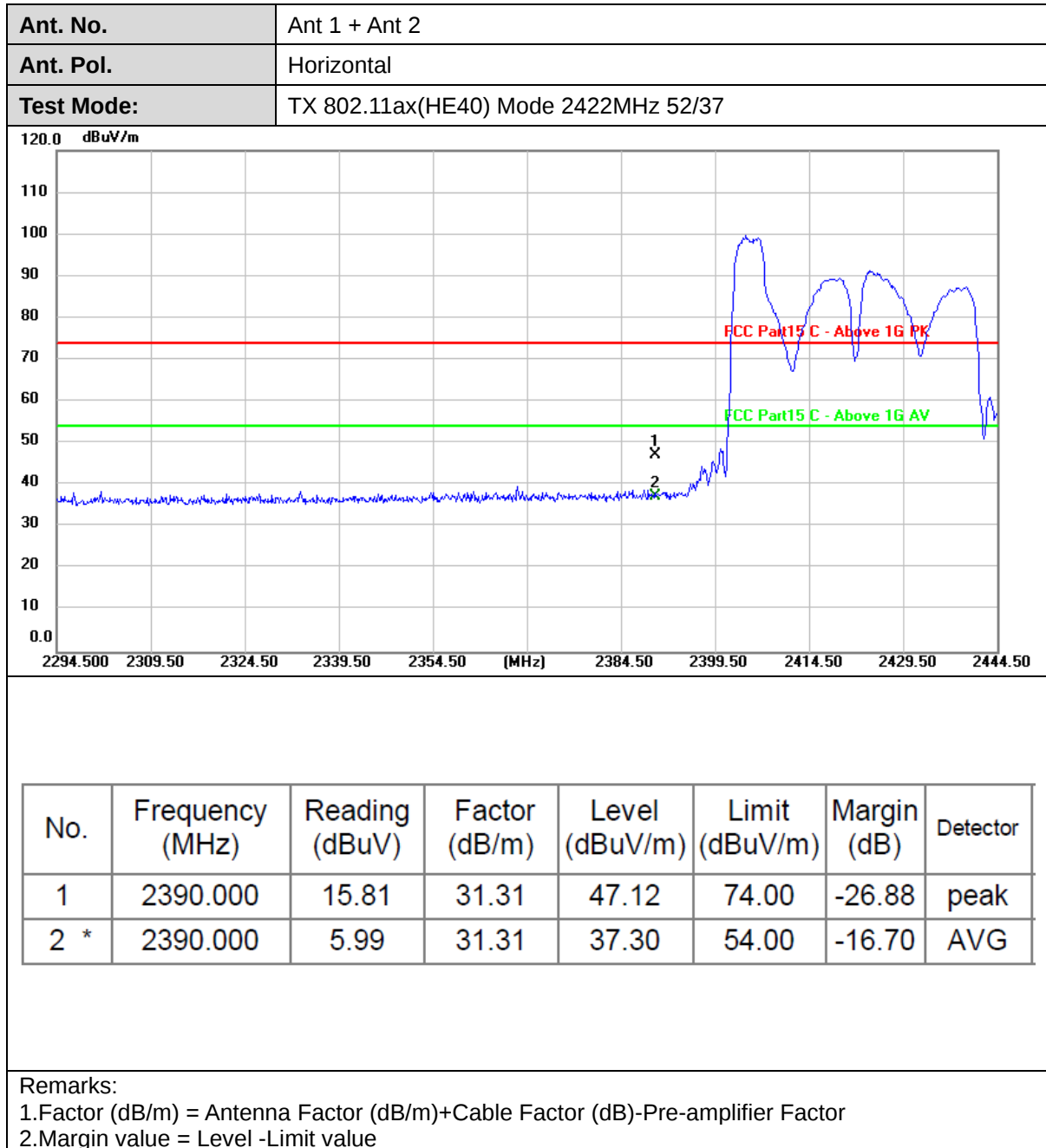


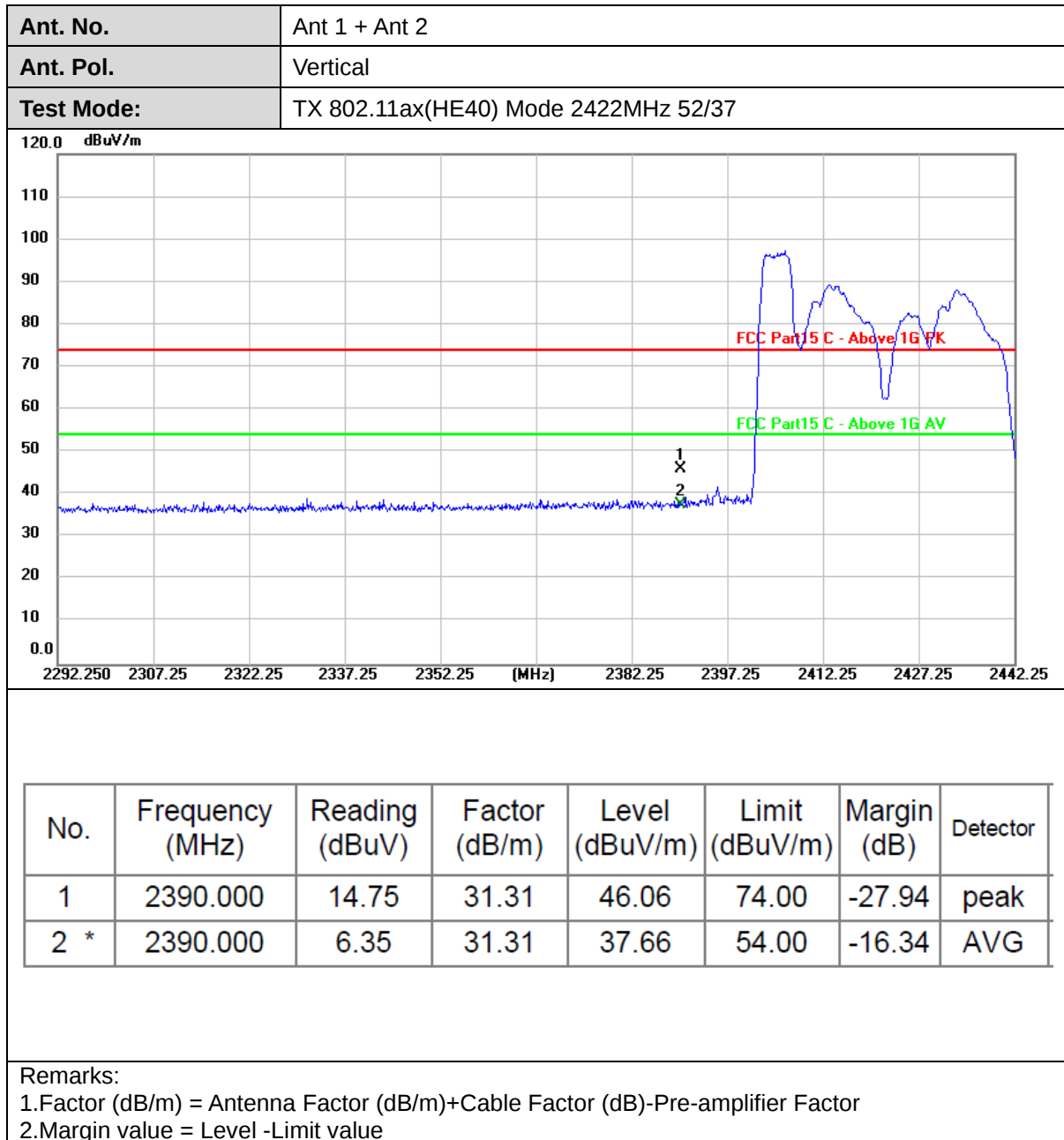


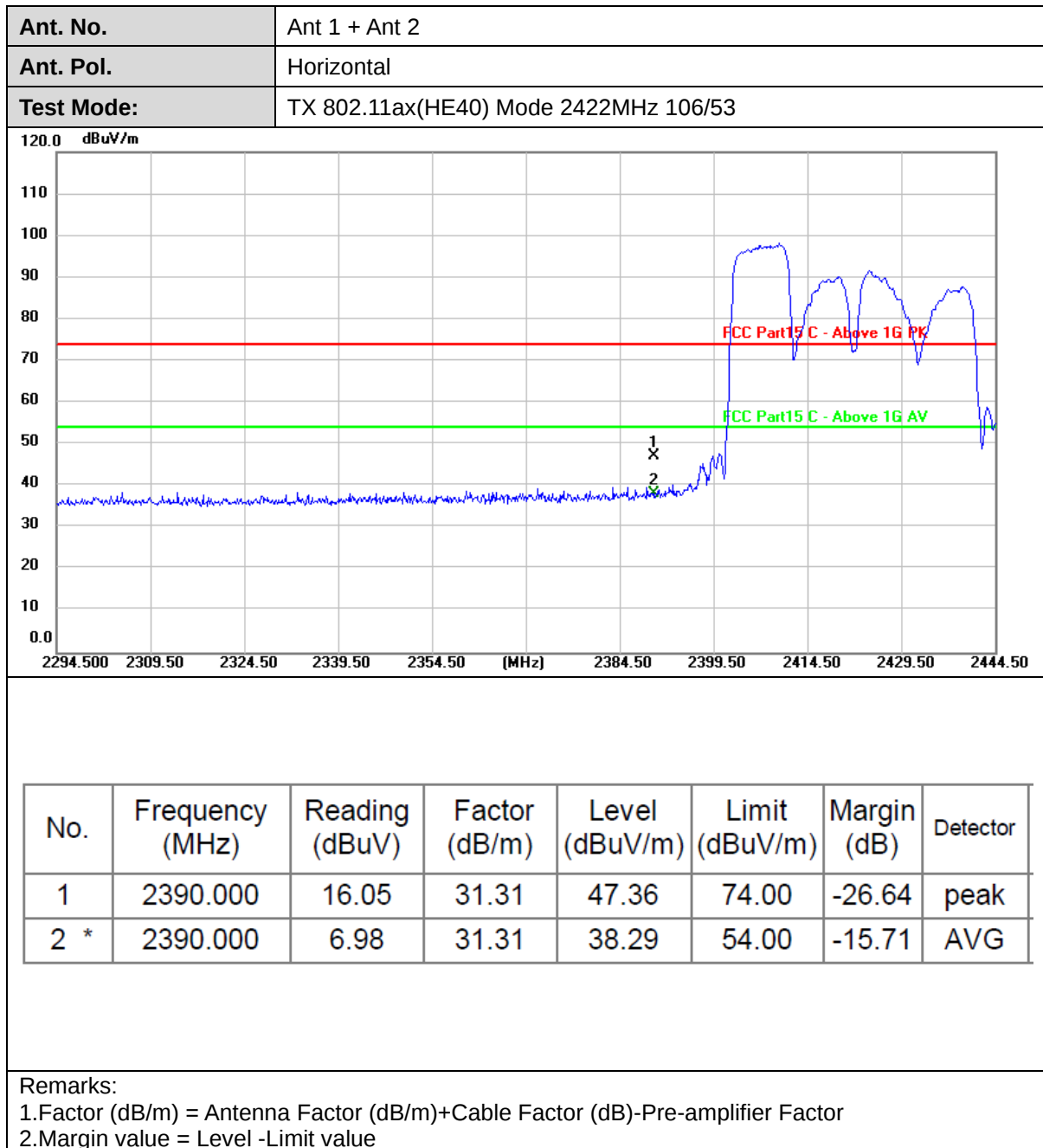


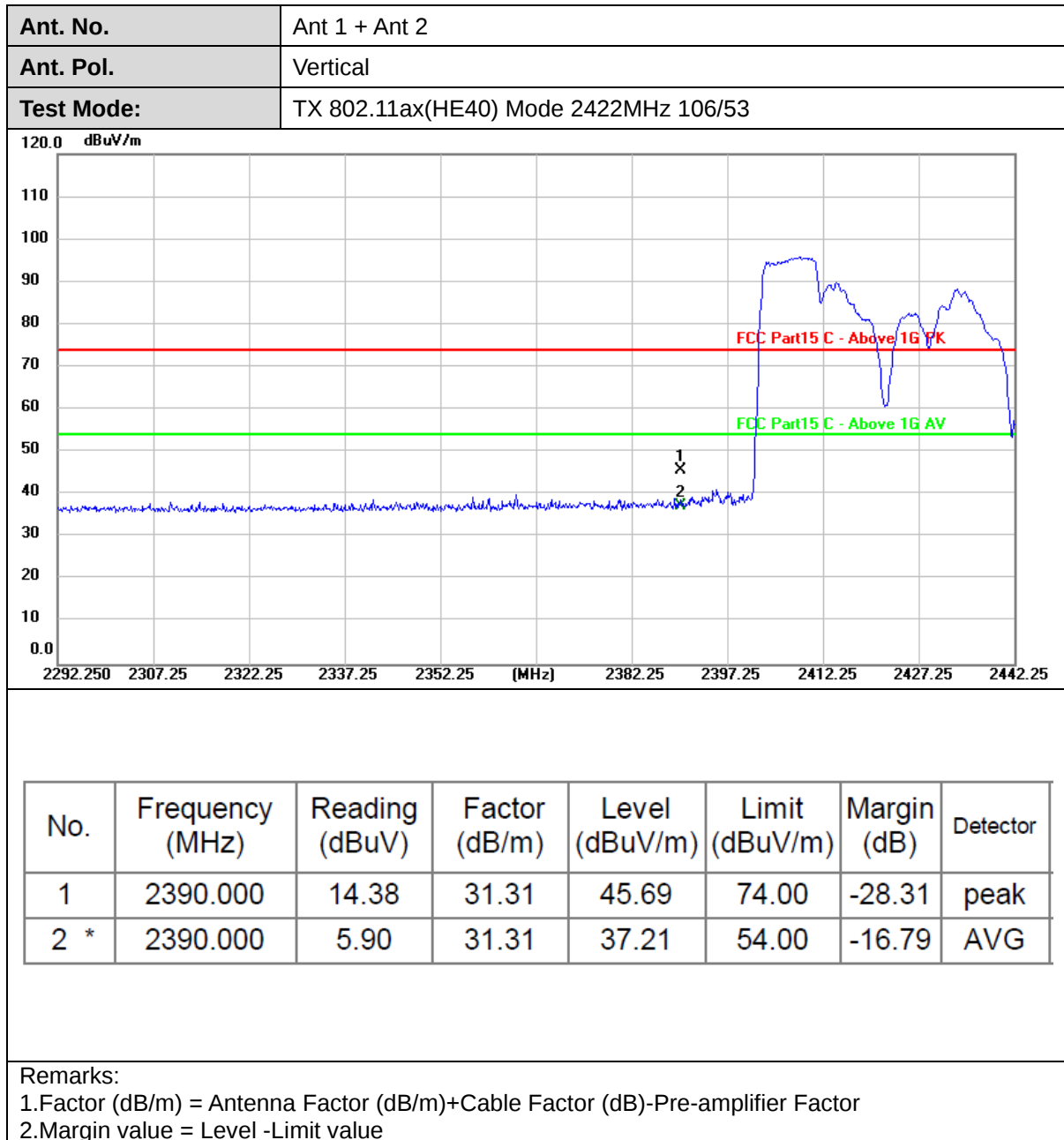


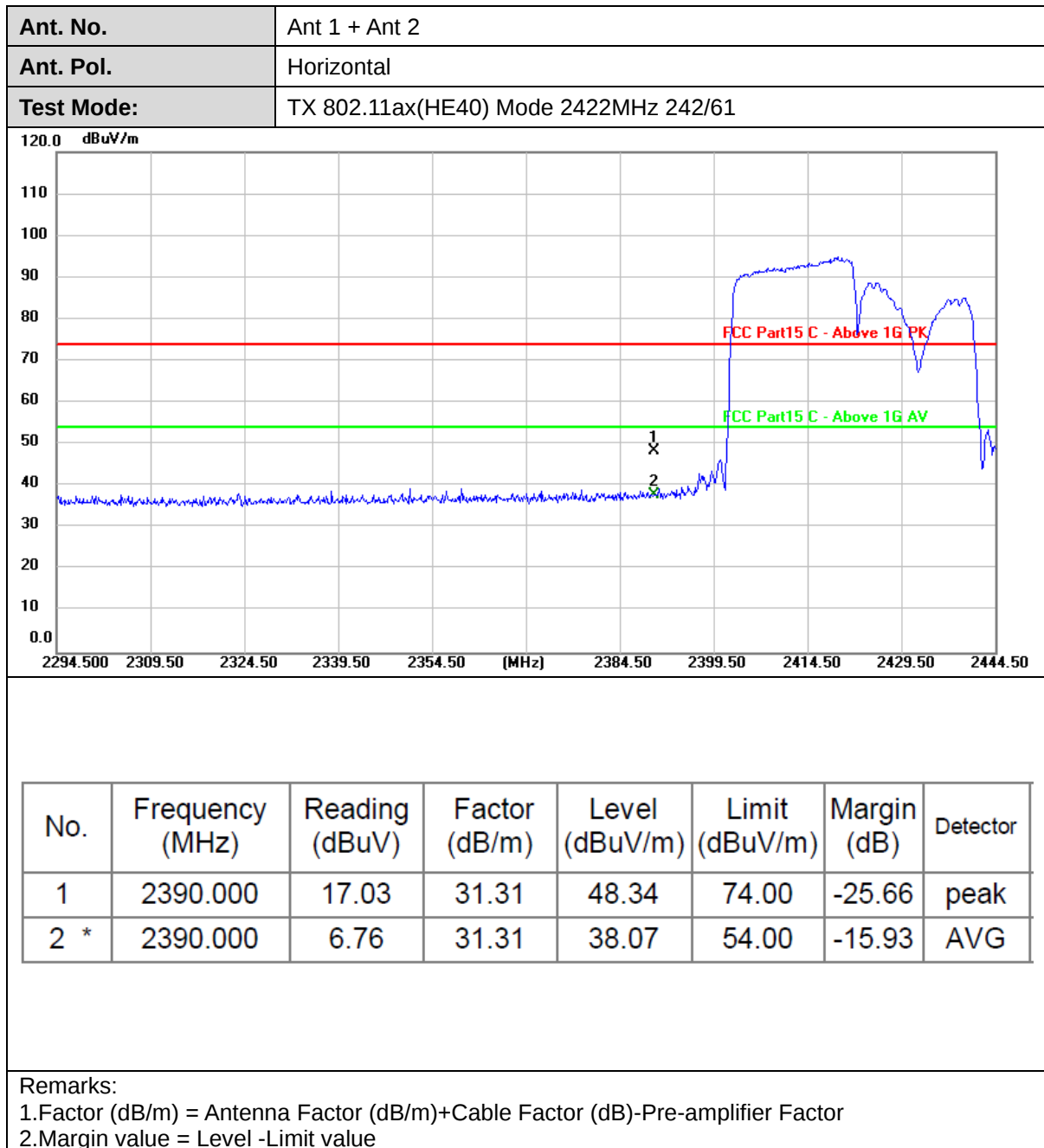


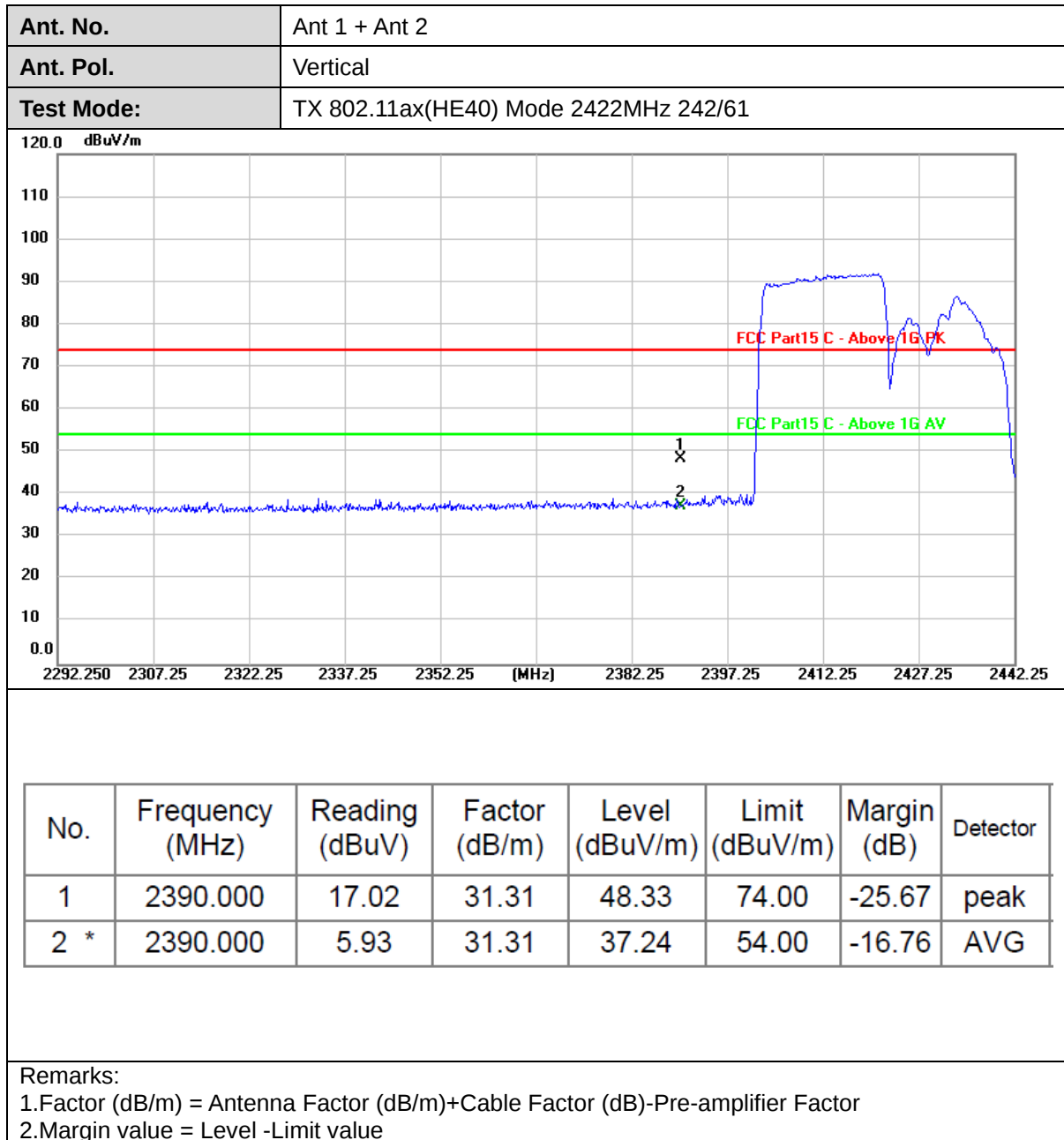


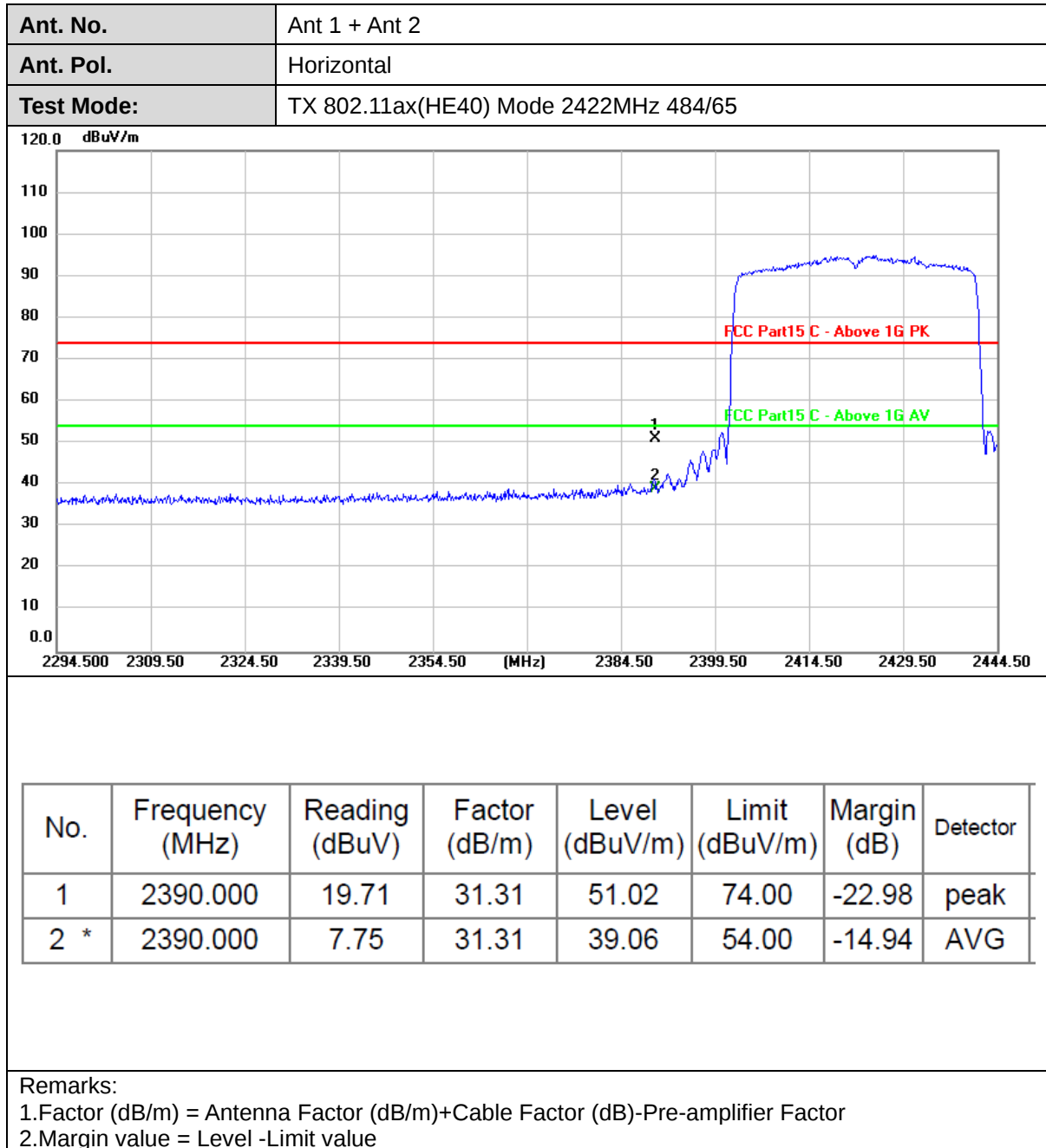


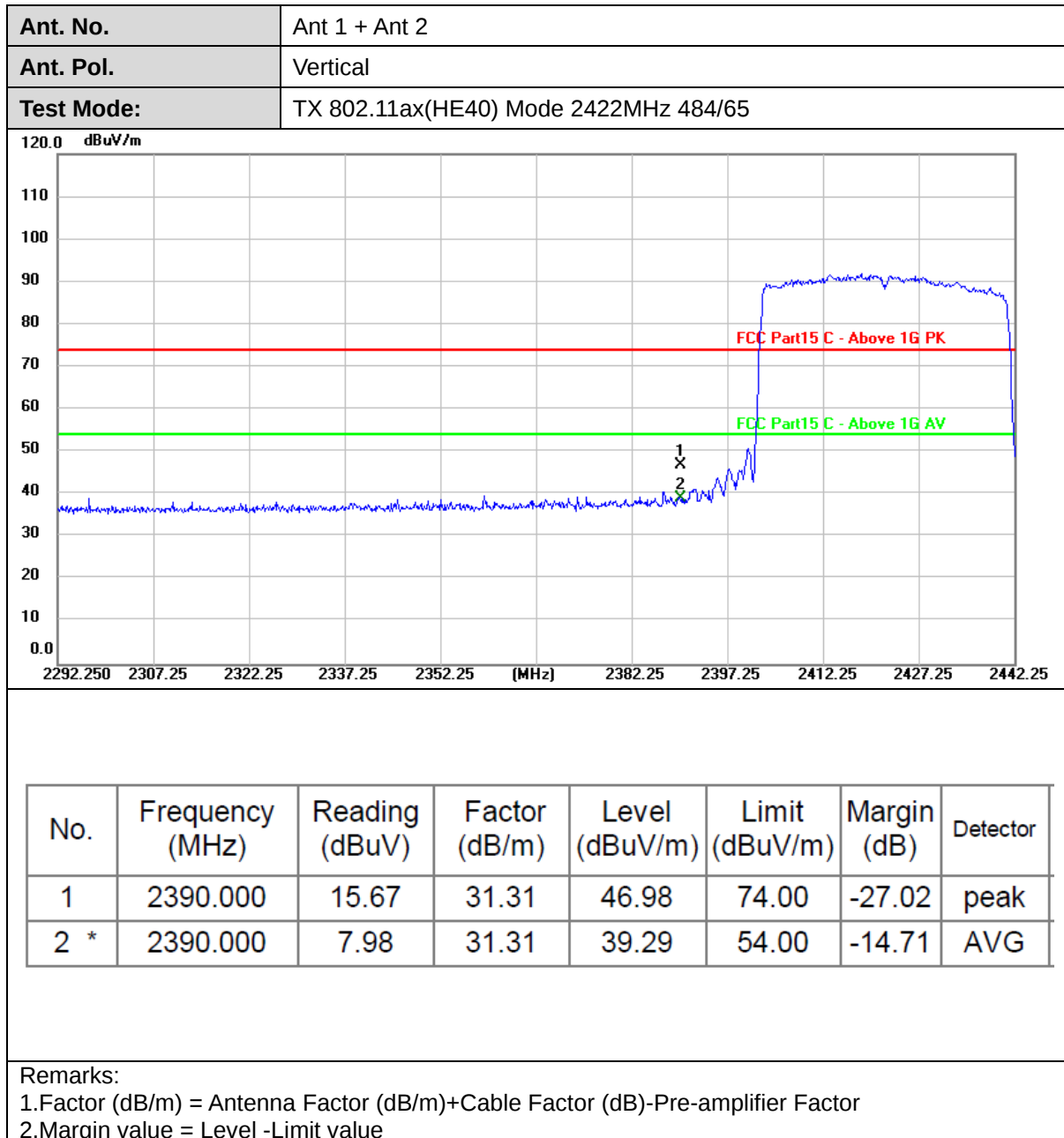


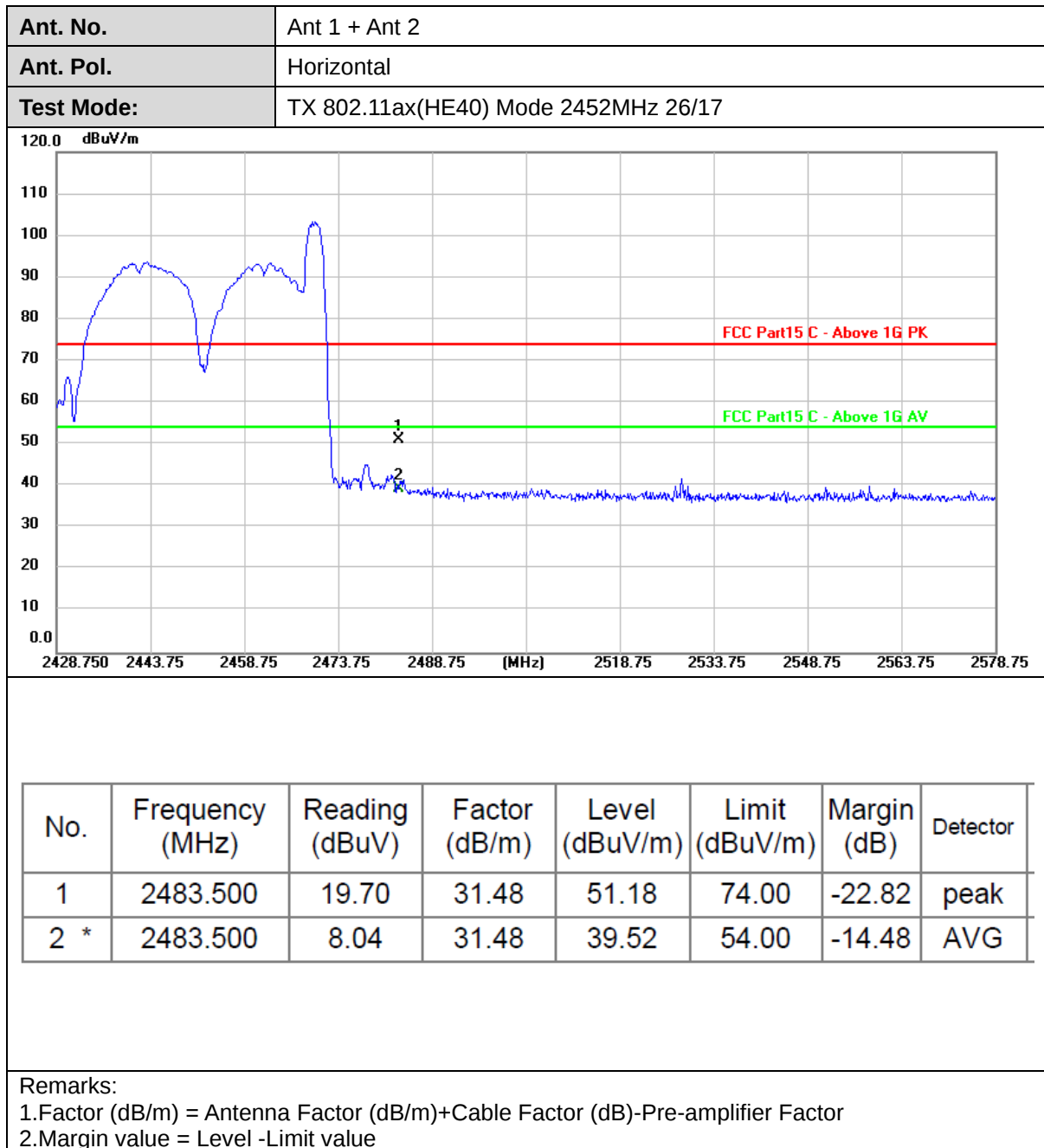


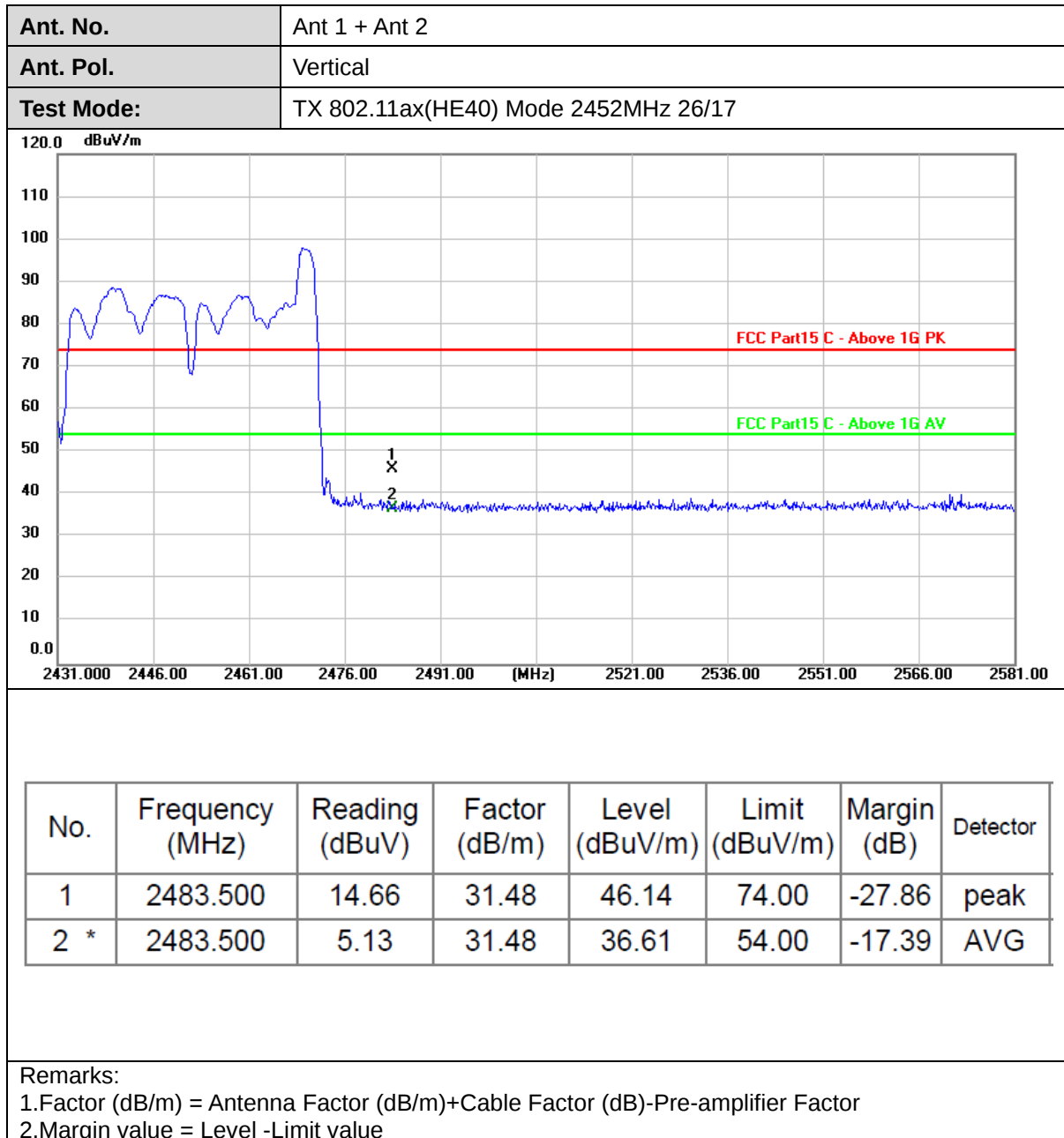


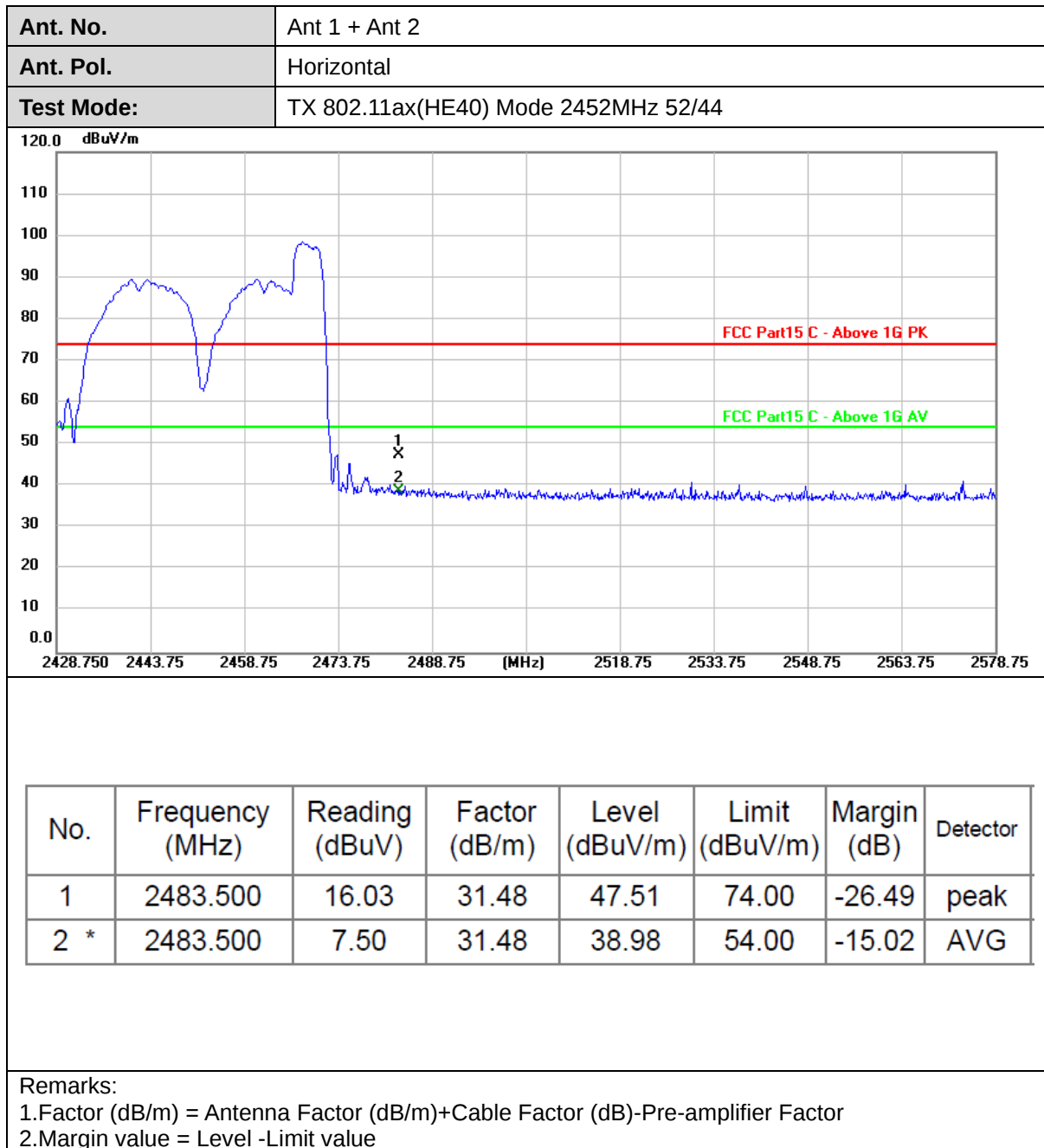


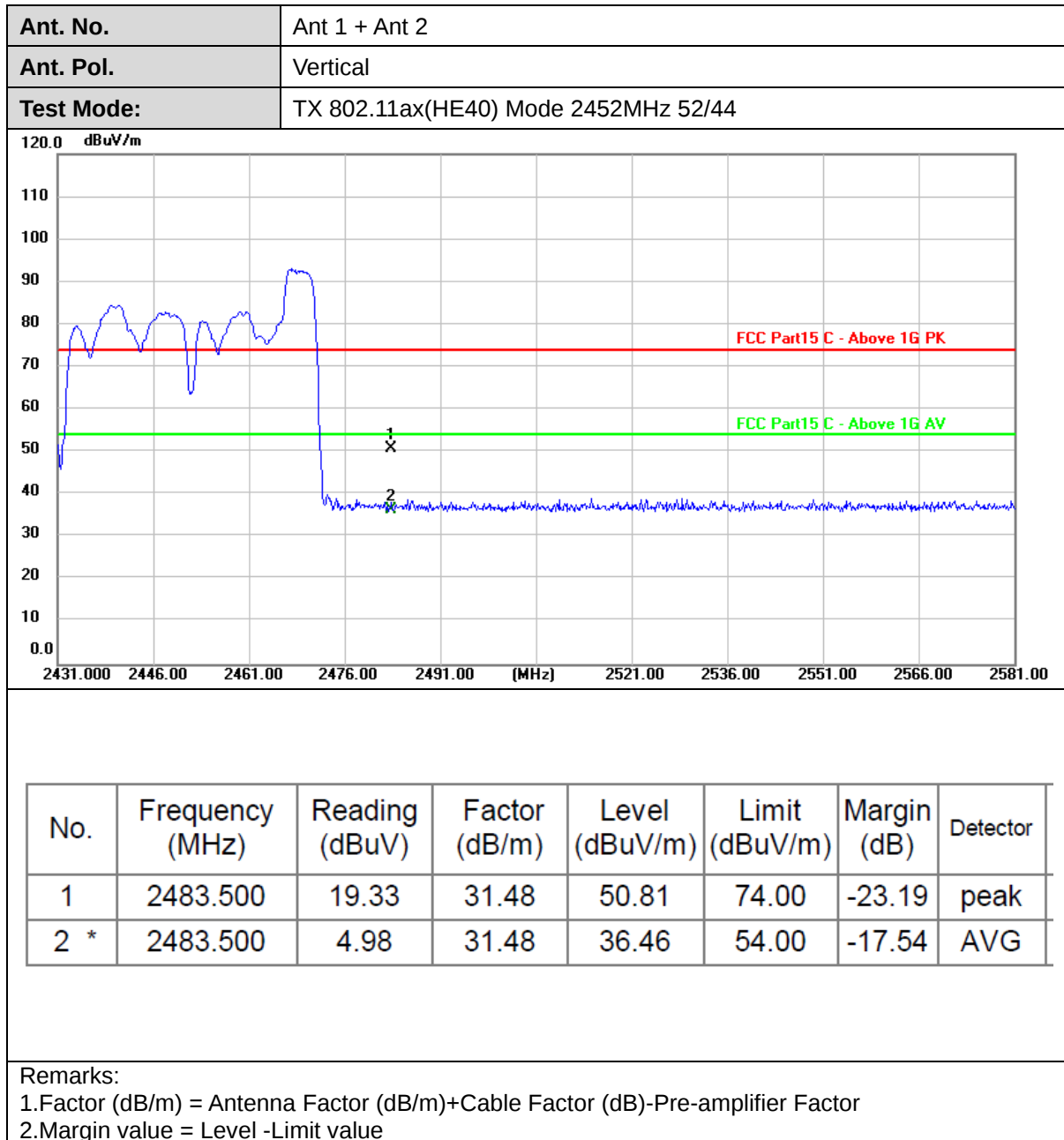


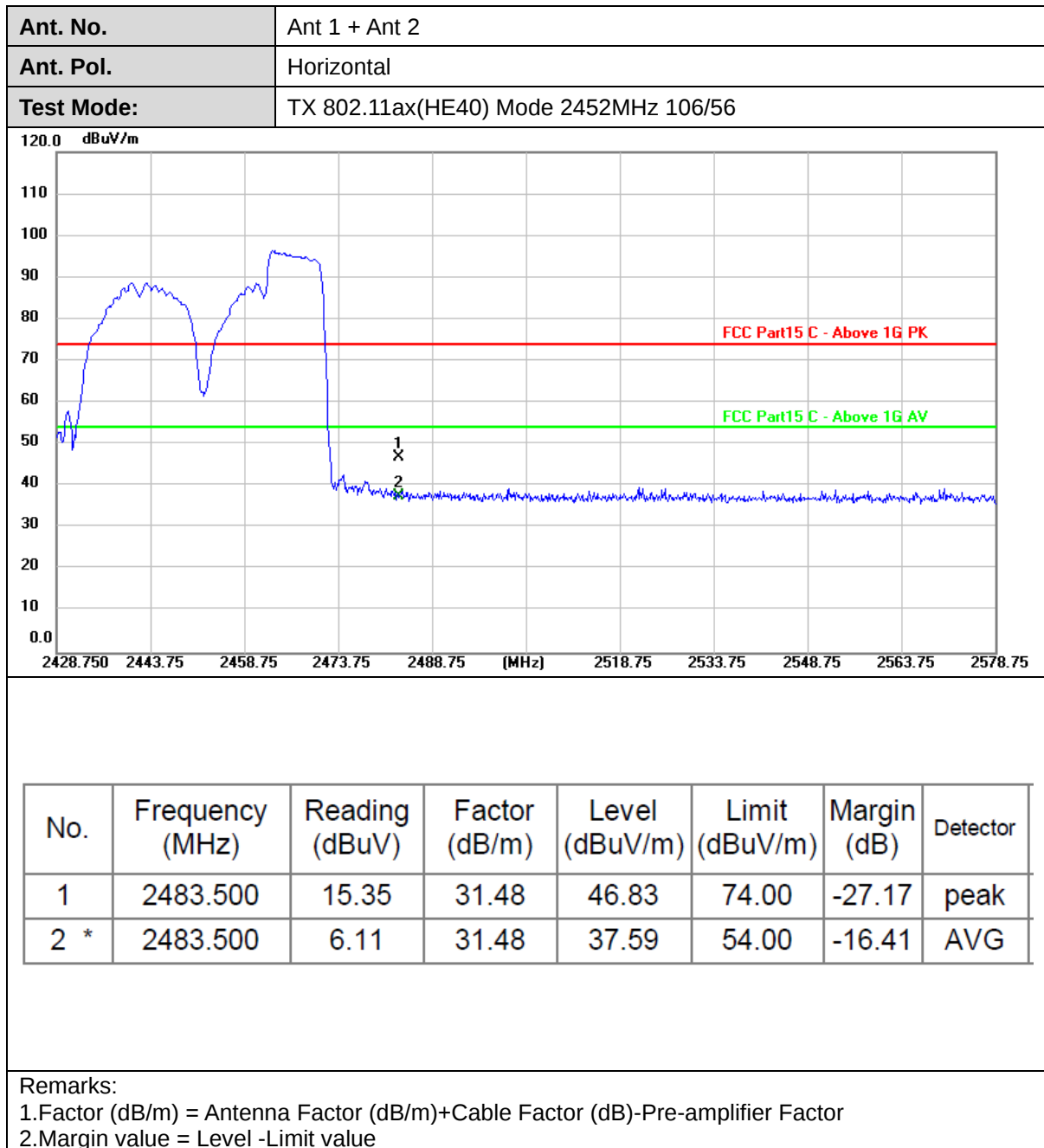


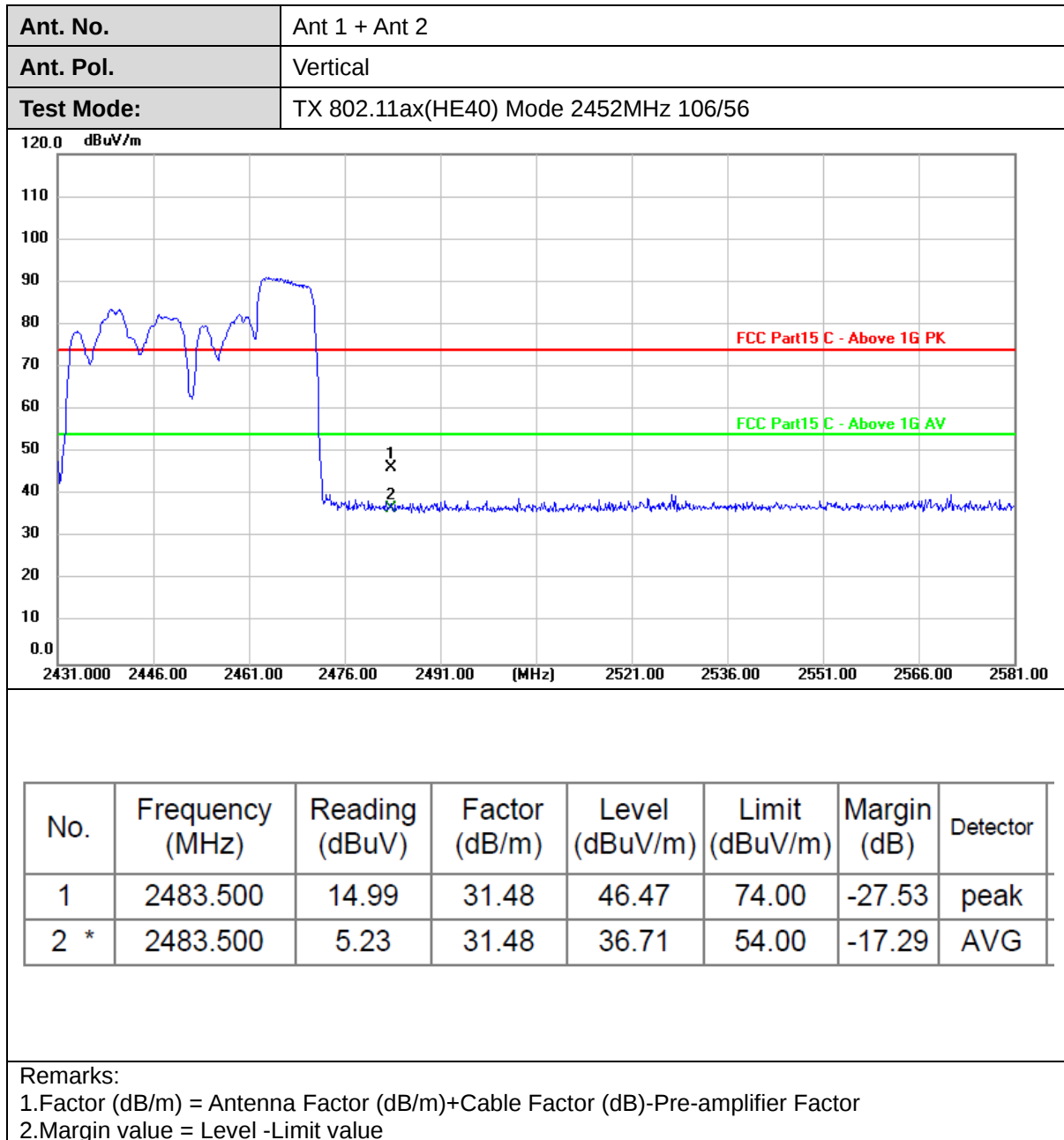


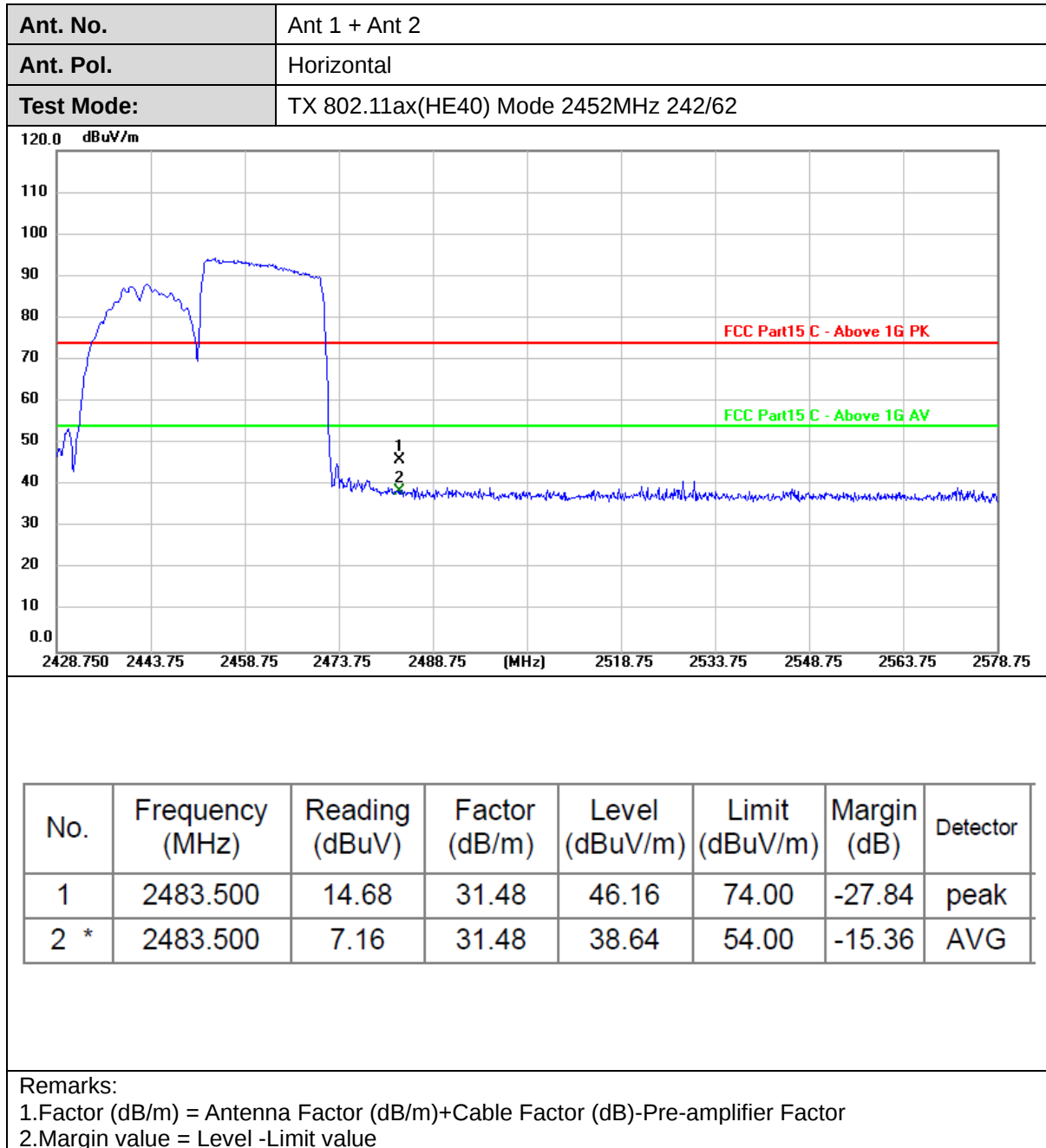


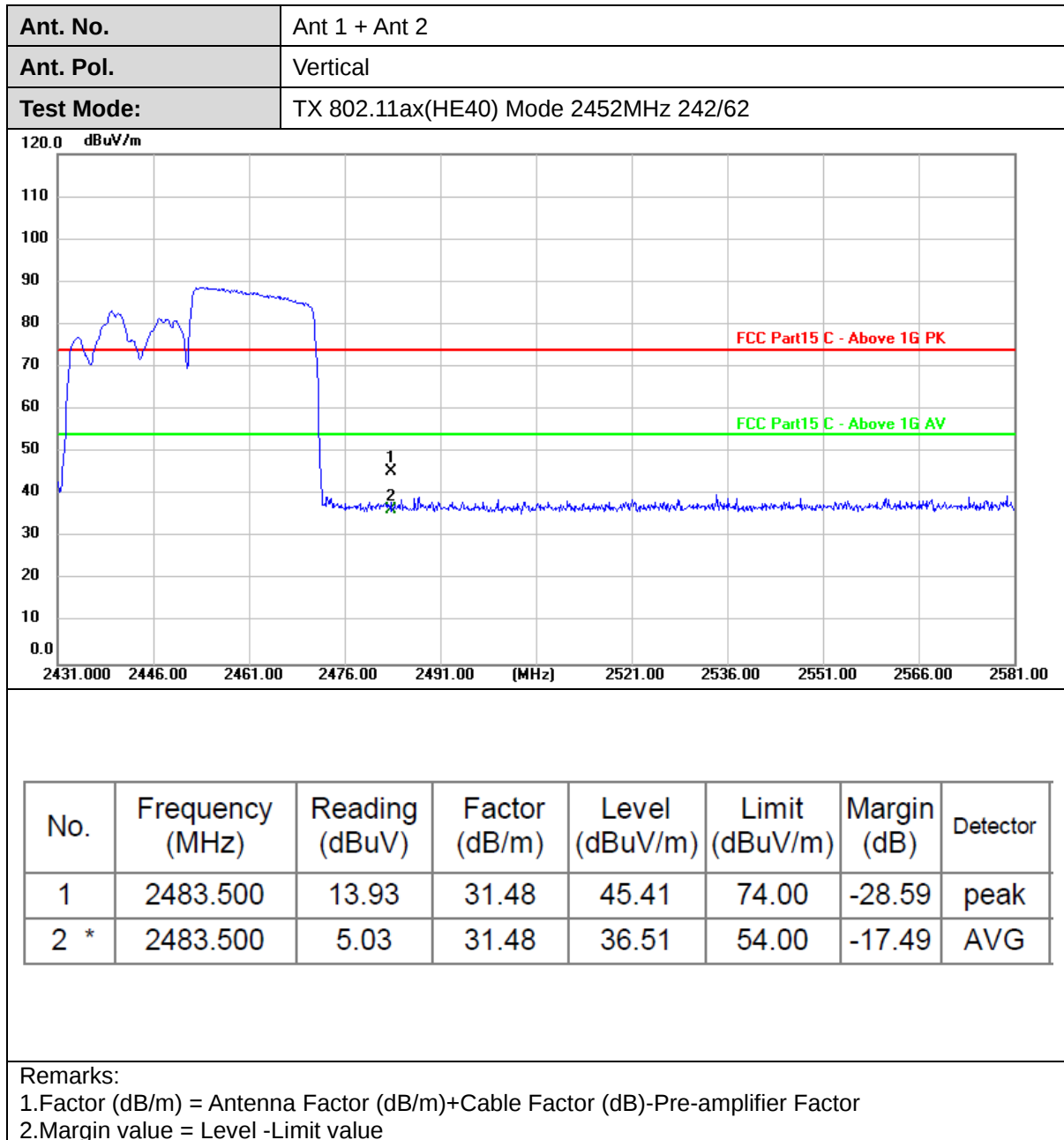


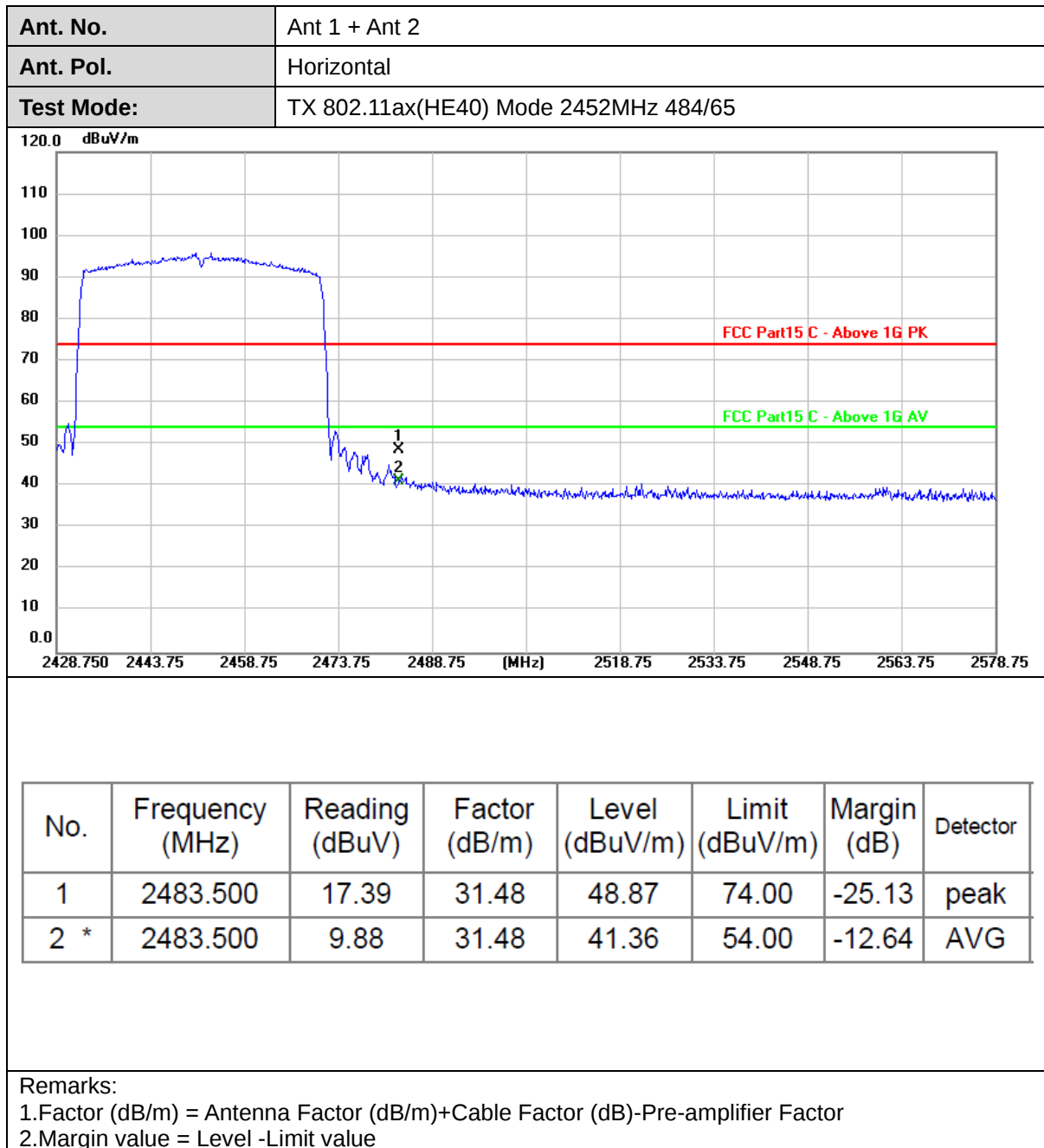


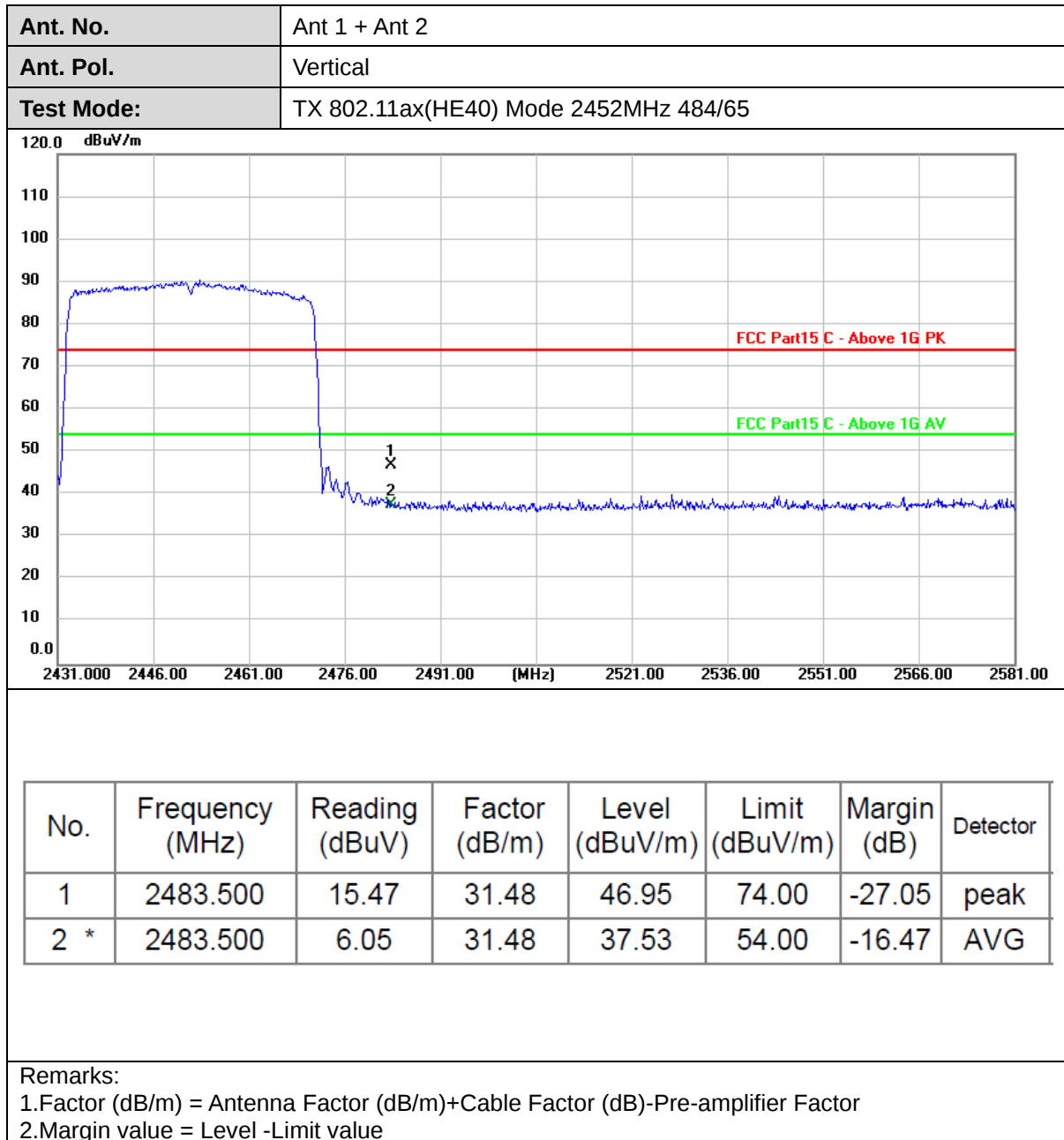














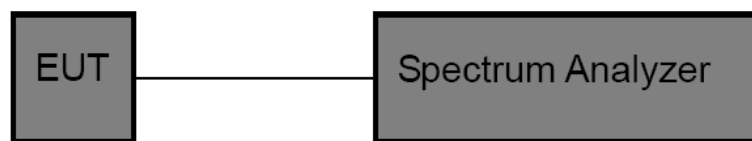
### 3.4. Band Edge and Spurious Emissions (Conducted)

#### Limit

##### **FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

#### Test Configuration



#### Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:  
