

# TEST REPORT

Applicant Name: INFINIX MOBILITY LIMITED  
Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT, Hong Kong  
Report Number: SZ1231213-75213E-RF-00F  
FCC ID: 2AIZN-X6871

**Test Standard (s)**  
FCC PART 15.407

## Sample Description

Product Type: Mobile Phone  
Model No.: X6871  
Multiple Model(s) No.: N/A  
Trade Mark: Infinix  
Date Received: 2024/01/17  
Issue Date: 2024/03/15

|              |       |
|--------------|-------|
| Test Result: | Pass▲ |
|--------------|-------|

▲ In the configuration tested, the EUT complied with the standards above.

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Michelle Zeng  
RF Engineer

**Approved By:**

*Nancy Wang*

Nancy Wang  
RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number           | Description of Revision | Date of Revision |
|-----------------|-------------------------|-------------------------|------------------|
| 0               | SZ1231213-75213E-RF-00F | Original Report         | 2024/03/15       |

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                                        |                                                                                                                                 |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Product                                | Mobile Phone                                                                                                                    |
| Tested Model                           | X6871                                                                                                                           |
| Multiple Model(s)                      | N/A                                                                                                                             |
| Frequency Range                        | 5G Wi-Fi: 5150-5250MHz; 5725-5850MHz                                                                                            |
| Mode                                   | 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80                                                                                   |
| Maximum Conducted Average Output Power | 5150-5250MHz: 15.00dBm<br>5725-5850MHz: 16.81dBm                                                                                |
| Modulation Technique                   | OFDM, OFDMA                                                                                                                     |
| Antenna Specification <sup>#</sup>     | -1.64dBi (ANT 1); -3.6dBi (ANT 2) (provided by the applicant)                                                                   |
| Voltage Range                          | DC 3.91V from battery or DC 5-11V from adapter                                                                                  |
| Sample serial number                   | 2F5J-5 for Conducted and Radiated Emissions Test<br>2F5J-1 for RF Conducted Test (Assigned by BACL, Shenzhen)                   |
| Sample/EUT Status                      | Good condition                                                                                                                  |
| Adapter Information                    | Model: U450XSB<br>Input: AC 100-240V~50/60Hz, 1.8A<br>Output: DC 5.0V, 3.0A, 15.0W or 5.0-10.0V, 1.5A or 11.0V, 4.1A, 45.0W MAX |

### Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB789033 D02 General U-NII Test Procedures New Rules v02r01.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

## Measurement Uncertainty

| Parameter                          |                             | Uncertainty                             |
|------------------------------------|-----------------------------|-----------------------------------------|
| Occupied Channel Bandwidth         |                             | ±5%                                     |
| RF Frequency                       |                             | 213.55 Hz(k=2, 95% level of confidence) |
| RF output power, conducted         |                             | 0.72 dB(k=2, 95% level of confidence)   |
| Unwanted Emission, conducted       |                             | 1.75 dB(k=2, 95% level of confidence)   |
| AC Power Lines Conducted Emissions | 9kHz-150kHz                 | 3.94dB(k=2, 95% level of confidence)    |
|                                    | 150kHz-30MHz                | 3.84dB(k=2, 95% level of confidence)    |
| Radiated Emissions                 | 9kHz - 30MHz                | 3.30dB(k=2, 95% level of confidence)    |
|                                    | 30MHz~200MHz (Horizontal)   | 4.48dB(k=2, 95% level of confidence)    |
|                                    | 30MHz~200MHz (Vertical)     | 4.55dB(k=2, 95% level of confidence)    |
|                                    | 200MHz~1000MHz (Horizontal) | 4.85dB(k=2, 95% level of confidence)    |
|                                    | 200MHz~1000MHz (Vertical)   | 5.05dB(k=2, 95% level of confidence)    |
|                                    | 1GHz - 6GHz                 | 5.35dB(k=2, 95% level of confidence)    |
|                                    | 6GHz - 18GHz                | 5.44dB(k=2, 95% level of confidence)    |
|                                    | 18GHz - 40GHz               | 5.16dB(k=2, 95% level of confidence)    |
| Temperature                        |                             | ±1°C                                    |
| Humidity                           |                             | ±1%                                     |
| Supply voltages                    |                             | ±0.4%                                   |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40/ac vht80/ax HE20/ax HE40/ax HE80, the 802.11 n ht20/n ht40 were reduced since the identical parameters with 802.11ac vht20 and vht40.

For 5150-5250MHz Band, 7 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 36      | 5180            | 44      | 5220            |
| 38      | 5190            | 46      | 5230            |
| 40      | 5200            | 48      | 5240            |
| 42      | 5210            | /       | /               |

For 802.11a/ac20/ax20 mode: channel 36, 40, 48 were tested;

For 802.11ac40/ax40 mode: channel 38, 46 were tested;

For 802.11ac80/ax80 mode, channel 42 was tested.

For 5725-5850MHz Band, 8 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 149     | 5745            | 157     | 5785            |
| 151     | 5755            | 159     | 5795            |
| 153     | 5765            | 161     | 5805            |
| 155     | 5775            | 165     | 5825            |

For 802.11a/ac20/ax20 mode: channel 149, 157, 165 were tested;

For 802.11ac40/ax40 mode: channel 151, 159 were tested;

For 802.11ac80/ax80 mode, channel 155 was tested.

## EUT Exercise Software

EUT was testing in engineering mode and power level as below. The power level was provided by the applicant. The device was tested with the worst case was performed as below:

5150-5250 MHz Band:

| Test Mode  | Data rate | RU Size | RU Index | ANT1_Power Level <sup>#</sup> |                |              | ANT2_Power Level <sup>#</sup> |                |              |
|------------|-----------|---------|----------|-------------------------------|----------------|--------------|-------------------------------|----------------|--------------|
|            |           |         |          | Low Channel                   | Middle Channel | High Channel | Low Channel                   | Middle Channel | High Channel |
| 802.11a    | 6 Mbps    | NA      | NA       | 15.5                          | 15.5           | 15.5         | 15.5                          | 15.5           | 15.5         |
| 802.11ac20 | MCS0      | NA      | NA       | 13.5                          | 13.5           | 13.5         | 13.5                          | 13.5           | 13.5         |
| 802.11ac40 | MCS0      | NA      | NA       | 13.5                          | /              | 13.5         | 13.5                          | /              | 13.5         |
| 802.11ac80 | MCS0      | NA      | NA       | /                             | 13.5           | /            | /                             | 13.5           | /            |
| 802.11ax20 | MCS0      | 26Tone  | RU0      | 8.5                           | 8.5            | 8.5          | 8.5                           | 8.5            | 8.5          |
|            |           | 52Tone  | RU37     | 9.5                           | 9.5            | 9.5          | 9.5                           | 9.5            | 9.5          |
|            |           | 106Tone | RU53     | 11.5                          | 11.5           | 11.5         | 11.5                          | 11.5           | 11.5         |
|            |           | 242Tone | RU61     | 13.5                          | 13.5           | 13.5         | 13.5                          | 13.5           | 13.5         |
| 802.11ax40 | MCS0      | 26Tone  | RU0      | 7                             | /              | 7            | 7                             | /              | 7            |
|            |           | 52Tone  | RU37     | 8.5                           | /              | 8.5          | 8.5                           | /              | 8.5          |
|            |           | 106Tone | RU53     | 9.5                           | /              | 9.5          | 9.5                           | /              | 9.5          |
|            |           | 242Tone | RU61     | 9.5                           | /              | 9.5          | 9.5                           | /              | 9.5          |
|            |           | 484Tone | RU65     | 13.5                          | /              | 13.5         | 13.5                          | /              | 13.5         |
| 802.11ax80 | MCS0      | 26Tone  | RU0      | /                             | 6.5            | /            | /                             | 6.5            | /            |
|            |           | 52Tone  | RU37     | /                             | 7.5            | /            | /                             | 7.5            | /            |
|            |           | 106Tone | RU53     | /                             | 8.5            | /            | /                             | 8.5            | /            |
|            |           | 242Tone | RU61     | /                             | 9.5            | /            | /                             | 9.5            | /            |
|            |           | 484Tone | RU65     | /                             | 11.5           | /            | /                             | 11.5           | /            |
|            |           | 996Tone | RU67     | /                             | 13.5           | /            | /                             | 13.5           | /            |

5725-5850 MHz Band:

| Test Mode  | Data rate | RU Size | RU Index | ANT1_Power Level <sup>#</sup> |                |              | ANT2_Power Level <sup>#</sup> |                |              |
|------------|-----------|---------|----------|-------------------------------|----------------|--------------|-------------------------------|----------------|--------------|
|            |           |         |          | Low Channel                   | Middle Channel | High Channel | Low Channel                   | Middle Channel | High Channel |
| 802.11a    | 6 Mbps    | NA      | NA       | 10                            | 10             | 10           | 18                            | 18             | 18           |
| 802.11ac20 | MCS0      | NA      | NA       | 10                            | 10             | 10           | 10                            | 10             | 10           |
| 802.11ac40 | MCS0      | NA      | NA       | 11                            | /              | 11           | 11                            | /              | 11           |
| 802.11ac80 | MCS0      | NA      | NA       | /                             | 11             | /            | /                             | 11             | /            |
| 802.11ax20 | MCS0      | 26Tone  | RU0      | 7                             | 7              | 7            | 7                             | 7              | 7            |
|            |           | 52Tone  | RU37     | 8                             | 8              | 8            | 8                             | 8              | 8            |
|            |           | 106Tone | RU53     | 9                             | 9              | 9            | 9                             | 9              | 9            |
|            |           | 242Tone | RU61     | 10                            | 10             | 10           | 10                            | 10             | 10           |
| 802.11ax40 | MCS0      | 26Tone  | RU0      | 6                             | /              | 6            | 6                             | /              | 6            |
|            |           | 52Tone  | RU37     | 7                             | /              | 7            | 7                             | /              | 7            |
|            |           | 106Tone | RU53     | 8                             | /              | 8            | 8                             | /              | 8            |
|            |           | 242Tone | RU61     | 9                             | /              | 9            | 9                             | /              | 9            |
|            |           | 484Tone | RU65     | 10                            | /              | 10           | 10                            | /              | 10           |
| 802.11ax80 | MCS0      | 26Tone  | RU0      | /                             | 6              | /            | /                             | 6              | /            |
|            |           | 52Tone  | RU37     | /                             | 7              | /            | /                             | 7              | /            |
|            |           | 106Tone | RU53     | /                             | 8              | /            | /                             | 8              | /            |
|            |           | 242Tone | RU61     | /                             | 9              | /            | /                             | 9              | /            |
|            |           | 484Tone | RU65     | /                             | 10             | /            | /                             | 10             | /            |
|            |           | 996Tone | RU67     | /                             | 11             | /            | /                             | 11             | /            |

Note:

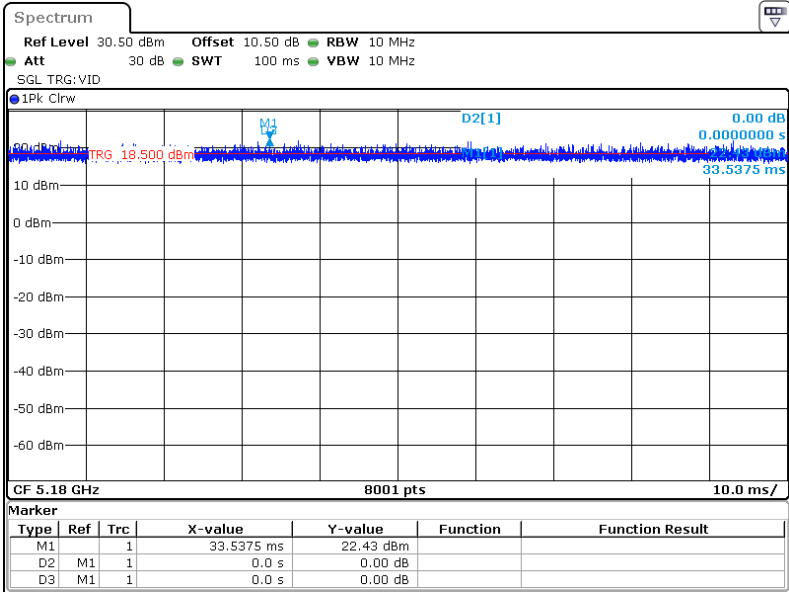
1. The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.
2. According to the manufacturer, for 802.11 a mode, the device only support SISO mode.
3. According to the manufacturer, for 802.11 n/ac/ax mode, the device supports SISO and MIMO in all modes, per pretest, the MIMO mode was the worst mode for all the modes.

### Duty cycle

| Test Modes     | Ton (ms) | Ton+off (ms) | Duty cycle (%) | Duty Cycle Factor (dB) | 1/T (Hz) | VBW Setting (Hz) |
|----------------|----------|--------------|----------------|------------------------|----------|------------------|
| 802.11a        | 100      | 100          | 100.00         | /                      | /        | 10.00            |
| 802.11ac vht20 | 100      | 100          | 100.00         | /                      | /        | 10.00            |
| 802.11ac vht40 | 100      | 100          | 100.00         | /                      | /        | 10.00            |
| 802.11ac vht80 | 100      | 100          | 100.00         | /                      | /        | 10.00            |

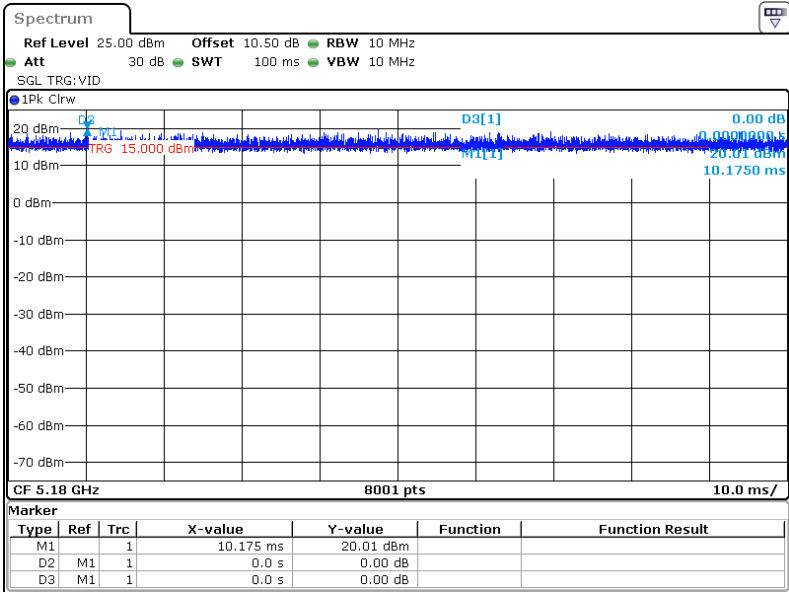
The test data of 802.11ax modes please refer to the Appendix.

802.11a



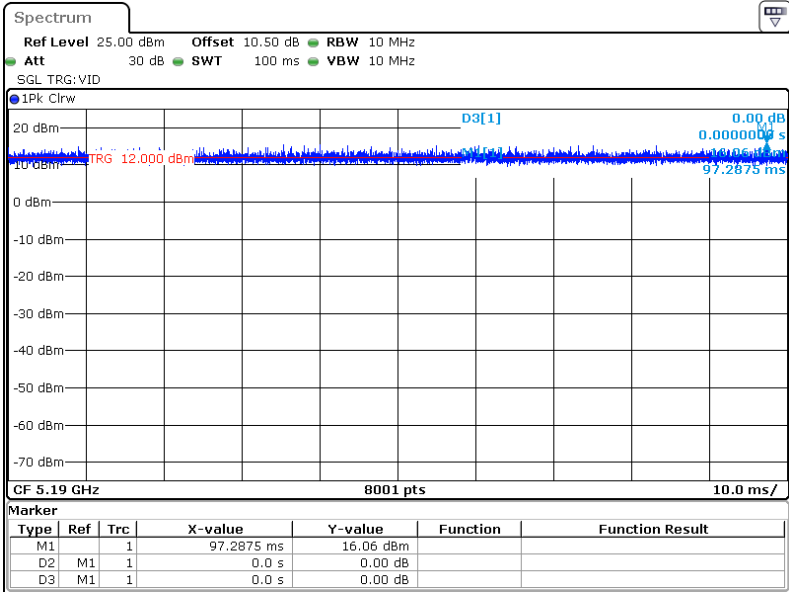
ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan  
Date: 27.FEB.2024 16:39:24

802.11ac 20



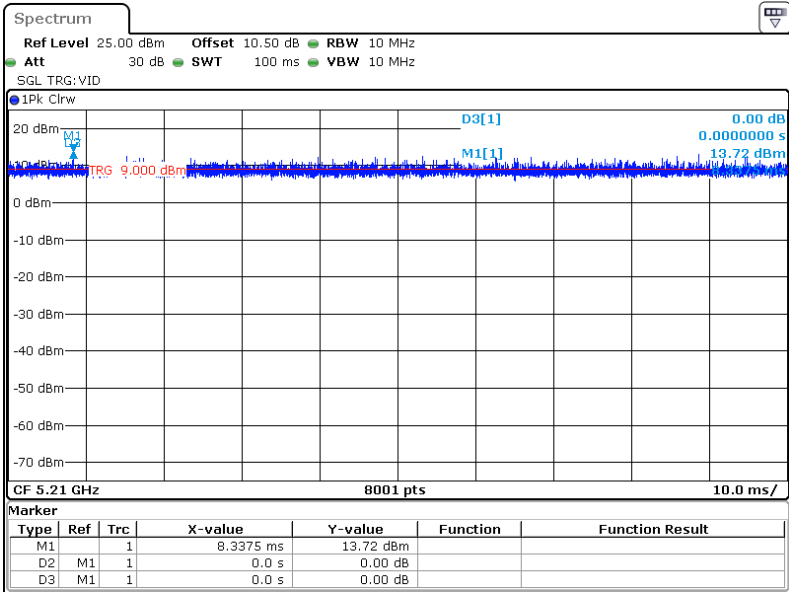
ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan  
Date: 27.FEB.2024 17:06:38

802.11ac 40



ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan  
Date: 28.FEB.2024 09:04:57

802.11ac 80



ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan  
Date: 28.FEB.2024 09:19:46

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

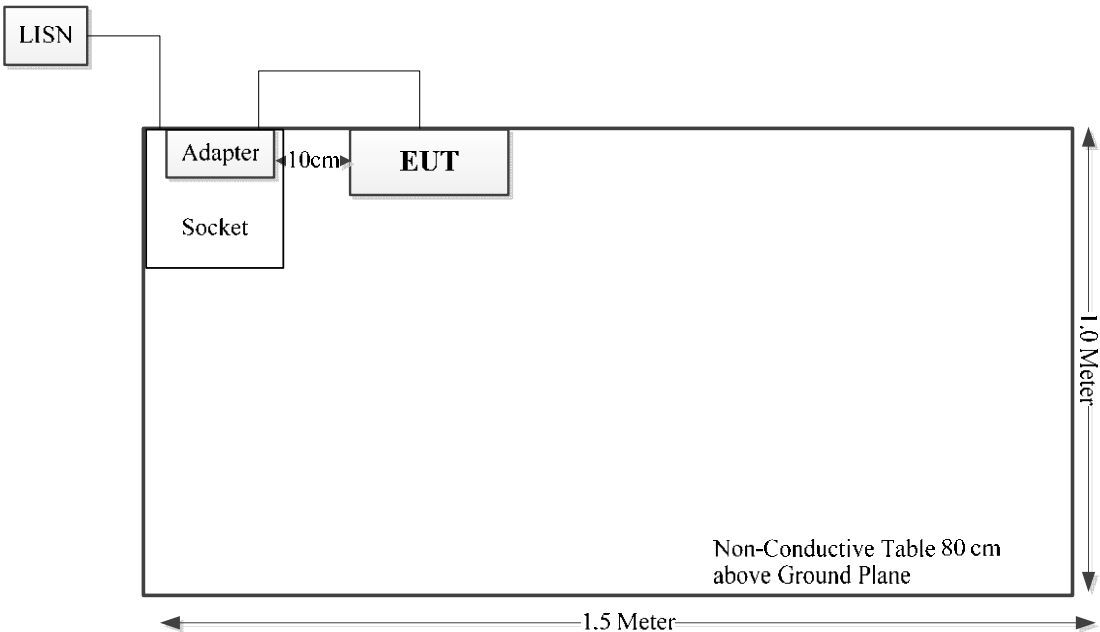
| Manufacturer | Description | Model   | Serial Number |
|--------------|-------------|---------|---------------|
| Unknown      | Socket      | Unknown | Unknown       |

External I/O Cable

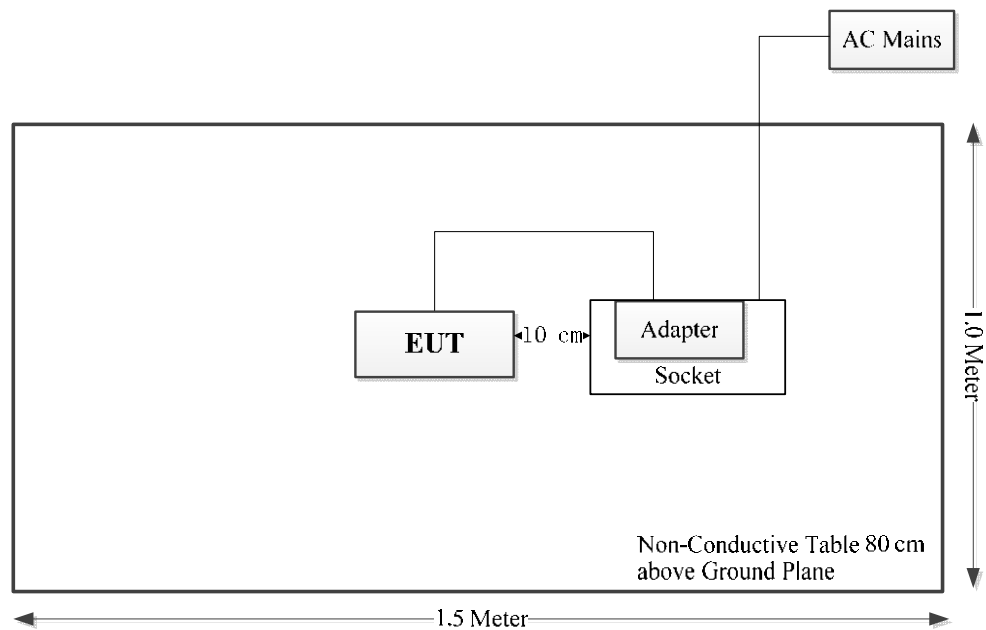
| Cable Description                 | Length (m) | From Port | To           |
|-----------------------------------|------------|-----------|--------------|
| Un-shielding Detachable USB Cable | 1.0        | EUT       | Adapter      |
| Unshielded Un-detachable AC Cable | 1.5        | Socket    | LISN/AC Main |

Block Diagram of Test Setup

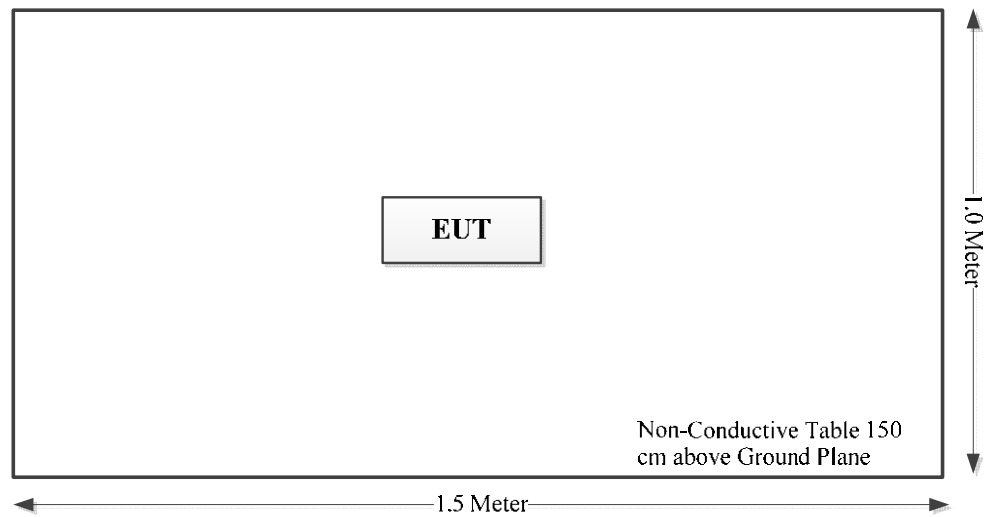
For Conducted Emissions:



Spurious emissions below 1GHz:



Spurious emissions above 1GHz:



**SUMMARY OF TEST RESULTS**

| FCC Rules                       | Description of Test                      | Result         |
|---------------------------------|------------------------------------------|----------------|
| §1.1307 (b) (1) & §2.1093       | RF Exposure                              | Compliant      |
| §15.203                         | Antenna Requirement                      | Compliant      |
| §15.407(b)(9)& §15.207(a)       | Conducted Emissions                      | Compliant      |
| §15.205& §15.209<br>&§15.407(b) | Undesirable Emission& Restricted Bands   | Compliant      |
| §15.407(a) (e)                  | 26 dB Emission Bandwidth & 6dB Bandwidth | Compliant      |
| §15.407(a)                      | Conducted Transmitter Output Power       | Compliant      |
| §15.407 (a)                     | Power Spectral Density                   | Compliant      |
| §15.407 (h)                     | Transmit Power Control (TPC)             | Not Applicable |
| §15.407 (h)                     | Dynamic Frequency Selection (DFS)        | Not Applicable |

Not Applicable –The supplier declared that the equipment has no this function.

**TEST EQUIPMENT LIST**

| Manufacturer                   | Description                  | Model                   | Serial Number          | Calibration Date | Calibration Due Date |
|--------------------------------|------------------------------|-------------------------|------------------------|------------------|----------------------|
| <b>Conducted Emission Test</b> |                              |                         |                        |                  |                      |
| Rohde & Schwarz                | EMI Test Receiver            | ESCI                    | 101120                 | 2023/02/08       | 2024/02/07           |
| Rohde & Schwarz                | LISN                         | ENV216                  | 101613                 | 2023/02/08       | 2024/02/07           |
| Rohde & Schwarz                | Transient Limiter            | ESH3Z2                  | DE25985                | 2023/08/03       | 2024/08/02           |
| Unknown                        | CE Cable                     | CE Cable                | UF A210B-1-0720-504504 | 2023/08/03       | 2024/08/02           |
| Audix                          | EMI Test software            | E3                      | 191218                 | NCR              | NCR                  |
| <b>Radiated Emission Test</b>  |                              |                         |                        |                  |                      |
| R&S                            | EMI Test Receiver            | ESR3                    | 102455                 | 2024/01/16       | 2025/01/15           |
| Sonoma instrument              | Pre-amplifier                | 310 N                   | 186238                 | 2023/06/08       | 2024/06/07           |
| Sunol Sciences                 | Broadband Antenna            | JB1                     | A040904-1              | 2023/07/20       | 2024/07/19           |
| ETS                            | Passive Loop Antenna         | 6512                    | 29604                  | 2023/07/07       | 2024/07/06           |
| Unknown                        | Cable                        | Chamber Cable 1         | F-03-EM236             | 2023/08/03       | 2024/08/02           |
| Unknown                        | Cable                        | Chamber Cable 4         | EC-007                 | 2023/08/03       | 2024/08/02           |
| Rohde & Schwarz                | Spectrum Analyzer            | FSV40                   | 101605                 | 2023/04/18       | 2024/04/17           |
| COM-POWER                      | Pre-amplifier                | PA-122                  | 181919                 | 2023/06/29       | 2024/06/28           |
| Schwarzbeck                    | Horn Antenna                 | BBHA9120D(1201)         | 1143                   | 2023/07/26       | 2024/07/25           |
| Unknown                        | RF Cable                     | KMSE                    | 0735                   | 2023/10/08       | 2024/10/07           |
| Unknown                        | RF Cable                     | UFA147                  | 219661                 | 2023/10/08       | 2024/10/07           |
| SNSD                           | 5G Band Reject filter        | BSF5150-5850MN-0899-004 | 5G filter              | 2023/08/03       | 2024/08/02           |
| A.H.System                     | Pre-amplifier                | PAM-1840VH              | 190                    | 2023/08/03       | 2024/08/02           |
| Electro-Mechanics              | Horn Antenna                 | 3116                    | 9510-2270              | 2023/09/18       | 2026/09/17           |
| Audix                          | EMI Test software            | E3                      | 191218(V9)             | NCR              | NCR                  |
| <b>RF Conducted Test</b>       |                              |                         |                        |                  |                      |
| Tonscend                       | RF control Unit              | JS0806-2                | 19D8060154             | 2023/09/06       | 2024/09/05           |
| Agilent                        | USB wideband power sensor    | U2021XA                 | MY52350001             | 2023/06/08       | 2024/06/07           |
| Rohde & Schwarz                | Signal and Spectrum Analyzer | FSV40                   | 101473                 | 2024/01/16       | 2025/01/15           |
| R&S                            | spectrum analyzer            | FSV40                   | 101942                 | 2023/12/18       | 2024/12/17           |
| Unknown                        | 10dB Attenuator              | Unknown                 | F-03-EM190             | 2023/07/04       | 2024/07/03           |

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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**FCC§1.1307 (b) (1) & §2.1093 – RF EXPOSURE**

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**Applicable Standard**

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

- a) According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

1.  $f(\text{GHz})$  is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test Exclusion.

**Measurement Result**

For Wi-Fi mode, please refer to SAR report: Please refer to SAR test report: SZ1231213-75213E-SA.

## **FCC §15.203 – ANTENNA REQUIREMENT**

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### **Applicable Standard**

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.407 (a), if the transmitting antennas of directional gain greater than 6dBi are used, the transmit power and power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **Antenna Connector Construction**

The EUT has two internal antennas which was permanently attached, and the maximum antenna gain<sup>#</sup> is -1.64dBi(ANT 1); -3.6dBi (ANT 2), fulfill the requirement of this section. Please refer to the EUT photos.

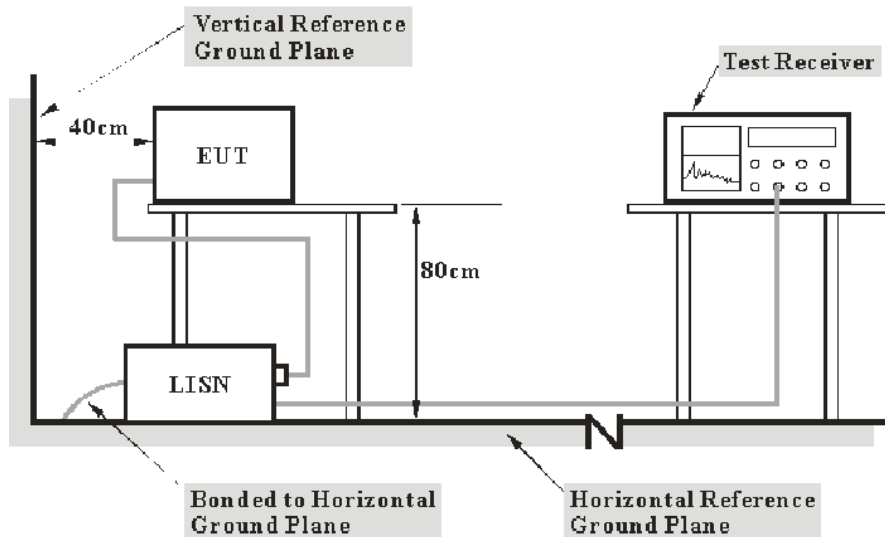
### **Result: Compliant**

## FCC §15.407 (b) (6) §15.207 (a) – CONDUCTED EMISSIONS

### Applicable Standard

FCC §15.207, §15.407(b) (6)

### EUT Setup



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

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range  | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz  |

### Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and Average detection mode.

## Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

## Test Data

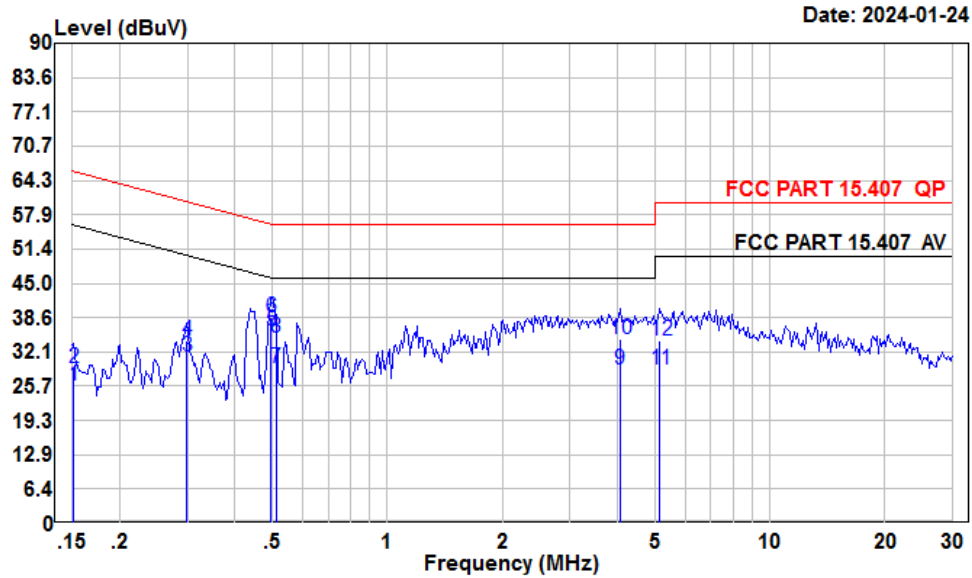
### Environmental Conditions

|                    |         |
|--------------------|---------|
| Temperature:       | 25 °C   |
| Relative Humidity: | 54 %    |
| ATM Pressure:      | 101 kPa |

*The testing was performed by Macy Shi on 2024-01-24.*

*EUT operation mode: Transmitting (Maximum output power mode, 802.11 a, 5825MHz, ANT2)*

## AC 120V/60 Hz, Line



Condition: Line

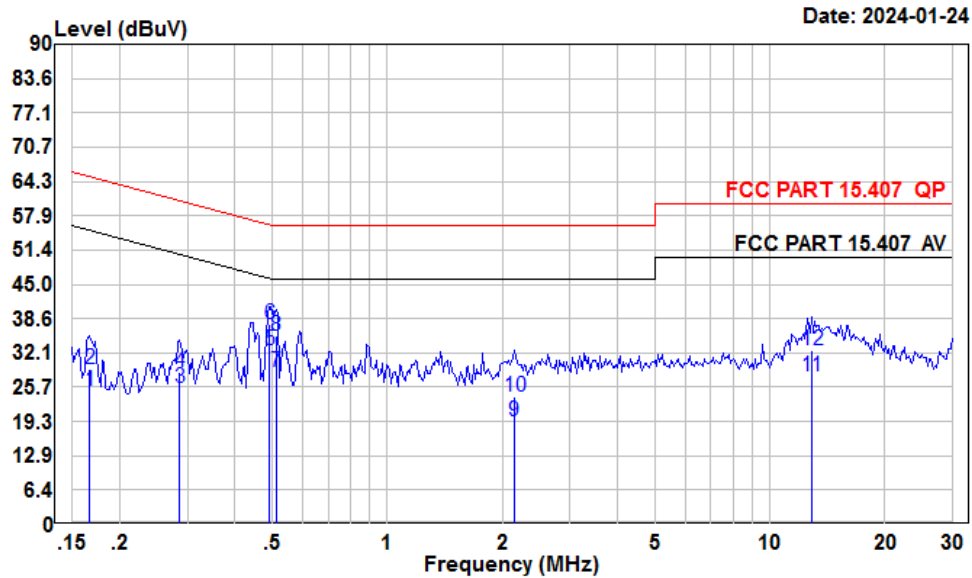
Project : SZ1231213-75213E-RF

Tester : Macy shi

Note : 5G WIFI

|    | Freq | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|----|------|------------|------------|-------------|------------|------------|------------|---------|
|    | MHz  | dBuV       | dBuV       | dB          | dB         | dBuV       | dB         |         |
| 1  | 0.15 | 4.99       | 25.74      | 10.60       | 10.15      | 55.91      | -30.17     | Average |
| 2  | 0.15 | 8.23       | 28.98      | 10.60       | 10.15      | 65.91      | -36.93     | QP      |
| 3  | 0.30 | 10.45      | 31.21      | 10.64       | 10.12      | 50.28      | -19.07     | Average |
| 4  | 0.30 | 13.38      | 34.14      | 10.64       | 10.12      | 60.28      | -26.14     | QP      |
| 5  | 0.50 | 15.21      | 36.06      | 10.70       | 10.15      | 46.05      | -9.99      | Average |
| 6  | 0.50 | 17.75      | 38.60      | 10.70       | 10.15      | 56.05      | -17.45     | QP      |
| 7  | 0.51 | 8.16       | 29.02      | 10.70       | 10.16      | 46.00      | -16.98     | Average |
| 8  | 0.51 | 13.88      | 34.74      | 10.70       | 10.16      | 56.00      | -21.26     | QP      |
| 9  | 4.05 | 8.00       | 28.86      | 10.60       | 10.26      | 46.00      | -17.14     | Average |
| 10 | 4.05 | 13.69      | 34.55      | 10.60       | 10.26      | 56.00      | -21.45     | QP      |
| 11 | 5.17 | 7.87       | 28.78      | 10.69       | 10.22      | 50.00      | -21.22     | Average |
| 12 | 5.17 | 13.29      | 34.20      | 10.69       | 10.22      | 60.00      | -25.80     | QP      |

## AC 120V/60 Hz, Neutral



Condition: Neutral  
Project : SZ1231213-75213E-RF  
Tester : Macy shi  
Note : 5G WIFI

|    | Freq  | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|----|-------|------------|------------|-------------|------------|------------|------------|---------|
|    | MHz   | dBuV       | dBuV       | dB          | dB         | dBuV       | dB         |         |
| 1  | 0.17  | 4.23       | 24.95      | 10.57       | 10.15      | 55.12      | -30.17     | Average |
| 2  | 0.17  | 8.43       | 29.15      | 10.57       | 10.15      | 65.12      | -35.97     | QP      |
| 3  | 0.29  | 4.67       | 25.55      | 10.74       | 10.14      | 50.63      | -25.08     | Average |
| 4  | 0.29  | 7.61       | 28.49      | 10.74       | 10.14      | 60.63      | -32.14     | QP      |
| 5  | 0.49  | 11.60      | 32.56      | 10.80       | 10.16      | 46.14      | -13.58     | Average |
| 6  | 0.49  | 16.51      | 37.47      | 10.80       | 10.16      | 56.14      | -18.67     | QP      |
| 7  | 0.51  | 7.52       | 28.46      | 10.78       | 10.16      | 46.00      | -17.54     | Average |
| 8  | 0.51  | 14.53      | 35.47      | 10.78       | 10.16      | 56.00      | -20.53     | QP      |
| 9  | 2.14  | -1.56      | 19.34      | 10.70       | 10.20      | 46.00      | -26.66     | Average |
| 10 | 2.14  | 3.00       | 23.90      | 10.70       | 10.20      | 56.00      | -32.10     | QP      |
| 11 | 12.85 | 6.94       | 27.72      | 10.61       | 10.17      | 50.00      | -22.28     | Average |
| 12 | 12.85 | 11.93      | 32.71      | 10.61       | 10.17      | 60.00      | -27.29     | QP      |

## §15.205 & §15.209 & §15.407(B)– UNDESIRABLE EMISSION

### Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

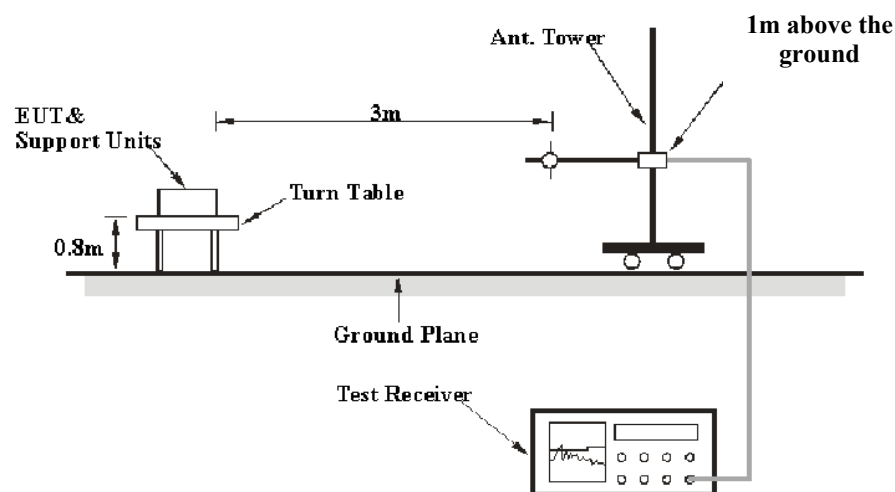
(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

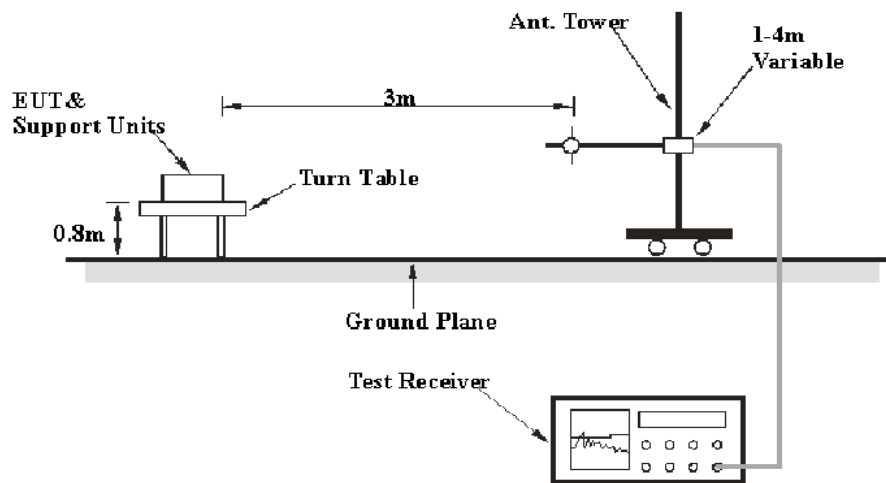
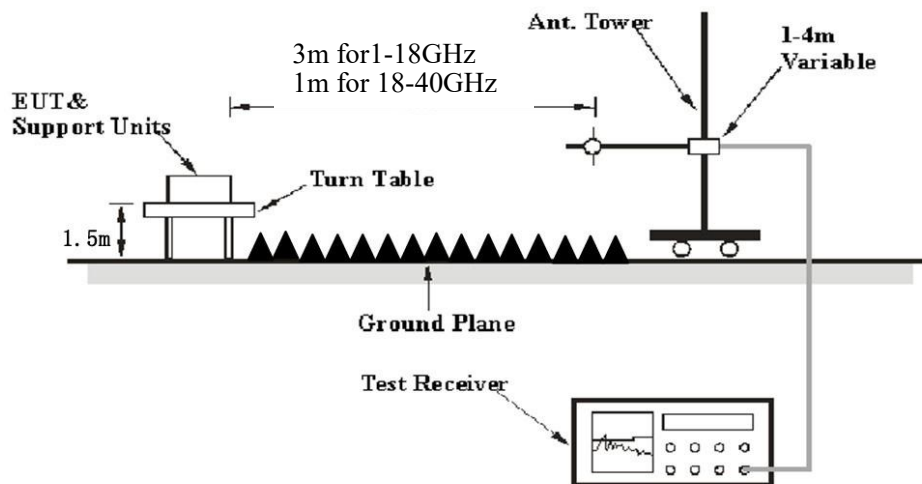
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
  - (i) All emissions shall be limited to a level of  $-27$  dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

### EUT Setup

9 kHz-30MHz:



**30MHz-1GHz:****Above 1 GHz:**

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

## EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9 kHz-1GHz:

| Frequency Range   | RBW     | Video B/W | IF B/W  | Measurement |
|-------------------|---------|-----------|---------|-------------|
| 9 kHz – 150 kHz   | /       | /         | 200 Hz  | QP          |
|                   | 300 Hz  | 1 kHz     | /       | PK          |
| 150 kHz – 30 MHz  | /       | /         | 9 kHz   | QP          |
|                   | 10 kHz  | 30 kHz    | /       | PK          |
| 30 MHz – 1000 MHz | /       | /         | 120 kHz | QP          |
|                   | 100 kHz | 300 kHz   | /       | PK          |

1-40GHz:

| Measurement | Duty cycle | RBW  | Video B/W  |
|-------------|------------|------|------------|
| PK          | Any        | 1MHz | 3 MHz      |
| AV          | >98%       | 1MHz | 10 Hz      |
|             | <98%       | 1MHz | $\geq 1/T$ |

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

## Test Procedure

### Radiated Spurious Emission

During the radiated emission test, the adapter was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all the installation combinations.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

According to ANSI C63.10-2013,9.4: For field strength measurements made at other than the distance at which the applicable limit is specified, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). In some cases, a different distance correction factor may be required;

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log \left( \frac{d_{\text{Meas}}}{d_{\text{SpecLimit}}} \right)$$

where

|                        |                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------|
| $E_{\text{SpecLimit}}$ | is the field strength of the emission at the distance specified by the limit, in dB $\mu$ V/m |
| $E_{\text{Meas}}$      | is the field strength of the emission at the measurement distance, in dB $\mu$ V/m            |
| $d_{\text{Meas}}$      | is the measurement distance, in m                                                             |
| $d_{\text{SpecLimit}}$ | is the distance specified by the limit, in m                                                  |

So the extrapolation factor of 1m is  $20 \cdot \log(1/3) = -9.5$  dB, for 18-40GHz range, the limit of 1m distance was added by 9.5dB from limit of 3m to compared with the result measurement at 1m distance.

### Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit} &= \text{Level} - \text{Limit}; \text{Margin} = \text{Limit} - \text{Corrected Amplitude} \\ \text{Level / Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

### Test Data

#### Environmental Conditions

|                           |            |
|---------------------------|------------|
| <b>Temperature:</b>       | 23~24.5 °C |
| <b>Relative Humidity:</b> | 50~55 %    |
| <b>ATM Pressure:</b>      | 101 kPa    |

*The testing was performed by Warren Huang on 2024-01-20 for below 1GHz and Zenos Qiao and Dylan Yang from 2024-01-27 to 2024-03-07 for above 1GHz.*

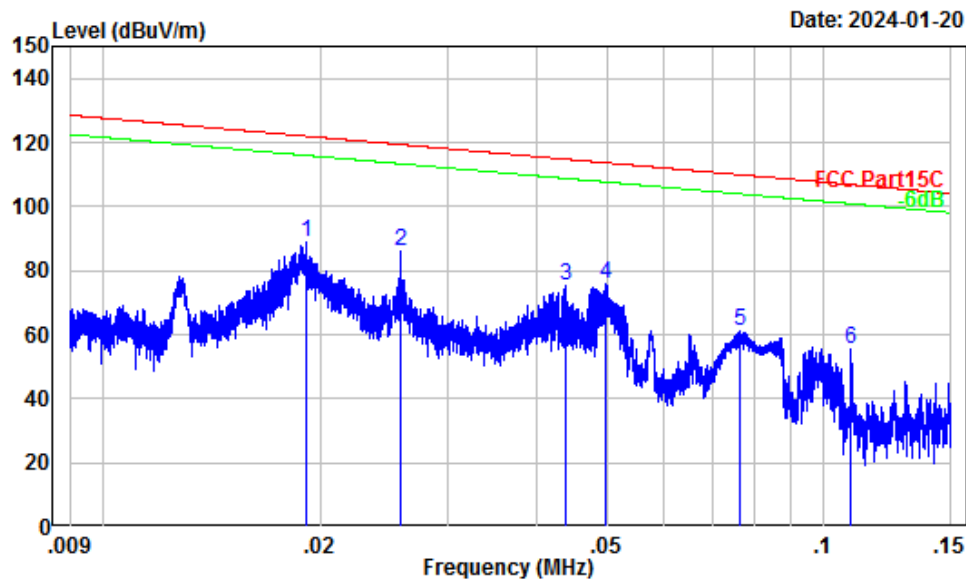
*EUT operation mode: Transmitting*

*Note: Pre-scan in the X, Y and Z axes of orientation, the worst case Y-axis of orientation was recorded.*

9 kHz-30MHz: (Maximum output power mode, 802.11 a, 5825MHz, ANT2)

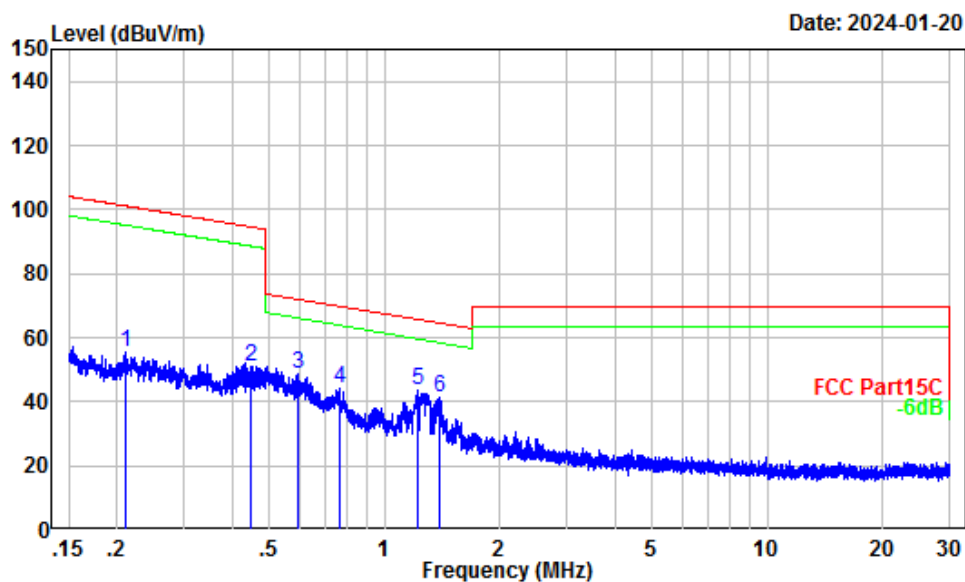
Note: When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.

Parallel (worst case)



Site : chamber  
Condition : 3m  
Project Number: SZ1231213-75213E-RF  
Note : 5G WIFI  
Tester : Warren Huang

|   | Freq | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|------|--------|------------|--------|------------|------------|--------|
|   | MHz  | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 0.02 | 50.50  | 38.55      | 89.05  | 121.96     | -32.91     | Peak   |
| 2 | 0.03 | 48.44  | 37.65      | 86.09  | 119.36     | -33.27     | Peak   |
| 3 | 0.04 | 42.93  | 32.31      | 75.24  | 114.79     | -39.55     | Peak   |
| 4 | 0.05 | 41.04  | 34.67      | 75.71  | 113.64     | -37.93     | Peak   |
| 5 | 0.08 | 37.36  | 23.55      | 60.91  | 109.94     | -49.03     | Peak   |
| 6 | 0.11 | 33.67  | 22.02      | 55.69  | 106.86     | -51.17     | Peak   |

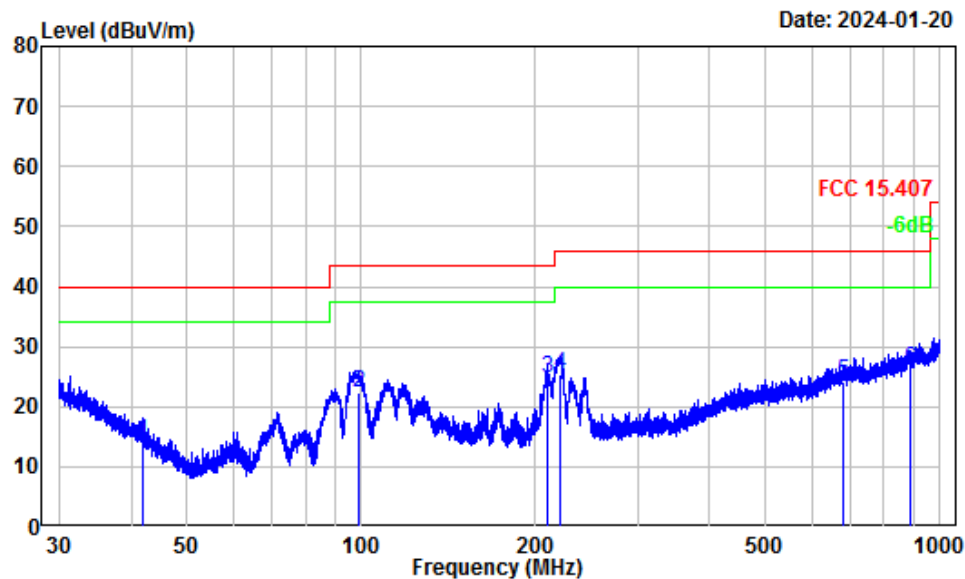


Site : chamber  
 Condition : 3m  
 Project Number: SZ1231213-75213E-RF  
 Note : 5G WIFI  
 Tester : Warren Huang

|   | Freq | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|------|--------|------------|--------|------------|------------|--------|
|   | MHz  | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 0.21 | 28.61  | 26.72      | 55.33  | 101.13     | -45.80     | Peak   |
| 2 | 0.45 | 21.66  | 29.50      | 51.16  | 94.55      | -43.39     | Peak   |
| 3 | 0.60 | 19.74  | 29.04      | 48.78  | 72.06      | -23.28     | Peak   |
| 4 | 0.76 | 17.44  | 26.56      | 44.00  | 69.87      | -25.87     | Peak   |
| 5 | 1.23 | 14.33  | 29.43      | 43.76  | 65.67      | -21.91     | Peak   |
| 6 | 1.40 | 13.47  | 27.94      | 41.41  | 64.50      | -23.09     | Peak   |

30 MHz–1 GHz: (Maximum output power mode, 802.11 a, 5825MHz, ANT2)

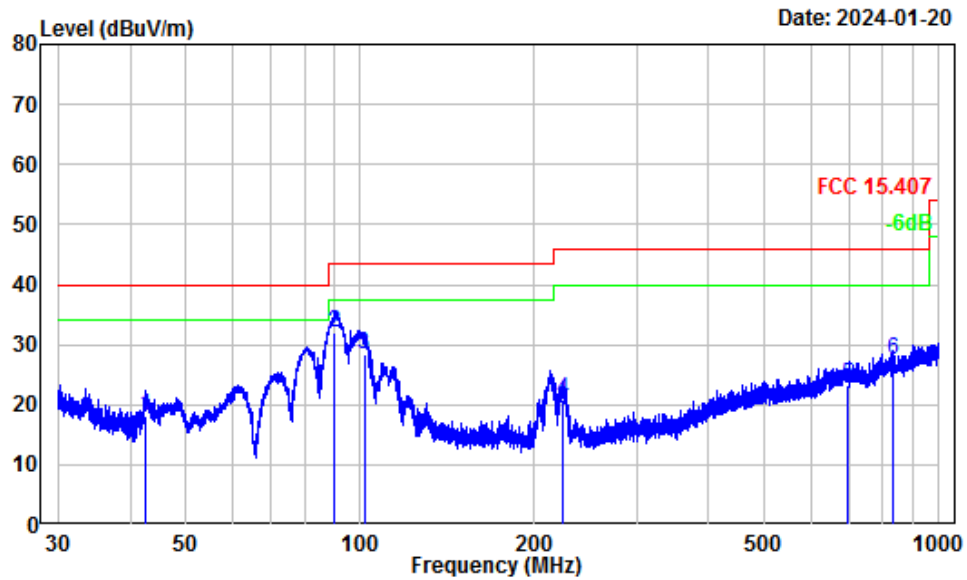
Horizontal



Site : chamber  
Condition : 3m Horizontal  
Project Number: SZ1231213-75213E-RF  
Note : 5G WIFI  
Tester : Warren Huang

|   | Freq Factor |        | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 41.79       | -11.53 | 25.64      | 14.11  | 40.00      | -25.89     | QP     |
| 2 | 98.79       | -14.08 | 36.50      | 22.42  | 43.50      | -21.08     | QP     |
| 3 | 209.68      | -11.19 | 35.80      | 24.61  | 43.50      | -18.89     | QP     |
| 4 | 220.91      | -11.37 | 36.63      | 25.26  | 46.00      | -20.74     | QP     |
| 5 | 682.95      | -1.83  | 25.92      | 24.09  | 46.00      | -21.91     | QP     |
| 6 | 886.83      | 0.80   | 25.36      | 26.16  | 46.00      | -19.84     | QP     |

## Vertical



Site : chamber  
Condition : 3m Vertical  
Project Number: SZ1231213-75213E-RF  
Note : 5G WIFI  
Tester : Warren Huang

|   | Freq   | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|--------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz    | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |        |
| 1 | 42.47  | -13.29 | 31.55         | 18.26  | 40.00         | -21.74        | QP     |
| 2 | 90.34  | -17.29 | 49.14         | 31.85  | 43.50         | -11.65        | QP     |
| 3 | 101.51 | -14.79 | 43.24         | 28.45  | 43.50         | -15.05        | QP     |
| 4 | 224.22 | -12.24 | 32.98         | 20.74  | 46.00         | -25.26        | QP     |
| 5 | 694.11 | -2.02  | 25.12         | 23.10  | 46.00         | -22.90        | QP     |
| 6 | 834.05 | -0.28  | 27.80         | 27.52  | 46.00         | -18.48        | QP     |

**Above 1GHz:****5150-5250 MHz:**

| Frequency<br>(MHz) | Receiver          |        | Turntable<br>Angle<br>Degree | Rx Antenna    |                | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|--------|------------------------------|---------------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/Ave |                              | Height<br>(m) | Polar<br>(H/V) |                  |                                    |                   |                |
| 802.11a (ANT 1)    |                   |        |                              |               |                |                  |                                    |                   |                |
| 5180MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 10360.00           | 50.89             | PK     | 231                          | 1.3           | H              | 13.07            | 63.96                              | 68.2              | -4.24          |
| 10360.00           | 50.18             | PK     | 231                          | 1.3           | V              | 13.07            | 63.25                              | 68.2              | -4.95          |
| 5200MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 10400.00           | 51.45             | PK     | 145                          | 2.2           | H              | 13.12            | 64.57                              | 68.2              | -3.63          |
| 10400.00           | 50.72             | PK     | 145                          | 2.2           | V              | 13.12            | 63.84                              | 68.2              | -4.36          |
| 5240MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 10480.00           | 52.06             | PK     | 206                          | 2.5           | H              | 13.07            | 65.13                              | 68.2              | -3.07          |
| 10480.00           | 51.21             | PK     | 206                          | 2.5           | V              | 13.07            | 64.28                              | 68.2              | -3.92          |
| 802.11a (ANT 2)    |                   |        |                              |               |                |                  |                                    |                   |                |
| 5180MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 10360.00           | 49.96             | PK     | 55                           | 1.6           | H              | 13.07            | 63.03                              | 68.2              | -5.17          |
| 10360.00           | 49.17             | PK     | 55                           | 1.6           | V              | 13.07            | 62.24                              | 68.2              | -5.96          |
| 5200MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 10400.00           | 50.53             | PK     | 261                          | 1.7           | H              | 13.12            | 63.65                              | 68.2              | -4.55          |
| 10400.00           | 49.75             | PK     | 261                          | 1.7           | V              | 13.12            | 62.87                              | 68.2              | -5.33          |
| 5240MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 10480.00           | 51.18             | PK     | 45                           | 1.6           | H              | 13.07            | 64.25                              | 68.2              | -3.95          |
| 10480.00           | 50.35             | PK     | 45                           | 1.6           | V              | 13.07            | 63.42                              | 68.2              | -4.78          |
| 802.11ac20         |                   |        |                              |               |                |                  |                                    |                   |                |
| 5180MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 10360.00           | 51.23             | PK     | 181                          | 2.4           | H              | 13.07            | 64.30                              | 68.2              | -3.90          |
| 10360.00           | 50.54             | PK     | 181                          | 2.4           | V              | 13.07            | 63.61                              | 68.2              | -4.59          |
| 5200MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 10400.00           | 51.68             | PK     | 92                           | 2.4           | H              | 13.12            | 64.80                              | 68.2              | -3.40          |
| 10400.00           | 50.95             | PK     | 92                           | 2.4           | V              | 13.12            | 64.07                              | 68.2              | -4.13          |
| 5240MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 10480.00           | 52.12             | PK     | 232                          | 1.6           | H              | 13.07            | 65.19                              | 68.2              | -3.01          |
| 10480.00           | 51.31             | PK     | 232                          | 1.6           | V              | 13.07            | 64.38                              | 68.2              | -3.82          |

| Frequency<br>(MHz)   | Receiver          |        | Turntable<br>Angle<br>Degree | Rx Antenna    |                | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|----------------------|-------------------|--------|------------------------------|---------------|----------------|------------------|------------------------------------|-------------------|----------------|
|                      | Reading<br>(dBμV) | PK/Ave |                              | Height<br>(m) | Polar<br>(H/V) |                  |                                    |                   |                |
| 802.11ac40           |                   |        |                              |               |                |                  |                                    |                   |                |
| 5190MHz              |                   |        |                              |               |                |                  |                                    |                   |                |
| 10380.00             | 49.54             | PK     | 257                          | 1.0           | H              | 13.09            | 62.63                              | 68.2              | -5.57          |
| 10380.00             | 48.75             | PK     | 257                          | 1.0           | V              | 13.09            | 61.84                              | 68.2              | -6.36          |
| 5230MHz              |                   |        |                              |               |                |                  |                                    |                   |                |
| 10460.00             | 51.77             | PK     | 311                          | 2.2           | H              | 13.09            | 64.86                              | 68.2              | -3.34          |
| 10460.00             | 50.93             | PK     | 311                          | 2.2           | V              | 13.09            | 64.02                              | 68.2              | -4.18          |
| 802.11ac80           |                   |        |                              |               |                |                  |                                    |                   |                |
| 5210MHz              |                   |        |                              |               |                |                  |                                    |                   |                |
| 10420.00             | 50.39             | PK     | 209                          | 1.6           | H              | 13.12            | 63.51                              | 68.2              | -4.69          |
| 10420.00             | 49.64             | PK     | 209                          | 1.6           | V              | 13.12            | 62.76                              | 68.2              | -5.44          |
| 802.11ax20           |                   |        |                              |               |                |                  |                                    |                   |                |
| 5180MHz_242Tone_RU61 |                   |        |                              |               |                |                  |                                    |                   |                |
| 10360.00             | 51.32             | PK     | 4                            | 1.3           | H              | 13.07            | 64.39                              | 68.2              | -3.81          |
| 10360.00             | 50.53             | PK     | 4                            | 1.3           | V              | 13.07            | 63.60                              | 68.2              | -4.60          |
| 5200MHz_242Tone_RU61 |                   |        |                              |               |                |                  |                                    |                   |                |
| 10400.00             | 51.51             | PK     | 13                           | 1.1           | H              | 13.12            | 64.63                              | 68.2              | -3.57          |
| 10400.00             | 50.74             | PK     | 13                           | 1.1           | V              | 13.12            | 63.86                              | 68.2              | -4.34          |
| 5240MHz_242Tone_RU61 |                   |        |                              |               |                |                  |                                    |                   |                |
| 10480.00             | 51.78             | PK     | 289                          | 2.5           | H              | 13.07            | 64.85                              | 68.2              | -3.35          |
| 10480.00             | 50.95             | PK     | 289                          | 2.5           | V              | 13.07            | 64.02                              | 68.2              | -4.18          |
| 802.11ax40           |                   |        |                              |               |                |                  |                                    |                   |                |
| 5190MHz_484Tone_RU65 |                   |        |                              |               |                |                  |                                    |                   |                |
| 10380.00             | 49.92             | PK     | 2                            | 1.7           | H              | 13.09            | 63.01                              | 68.2              | -5.19          |
| 10380.00             | 49.15             | PK     | 2                            | 1.7           | V              | 13.09            | 62.24                              | 68.2              | -5.96          |
| 5230MHz_484Tone_RU65 |                   |        |                              |               |                |                  |                                    |                   |                |
| 10460.00             | 51.16             | PK     | 104                          | 2.2           | H              | 13.09            | 64.25                              | 68.2              | -3.95          |
| 10460.00             | 50.33             | PK     | 104                          | 2.2           | V              | 13.09            | 63.42                              | 68.2              | -4.78          |
| 802.11ax80           |                   |        |                              |               |                |                  |                                    |                   |                |
| 5210MHz_996Tone_RU67 |                   |        |                              |               |                |                  |                                    |                   |                |
| 10420.00             | 49.54             | PK     | 23                           | 1.2           | H              | 13.12            | 62.66                              | 68.2              | -5.54          |
| 10420.00             | 48.89             | PK     | 23                           | 1.2           | V              | 13.12            | 62.01                              | 68.2              | -6.19          |

**5725-5850 MHz:**

| Frequency<br>(MHz) | Receiver          |        | Turntable<br>Angle<br>Degree | Rx Antenna    |                | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|--------|------------------------------|---------------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/Ave |                              | Height<br>(m) | Polar<br>(H/V) |                  |                                    |                   |                |
| 802.11a (ANT 1)    |                   |        |                              |               |                |                  |                                    |                   |                |
| 5745MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 11490.00           | 49.72             | PK     | 281                          | 1.7           | H              | 14.31            | 64.03                              | 74                | -9.97          |
| 11490.00           | 34.66             | AV     | 281                          | 1.7           | H              | 14.31            | 48.97                              | 54                | -5.03          |
| 11490.00           | 50.53             | PK     | 131                          | 1.4           | V              | 14.31            | 64.84                              | 74                | -9.16          |
| 11490.00           | 35.94             | AV     | 131                          | 1.4           | V              | 14.31            | 50.25                              | 54                | -3.75          |
| 5785MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 11570.00           | 45.63             | PK     | 357                          | 1.9           | H              | 14.05            | 59.68                              | 74                | -14.32         |
| 11570.00           | 35.18             | AV     | 357                          | 1.9           | H              | 14.05            | 49.23                              | 54                | -4.77          |
| 11570.00           | 50.23             | PK     | 346                          | 1.2           | V              | 14.05            | 64.28                              | 74                | -9.72          |
| 11570.00           | 36.63             | AV     | 346                          | 1.2           | V              | 14.05            | 50.68                              | 54                | -3.32          |
| 5825MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 11650.00           | 46.17             | PK     | 199                          | 1.6           | H              | 13.83            | 60.00                              | 74                | -14.00         |
| 11650.00           | 35.88             | AV     | 199                          | 1.6           | H              | 13.83            | 49.71                              | 54                | -4.29          |
| 11650.00           | 50.25             | PK     | 292                          | 2.4           | V              | 13.83            | 64.08                              | 74                | -9.92          |
| 11650.00           | 36.55             | AV     | 292                          | 2.4           | V              | 13.83            | 50.38                              | 54                | -3.62          |
| 802.11a (ANT 2)    |                   |        |                              |               |                |                  |                                    |                   |                |
| 5745MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 11490.00           | 47.33             | PK     | 209                          | 1.7           | H              | 14.31            | 61.64                              | 74                | -12.36         |
| 11490.00           | 33.62             | AV     | 209                          | 1.7           | H              | 14.31            | 47.93                              | 54                | -6.07          |
| 11490.00           | 48.58             | PK     | 139                          | 1.5           | V              | 14.31            | 62.89                              | 74                | -11.11         |
| 11490.00           | 36.58             | AV     | 139                          | 1.5           | V              | 14.31            | 50.89                              | 54                | -3.11          |
| 5785MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 11570.00           | 47.02             | PK     | 342                          | 1.3           | H              | 14.05            | 61.07                              | 74                | -12.93         |
| 11570.00           | 32.06             | AV     | 342                          | 1.3           | H              | 14.05            | 46.11                              | 54                | -7.89          |
| 11570.00           | 48.97             | PK     | 218                          | 2.1           | V              | 14.05            | 63.02                              | 74                | -10.98         |
| 11570.00           | 36.04             | AV     | 218                          | 2.1           | V              | 14.05            | 50.09                              | 54                | -3.91          |
| 5825MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 11650.00           | 46.78             | PK     | 56                           | 1.7           | H              | 13.83            | 60.61                              | 74                | -13.39         |
| 11650.00           | 31.91             | AV     | 56                           | 1.7           | H              | 13.83            | 45.74                              | 54                | -8.26          |
| 11650.00           | 49.02             | PK     | 148                          | 1.5           | V              | 13.83            | 62.85                              | 74                | -11.15         |
| 11650.00           | 36.22             | AV     | 148                          | 1.5           | V              | 13.83            | 50.05                              | 54                | -3.95          |

| Frequency<br>(MHz) | Receiver          |        | Turntable<br>Angle<br>Degree | Rx Antenna    |                | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|--------|------------------------------|---------------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/Ave |                              | Height<br>(m) | Polar<br>(H/V) |                  |                                    |                   |                |
| 802.11ac20         |                   |        |                              |               |                |                  |                                    |                   |                |
| 5745MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 11490.00           | 44.95             | PK     | 327                          | 1.1           | H              | 14.31            | 59.26                              | 74                | -14.74         |
| 11490.00           | 34.22             | AV     | 327                          | 1.1           | H              | 14.31            | 48.53                              | 54                | -5.47          |
| 11490.00           | 48.66             | PK     | 338                          | 1.4           | V              | 14.31            | 62.97                              | 74                | -11.03         |
| 11490.00           | 36.38             | AV     | 338                          | 1.4           | V              | 14.31            | 50.69                              | 54                | -3.31          |
| 5785MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 11570.00           | 44.54             | PK     | 118                          | 1.9           | H              | 14.05            | 58.59                              | 74                | -15.41         |
| 11570.00           | 33.16             | AV     | 118                          | 1.9           | H              | 14.05            | 47.21                              | 54                | -6.79          |
| 11570.00           | 49.59             | PK     | 278                          | 2.3           | V              | 14.05            | 63.64                              | 74                | -10.36         |
| 11570.00           | 36.29             | AV     | 278                          | 2.3           | V              | 14.05            | 50.34                              | 54                | -3.66          |
| 5825MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 11650.00           | 44.85             | PK     | 29                           | 1.7           | H              | 13.83            | 58.68                              | 74                | -15.32         |
| 11650.00           | 33.26             | AV     | 29                           | 1.7           | H              | 13.83            | 47.09                              | 54                | -6.91          |
| 11650.00           | 49.53             | PK     | 182                          | 1.0           | V              | 13.83            | 63.36                              | 74                | -10.64         |
| 11650.00           | 36.51             | AV     | 182                          | 1.0           | V              | 13.83            | 50.34                              | 54                | -3.66          |
| 802.11ac40         |                   |        |                              |               |                |                  |                                    |                   |                |
| 5755MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 11510.00           | 45.19             | PK     | 124                          | 1.8           | H              | 14.29            | 59.48                              | 74                | -14.52         |
| 11510.00           | 33.52             | AV     | 124                          | 1.8           | H              | 14.29            | 47.81                              | 54                | -6.19          |
| 11510.00           | 47.49             | PK     | 5                            | 2.1           | V              | 14.29            | 61.78                              | 74                | -12.22         |
| 11510.00           | 35.16             | AV     | 5                            | 2.1           | V              | 14.29            | 49.45                              | 54                | -4.55          |
| 5795MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 11590.00           | 45.44             | PK     | 332                          | 1.7           | H              | 13.97            | 59.41                              | 74                | -14.59         |
| 11590.00           | 31.02             | AV     | 332                          | 1.7           | H              | 13.97            | 44.99                              | 54                | -9.01          |
| 11590.00           | 49.29             | PK     | 131                          | 1.7           | V              | 13.97            | 63.26                              | 74                | -10.74         |
| 11590.00           | 32.08             | AV     | 131                          | 1.7           | V              | 13.97            | 46.05                              | 54                | -7.95          |
| 802.11ac80         |                   |        |                              |               |                |                  |                                    |                   |                |
| 5775MHz            |                   |        |                              |               |                |                  |                                    |                   |                |
| 11550.00           | 46.54             | PK     | 229                          | 1.8           | H              | 14.13            | 60.67                              | 74                | -13.33         |
| 11550.00           | 35.01             | AV     | 229                          | 1.8           | H              | 14.13            | 49.14                              | 54                | -4.86          |
| 11550.00           | 47.98             | PK     | 147                          | 1.3           | V              | 14.13            | 62.11                              | 74                | -11.89         |
| 11550.00           | 35.87             | AV     | 147                          | 1.3           | V              | 14.13            | 50.00                              | 54                | -4.00          |

| Frequency<br>(MHz)   | Receiver          |        | Turntable<br>Angle<br>Degree | Rx Antenna    |                | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|----------------------|-------------------|--------|------------------------------|---------------|----------------|------------------|------------------------------------|-------------------|----------------|
|                      | Reading<br>(dBμV) | PK/Ave |                              | Height<br>(m) | Polar<br>(H/V) |                  |                                    |                   |                |
| 802.11ax20           |                   |        |                              |               |                |                  |                                    |                   |                |
| 5745MHz_242Tone_RU61 |                   |        |                              |               |                |                  |                                    |                   |                |
| 11490.00             | 49.25             | PK     | 199                          | 2.2           | H              | 14.31            | 63.56                              | 74                | -10.44         |
| 11490.00             | 35.42             | AV     | 199                          | 2.2           | H              | 14.31            | 49.73                              | 54                | -4.27          |
| 11490.00             | 50.31             | PK     | 150                          | 2.2           | V              | 14.31            | 64.62                              | 74                | -9.38          |
| 11490.00             | 36.54             | AV     | 150                          | 2.2           | V              | 14.31            | 50.85                              | 54                | -3.15          |
| 5785MHz_242Tone_RU61 |                   |        |                              |               |                |                  |                                    |                   |                |
| 11570.00             | 48.89             | PK     | 190                          | 1.1           | H              | 14.05            | 62.94                              | 74                | -11.06         |
| 11570.00             | 35.21             | AV     | 190                          | 1.1           | H              | 14.05            | 49.26                              | 54                | -4.74          |
| 11570.00             | 49.75             | PK     | 113                          | 2.4           | V              | 14.05            | 63.80                              | 74                | -10.20         |
| 11570.00             | 36.08             | AV     | 113                          | 2.4           | V              | 14.05            | 50.13                              | 54                | -3.87          |
| 5825MHz_242Tone_RU61 |                   |        |                              |               |                |                  |                                    |                   |                |
| 11650.00             | 48.57             | PK     | 21                           | 1.1           | H              | 13.83            | 62.40                              | 74                | -11.60         |
| 11650.00             | 34.96             | AV     | 21                           | 1.1           | H              | 13.83            | 48.79                              | 54                | -5.21          |
| 11650.00             | 49.34             | PK     | 56                           | 2.1           | V              | 13.83            | 63.17                              | 74                | -10.83         |
| 11650.00             | 35.85             | AV     | 56                           | 2.1           | V              | 13.83            | 49.68                              | 54                | -4.32          |
| 802.11ax40           |                   |        |                              |               |                |                  |                                    |                   |                |
| 5755MHz_484Tone_RU65 |                   |        |                              |               |                |                  |                                    |                   |                |
| 11510.00             | 48.48             | PK     | 55                           | 1.0           | H              | 14.29            | 62.77                              | 74                | -11.23         |
| 11510.00             | 35.57             | AV     | 55                           | 1.0           | H              | 14.29            | 49.86                              | 54                | -4.14          |
| 11510.00             | 49.32             | PK     | 113                          | 1.1           | V              | 14.29            | 63.61                              | 74                | -10.39         |
| 11510.00             | 36.71             | AV     | 113                          | 1.1           | V              | 14.29            | 51.00                              | 54                | -3.00          |
| 5795MHz_484Tone_RU65 |                   |        |                              |               |                |                  |                                    |                   |                |
| 11590.00             | 47.99             | PK     | 74                           | 2.3           | H              | 13.97            | 61.96                              | 74                | -12.04         |
| 11590.00             | 34.68             | AV     | 74                           | 2.3           | H              | 13.97            | 48.65                              | 54                | -5.35          |
| 11590.00             | 49.02             | PK     | 124                          | 1.2           | V              | 13.97            | 62.99                              | 74                | -11.01         |
| 11590.00             | 36.35             | AV     | 124                          | 1.2           | V              | 13.97            | 50.32                              | 54                | -3.68          |
| 802.11ax80           |                   |        |                              |               |                |                  |                                    |                   |                |
| 5775MHz_996Tone_RU67 |                   |        |                              |               |                |                  |                                    |                   |                |
| 11550.00             | 47.85             | PK     | 145                          | 2.3           | H              | 14.13            | 61.98                              | 74                | -12.02         |
| 11550.00             | 35.24             | AV     | 145                          | 2.3           | H              | 14.13            | 49.37                              | 54                | -4.63          |
| 11550.00             | 49.52             | PK     | 154                          | 1.5           | V              | 14.13            | 63.65                              | 74                | -10.35         |
| 11550.00             | 36.17             | AV     | 154                          | 1.5           | V              | 14.13            | 50.30                              | 54                | -3.70          |

**Note:**

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

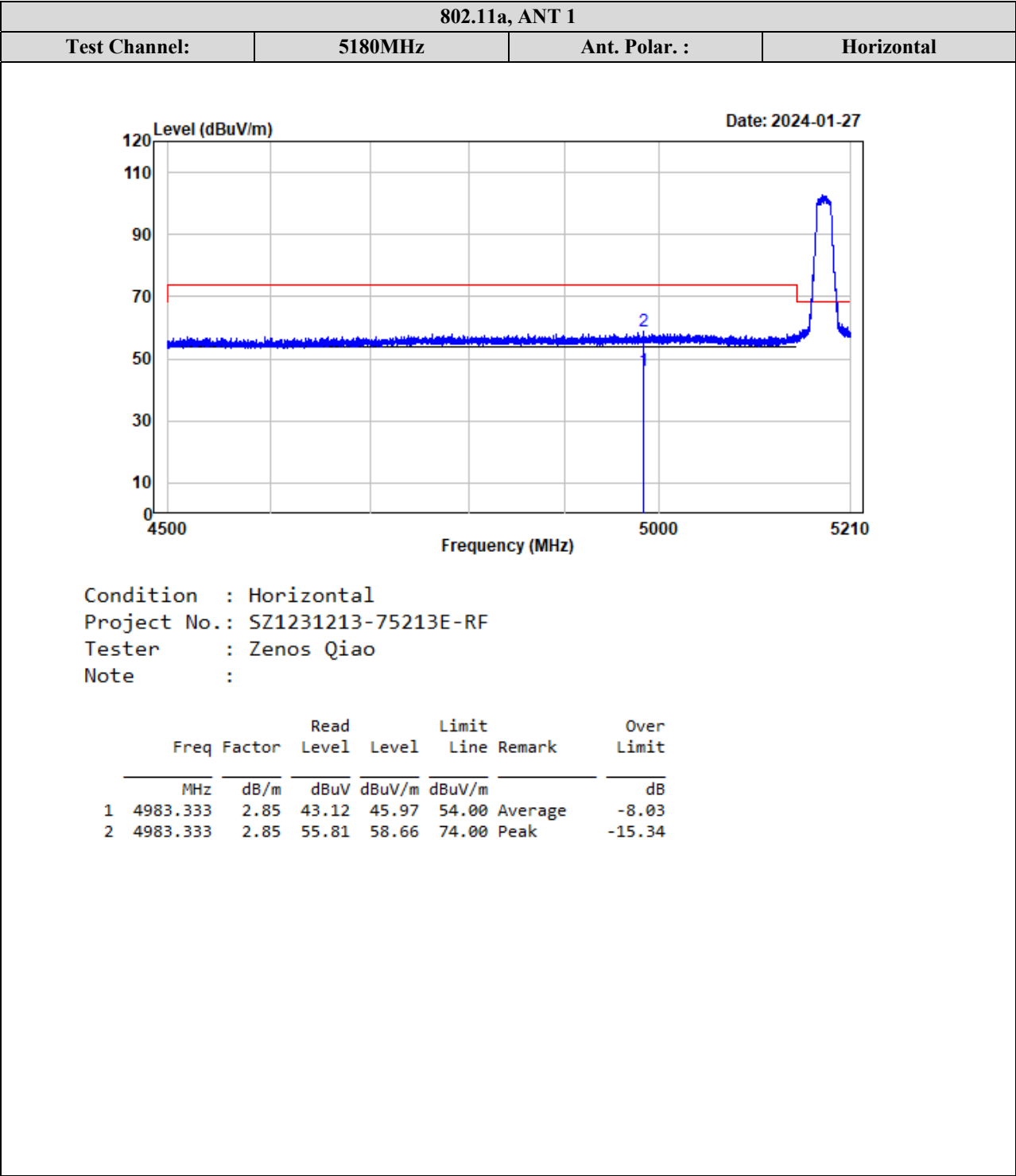
Corrected Amplitude = Factor + Reading

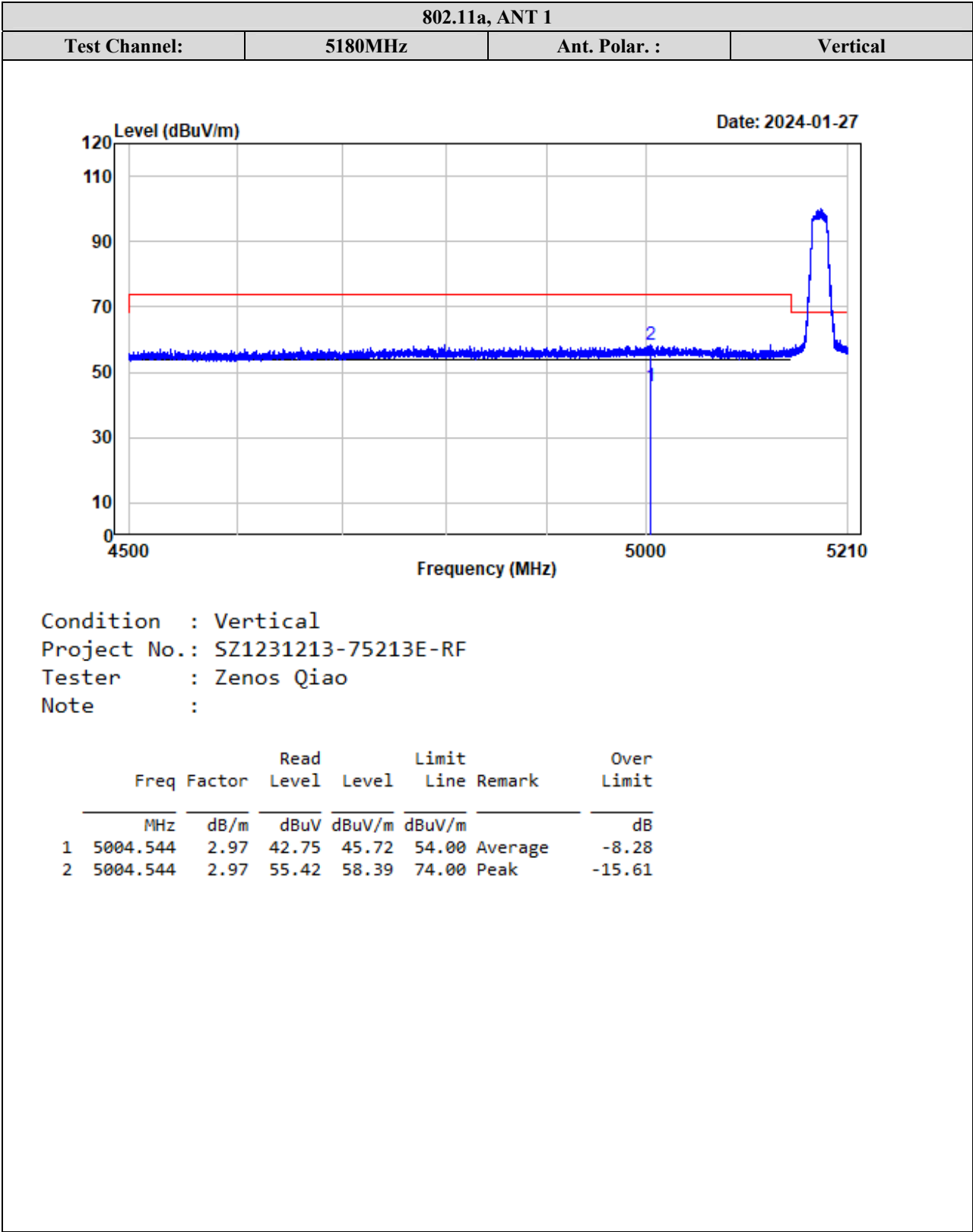
Margin = Corrected. Amplitude - Limit

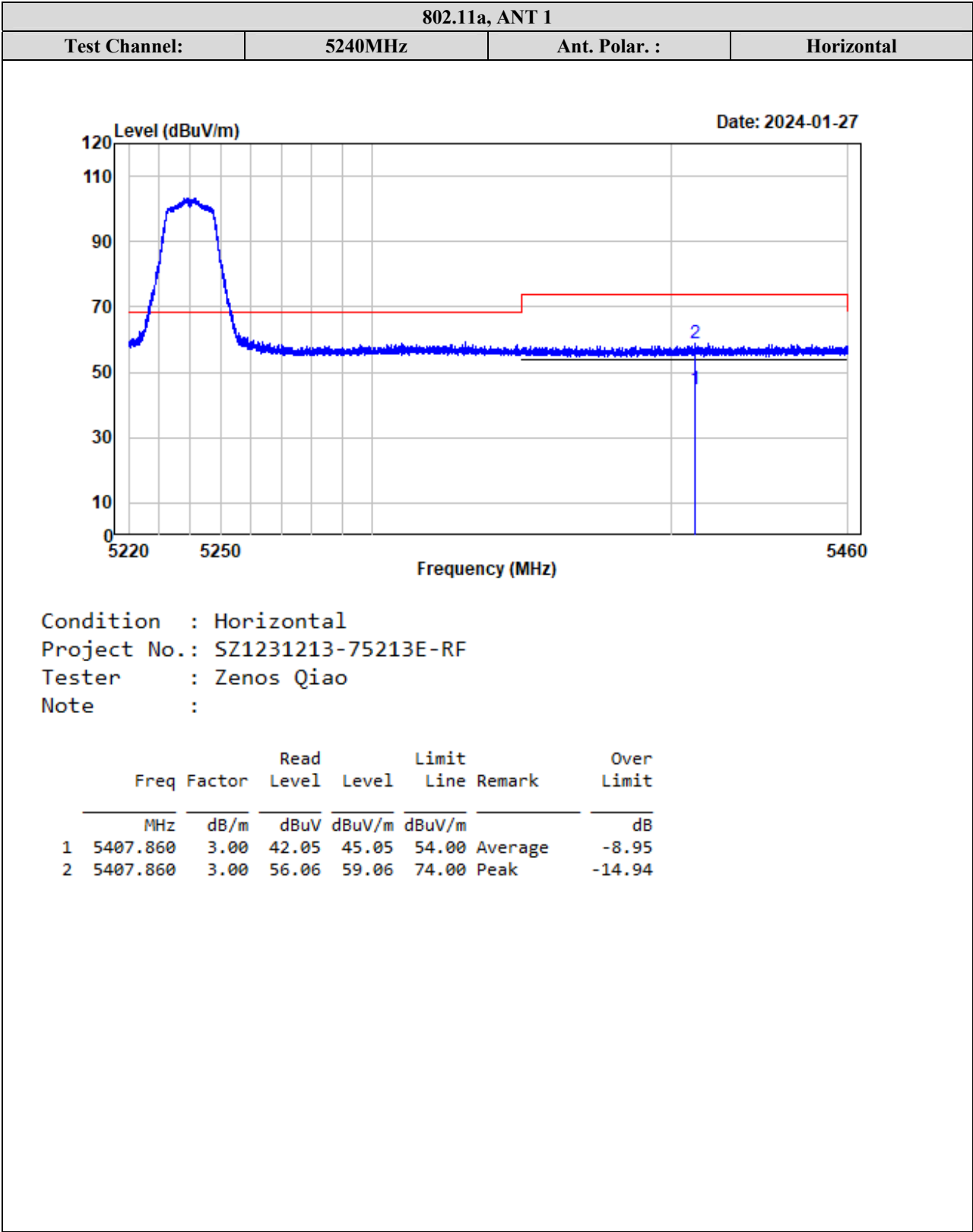
The other spurious emission which is in the noise floor level was not recorded.