RBW = 100 kHz, VBW  $\geq$  RBW, scan up through 10<sup>th</sup> harmonic.  
Sweep = auto, Detector function = peak, Trace = max hold.
4. Measure and record the results in the test report.

#### Test Mode

Please refer to the clause 2.4.

**Test Result****(1) Band Edge Conducted Test**

| TestMode  | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|----------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low    | 2412           | 9.34          | -39.37      | ≤-20.66    | PASS    |
|           | Ant2    | Low    | 2412           | 9.33          | -38.85      | ≤-20.67    | PASS    |
|           | Ant3    | Low    | 2412           | 9.61          | -38.67      | ≤-20.39    | PASS    |
|           | Ant4    | Low    | 2412           | 10.43         | -39.23      | ≤-19.57    | PASS    |
|           | Ant1    | High   | 2462           | 11.84         | -46.88      | ≤-18.16    | PASS    |
|           | Ant2    | High   | 2462           | 9.27          | -54.43      | ≤-20.73    | PASS    |
|           | Ant3    | High   | 2462           | 9.22          | -53.49      | ≤-20.78    | PASS    |
|           | Ant4    | High   | 2462           | 10.17         | -51.26      | ≤-19.83    | PASS    |
| 11G       | Ant1    | Low    | 2412           | 7.10          | -34.99      | ≤-22.9     | PASS    |
|           | Ant2    | Low    | 2412           | 6.59          | -35.13      | ≤-23.41    | PASS    |
|           | Ant3    | Low    | 2412           | 3.98          | -35.9       | ≤-26.02    | PASS    |
|           | Ant4    | Low    | 2412           | 6.80          | -35.67      | ≤-23.2     | PASS    |
|           | Ant1    | High   | 2462           | 6.15          | -48.08      | ≤-23.85    | PASS    |
|           | Ant2    | High   | 2462           | 5.79          | -50.16      | ≤-24.21    | PASS    |
|           | Ant3    | High   | 2462           | 6.76          | -48.86      | ≤-23.24    | PASS    |
|           | Ant4    | High   | 2462           | 3.79          | -49.78      | ≤-26.21    | PASS    |
| 11N20MIMO | Ant1    | Low    | 2412           | -0.98         | -32.9       | ≤-30.98    | PASS    |
|           | Ant2    | Low    | 2412           | -0.56         | -37.35      | ≤-30.56    | PASS    |
|           | Ant3    | Low    | 2412           | -2.47         | -44.18      | ≤-32.47    | PASS    |
|           | Ant4    | Low    | 2412           | -0.71         | -45.59      | ≤-30.71    | PASS    |
|           | Ant1    | High   | 2462           | 0.61          | -53.17      | ≤-29.39    | PASS    |
|           | Ant2    | High   | 2462           | -1.88         | -53.81      | ≤-31.88    | PASS    |
|           | Ant3    | High   | 2462           | -0.13         | -40.74      | ≤-30.13    | PASS    |
|           | Ant4    | High   | 2462           | -2.28         | -53.82      | ≤-32.28    | PASS    |
| 11N40MIMO | Ant1    | Low    | 2422           | -4.53         | -44.04      | ≤-34.53    | PASS    |
|           | Ant2    | Low    | 2422           | -2.07         | -38.21      | ≤-32.07    | PASS    |
|           | Ant3    | Low    | 2422           | -2.38         | -40.66      | ≤-32.38    | PASS    |
|           | Ant4    | Low    | 2422           | -2.41         | -42.74      | ≤-32.41    | PASS    |
|           | Ant1    | High   | 2452           | -3.42         | -51.08      | ≤-33.42    | PASS    |
|           | Ant2    | High   | 2452           | -2.52         | -34.22      | ≤-32.52    | PASS    |
|           | Ant3    | High   | 2452           | -3.18         | -46.03      | ≤-33.18    | PASS    |
|           | Ant4    | High   | 2452           | -2.40         | -45.54      | ≤-32.4     | PASS    |