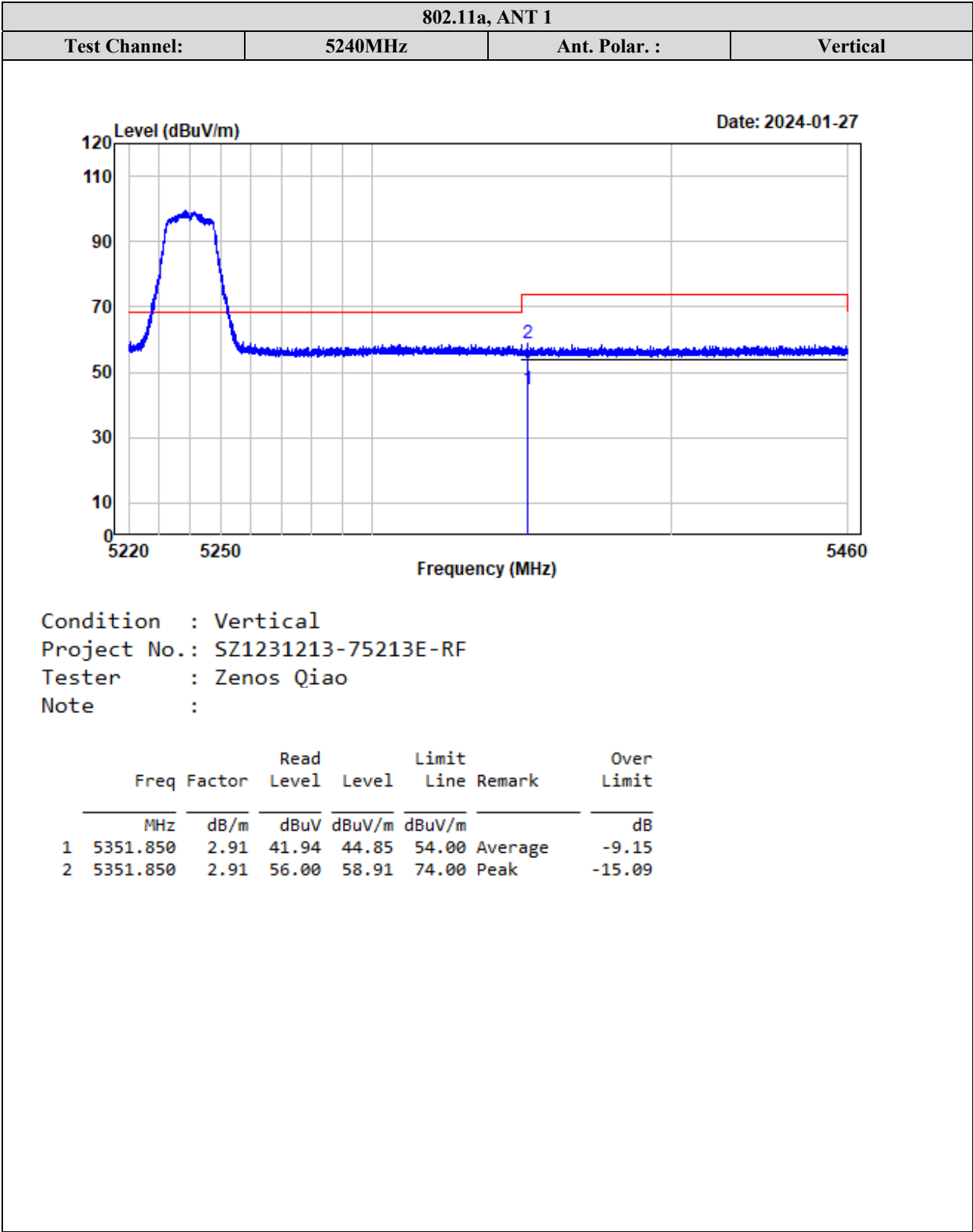
Test plots for Band Edge Measurements (Radiated)

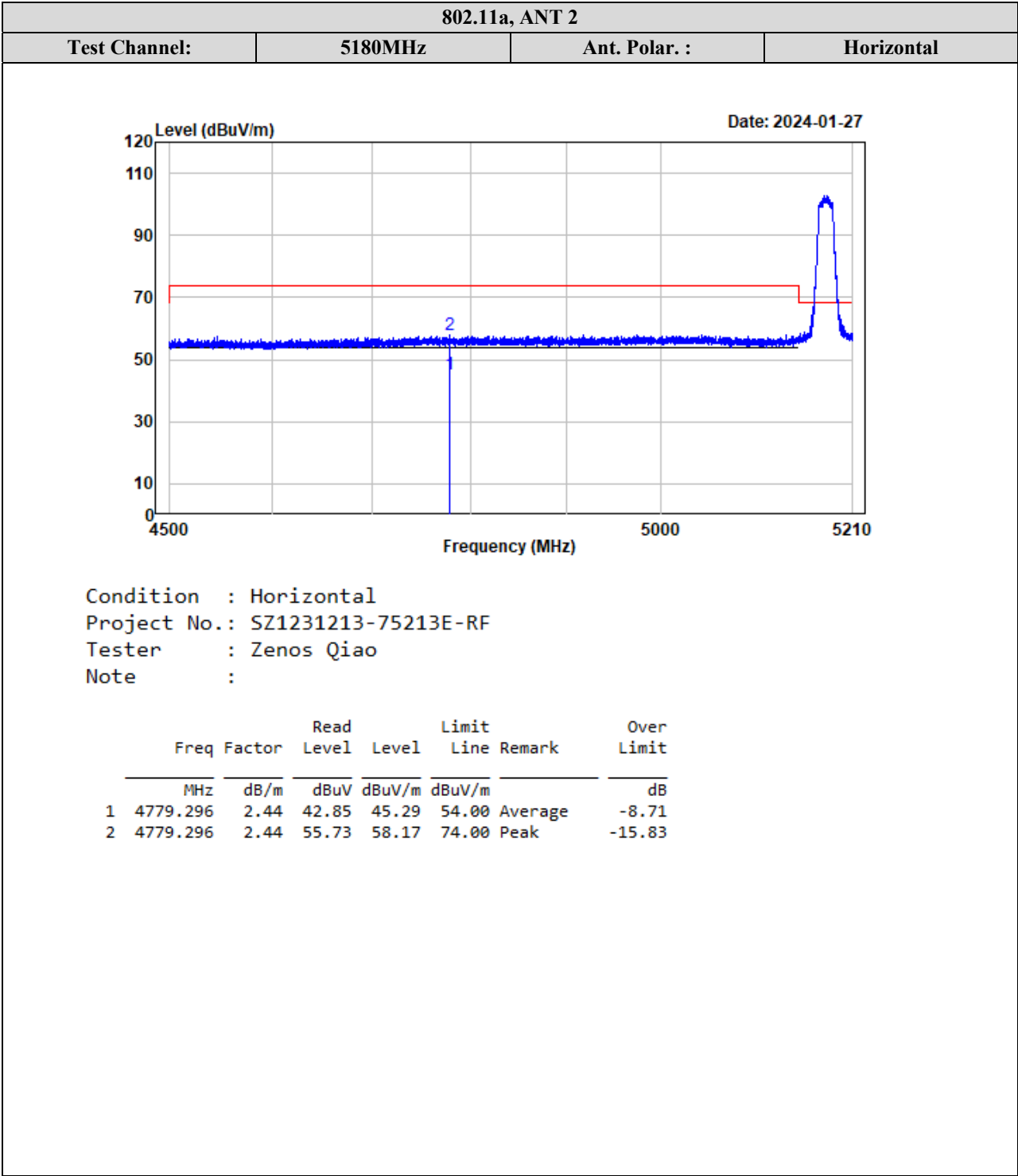
5150-5250MHz:

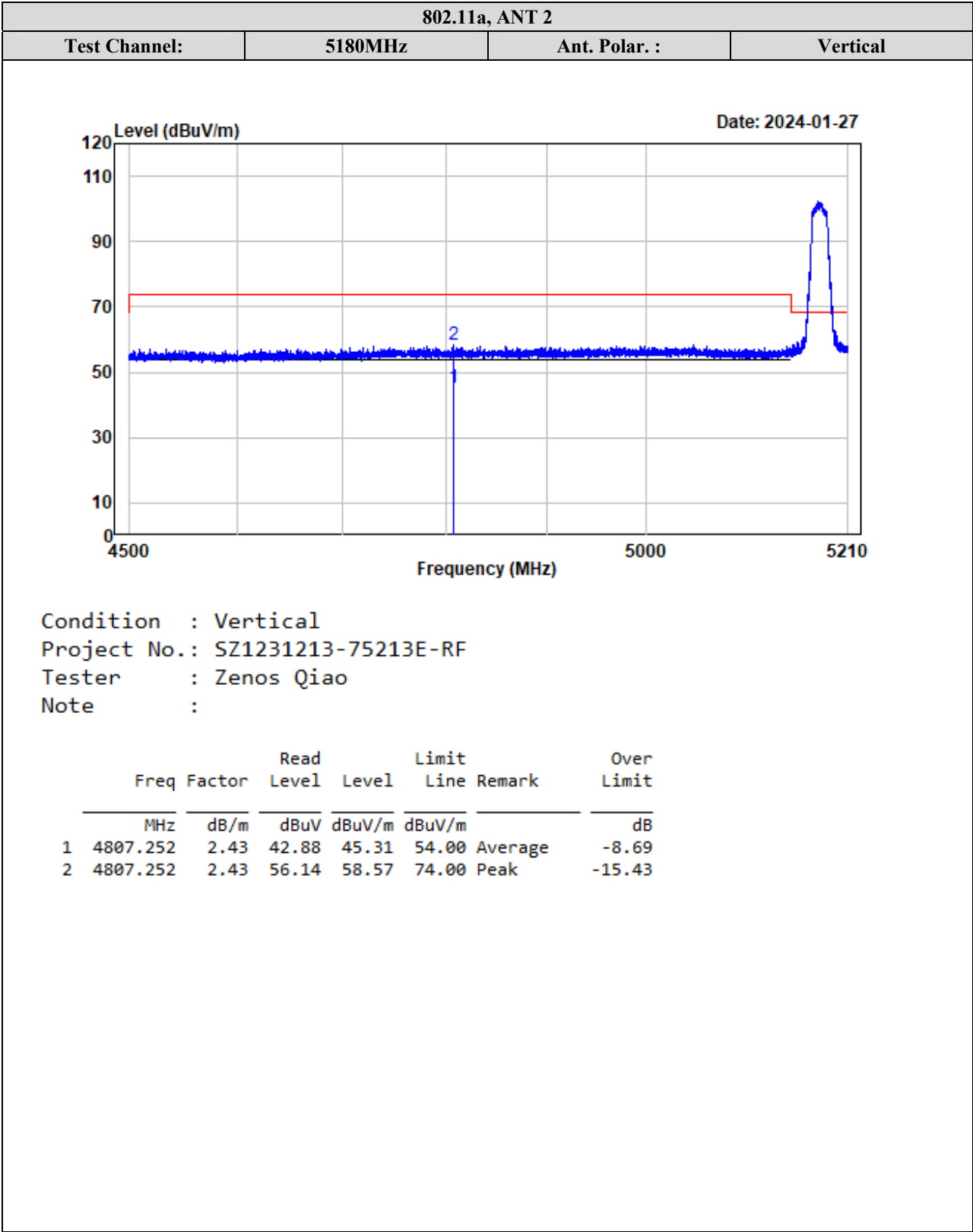


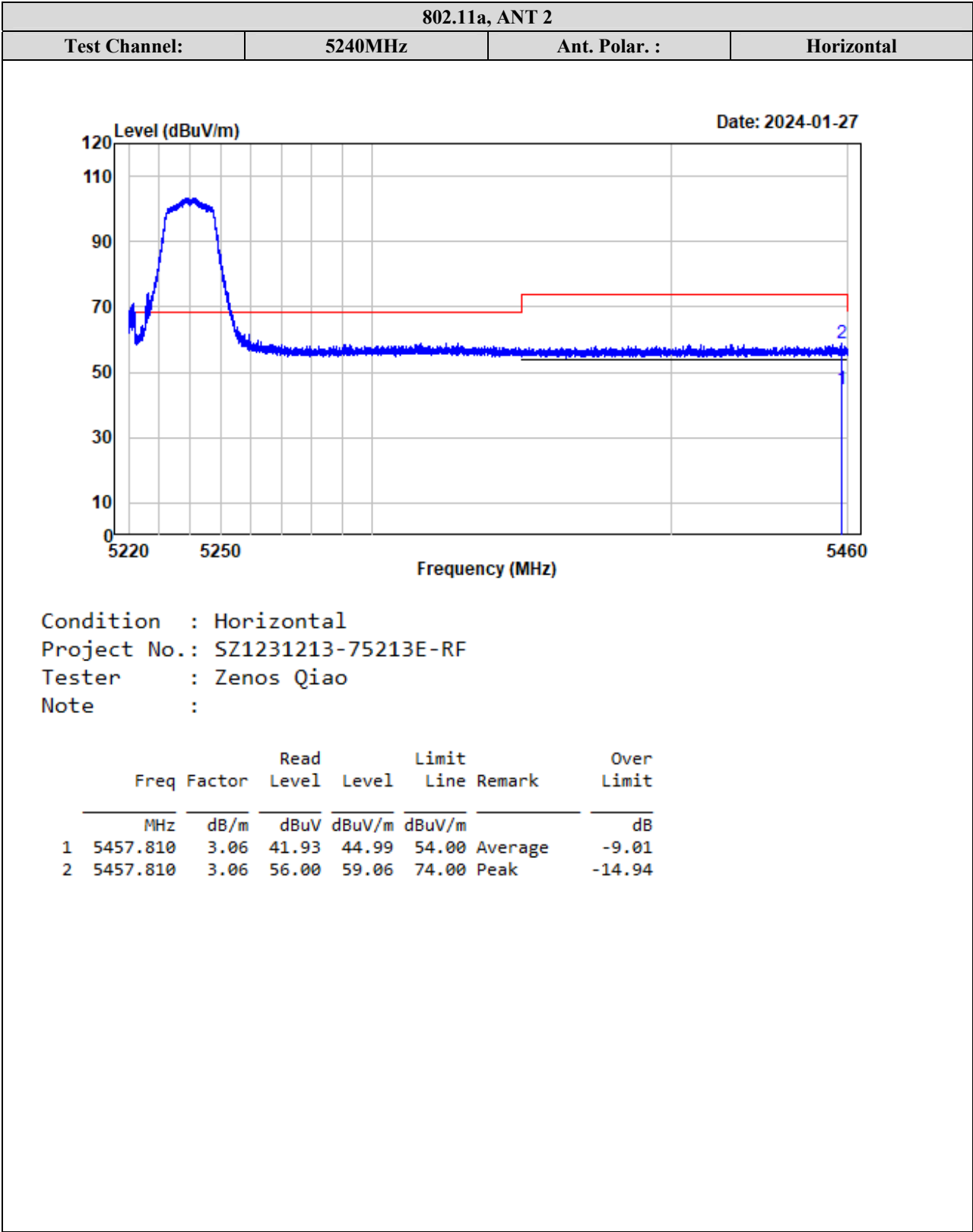


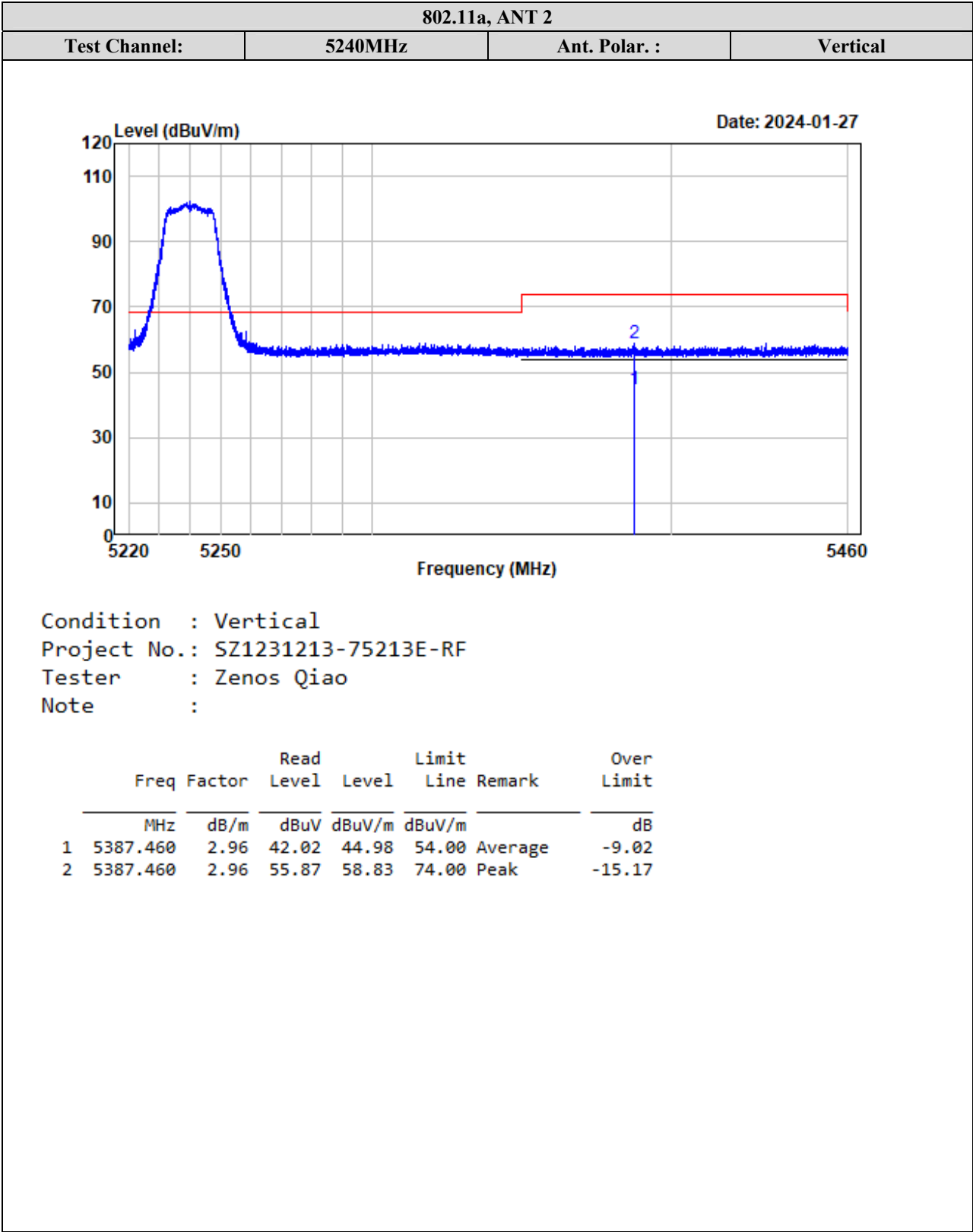


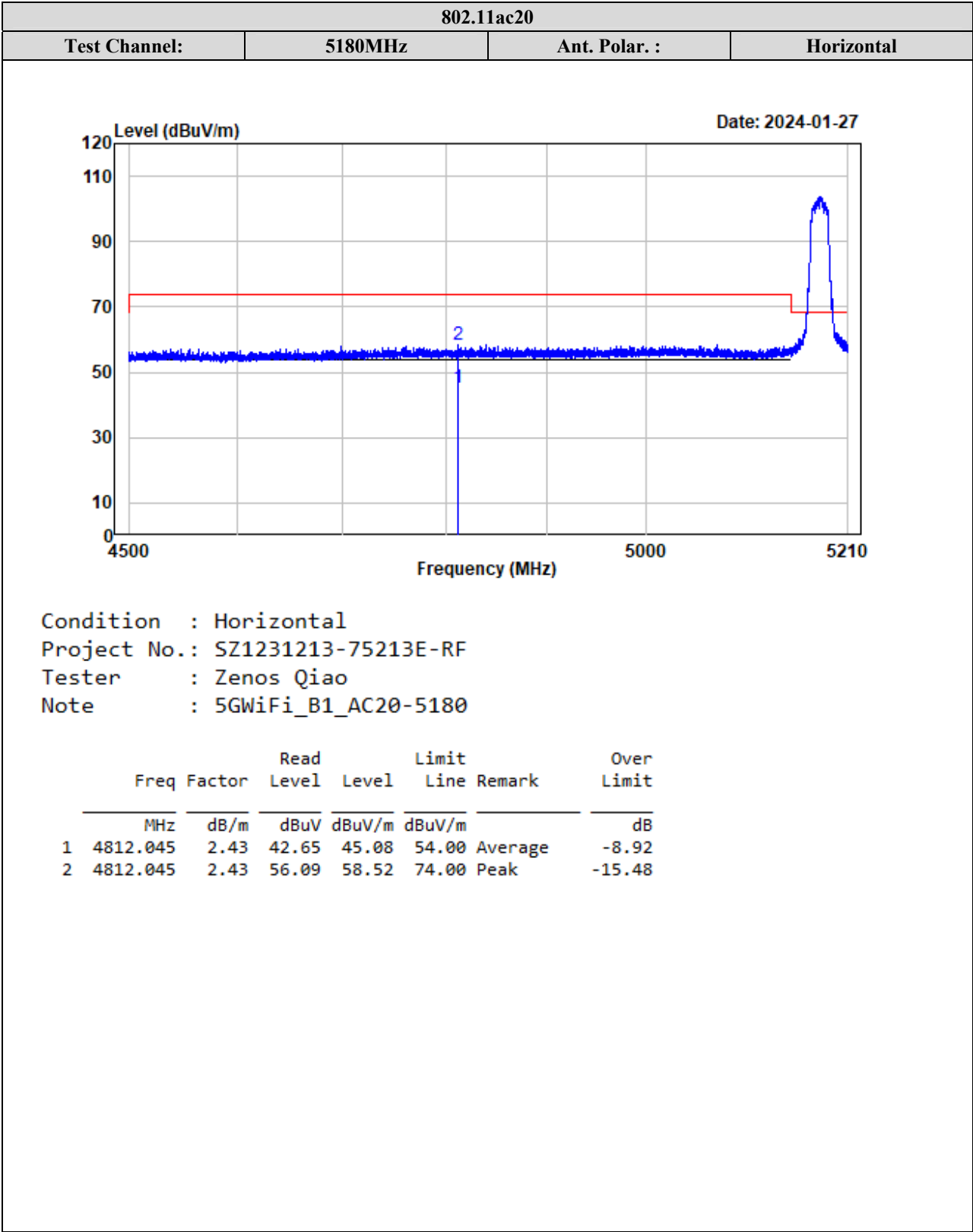


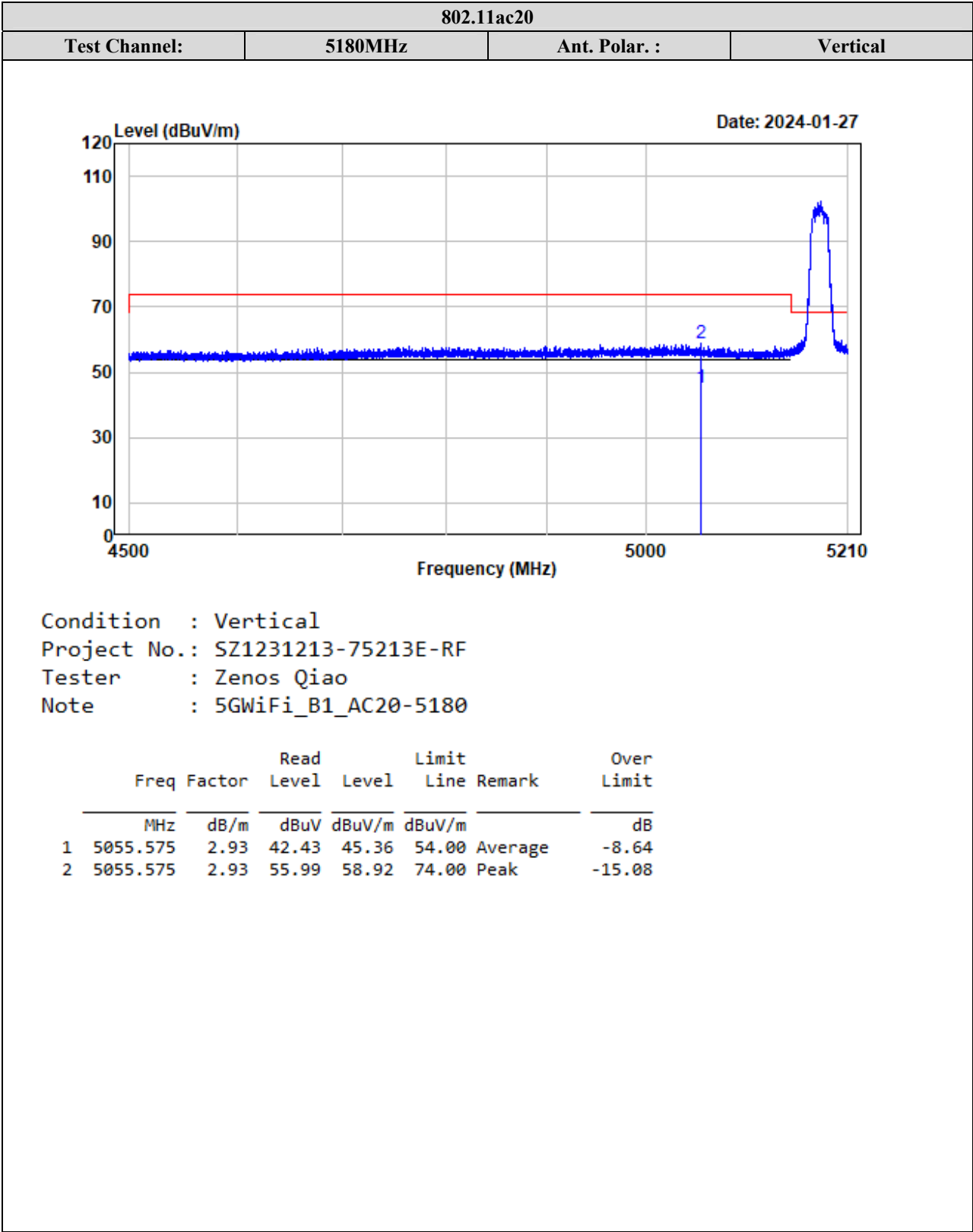


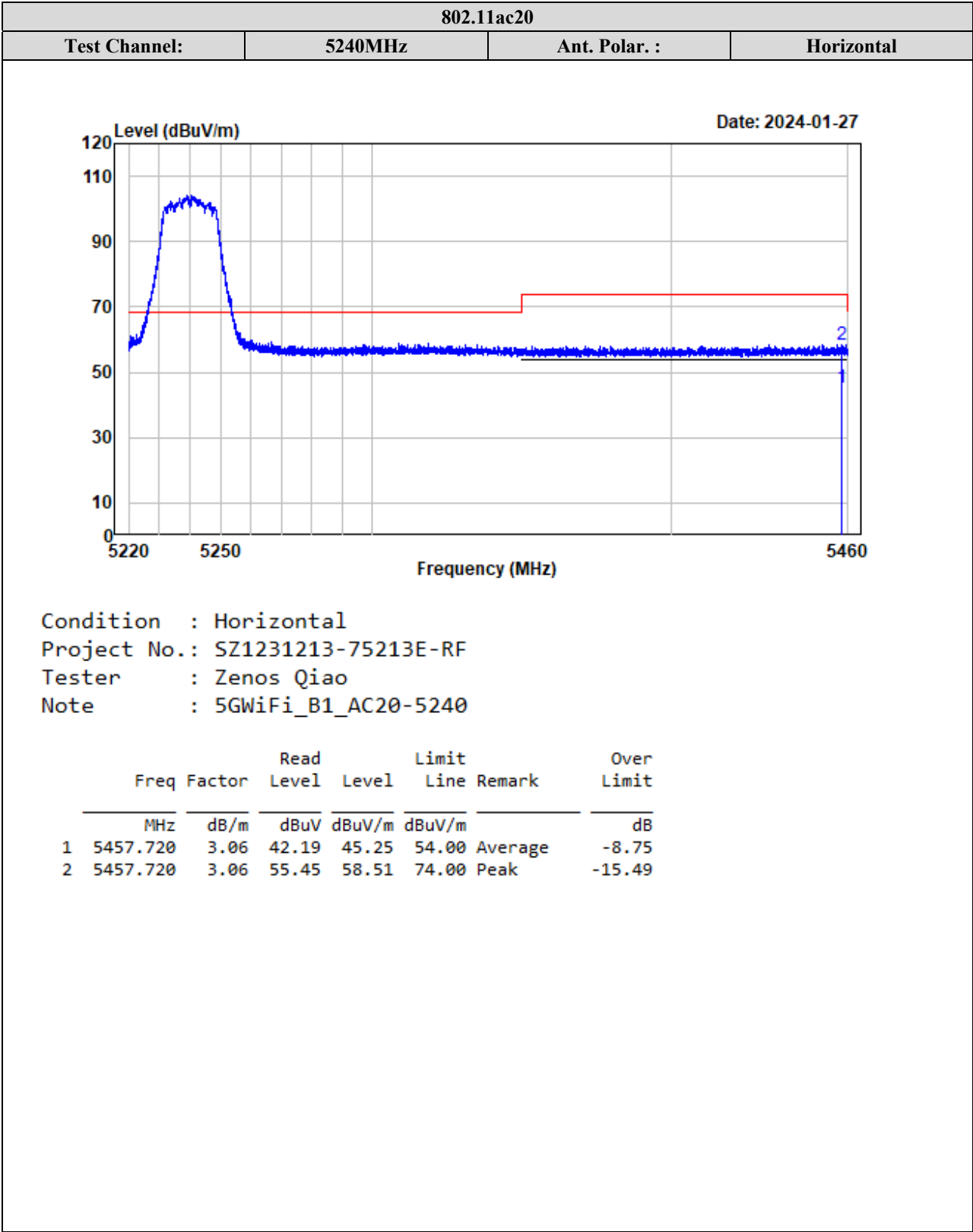


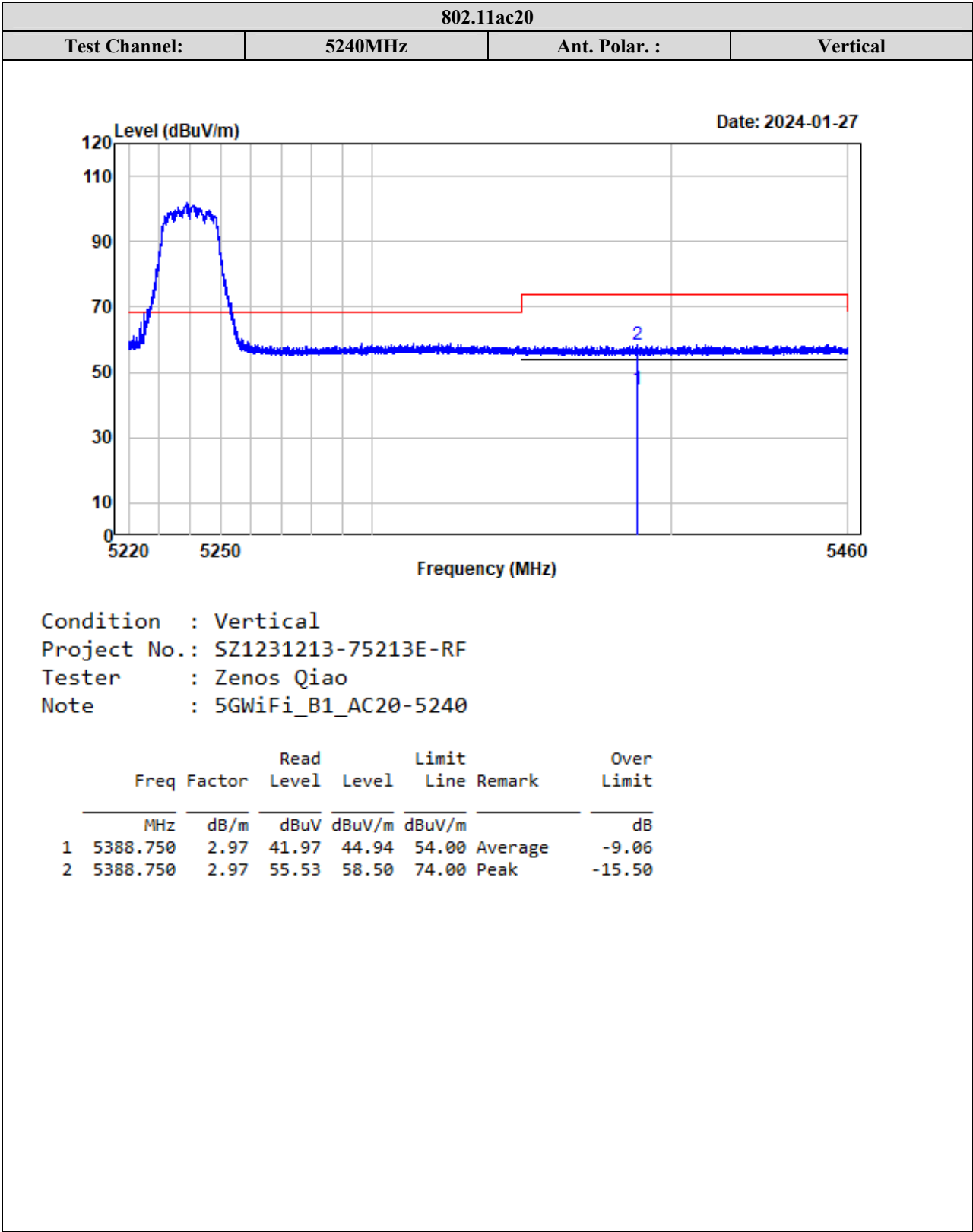


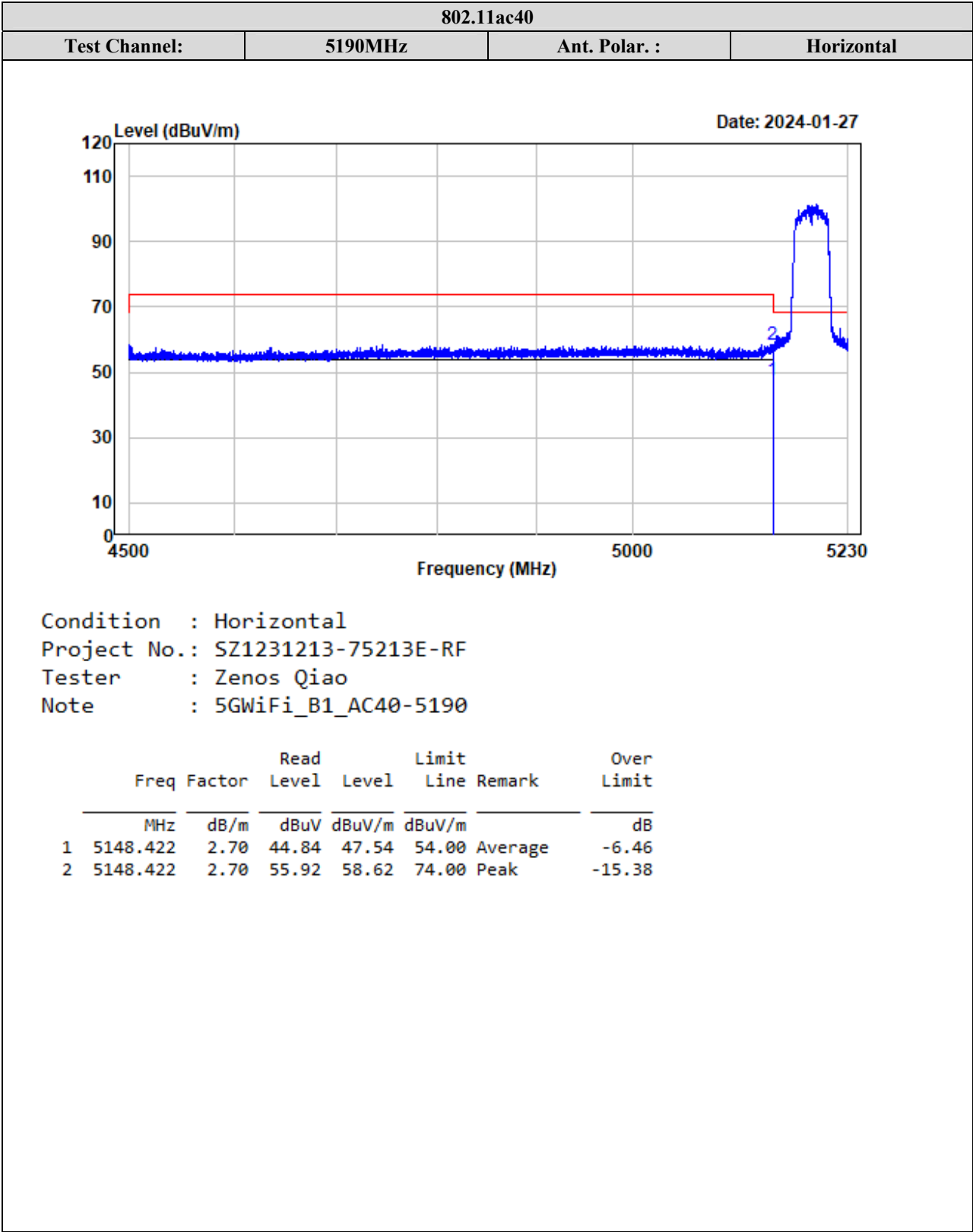


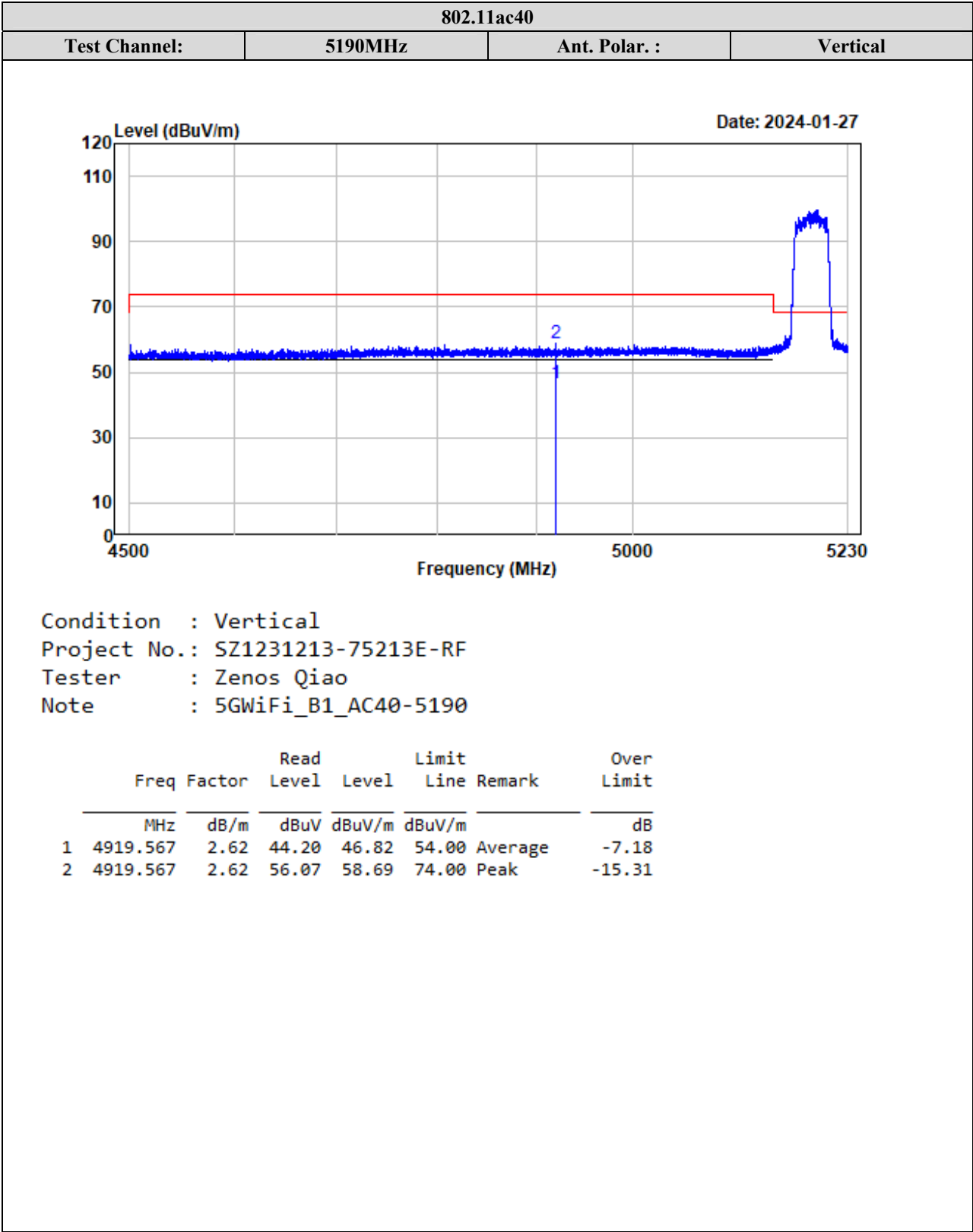


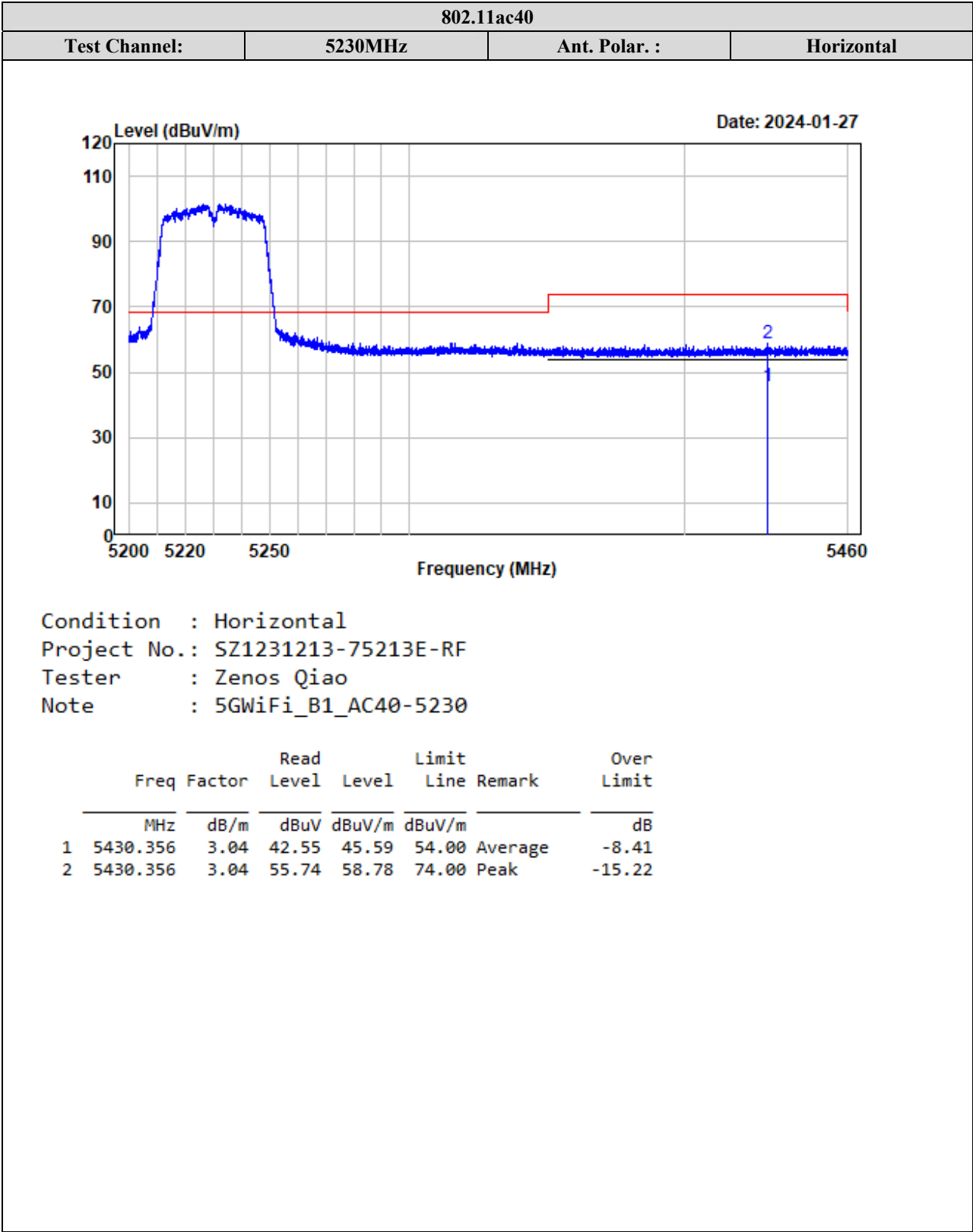


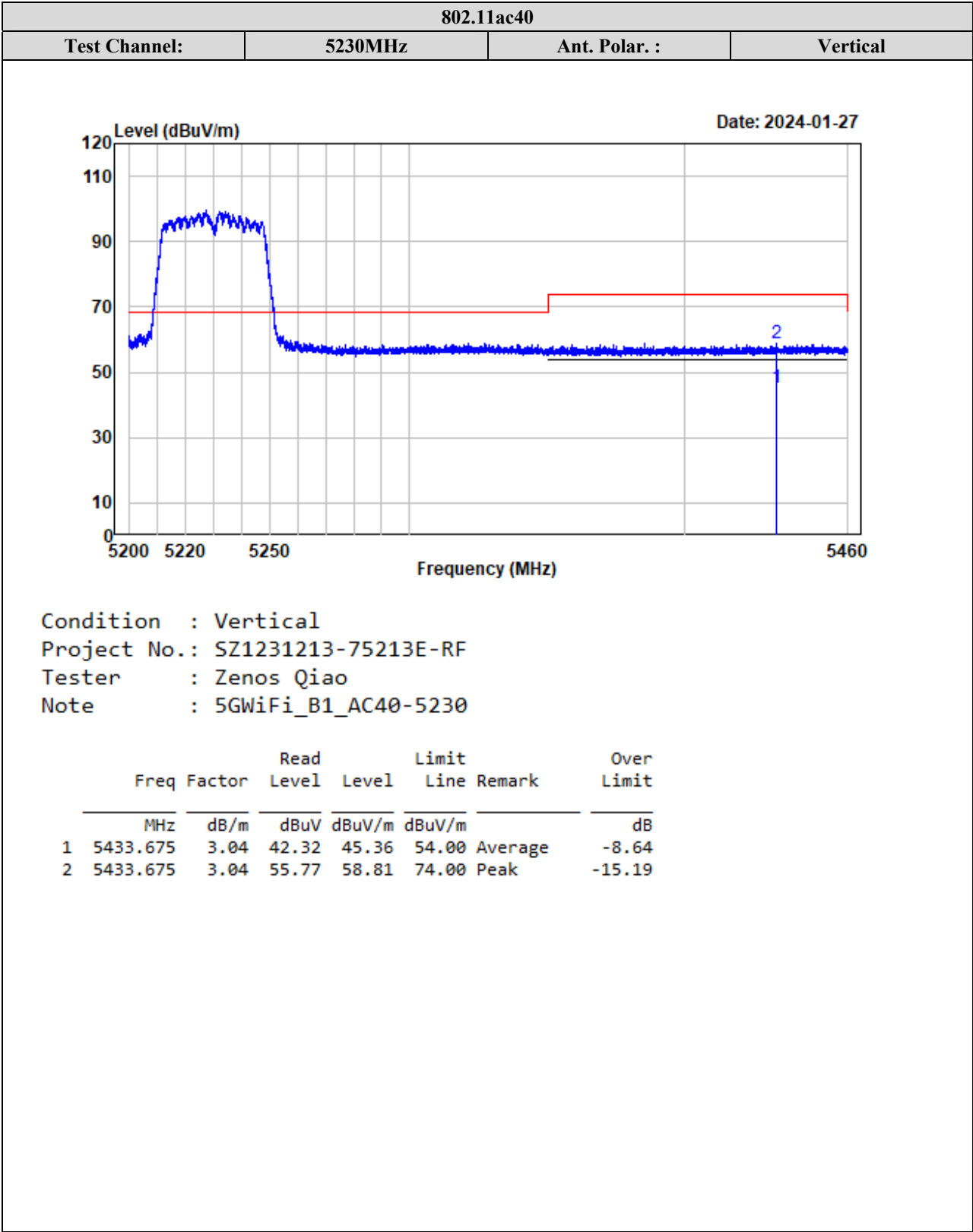


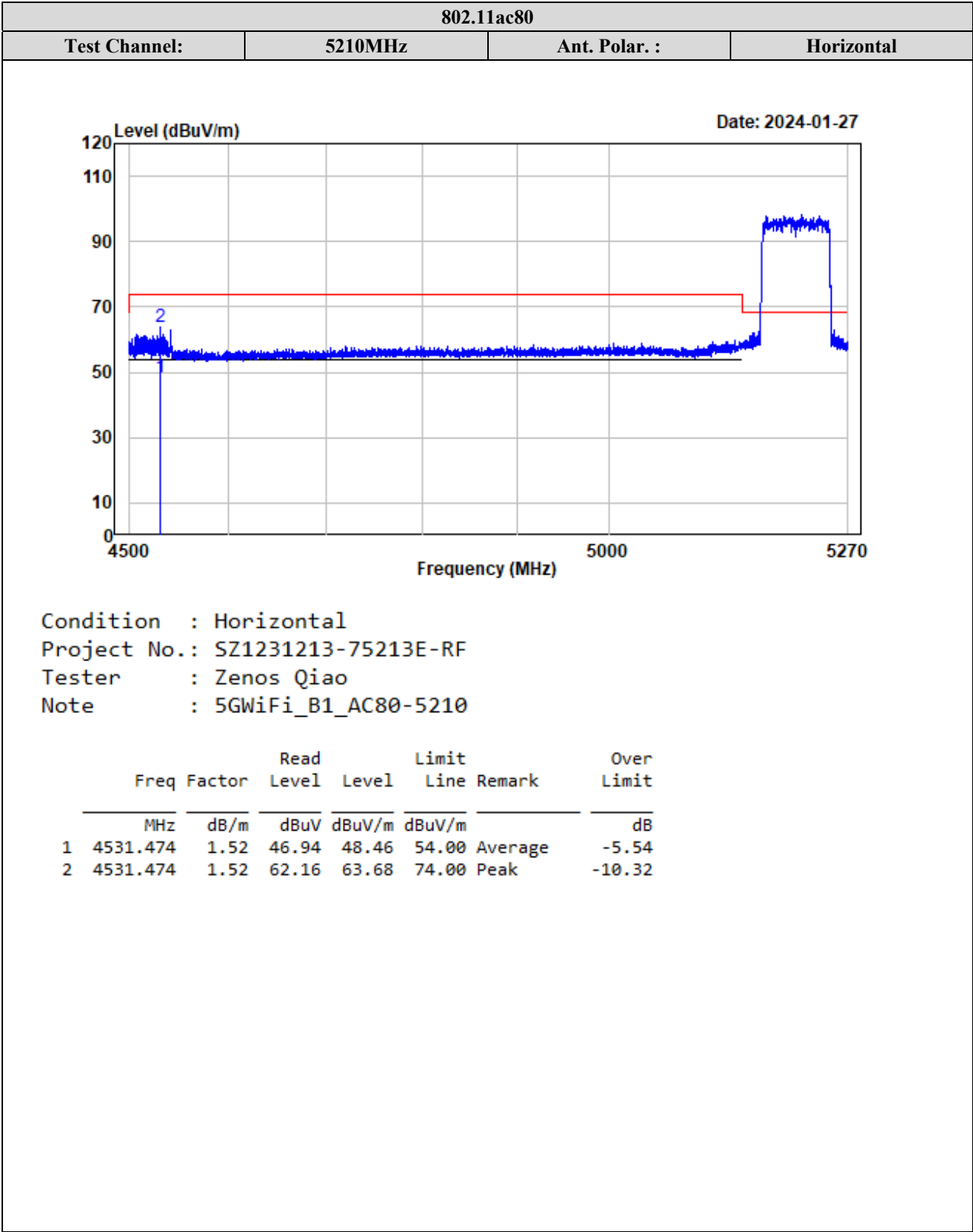


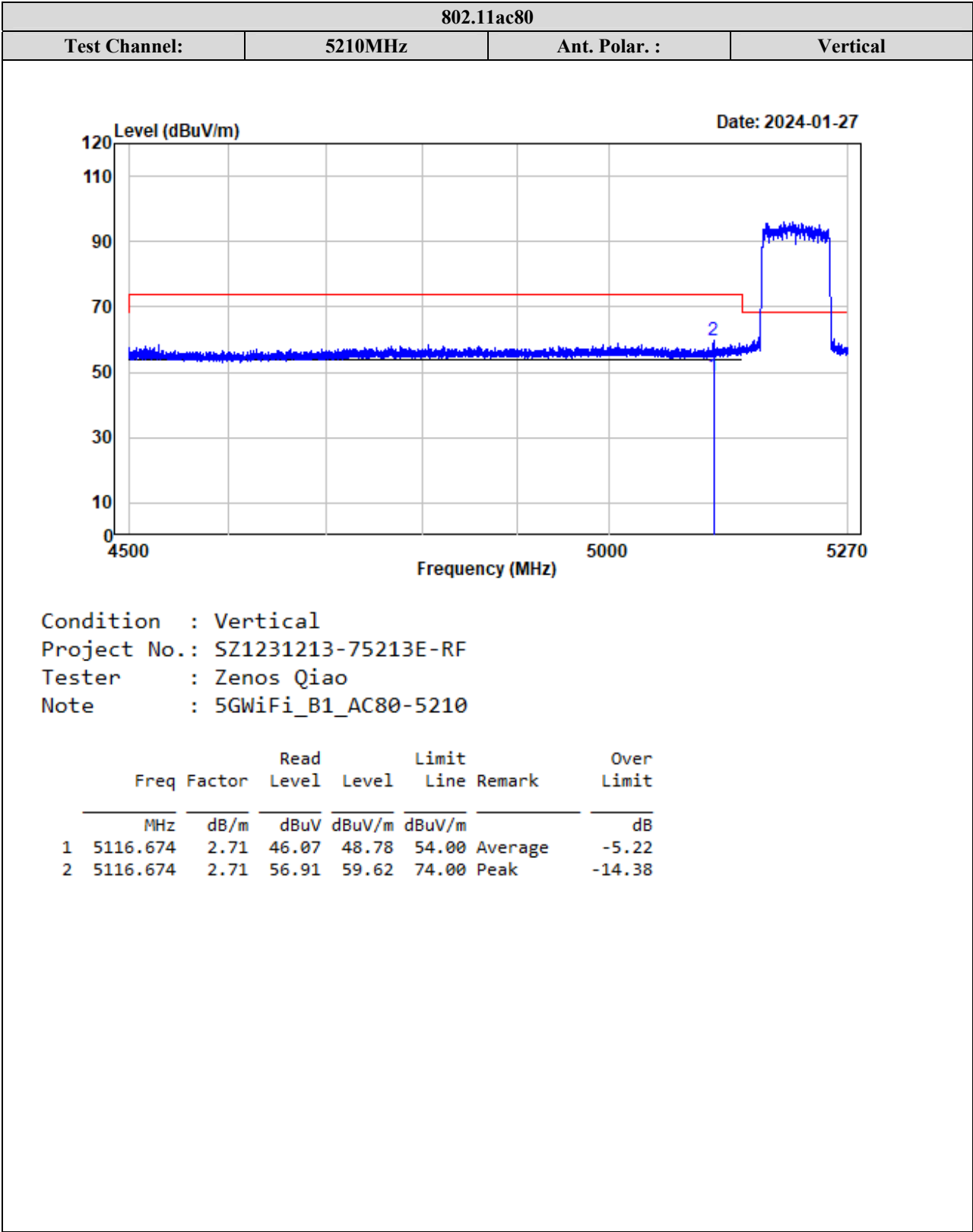


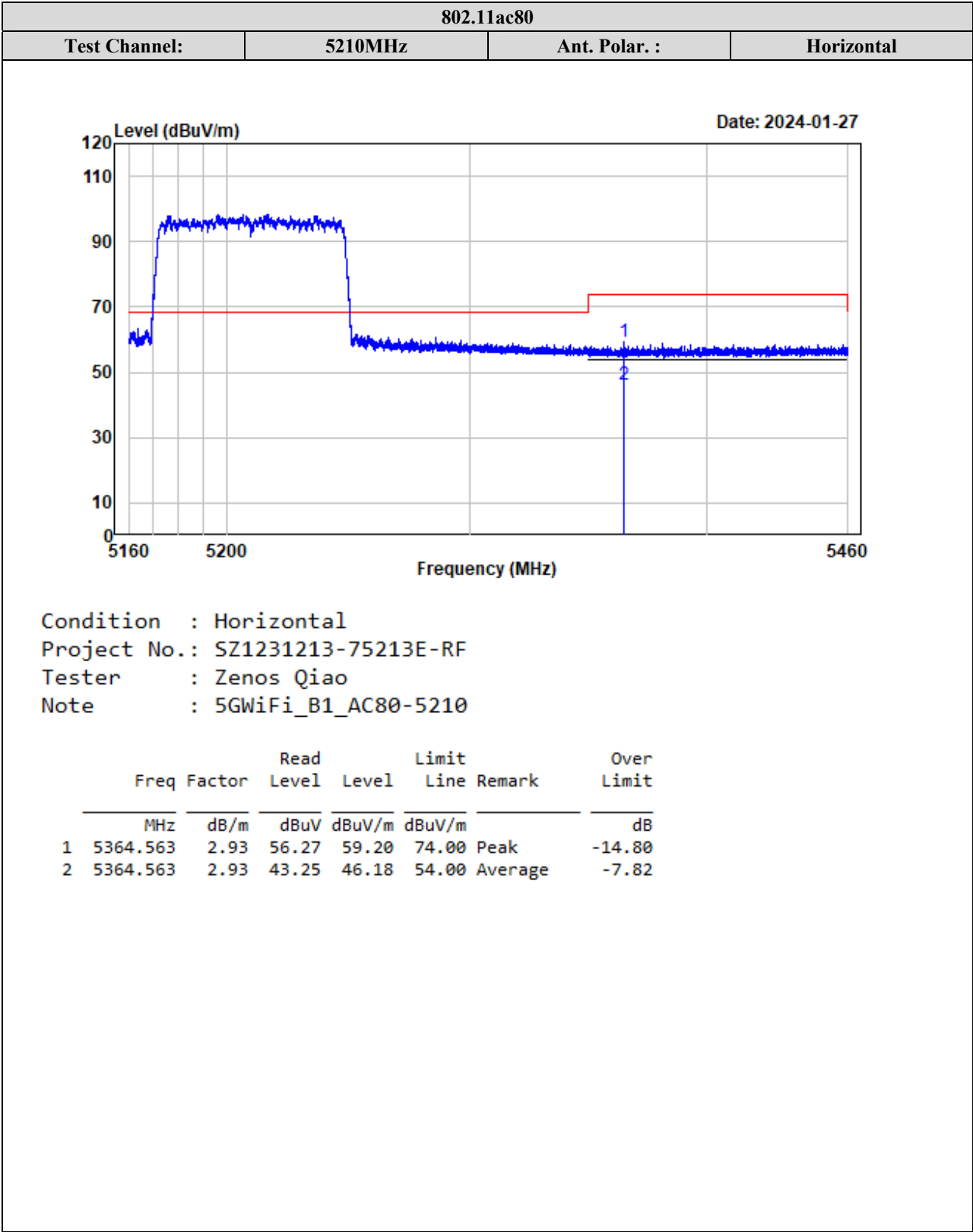


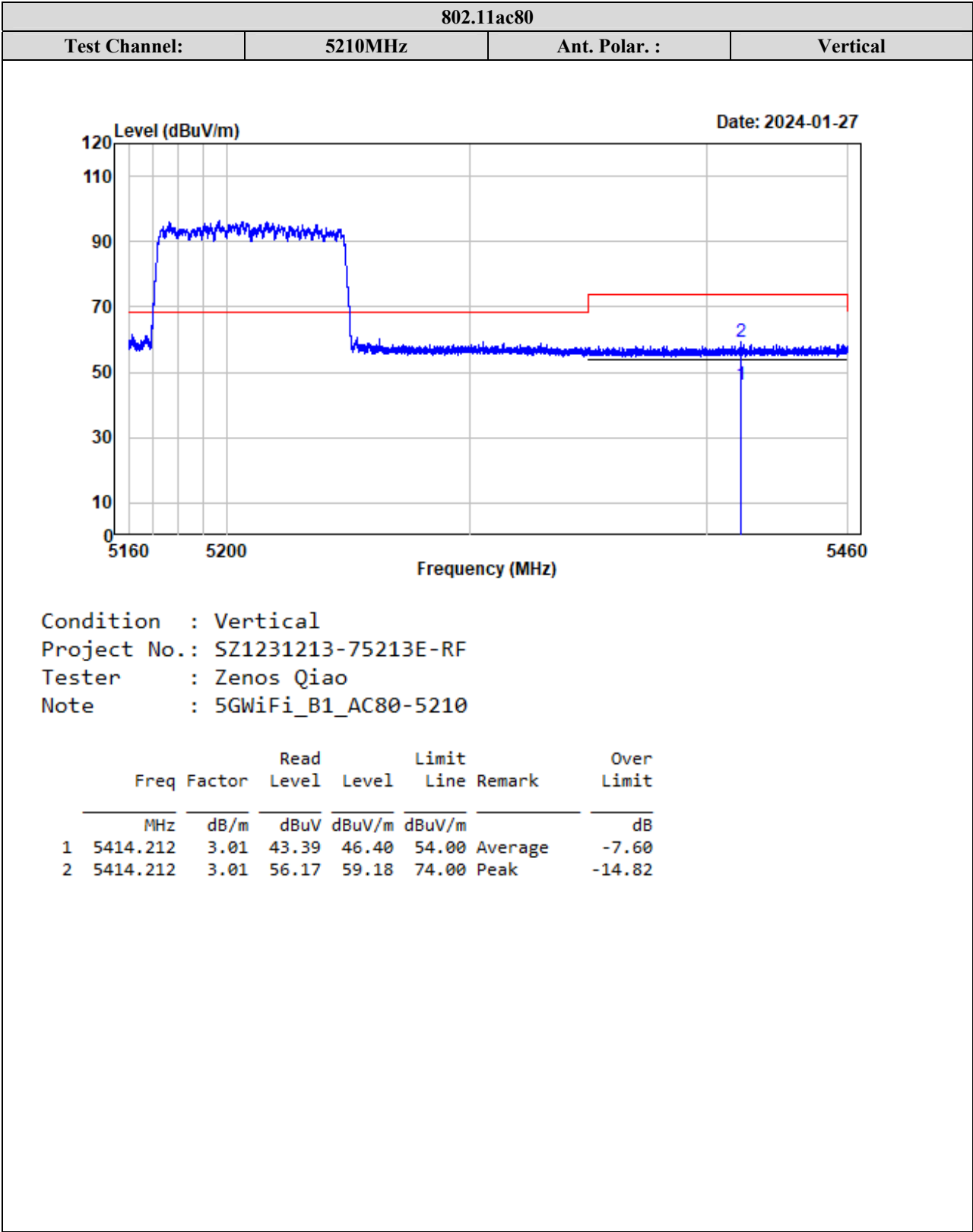


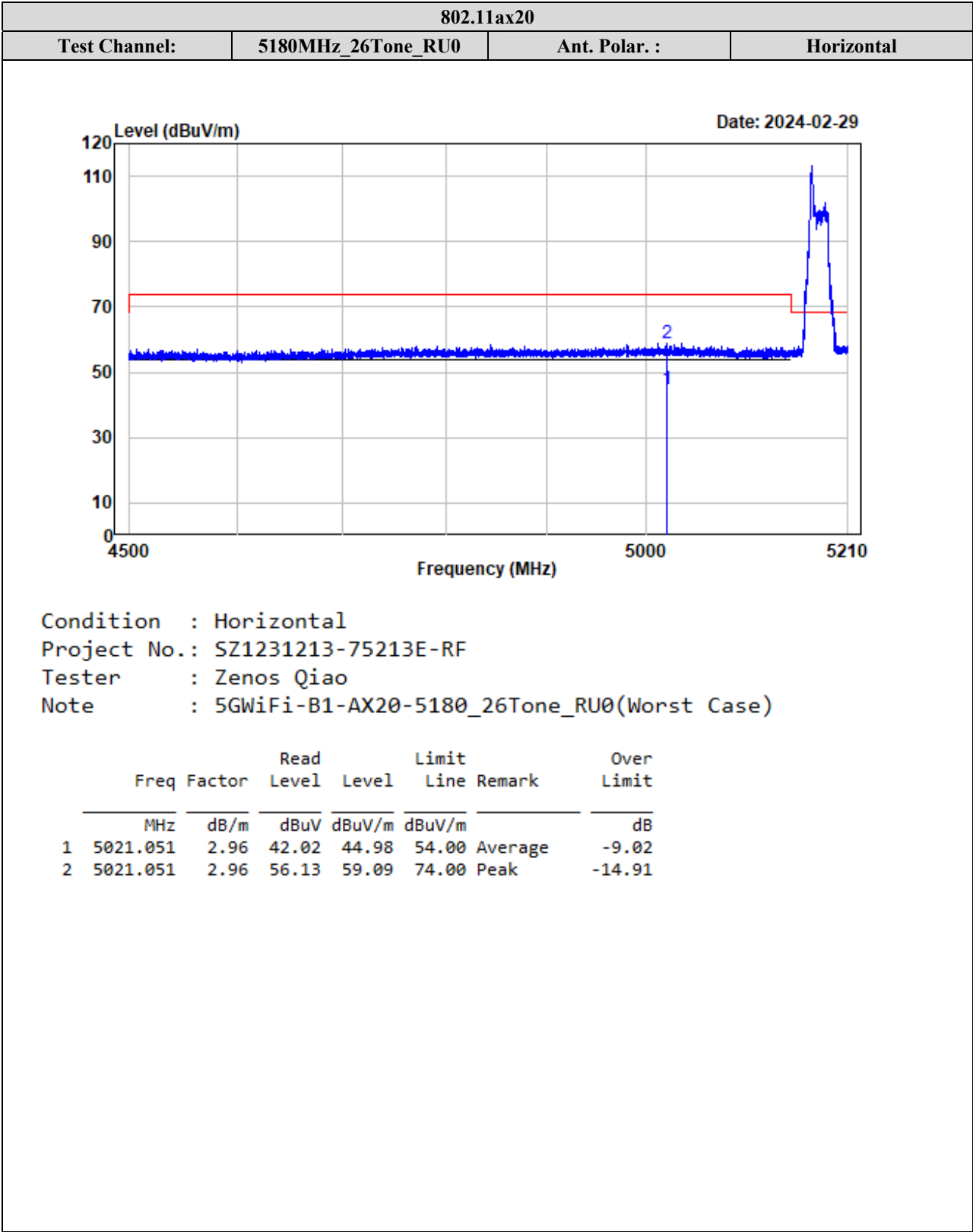


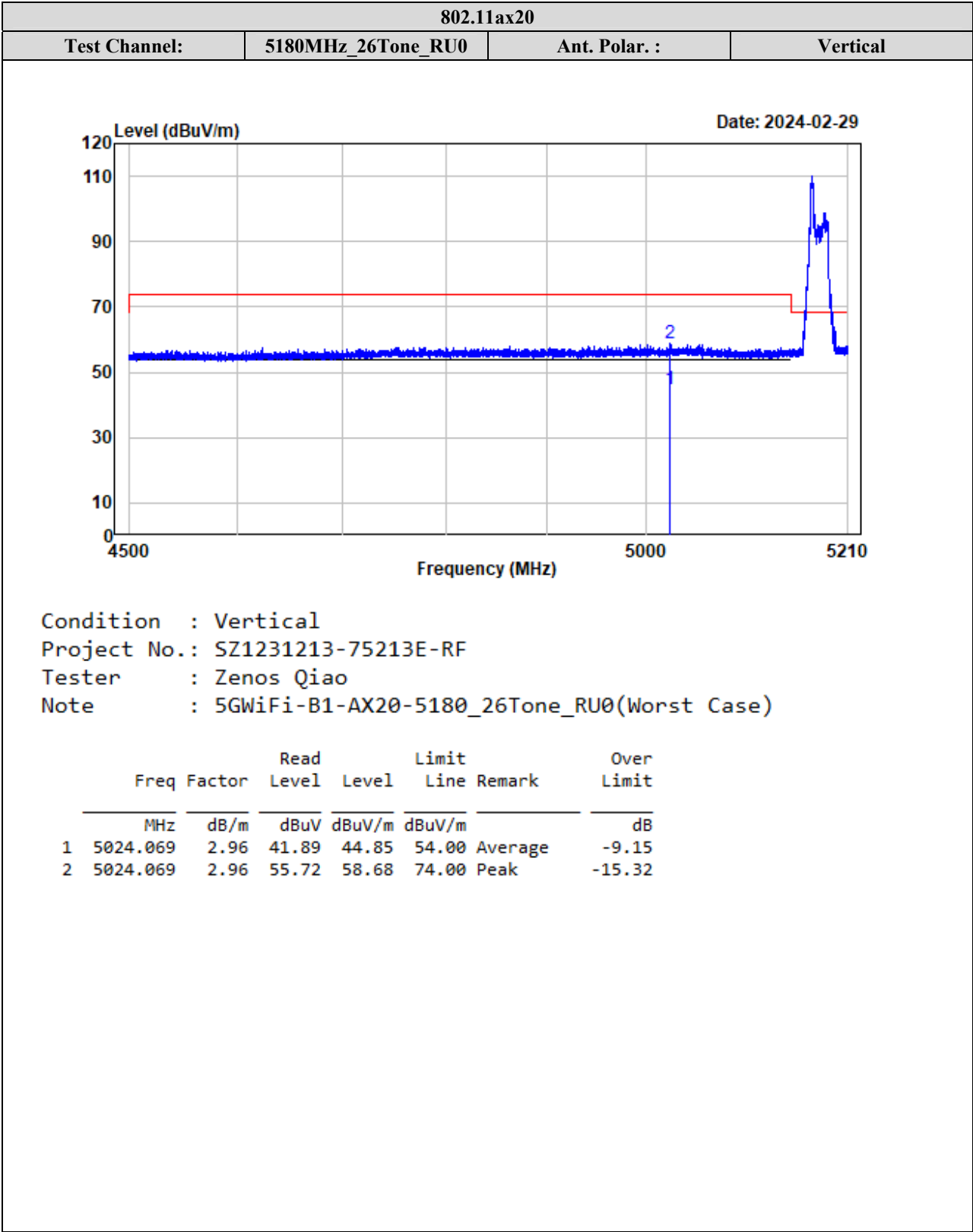


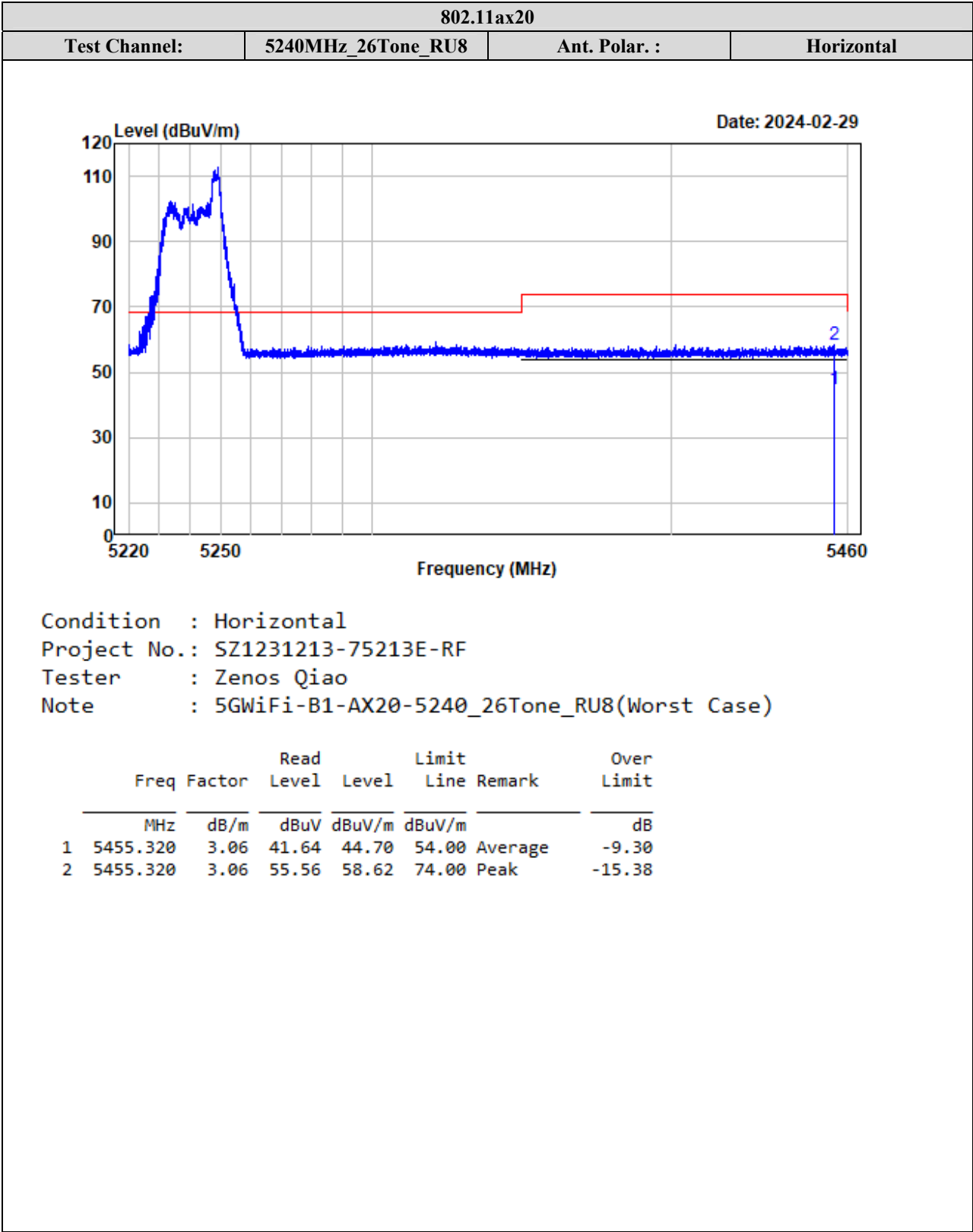


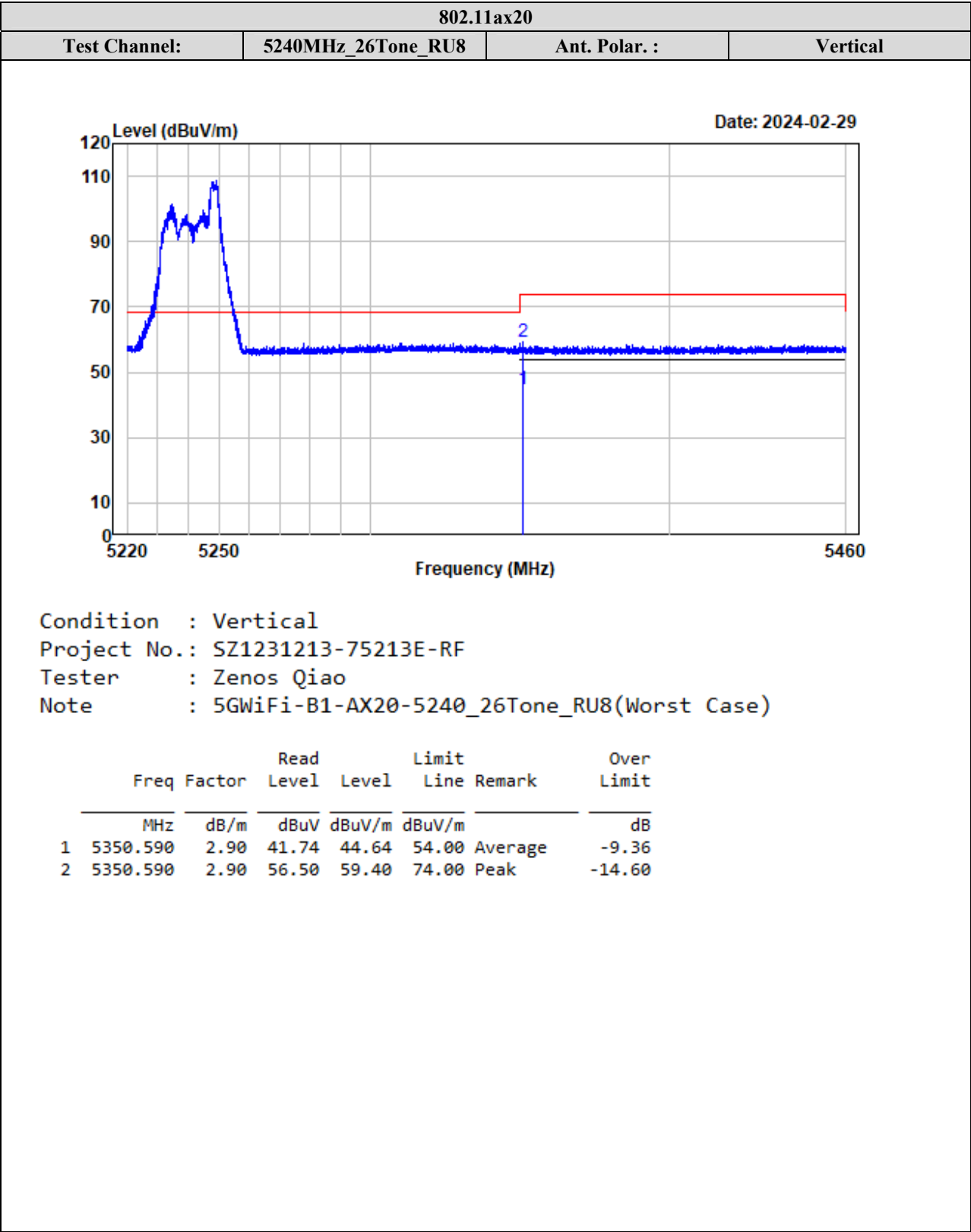


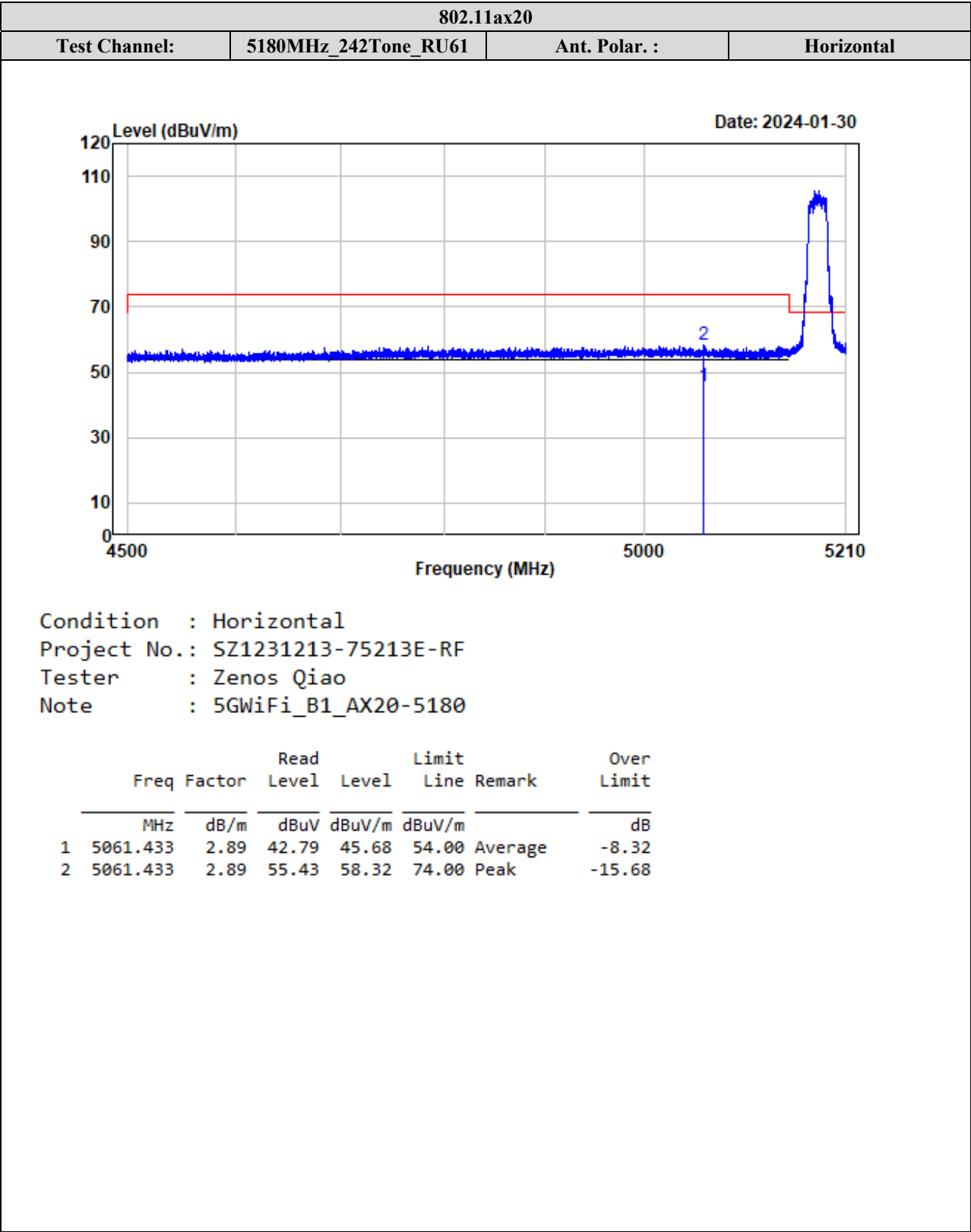


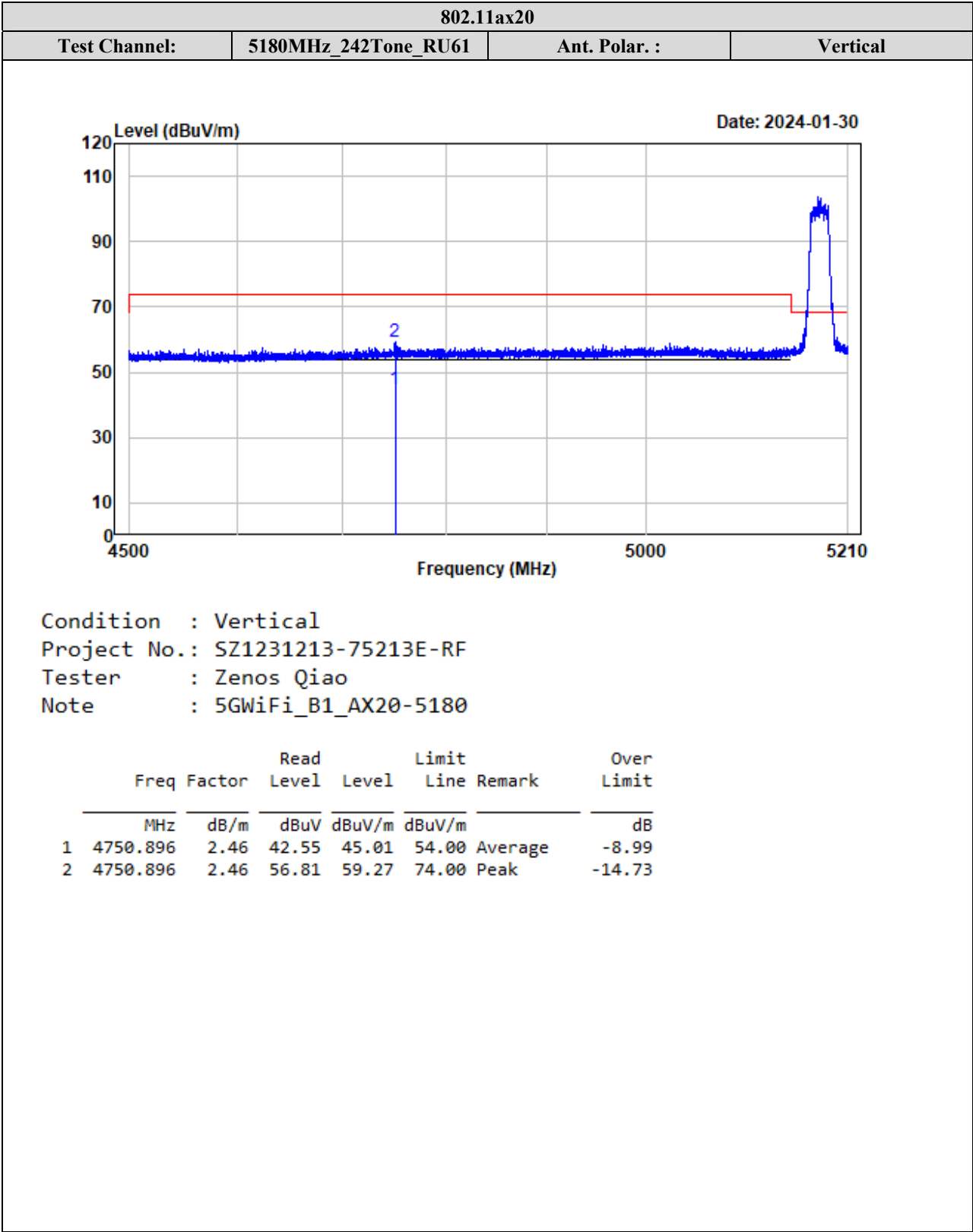


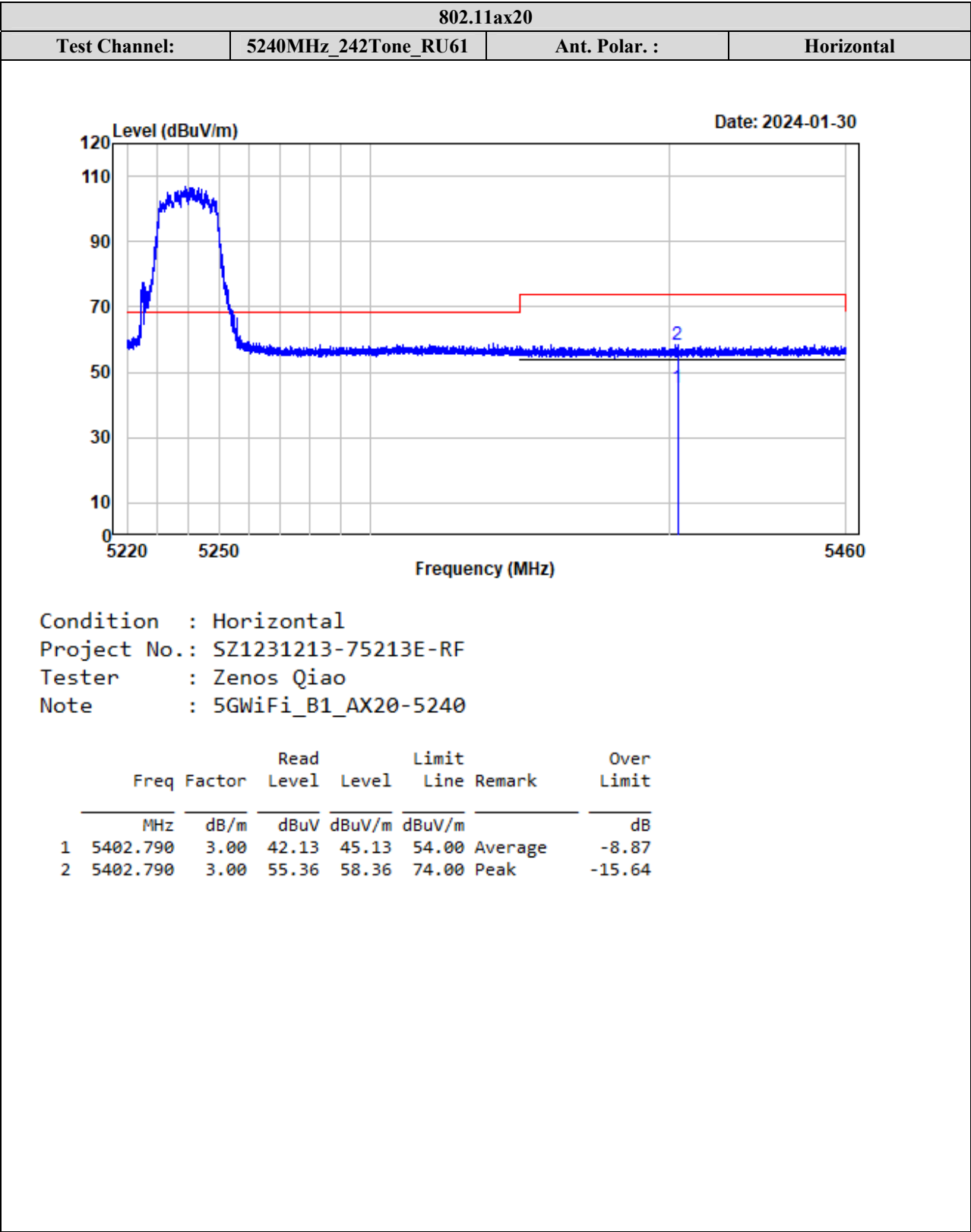


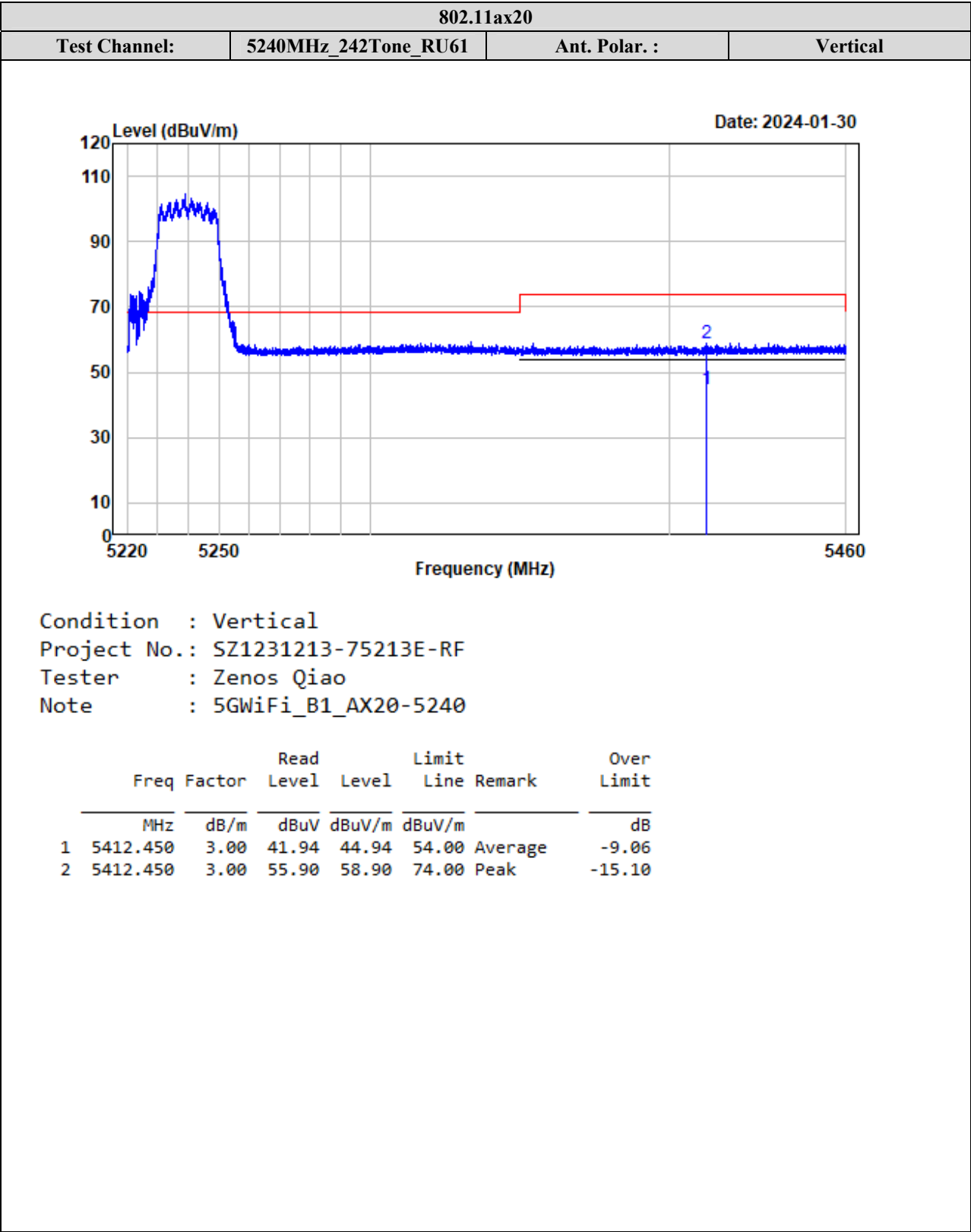


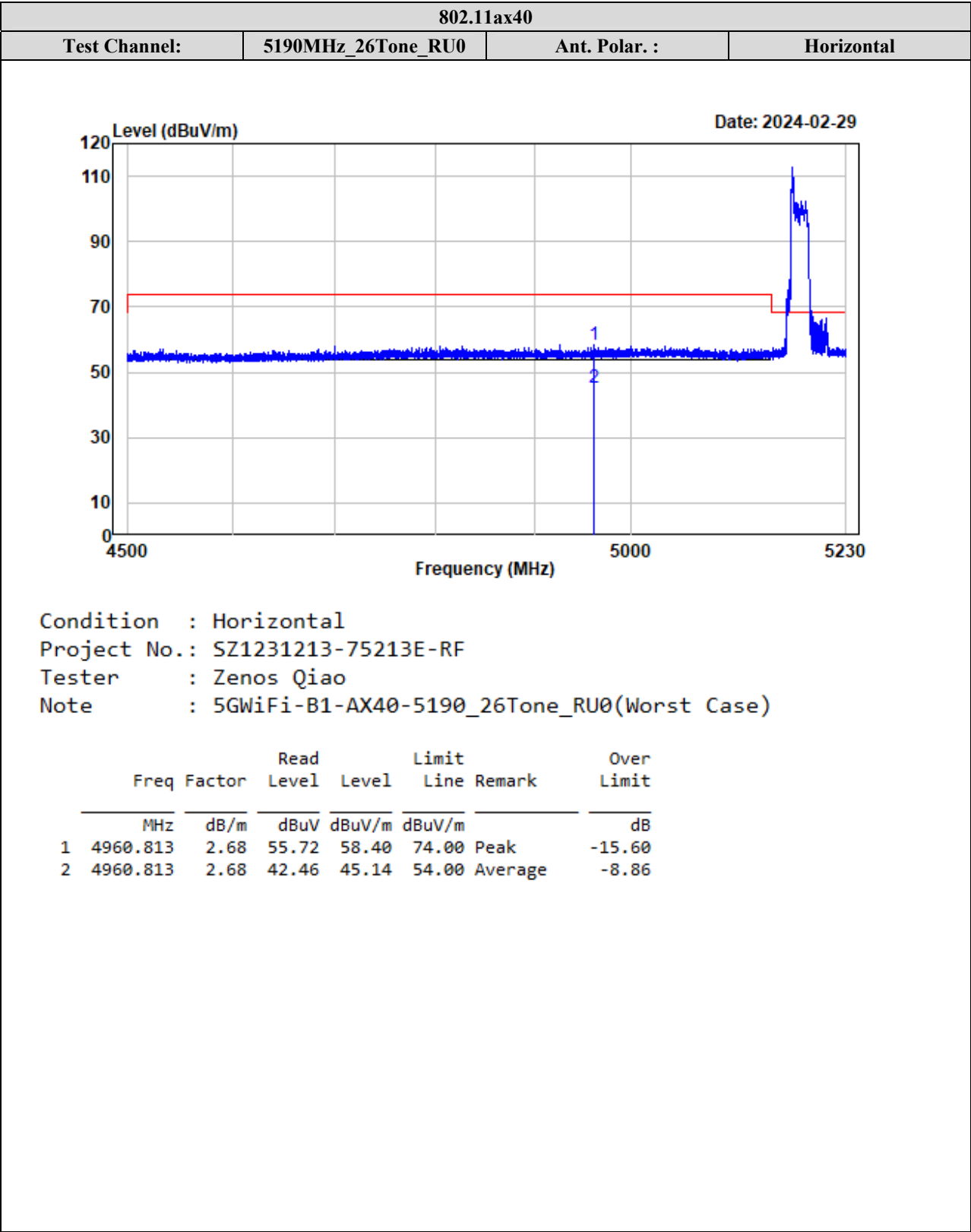


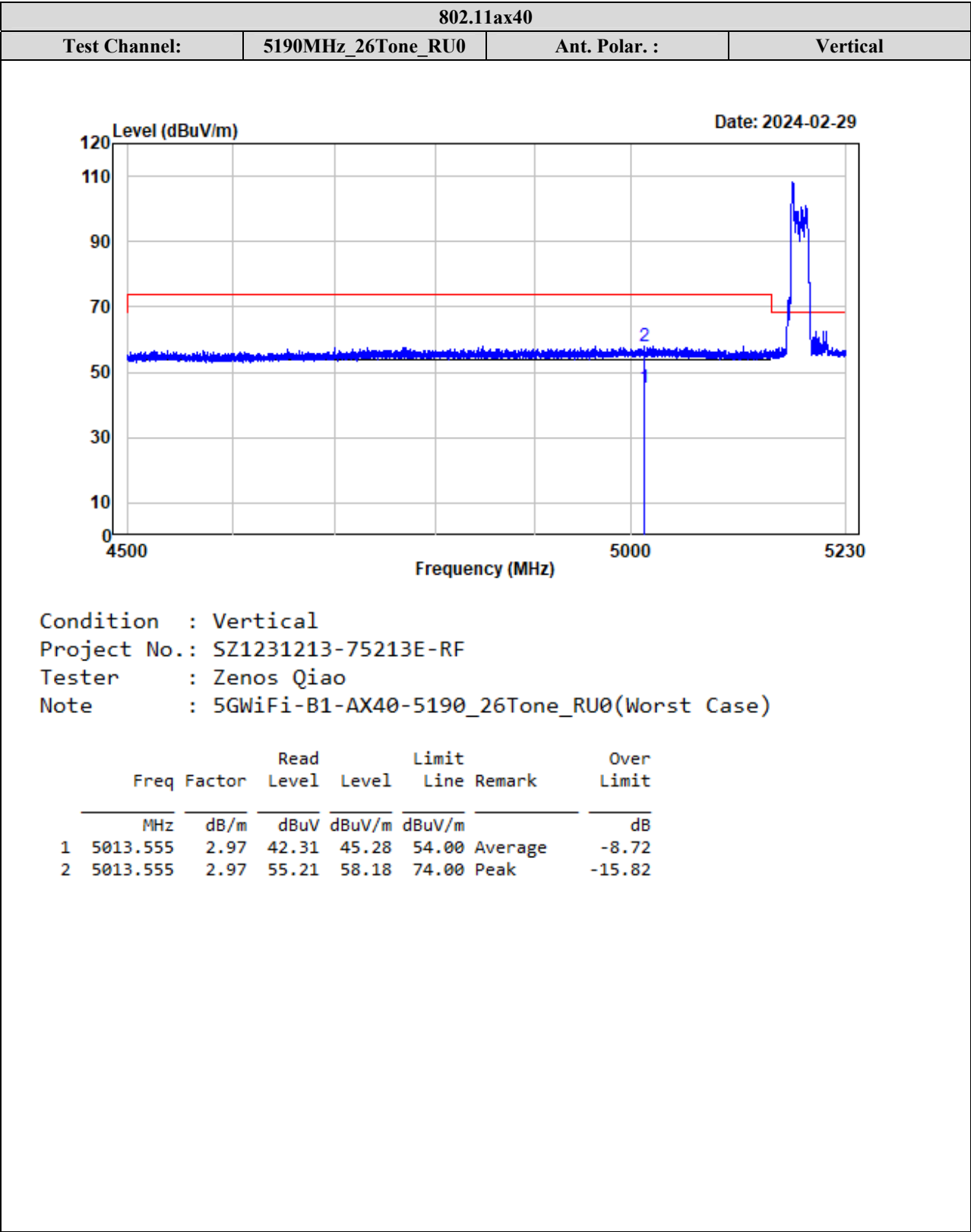


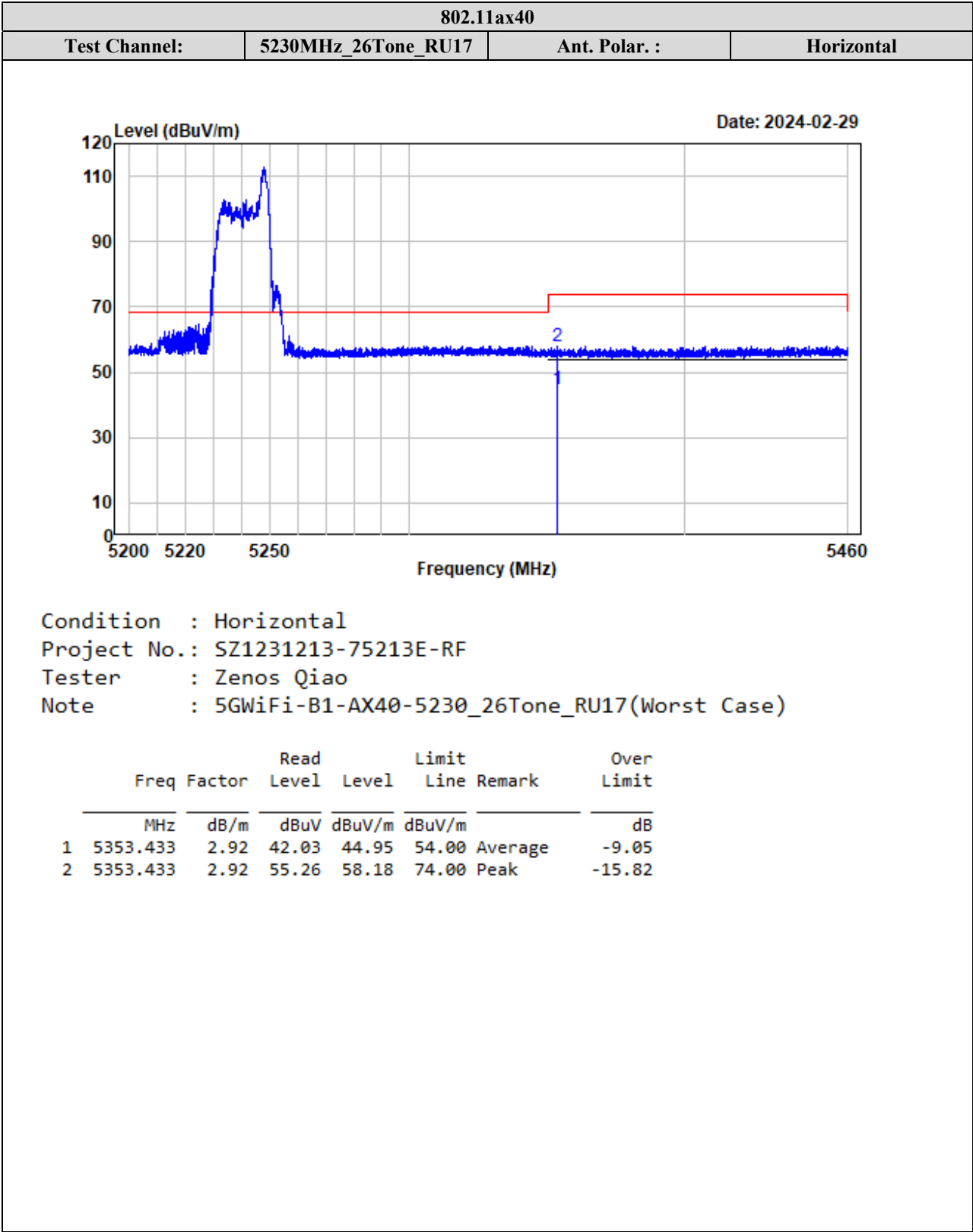


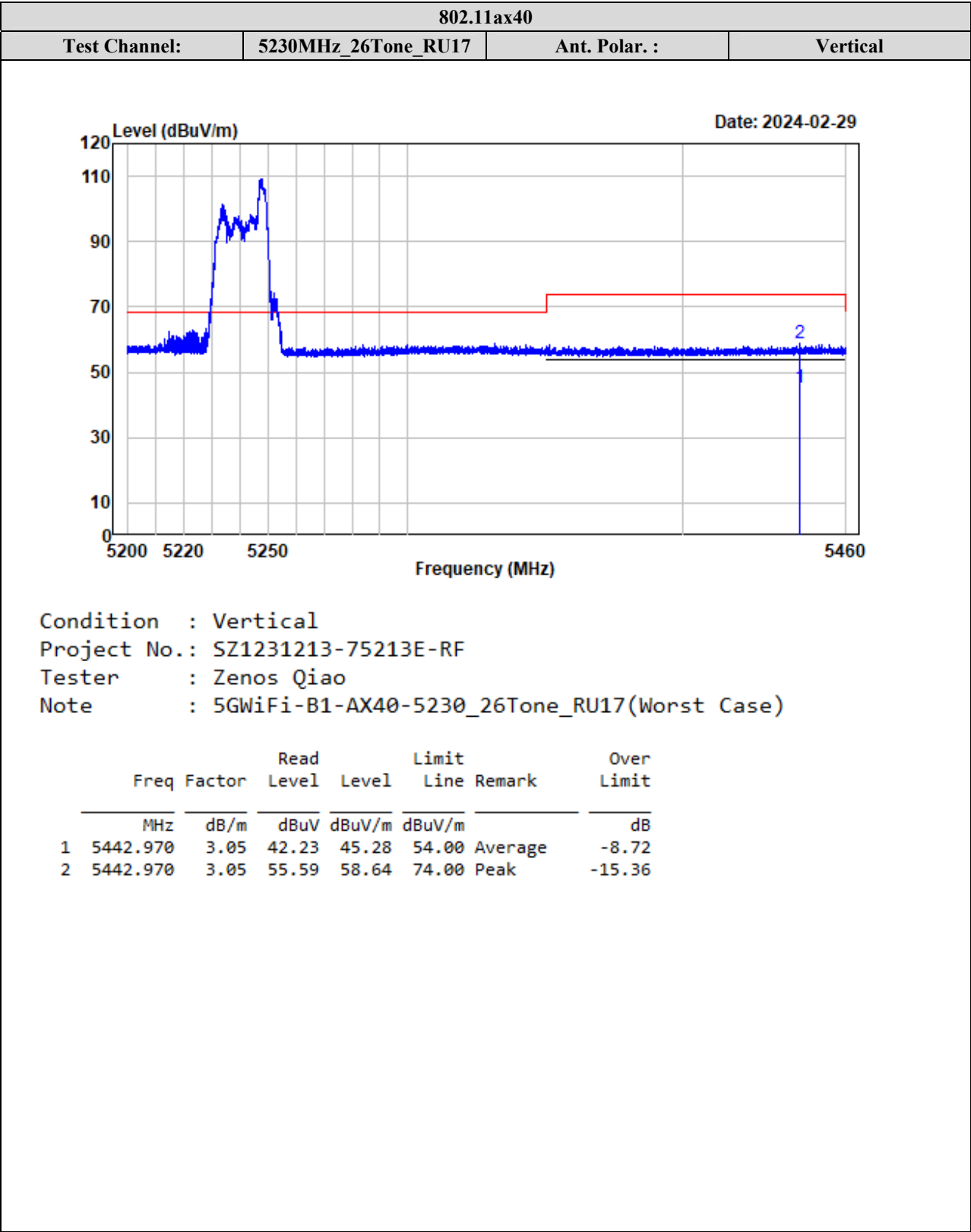


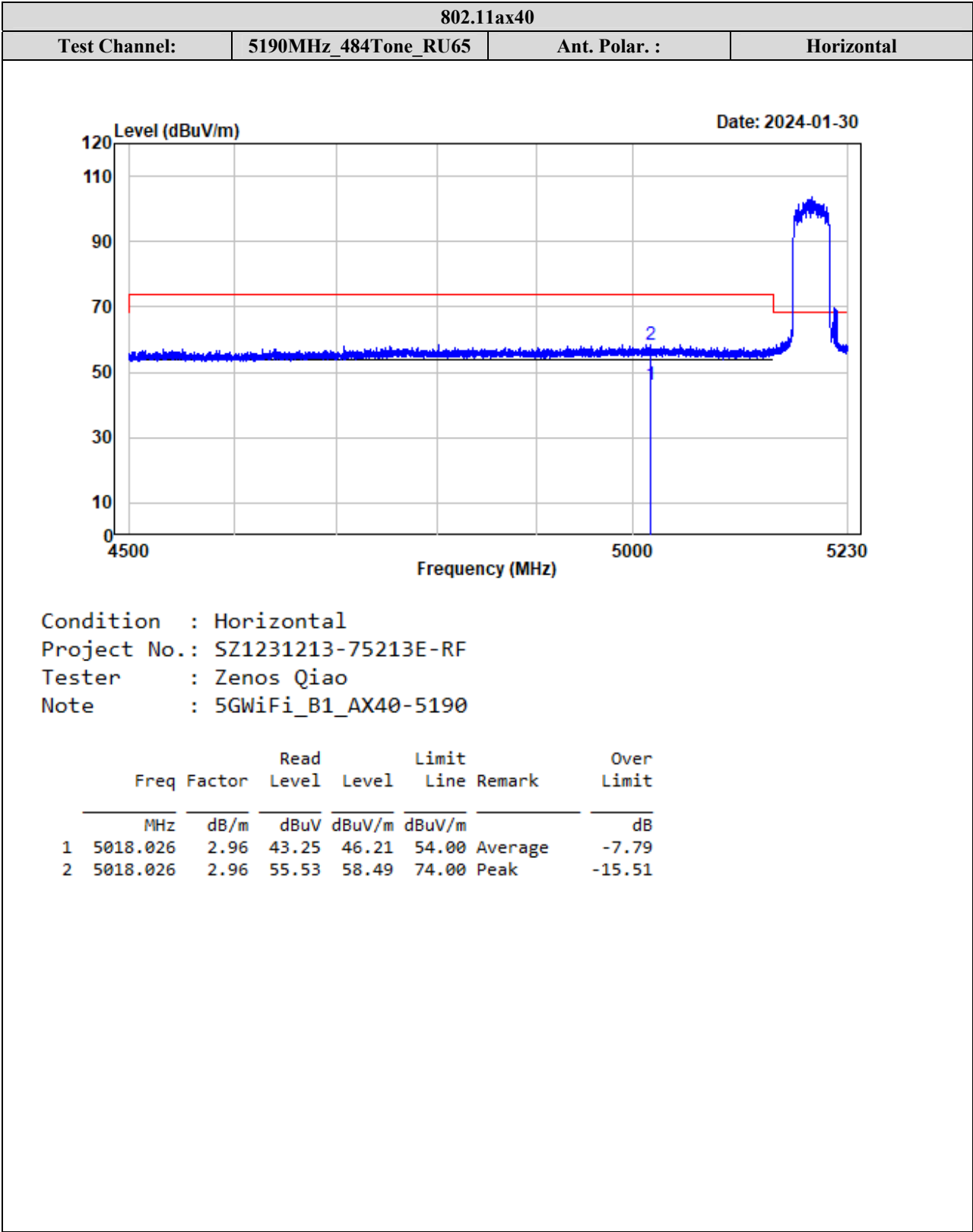








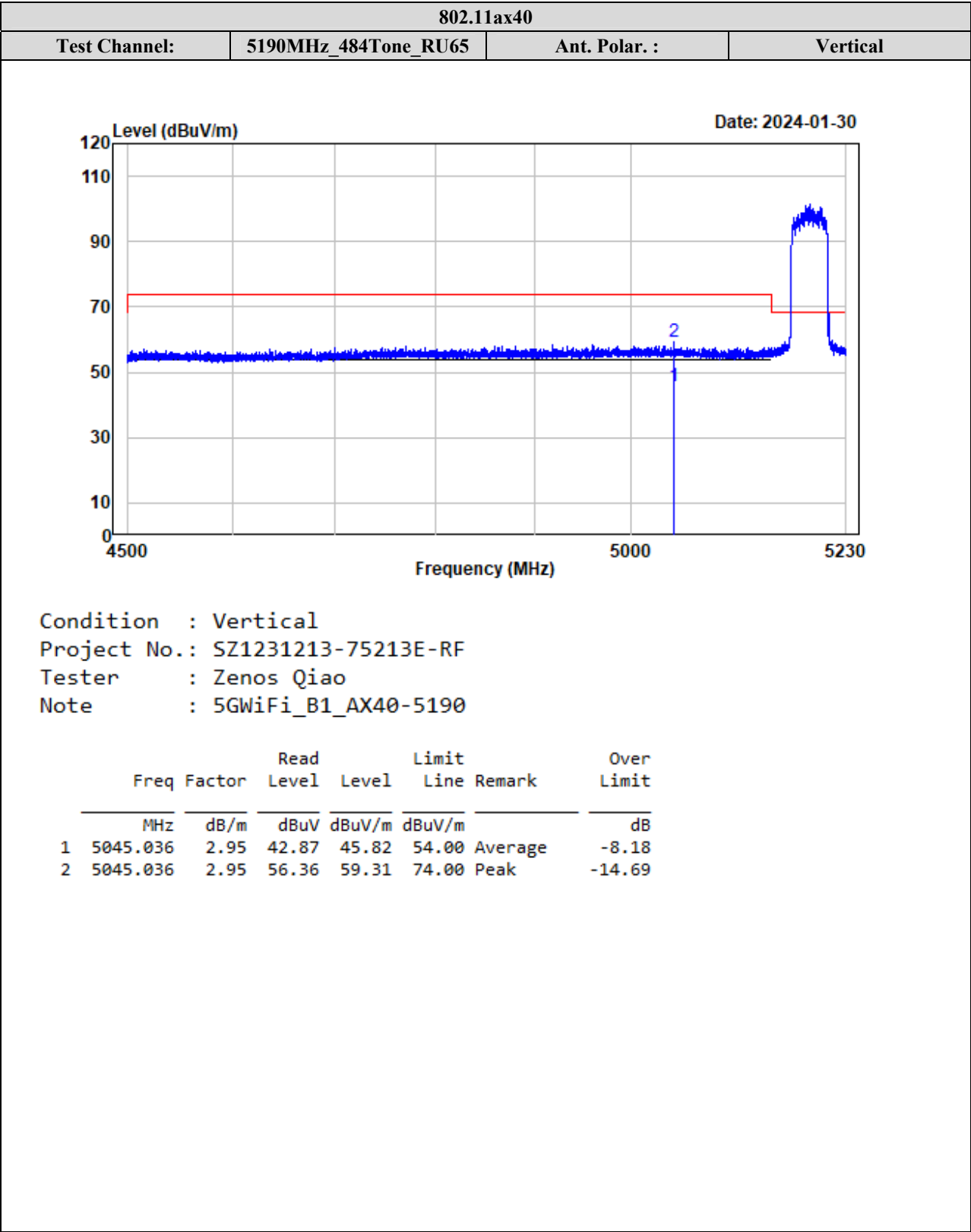


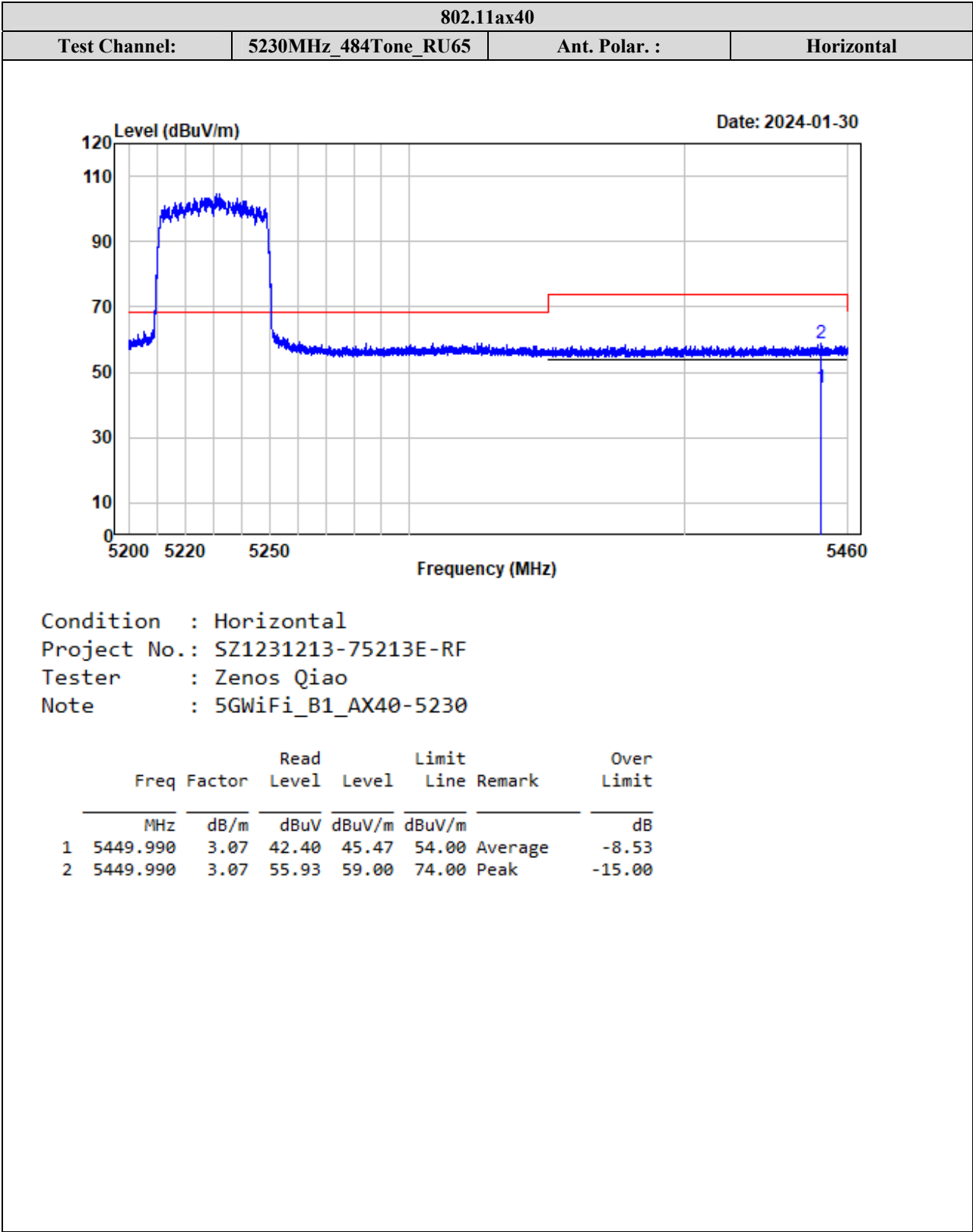


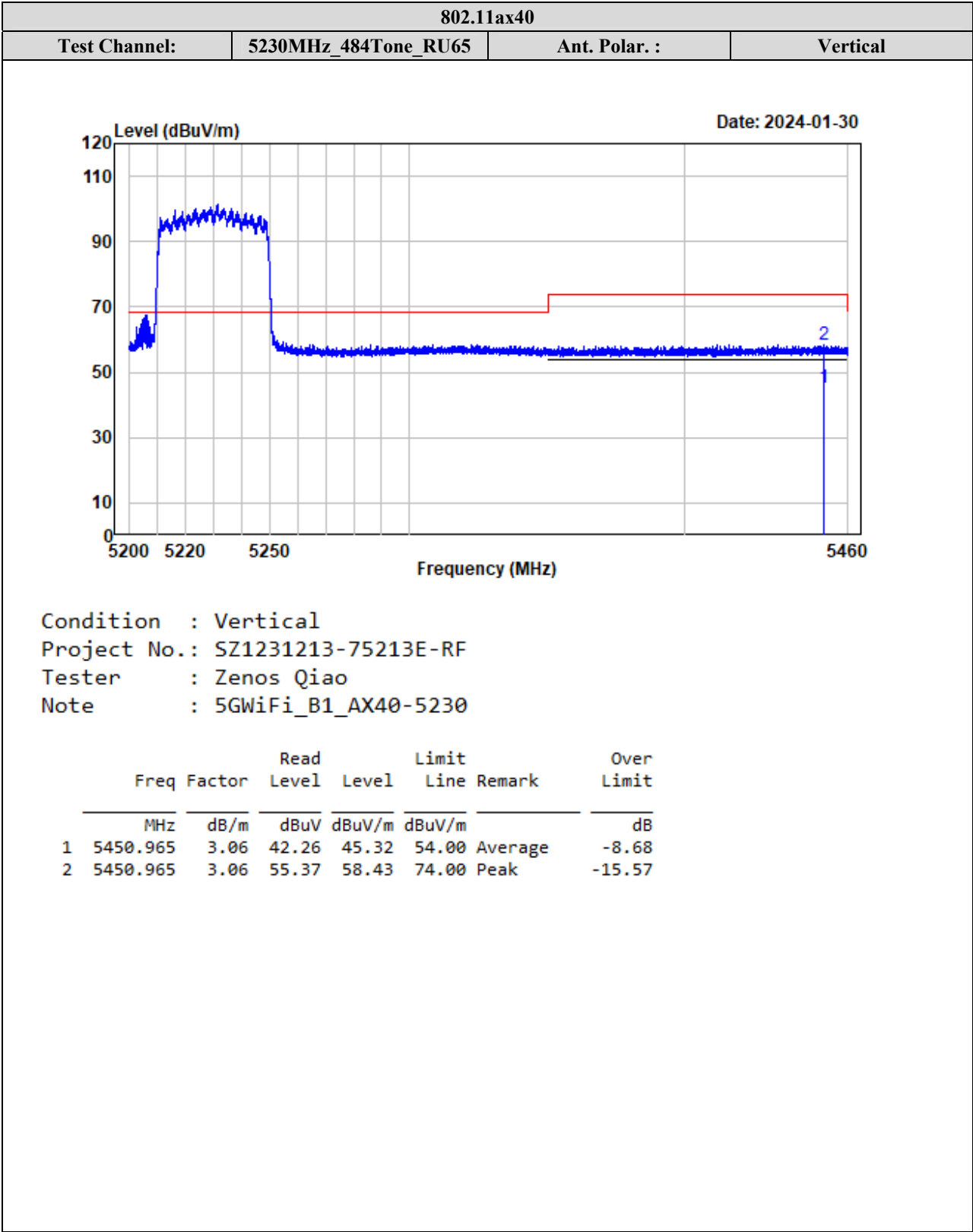
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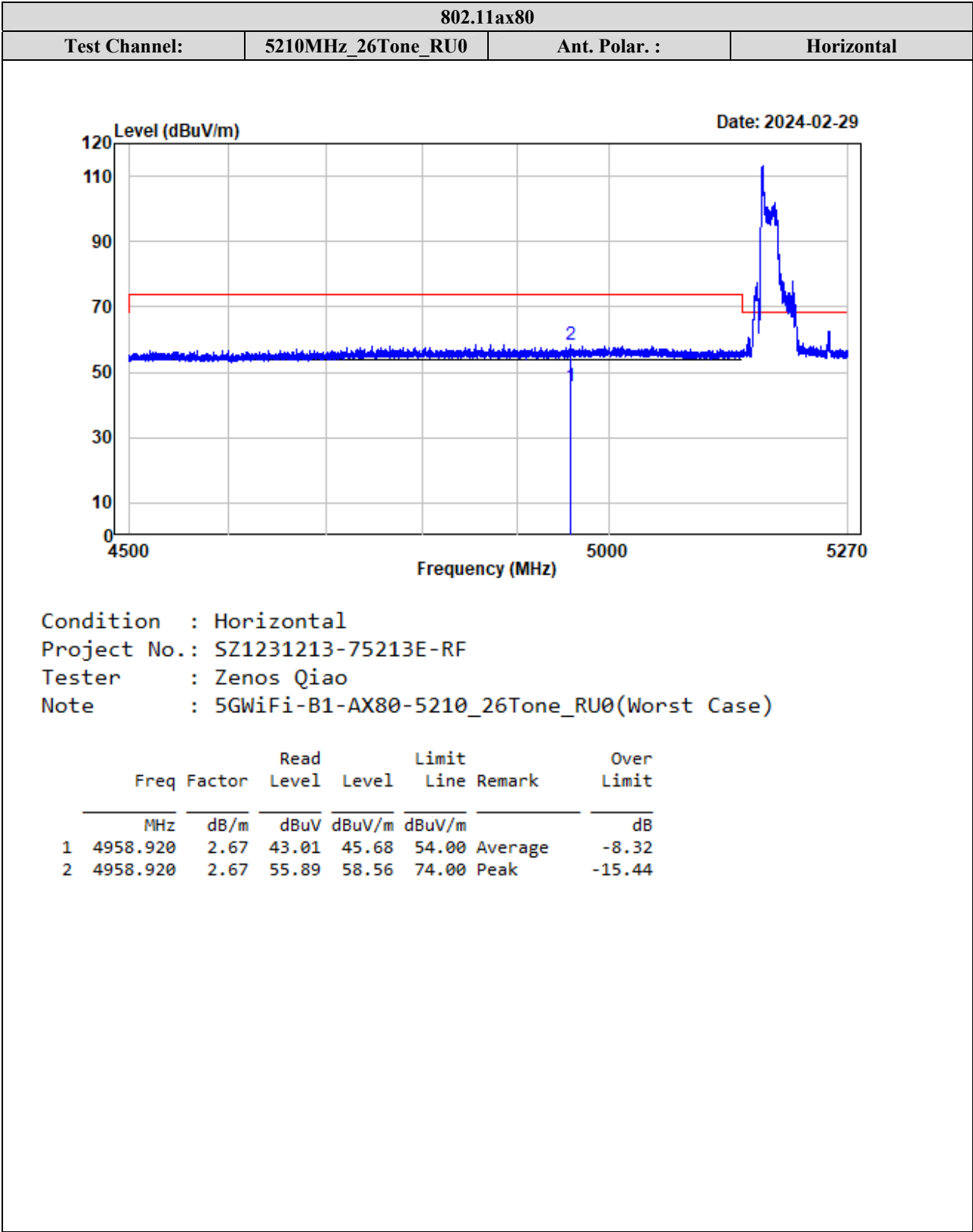
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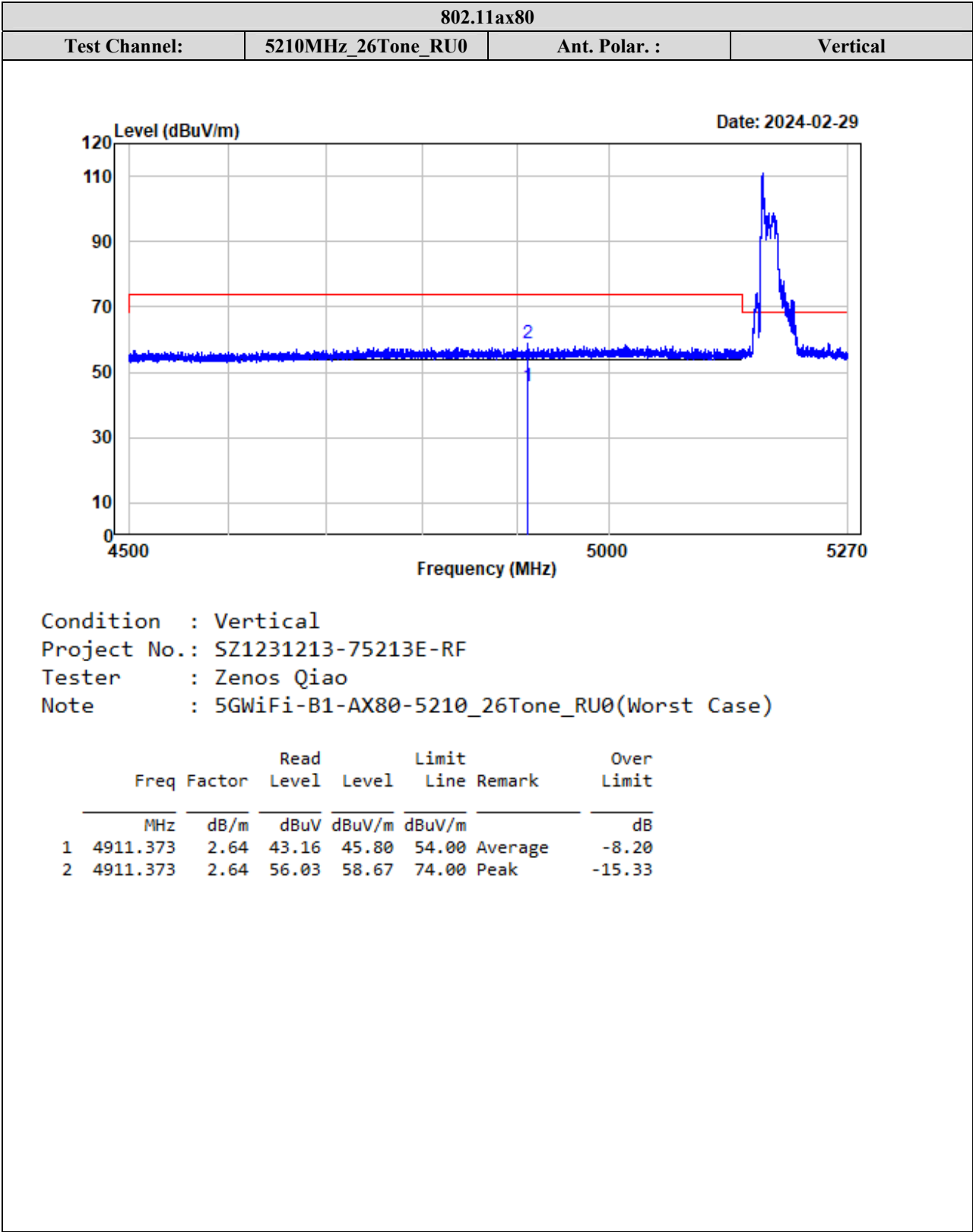
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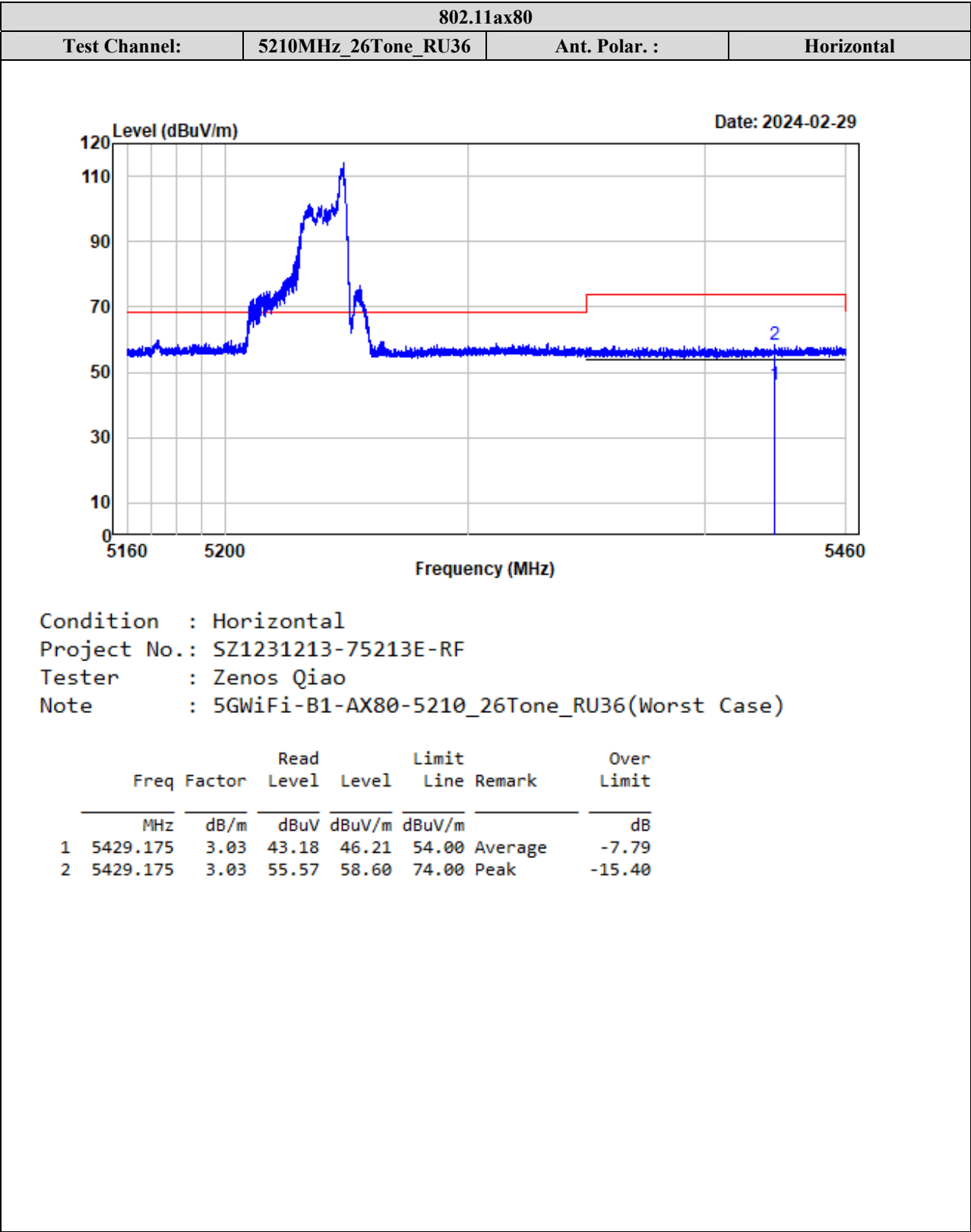