| TestMode   | Antenna | ChName | Freq(MHz) | Ru Size | Ru Index | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|--------|-----------|---------|----------|----------------|--------------|-------------|---------|
| 11AX20MIMO | Ant1    | Low    | 2412      | 26Tone  | RU0      | 3.21           | -48.68       | ≤-26.79     | PASS    |
|            |         |        |           | 52Tone  | RU37     | 3.10           | -33.95       | ≤-26.9      | PASS    |
|            |         |        |           | 106Tone | RU53     | 0.57           | -47.58       | ≤-29.43     | PASS    |
|            |         |        |           | 242Tone | RU61     | -1.01          | -47.08       | ≤-31.01     | PASS    |
|            | Ant2    | Low    | 2412      | 26Tone  | RU0      | 4.34           | -35.26       | ≤-25.66     | PASS    |
|            |         |        |           | 52Tone  | RU37     | 3.82           | -45.35       | ≤-26.18     | PASS    |
|            |         |        |           | 106Tone | RU53     | -0.12          | -47.07       | ≤-30.12     | PASS    |
|            |         |        |           | 242Tone | RU61     | -1.18          | -47.2        | ≤-31.18     | PASS    |
|            | Ant3    | Low    | 2412      | 26Tone  | RU0      | 3.73           | -37.6        | ≤-26.27     | PASS    |
|            |         |        |           | 52Tone  | RU37     | 2.11           | -44.42       | ≤-27.89     | PASS    |
|            |         |        |           | 106Tone | RU53     | -0.30          | -48.46       | ≤-30.3      | PASS    |
|            |         |        |           | 242Tone | RU61     | -1.40          | -46.96       | ≤-31.4      | PASS    |
|            | Ant4    | Low    | 2412      | 26Tone  | RU0      | 4.35           | -48.33       | ≤-25.65     | PASS    |
|            |         |        |           | 52Tone  | RU37     | 2.80           | -46.32       | ≤-27.2      | PASS    |
|            |         |        |           | 106Tone | RU53     | 0.06           | -49.85       | ≤-29.94     | PASS    |
|            |         |        |           | 242Tone | RU61     | 1.21           | -44.05       | ≤-28.79     | PASS    |
|            | Ant1    | High   | 2462      | 26Tone  | RU8      | 4.89           | -53.58       | ≤-25.11     | PASS    |
|            |         |        |           | 52Tone  | RU40     | 1.78           | -54.13       | ≤-28.22     | PASS    |
|            |         |        |           | 106Tone | RU54     | -0.17          | -54.78       | ≤-30.17     | PASS    |
|            |         |        |           | 242Tone | RU61     | -1.51          | -54.66       | ≤-31.51     | PASS    |
|            | Ant2    | High   | 2462      | 26Tone  | RU8      | 2.54           | -39.2        | ≤-27.46     | PASS    |
|            |         |        |           | 52Tone  | RU40     | 0.21           | -47.97       | ≤-29.79     | PASS    |
|            |         |        |           | 106Tone | RU54     | -1.42          | -54.96       | ≤-31.42     | PASS    |
|            |         |        |           | 242Tone | RU61     | -1.39          | -49.65       | ≤-31.39     | PASS    |
|            | Ant3    | High   | 2462      | 26Tone  | RU8      | 2.57           | -44.48       | ≤-27.43     | PASS    |
|            |         |        |           | 52Tone  | RU40     | 1.59           | -51.67       | ≤-28.41     | PASS    |
|            |         |        |           | 106Tone | RU54     | -1.52          | -55.84       | ≤-31.52     | PASS    |
|            |         |        |           | 242Tone | RU61     | -1.17          | -51.85       | ≤-31.17     | PASS    |
|            | Ant4    | High   | 2462      | 26Tone  | RU8      | 3.34           | -35.88       | ≤-26.66     | PASS    |
|            |         |        |           | 52Tone  | RU40     | 0.87           | -42.37       | ≤-29.13     | PASS    |
|            |         |        |           | 106Tone | RU54     | -1.56          | -46.82       | ≤-31.56     | PASS    |
|            |         |        |           | 242Tone | RU61     | -1.38          | -38.43       | ≤-31.38     | PASS    |
| 11AX40MIMO | Ant1    | Low    | 2422      | 26Tone  | RU0      | 4.58           | -35.44       | ≤-25.42     | PASS    |
|            |         |        |           | 52Tone  | RU37     | 1.60           | -47.18       | ≤-28.4      | PASS    |
|            |         |        |           | 106Tone | RU53     | -1.01          | -32.93       | ≤-31.01     | PASS    |
|            |         |        |           | 242Tone | RU61     | -3.81          | -38.1        | ≤-33.81     | PASS    |
|            |         |        |           | 484Tone | RU65     | -3.09          | -48.55       | ≤-33.09     | PASS    |
|            | Ant2    | Low    | 2422      | 26Tone  | RU0      | 4.74           | -41.11       | ≤-25.26     | PASS    |
|            |         |        |           | 52Tone  | RU37     | 2.34           | -35.86       | ≤-27.66     | PASS    |
|            |         |        |           | 106Tone | RU53     | -1.14          | -42.6        | ≤-31.14     | PASS    |
|            |         |        |           | 242Tone | RU61     | -4.36          | -47.59       | ≤-34.36     | PASS    |
|            |         |        |           | 484Tone | RU65     | -3.20          | -43.92       | ≤-33.2      | PASS    |
|            | Ant3    | Low    | 2422      | 26Tone  | RU0      | 5.77           | -42          | ≤-24.23     | PASS    |
|            |         |        |           | 52Tone  | RU37     | 2.49           | -44.22       | ≤-27.51     | PASS    |
|            |         |        |           | 106Tone | RU53     | -0.55          | -45.34       | ≤-30.55     | PASS    |
|            |         |        |           | 242Tone | RU61     | -4.33          | -49.43       | ≤-34.33     | PASS    |
|            |         |        |           | 484Tone | RU65     | -3.22          | -47.57       | ≤-33.22     | PASS    |
|            | Ant4    | Low    | 2422      | 26Tone  | RU0      | 3.57           | -48.59       | ≤-26.43     | PASS    |
|            |         |        |           | 52Tone  | RU37     | 1.05           | -48.98       | ≤-28.95     | PASS    |
|            |         |        |           | 106Tone | RU53     | -2.35          | -50.29       | ≤-32.35     | PASS    |
|            |         |        |           | 242Tone | RU61     | -3.34          | -48.12       | ≤-33.34     | PASS    |
|            |         |        |           | 484Tone | RU65     | -3.08          | -48.81       | ≤-33.08     | PASS    |
|            | Ant1    | High   | 2452      | 26Tone  | RU17     | 4.71           | -30.24       | ≤-25.29     | PASS    |
|            |         |        |           | 52Tone  | RU44     | 0.59           | -55.17       | ≤-29.41     | PASS    |
|            |         |        |           | 106Tone | RU56     | -0.88          | -54.58       | ≤-30.88     | PASS    |
|            |         |        |           | 242Tone | RU62     | -3.90          | -54.94       | ≤-33.9      | PASS    |
|            |         |        |           | 484Tone | RU65     | -2.74          | -53.63       | ≤-32.74     | PASS    |
|            | Ant2    | High   | 2452      | 26Tone  | RU17     | 2.34           | -36.92       | ≤-27.66     | PASS    |
|            |         |        |           | 52Tone  | RU44     | -1.08          | -41.75       | ≤-31.08     | PASS    |
|            |         |        |           | 106Tone | RU56     | -1.79          | -41.29       | ≤-31.79     | PASS    |
|            |         |        |           | 242Tone | RU62     | -4.45          | -46.4        | ≤-34.45     | PASS    |
|            |         |        |           | 484Tone | RU65     | -3.32          | -40.31       | ≤-33.32     | PASS    |

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|  |      |      |      |         |      |       |        |               |      |
|--|------|------|------|---------|------|-------|--------|---------------|------|
|  | Ant3 | High | 2452 | 26Tone  | RU17 | 3.82  | -38.31 | $\leq -26.18$ | PASS |
|  |      |      |      | 52Tone  | RU44 | -0.48 | -44.62 | $\leq -30.48$ | PASS |
|  |      |      |      | 106Tone | RU56 | -1.90 | -42.44 | $\leq -31.9$  | PASS |
|  |      |      |      | 242Tone | RU62 | -3.58 | -49.84 | $\leq -33.58$ | PASS |
|  |      |      |      | 484Tone | RU65 | -3.88 | -43.88 | $\leq -33.88$ | PASS |
|  | Ant4 | High | 2452 | 26Tone  | RU17 | 4.39  | -49.51 | $\leq -25.61$ | PASS |
|  |      |      |      | 52Tone  | RU44 | 1.01  | -32.96 | $\leq -28.99$ | PASS |
|  |      |      |      | 106Tone | RU56 | -0.11 | -31.47 | $\leq -30.11$ | PASS |
|  |      |      |      | 242Tone | RU62 | -3.44 | -33.64 | $\leq -33.44$ | PASS |
|  |      |      |      | 484Tone | RU65 | -3.06 | -54.7  | $\leq -33.06$ | PASS |



## (2) Conducted Spurious Emissions Test

| TestMode | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B      | Ant1    | 2412           | Reference       | 10.38          | 10.38        | ---         | PASS    |
|          |         |                | 30~1000         | 10.38          | -57.3        | ≤-19.62     | PASS    |
|          |         |                | 1000~26500      | 10.38          | -43.99       | ≤-19.62     | PASS    |
|          | Ant2    | 2412           | Reference       | 10.24          | 10.24        | ---         | PASS    |
|          |         |                | 30~1000         | 10.24          | -57.15       | ≤-19.76     | PASS    |
|          |         |                | 1000~26500      | 10.24          | -49.48       | ≤-19.76     | PASS    |
|          | Ant3    | 2412           | Reference       | 9.26           | 9.26         | ---         | PASS    |
|          |         |                | 30~1000         | 9.26           | -58.16       | ≤-20.74     | PASS    |
|          |         |                | 1000~26500      | 9.26           | -43.13       | ≤-20.74     | PASS    |
|          | Ant4    | 2412           | Reference       | 10.49          | 10.49        | ---         | PASS    |
|          |         |                | 30~1000         | 10.49          | -58.21       | ≤-19.51     | PASS    |
|          |         |                | 1000~26500      | 10.49          | -43.29       | ≤-19.51     | PASS    |
|          | Ant1    | 2437           | Reference       | 10.64          | 10.64        | ---         | PASS    |
|          |         |                | 30~1000         | 10.64          | -57.43       | ≤-19.36     | PASS    |
|          |         |                | 1000~26500      | 10.64          | -44.39       | ≤-19.36     | PASS    |
|          | Ant2    | 2437           | Reference       | 9.83           | 9.83         | ---         | PASS    |
|          |         |                | 30~1000         | 9.83           | -58.07       | ≤-20.17     | PASS    |
|          |         |                | 1000~26500      | 9.83           | -51.44       | ≤-20.17     | PASS    |
|          | Ant3    | 2437           | Reference       | 10.21          | 10.21        | ---         | PASS    |
|          |         |                | 30~1000         | 10.21          | -58.36       | ≤-19.79     | PASS    |
|          |         |                | 1000~26500      | 10.21          | -44.64       | ≤-19.79     | PASS    |
|          | Ant4    | 2437           | Reference       | 10.00          | 10.00        | ---         | PASS    |
|          |         |                | 30~1000         | 10.00          | -57.34       | ≤-20        | PASS    |
|          |         |                | 1000~26500      | 10.00          | -43.88       | ≤-20        | PASS    |
|          | Ant1    | 2462           | Reference       | 12.44          | 12.44        | ---         | PASS    |
|          |         |                | 30~1000         | 12.44          | -58.58       | ≤-17.56     | PASS    |
|          |         |                | 1000~26500      | 12.44          | -42.47       | ≤-17.56     | PASS    |
|          | Ant2    | 2462           | Reference       | 9.29           | 9.29         | ---         | PASS    |
|          |         |                | 30~1000         | 9.29           | -58.33       | ≤-20.71     | PASS    |
|          |         |                | 1000~26500      | 9.29           | -51.23       | ≤-20.71     | PASS    |
|          | Ant3    | 2462           | Reference       | 9.64           | 9.64         | ---         | PASS    |
|          |         |                | 30~1000         | 9.64           | -58.72       | ≤-20.36     | PASS    |
|          |         |                | 1000~26500      | 9.64           | -46.47       | ≤-20.36     | PASS    |
|          | Ant4    | 2462           | Reference       | 10.66          | 10.66        | ---         | PASS    |
|          |         |                | 30~1000         | 10.66          | -57.64       | ≤-19.34     | PASS    |
|          |         |                | 1000~26500      | 10.66          | -43.77       | ≤-19.34     | PASS    |
| 11G      | Ant1    | 2412           | Reference       | 7.22           | 7.22         | ---         | PASS    |
|          |         |                | 30~1000         | 7.22           | -58.11       | ≤-22.78     | PASS    |
|          |         |                | 1000~26500      | 7.22           | -51.24       | ≤-22.78     | PASS    |
|          | Ant2    | 2412           | Reference       | 7.40           | 7.40         | ---         | PASS    |
|          |         |                | 30~1000         | 7.40           | -58.36       | ≤-22.6      | PASS    |
|          |         |                | 1000~26500      | 7.40           | -51.51       | ≤-22.6      | PASS    |
|          | Ant3    | 2412           | Reference       | 7.06           | 7.06         | ---         | PASS    |
|          |         |                | 30~1000         | 7.06           | -58.37       | ≤-22.94     | PASS    |
|          |         |                | 1000~26500      | 7.06           | -50.78       | ≤-22.94     | PASS    |
|          | Ant4    | 2412           | Reference       | 7.53           | 7.53         | ---         | PASS    |
|          |         |                | 30~1000         | 7.53           | -58.38       | ≤-22.47     | PASS    |
|          |         |                | 1000~26500      | 7.53           | -50.56       | ≤-22.47     | PASS    |
|          | Ant1    | 2437           | Reference       | 6.86           | 6.86         | ---         | PASS    |
|          |         |                | 30~1000         | 6.86           | -58.21       | ≤-23.14     | PASS    |
|          |         |                | 1000~26500      | 6.86           | -51.61       | ≤-23.14     | PASS    |
|          | Ant2    | 2437           | Reference       | 7.03           | 7.03         | ---         | PASS    |
|          |         |                | 30~1000         | 7.03           | -58.12       | ≤-22.97     | PASS    |
|          |         |                | 1000~26500      | 7.03           | -50.85       | ≤-22.97     | PASS    |
|          | Ant3    | 2437           | Reference       | 6.28           | 6.28         | ---         | PASS    |
|          |         |                | 30~1000         | 6.28           | -58.43       | ≤-23.72     | PASS    |
|          |         |                | 1000~26500      | 6.28           | -50.19       | ≤-23.72     | PASS    |
|          | Ant4    | 2437           | Reference       | 7.27           | 7.27         | ---         | PASS    |
|          |         |                | 30~1000         | 7.27           | -58.64       | ≤-22.73     | PASS    |
|          |         |                | 1000~26500      | 7.27           | -50.81       | ≤-22.73     | PASS    |
|          | Ant1    | 2462           | Reference       | 6.01           | 6.01         | ---         | PASS    |
|          |         |                | 30~1000         | 6.01           | -58.31       | ≤-23.99     | PASS    |

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|           |      |      |            |       |        |         |      |
|-----------|------|------|------------|-------|--------|---------|------|
|           | Ant2 | 2462 | 1000~26500 | 6.01  | -51.3  | ≤-23.99 | PASS |
|           |      |      | Reference  | 7.05  | 7.05   | ---     | PASS |
|           |      |      | 30~1000    | 7.05  | -58.21 | ≤-22.95 | PASS |
|           |      |      | 1000~26500 | 7.05  | -51.6  | ≤-22.95 | PASS |
|           | Ant3 | 2462 | Reference  | 5.86  | 5.86   | ---     | PASS |
|           |      |      | 30~1000    | 5.86  | -57.65 | ≤-24.14 | PASS |
|           |      |      | 1000~26500 | 5.86  | -50.61 | ≤-24.14 | PASS |
|           |      |      | Reference  | 6.90  | 6.90   | ---     | PASS |
|           | Ant4 | 2462 | 30~1000    | 6.90  | -58.84 | ≤-23.1  | PASS |
|           |      |      | 1000~26500 | 6.90  | -50.36 | ≤-23.1  | PASS |
|           |      |      | Reference  | -0.79 | -0.79  | ---     | PASS |
| 11N20MIMO | Ant1 | 2412 | 30~1000    | -0.79 | -58.43 | ≤-30.79 | PASS |
|           |      |      | 1000~26500 | -0.79 | -46.68 | ≤-30.79 | PASS |
|           |      |      | Reference  | 0.04  | 0.04   | ---     | PASS |
|           | Ant2 | 2412 | 30~1000    | 0.04  | -58.34 | ≤-29.96 | PASS |
|           |      |      | 1000~26500 | 0.04  | -51.52 | ≤-29.96 | PASS |
|           |      |      | Reference  | -0.19 | -0.19  | ---     | PASS |
|           | Ant3 | 2412 | 30~1000    | -0.19 | -57.89 | ≤-30.19 | PASS |
|           |      |      | 1000~26500 | -0.19 | -48.75 | ≤-30.19 | PASS |
|           |      |      | Reference  | 0.07  | 0.07   | ---     | PASS |
|           | Ant4 | 2412 | 30~1000    | 0.07  | -58.48 | ≤-29.93 | PASS |
|           |      |      | 1000~26500 | 0.07  | -50.55 | ≤-29.93 | PASS |
|           |      |      | Reference  | -0.50 | -0.50  | ---     | PASS |
|           | Ant1 | 2437 | 30~1000    | -0.50 | -58.1  | ≤-30.5  | PASS |
|           |      |      | 1000~26500 | -0.50 | -51.4  | ≤-30.5  | PASS |
|           |      |      | Reference  | -0.18 | -0.18  | ---     | PASS |
|           | Ant2 | 2437 | 30~1000    | -0.18 | -58.2  | ≤-30.18 | PASS |
|           |      |      | 1000~26500 | -0.18 | -49.53 | ≤-30.18 | PASS |
|           |      |      | Reference  | -0.07 | -0.07  | ---     | PASS |
|           | Ant3 | 2437 | 30~1000    | -0.07 | -58.28 | ≤-30.07 | PASS |
|           |      |      | 1000~26500 | -0.07 | -51.25 | ≤-30.07 | PASS |
|           |      |      | Reference  | -0.19 | -0.19  | ---     | PASS |
|           | Ant4 | 2437 | 30~1000    | -0.19 | -57.73 | ≤-30.19 | PASS |
|           |      |      | 1000~26500 | -0.19 | -51.16 | ≤-30.19 | PASS |
|           |      |      | Reference  | 0.75  | 0.75   | ---     | PASS |
|           | Ant1 | 2462 | 30~1000    | 0.75  | -58.41 | ≤-29.25 | PASS |
|           |      |      | 1000~26500 | 0.75  | -51.17 | ≤-29.25 | PASS |
|           |      |      | Reference  | -0.48 | -0.48  | ---     | PASS |
|           | Ant2 | 2462 | 30~1000    | -0.48 | -57.4  | ≤-30.48 | PASS |
|           |      |      | 1000~26500 | -0.48 | -50.59 | ≤-30.48 | PASS |
|           |      |      | Reference  | 0.00  | 0.00   | ---     | PASS |
|           | Ant3 | 2462 | 30~1000    | 0.00  | -58.65 | ≤-30    | PASS |
|           |      |      | 1000~26500 | 0.00  | -51.28 | ≤-30    | PASS |
|           |      |      | Reference  | -0.39 | -0.39  | ---     | PASS |
|           | Ant4 | 2462 | 30~1000    | -0.39 | -58.61 | ≤-30.39 | PASS |
|           |      |      | 1000~26500 | -0.39 | -50.81 | ≤-30.39 | PASS |
|           |      |      | Reference  | -3.80 | -3.80  | ---     | PASS |
| 11N40MIMO | Ant1 | 2422 | 30~1000    | -3.80 | -57.69 | ≤-33.8  | PASS |
|           |      |      | 1000~26500 | -3.80 | -51.26 | ≤-33.8  | PASS |
|           |      |      | Reference  | -2.64 | -2.64  | ---     | PASS |
|           | Ant2 | 2422 | 30~1000    | -2.64 | -58.76 | ≤-32.64 | PASS |
|           |      |      | 1000~26500 | -2.64 | -50.9  | ≤-32.64 | PASS |
|           |      |      | Reference  | -2.23 | -2.23  | ---     | PASS |
|           | Ant3 | 2422 | 30~1000    | -2.23 | -57.91 | ≤-32.23 | PASS |
|           |      |      | 1000~26500 | -2.23 | -51.21 | ≤-32.23 | PASS |
|           |      |      | Reference  | -2.01 | -2.01  | ---     | PASS |
|           | Ant4 | 2422 | 30~1000    | -2.01 | -57.63 | ≤-32.01 | PASS |
|           |      |      | 1000~26500 | -2.01 | -51.35 | ≤-32.01 | PASS |
|           |      |      | Reference  | -3.13 | -3.13  | ---     | PASS |
|           | Ant1 | 2437 | 30~1000    | -3.13 | -58.37 | ≤-33.13 | PASS |
|           |      |      | 1000~26500 | -3.13 | -50.1  | ≤-33.13 | PASS |
|           |      |      | Reference  | -2.63 | -2.63  | ---     | PASS |
|           | Ant2 | 2437 | 30~1000    | -2.63 | -58.37 | ≤-32.63 | PASS |
|           |      |      | 1000~26500 | -2.63 | -51.19 | ≤-32.63 | PASS |
|           |      |      | Reference  | -2.79 | -2.79  | ---     | PASS |
|           | Ant3 | 2437 | 30~1000    | -2.79 | -57.23 | ≤-32.79 | PASS |

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|  |      |      |            |       |        |               |      |
|--|------|------|------------|-------|--------|---------------|------|
|  | Ant4 | 2437 | 1000~26500 | -2.79 | -50.67 | $\leq -32.79$ | PASS |
|  |      |      | Reference  | -2.59 | -2.59  | ---           | PASS |
|  |      |      | 30~1000    | -2.59 | -58.26 | $\leq -32.59$ | PASS |
|  | Ant1 | 2452 | 1000~26500 | -2.59 | -50.03 | $\leq -32.59$ | PASS |
|  |      |      | Reference  | -2.79 | -2.79  | ---           | PASS |
|  |      |      | 30~1000    | -2.79 | -58.51 | $\leq -32.79$ | PASS |
|  | Ant2 | 2452 | 1000~26500 | -2.79 | -51.74 | $\leq -32.79$ | PASS |
|  |      |      | Reference  | -2.62 | -2.62  | ---           | PASS |
|  |      |      | 30~1000    | -2.62 | -57.54 | $\leq -32.62$ | PASS |
|  | Ant3 | 2452 | 1000~26500 | -2.62 | -50.13 | $\leq -32.62$ | PASS |
|  |      |      | Reference  | -2.65 | -2.65  | ---           | PASS |
|  |      |      | 30~1000    | -2.65 | -56.75 | $\leq -32.65$ | PASS |
|  | Ant4 | 2452 | 1000~26500 | -2.65 | -51.1  | $\leq -32.65$ | PASS |
|  |      |      | Reference  | -2.36 | -2.36  | ---           | PASS |
|  |      |      | 30~1000    | -2.36 | -57.42 | $\leq -32.36$ | PASS |
|  | Ant4 | 2452 | 1000~26500 | -2.36 | -50.87 | $\leq -32.36$ | PASS |



| TestMode   | Antenna | Freq(MHz) | Ru Size | Ru Index | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|-----------|---------|----------|-----------------|----------------|--------------|-------------|---------|
| 11AX20MIMO | Ant1    | 2412      | 242Tone | RU61     | Reference       | -1.04          | -1.04        | ---         | PASS    |
|            |         |           |         | RU61     | 30~1000         | -1.04          | -57.76       | ≤-21.04     | PASS    |
|            |         |           |         | RU61     | 1000~26500      | -1.04          | -51.25       | ≤-21.04     | PASS    |
|            | Ant2    | 2412      | 242Tone | RU61     | Reference       | -0.67          | -0.67        | ---         | PASS    |
|            |         |           |         | RU61     | 30~1000         | -0.67          | -58.00       | ≤-20.67     | PASS    |
|            |         |           |         | RU61     | 1000~26500      | -0.67          | -48.67       | ≤-20.67     | PASS    |
|            | Ant3    | 2412      | 242Tone | RU61     | Reference       | -0.73          | -0.73        | ---         | PASS    |
|            |         |           |         | RU61     | 30~1000         | -0.73          | -57.85       | ≤-20.73     | PASS    |
|            |         |           |         | RU61     | 1000~26500      | -0.73          | -51.01       | ≤-20.73     | PASS    |
|            | Ant4    | 2412      | 242Tone | RU61     | Reference       | 1.11           | 1.11         | ---         | PASS    |
|            |         |           |         | RU61     | 30~1000         | 1.11           | -58.36       | ≤-18.89     | PASS    |
|            |         |           |         | RU61     | 1000~26500      | 1.11           | -50.41       | ≤-18.89     | PASS    |
|            | Ant1    | 2437      | 242Tone | RU61     | Reference       | -0.57          | -0.57        | ---         | PASS    |
|            |         |           |         | RU61     | 30~1000         | -0.57          | -58.54       | ≤-20.57     | PASS    |
|            |         |           |         | RU61     | 1000~26500      | -0.57          | -51.41       | ≤-20.57     | PASS    |
|            | Ant2    | 2437      | 242Tone | RU61     | Reference       | -0.87          | -0.87        | ---         | PASS    |
|            |         |           |         | RU61     | 30~1000         | -0.87          | -57.77       | ≤-20.87     | PASS    |
|            |         |           |         | RU61     | 1000~26500      | -0.87          | -51.04       | ≤-20.87     | PASS    |
|            | Ant3    | 2437      | 242Tone | RU61     | Reference       | -0.86          | -0.86        | ---         | PASS    |
|            |         |           |         | RU61     | 30~1000         | -0.86          | -58.39       | ≤-20.86     | PASS    |
|            |         |           |         | RU61     | 1000~26500      | -0.86          | -50.57       | ≤-20.86     | PASS    |
|            | Ant4    | 2437      | 242Tone | RU61     | Reference       | -0.92          | -0.92        | ---         | PASS    |
|            |         |           |         | RU61     | 30~1000         | -0.92          | -57.12       | ≤-20.92     | PASS    |
|            |         |           |         | RU61     | 1000~26500      | -0.92          | -51.48       | ≤-20.92     | PASS    |
|            | Ant1    | 2462      | 242Tone | RU61     | Reference       | -0.34          | -0.34        | ---         | PASS    |
|            |         |           |         | RU61     | 30~1000         | -0.34          | -58.04       | ≤-20.34     | PASS    |
|            |         |           |         | RU61     | 1000~26500      | -0.34          | -50.77       | ≤-20.34     | PASS    |
|            | Ant2    | 2462      | 242Tone | RU61     | Reference       | -1.43          | -1.43        | ---         | PASS    |
|            |         |           |         | RU61     | 30~1000         | -1.43          | -58.12       | ≤-21.43     | PASS    |
|            |         |           |         | RU61     | 1000~26500      | -1.43          | -50.92       | ≤-21.43     | PASS    |
|            | Ant3    | 2462      | 242Tone | RU61     | Reference       | -1.25          | -1.25        | ---         | PASS    |
|            |         |           |         | RU61     | 30~1000         | -1.25          | -58.50       | ≤-21.25     | PASS    |
|            |         |           |         | RU61     | 1000~26500      | -1.25          | -51.43       | ≤-21.25     | PASS    |
|            | Ant4    | 2462      | 242Tone | RU61     | Reference       | -1.44          | -1.44        | ---         | PASS    |
|            |         |           |         | RU61     | 30~1000         | -1.44          | -58.17       | ≤-21.44     | PASS    |
|            |         |           |         | RU61     | 1000~26500      | -1.44          | -50.32       | ≤-21.44     | PASS    |
| 11AX40MIMO | Ant1    | 2422      | 484Tone | RU65     | Reference       | -3.30          | -3.30        | ---         | PASS    |
|            |         |           |         | RU65     | 30~1000         | -3.30          | -57.90       | ≤-23.3      | PASS    |
|            |         |           |         | RU65     | 1000~26500      | -3.30          | -51.13       | ≤-23.3      | PASS    |
|            | Ant2    | 2422      | 484Tone | RU65     | Reference       | -3.45          | -3.45        | ---         | PASS    |
|            |         |           |         | RU65     | 30~1000         | -3.45          | -57.59       | ≤-23.45     | PASS    |
|            |         |           |         | RU65     | 1000~26500      | -3.45          | -51.32       | ≤-23.45     | PASS    |
|            | Ant3    | 2422      | 484Tone | RU65     | Reference       | -3.06          | -3.06        | ---         | PASS    |
|            |         |           |         | RU65     | 30~1000         | -3.06          | -58.82       | ≤-23.06     | PASS    |
|            |         |           |         | RU65     | 1000~26500      | -3.06          | -50.60       | ≤-23.06     | PASS    |
|            | Ant4    | 2422      | 484Tone | RU65     | Reference       | -3.11          | -3.11        | ---         | PASS    |
|            |         |           |         | RU65     | 30~1000         | -3.11          | -57.53       | ≤-23.11     | PASS    |
|            |         |           |         | RU65     | 1000~26500      | -3.11          | -51.76       | ≤-23.11     | PASS    |
|            | Ant1    | 2437      | 484Tone | RU65     | Reference       | -2.77          | -2.77        | ---         | PASS    |
|            |         |           |         | RU65     | 30~1000         | -2.77          | -57.83       | ≤-22.77     | PASS    |
|            |         |           |         | RU65     | 1000~26500      | -2.77          | -50.94       | ≤-22.77     | PASS    |
|            | Ant2    | 2437      | 484Tone | RU65     | Reference       | -3.83          | -3.83        | ---         | PASS    |
|            |         |           |         | RU65     | 30~1000         | -3.83          | -58.60       | ≤-23.83     | PASS    |
|            |         |           |         | RU65     | 1000~26500      | -3.83          | -51.25       | ≤-23.83     | PASS    |
|            | Ant3    | 2437      | 484Tone | RU65     | Reference       | -3.37          | -3.37        | ---         | PASS    |
|            |         |           |         | RU65     | 30~1000         | -3.37          | -58.37       | ≤-23.37     | PASS    |
|            |         |           |         | RU65     | 1000~26500      | -3.37          | -51.23       | ≤-23.37     | PASS    |
|            | Ant4    | 2437      | 484Tone | RU65     | Reference       | -3.31          | -3.31        | ---         | PASS    |
|            |         |           |         | RU65     | 30~1000         | -3.31          | -55.80       | ≤-23.31     | PASS    |
|            |         |           |         | RU65     | 1000~26500      | -3.31          | -51.15       | ≤-23.31     | PASS    |
|            | Ant1    | 2452      | 484Tone | RU65     | Reference       | -2.96          | -2.96        | ---         | PASS    |
|            |         |           |         | RU65     | 30~1000         | -2.96          | -58.32       | ≤-22.96     | PASS    |
|            |         |           |         | RU65     | 1000~26500      | -2.96          | -51.39       | ≤-22.96     | PASS    |