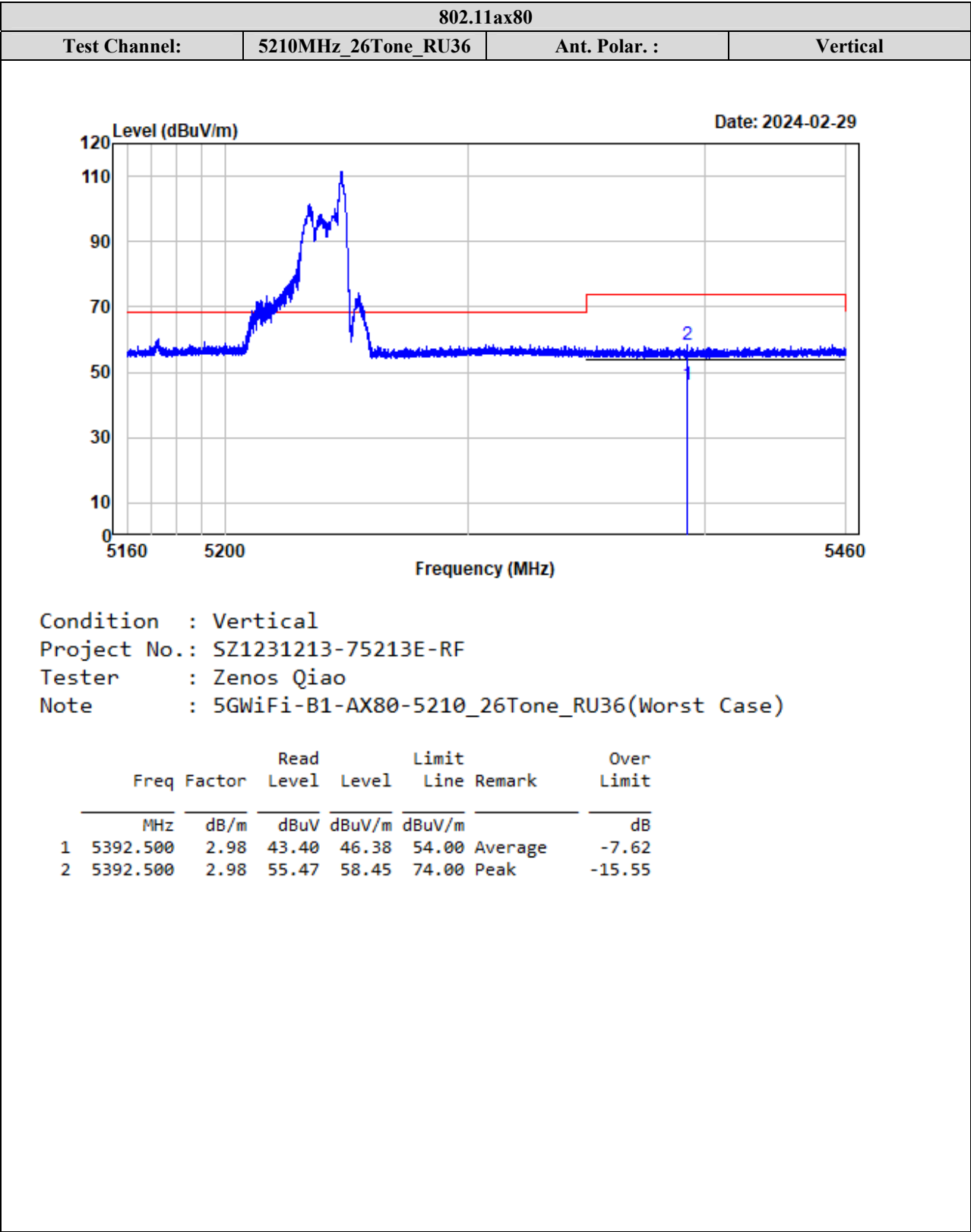


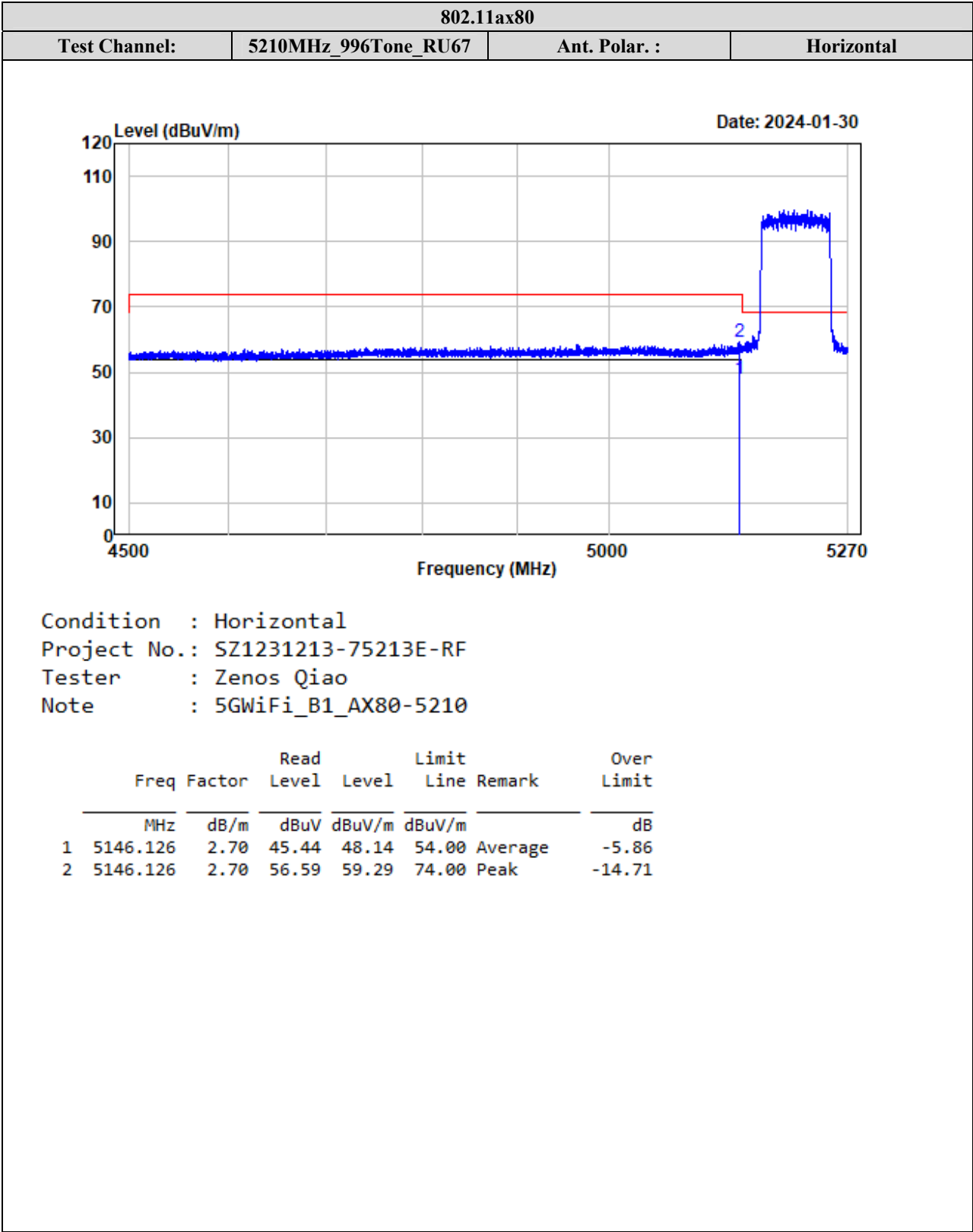


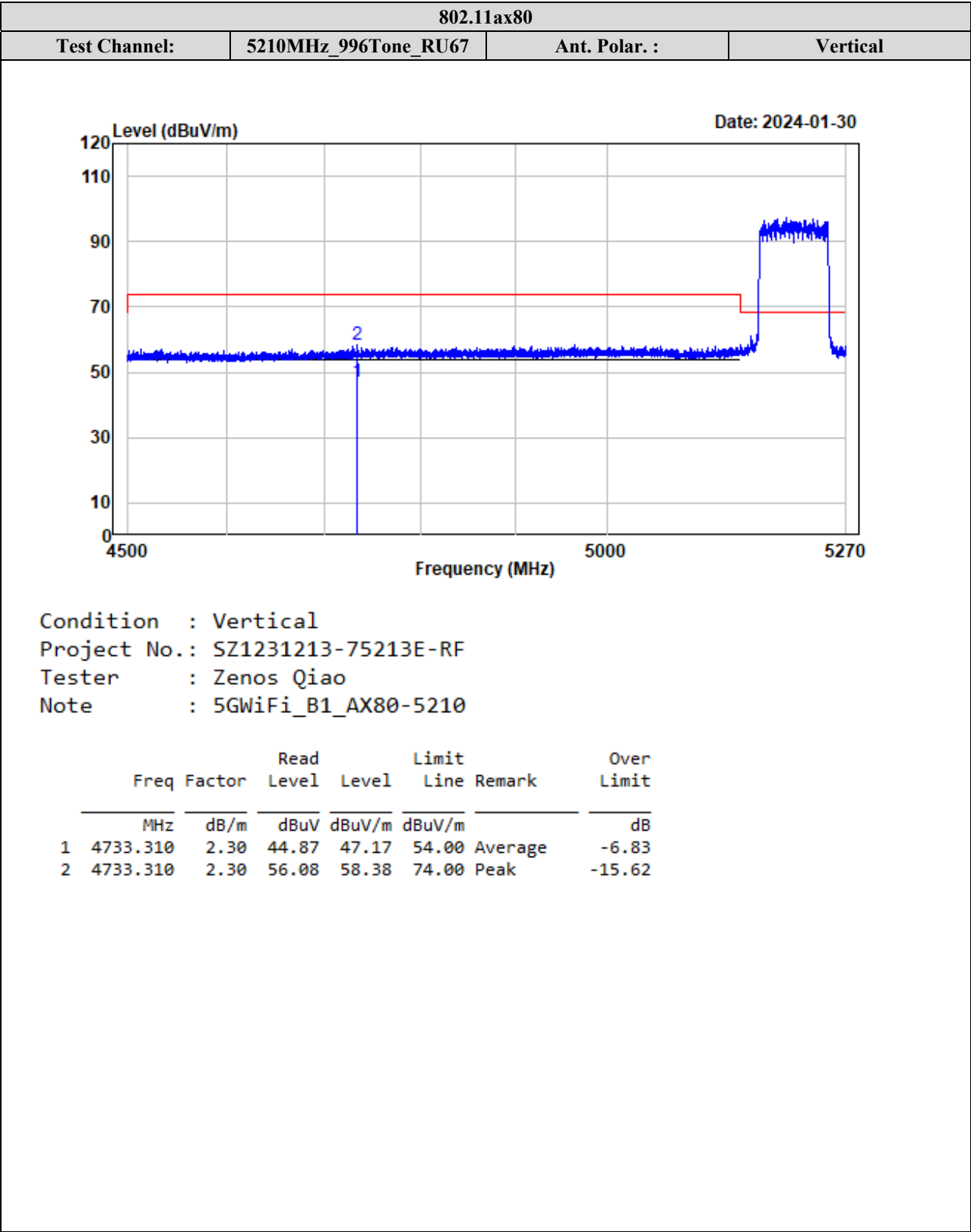


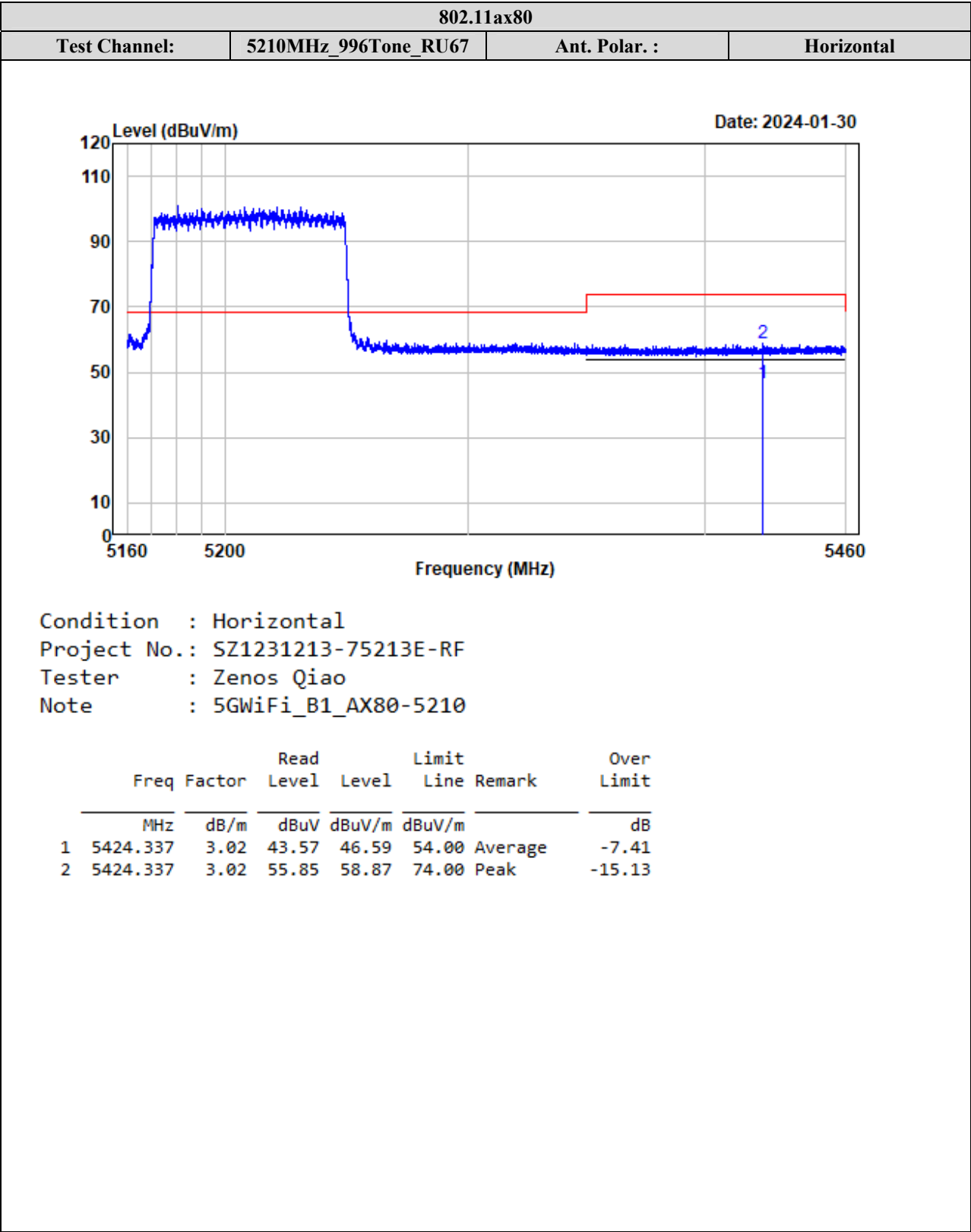


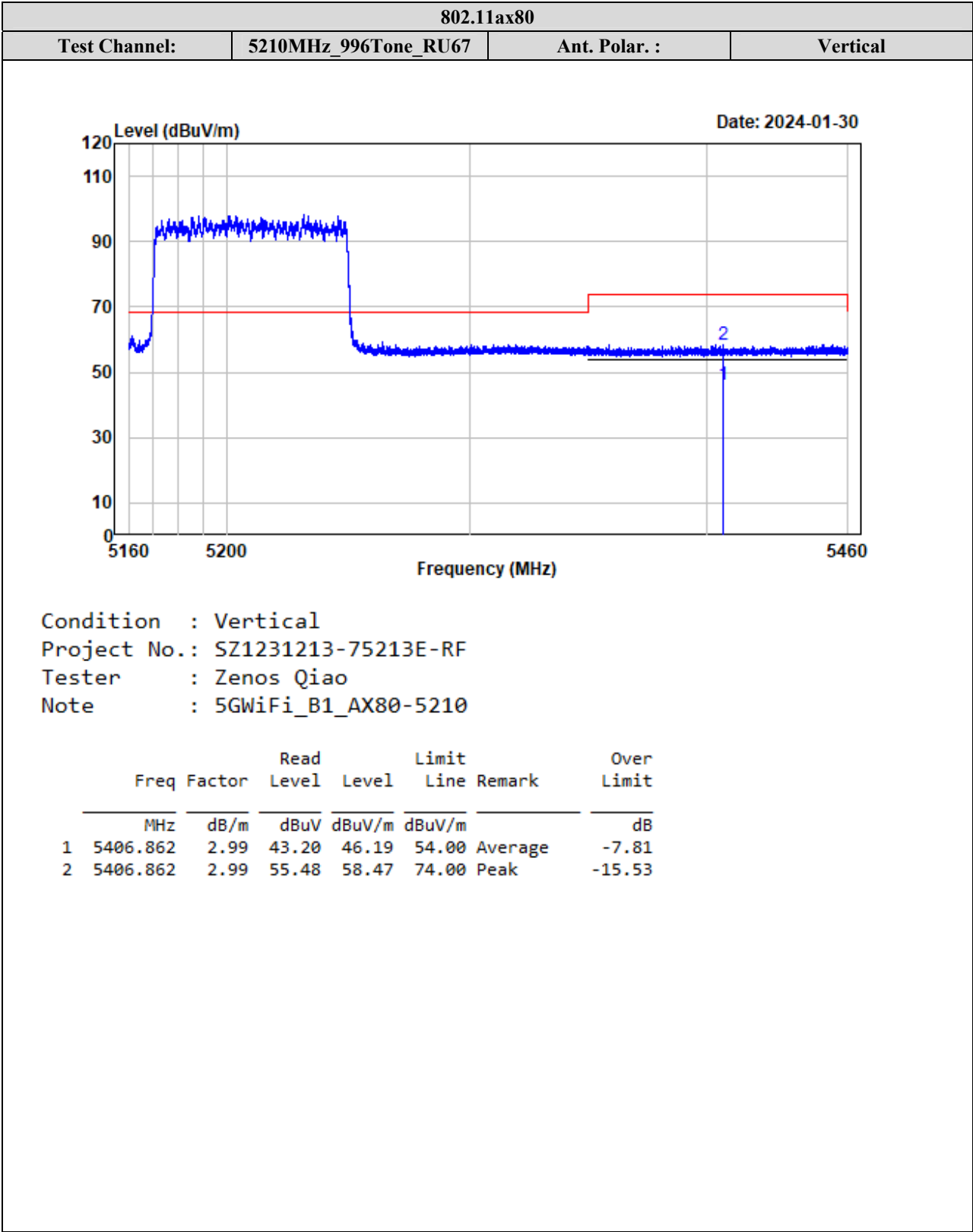




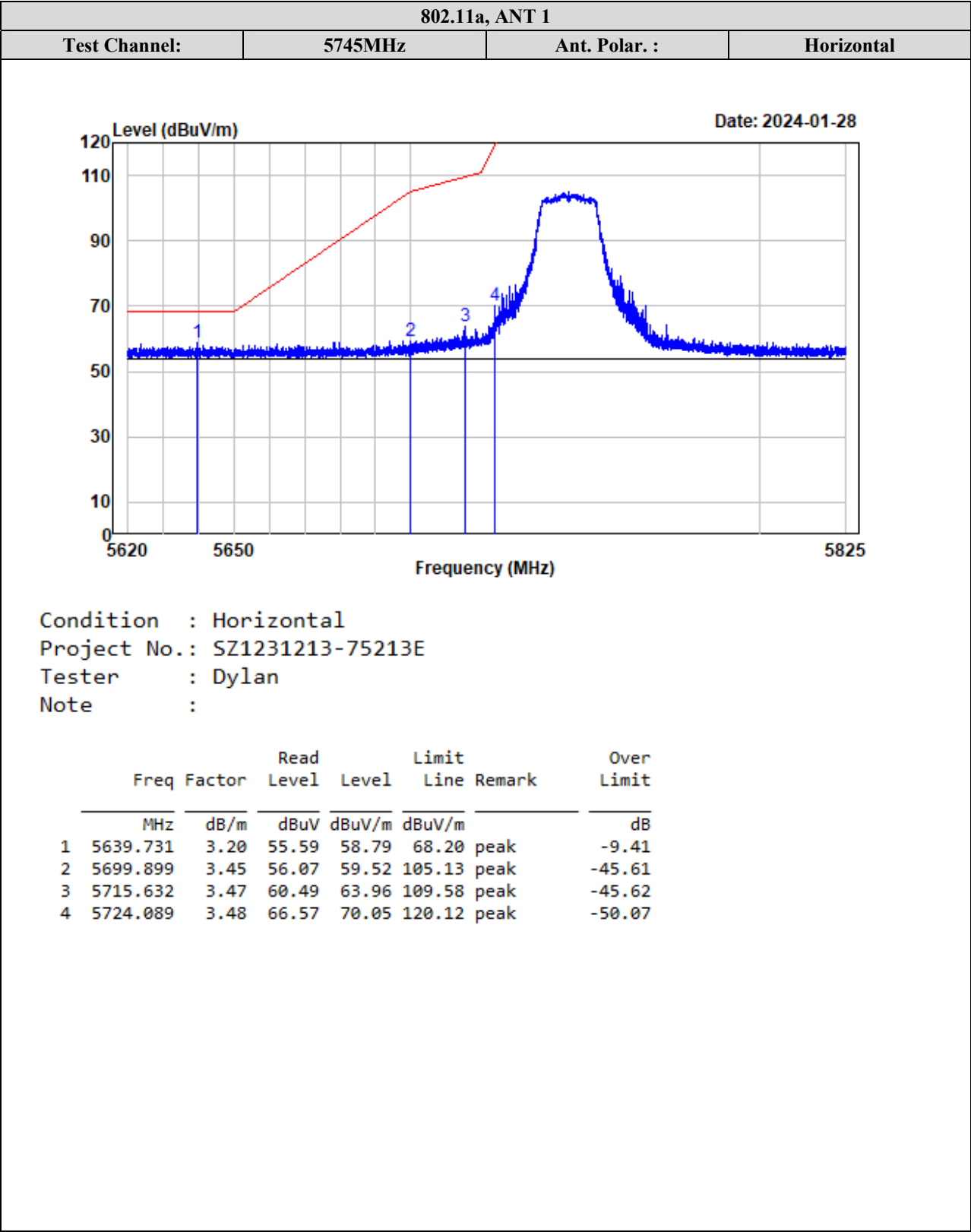


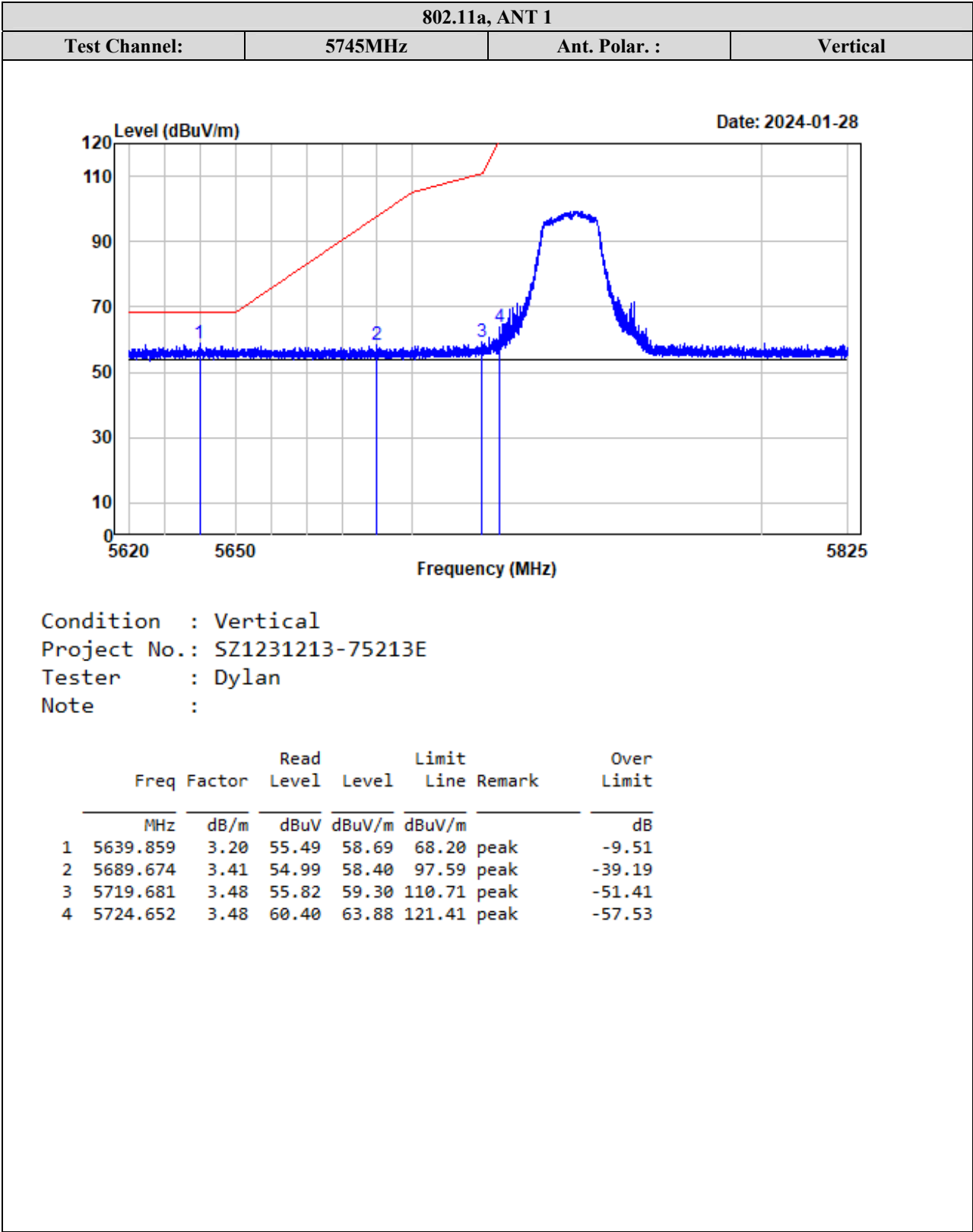


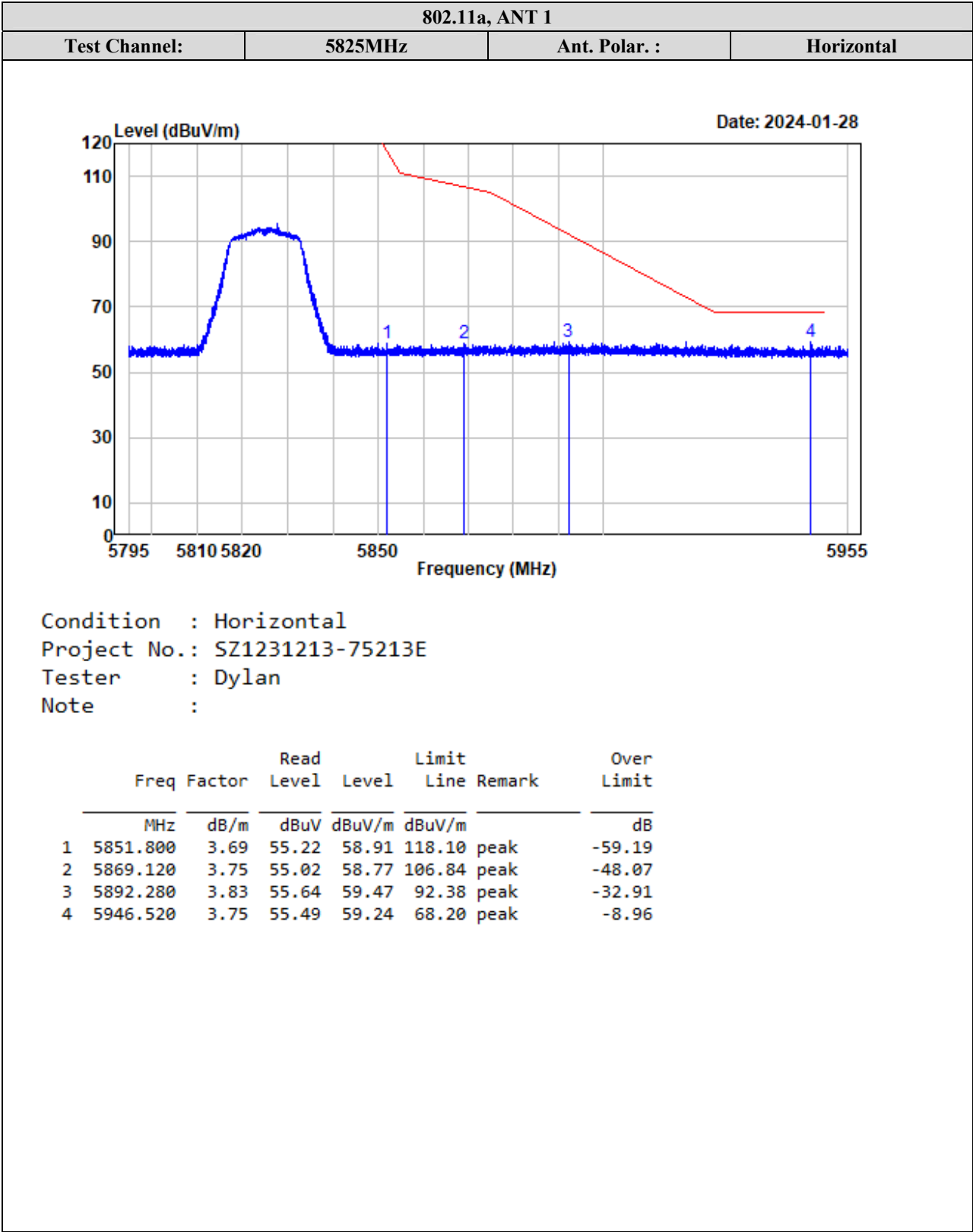


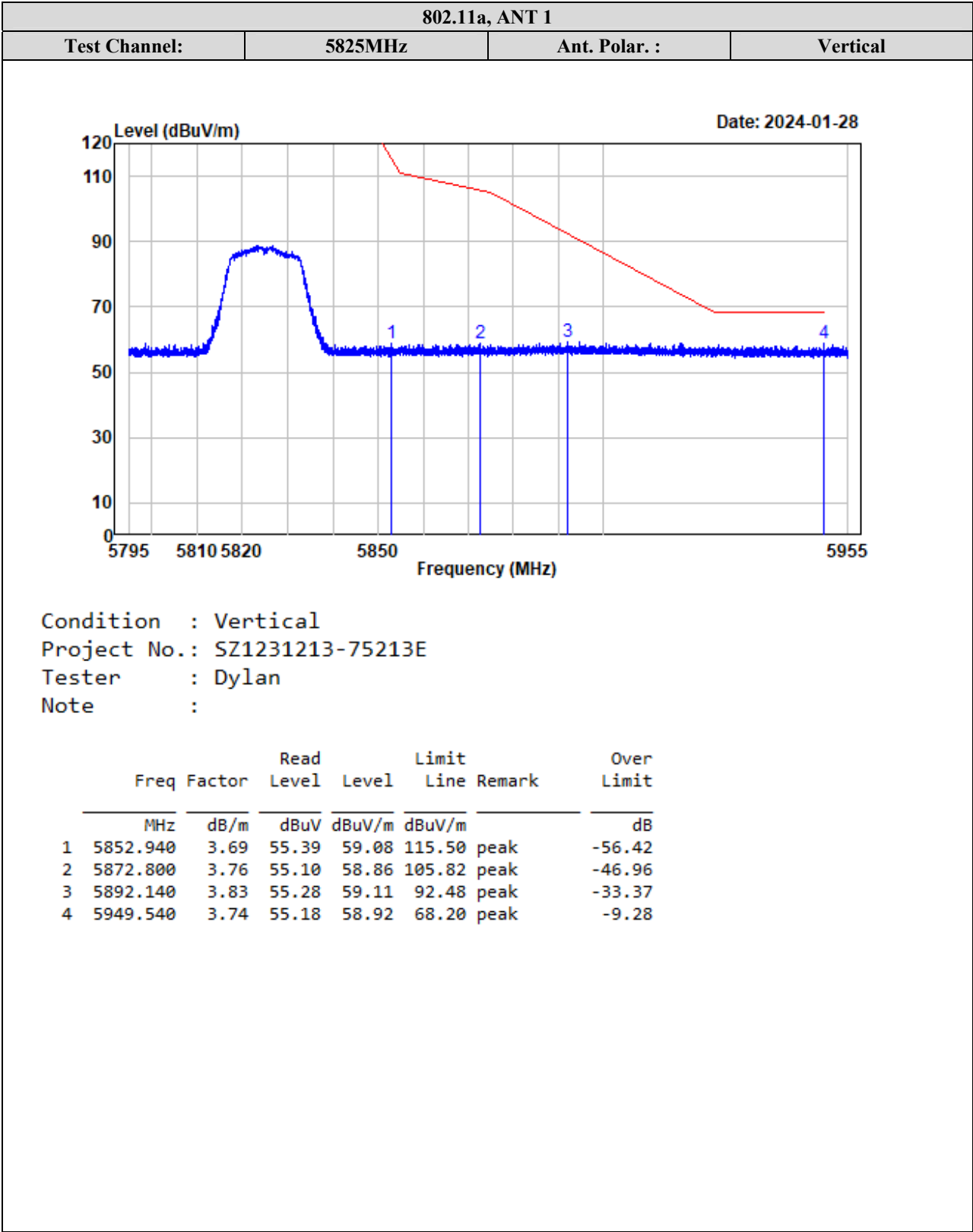


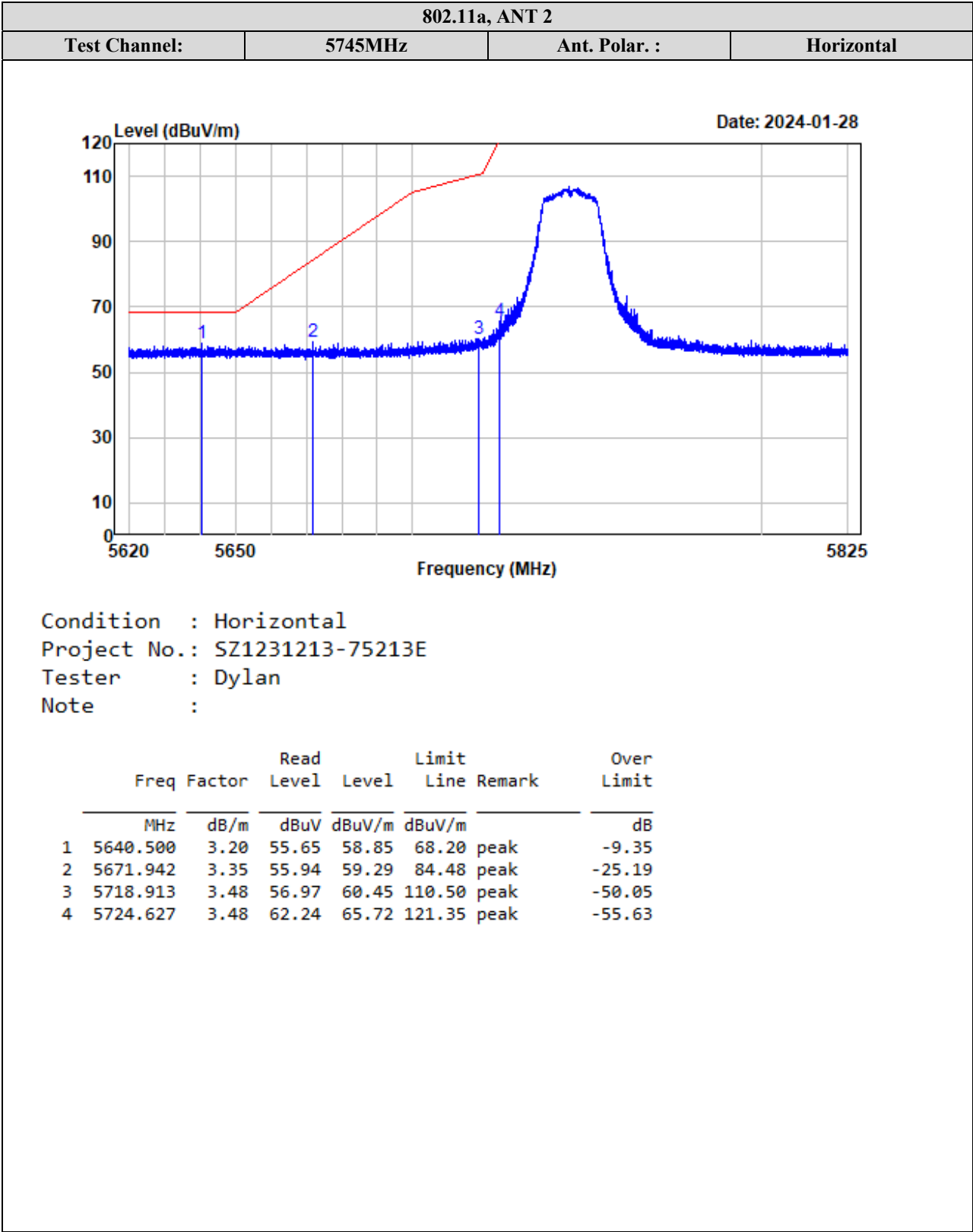
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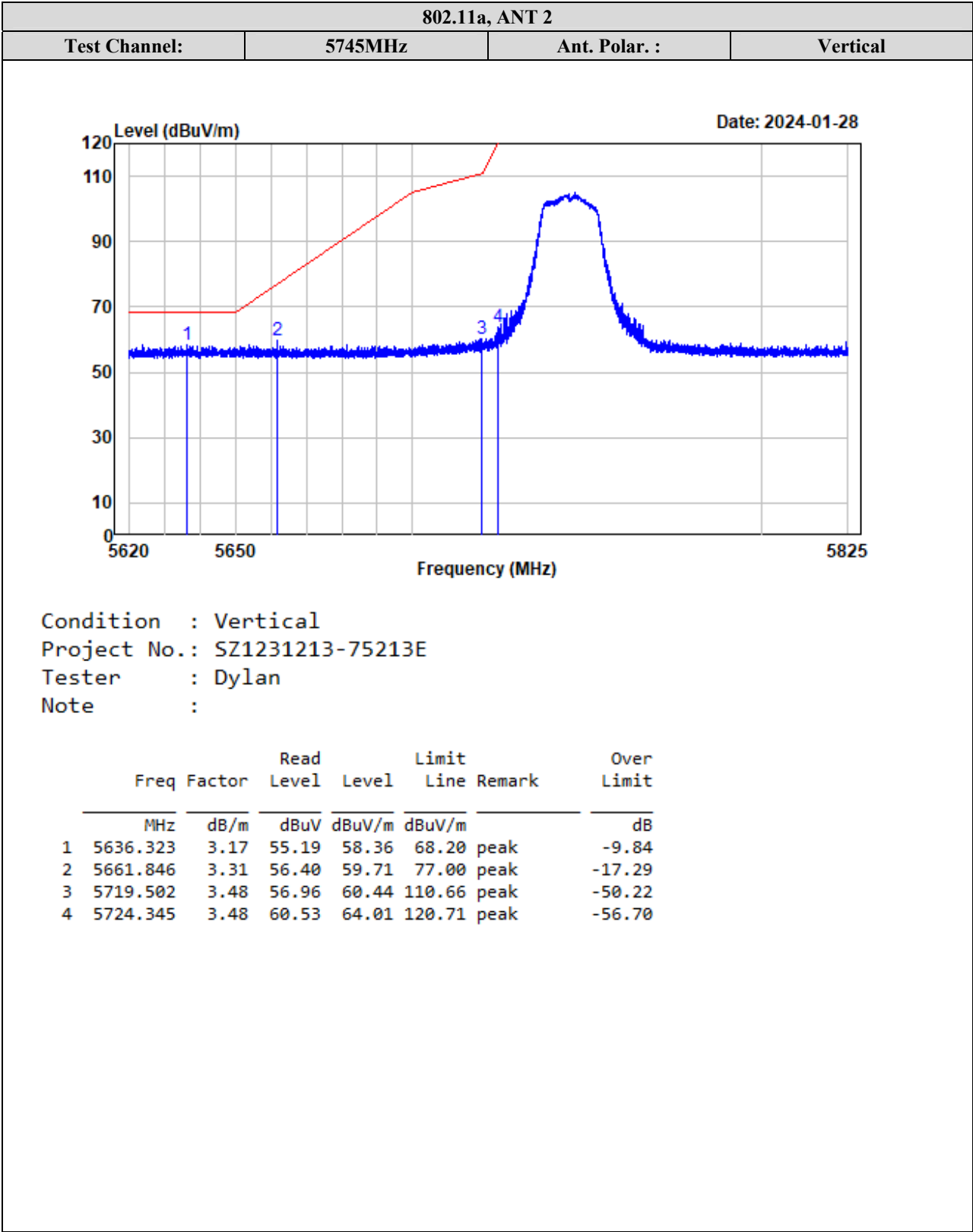


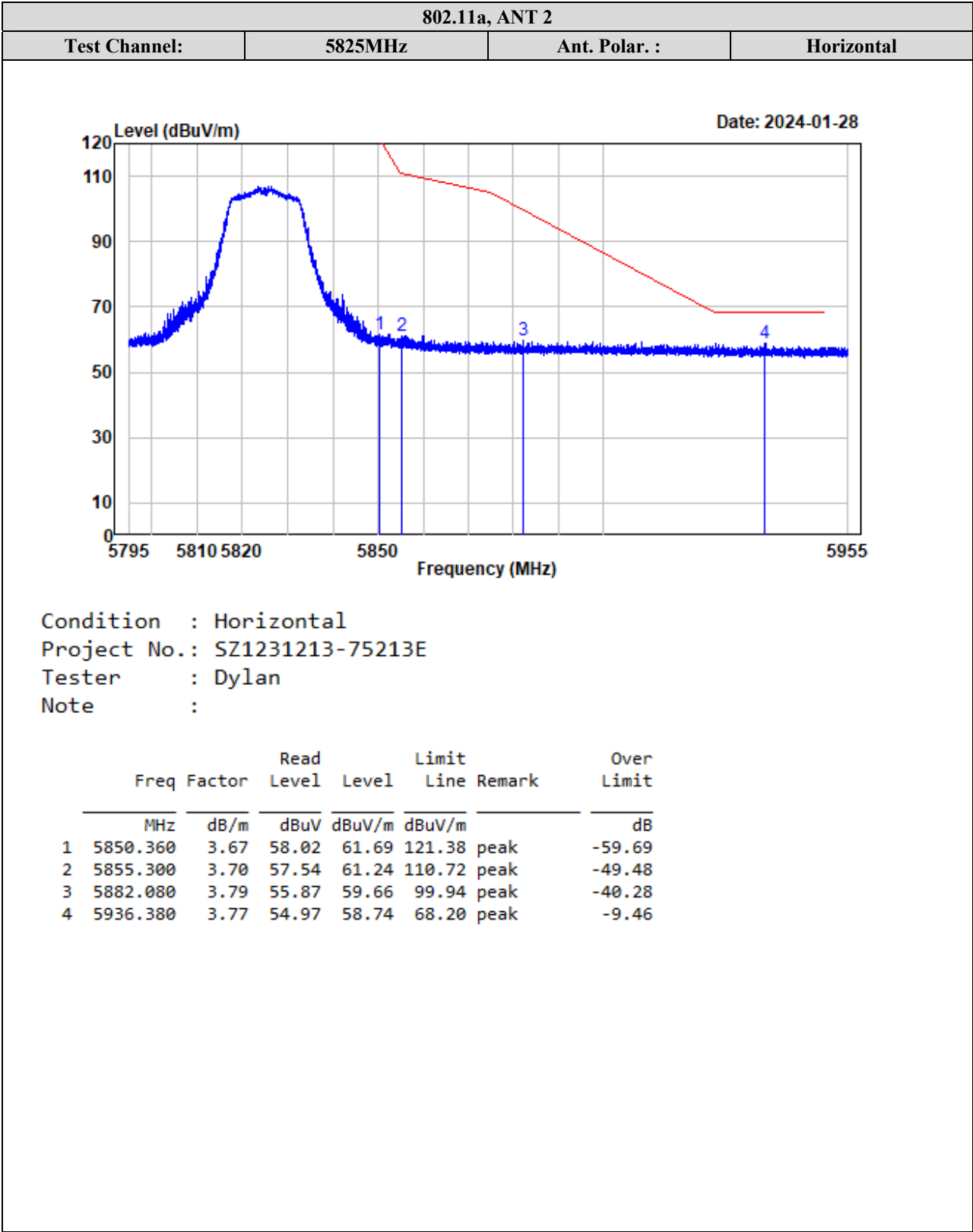


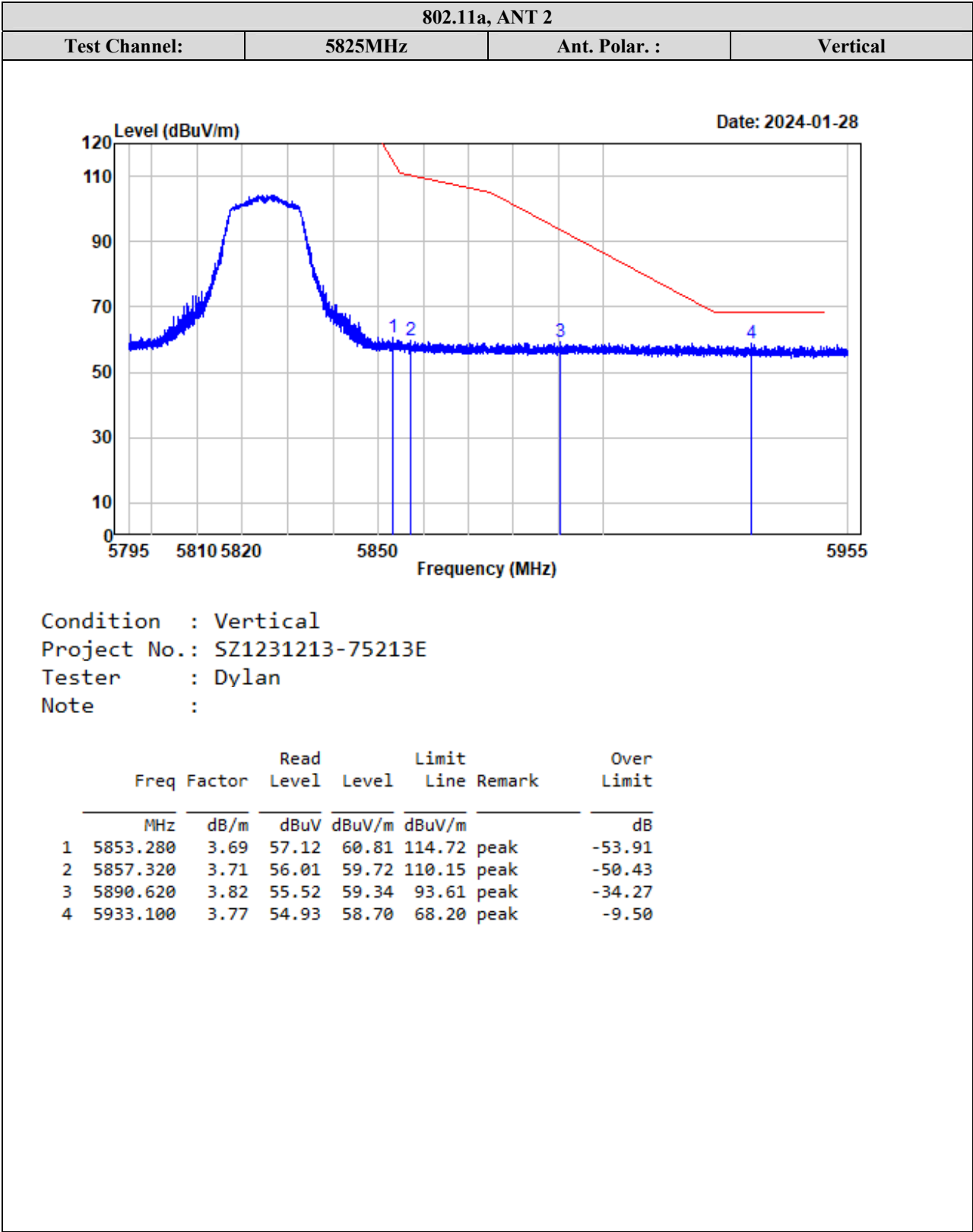


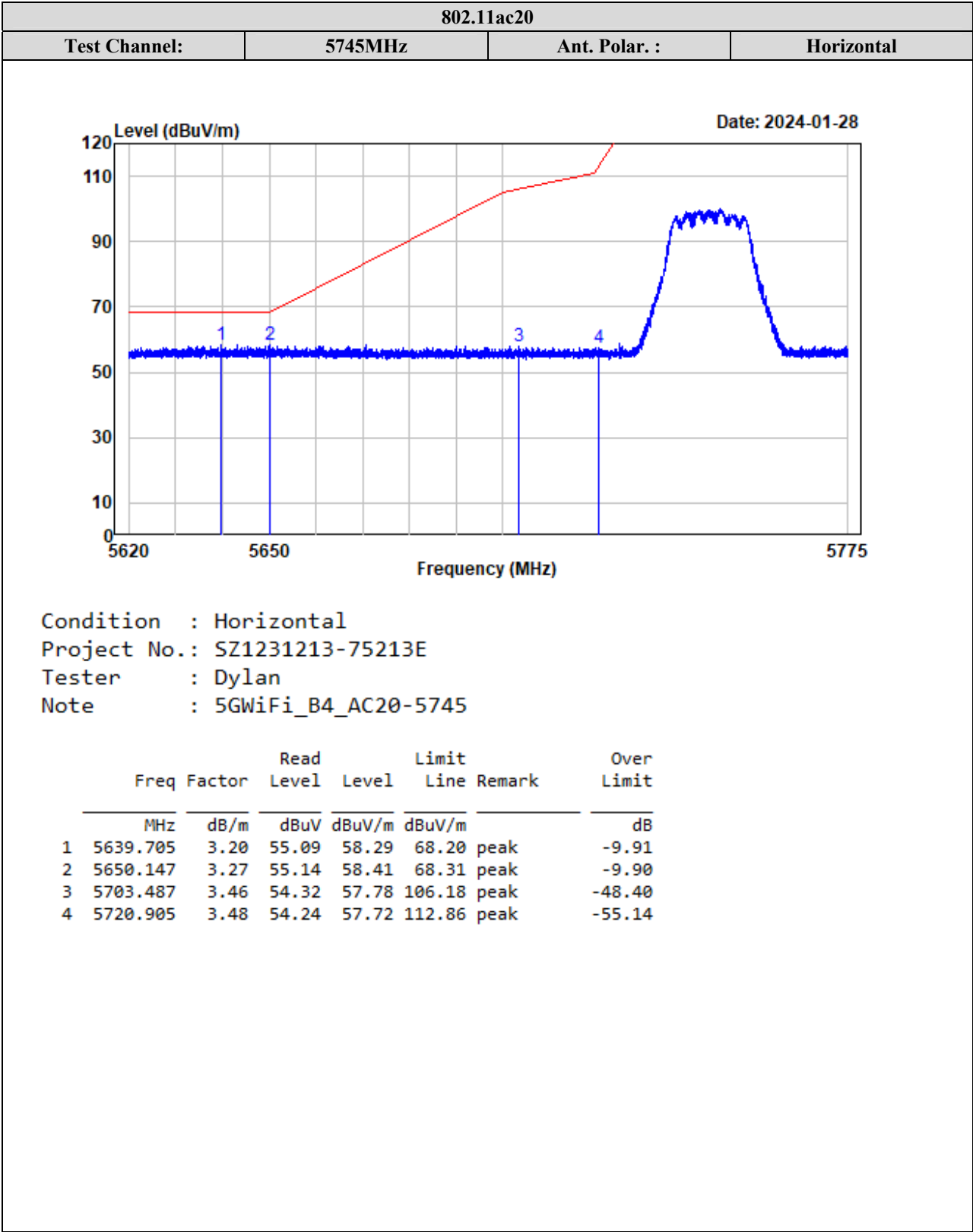


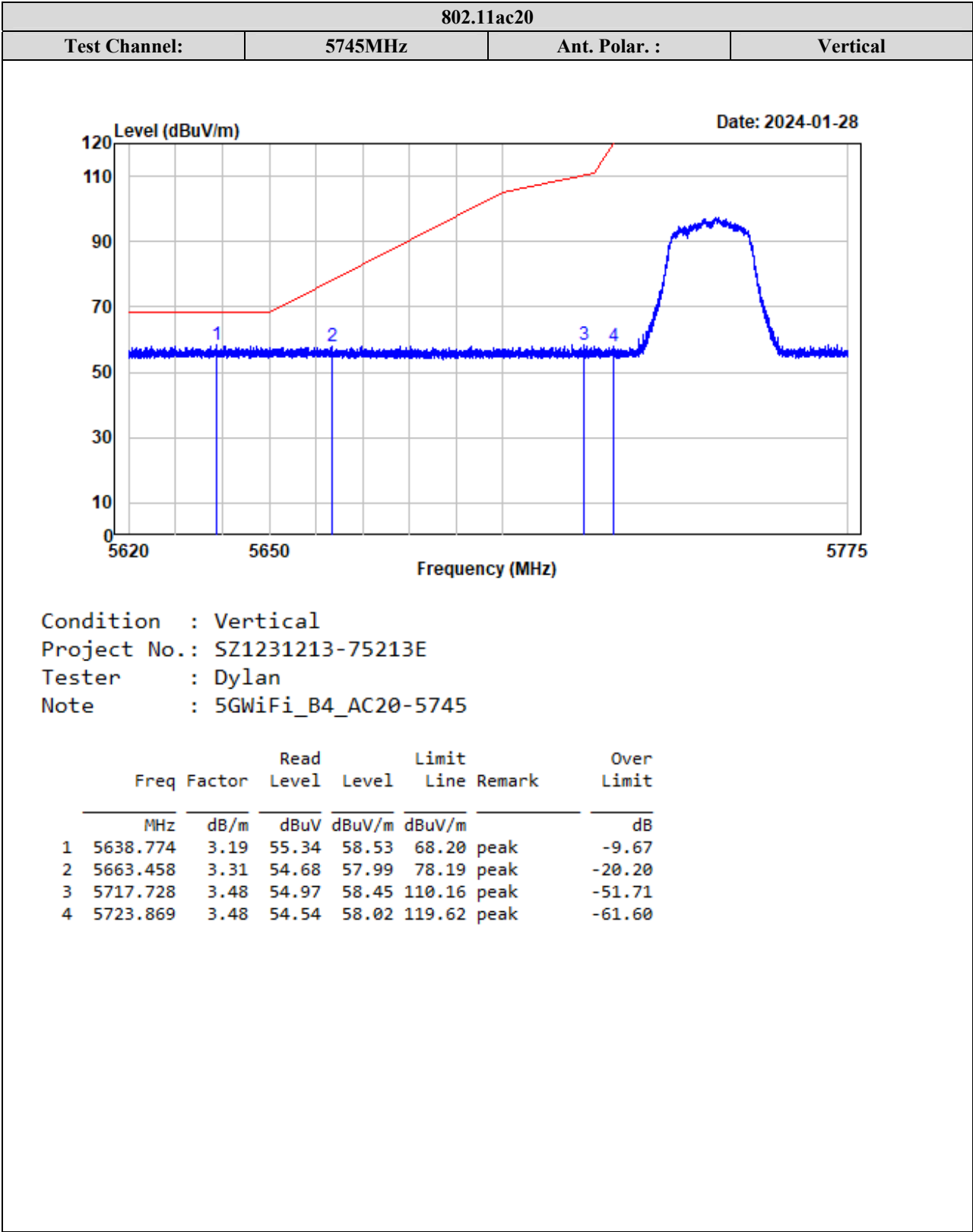


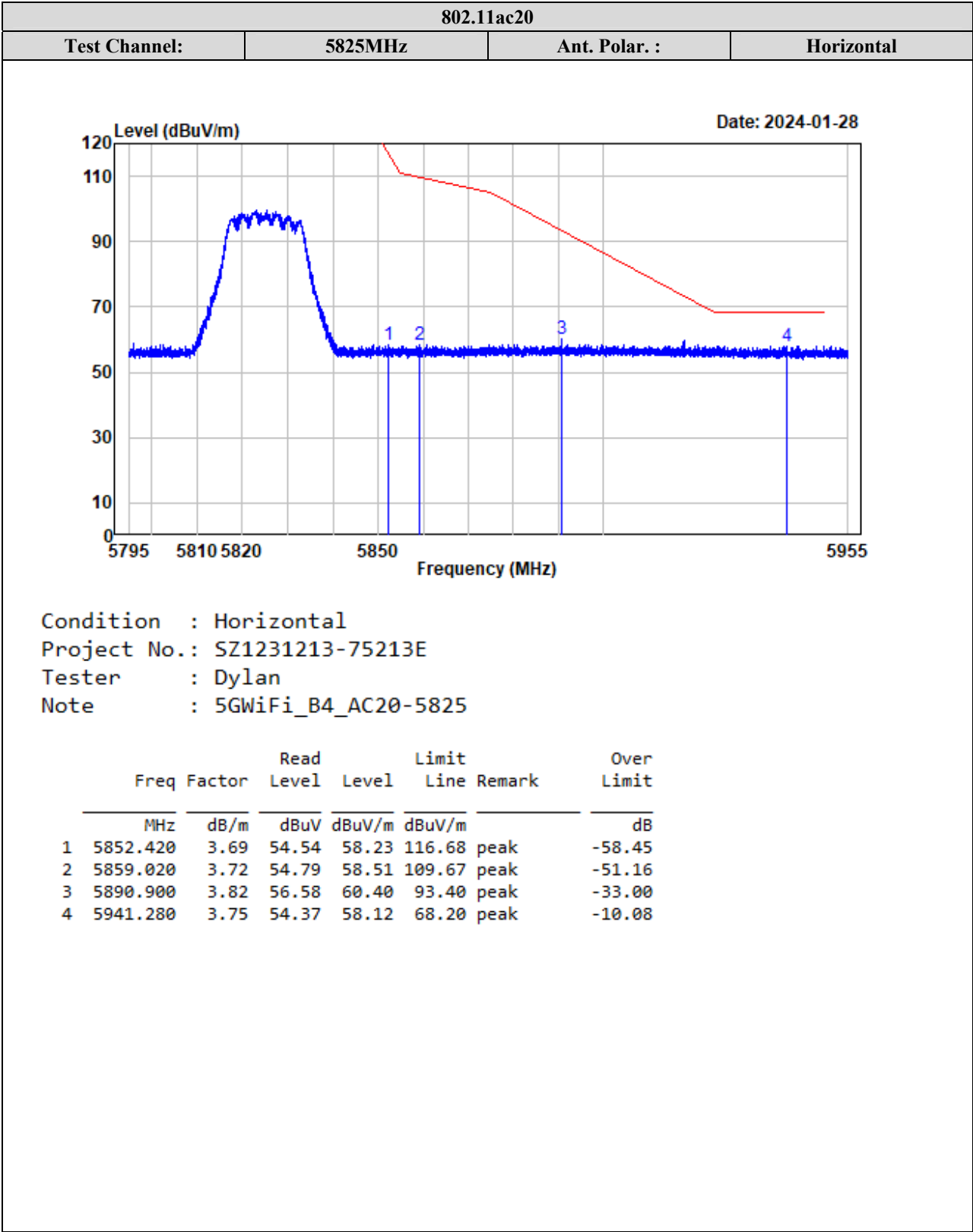


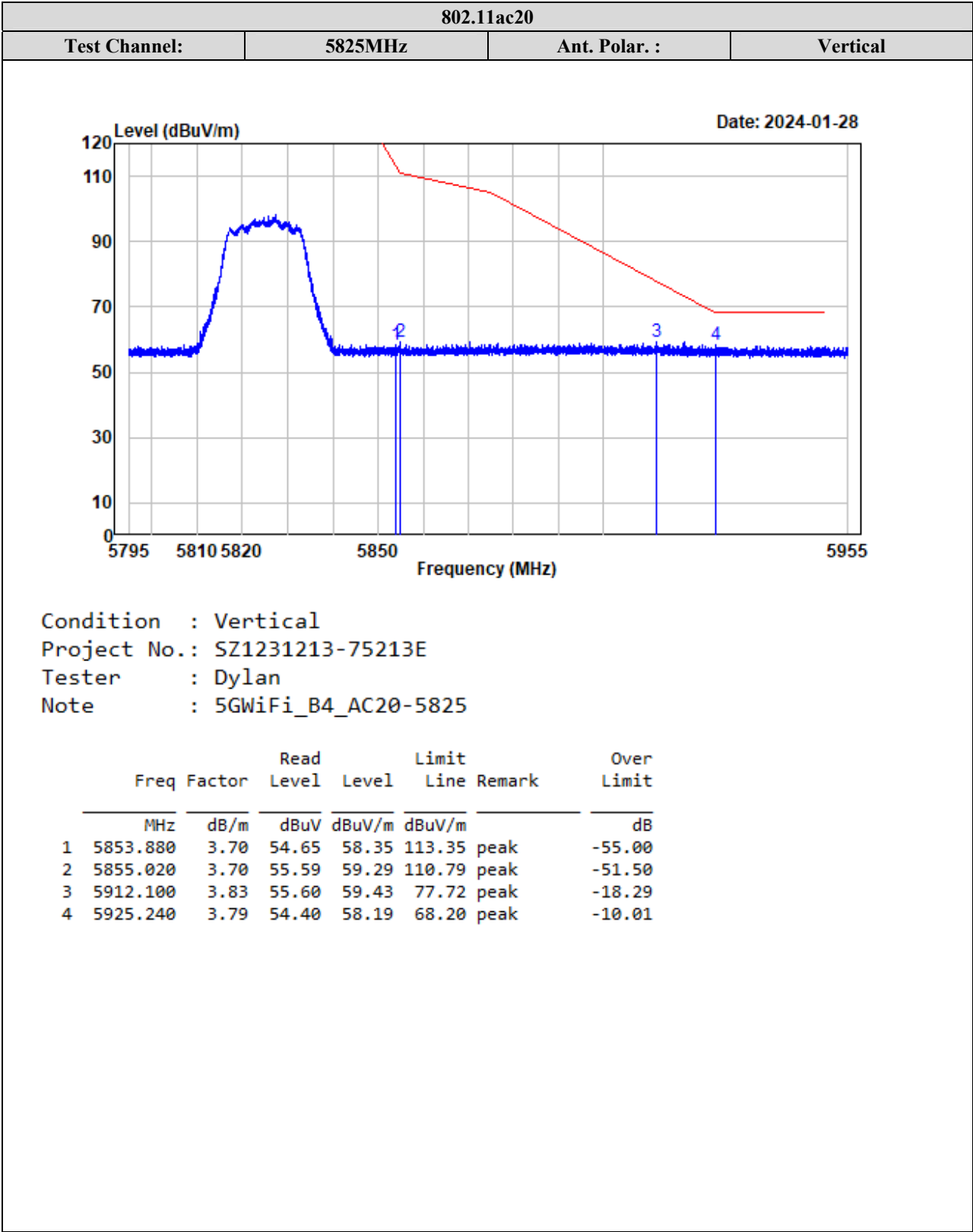


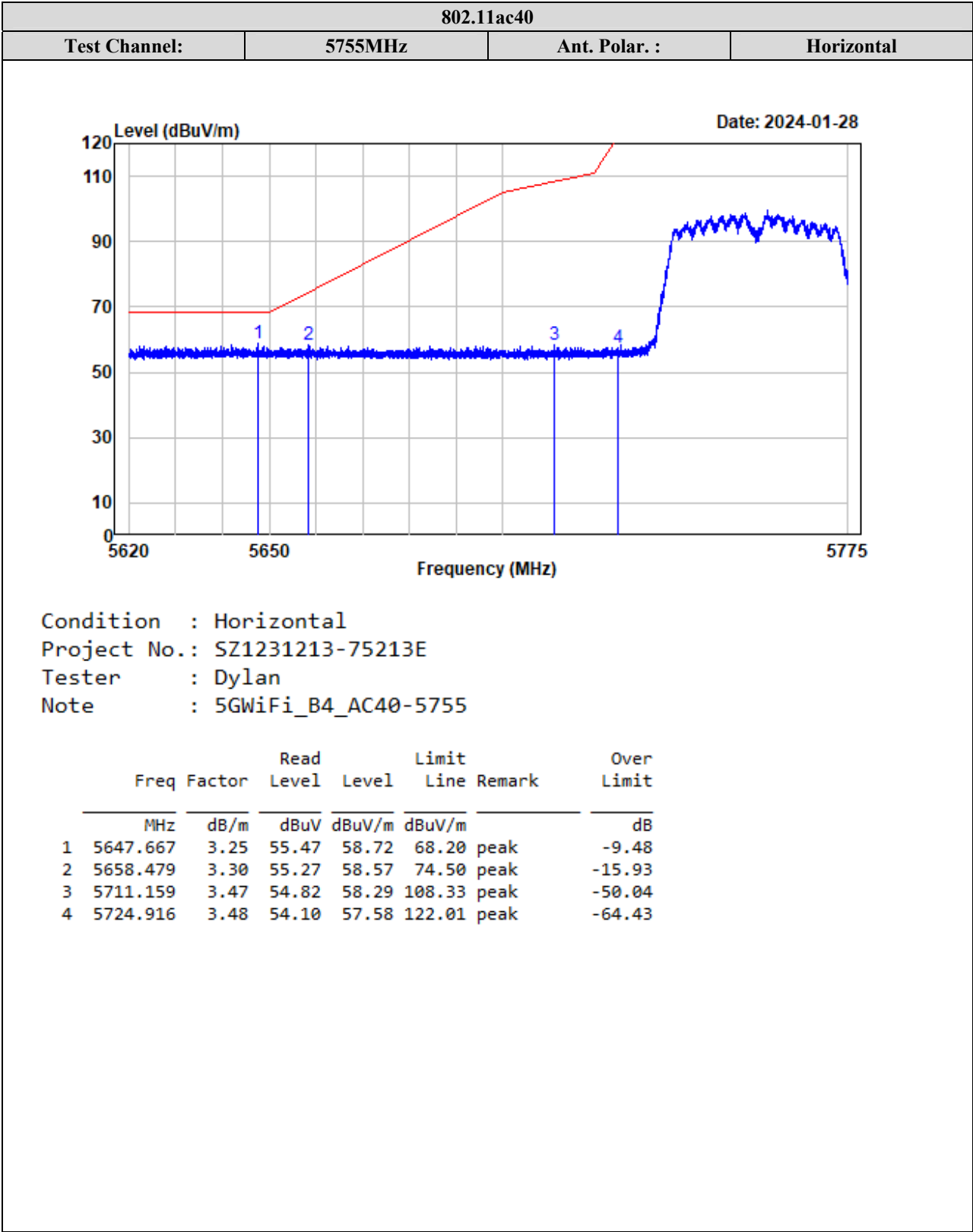


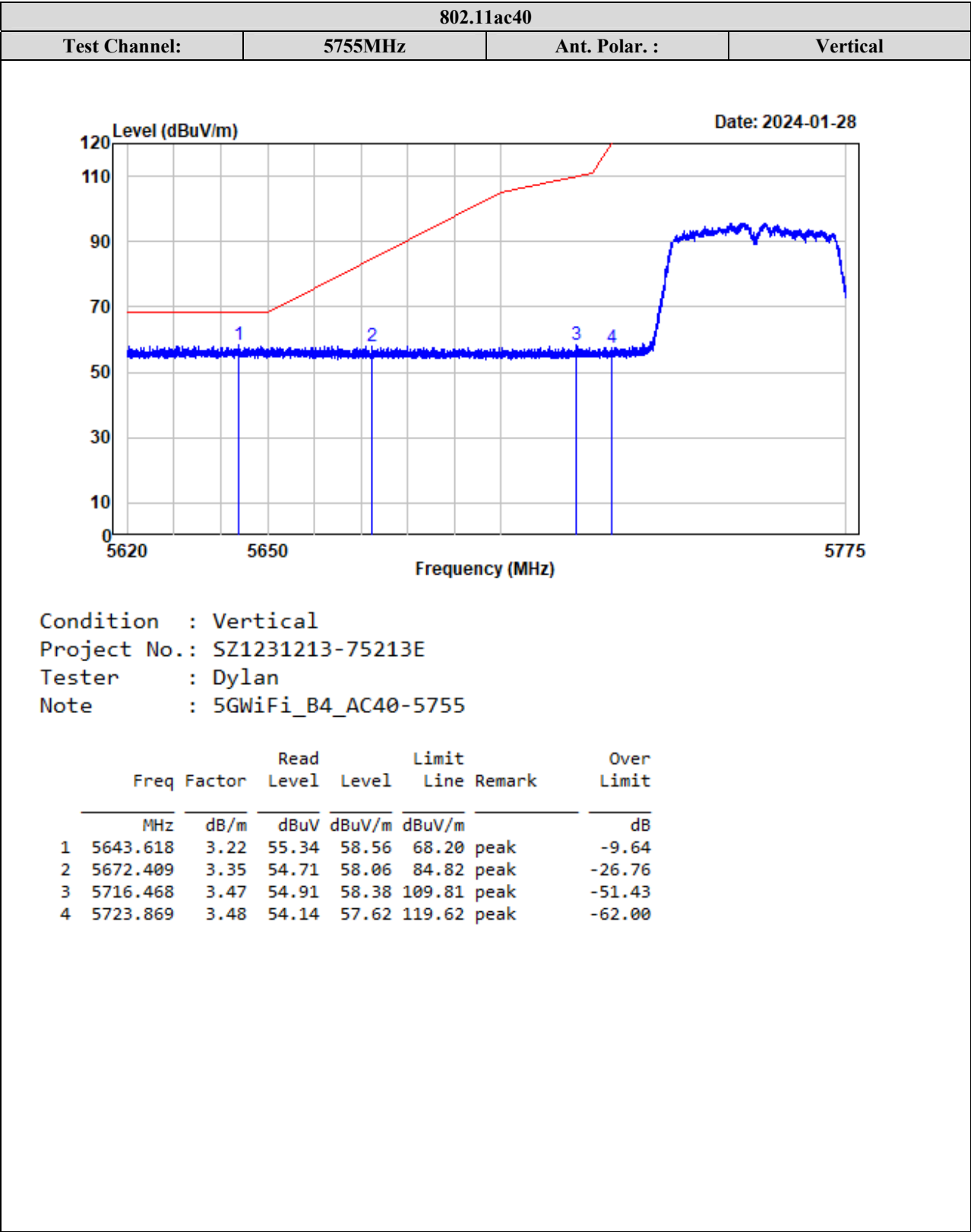


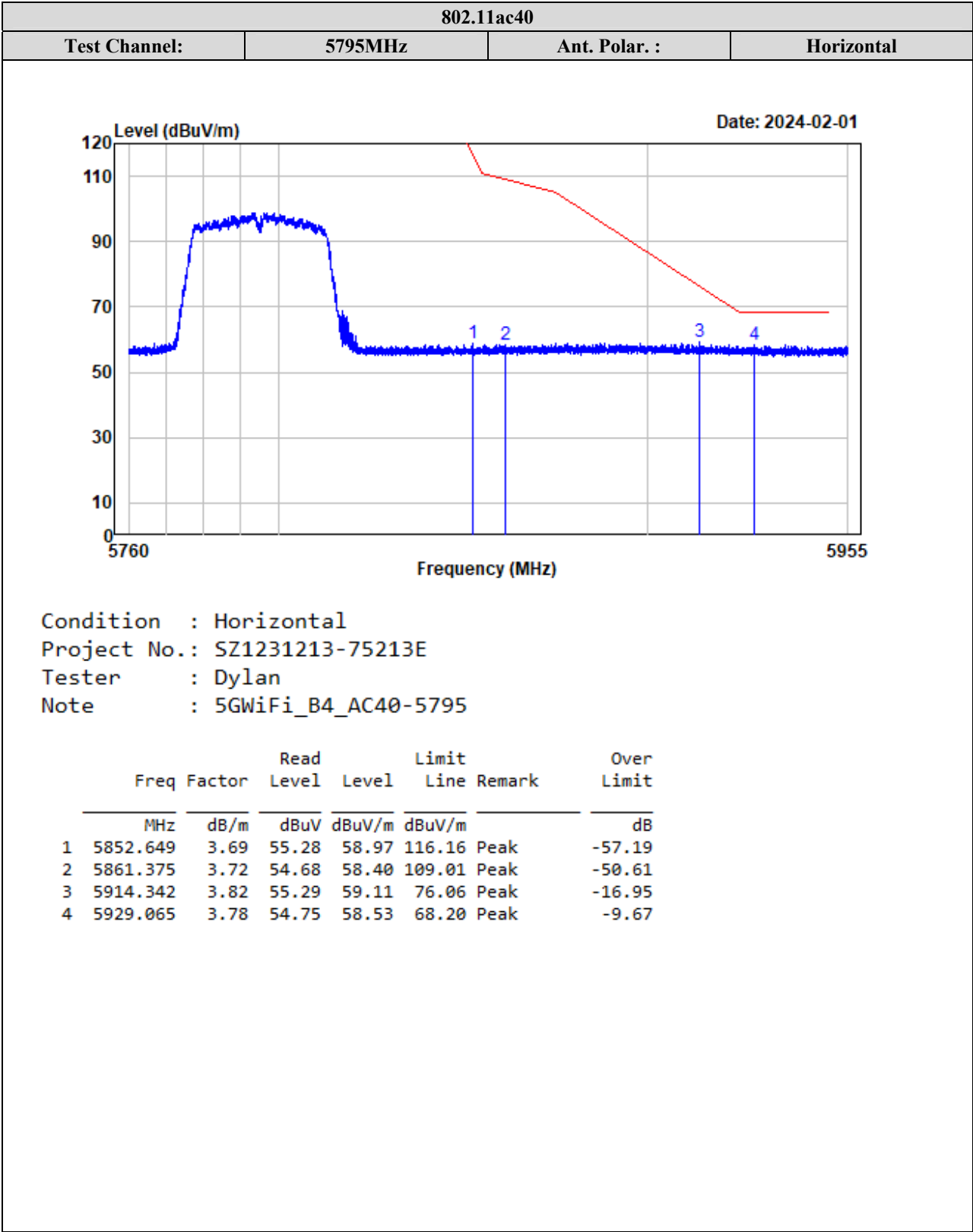


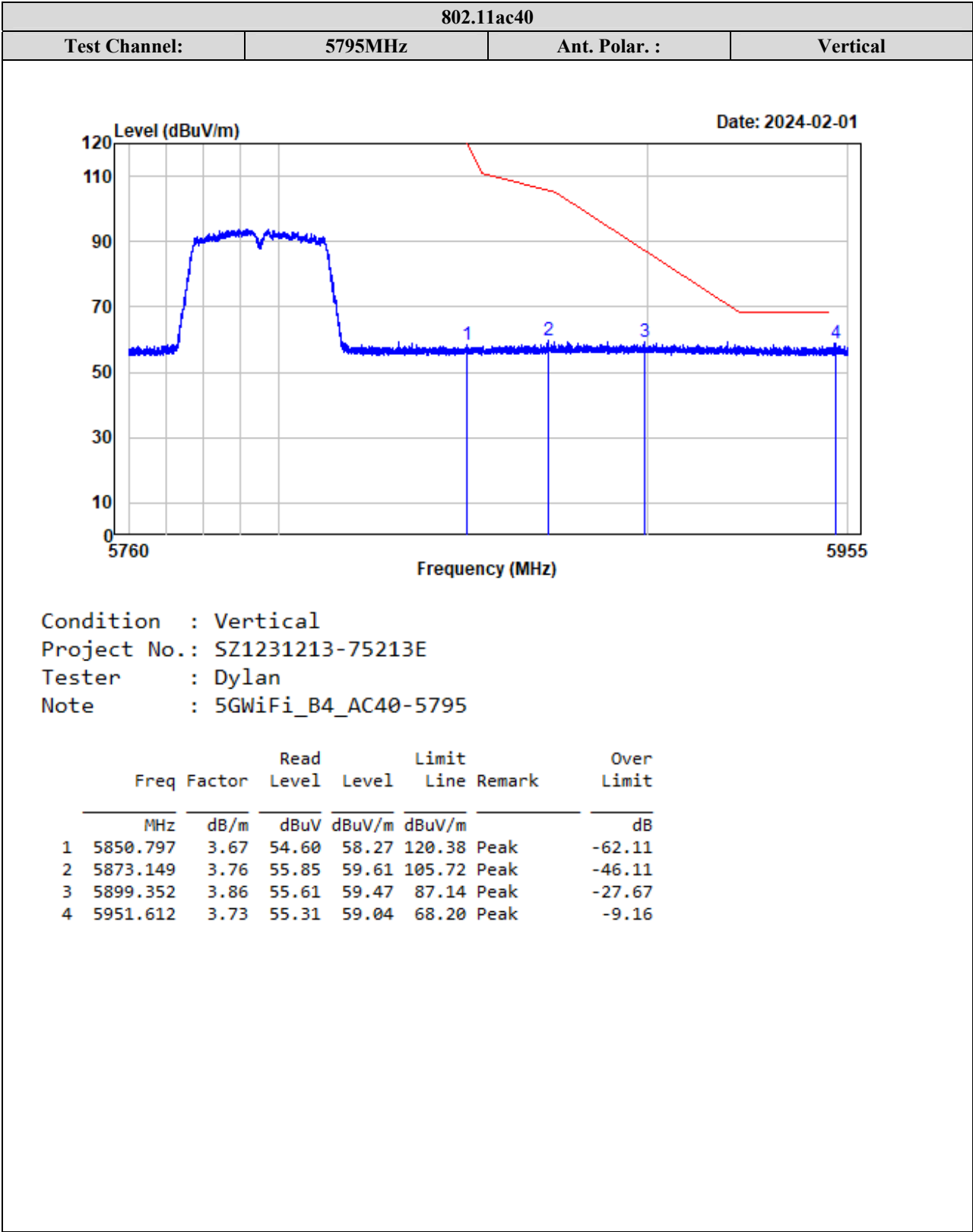


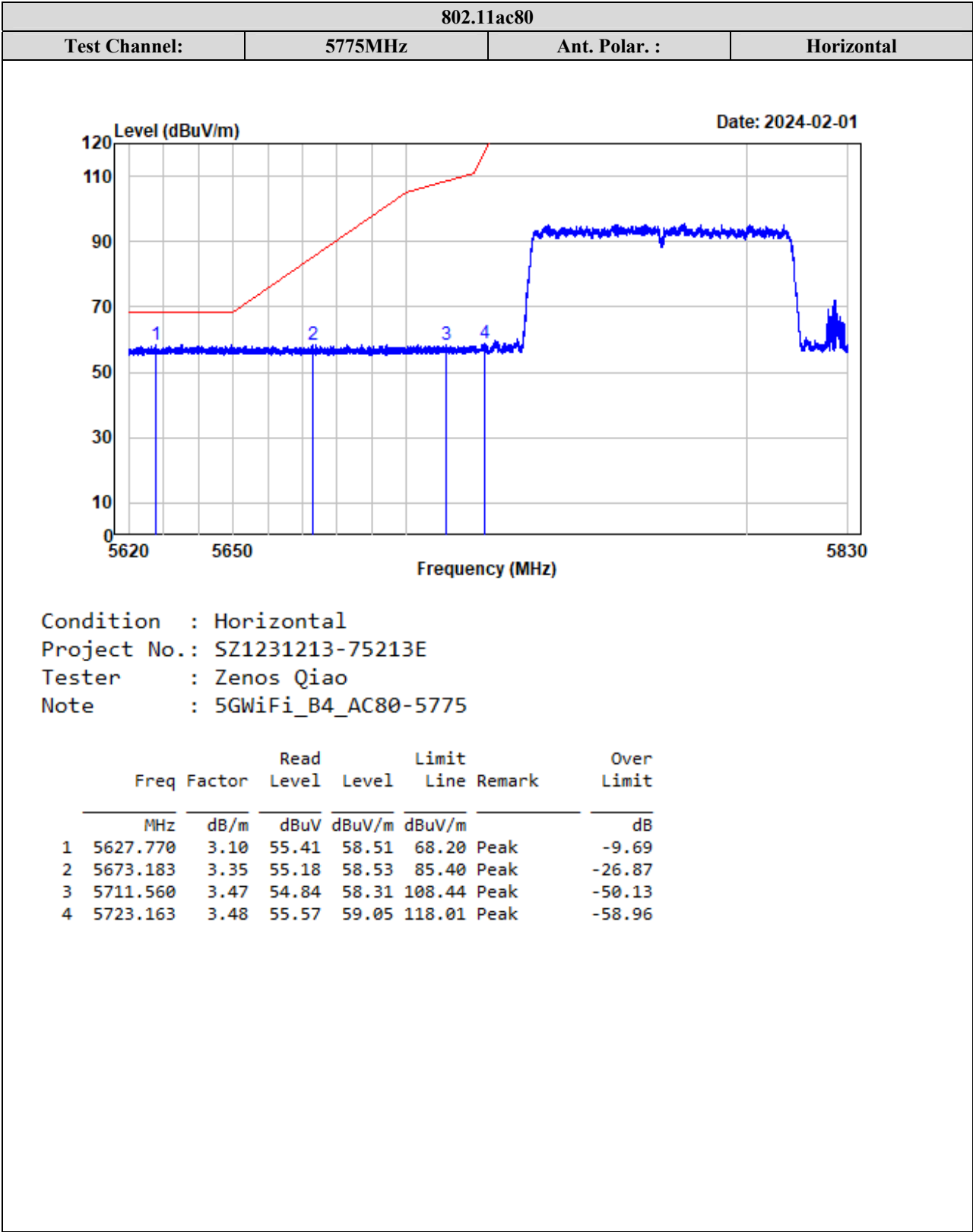


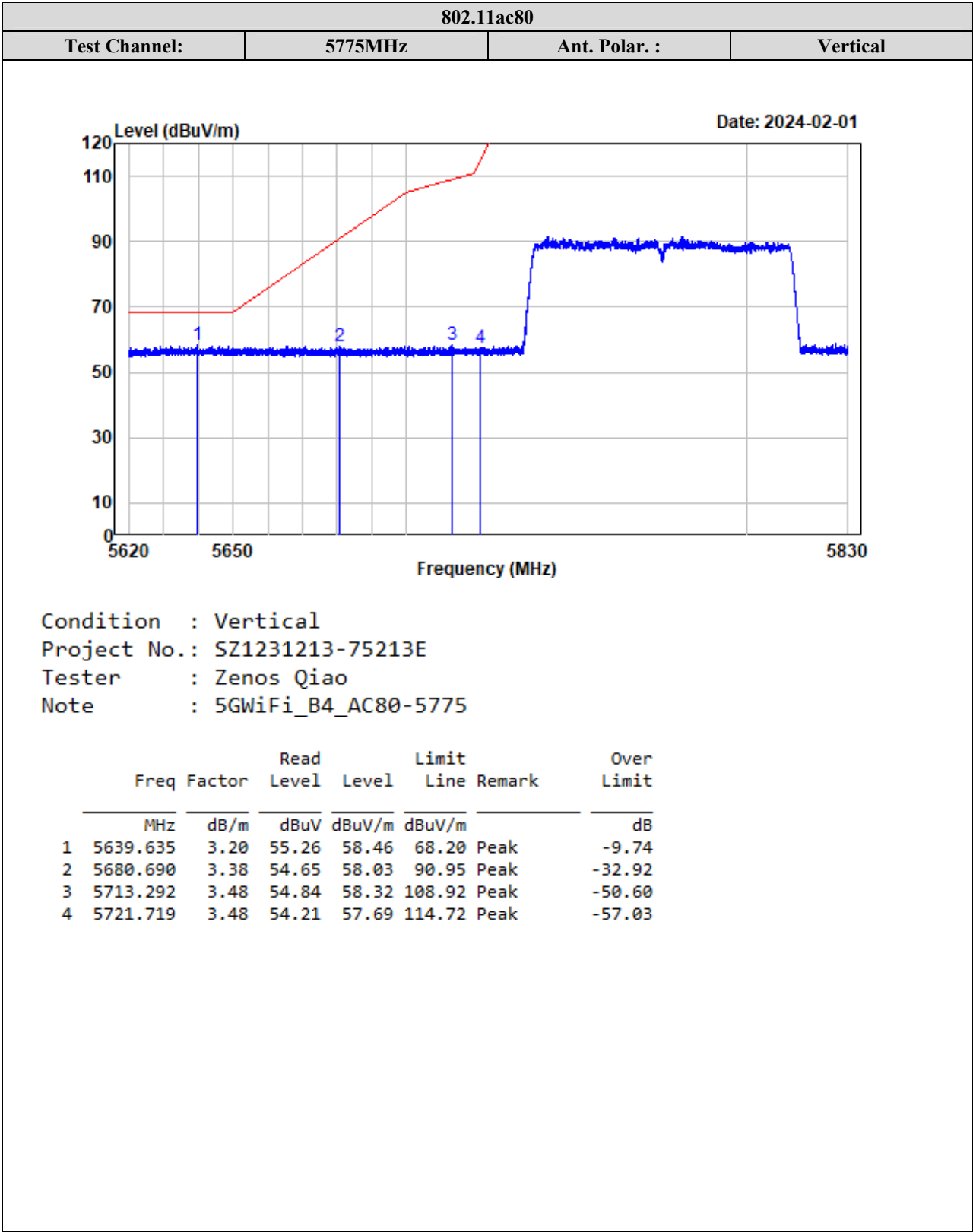


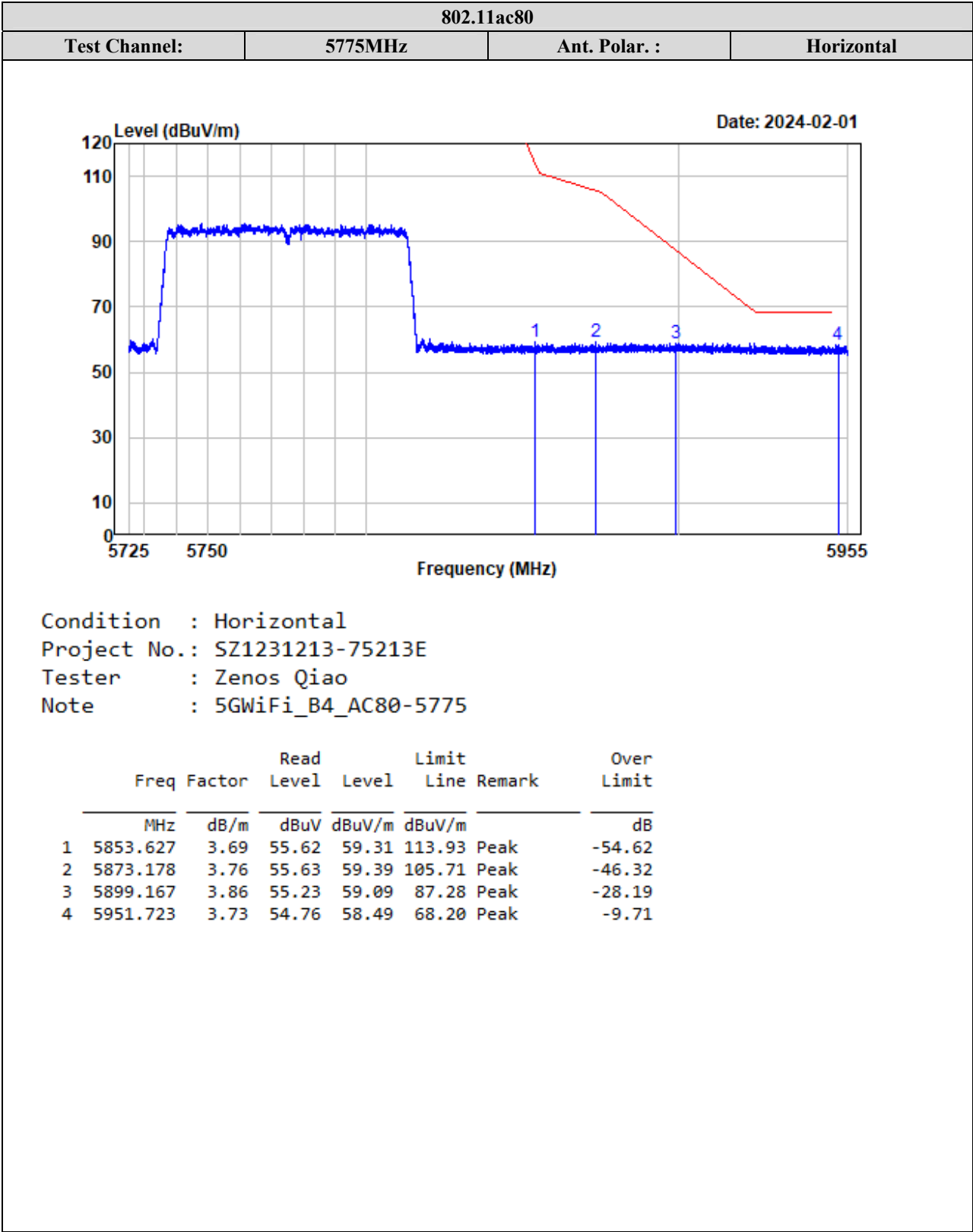


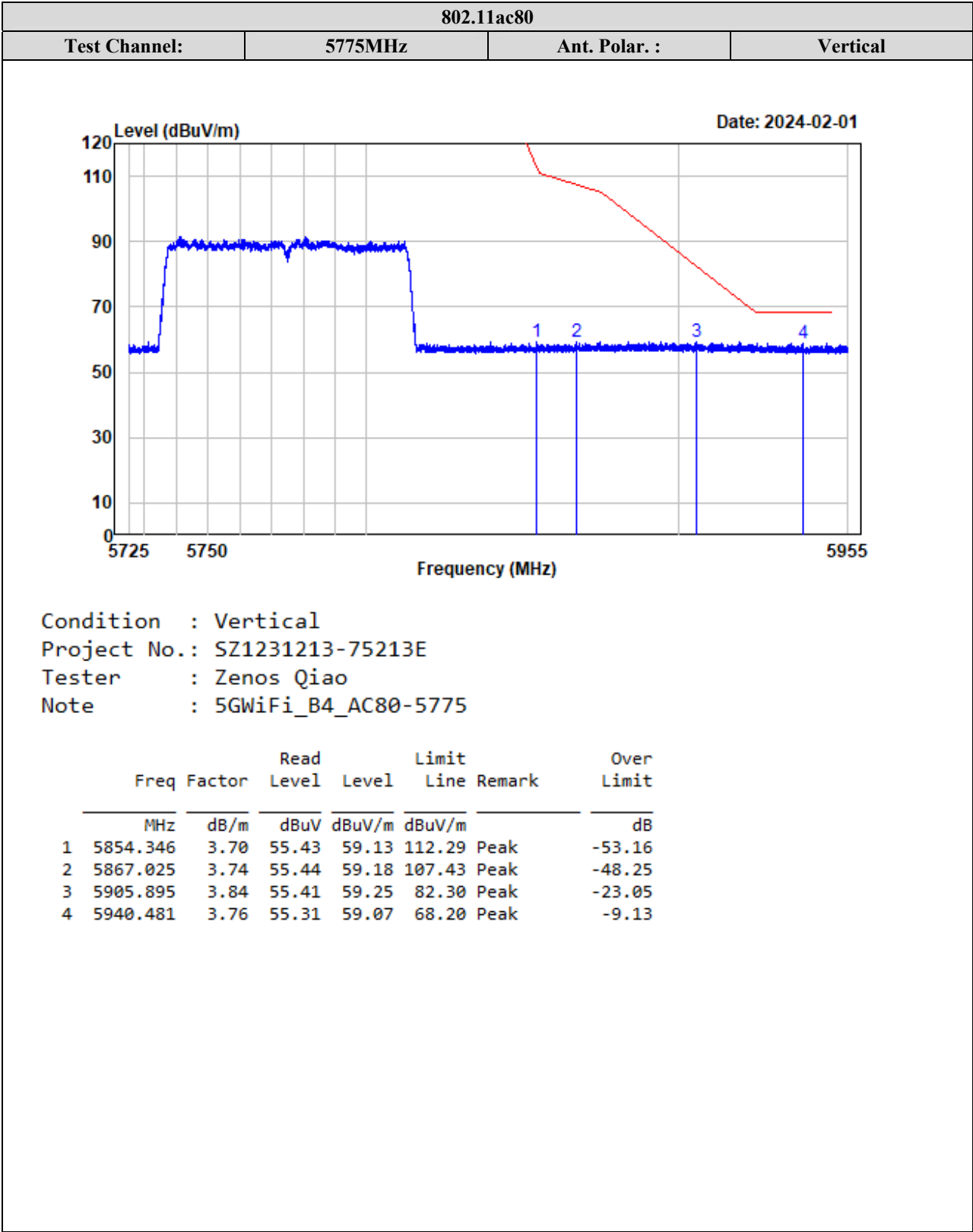


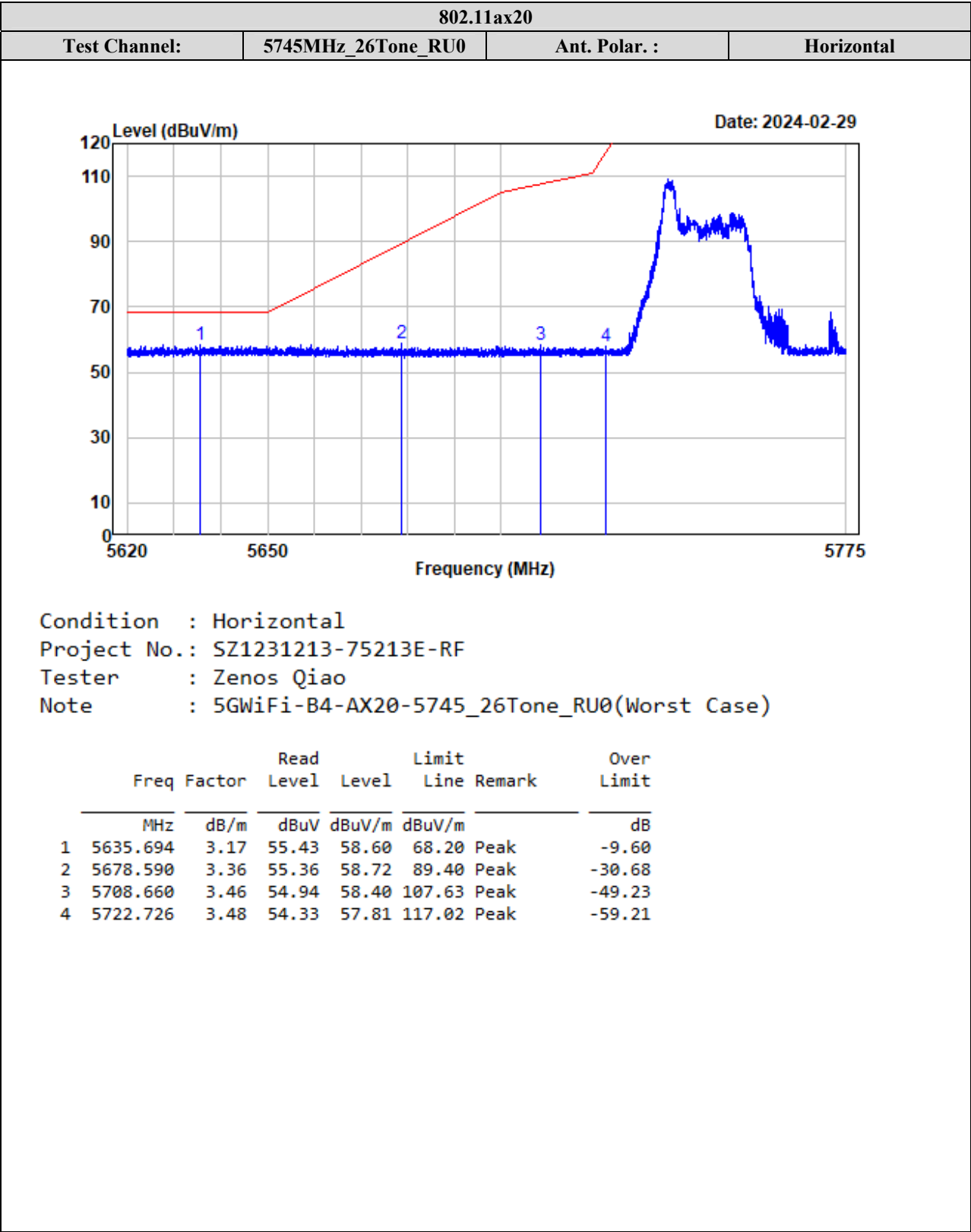


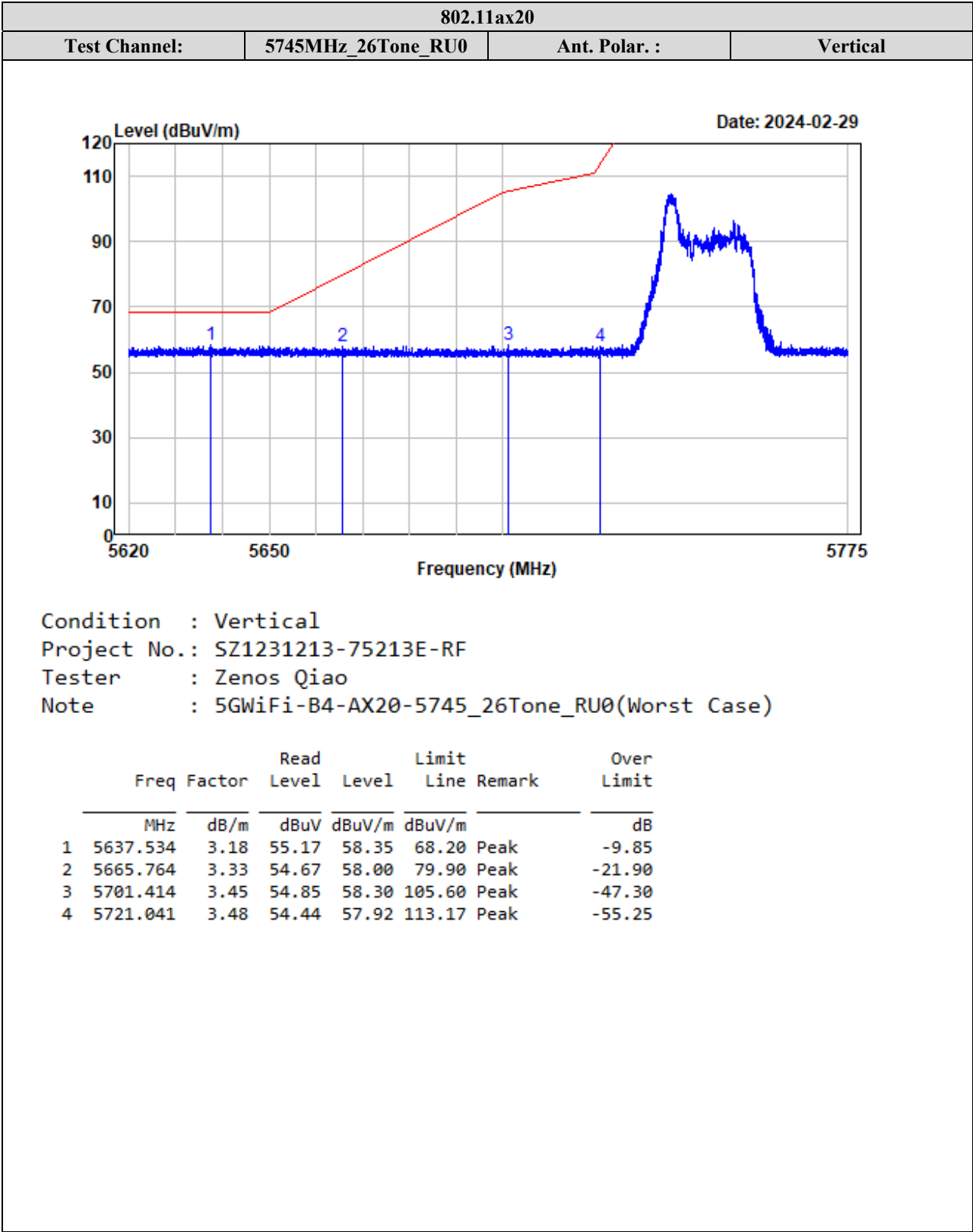


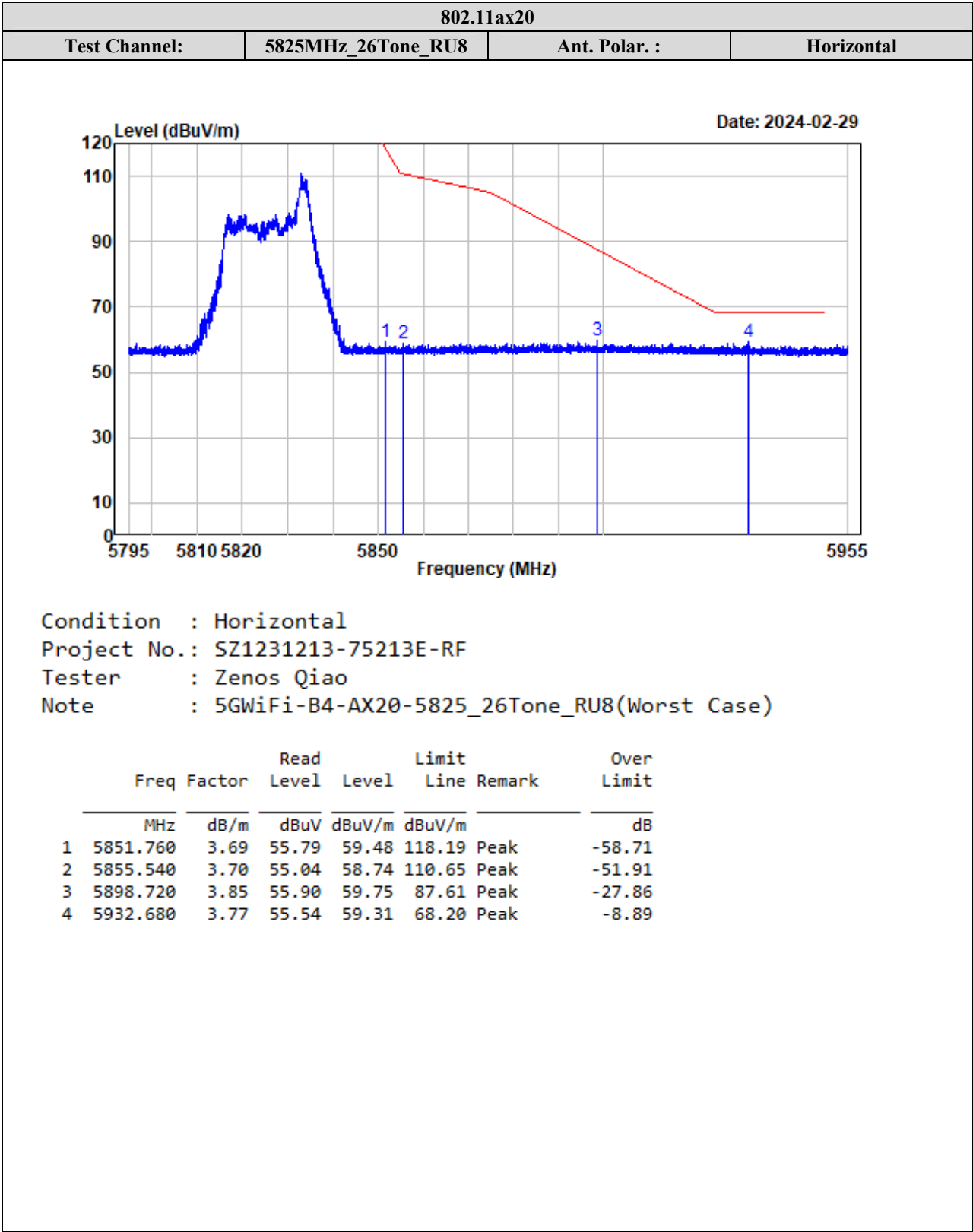


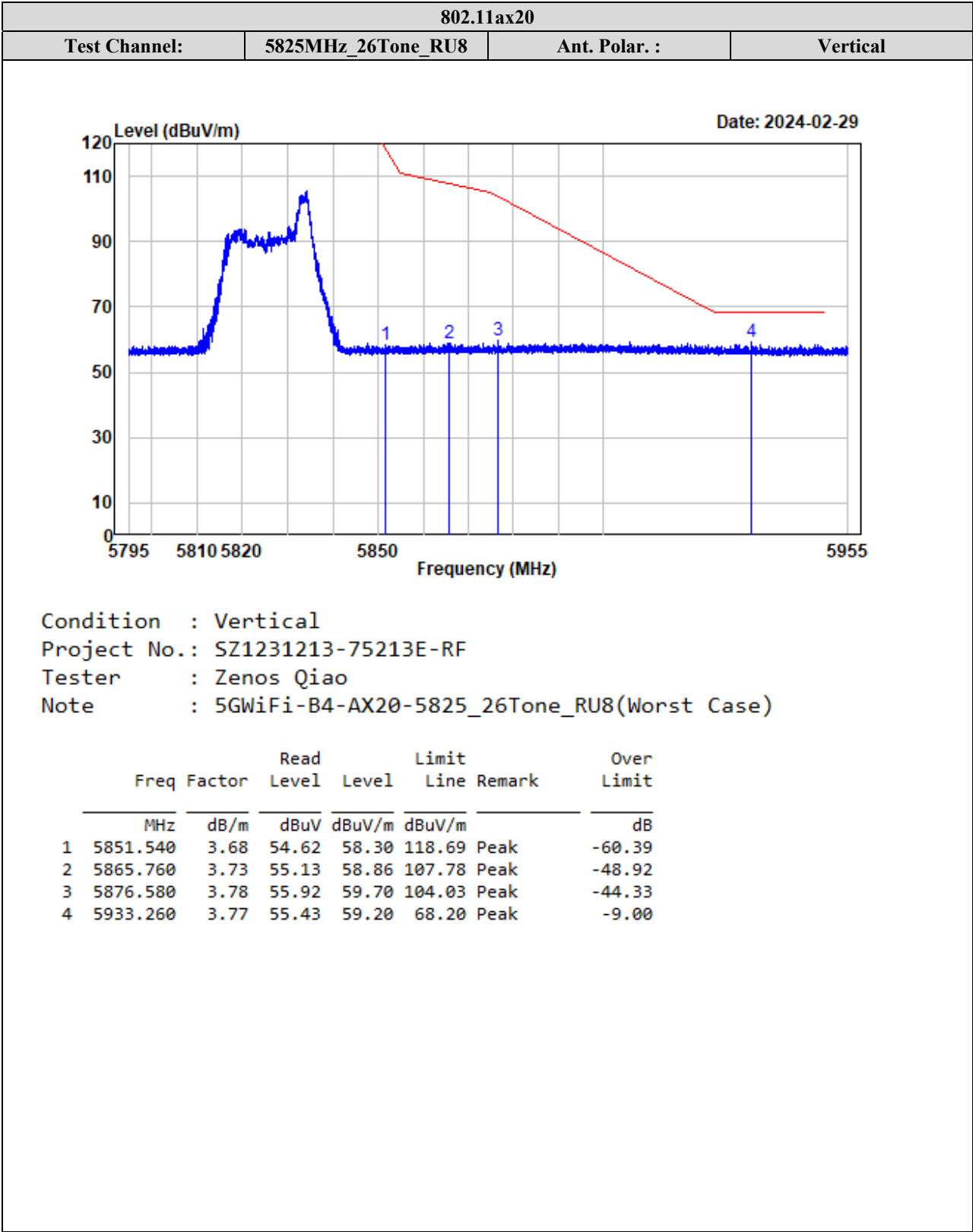


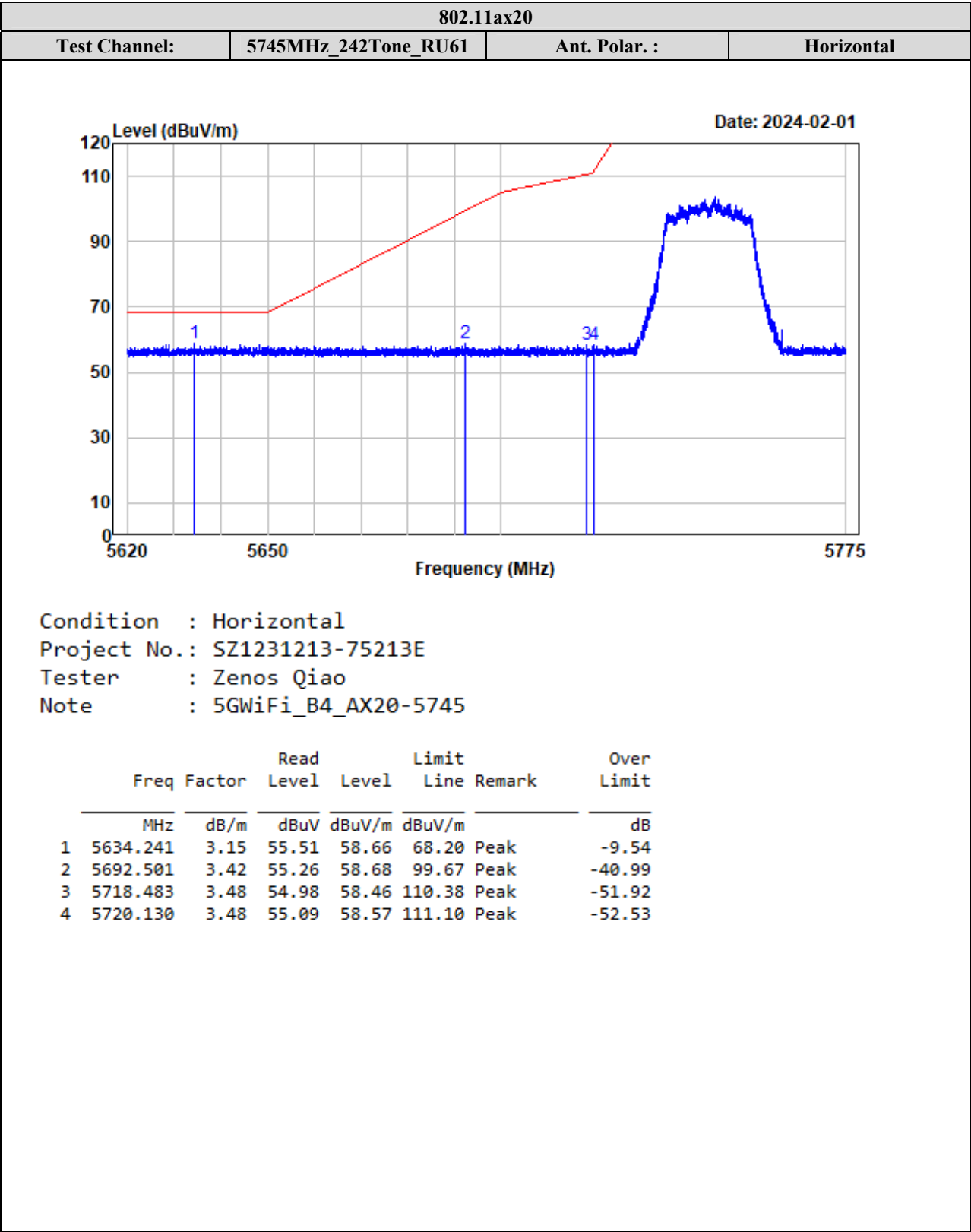


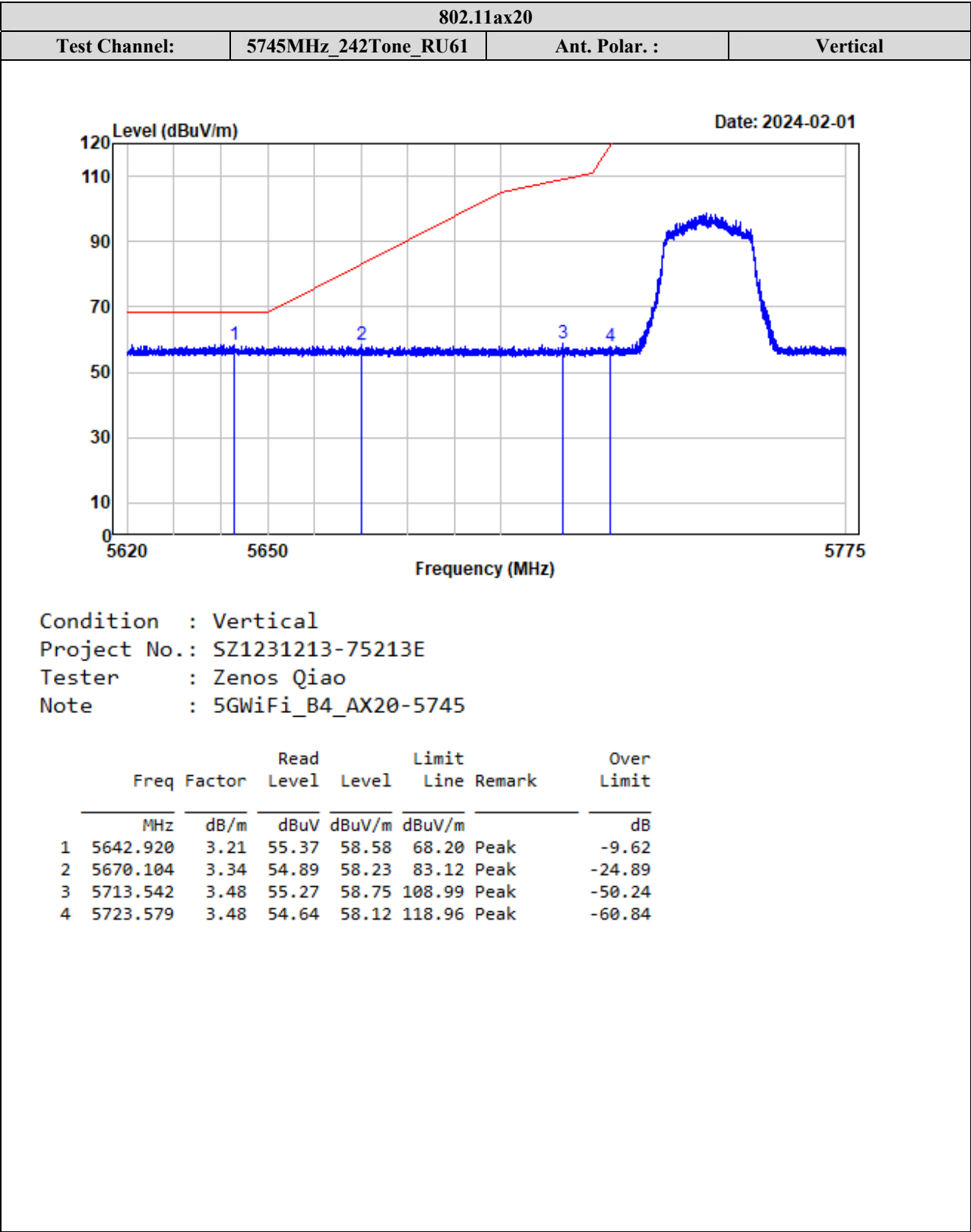








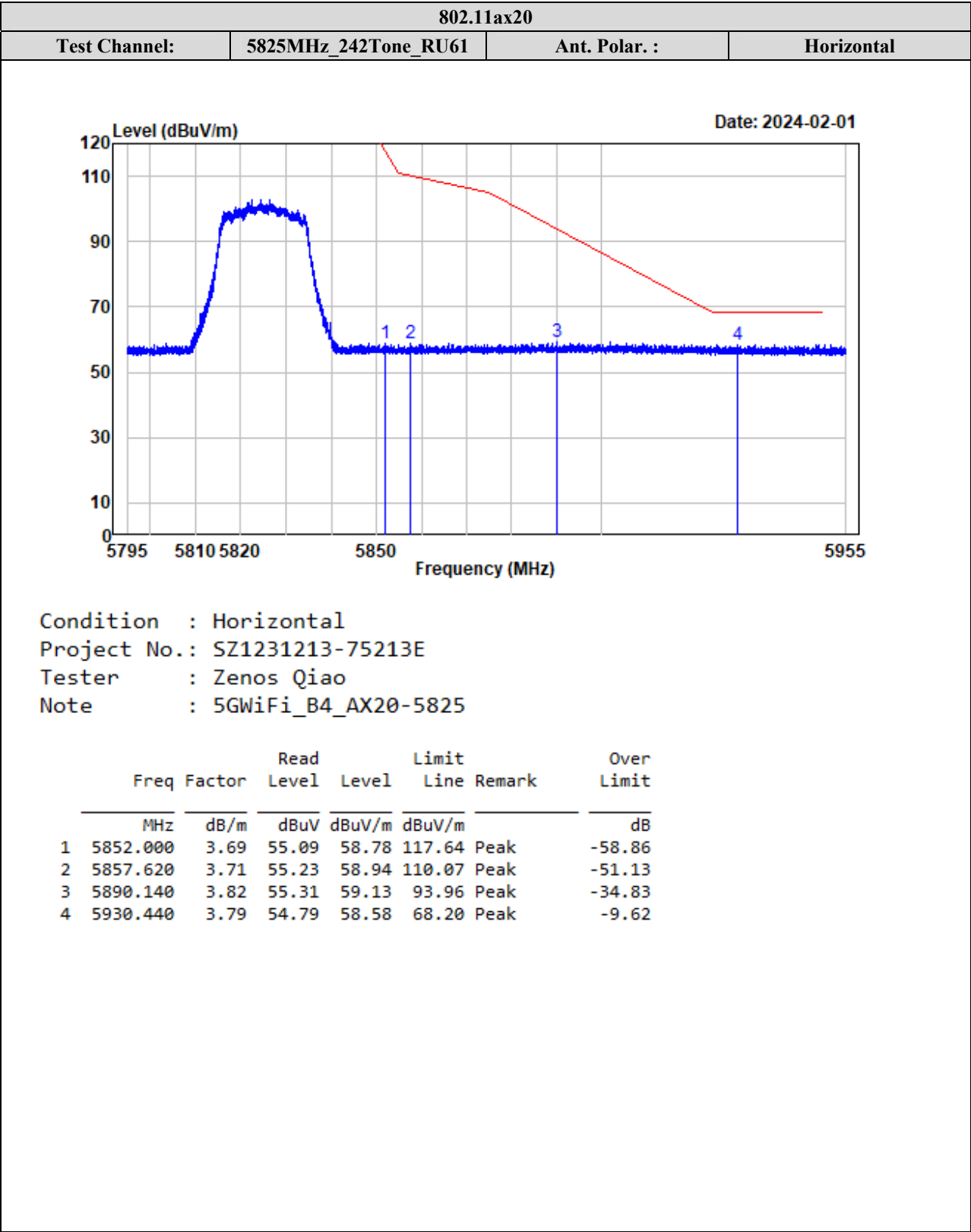


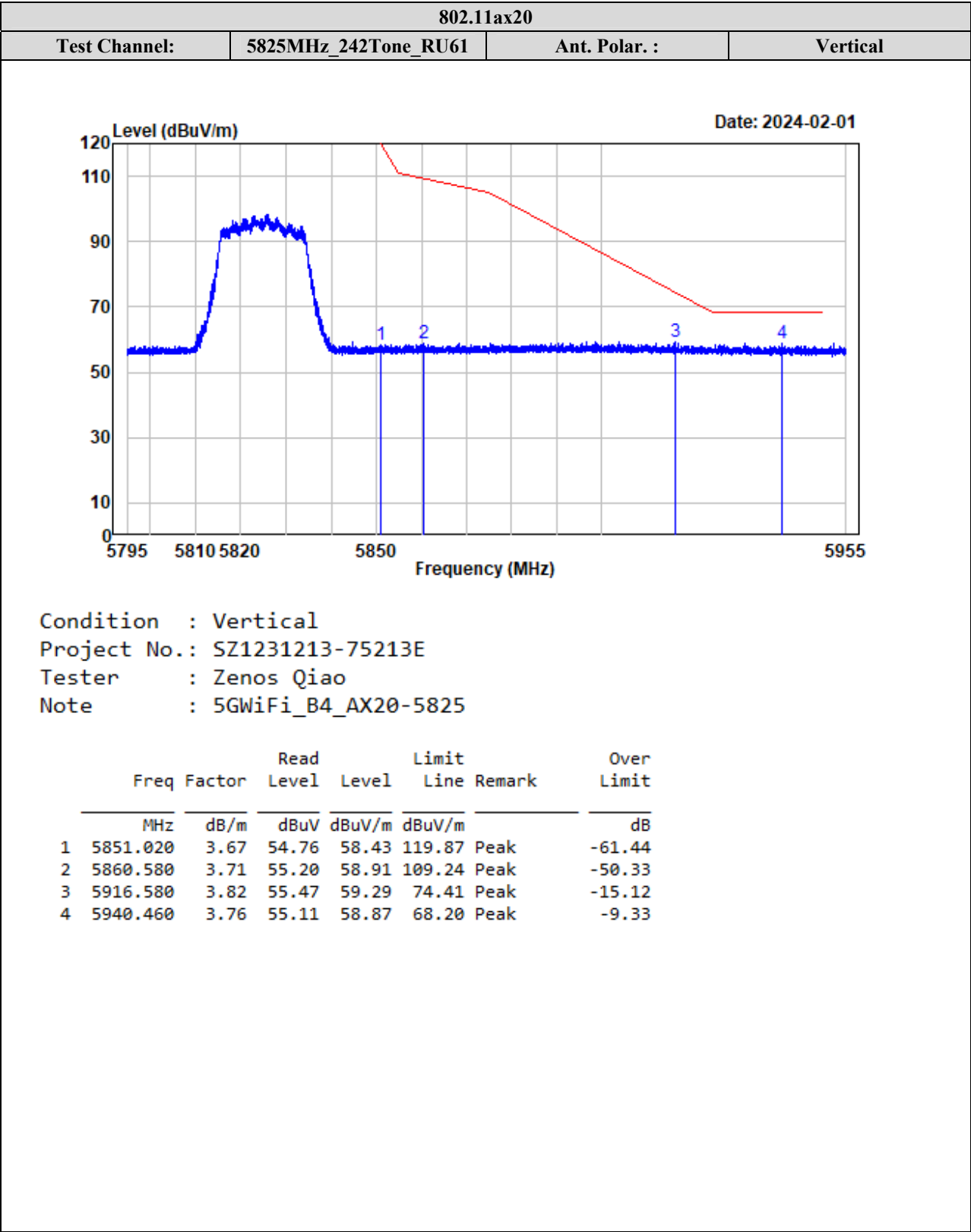


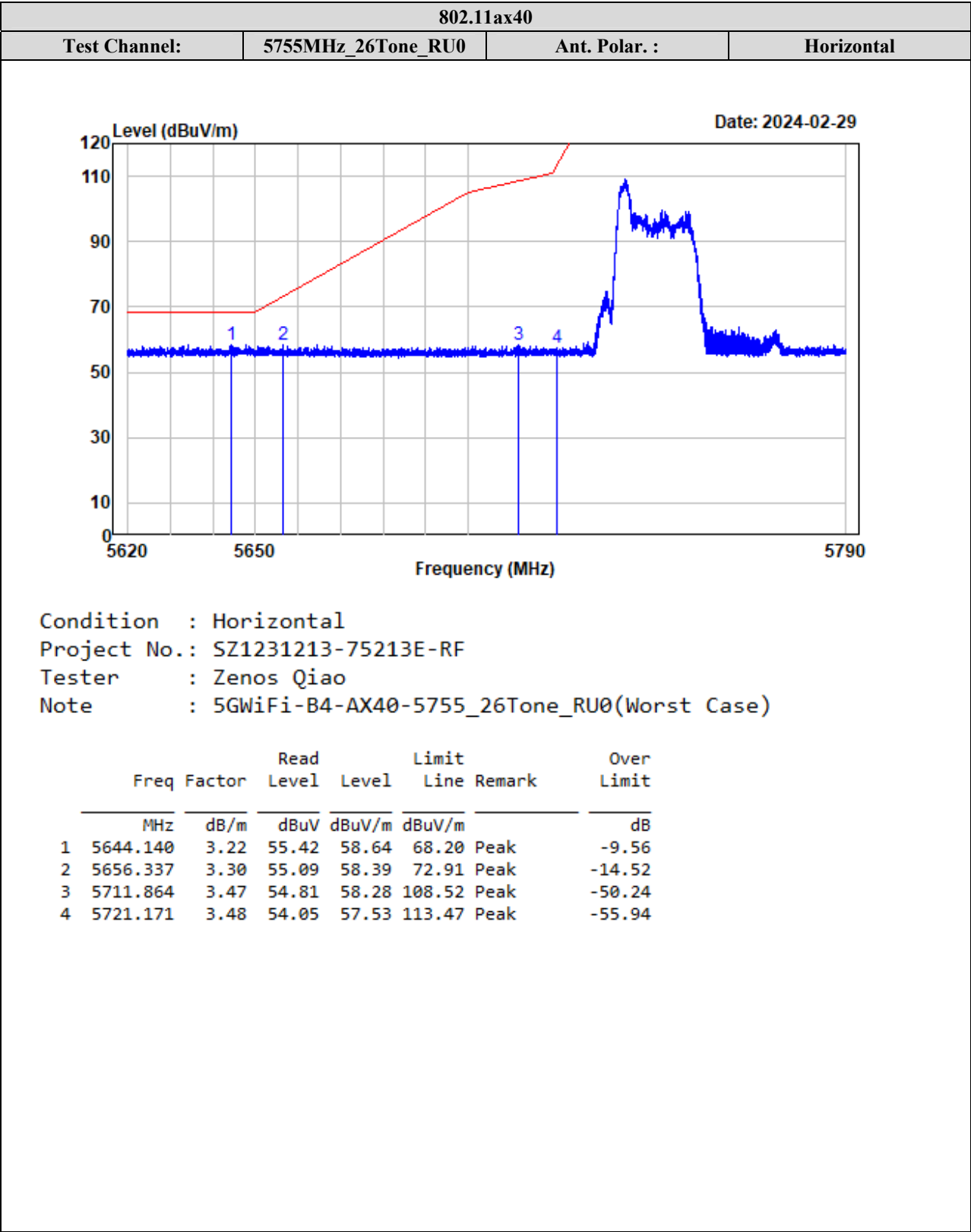
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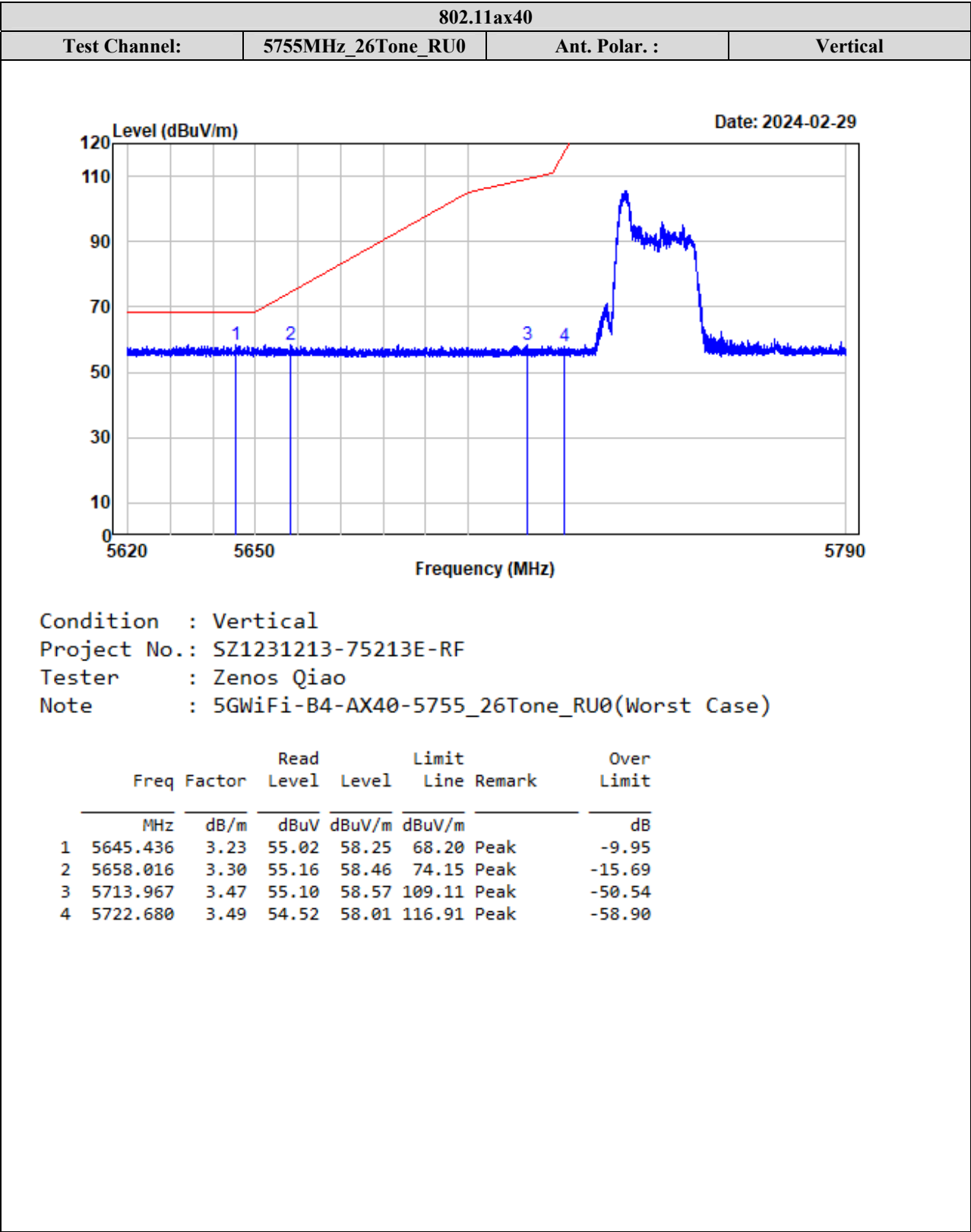
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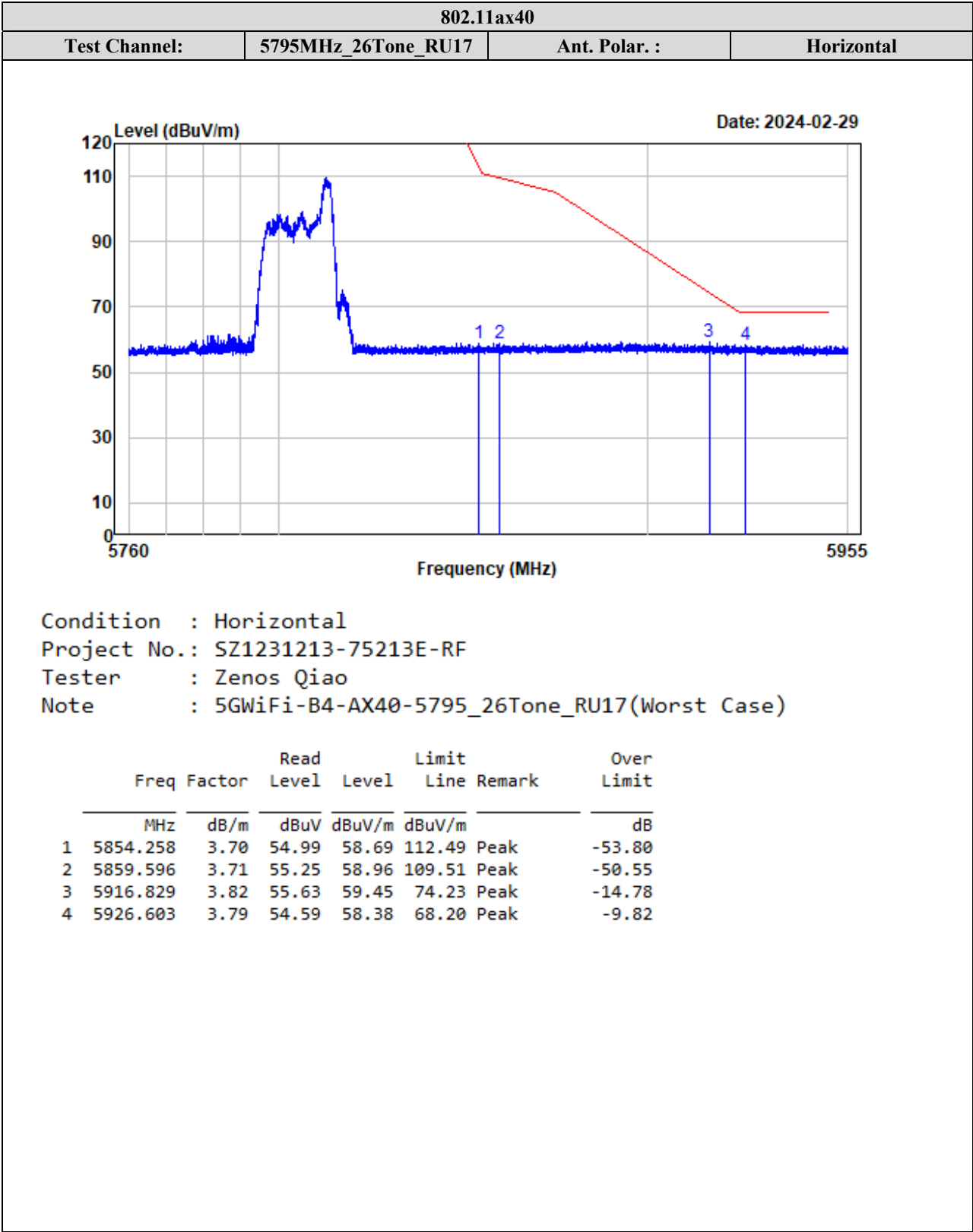
Version 1.0 (2023/10/07)