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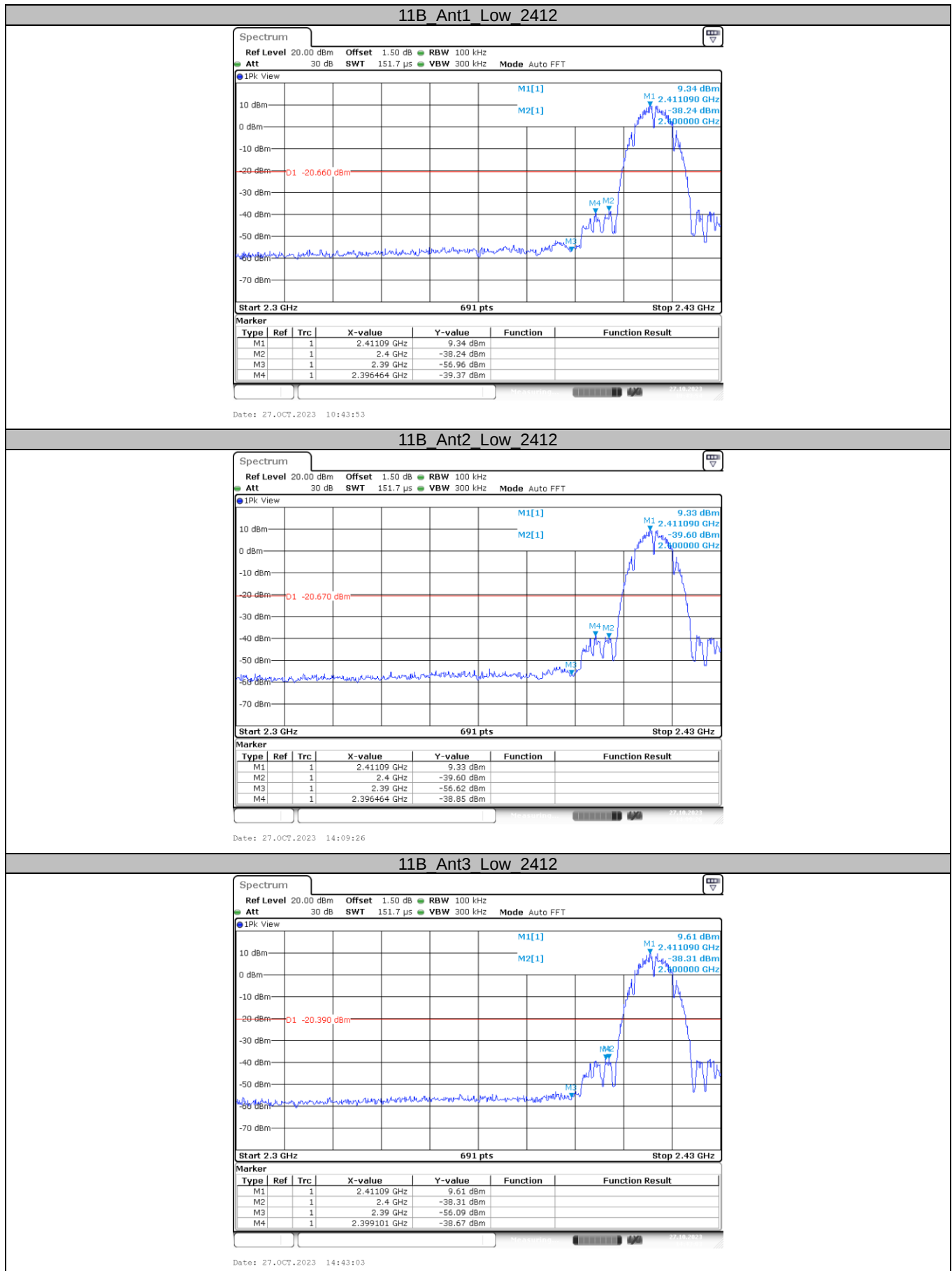
Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>



|  |      |      |         |      |            |       |        |               |      |
|--|------|------|---------|------|------------|-------|--------|---------------|------|
|  | Ant2 | 2452 | 484Tone | RU65 | Reference  | -3.26 | -3.26  | ---           | PASS |
|  |      |      |         | RU65 | 30~1000    | -3.26 | -58.09 | $\leq -23.26$ | PASS |
|  |      |      |         | RU65 | 1000~26500 | -3.26 | -51.39 | $\leq -23.26$ | PASS |
|  | Ant3 | 2452 | 484Tone | RU65 | Reference  | -3.25 | -3.25  | ---           | PASS |
|  |      |      |         | RU65 | 30~1000    | -3.25 | -57.77 | $\leq -23.25$ | PASS |
|  |      |      |         | RU65 | 1000~26500 | -3.25 | -50.70 | $\leq -23.25$ | PASS |
|  | Ant4 | 2452 | 484Tone | RU65 | Reference  | -3.51 | -3.51  | ---           | PASS |
|  |      |      |         | RU65 | 30~1000    | -3.51 | -58.65 | $\leq -23.51$ | PASS |
|  |      |      |         | RU65 | 1000~26500 | -3.51 | -50.93 | $\leq -23.51$ | PASS |



Test plot as follows:



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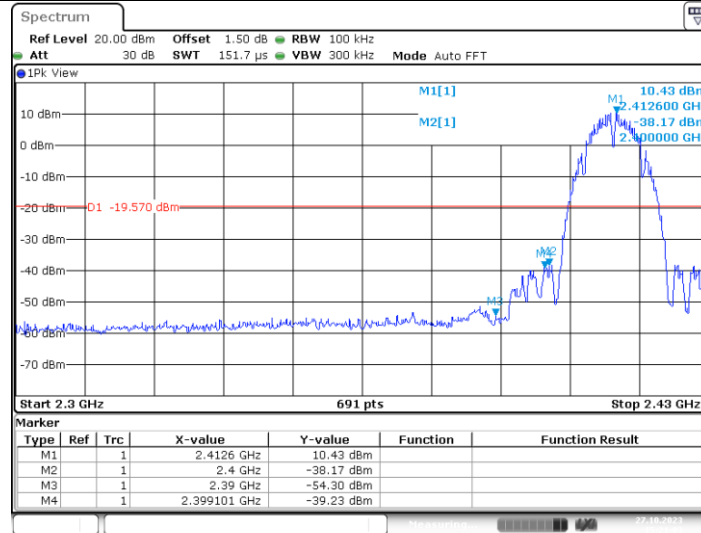
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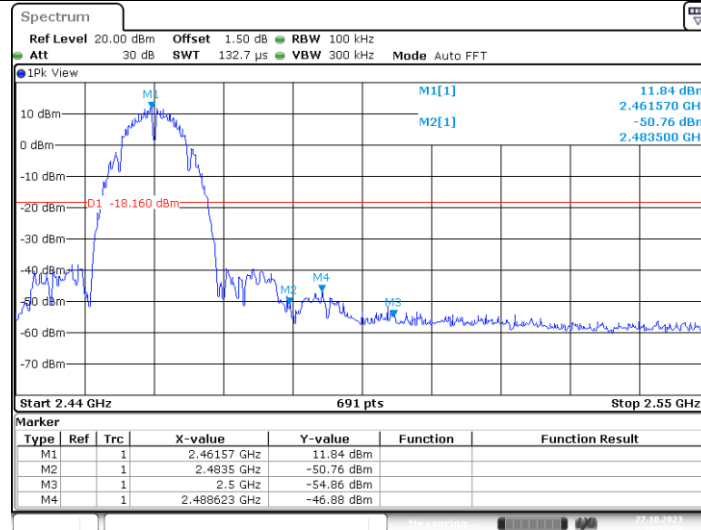


## 11B\_Ant4\_Low\_2412



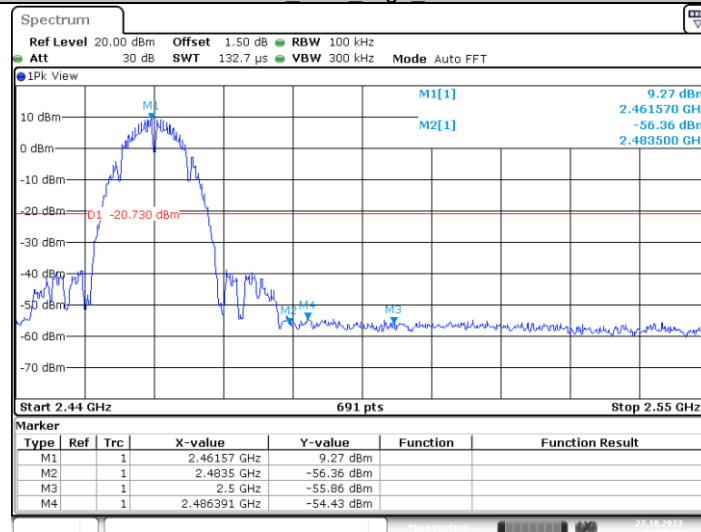
Date: 27.OCT.2023 15:21:03

## 11B\_Ant1\_High\_2462



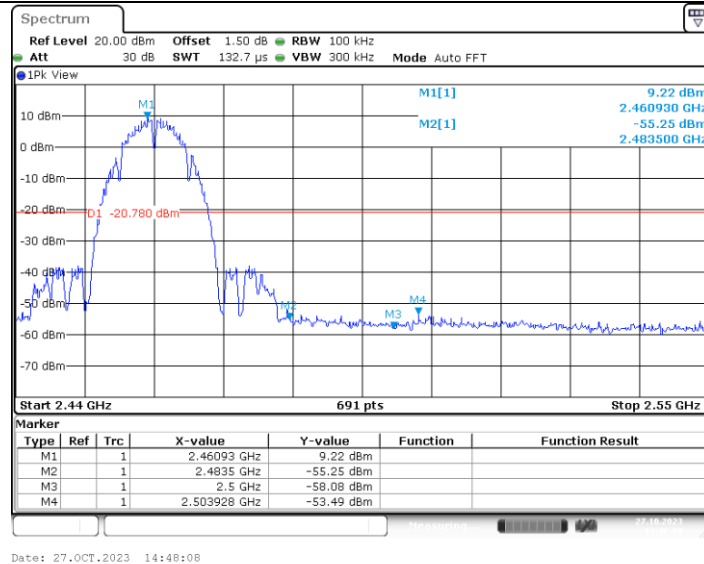
Date: 27.OCT.2023 10:57:58

## 11B\_Ant2\_High\_2462

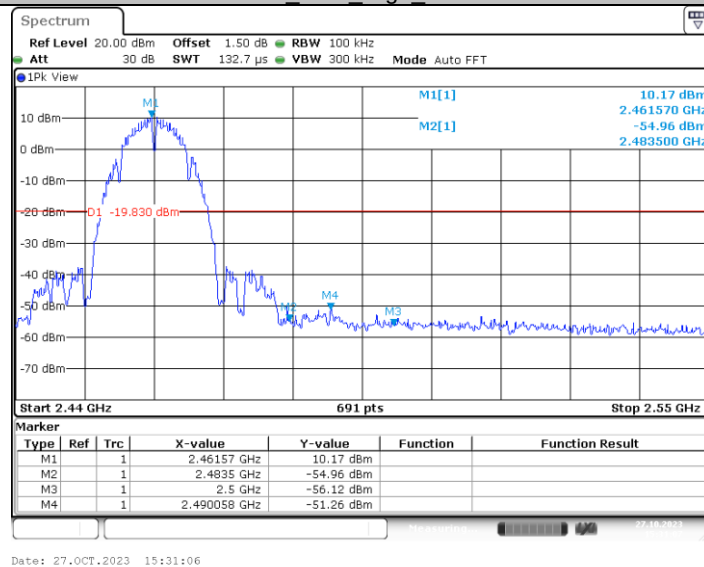


Date: 27.OCT.2023 14:16:55

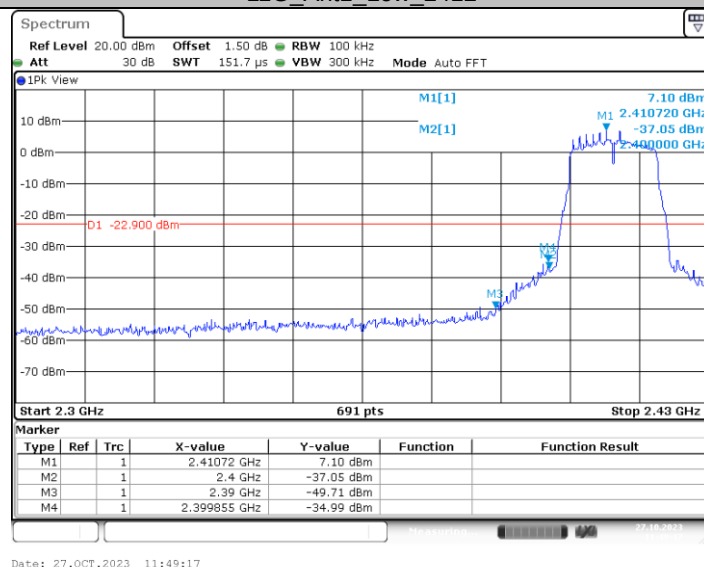
## 11B\_Ant3\_High\_2462



## 11B Ant4 High 2462



## 11G Ant1 Low 2412



## 11G Ant2 Low 2412