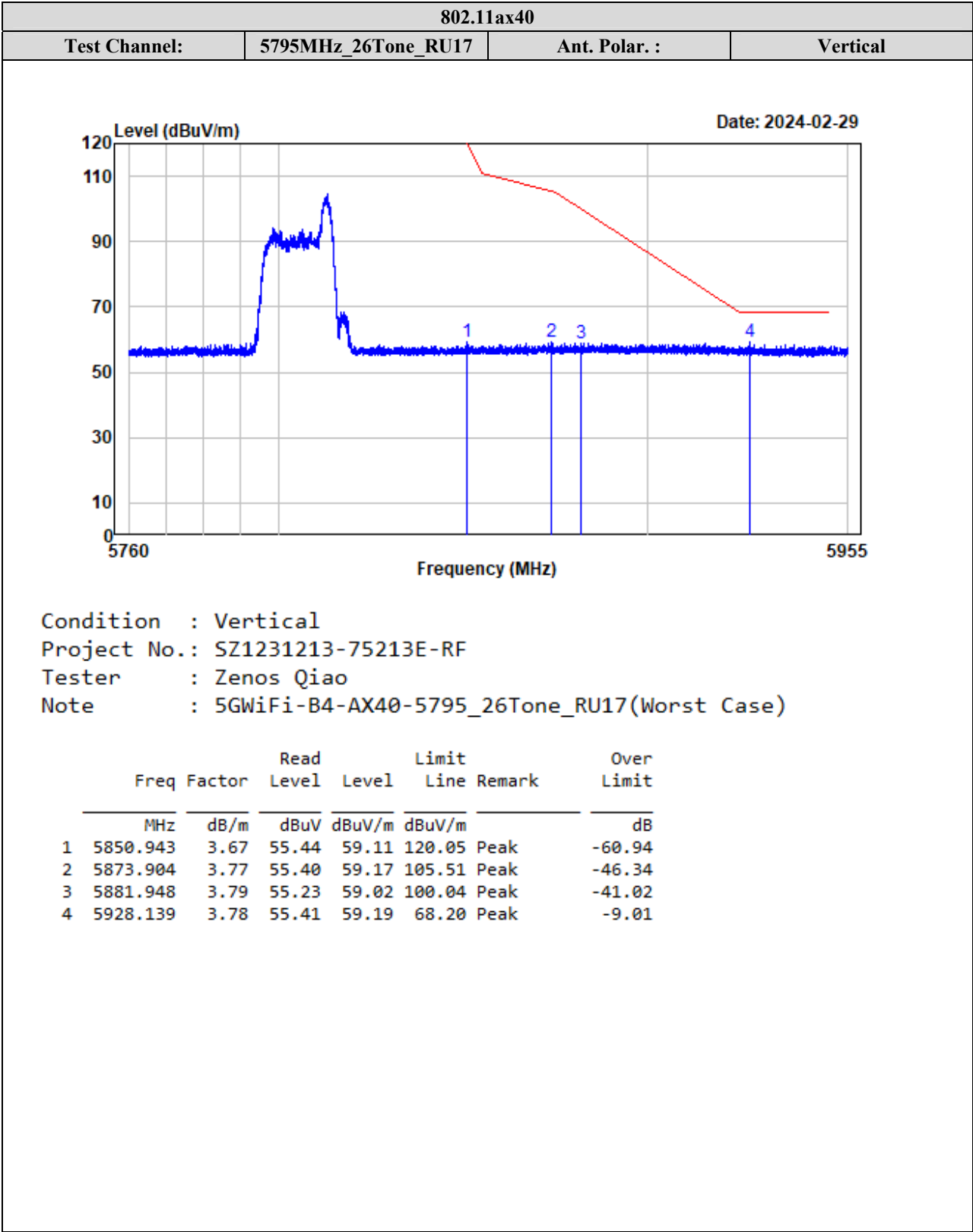


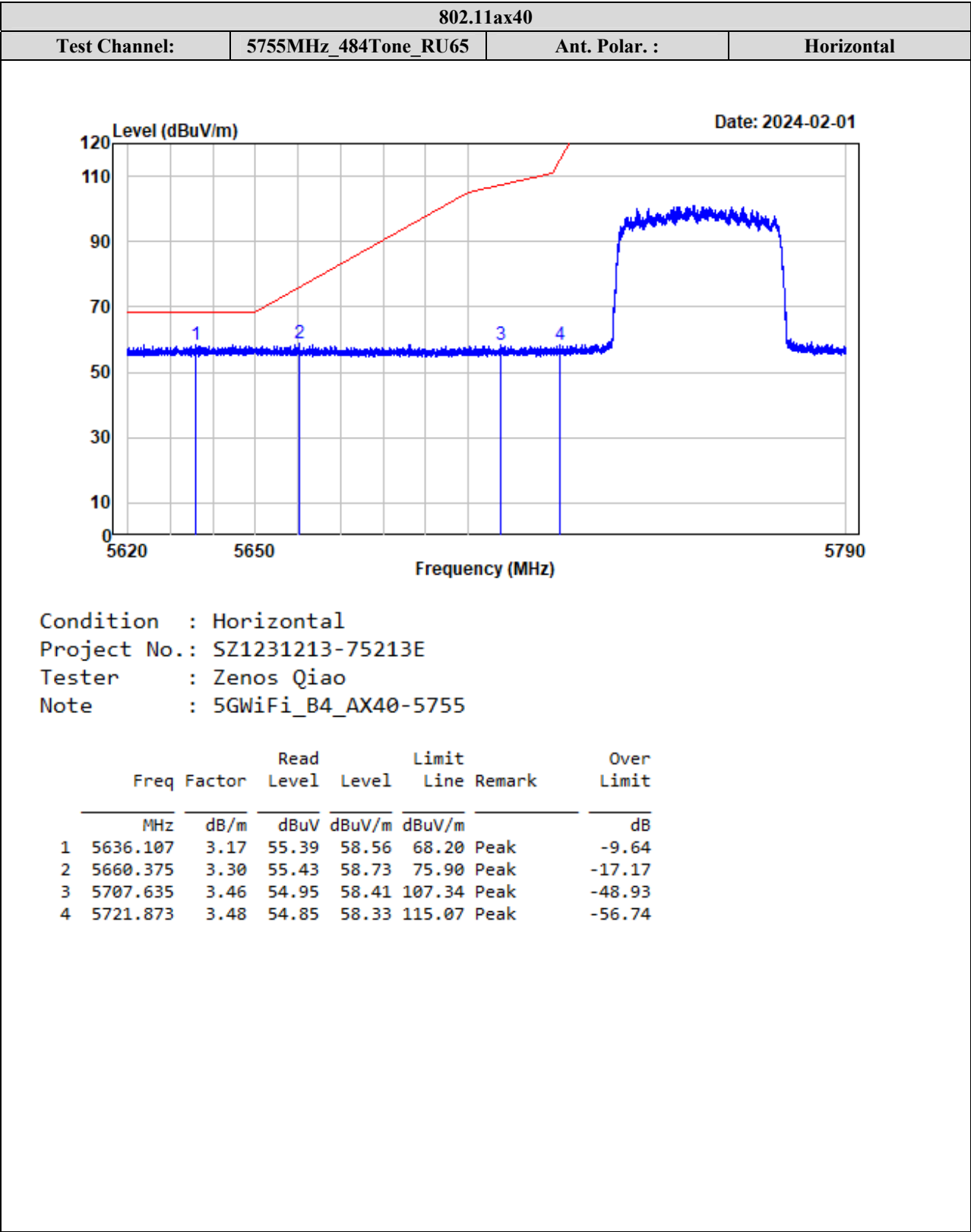


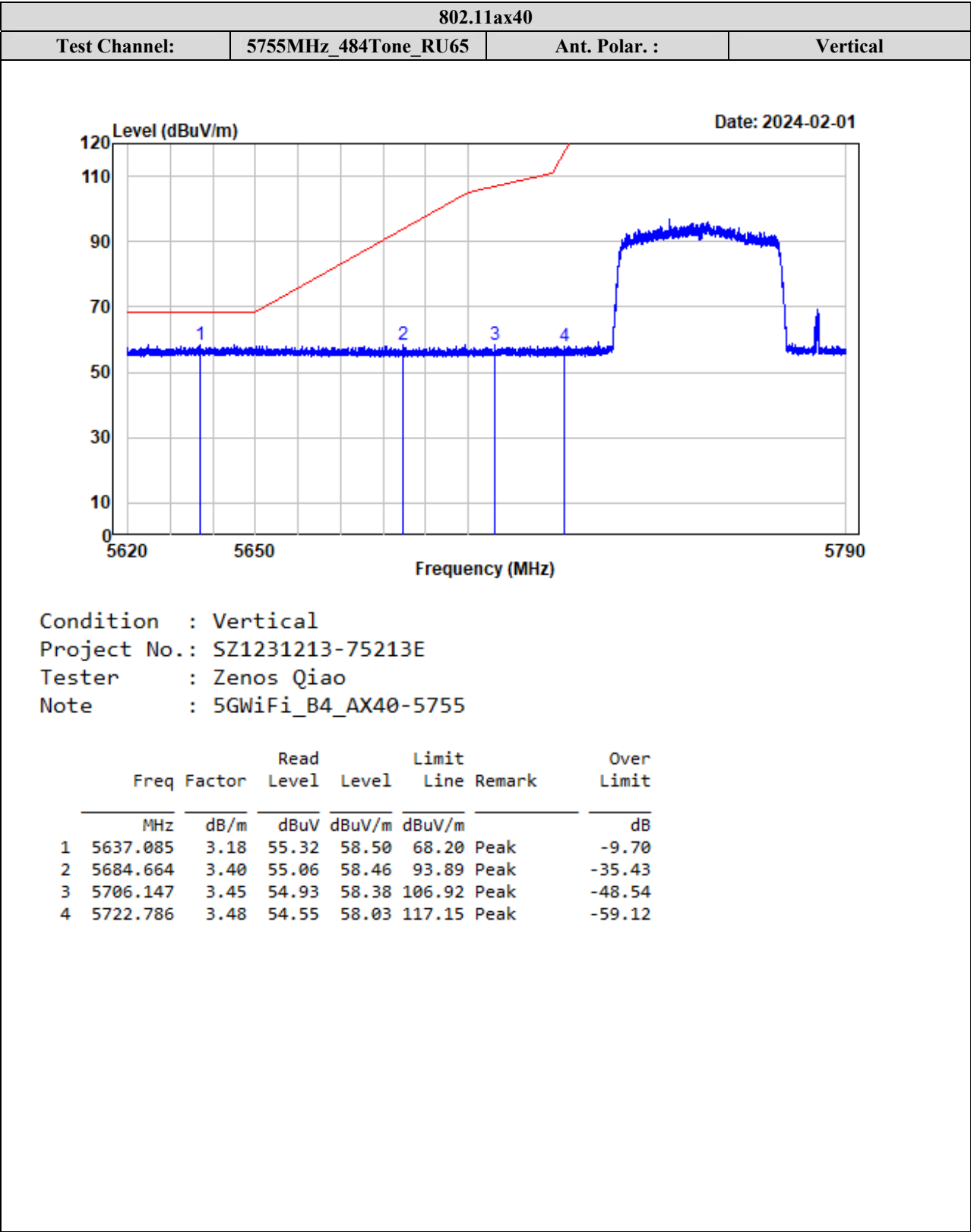


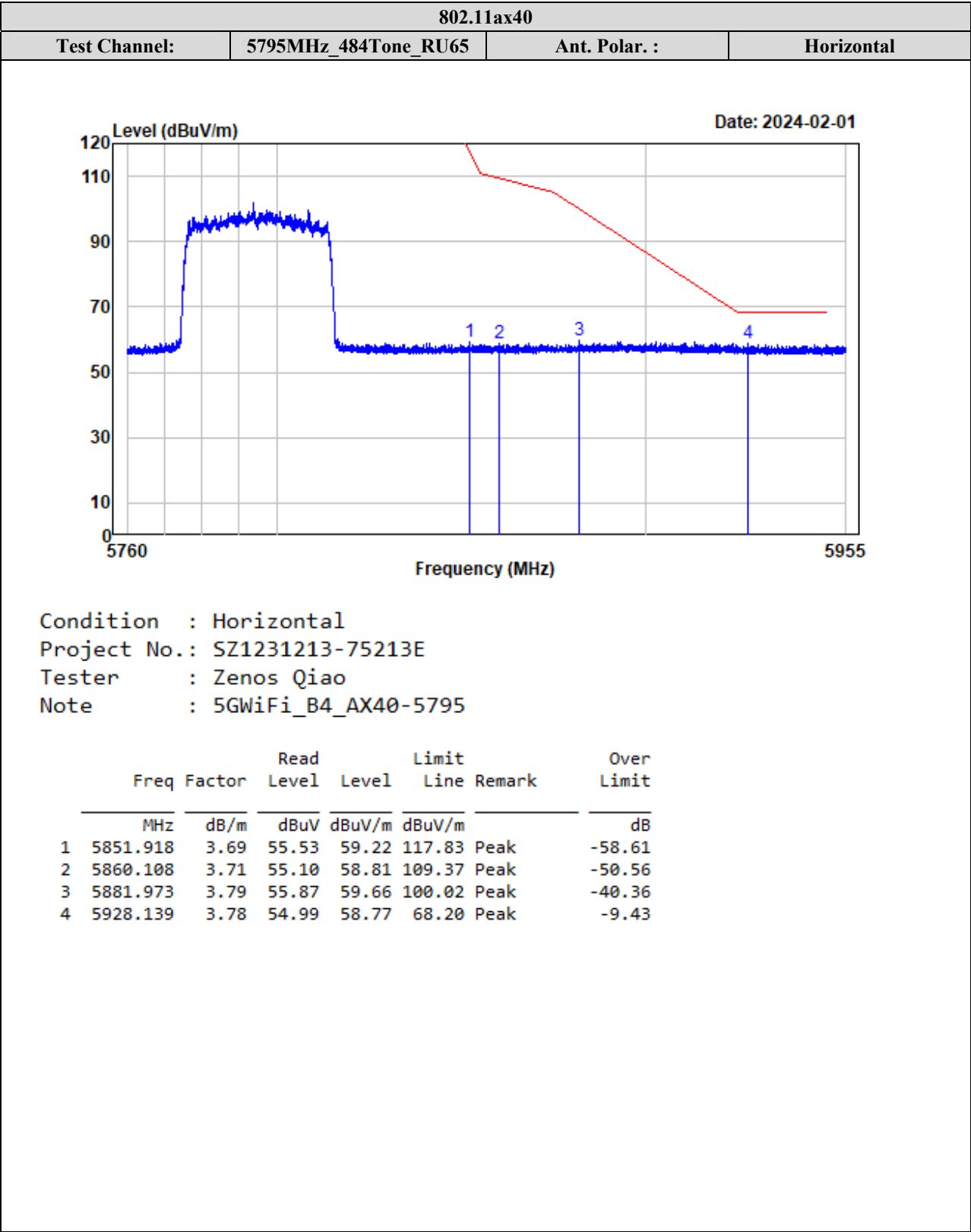


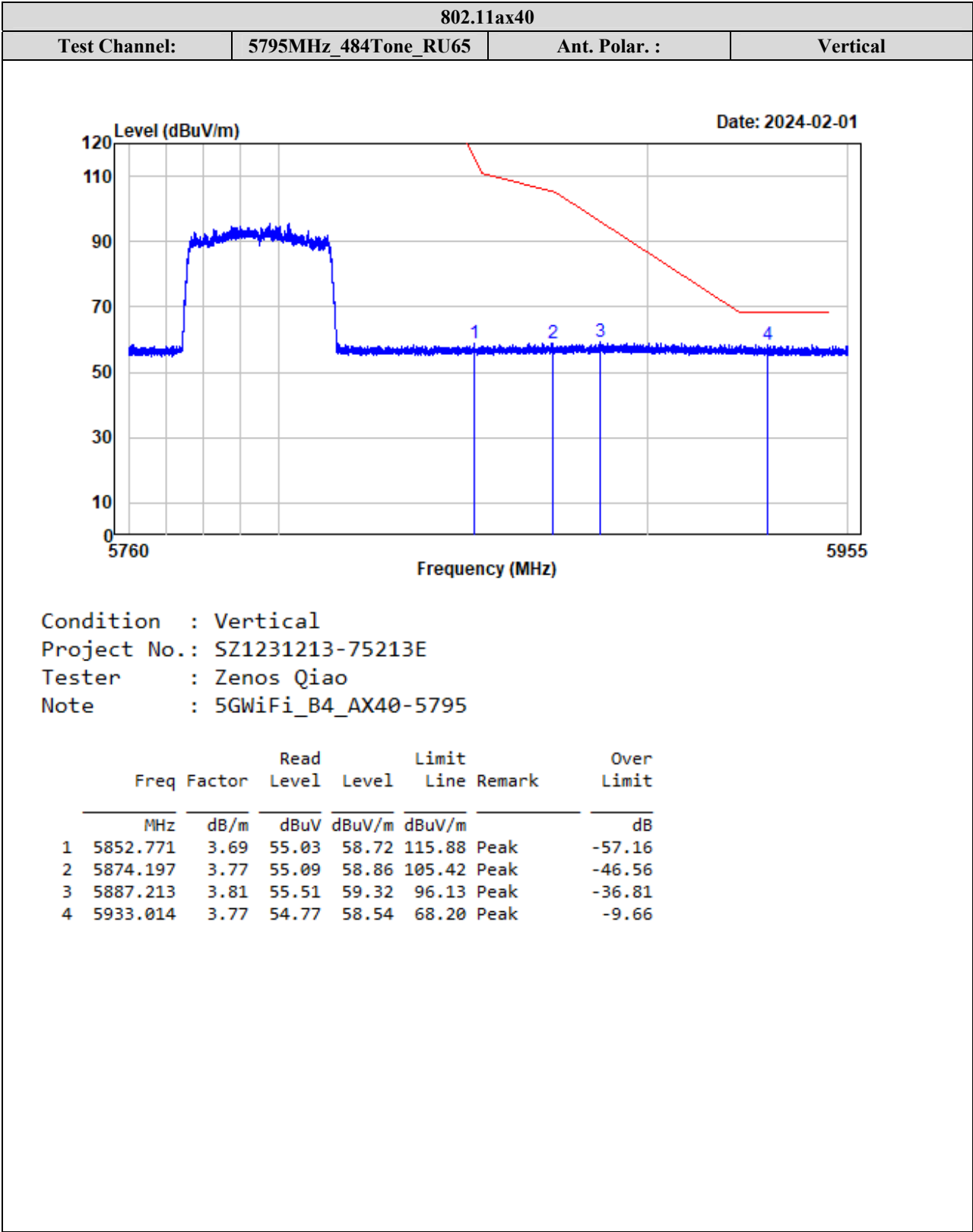


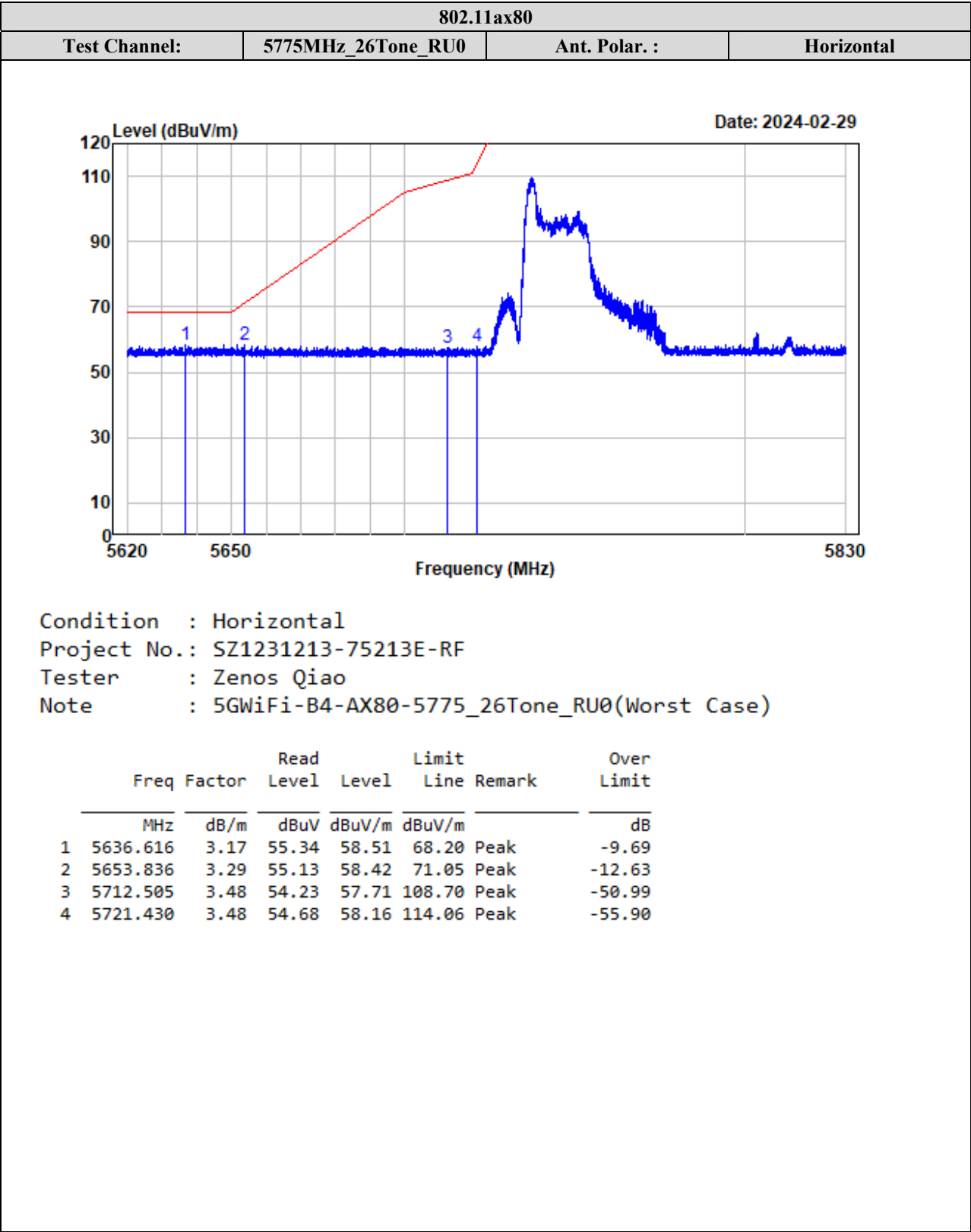


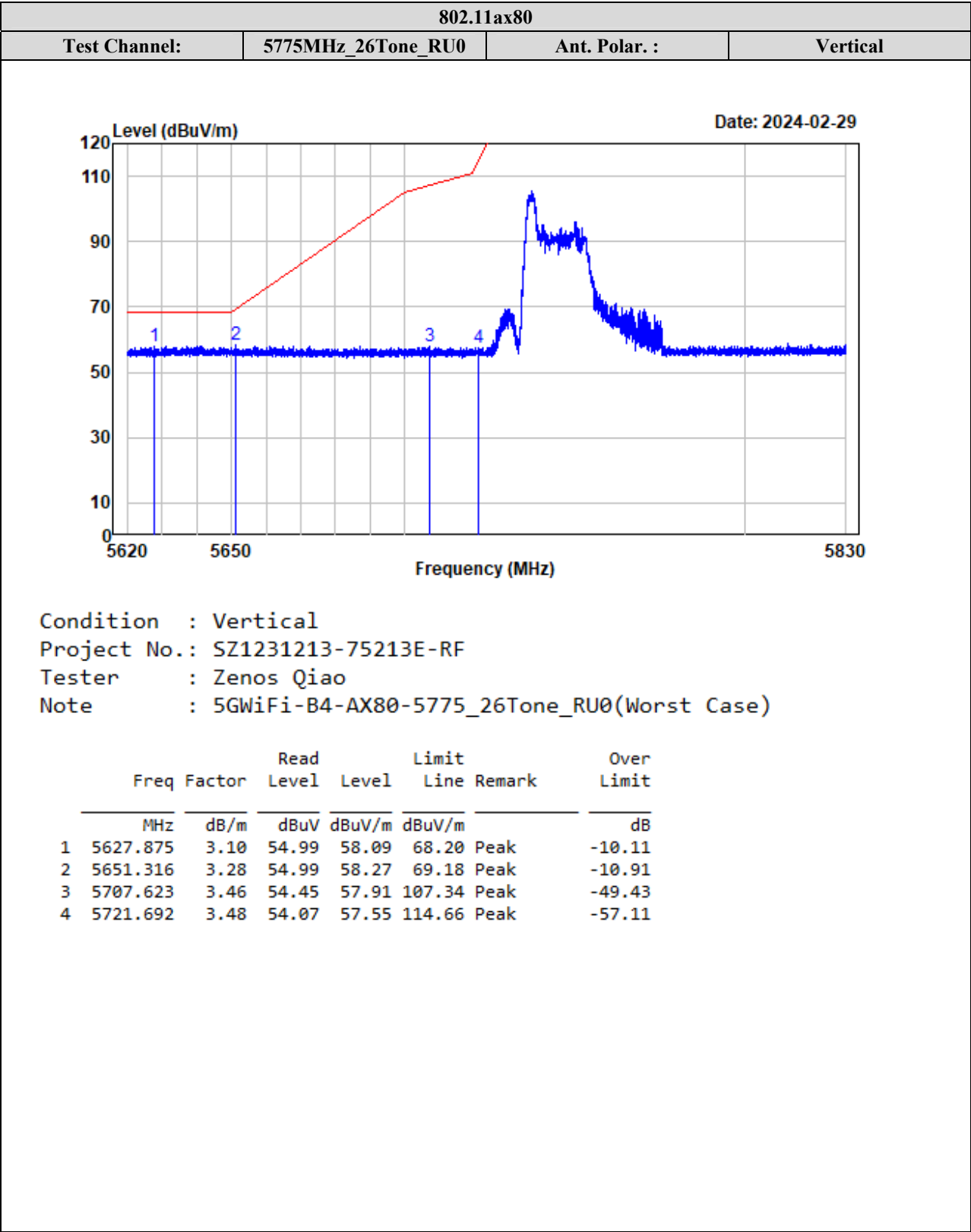


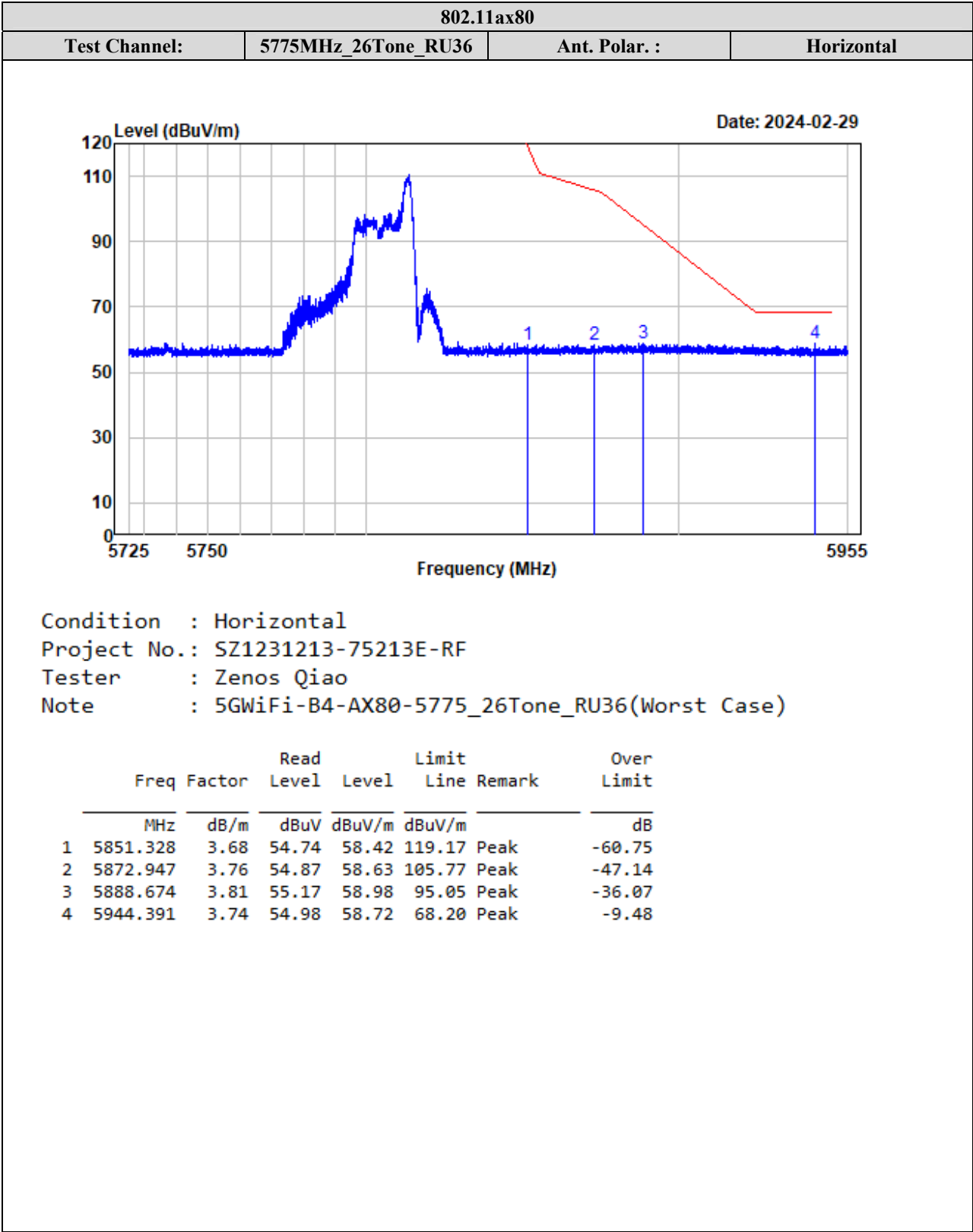


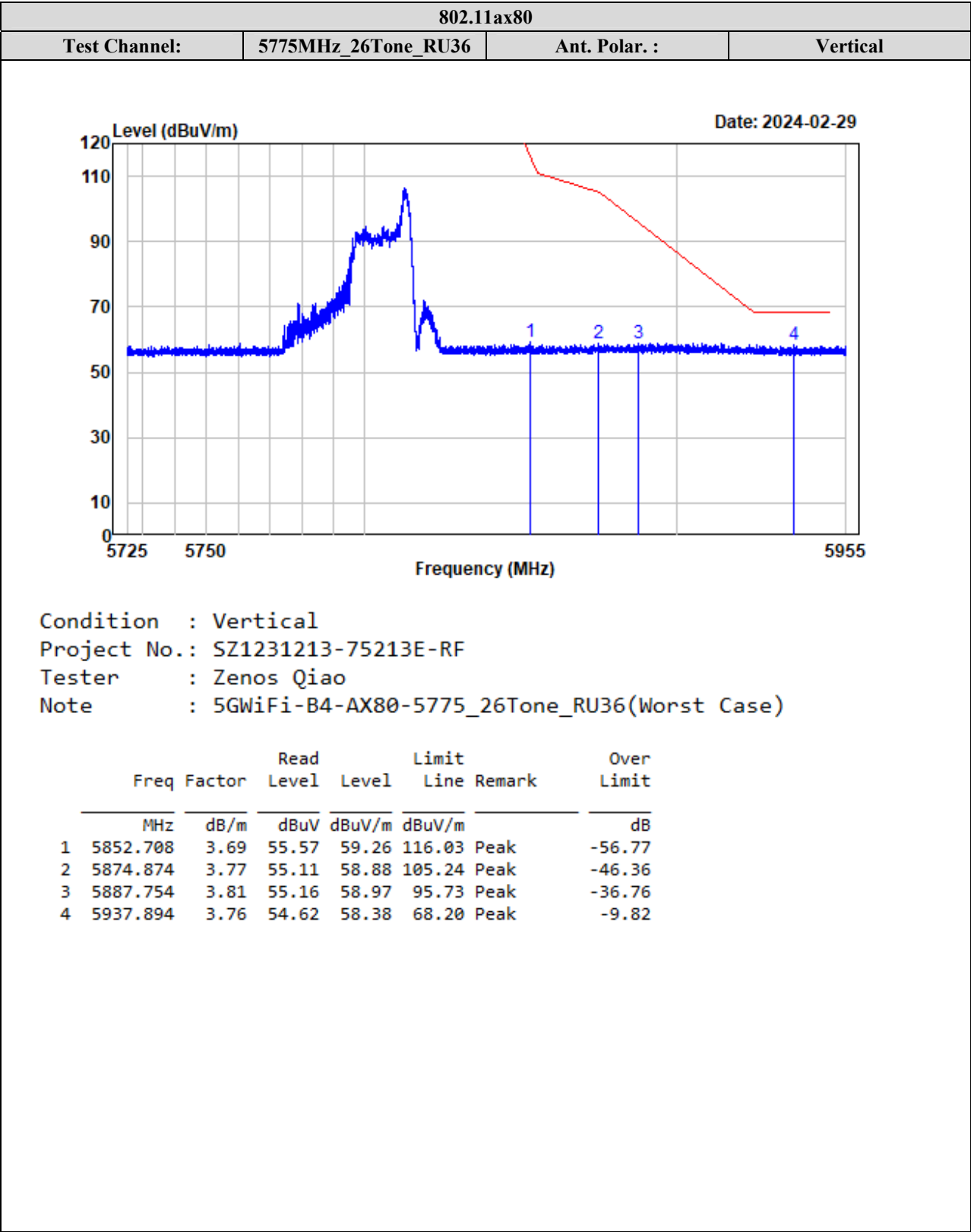


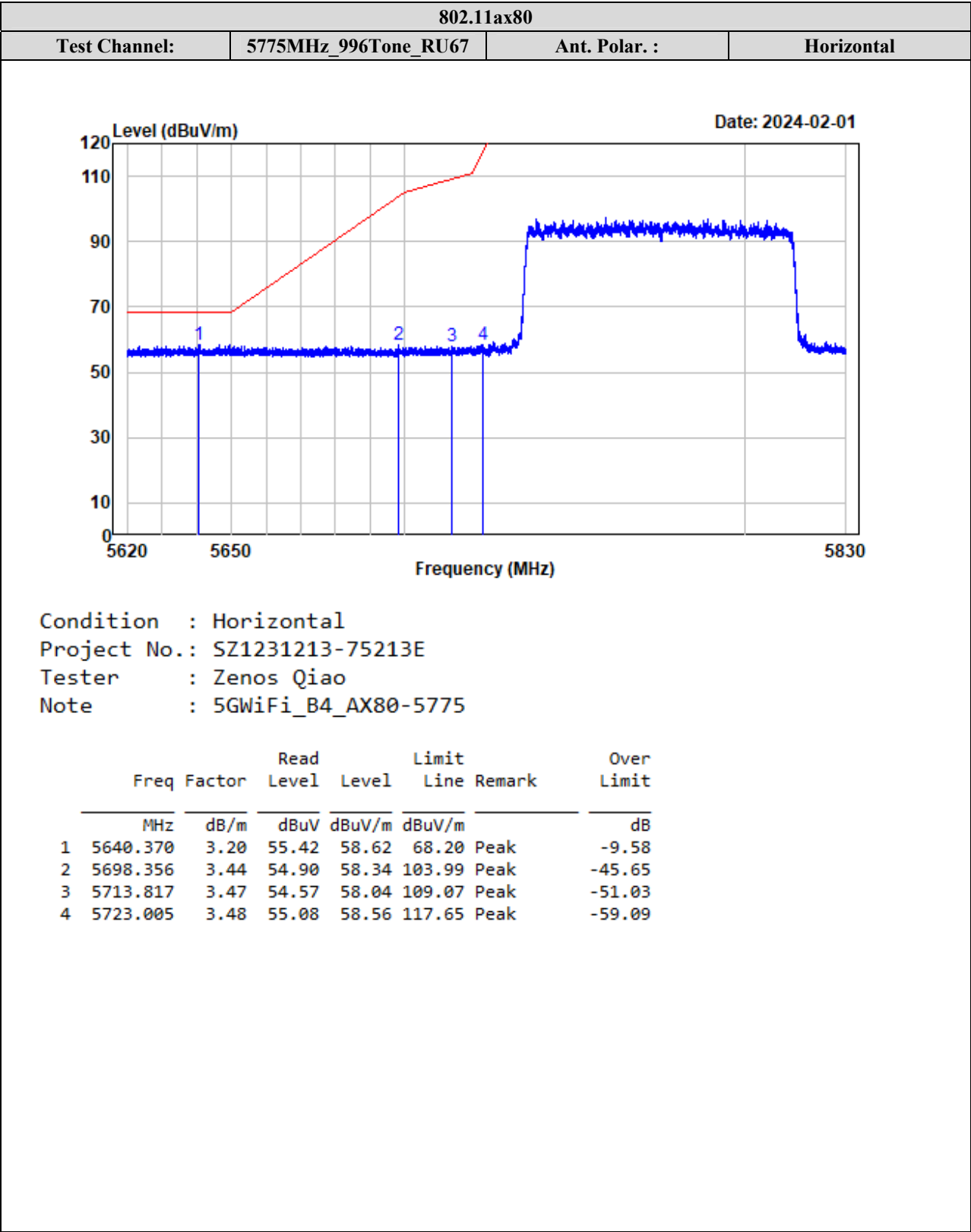


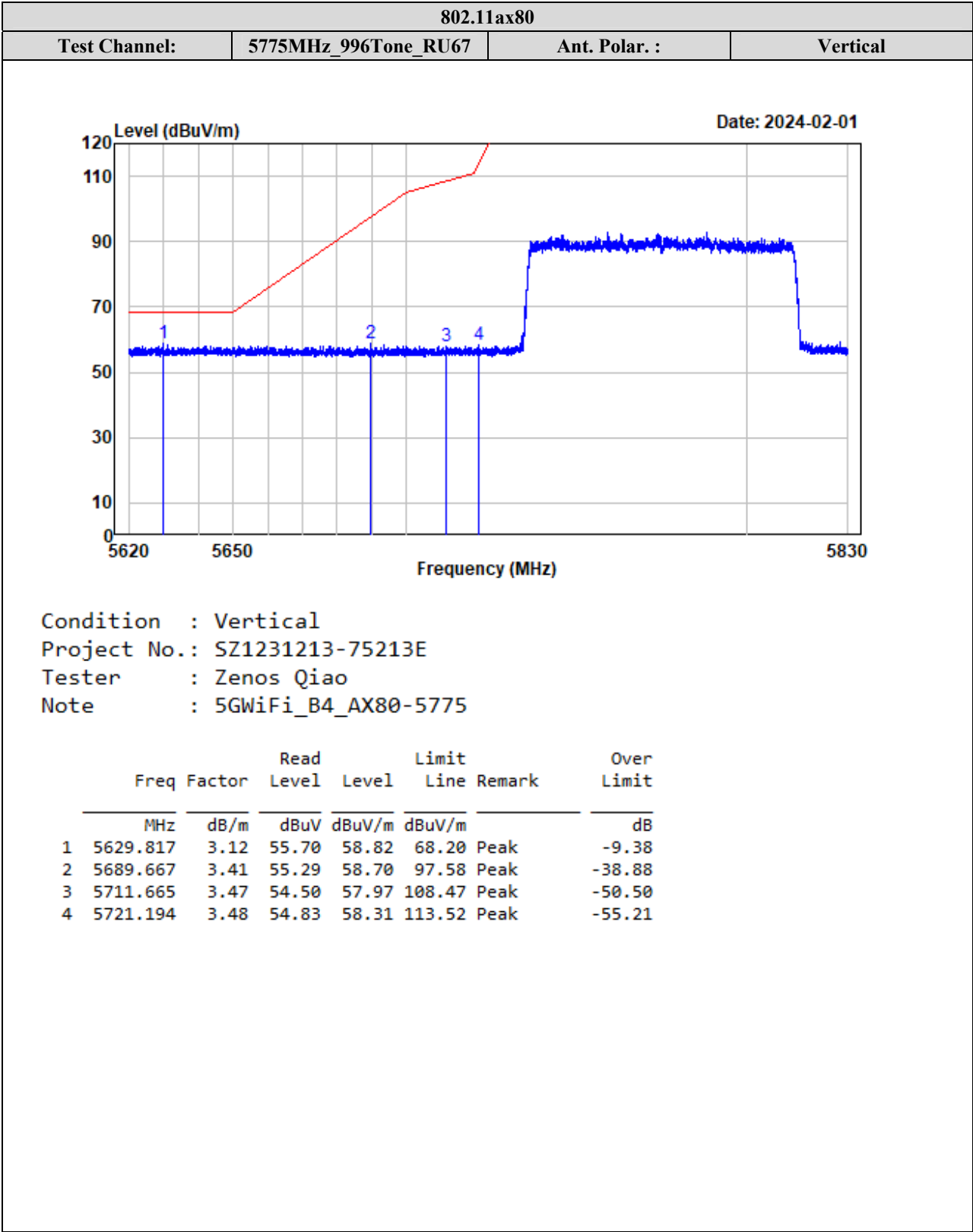


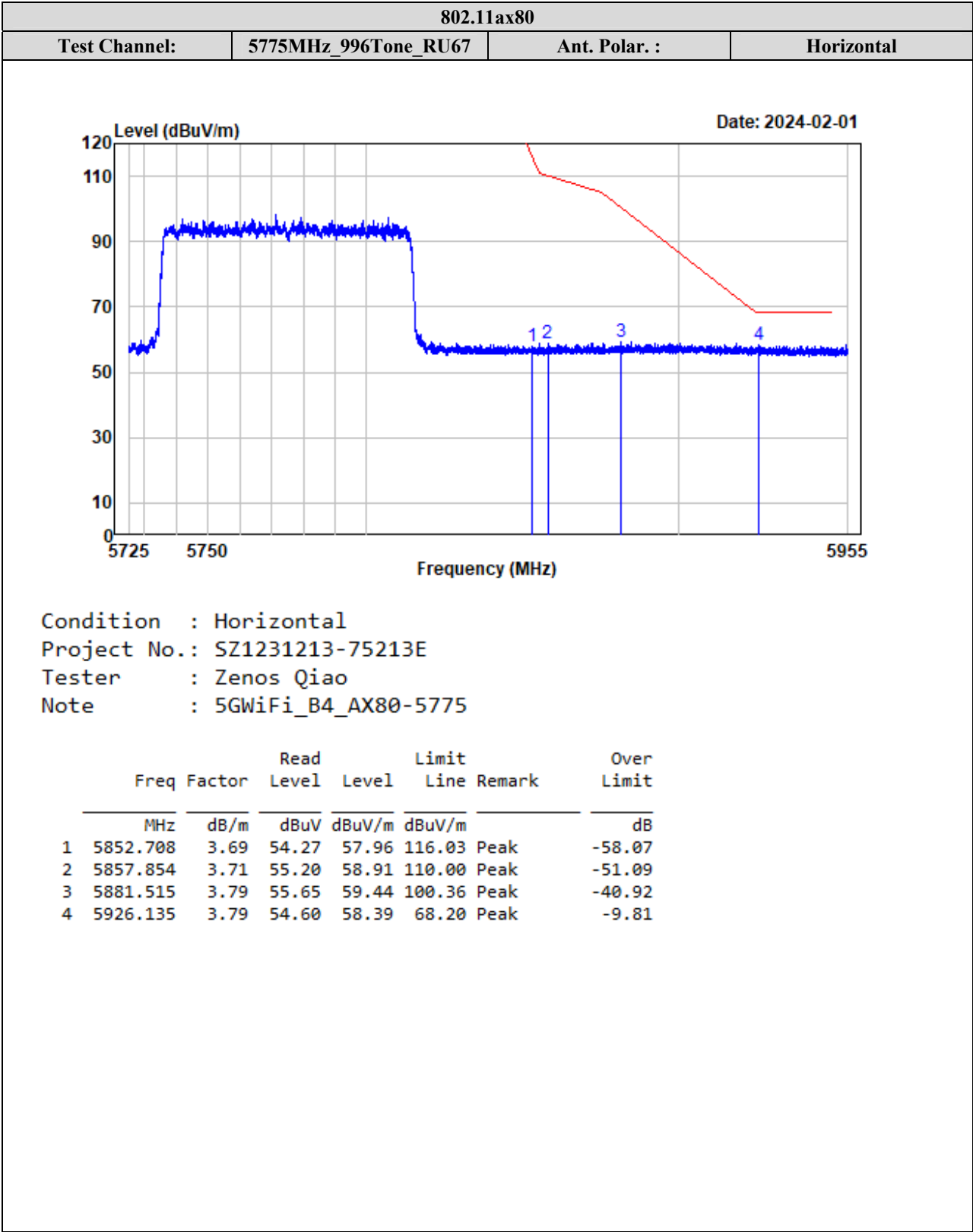


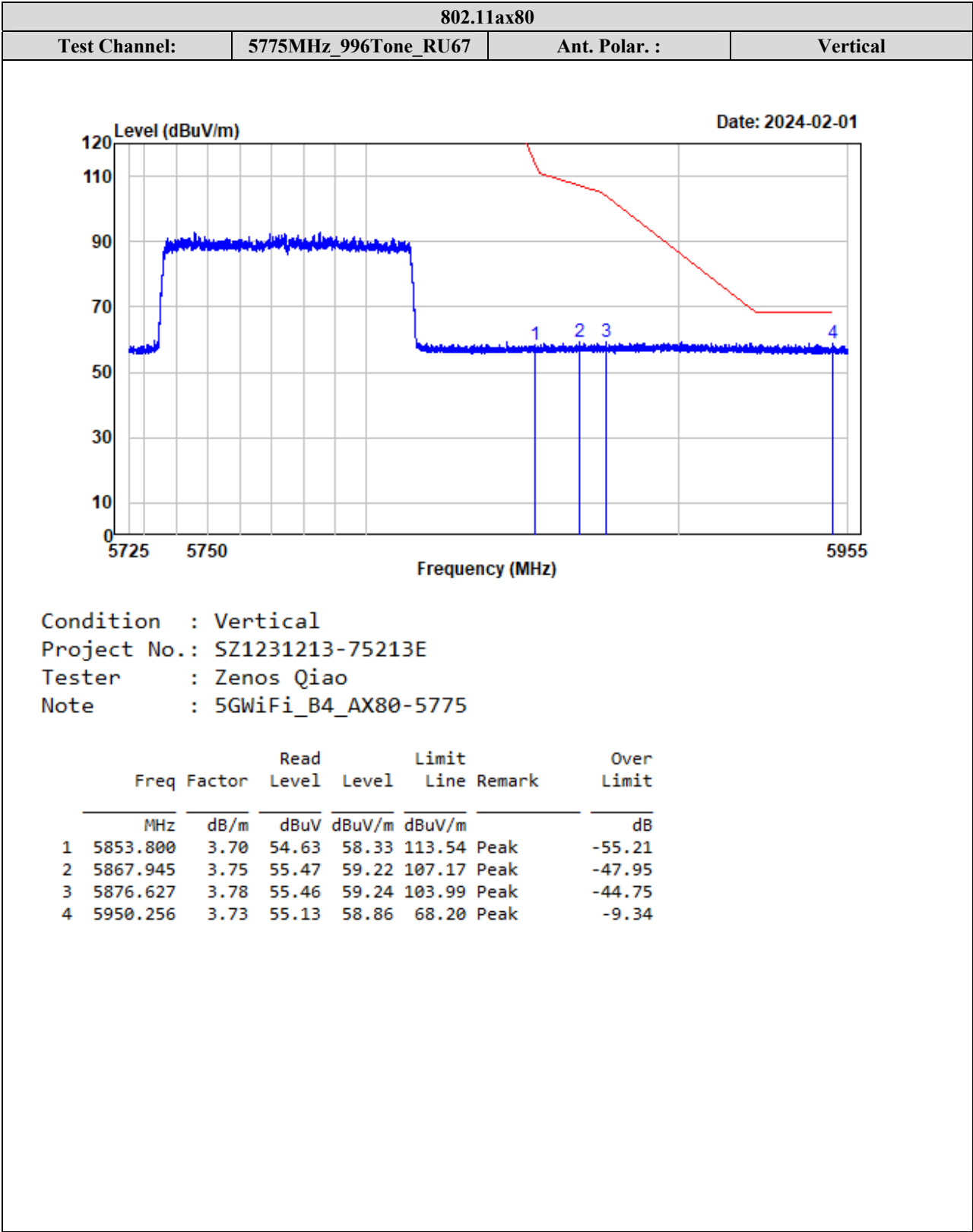




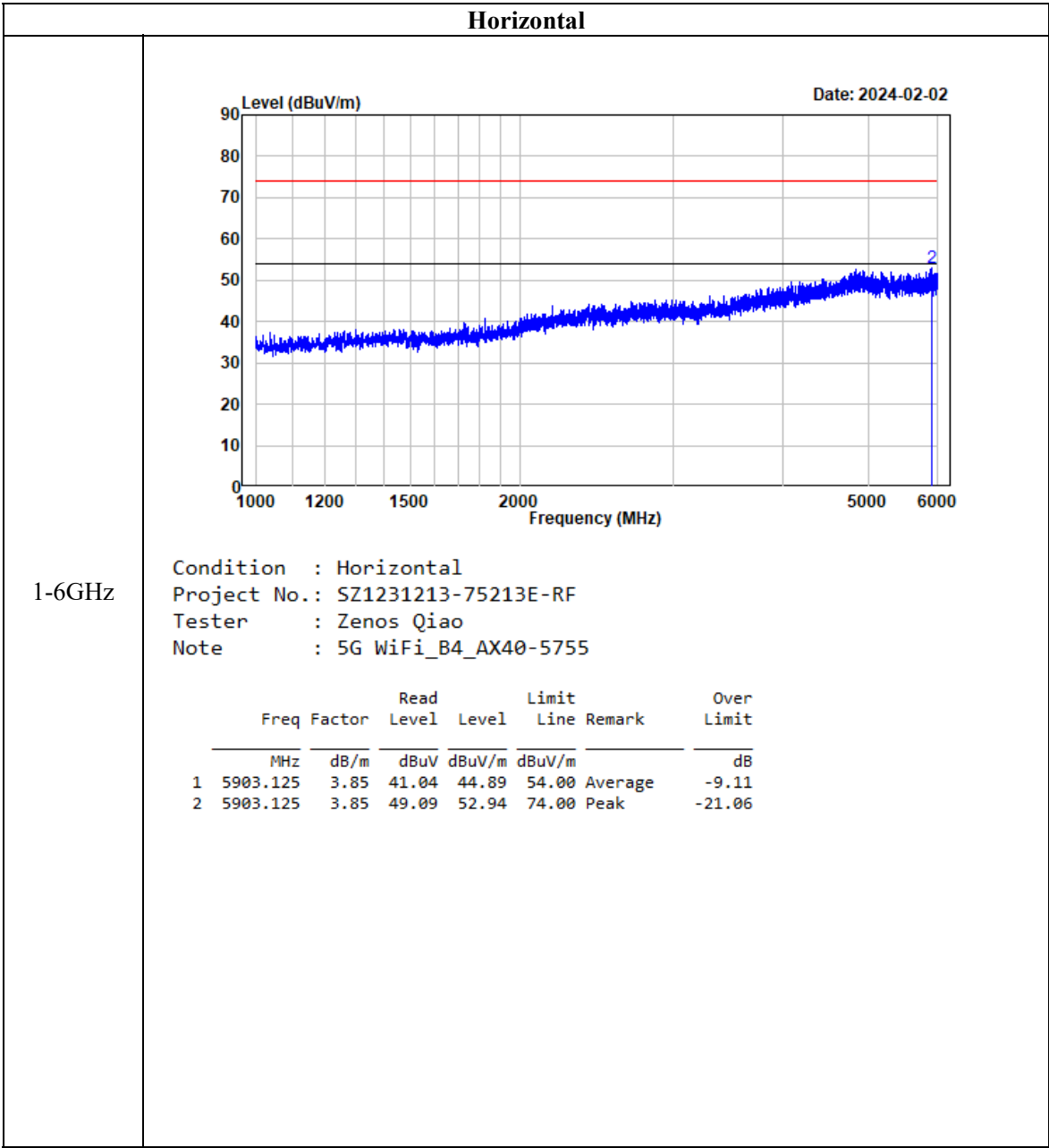


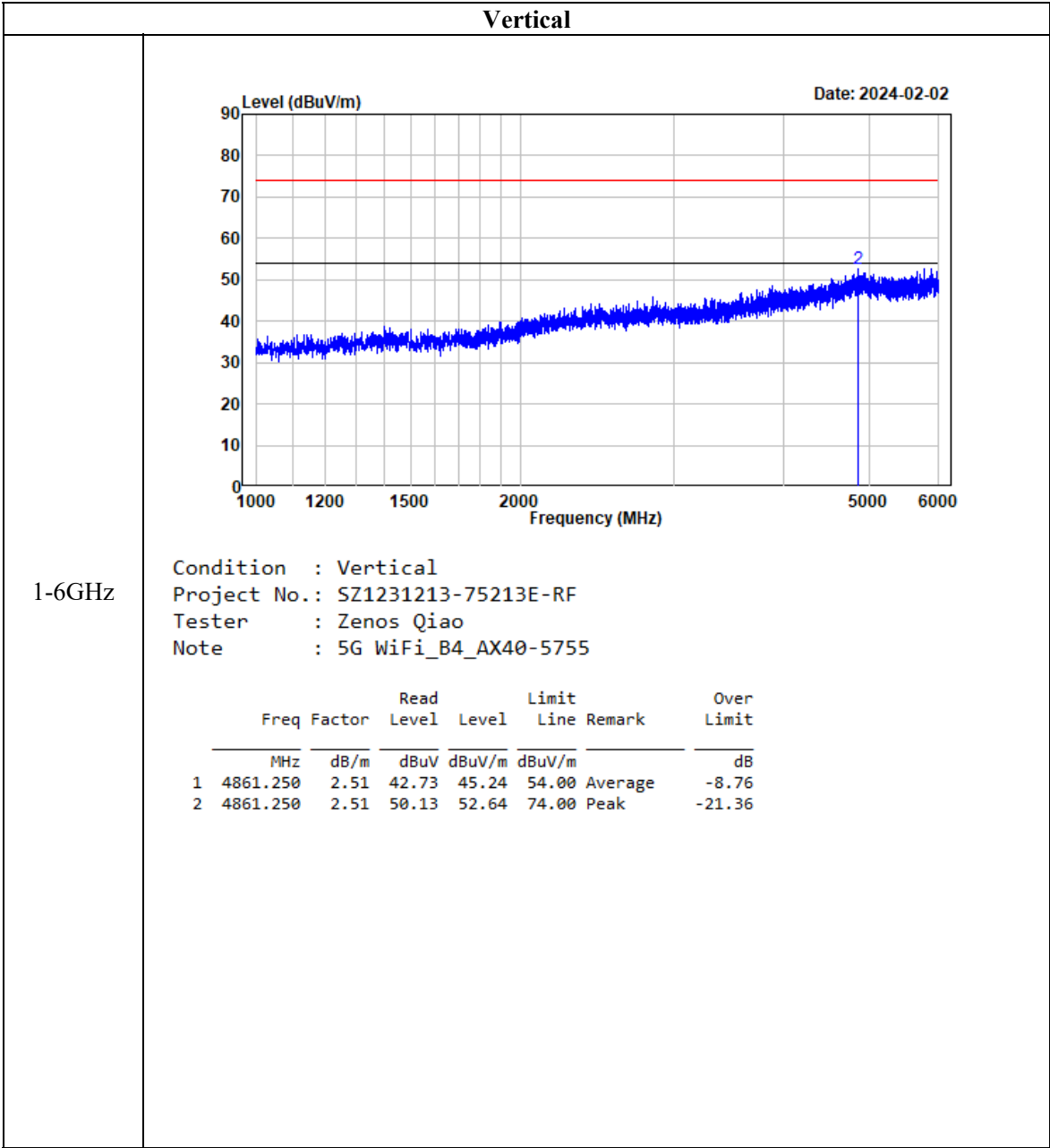


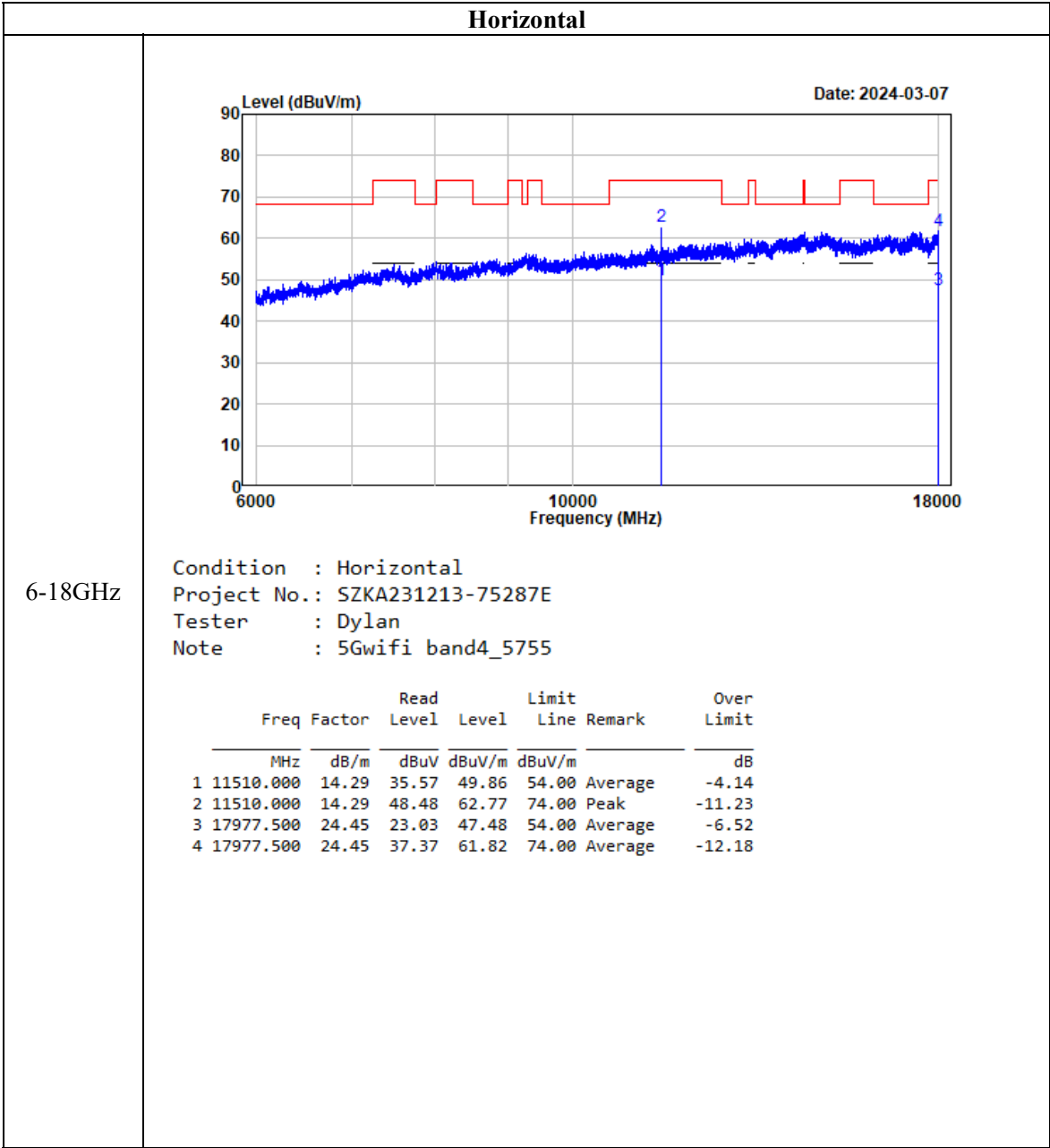


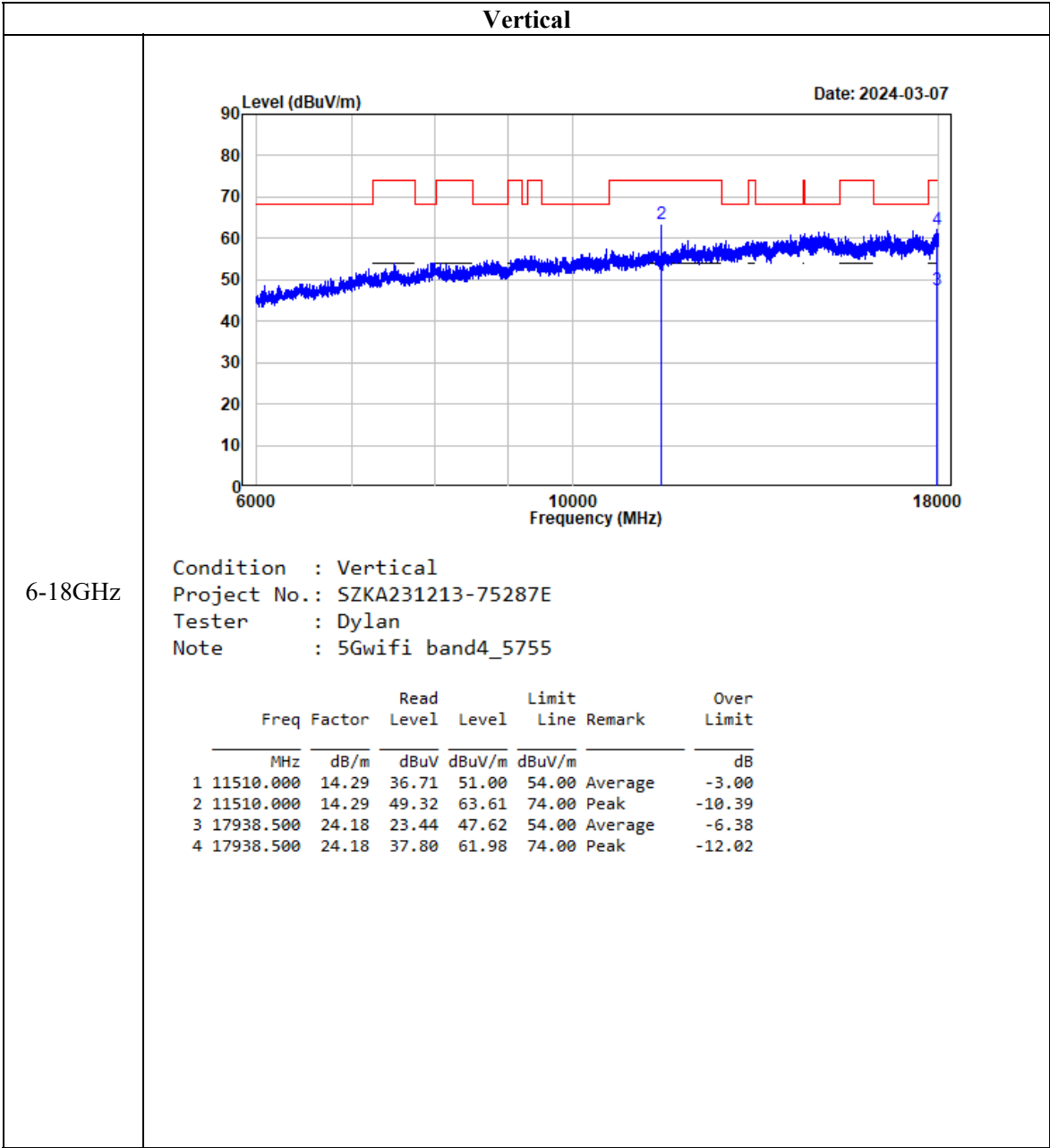


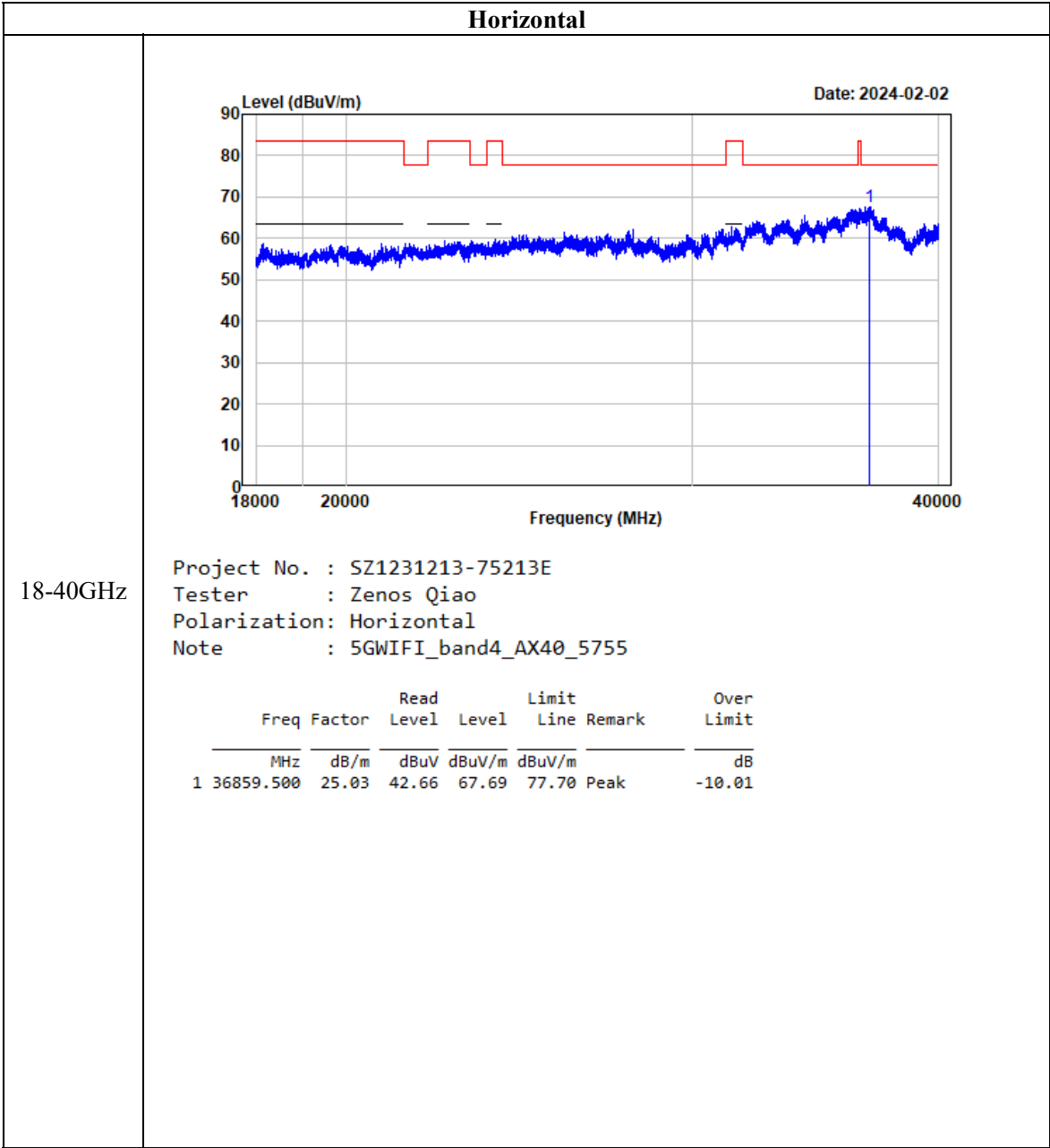
Listed with the worst harmonic margin test plot (802.11ax40, 5755MHz)

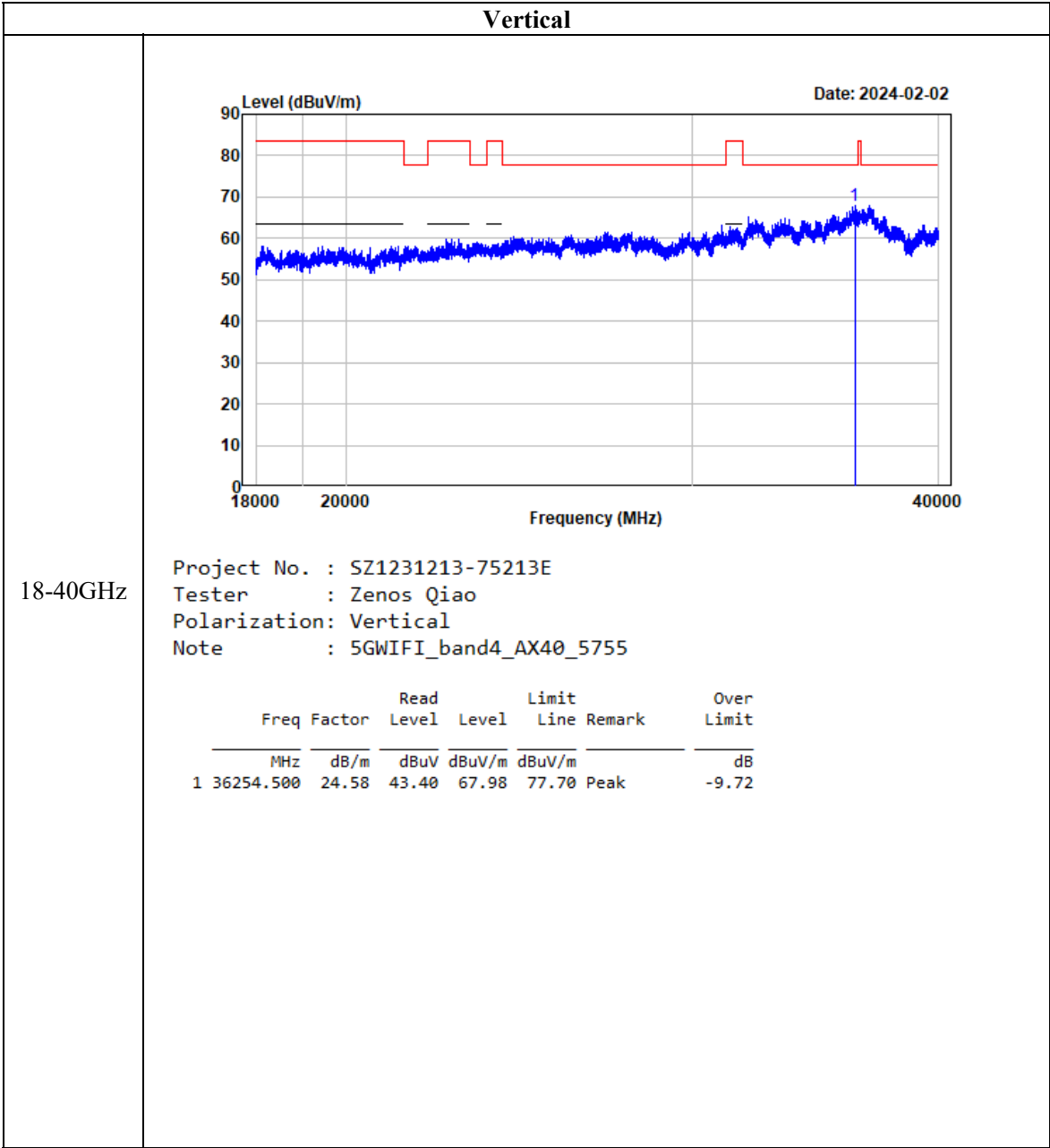












## FCC §15.407(a), (e) – 26 dB & 6dB EMISSION BANDWIDTH

### Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### Test Procedure

According to KDB789033 D02 section II.C and section II.D

#### 1. Emission Bandwidth (EBW)

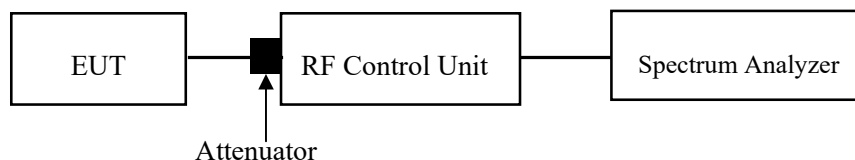
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

#### 2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

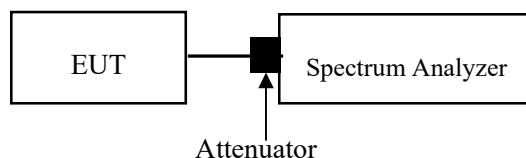
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

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

For 802.11ax Mode:



For other Modes:



# Test Data

## Environmental Conditions

|                    |                 |
|--------------------|-----------------|
| Temperature:       | 23~26 °C        |
| Relative Humidity: | 40~50 %         |
| ATM Pressure:      | 100.1~101.0 kPa |

The testing was performed by Bamboo Zhan from 2024-02-27 to 2024-02-28 and Tom Liu from 2024-02-29 to 2024-03-01.

EUT operation mode: Transmitting

**Test Result: Compliant.**

## 5150-5250MHz:

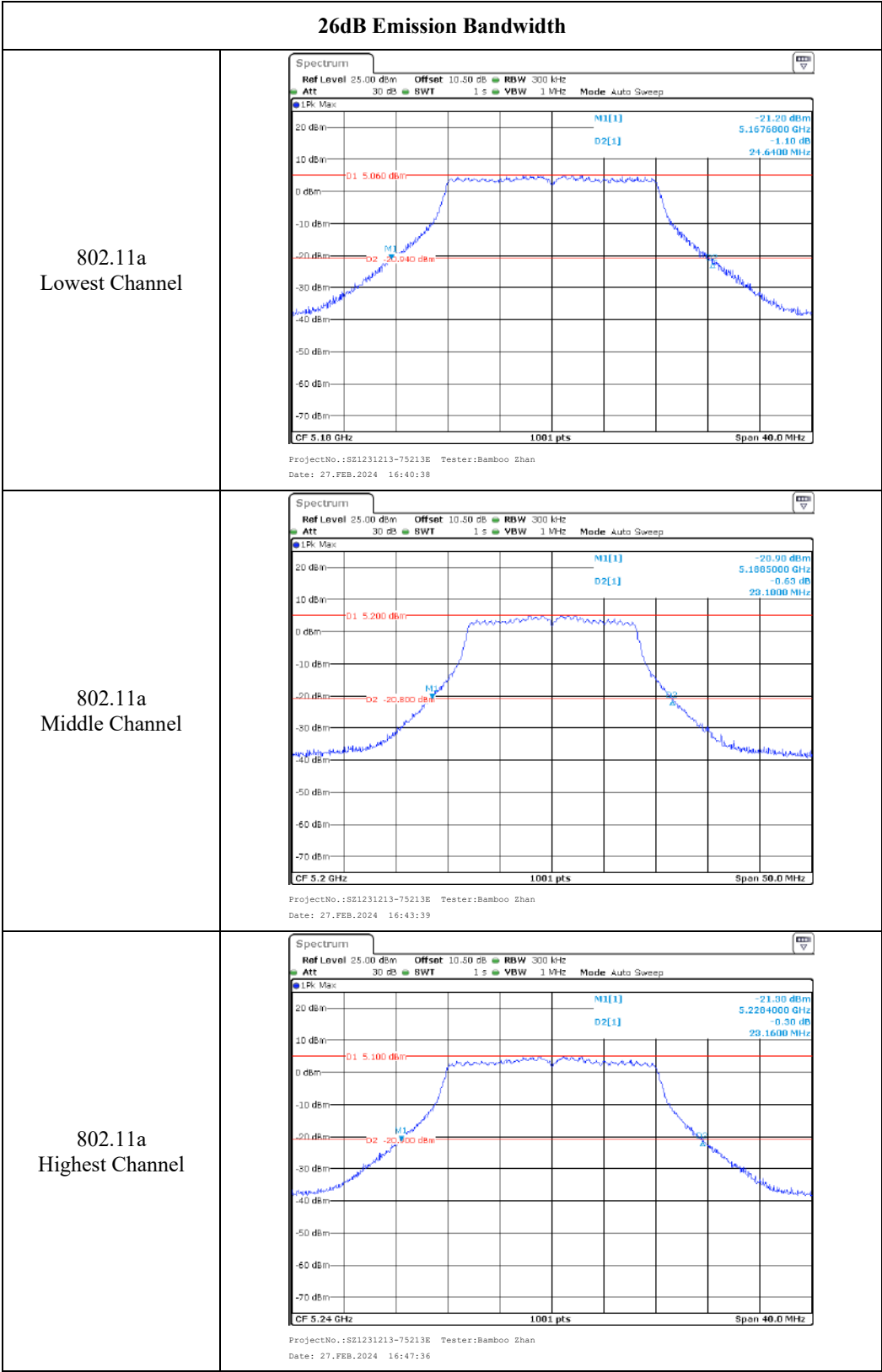
| Test Modes                                                                                                                                                                  | Test Frequency (MHz) | 26 dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|------------------------------|
| 802.11a                                                                                                                                                                     | 5180                 | 24.64                 | 17.34                        |
|                                                                                                                                                                             | 5200                 | 23.10                 | 17.02                        |
|                                                                                                                                                                             | 5240                 | 23.16                 | 17.02                        |
| 802.11ac vht20                                                                                                                                                              | 5180                 | 25.76                 | 18.50                        |
|                                                                                                                                                                             | 5200                 | 24.05                 | 18.22                        |
|                                                                                                                                                                             | 5240                 | 24.70                 | 18.18                        |
| 802.11ac vht40                                                                                                                                                              | 5190                 | 41.28                 | 36.28                        |
|                                                                                                                                                                             | 5230                 | 40.95                 | 36.28                        |
| 802.11ac vht80                                                                                                                                                              | 5210                 | 80.92                 | 75.76                        |
| Note: Test only was performed at ANT 1.<br>The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz,<br>please refer to the test plots of 99% Occupied Bandwidth |                      |                       |                              |

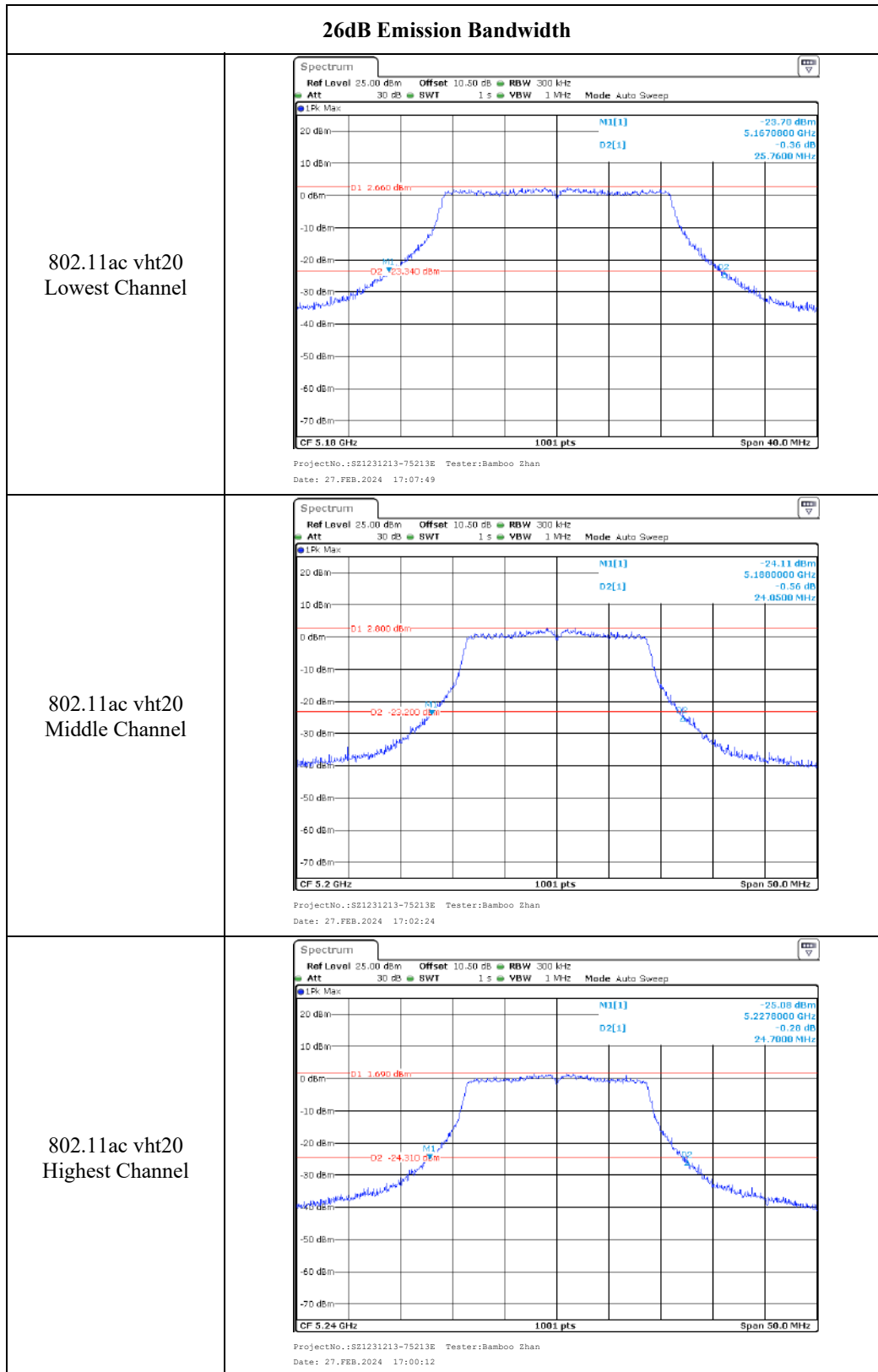
## 5725-5850MHz:

| Test Modes                                                                                                                                                                                                             | Test Frequency (MHz) | 6 dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|------------------------------|
| 802.11a                                                                                                                                                                                                                | 5745                 | 16.64                | 17.02                        |
|                                                                                                                                                                                                                        | 5785                 | 16.52                | 17.02                        |
|                                                                                                                                                                                                                        | 5825                 | 16.60                | 17.02                        |
| 802.11ac vht20                                                                                                                                                                                                         | 5745                 | 17.80                | 18.18                        |
|                                                                                                                                                                                                                        | 5785                 | 17.84                | 18.18                        |
|                                                                                                                                                                                                                        | 5825                 | 17.88                | 18.22                        |
| 802.11ac vht40                                                                                                                                                                                                         | 5755                 | 36.48                | 36.28                        |
|                                                                                                                                                                                                                        | 5795                 | 36.48                | 36.28                        |
| 802.11ac vht80                                                                                                                                                                                                         | 5775                 | 76.80                | 75.76                        |
| Note: Test only was performed at ANT 1.<br>6dB Emission Bandwidth Limit: ≥0.5 MHz<br>The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz,<br>please refer to the test plots of 99% Occupied Bandwidth. |                      |                      |                              |

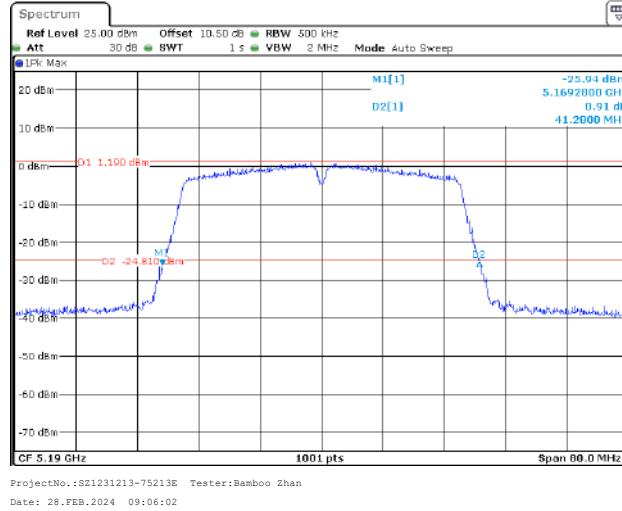
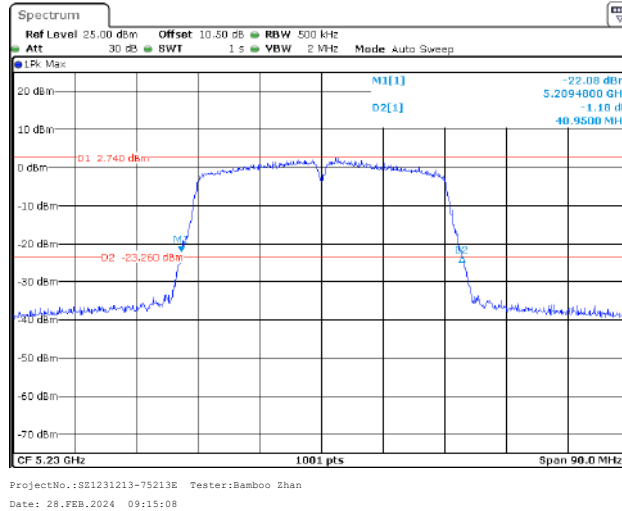
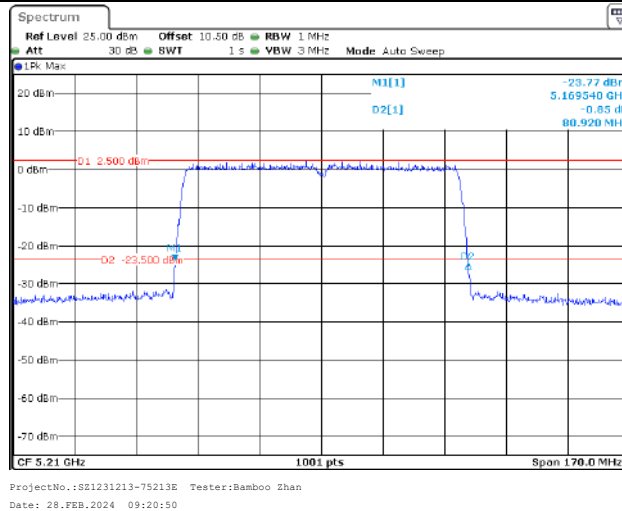
The test data of 802.11ax modes please refer to the Appendix.

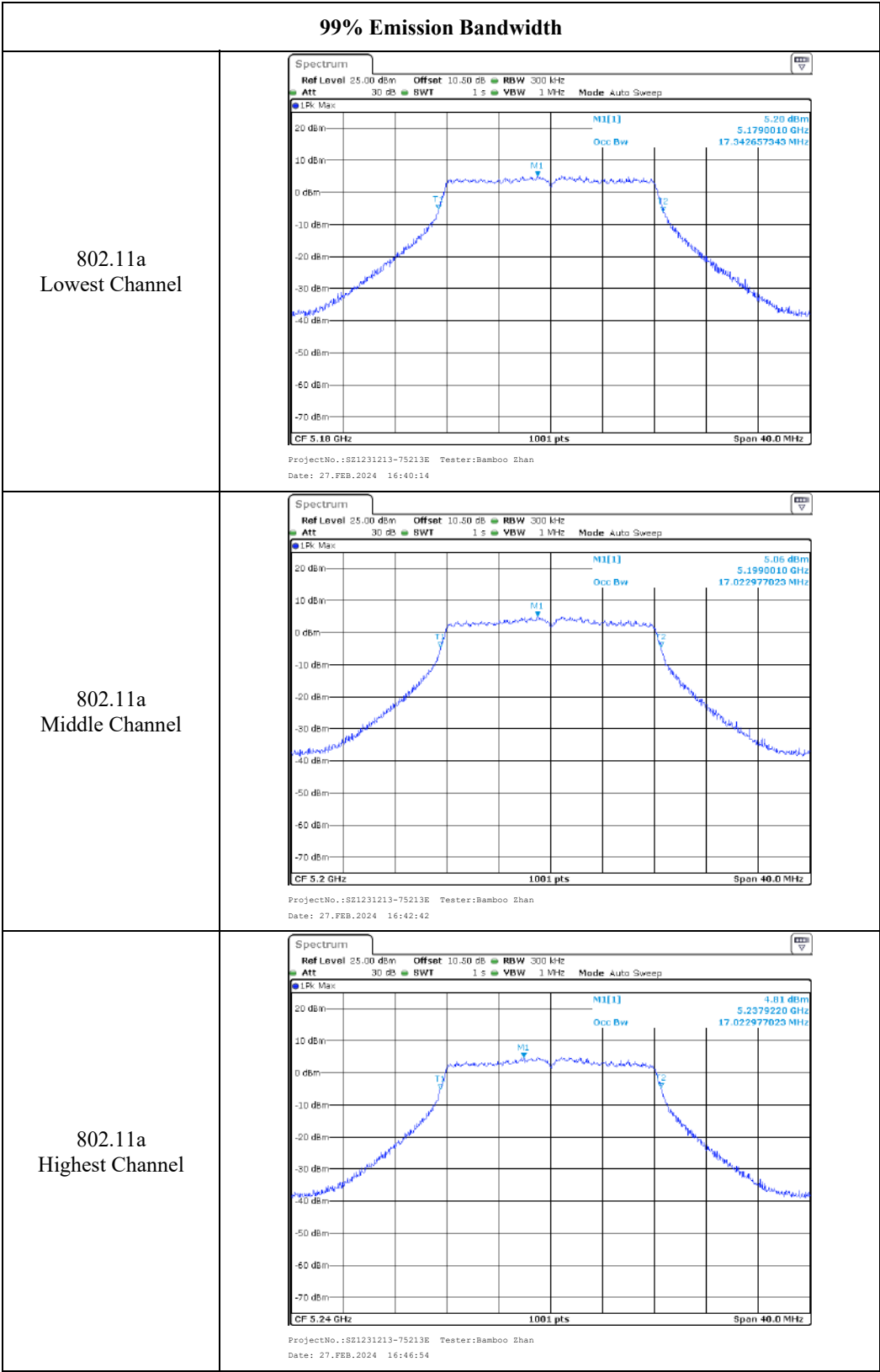
5150-5250MHz:  
ANT0

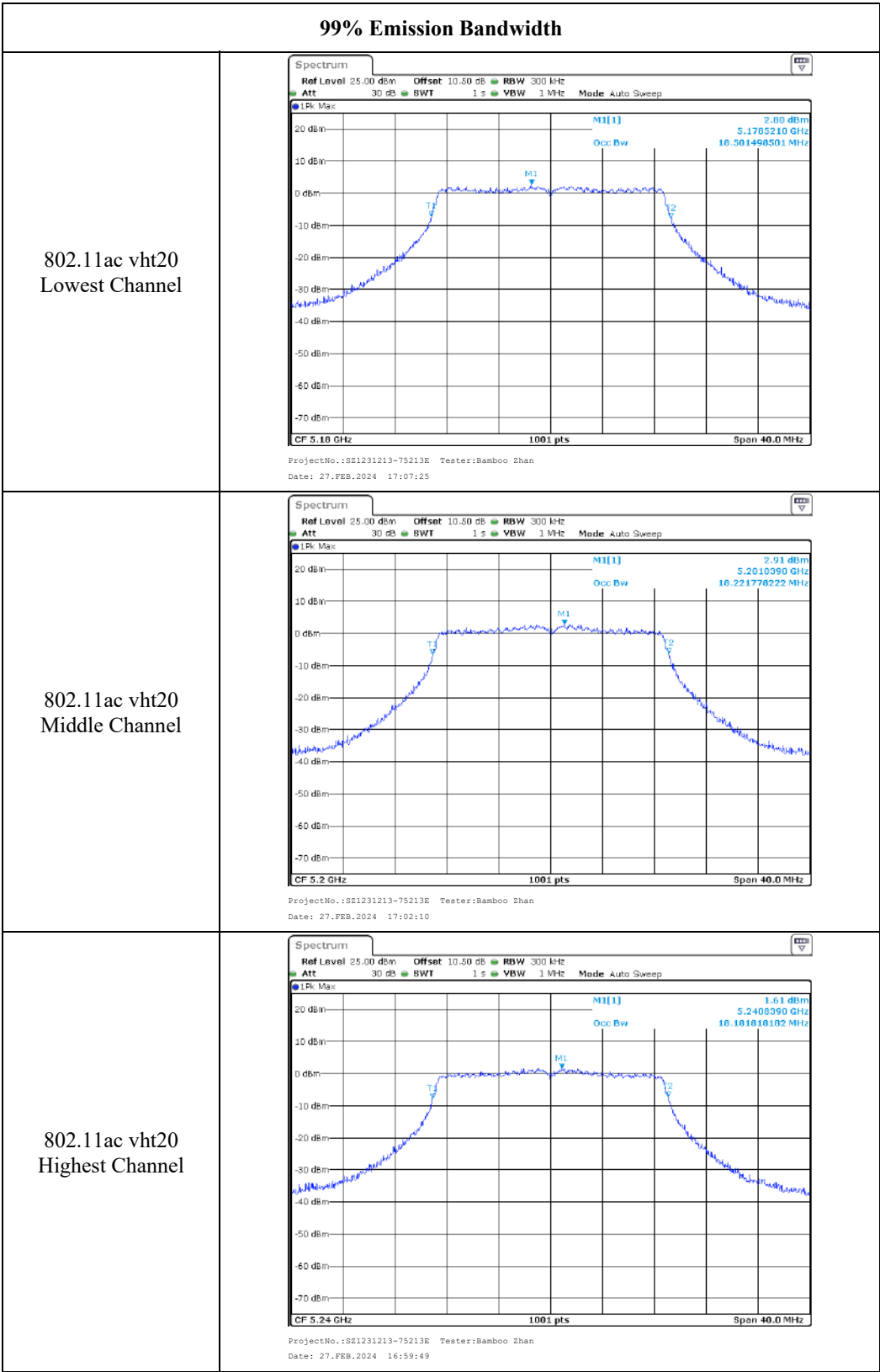


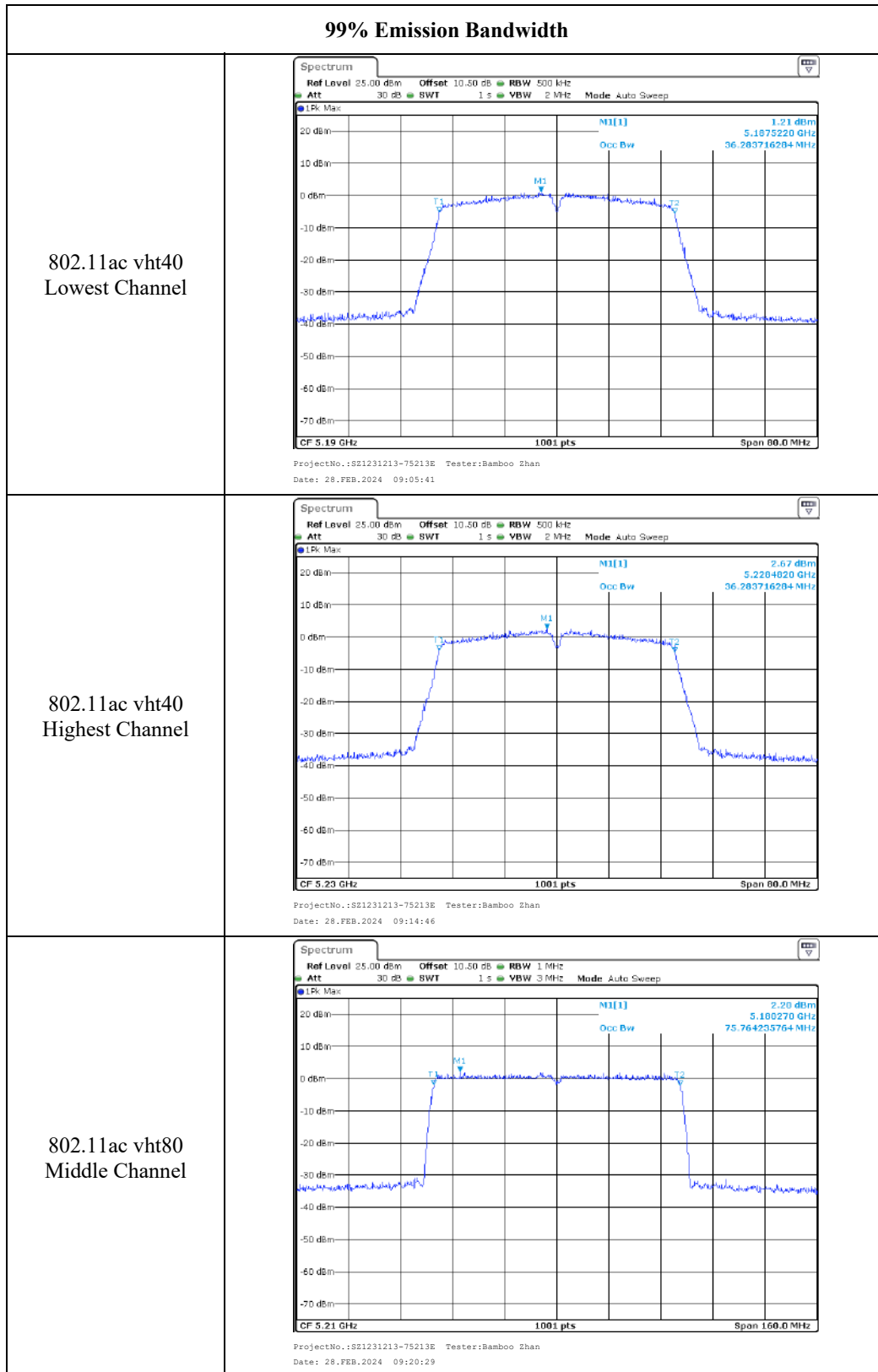


## 26dB Emission Bandwidth

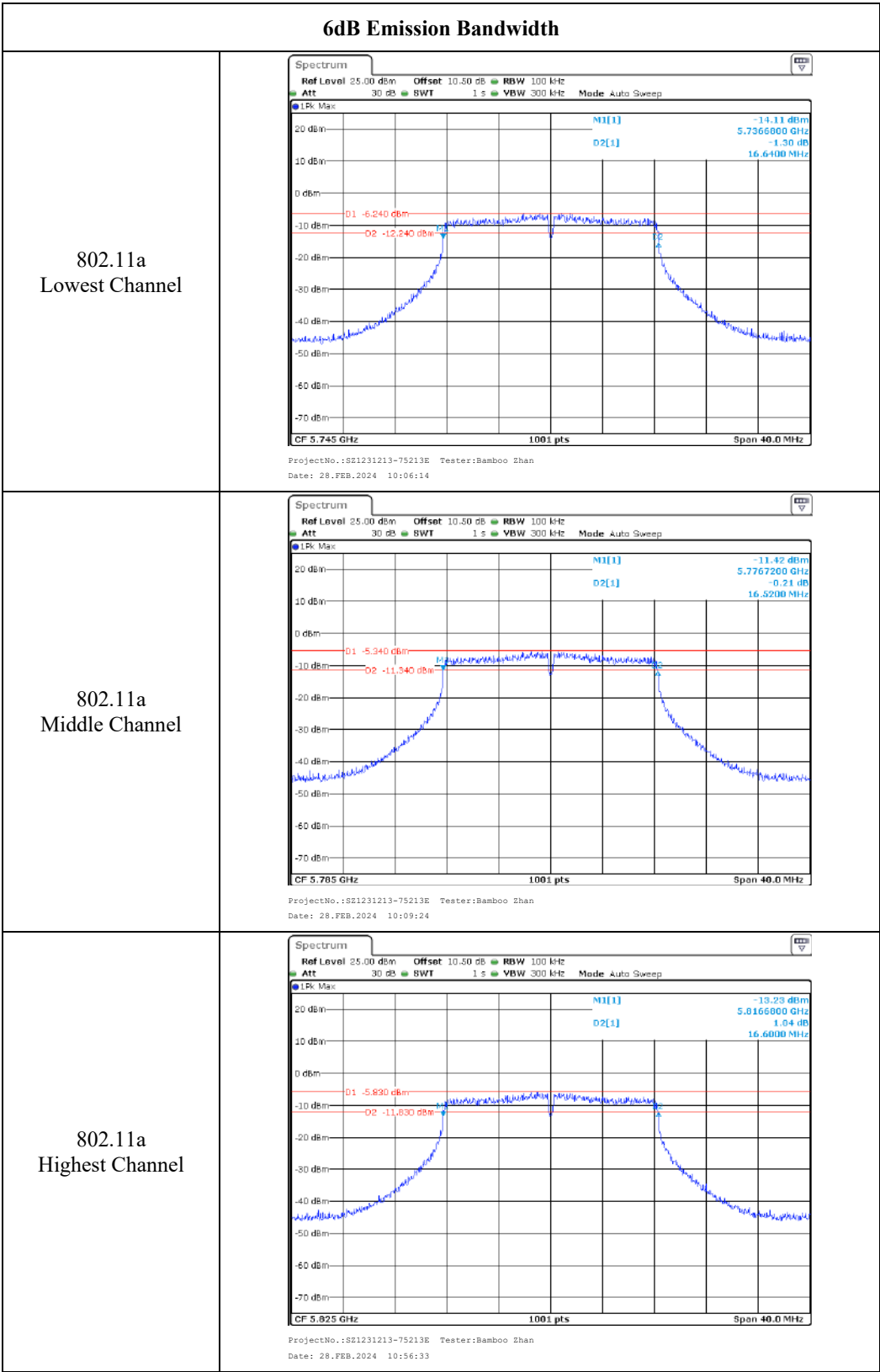
802.11ac vht40  
Lowest Channel802.11ac vht40  
Highest Channel802.11ac vht80  
Middle Channel

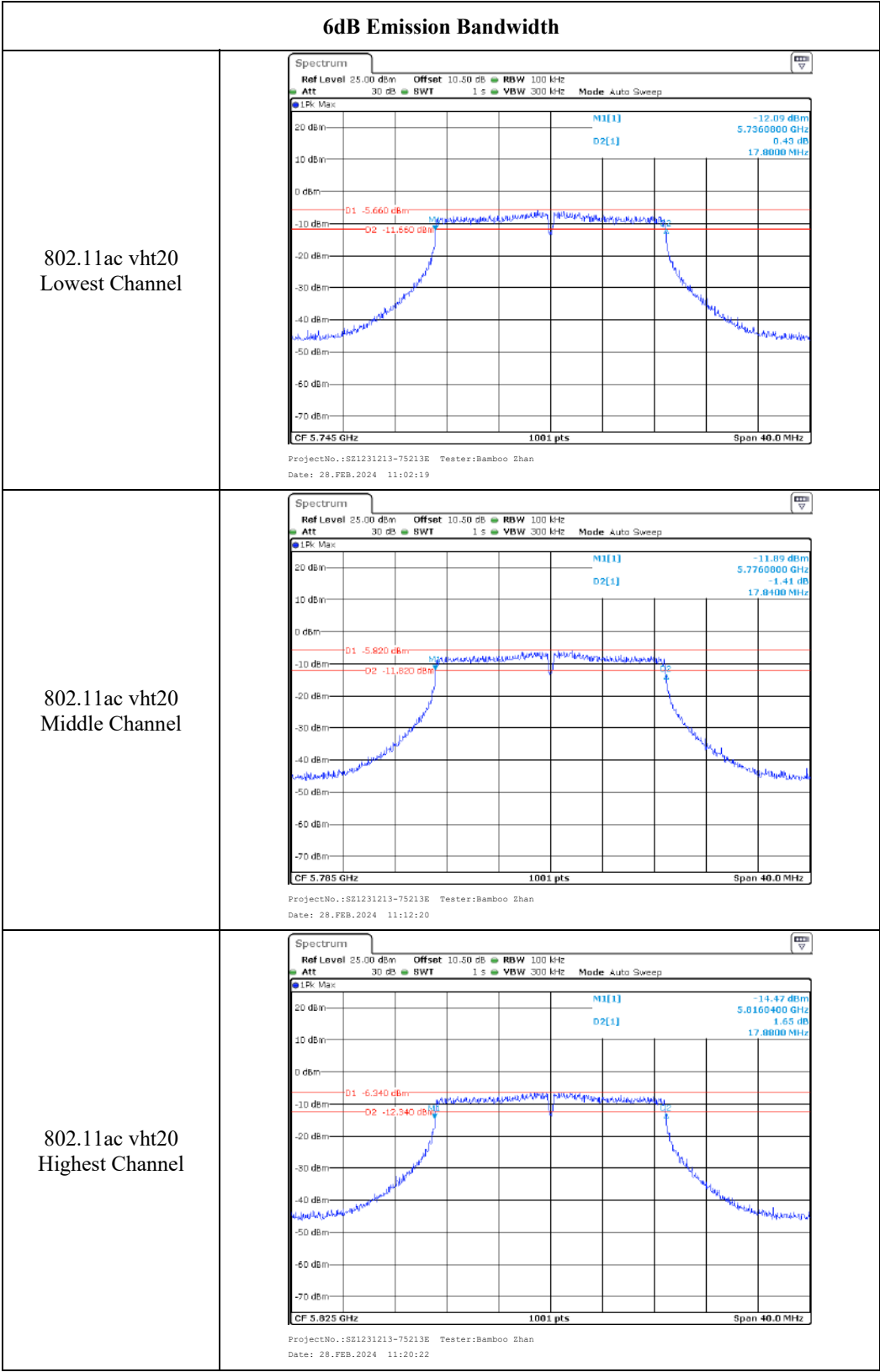


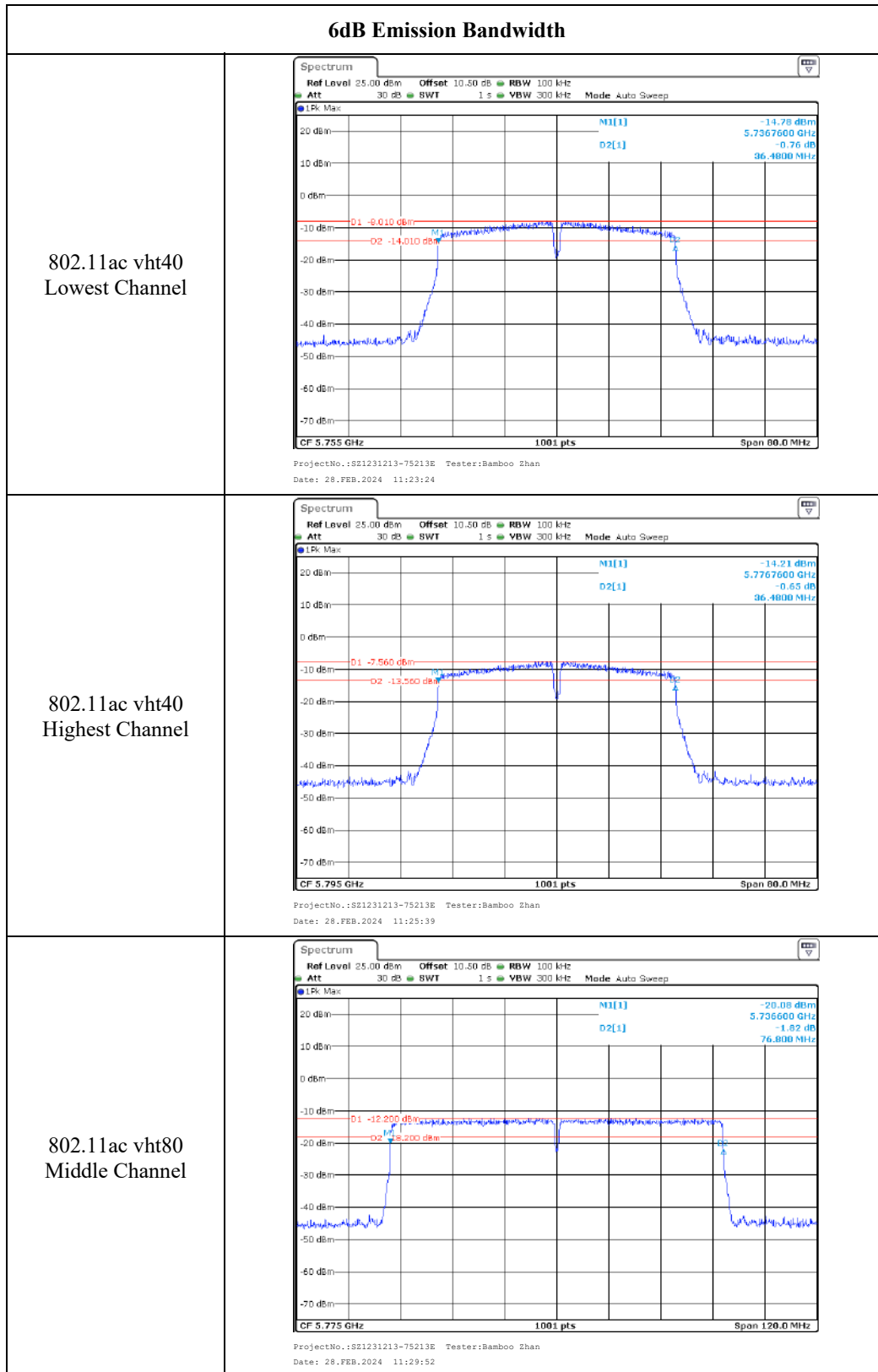


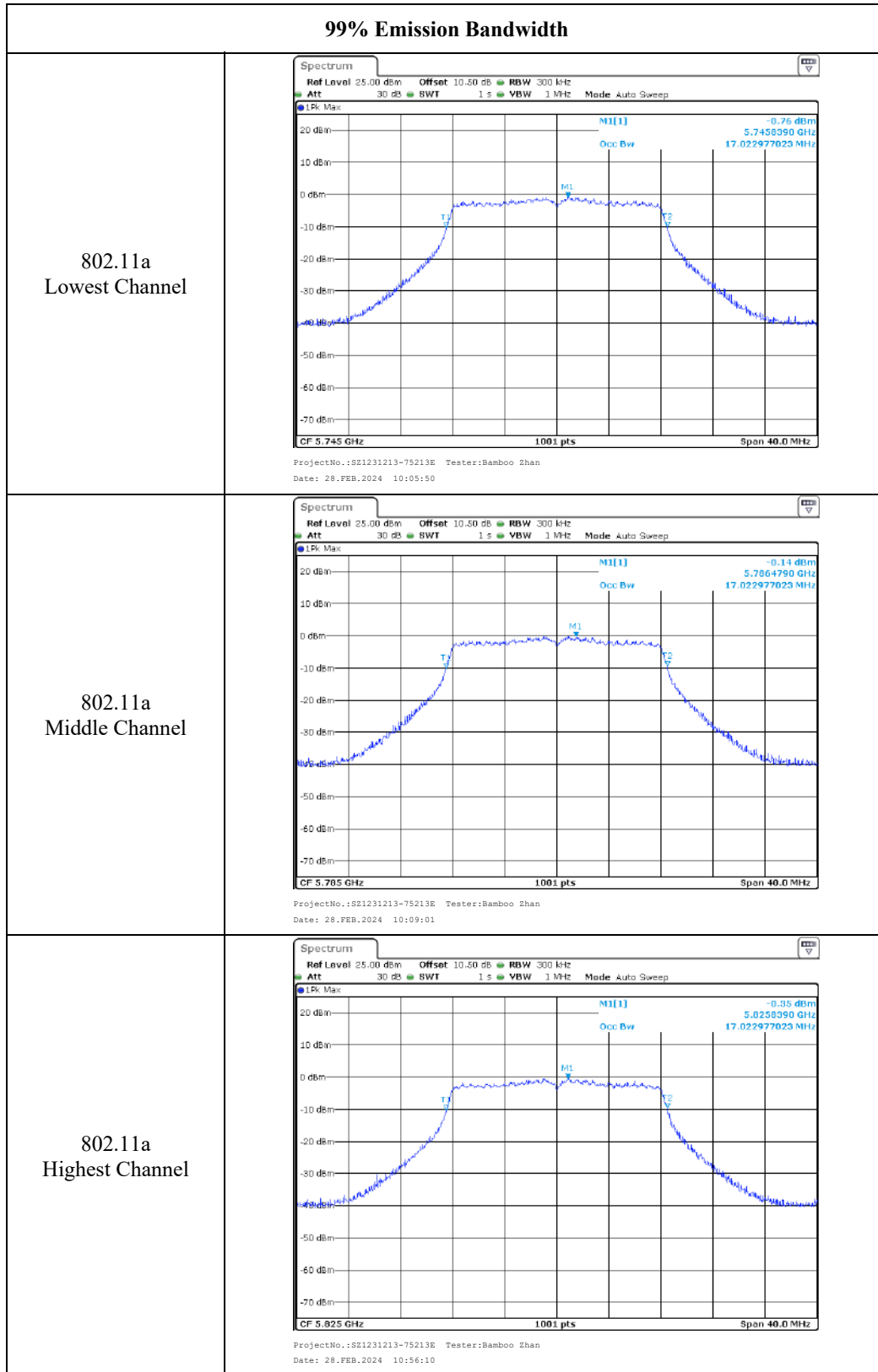


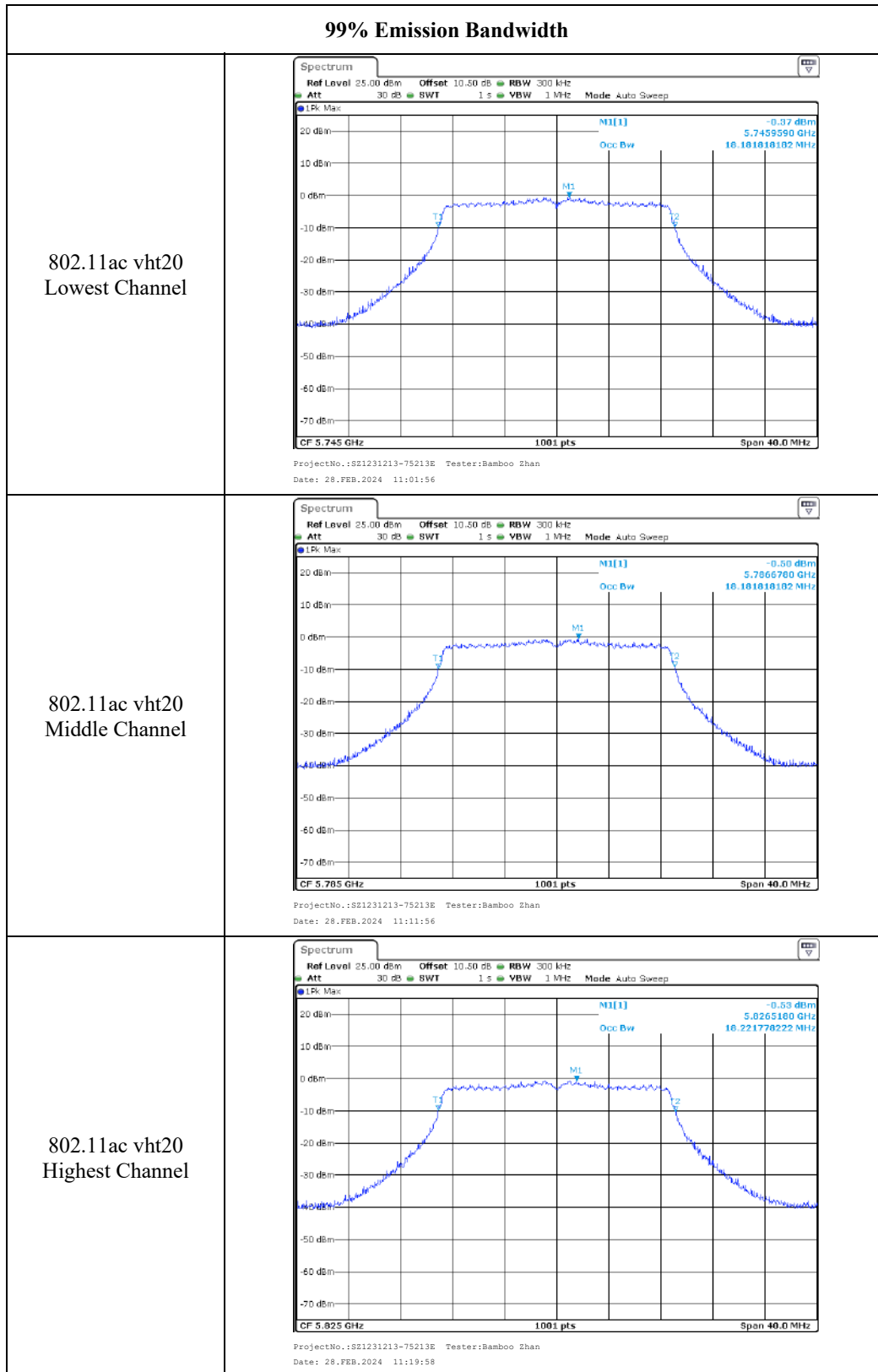
5725-5850MHz:  
ANT0

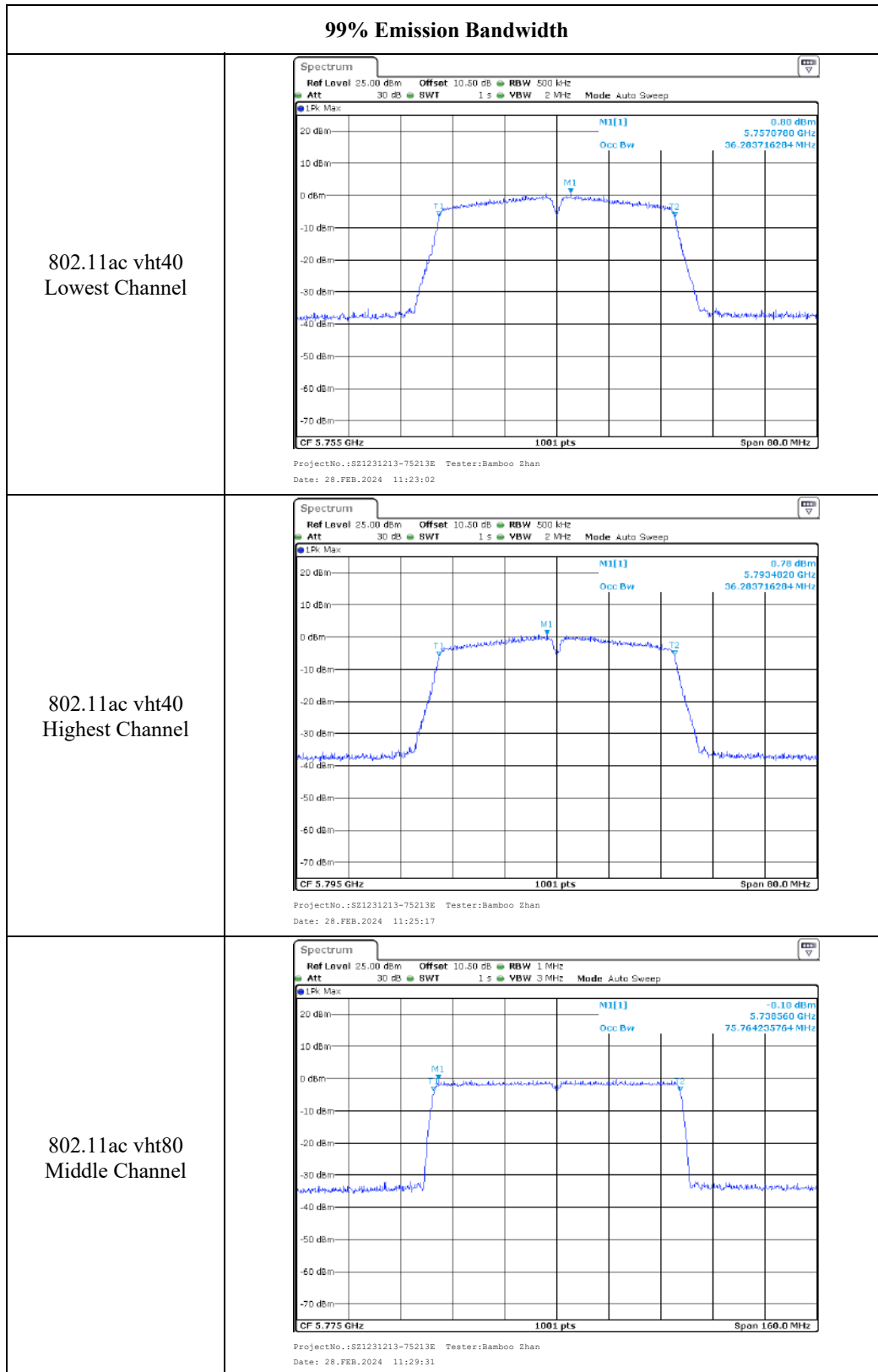












## FCC §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER

### Applicable Standard

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

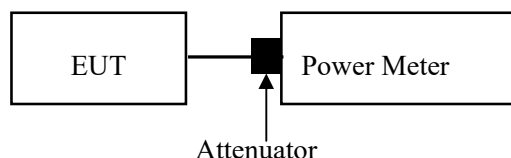
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

### Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method PM-G should be applied

- a. Place the EUT on a bench and set it in transmitting mode.
- b. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.



**Test Data**

**Environmental Conditions**

|                           |                 |
|---------------------------|-----------------|
| <b>Temperature:</b>       | 23~26 °C        |
| <b>Relative Humidity:</b> | 40~50 %         |
| <b>ATM Pressure:</b>      | 100.1~101.0 kPa |

*The testing was performed by Bamboo Zhan from 2024-02-27 to 2024-02-28 and Tom Liu from 2024-02-29 to 2024-03-01.*

*EUT operation mode: Transmitting*

**Test Result: Compliant.**

**5150-5250 MHz:**

| Test Modes                                                                                                                                                                                                                                                                                    | Test Frequency (MHz) | Max. Conducted Average Output Power (dBm) |                   |              |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------|-------------------|--------------|-------|
|                                                                                                                                                                                                                                                                                               |                      | ANT 1                                     | ANT 2             | Total        | Limit |
| 802.11a                                                                                                                                                                                                                                                                                       | 5180                 | 13.32                                     | 14.04             | /            | 23.98 |
|                                                                                                                                                                                                                                                                                               | 5200                 | 12.76                                     | 14.05             | /            | 23.98 |
|                                                                                                                                                                                                                                                                                               | 5240                 | 12.69                                     | 14.10             | /            | 23.98 |
| 802.11ac vht20                                                                                                                                                                                                                                                                                | 5180                 | 10.93                                     | 11.52             | 14.25        | 23.98 |
|                                                                                                                                                                                                                                                                                               | 5200                 | 10.86                                     | 11.66             | <b>14.29</b> | 23.98 |
|                                                                                                                                                                                                                                                                                               | 5240                 | 10.56                                     | 11.78             | 14.22        | 23.98 |
| 802.11ac vht40                                                                                                                                                                                                                                                                                | 5190                 | 10.55                                     | 11.41             | 14.01        | 23.98 |
|                                                                                                                                                                                                                                                                                               | 5230                 | 10.43                                     | 11.61             | 14.07        | 23.98 |
| 802.11ac vht80                                                                                                                                                                                                                                                                                | 5210                 | 10.35                                     | 11.35             | 13.89        | 23.98 |
| Note:<br>The device is a client unit.<br>The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:<br>Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$ |                      |                                           |                   |              |       |
| Antenna Gain:                                                                                                                                                                                                                                                                                 | -1.64                | dB                                        | Directional gain: | -1.64        | dB    |

**5725-5850 MHz:**

| Test Modes                                                                                                                                                                                                                                                 | Test Frequency (MHz) | Max. Conducted Average Output Power (dBm) |                   |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------|-------------------|-------|-------|
|                                                                                                                                                                                                                                                            |                      | ANT 1                                     | ANT 2             | Total | Limit |
| 802.11a                                                                                                                                                                                                                                                    | 5745                 | 7.08                                      | 15.95             | /     | 30    |
|                                                                                                                                                                                                                                                            | 5785                 | 7.68                                      | 16.33             | /     | 30    |
|                                                                                                                                                                                                                                                            | 5825                 | 7.41                                      | <b>16.81</b>      | /     | 30    |
| 802.11ac vht20                                                                                                                                                                                                                                             | 5745                 | 7.56                                      | 7.78              | 10.68 | 30    |
|                                                                                                                                                                                                                                                            | 5785                 | 7.54                                      | 8.26              | 10.93 | 30    |
|                                                                                                                                                                                                                                                            | 5825                 | 7.46                                      | 8.92              | 11.26 | 30    |
| 802.11ac vht40                                                                                                                                                                                                                                             | 5755                 | 8.42                                      | 8.75              | 11.60 | 30    |
|                                                                                                                                                                                                                                                            | 5795                 | 8.74                                      | 9.28              | 12.03 | 30    |
| 802.11ac vht80                                                                                                                                                                                                                                             | 5775                 | 8.48                                      | 8.43              | 11.47 | 30    |
| Note: The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:<br>Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$ |                      |                                           |                   |       |       |
| Antenna Gain:                                                                                                                                                                                                                                              | -1.64                | dBi                                       | Directional gain: | -1.64 | dBi   |

The test data of 802.11ax modes please refer to the Appendix.

## FCC §15.407(a) - POWER SPECTRAL DENSITY

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

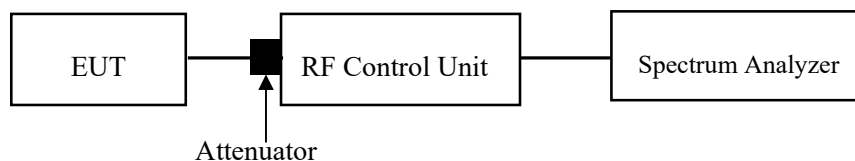
For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

### Test Procedure

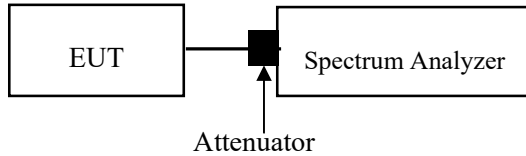
According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied

- Set span to encompass the entire EBW(or, alternatively, the entire 99% occupied Bandwidth) of the signal.
- Set sweep trigger to “free run.”
- Set RBW=1MHz or 500kHz Set VBW>3 MHz or 2MHz.
- Number of points in sweep>2 x span/RBW.(This ensures that bin-to-bin spacing is <RBW/2. so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- Trace mode = max hold.
- Do not use sweep triggering. Allow the sweep to “free run.”
- Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
- Add  $10 \log (1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).

For 802.11ax Mode:



For other Modes:



## Test Data

### Environmental Conditions

|                    |                 |
|--------------------|-----------------|
| Temperature:       | 23~26 °C        |
| Relative Humidity: | 40~50 %         |
| ATM Pressure:      | 100.1~101.0 kPa |

The testing was performed by Bamboo Zhan from 2024-02-27 to 2024-02-28 and Tom Liu from 2024-02-29 to 2024-03-01.

EUT operation mode: Transmitting

**Test Result: Compliant.**

### 5150-5250 MHz:

| Test Modes     | Test Frequency (MHz) | Maximum Power Spectral Density (dBm/MHz) |       |       |       |
|----------------|----------------------|------------------------------------------|-------|-------|-------|
|                |                      | ANT 1                                    | ANT 2 | Total | Limit |
| 802.11a        | 5180                 | 2.27                                     | 3.12  | /     | 11    |
|                | 5200                 | 1.91                                     | 3.14  | /     | 11    |
|                | 5240                 | 1.88                                     | 3.16  | /     | 11    |
| 802.11ac vht20 | 5180                 | -0.50                                    | 0.22  | 2.89  | 11    |
|                | 5200                 | -0.76                                    | 0.37  | 2.85  | 11    |
|                | 5240                 | -1.03                                    | 0.59  | 2.87  | 11    |
| 802.11ac vht40 | 5190                 | -2.28                                    | -1.73 | 1.01  | 11    |
|                | 5230                 | -2.36                                    | -1.50 | 1.10  | 11    |
| 802.11ac vht80 | 5210                 | -6.86                                    | -5.95 | -3.37 | 11    |

Note:

The device is a client unit.

Method SA-1 in KDB 789033 D02 General UNII Test Procedures New Rules v02r01 was used for PSD test, and the duty cycle factor was added into the result.

The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain =  $10 \log(N_{\text{ANT}}/N_{\text{SS}})$  dB

|               |       |     |                   |      |     |
|---------------|-------|-----|-------------------|------|-----|
| Antenna Gain: | -1.64 | dBi | Directional gain: | 1.36 | dBi |
|---------------|-------|-----|-------------------|------|-----|

**5725-5850 MHz:**

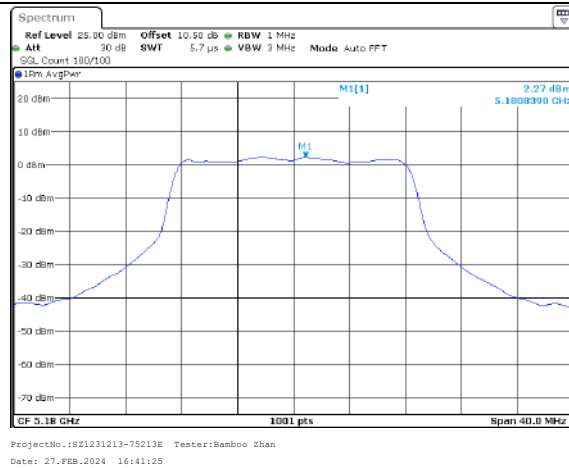
| Test Modes                                                                                                                                                                                                                                                                                                                                                                                                                         | Test Frequency (MHz) | Maximum Power Spectral Density (dBm/MHz) |                   |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------|-------------------|-------|-------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      | ANT 1                                    | ANT 2             | Total | Limit |
| 802.11a                                                                                                                                                                                                                                                                                                                                                                                                                            | 5745                 | -6.63                                    | 2.73              | /     | 30    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5785                 | -6.10                                    | 3.04              | /     | 30    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5825                 | -6.35                                    | 3.13              | /     | 30    |
| 802.11ac vht20                                                                                                                                                                                                                                                                                                                                                                                                                     | 5745                 | -6.22                                    | -6.41             | -3.30 | 30    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5785                 | -6.29                                    | -4.96             | -2.56 | 30    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5825                 | -6.30                                    | -4.94             | -2.56 | 30    |
| 802.11ac vht40                                                                                                                                                                                                                                                                                                                                                                                                                     | 5755                 | -7.69                                    | -7.30             | -4.48 | 30    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5795                 | -7.38                                    | -6.88             | -4.11 | 30    |
| 802.11ac vht80                                                                                                                                                                                                                                                                                                                                                                                                                     | 5775                 | -11.49                                   | -11.62            | -8.54 | 30    |
| Note:<br>Method SA-1 in KDB 789033 D02 General UNII Test Procedures New Rules v02r01 was used for PSD test, and the duty cycle factor was added into the result.<br>The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:<br>Array Gain = $10 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB |                      |                                          |                   |       |       |
| Antenna Gain:                                                                                                                                                                                                                                                                                                                                                                                                                      | -1.64                | dBi                                      | Directional gain: | 1.36  | dBi   |

The test data of 802.11ax modes please refer to the Appendix.

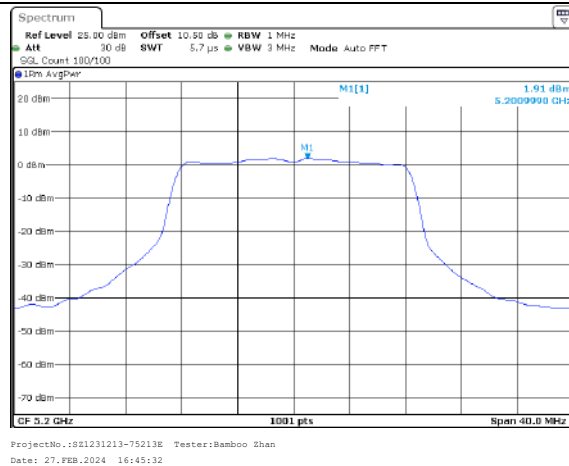
**ANT 1**

### Maximum power spectral density

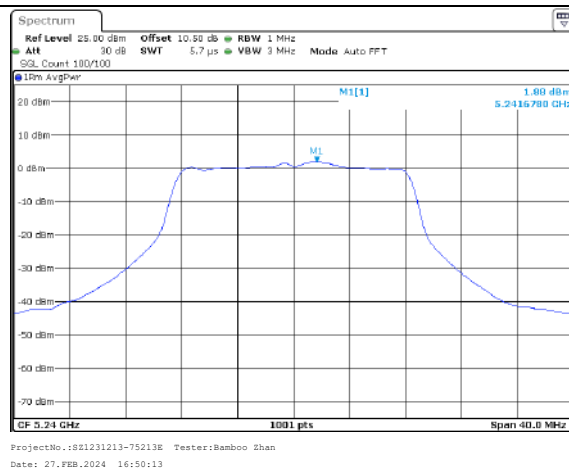
802.11a  
Lowest Channel

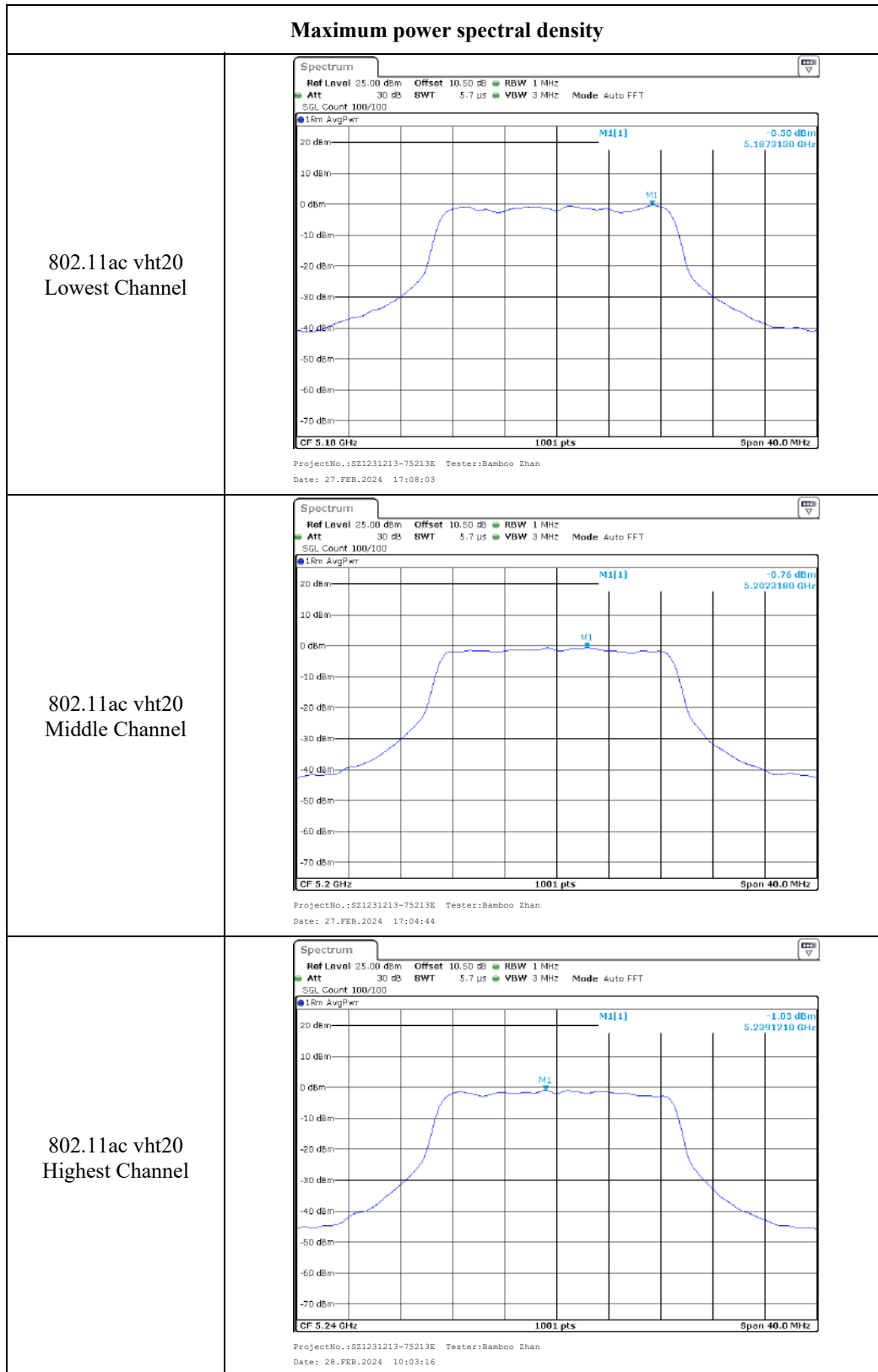


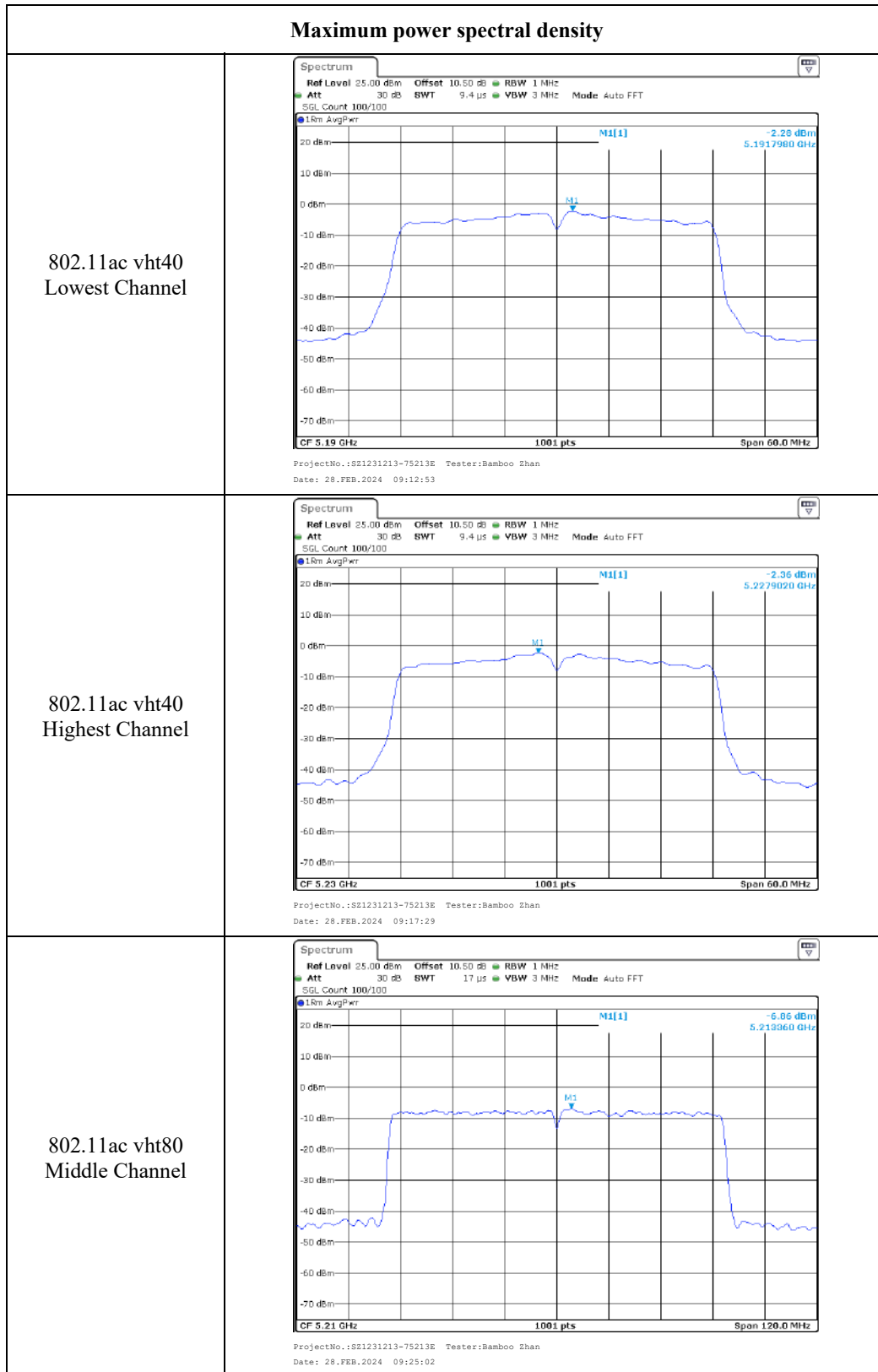
802.11a  
Middle Channel



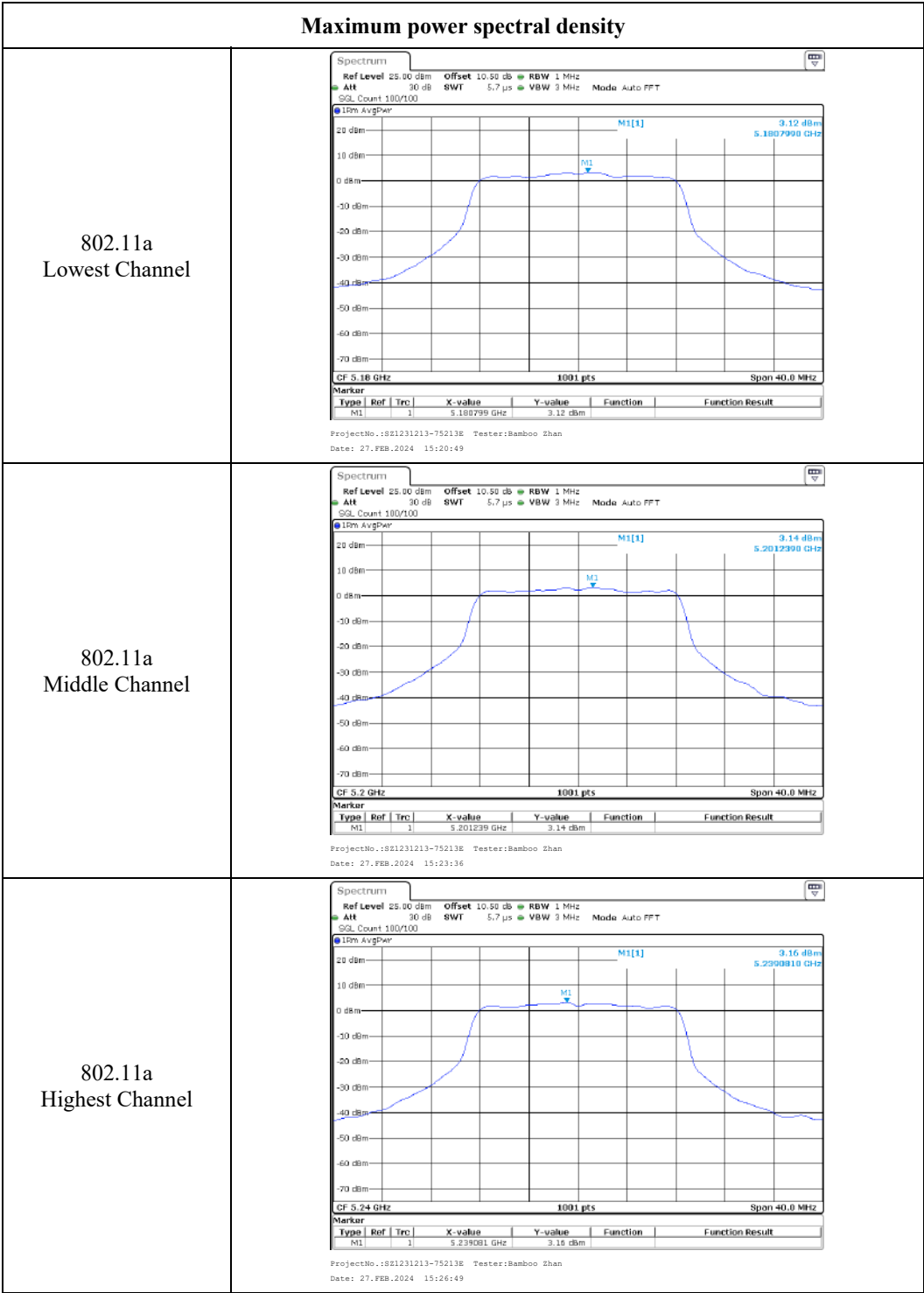
802.11a  
Highest Channel



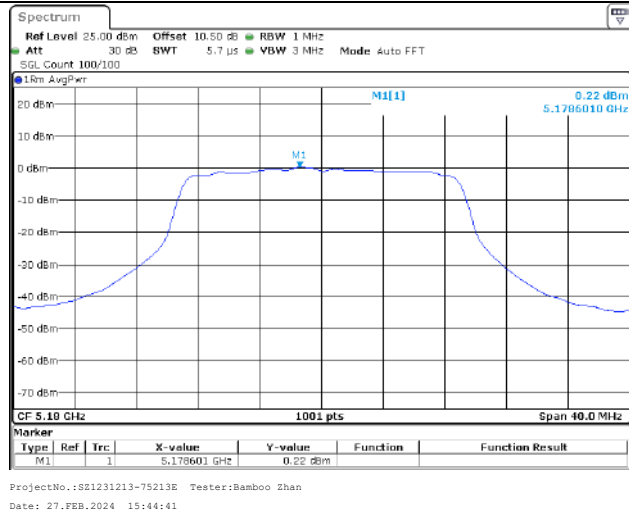
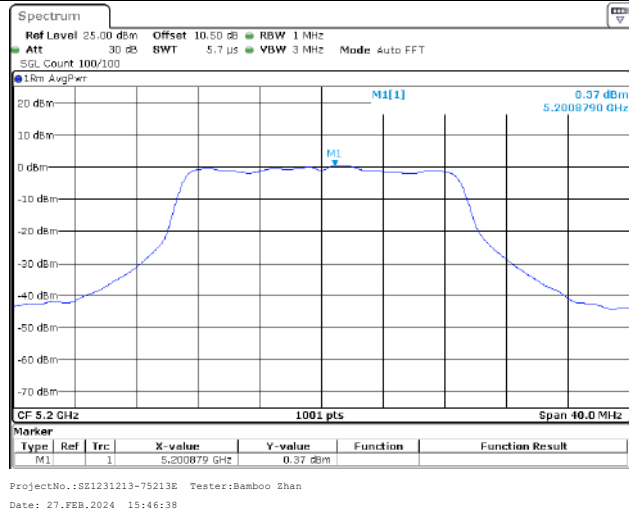
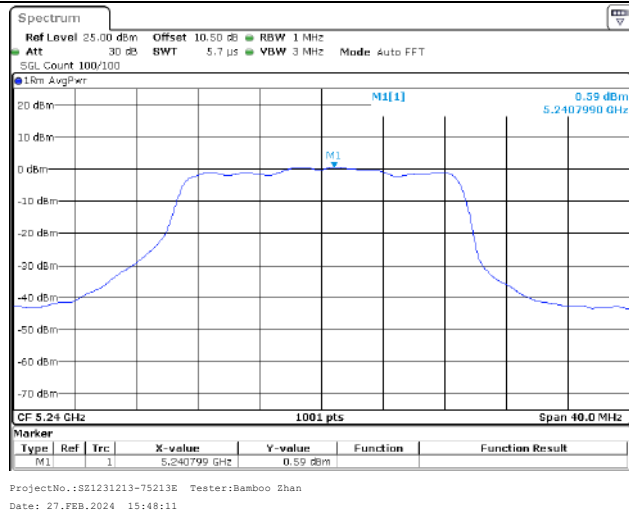




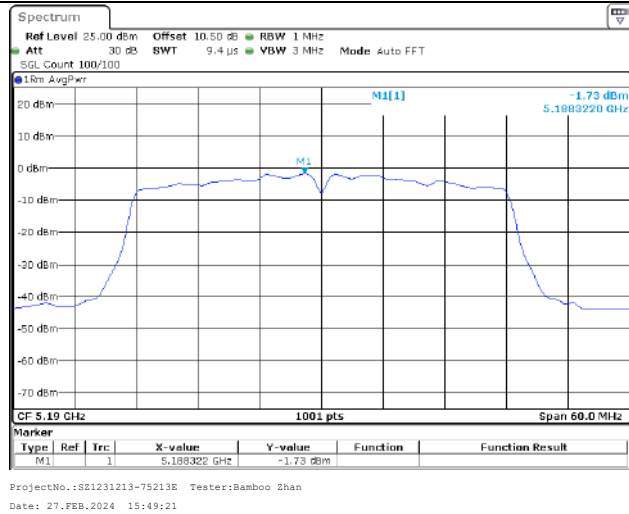
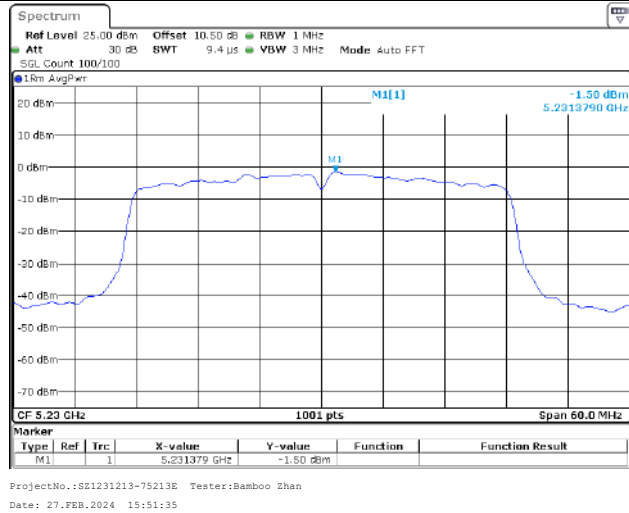
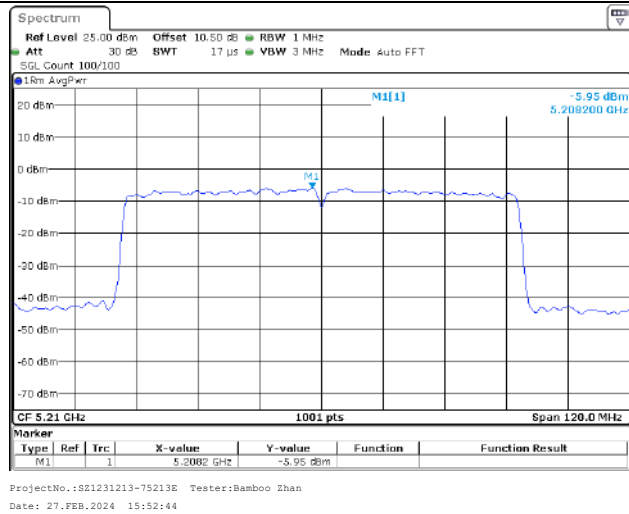
ANT 2



## Maximum power spectral density

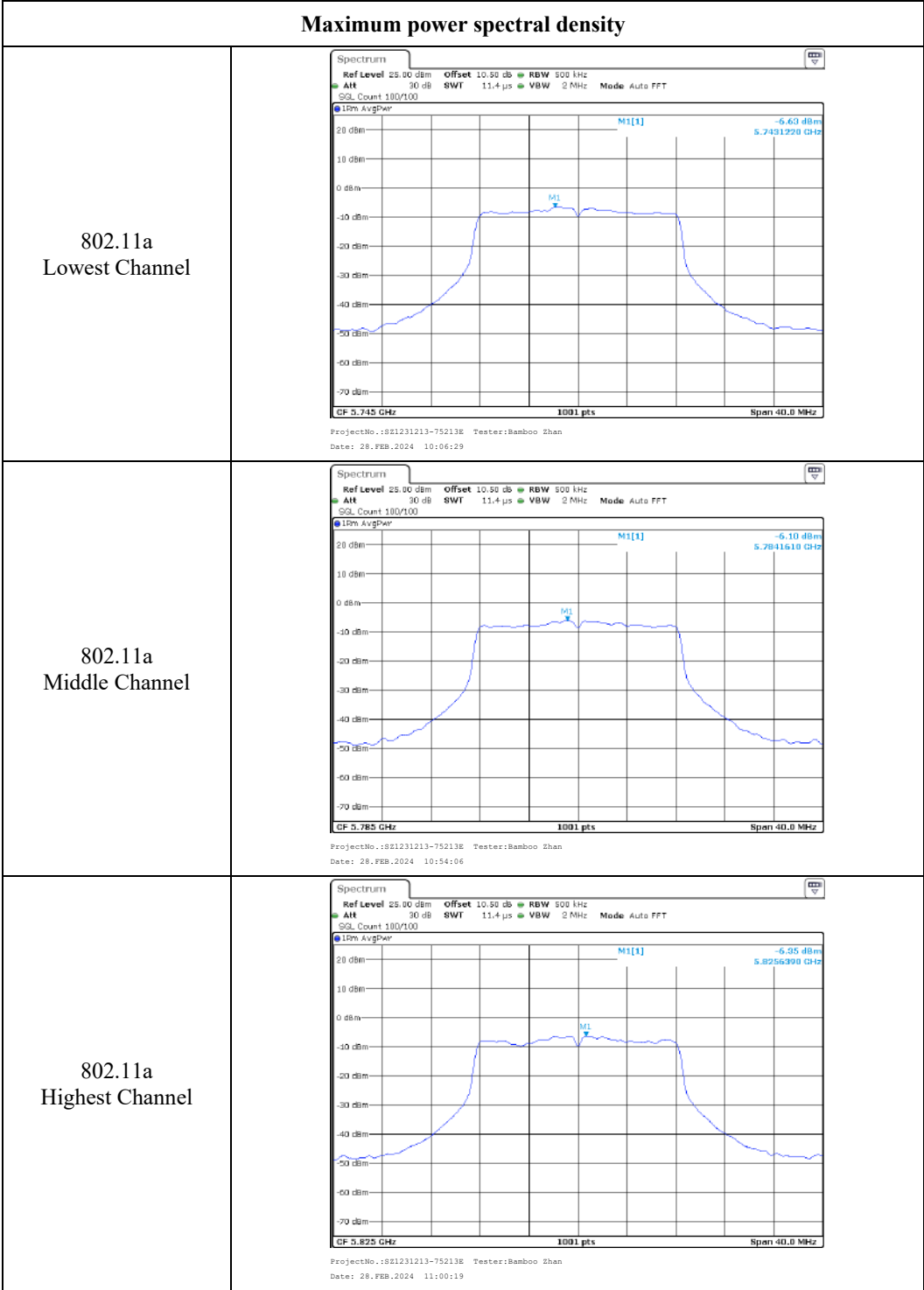
802.11ac vht20  
Lowest Channel802.11ac vht20  
Middle Channel802.11ac vht20  
Highest Channel

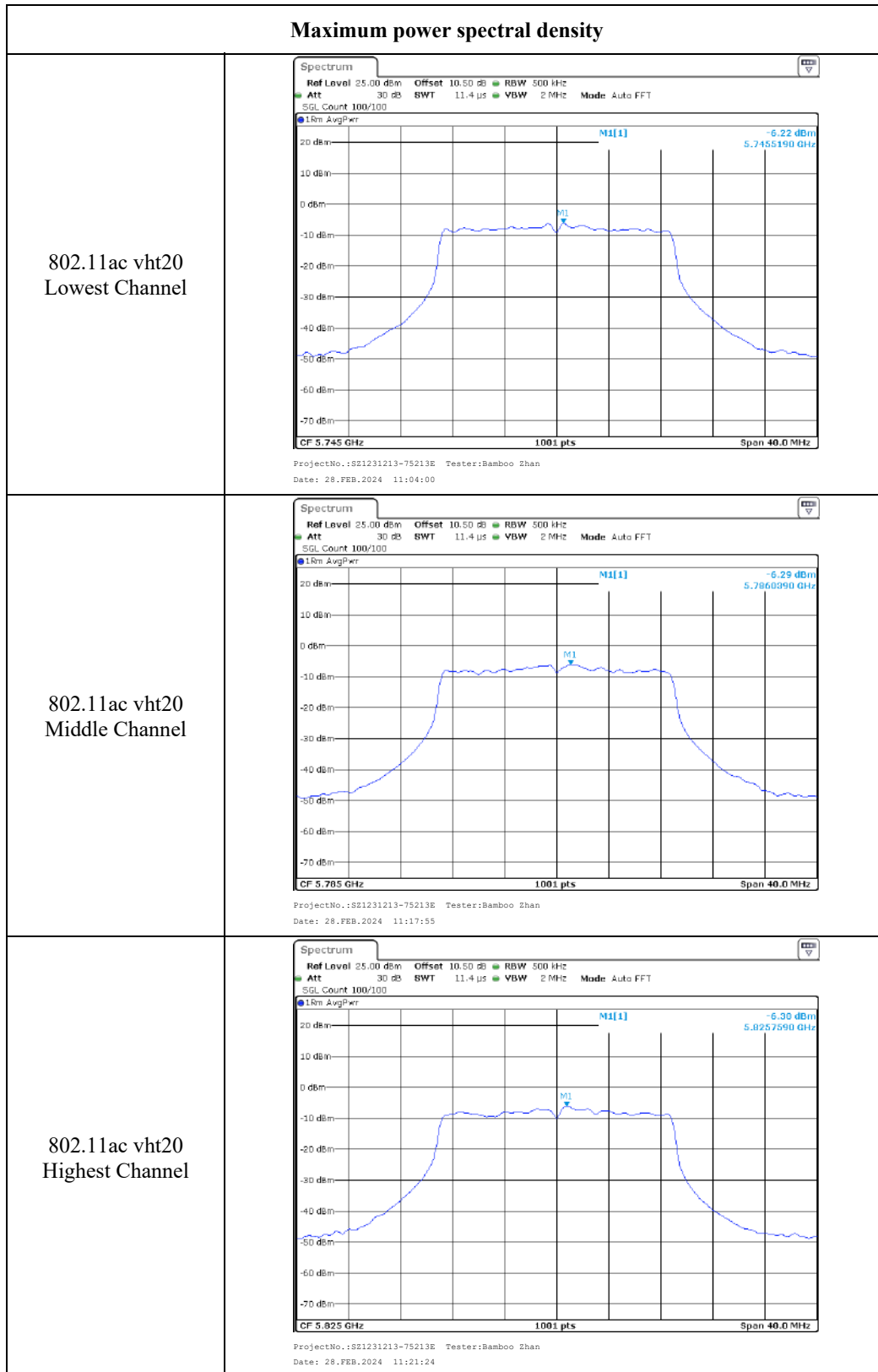
## Maximum power spectral density

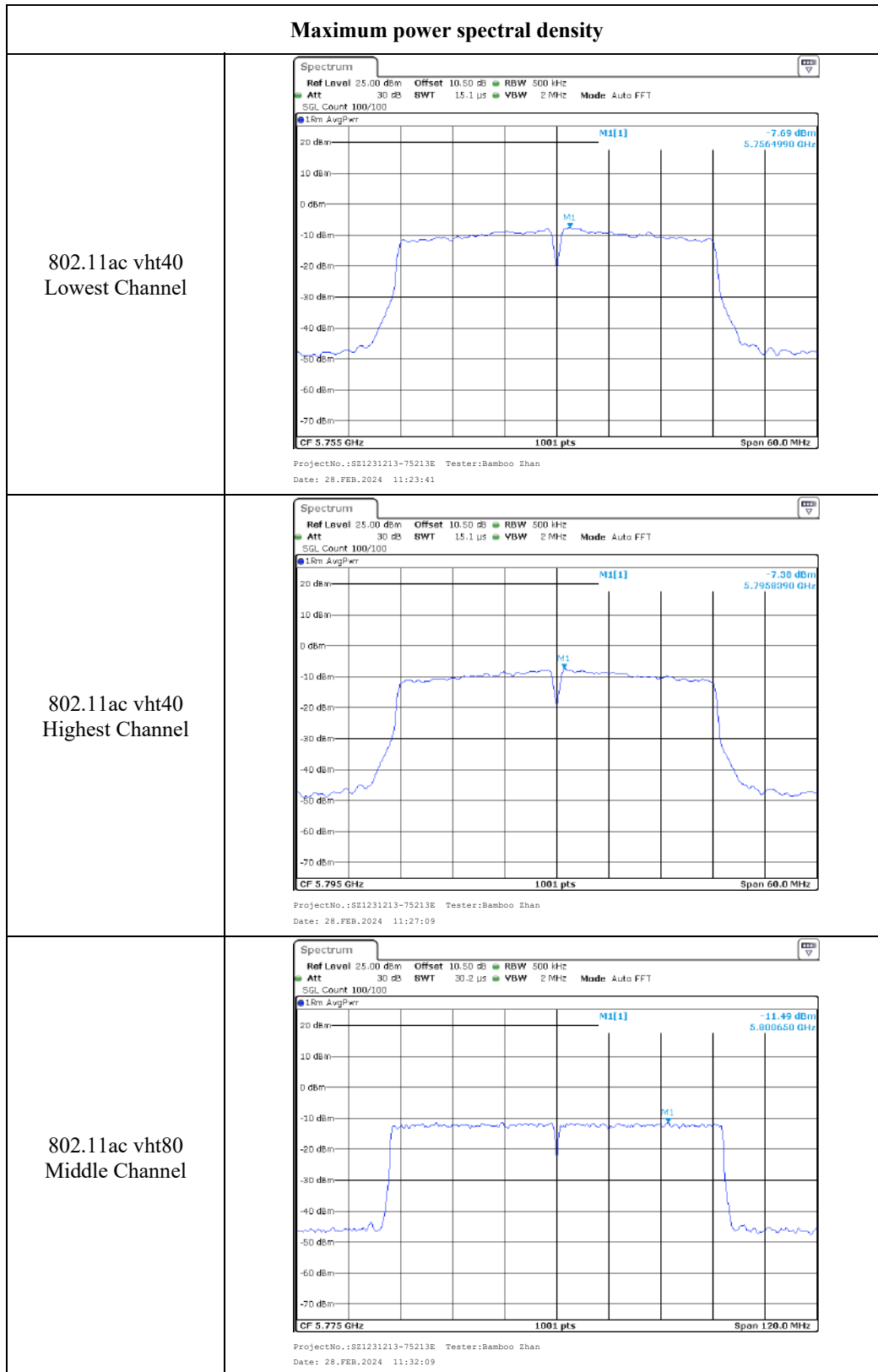
802.11ac vht40  
Lowest Channel802.11ac vht40  
Highest Channel802.11ac vht80  
Middle Channel

5725-5850MHz:

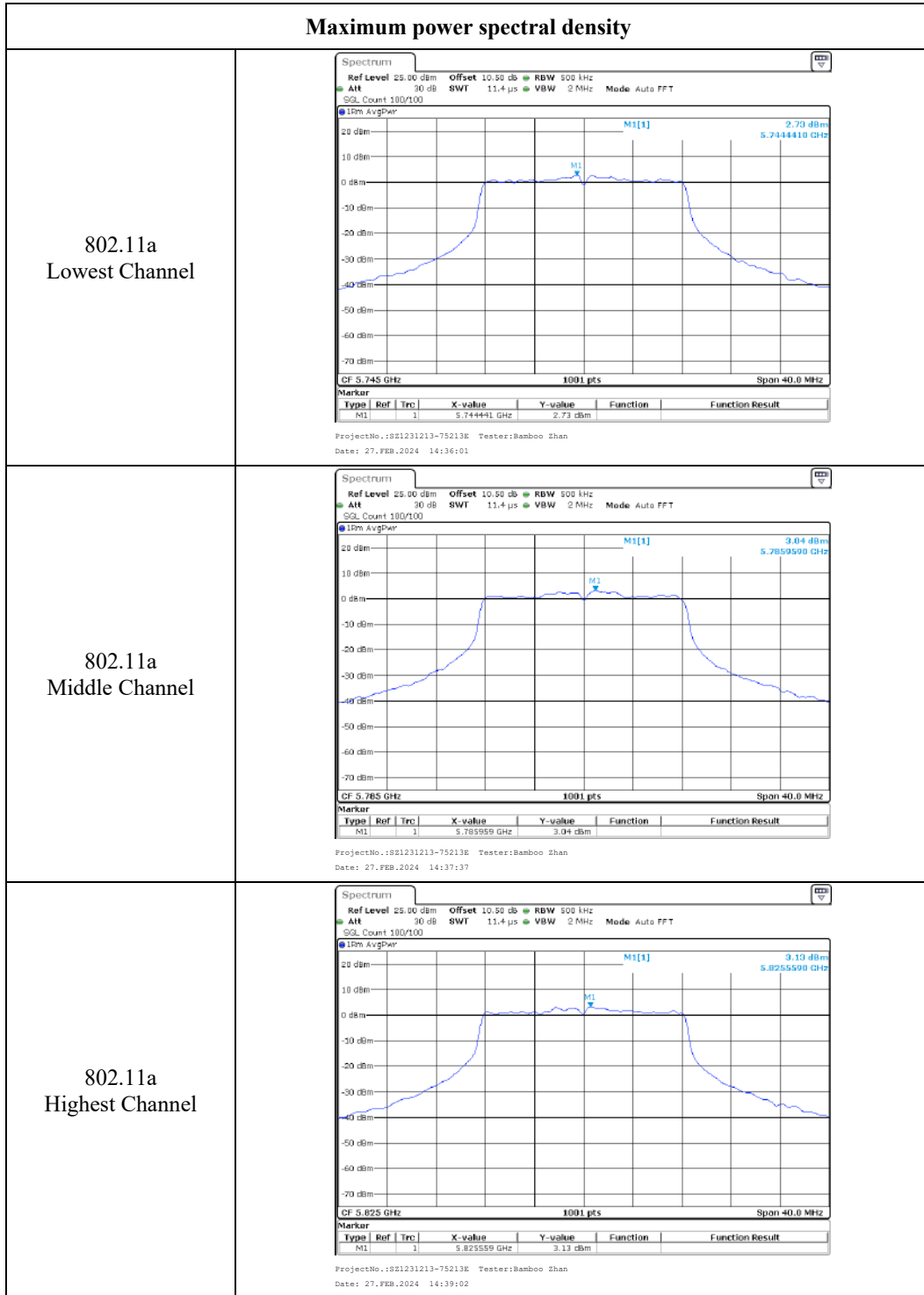
ANT1



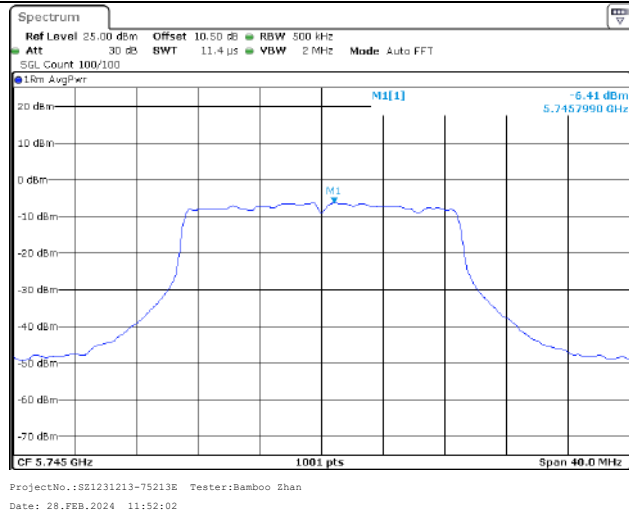
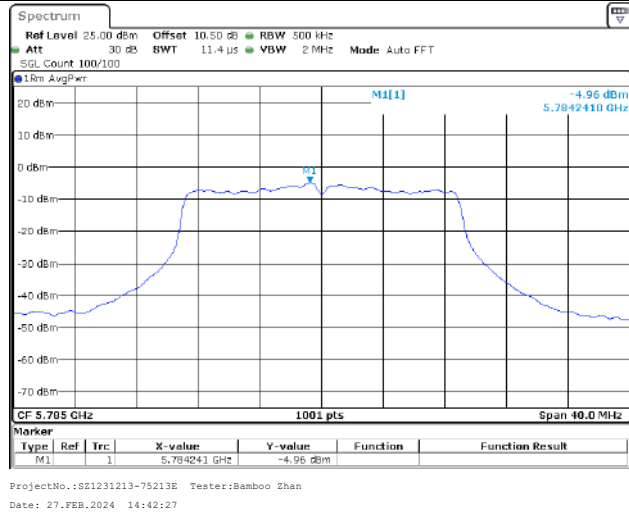
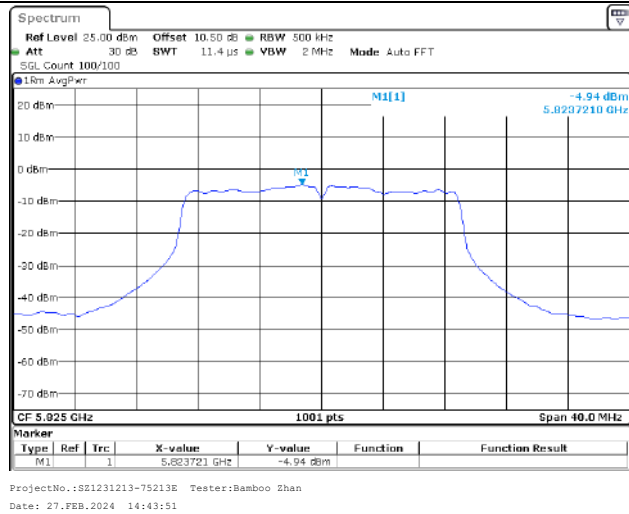




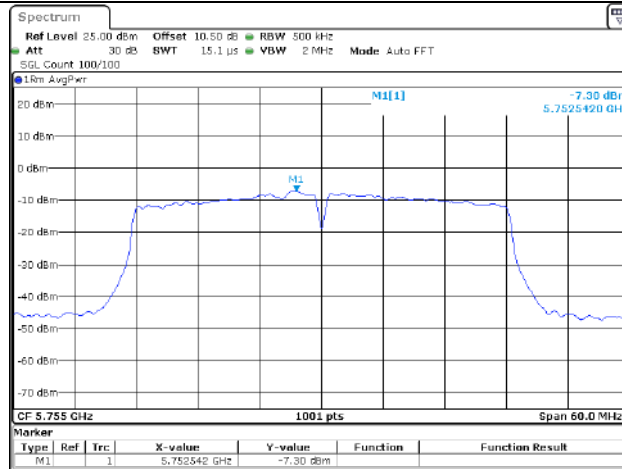
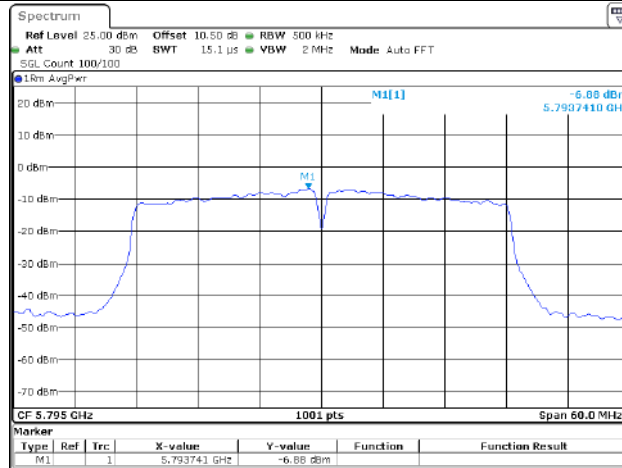
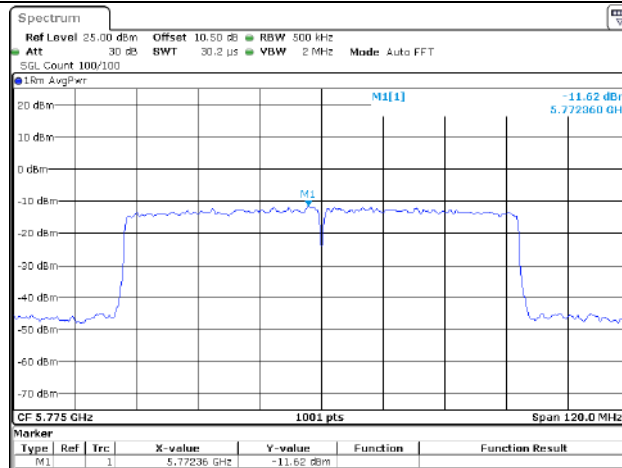
ANT2



## Maximum power spectral density

802.11ac vht20  
Lowest Channel802.11ac vht20  
Middle Channel802.11ac vht20  
Highest Channel

## Maximum power spectral density

802.11ac vht40  
Lowest Channel802.11ac vht40  
Highest Channel802.11ac vht80  
Middle Channel

## **EUT PHOTOGRAPHS**

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Please refer to the attachment SZ1231213-75213E-RF External photo and SZ1231213-75213E-RF Internal photo.

## **TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment SZ1231213-75213E-RF Test Setup photo.

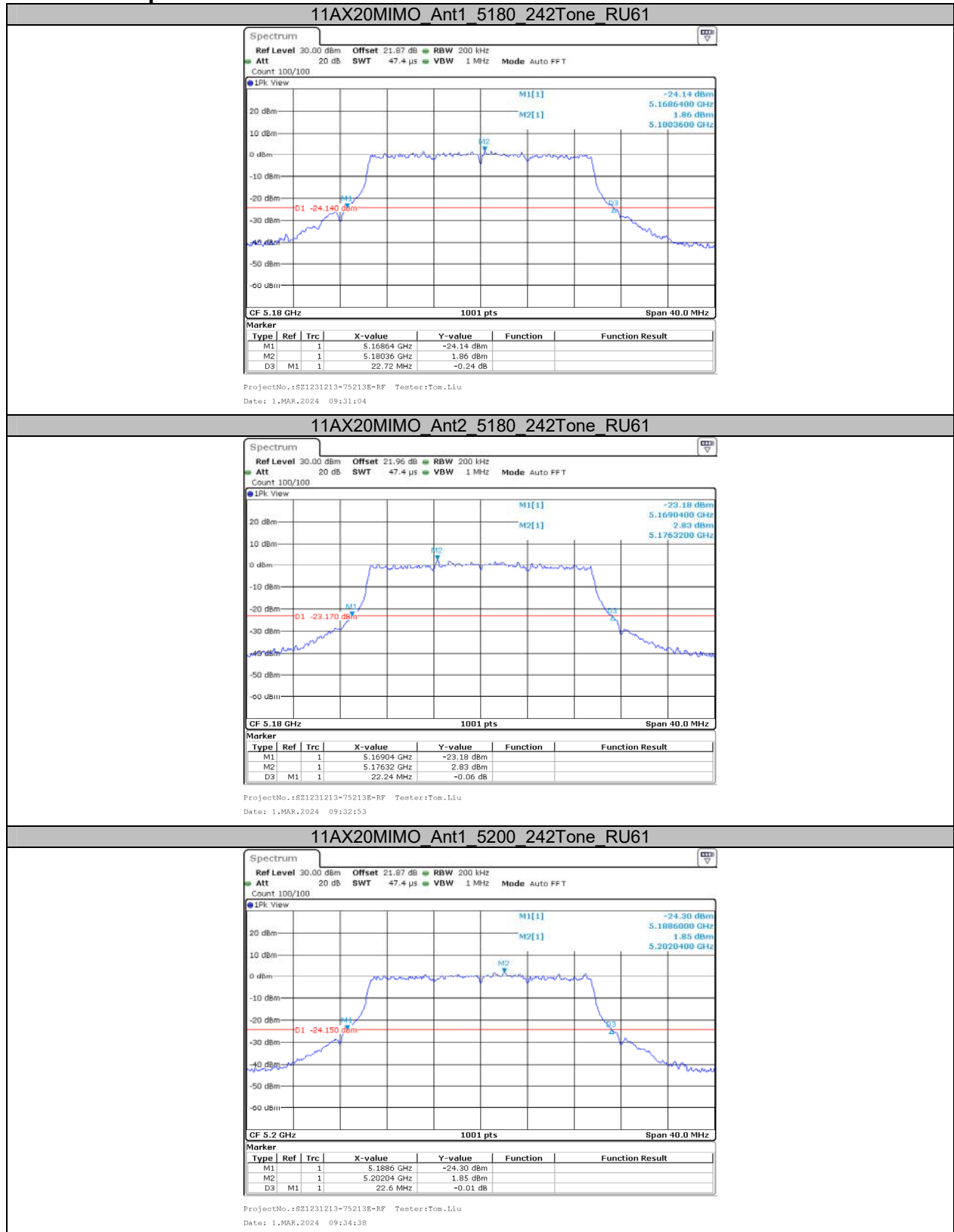
APPENDIX

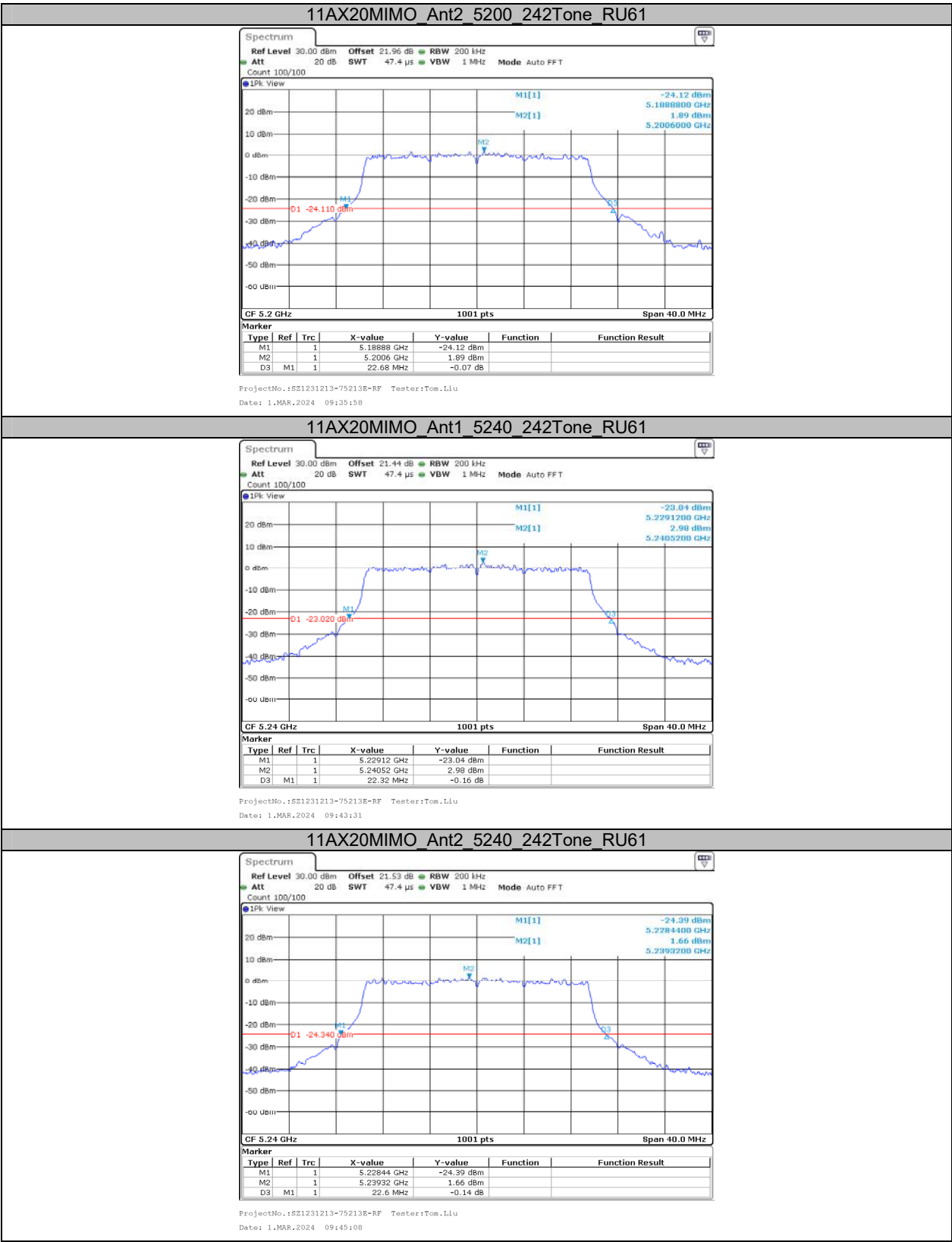
Appendix A1: Emission Bandwidth

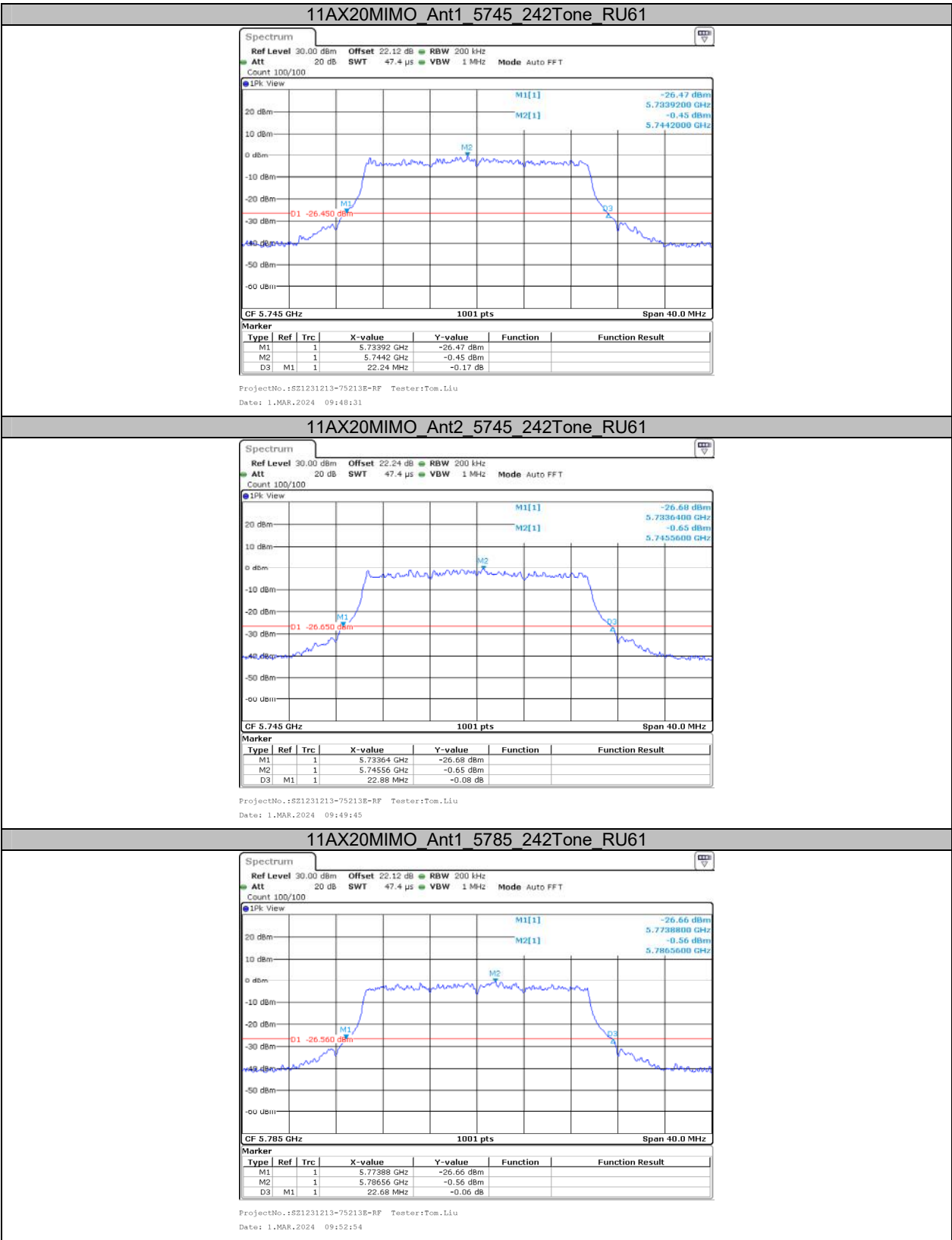
Test Result

| Test Mode  | Antenna | Frequency[M Hz] | Ru Size | Ru Index | 26db BW [MHz] | FL [MHz] | FH [MHz] | Limit [MHz] | Verdict |
|------------|---------|-----------------|---------|----------|---------------|----------|----------|-------------|---------|
| 11AX20MIMO | Ant1    | 5180            | 242Tone | RU61     | 22.72         | 5168.64  | 5191.36  | ---         | ---     |
|            | Ant2    | 5180            | 242Tone | RU61     | 22.24         | 5169.04  | 5191.28  | ---         | ---     |
|            | Ant1    | 5200            | 242Tone | RU61     | 22.60         | 5188.60  | 5211.20  | ---         | ---     |
|            | Ant2    | 5200            | 242Tone | RU61     | 22.68         | 5188.88  | 5211.56  | ---         | ---     |
|            | Ant1    | 5240            | 242Tone | RU61     | 22.32         | 5229.12  | 5251.44  | ---         | ---     |
|            | Ant2    | 5240            | 242Tone | RU61     | 22.60         | 5228.44  | 5251.04  | ---         | ---     |
|            | Ant1    | 5745            | 242Tone | RU61     | 22.24         | 5733.92  | 5756.16  | ---         | ---     |
|            | Ant2    | 5745            | 242Tone | RU61     | 22.88         | 5733.64  | 5756.52  | ---         | ---     |
|            | Ant1    | 5785            | 242Tone | RU61     | 22.68         | 5773.88  | 5796.56  | ---         | ---     |
|            | Ant2    | 5785            | 242Tone | RU61     | 22.64         | 5773.68  | 5796.32  | ---         | ---     |
|            | Ant1    | 5825            | 242Tone | RU61     | 22.28         | 5813.84  | 5836.12  | ---         | ---     |
|            | Ant2    | 5825            | 242Tone | RU61     | 22.68         | 5813.64  | 5836.32  | ---         | ---     |
| 11AX40MIMO | Ant1    | 5190            | 484Tone | RU65     | 39.92         | 5170.08  | 5210.00  | ---         | ---     |
|            | Ant2    | 5190            | 484Tone | RU65     | 39.84         | 5170.08  | 5209.92  | ---         | ---     |
|            | Ant1    | 5230            | 484Tone | RU65     | 39.92         | 5210.08  | 5250.00  | ---         | ---     |
|            | Ant2    | 5230            | 484Tone | RU65     | 39.68         | 5210.16  | 5249.84  | ---         | ---     |
|            | Ant1    | 5755            | 484Tone | RU65     | 39.92         | 5735.08  | 5775.00  | ---         | ---     |
|            | Ant2    | 5755            | 484Tone | RU65     | 39.76         | 5735.16  | 5774.92  | ---         | ---     |
|            | Ant1    | 5795            | 484Tone | RU65     | 40.00         | 5775.00  | 5815.00  | ---         | ---     |
| 11AX80MIMO | Ant2    | 5795            | 484Tone | RU65     | 39.76         | 5775.16  | 5814.92  | ---         | ---     |
|            | Ant1    | 5210            | 996Tone | RU67     | 81.12         | 5169.52  | 5250.64  | ---         | ---     |
|            | Ant2    | 5210            | 996Tone | RU67     | 81.12         | 5169.52  | 5250.64  | ---         | ---     |
|            | Ant1    | 5775            | 996Tone | RU67     | 81.12         | 5734.52  | 5815.64  | ---         | ---     |
|            | Ant2    | 5775            | 996Tone | RU67     | 80.80         | 5734.68  | 5815.48  | ---         | ---     |

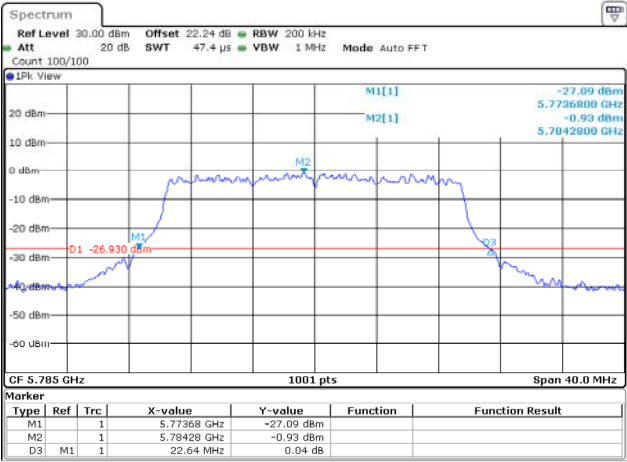
## Test Graphs





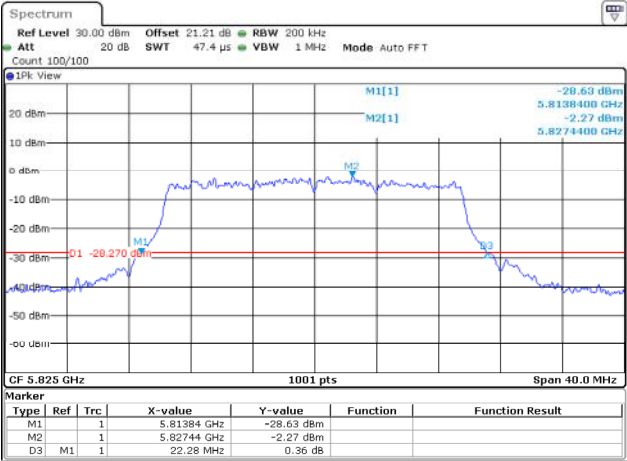


11AX20MIMO\_Ant2\_5785\_242Tone\_RU61



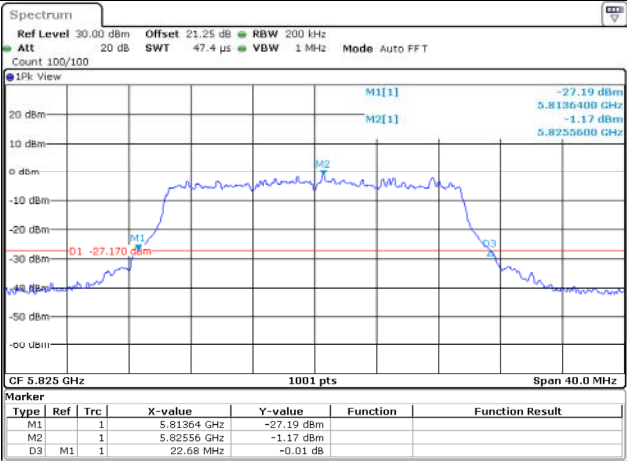
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 09:54:20

11AX20MIMO\_Ant1\_5825\_242Tone\_RU61



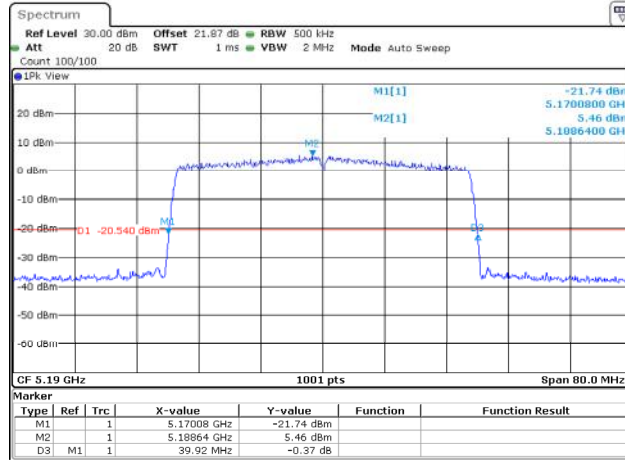
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 09:56:51

11AX20MIMO\_Ant2\_5825\_242Tone\_RU61



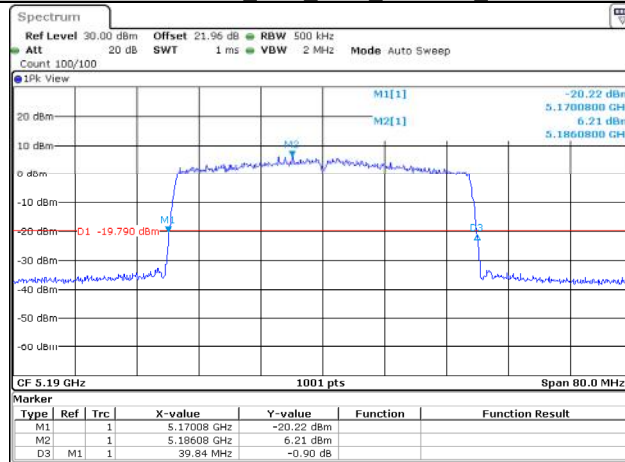
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 09:58:36

## 11AX40MIMO Ant1 5190 484Tone RU65



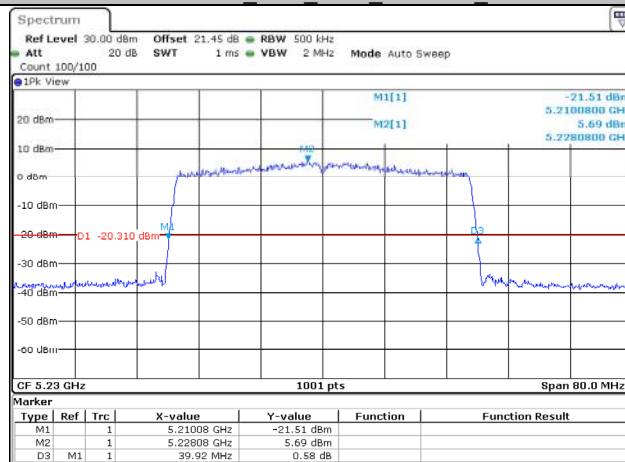
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:01:25

## 11AX40MIMO Ant2 5190 484Tone RU65



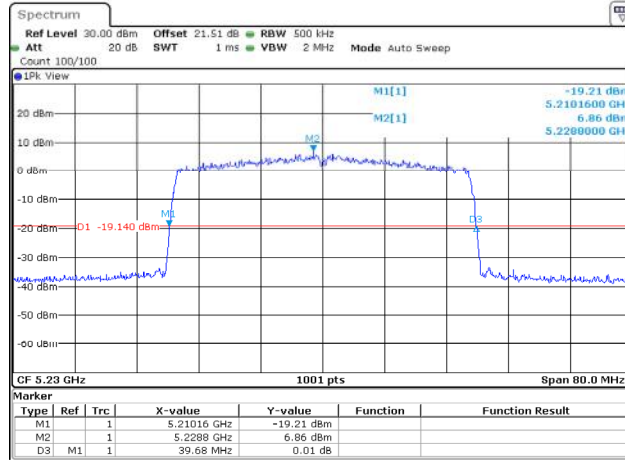
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:02:32

## 11AX40MIMO Ant1 5230 484Tone RU65



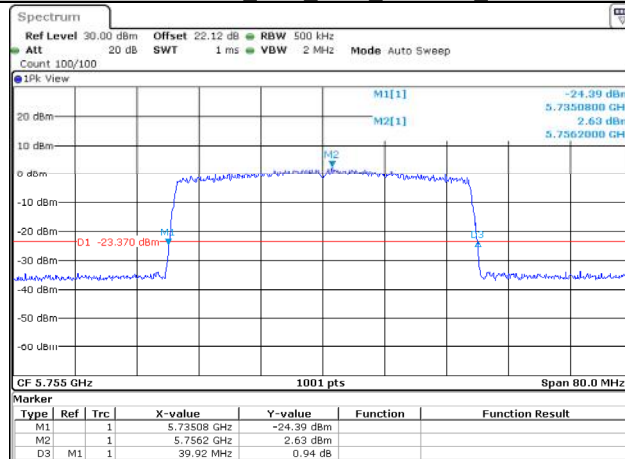
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Date: 1.MAR.2024 10:04:06

## 11AX40MIMO Ant2 5230 484Tone RU65



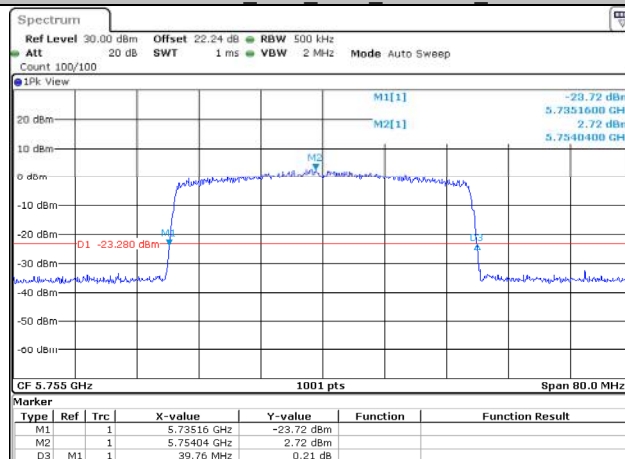
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:05:44

## 11AX40MIMO Ant1 5755 484Tone RU65

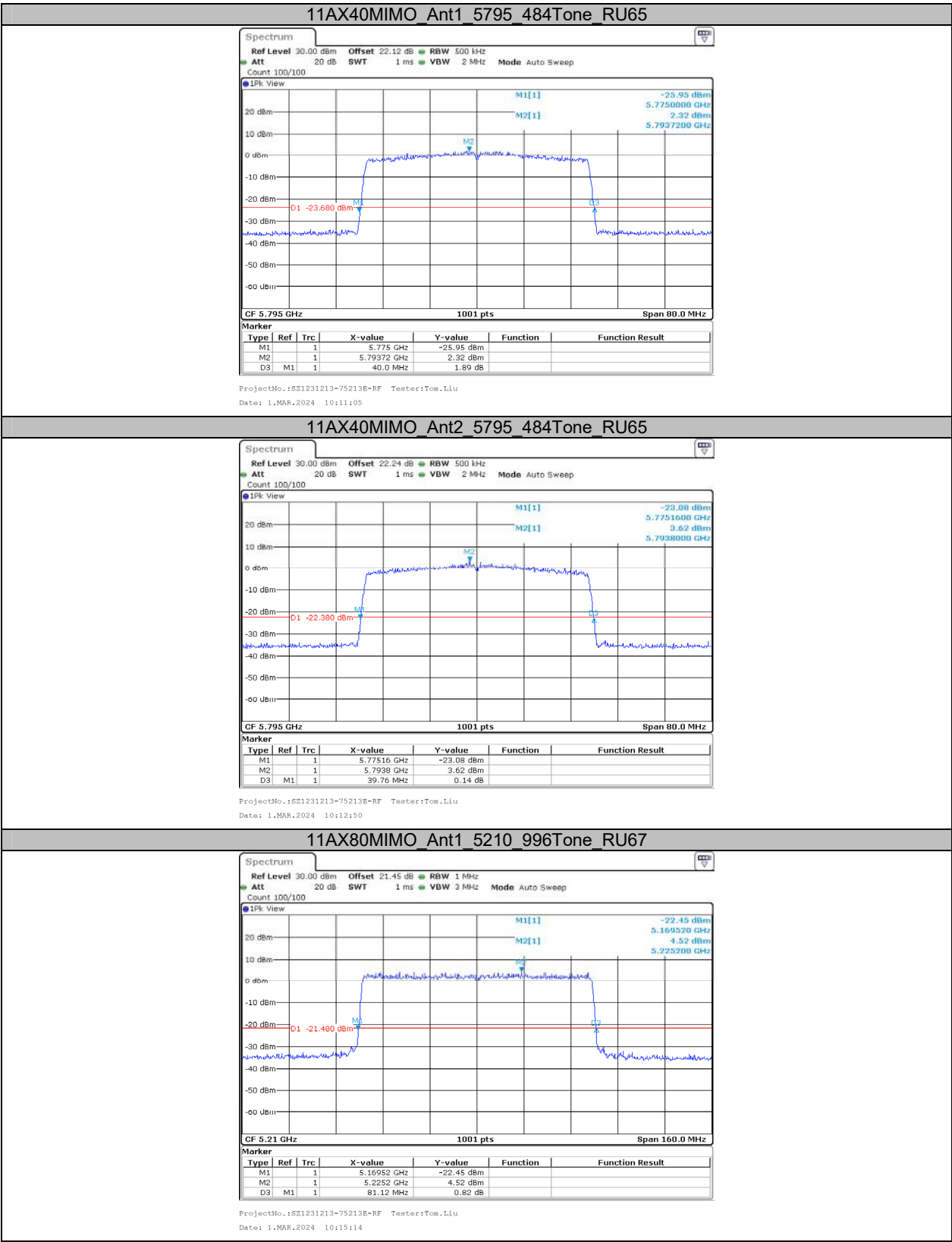


ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:08:07

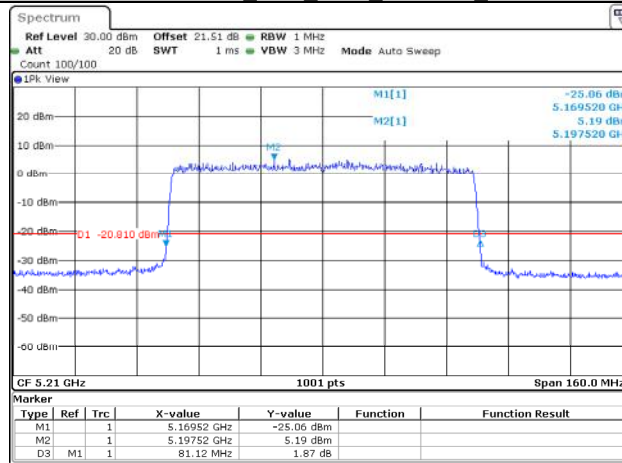
## 11AX40MIMO Ant2 5755 484Tone RU65



ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:09:20

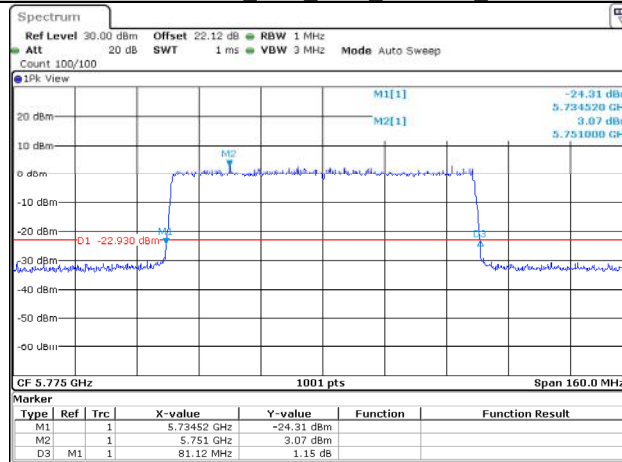


## 11AX80MIMO\_Ant2\_5210\_996Tone\_RU67



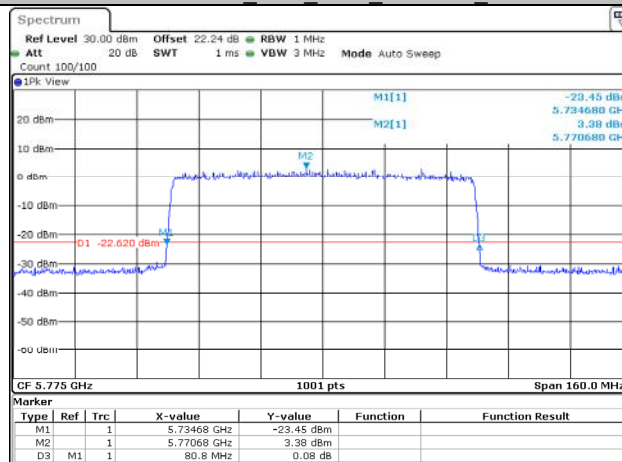
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:16:40

## 11AX80MIMO\_Ant1\_5775\_996Tone\_RU67



ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:19:32

## 11AX80MIMO\_Ant2\_5775\_996Tone\_RU67

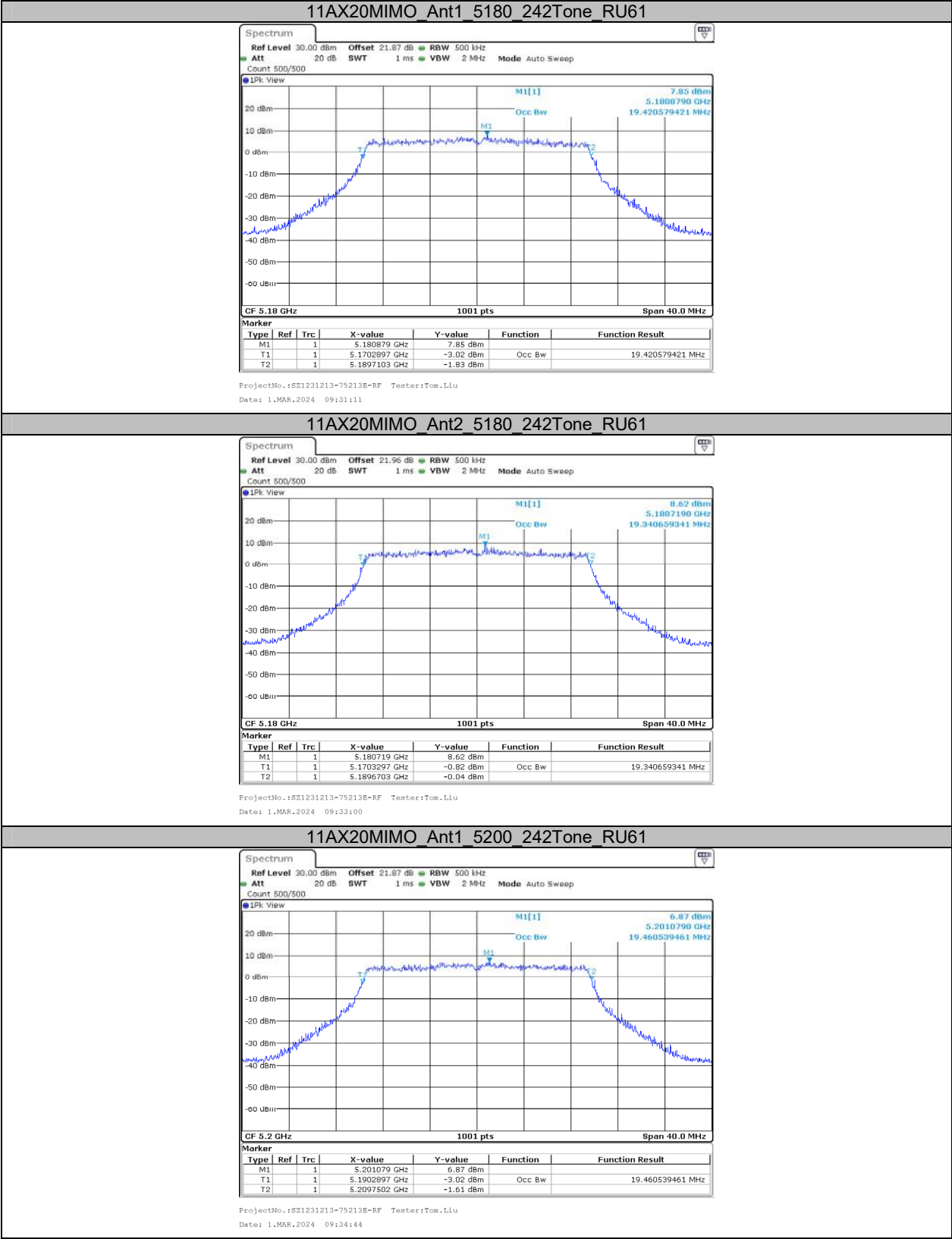


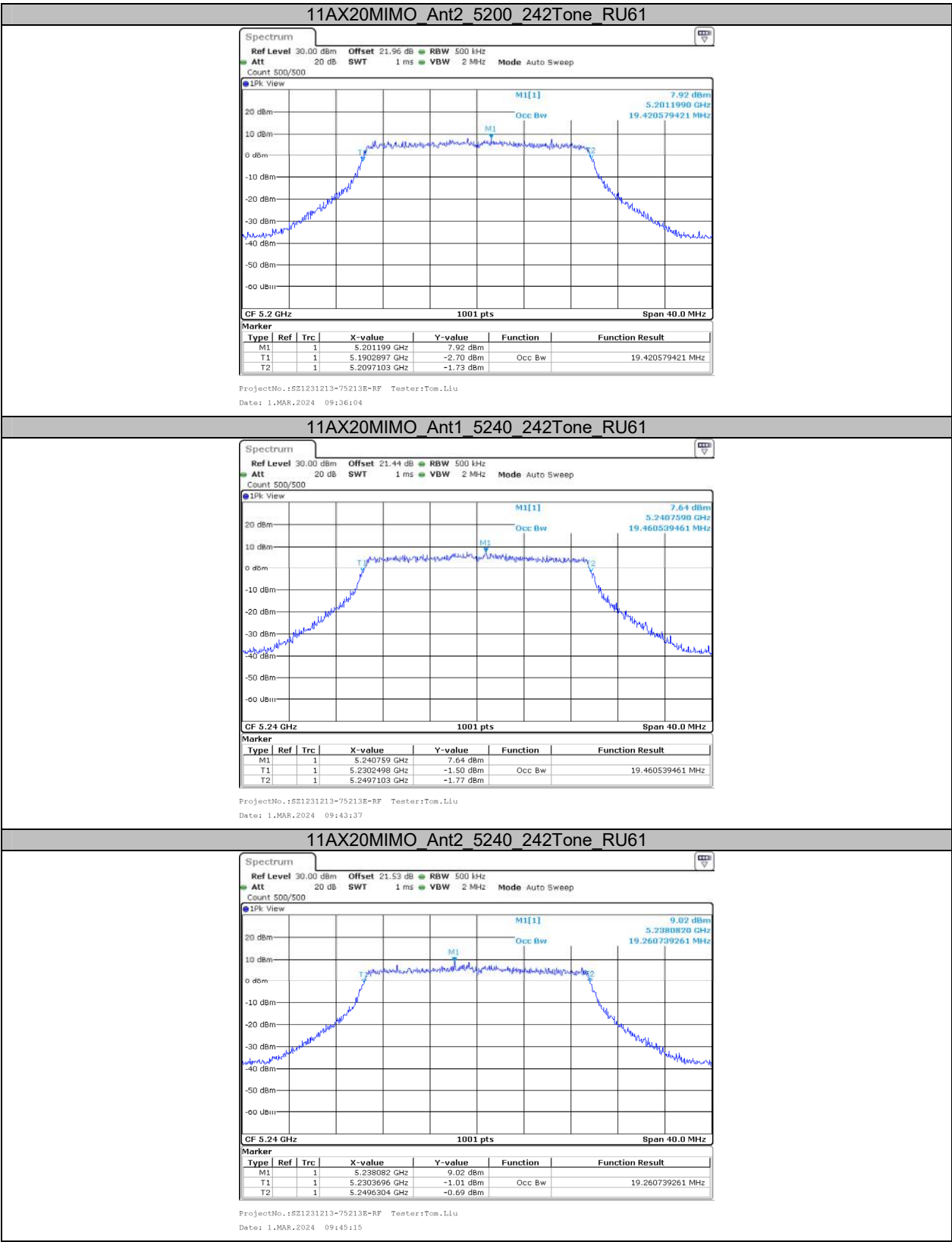
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:21:04

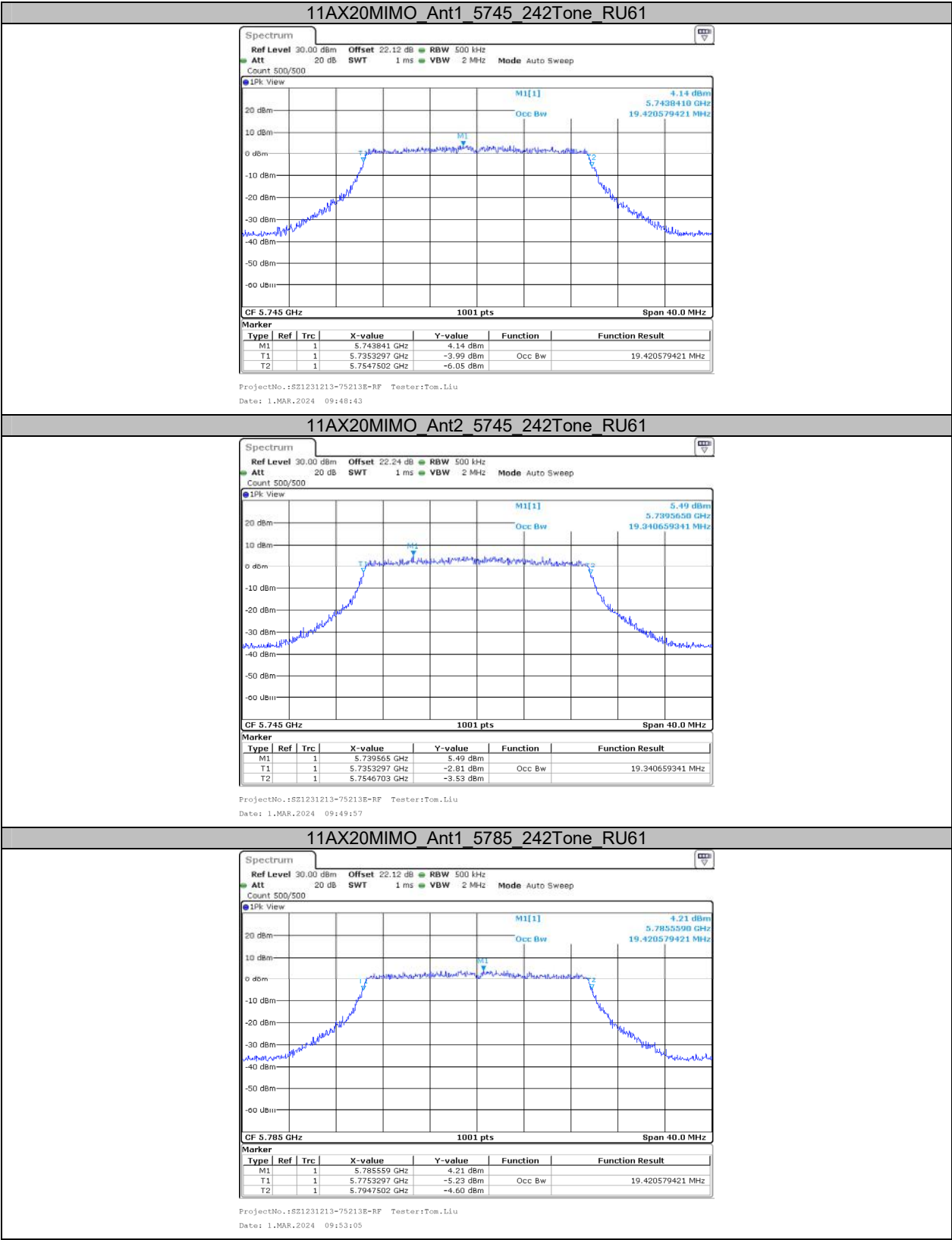
**Appendix A2: Occupied channel bandwidth****Test Result**

| Test Mode   | Antenna | Frequency [MHz] | Ru Size | Ru Index | OCB [MHz] | FL [MHz]  | FH [MHz]  | Limit [MHz] | Verdict |
|-------------|---------|-----------------|---------|----------|-----------|-----------|-----------|-------------|---------|
| 11AX20M IMO | Ant1    | 5180            | 242Tone | RU61     | 19.421    | 5170.2897 | 5189.7103 | ---         | ---     |
|             | Ant2    | 5180            | 242Tone | RU61     | 19.341    | 5170.3297 | 5189.6703 | ---         | ---     |
|             | Ant1    | 5200            | 242Tone | RU61     | 19.461    | 5190.2897 | 5209.7502 | ---         | ---     |
|             | Ant2    | 5200            | 242Tone | RU61     | 19.421    | 5190.2897 | 5209.7103 | ---         | ---     |
|             | Ant1    | 5240            | 242Tone | RU61     | 19.461    | 5230.2498 | 5249.7103 | ---         | ---     |
|             | Ant2    | 5240            | 242Tone | RU61     | 19.261    | 5230.3696 | 5249.6304 | ---         | ---     |
|             | Ant1    | 5745            | 242Tone | RU61     | 19.421    | 5735.3297 | 5754.7502 | ---         | ---     |
|             | Ant2    | 5745            | 242Tone | RU61     | 19.341    | 5735.3297 | 5754.6703 | ---         | ---     |
|             | Ant1    | 5785            | 242Tone | RU61     | 19.421    | 5775.3297 | 5794.7502 | ---         | ---     |
|             | Ant2    | 5785            | 242Tone | RU61     | 19.261    | 5775.3696 | 5794.6304 | ---         | ---     |
|             | Ant1    | 5825            | 242Tone | RU61     | 19.421    | 5815.2897 | 5834.7103 | ---         | ---     |
|             | Ant2    | 5825            | 242Tone | RU61     | 19.341    | 5815.3297 | 5834.6703 | ---         | ---     |
| 11AX40M IMO | Ant1    | 5190            | 484Tone | RU65     | 37.802    | 5171.1389 | 5208.9411 | ---         | ---     |
|             | Ant2    | 5190            | 484Tone | RU65     | 37.722    | 5171.1389 | 5208.8611 | ---         | ---     |
|             | Ant1    | 5230            | 484Tone | RU65     | 37.802    | 5211.1389 | 5248.9411 | ---         | ---     |
|             | Ant2    | 5230            | 484Tone | RU65     | 37.483    | 5211.2987 | 5248.7812 | ---         | ---     |
|             | Ant1    | 5755            | 484Tone | RU65     | 37.722    | 5736.2188 | 5773.9411 | ---         | ---     |
|             | Ant2    | 5755            | 484Tone | RU65     | 37.642    | 5736.2188 | 5773.8611 | ---         | ---     |
|             | Ant1    | 5795            | 484Tone | RU65     | 37.802    | 5776.1389 | 5813.9411 | ---         | ---     |
| 11AX80M IMO | Ant2    | 5795            | 484Tone | RU65     | 37.562    | 5776.2188 | 5813.7812 | ---         | ---     |
|             | Ant1    | 5210            | 996Tone | RU67     | 77.682    | 5171.1588 | 5248.8412 | ---         | ---     |
|             | Ant2    | 5210            | 996Tone | RU67     | 77.522    | 5171.1588 | 5248.6813 | ---         | ---     |
|             | Ant1    | 5775            | 996Tone | RU67     | 77.842    | 5736.1588 | 5814.0010 | ---         | ---     |
|             | Ant2    | 5775            | 996Tone | RU67     | 77.522    | 5736.3187 | 5813.8412 | ---         | ---     |

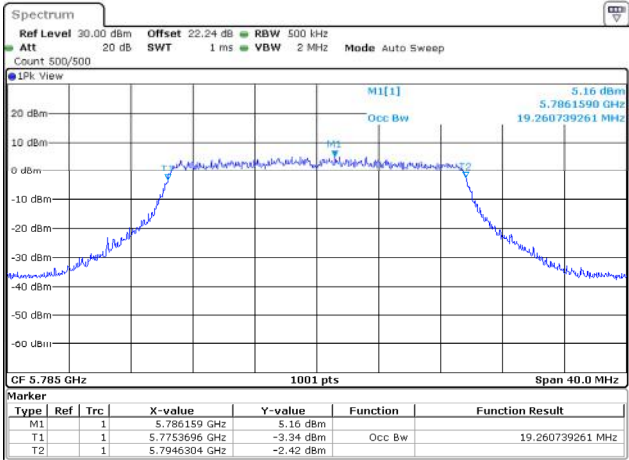
Test Graphs





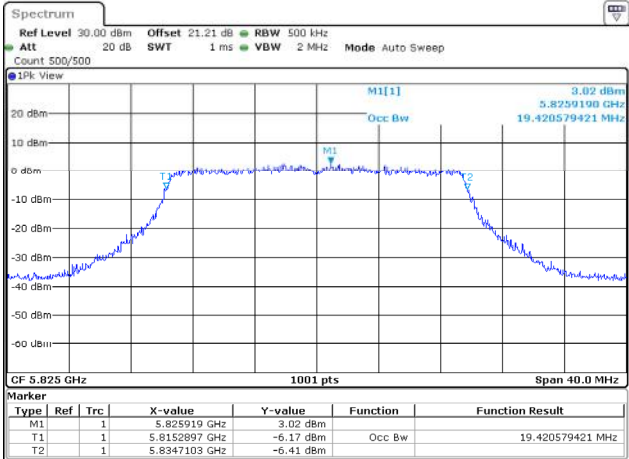


11AX20MIMO Ant2 5785 242Tone RU61



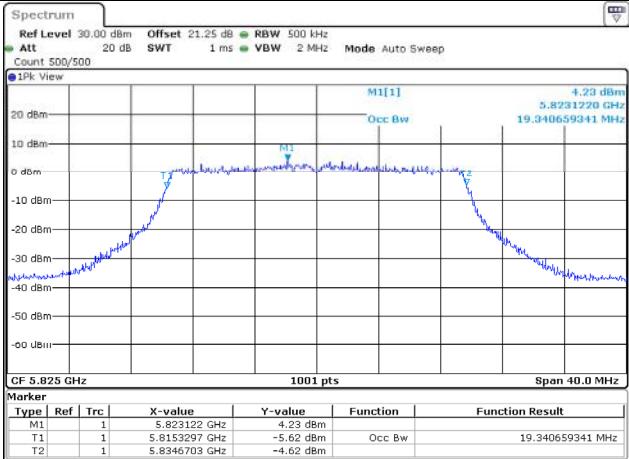
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 09:54:31

11AX20MIMO Ant1 5825 242Tone RU61



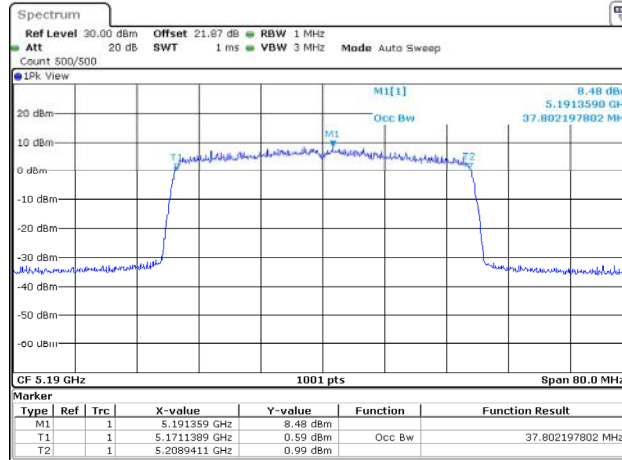
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 09:57:03

11AX20MIMO Ant2 5825 242Tone RU61



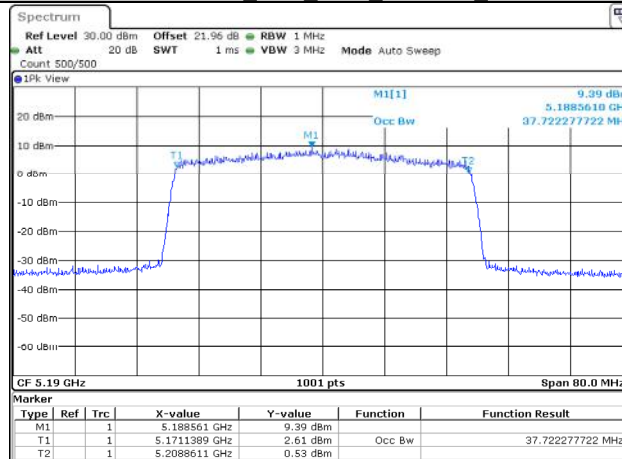
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Date: 1.MAR.2024 09:58:48

## 11AX40MIMO Ant1 5190 484Tone RU65



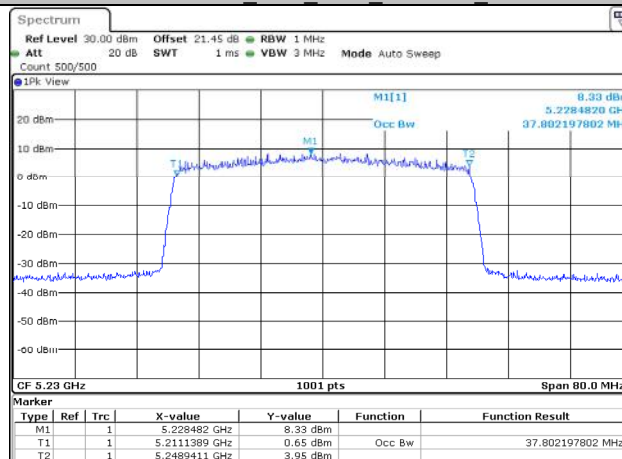
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Date: 1.MAR.2024 10:01:31

## 11AX40MIMO Ant2 5190 484Tone RU65



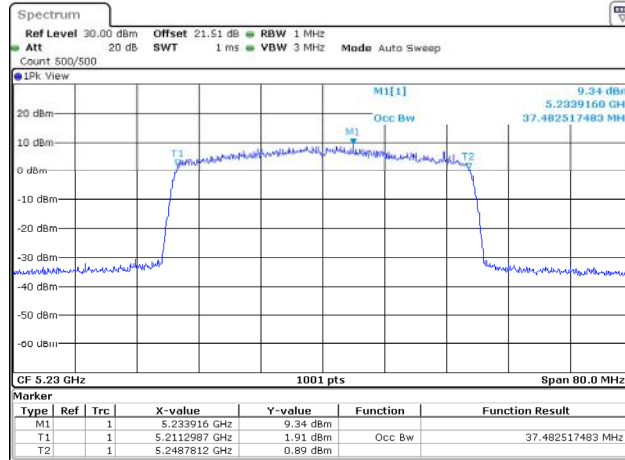
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:02:38

## 11AX40MIMO Ant1 5230 484Tone RU65



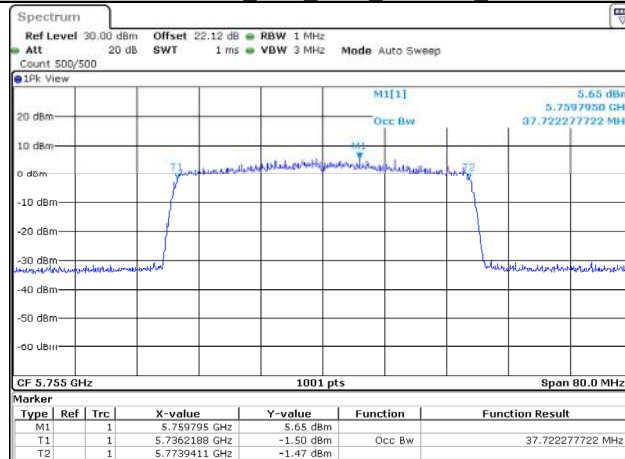
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:04:12

## 11AX40MIMO\_Ant2\_5230\_484Tone\_RU65



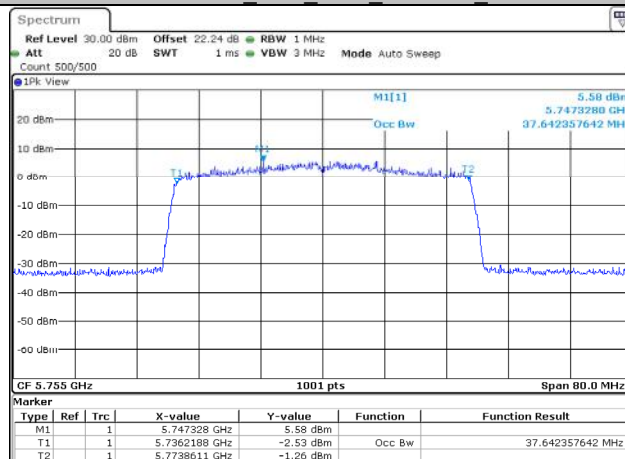
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:05:50

## 11AX40MIMO\_Ant1\_5755\_484Tone\_RU65



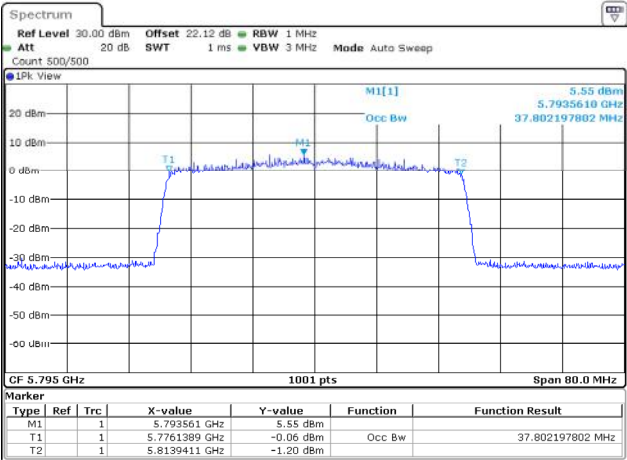
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:08:18

## 11AX40MIMO\_Ant2\_5755\_484Tone\_RU65



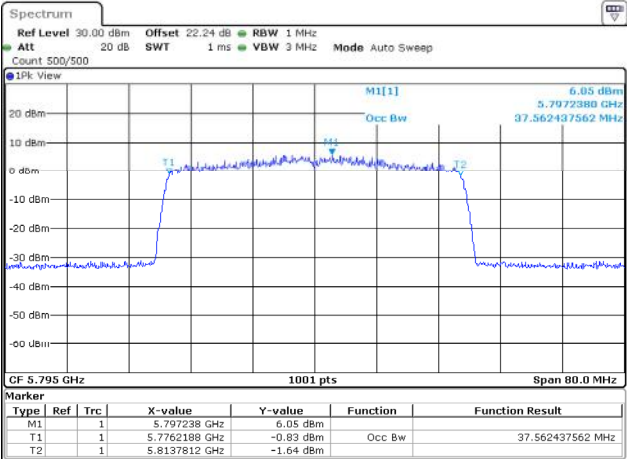
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:09:32

11AX40MIMO Ant1 5795 484Tone RU65



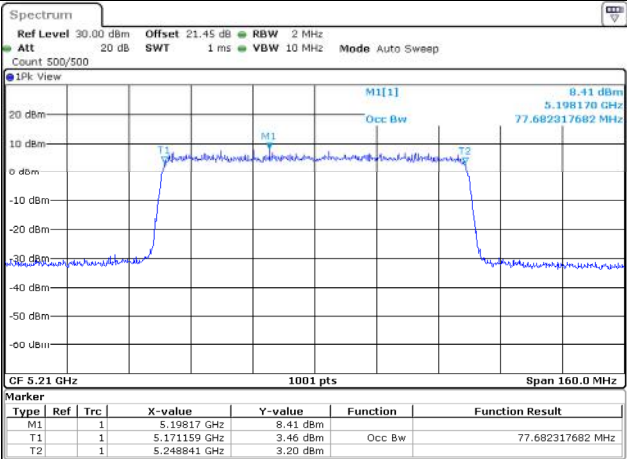
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:11:17

11AX40MIMO Ant2 5795 484Tone RU65

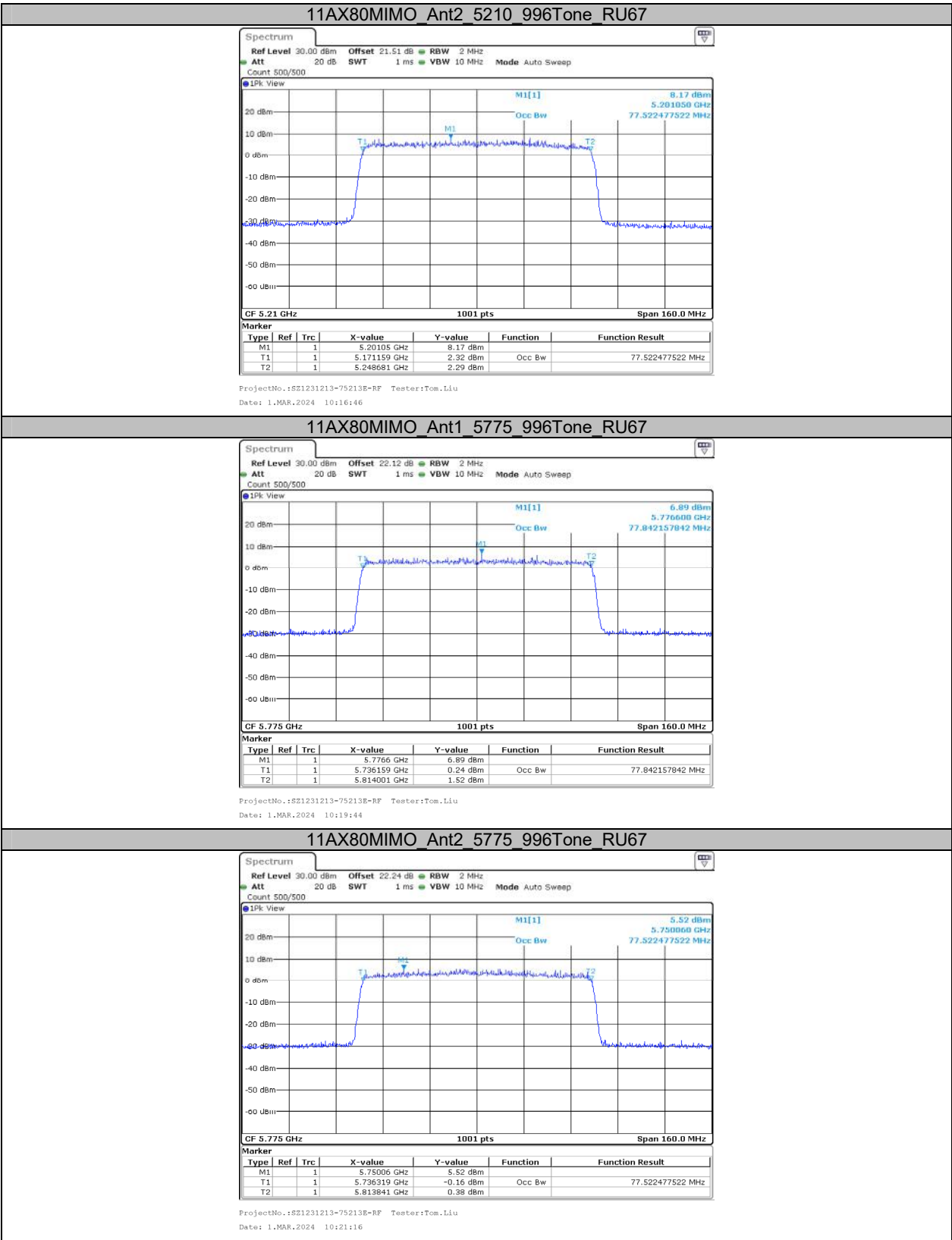


ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:13:01

11AX80MIMO Ant1 5210 996Tone RU67



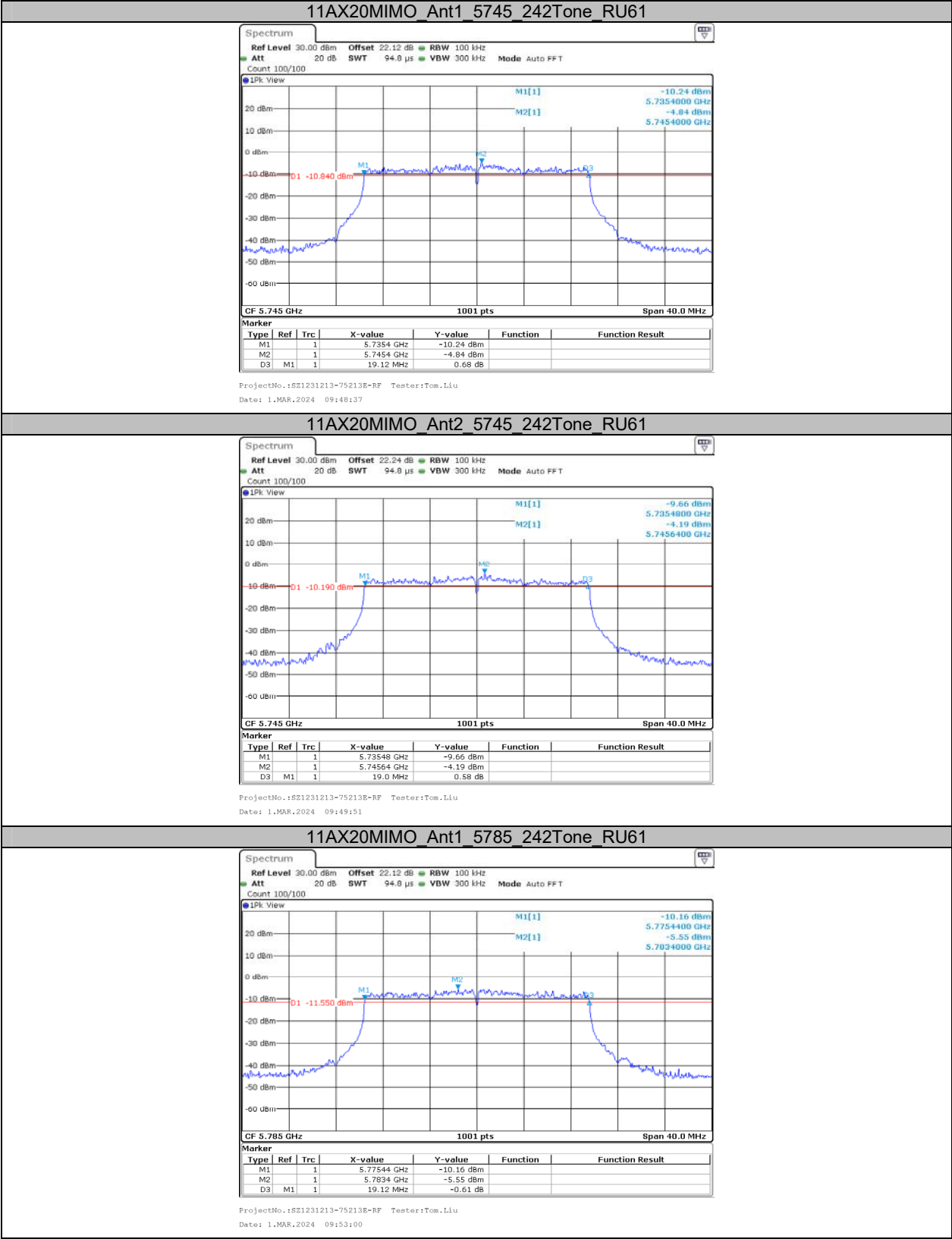
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:15:21

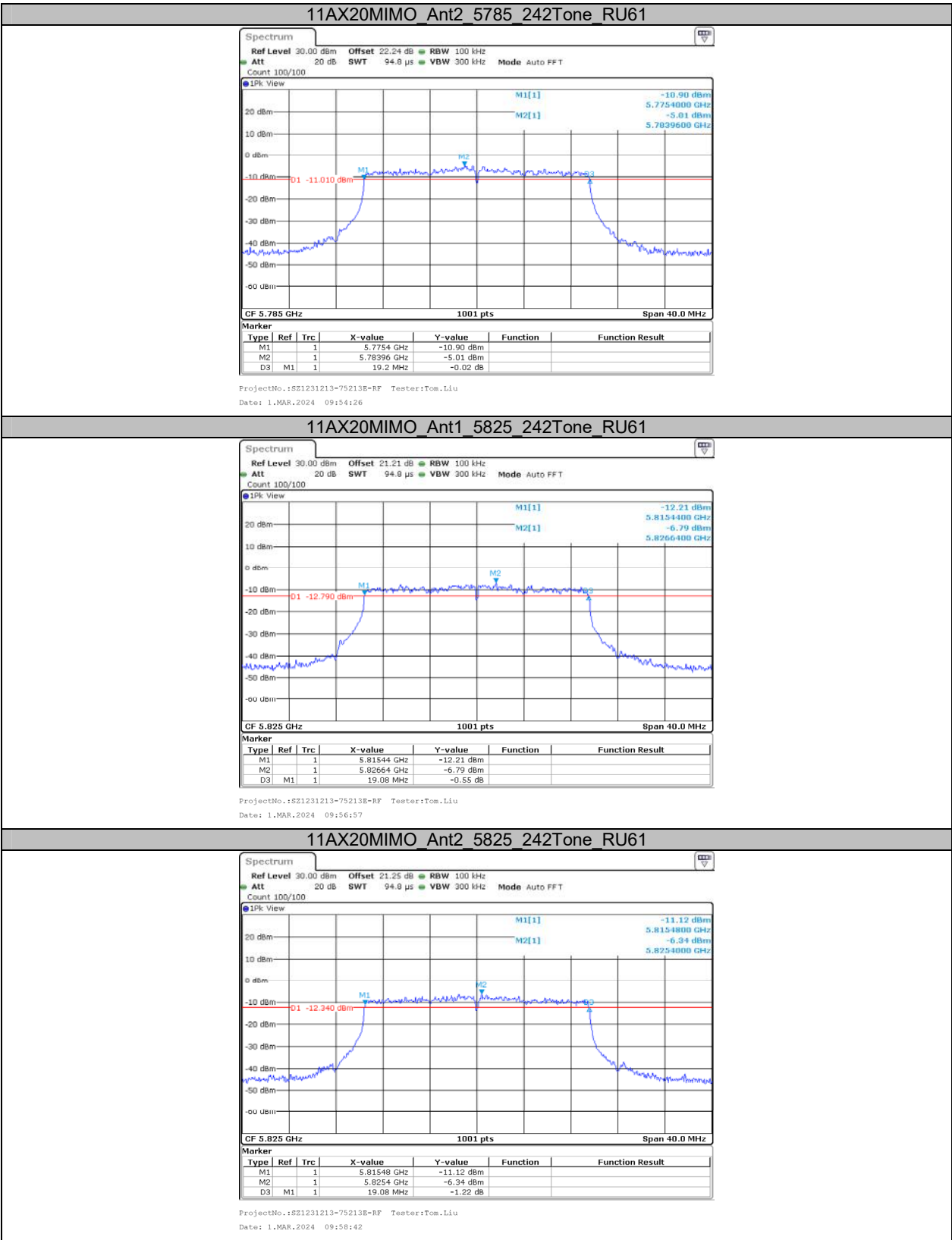


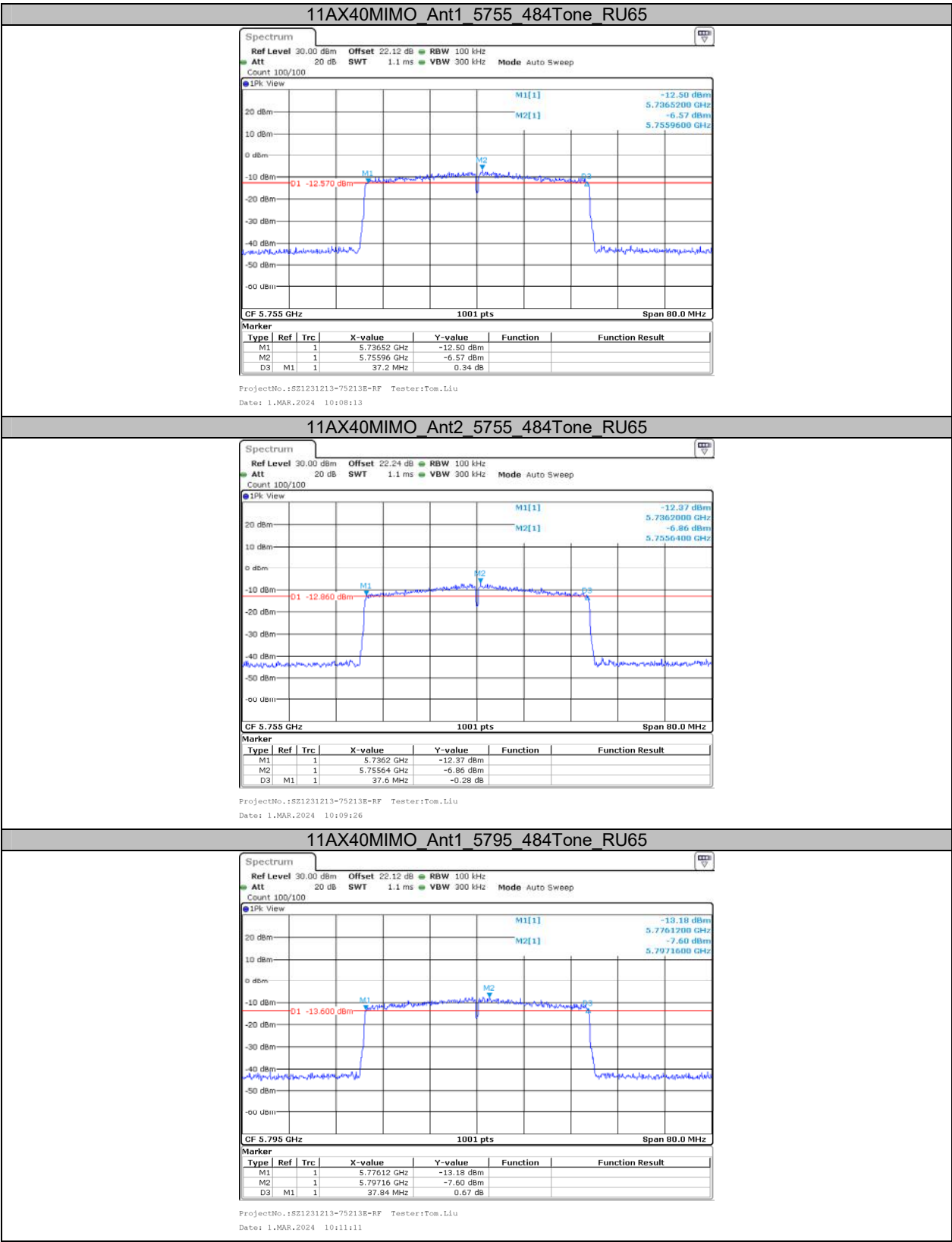
**Appendix A3: Min emission bandwidth (for Band 4)****Test Result**

| Test Mode   | Antenna | Frequency [MHz] | Ru Size | Ru Index | 6db BW [MHz] | FL [MHz] | FH [MHz] | Limit [MHz] | Verdict |
|-------------|---------|-----------------|---------|----------|--------------|----------|----------|-------------|---------|
| 11AX20M IMO | Ant1    | 5745            | 242Tone | RU61     | 19.12        | 5735.40  | 5754.52  | 0.5         | PASS    |
|             | Ant2    | 5745            | 242Tone | RU61     | 19.00        | 5735.48  | 5754.48  | 0.5         | PASS    |
|             | Ant1    | 5785            | 242Tone | RU61     | 19.12        | 5775.44  | 5794.56  | 0.5         | PASS    |
|             | Ant2    | 5785            | 242Tone | RU61     | 19.20        | 5775.40  | 5794.60  | 0.5         | PASS    |
|             | Ant1    | 5825            | 242Tone | RU61     | 19.08        | 5815.44  | 5834.52  | 0.5         | PASS    |
|             | Ant2    | 5825            | 242Tone | RU61     | 19.08        | 5815.48  | 5834.56  | 0.5         | PASS    |
| 11AX40M IMO | Ant1    | 5755            | 484Tone | RU65     | 37.20        | 5736.52  | 5773.72  | 0.5         | PASS    |
|             | Ant2    | 5755            | 484Tone | RU65     | 37.60        | 5736.20  | 5773.80  | 0.5         | PASS    |
|             | Ant1    | 5795            | 484Tone | RU65     | 37.84        | 5776.12  | 5813.96  | 0.5         | PASS    |
|             | Ant2    | 5795            | 484Tone | RU65     | 37.28        | 5776.36  | 5813.64  | 0.5         | PASS    |
| 11AX80M IMO | Ant1    | 5775            | 996Tone | RU67     | 78.08        | 5735.96  | 5814.04  | 0.5         | PASS    |
|             | Ant2    | 5775            | 996Tone | RU67     | 78.40        | 5735.80  | 5814.20  | 0.5         | PASS    |

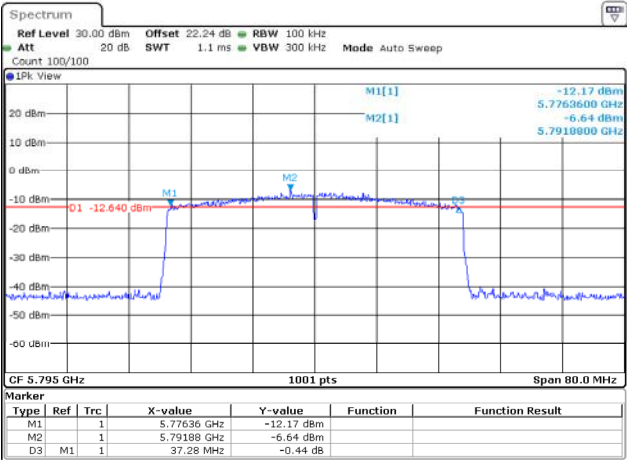
Test Graphs





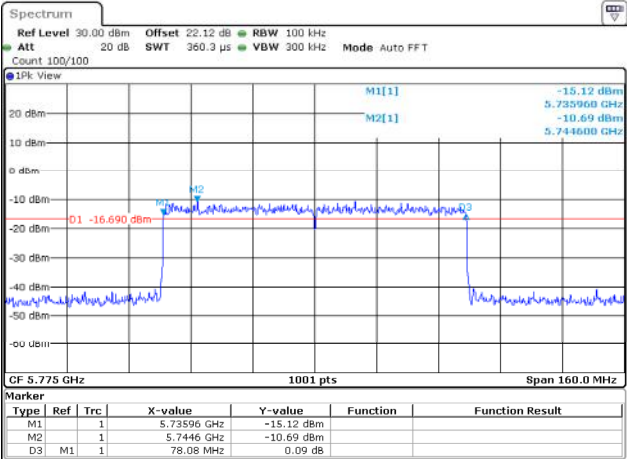


11AX40MIMO\_Ant2\_5795\_484Tone\_RU65



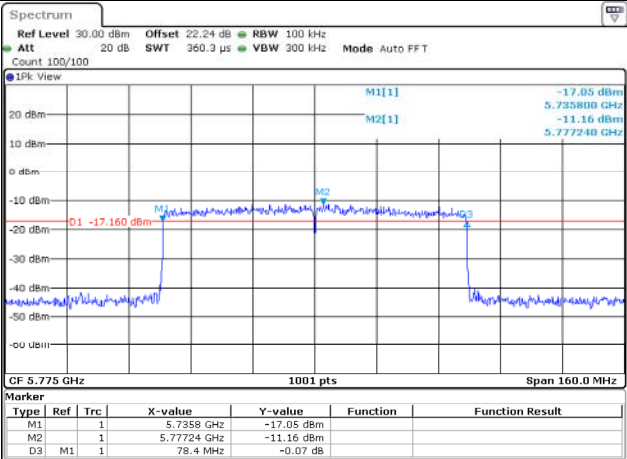
ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:12:56

11AX80MIMO\_Ant1\_5775\_996Tone\_RU67



ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 1.MAR.2024 10:19:38

11AX80MIMO\_Ant2\_5775\_996Tone\_RU67



ProjectNo.:SZ1231213-75213E-RF Tester:Tom.Liu  
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**Appendix B: Maximum conducted output power****Test Result**

| Test Mode  | Antenna | Frequency [MHz] | Ru Size | Ru Index | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|-----------------|---------|----------|--------------|-------------|---------|
| 11AX20MIMO | Ant1    | 5180            | 26Tone  | RU0      | 8.15         | ≤23.98      | PASS    |
|            |         |                 |         | RU8      | 7.29         | ≤23.98      | PASS    |
|            |         |                 | 52Tone  | RU37     | 9.15         | ≤23.98      | PASS    |
|            |         |                 |         | RU40     | 7.98         | ≤23.98      | PASS    |
|            |         |                 | 106Tone | RU53     | 10.07        | ≤23.98      | PASS    |
|            |         |                 |         | RU54     | 9.90         | ≤23.98      | PASS    |
|            |         |                 | 242Tone | RU61     | 11.76        | ≤23.98      | PASS    |
|            |         |                 |         |          |              |             |         |
|            | Ant2    | 5180            | 26Tone  | RU0      | 8.41         | ≤23.98      | PASS    |
|            |         |                 |         | RU8      | 7.98         | ≤23.98      | PASS    |
|            |         |                 | 52Tone  | RU37     | 9.62         | ≤23.98      | PASS    |
|            |         |                 |         | RU40     | 8.46         | ≤23.98      | PASS    |
|            |         |                 | 106Tone | RU53     | 10.01        | ≤23.98      | PASS    |
|            |         |                 |         | RU54     | 10.32        | ≤23.98      | PASS    |
|            |         |                 | 242Tone | RU61     | 12.20        | ≤23.98      | PASS    |
|            |         |                 |         |          |              |             |         |
|            | total   | 5180            | 26Tone  | RU0      | 11.29        | ≤23.98      | PASS    |
|            |         |                 |         | RU8      | 10.66        | ≤23.98      | PASS    |
|            |         |                 | 52Tone  | RU37     | 12.40        | ≤23.98      | PASS    |
|            |         |                 |         | RU40     | 11.24        | ≤23.98      | PASS    |
|            |         |                 | 106Tone | RU53     | 13.05        | ≤23.98      | PASS    |
|            |         |                 |         | RU54     | 13.13        | ≤23.98      | PASS    |
|            |         |                 | 242Tone | RU61     | 15.00        | ≤23.98      | PASS    |
|            |         |                 |         |          |              |             |         |
|            | Ant1    | 5200            | 26Tone  | RU0      | 7.42         | ≤23.98      | PASS    |
|            |         |                 |         | RU8      | 7.58         | ≤23.98      | PASS    |
|            |         |                 | 52Tone  | RU37     | 7.95         | ≤23.98      | PASS    |
|            |         |                 |         | RU40     | 8.17         | ≤23.98      | PASS    |
|            |         |                 | 106Tone | RU53     | 9.04         | ≤23.98      | PASS    |
|            |         |                 |         | RU54     | 8.98         | ≤23.98      | PASS    |
|            |         |                 | 242Tone | RU61     | 11.07        | ≤23.98      | PASS    |
|            |         |                 |         |          |              |             |         |
|            | Ant2    | 5200            | 26Tone  | RU0      | 8.03         | ≤23.98      | PASS    |
|            |         |                 |         | RU8      | 8.27         | ≤23.98      | PASS    |
|            |         |                 | 52Tone  | RU37     | 8.43         | ≤23.98      | PASS    |
|            |         |                 |         | RU40     | 8.54         | ≤23.98      | PASS    |
|            |         |                 | 106Tone | RU53     | 9.50         | ≤23.98      | PASS    |
|            |         |                 |         | RU54     | 9.48         | ≤23.98      | PASS    |
|            |         |                 | 242Tone | RU61     | 11.68        | ≤23.98      | PASS    |
|            |         |                 |         |          |              |             |         |
|            | total   | 5200            | 26Tone  | RU0      | 10.75        | ≤23.98      | PASS    |
|            |         |                 |         | RU8      | 10.95        | ≤23.98      | PASS    |
|            |         |                 | 52Tone  | RU37     | 11.21        | ≤23.98      | PASS    |
|            |         |                 |         | RU40     | 11.37        | ≤23.98      | PASS    |
|            |         |                 | 106Tone | RU53     | 12.29        | ≤23.98      | PASS    |
|            |         |                 |         | RU54     | 12.25        | ≤23.98      | PASS    |
|            |         |                 | 242Tone | RU61     | 14.40        | ≤23.98      | PASS    |
|            |         |                 |         |          |              |             |         |
|            | Ant1    | 5240            | 26Tone  | RU0      | 7.01         | ≤23.98      | PASS    |
|            |         |                 |         | RU8      | 7.10         | ≤23.98      | PASS    |
|            |         |                 | 52Tone  | RU37     | 7.25         | ≤23.98      | PASS    |
|            |         |                 |         | RU40     | 7.37         | ≤23.98      | PASS    |
|            |         |                 | 106Tone | RU53     | 8.64         | ≤23.98      | PASS    |
|            |         |                 |         | RU54     | 8.57         | ≤23.98      | PASS    |
|            |         |                 | 242Tone | RU61     | 10.98        | ≤23.98      | PASS    |
|            |         |                 |         |          |              |             |         |
|            | Ant2    | 5240            | 26Tone  | RU0      | 8.06         | ≤23.98      | PASS    |
|            |         |                 |         | RU8      | 7.90         | ≤23.98      | PASS    |

|  |  |       |      |         |      |       |        |      |
|--|--|-------|------|---------|------|-------|--------|------|
|  |  |       |      | 52Tone  | RU37 | 7.99  | ≤23.98 | PASS |
|  |  |       |      |         | RU40 | 8.22  | ≤23.98 | PASS |
|  |  |       |      | 106Tone | RU53 | 9.28  | ≤23.98 | PASS |
|  |  |       |      |         | RU54 | 8.97  | ≤23.98 | PASS |
|  |  |       |      | 242Tone | RU61 | 11.33 | ≤23.98 | PASS |
|  |  | total | 5240 | 26Tone  | RU0  | 10.58 | ≤23.98 | PASS |
|  |  |       |      |         | RU8  | 10.53 | ≤23.98 | PASS |
|  |  |       |      | 52Tone  | RU37 | 10.65 | ≤23.98 | PASS |
|  |  |       |      |         | RU40 | 10.83 | ≤23.98 | PASS |
|  |  |       |      | 106Tone | RU53 | 11.98 | ≤23.98 | PASS |
|  |  |       |      |         | RU54 | 11.78 | ≤23.98 | PASS |
|  |  |       |      | 242Tone | RU61 | 14.17 | ≤23.98 | PASS |
|  |  | Ant1  | 5745 | 26Tone  | RU0  | 5.95  | ≤30.00 | PASS |
|  |  |       |      |         | RU8  | 5.31  | ≤30.00 | PASS |
|  |  |       |      | 52Tone  | RU37 | 5.69  | ≤30.00 | PASS |
|  |  |       |      |         | RU40 | 5.70  | ≤30.00 | PASS |
|  |  |       |      | 106Tone | RU53 | 6.08  | ≤30.00 | PASS |
|  |  |       |      |         | RU54 | 6.00  | ≤30.00 | PASS |
|  |  |       |      | 242Tone | RU61 | 8.04  | ≤30.00 | PASS |
|  |  | Ant2  | 5745 | 26Tone  | RU0  | 6.27  | ≤30.00 | PASS |
|  |  |       |      |         | RU8  | 5.84  | ≤30.00 | PASS |
|  |  |       |      | 52Tone  | RU37 | 6.14  | ≤30.00 | PASS |
|  |  |       |      |         | RU40 | 6.06  | ≤30.00 | PASS |
|  |  |       |      | 106Tone | RU53 | 6.39  | ≤30.00 | PASS |
|  |  |       |      |         | RU54 | 6.34  | ≤30.00 | PASS |
|  |  |       |      | 242Tone | RU61 | 8.62  | ≤30.00 | PASS |
|  |  | total | 5745 | 26Tone  | RU0  | 9.12  | ≤30.00 | PASS |
|  |  |       |      |         | RU8  | 8.59  | ≤30.00 | PASS |
|  |  |       |      | 52Tone  | RU37 | 8.93  | ≤30.00 | PASS |
|  |  |       |      |         | RU40 | 8.89  | ≤30.00 | PASS |
|  |  |       |      | 106Tone | RU53 | 9.25  | ≤30.00 | PASS |
|  |  |       |      |         | RU54 | 9.18  | ≤30.00 | PASS |
|  |  |       |      | 242Tone | RU61 | 11.35 | ≤30.00 | PASS |
|  |  | Ant1  | 5785 | 26Tone  | RU0  | 6.07  | ≤30.00 | PASS |
|  |  |       |      |         | RU8  | 5.29  | ≤30.00 | PASS |
|  |  |       |      | 52Tone  | RU37 | 6.16  | ≤30.00 | PASS |
|  |  |       |      |         | RU40 | 5.52  | ≤30.00 | PASS |
|  |  |       |      | 106Tone | RU53 | 6.47  | ≤30.00 | PASS |
|  |  |       |      |         | RU54 | 6.14  | ≤30.00 | PASS |
|  |  |       |      | 242Tone | RU61 | 8.13  | ≤30.00 | PASS |
|  |  | Ant2  | 5785 | 26Tone  | RU0  | 6.99  | ≤30.00 | PASS |
|  |  |       |      |         | RU8  | 6.13  | ≤30.00 | PASS |
|  |  |       |      | 52Tone  | RU37 | 6.91  | ≤30.00 | PASS |
|  |  |       |      |         | RU40 | 6.30  | ≤30.00 | PASS |
|  |  |       |      | 106Tone | RU53 | 7.10  | ≤30.00 | PASS |
|  |  |       |      |         | RU54 | 6.78  | ≤30.00 | PASS |
|  |  |       |      | 242Tone | RU61 | 8.69  | ≤30.00 | PASS |
|  |  | total | 5785 | 26Tone  | RU0  | 9.56  | ≤30.00 | PASS |
|  |  |       |      |         | RU8  | 8.74  | ≤30.00 | PASS |
|  |  |       |      | 52Tone  | RU37 | 9.56  | ≤30.00 | PASS |
|  |  |       |      |         | RU40 | 8.94  | ≤30.00 | PASS |
|  |  |       |      | 106Tone | RU53 | 9.81  | ≤30.00 | PASS |
|  |  |       |      |         | RU54 | 9.48  | ≤30.00 | PASS |
|  |  |       |      | 242Tone | RU61 | 11.43 | ≤30.00 | PASS |
|  |  | Ant1  | 5825 | 26Tone  | RU0  | 4.88  | ≤30.00 | PASS |
|  |  |       |      |         | RU8  | 4.46  | ≤30.00 | PASS |
|  |  |       |      | 52Tone  | RU37 | 5.28  | ≤30.00 | PASS |
|  |  |       |      |         | RU40 | 4.92  | ≤30.00 | PASS |

|         |         |         |            |         |        |        |        |        |        |
|---------|---------|---------|------------|---------|--------|--------|--------|--------|--------|
|         |         |         | 106Tone    | RU53    | 5.33   | ≤30.00 | PASS   |        |        |
|         |         |         |            | RU54    | 5.23   | ≤30.00 | PASS   |        |        |
|         |         |         | 242Tone    | RU61    | 6.29   | ≤30.00 | PASS   |        |        |
|         |         | Ant2    | 5825       | 26Tone  | RU0    | 5.94   | ≤30.00 | PASS   |        |
|         |         |         |            |         | RU8    | 5.91   | ≤30.00 | PASS   |        |
|         |         |         |            | 52Tone  | RU37   | 6.31   | ≤30.00 | PASS   |        |
|         |         |         |            |         | RU40   | 6.19   | ≤30.00 | PASS   |        |
|         |         |         |            | 106Tone | RU53   | 6.51   | ≤30.00 | PASS   |        |
|         |         |         |            |         | RU54   | 6.37   | ≤30.00 | PASS   |        |
|         | 242Tone | RU61    | 7.43       | ≤30.00  | PASS   |        |        |        |        |
|         | total   | 5825    | 26Tone     | RU0     | 8.45   | ≤30.00 | PASS   |        |        |
|         |         |         |            | RU8     | 8.26   | ≤30.00 | PASS   |        |        |
|         |         |         | 52Tone     | RU37    | 8.84   | ≤30.00 | PASS   |        |        |
|         |         |         |            | RU40    | 8.61   | ≤30.00 | PASS   |        |        |
|         |         |         | 106Tone    | RU53    | 8.97   | ≤30.00 | PASS   |        |        |
|         |         |         |            | RU54    | 8.85   | ≤30.00 | PASS   |        |        |
|         |         |         | 242Tone    | RU61    | 9.91   | ≤30.00 | PASS   |        |        |
|         |         |         | 11AX40MIMO | Ant1    | 5190   | 26Tone | RU0    | 4.86   | ≤23.98 |
| RU17    |         |         |            |         |        |        | 4.55   | ≤23.98 | PASS   |
| 52Tone  | RU37    | 6.15    |            |         |        | ≤23.98 | PASS   |        |        |
|         | RU44    | 5.58    |            |         |        | ≤23.98 | PASS   |        |        |
| 106Tone | RU53    | 6.73    |            |         |        | ≤23.98 | PASS   |        |        |
|         | RU56    | 6.33    |            |         |        | ≤23.98 | PASS   |        |        |
| 242Tone | RU61    | 8.17    |            |         |        | ≤23.98 | PASS   |        |        |
|         | RU62    | 8.20    |            |         |        | ≤23.98 | PASS   |        |        |
| 484Tone | RU65    | 11.15   |            |         |        | ≤23.98 | PASS   |        |        |
| Ant2    | 5190    | 26Tone  |            | RU0     | 5.31   | ≤23.98 | PASS   |        |        |
|         |         |         |            | RU17    | 4.83   | ≤23.98 | PASS   |        |        |
|         |         | 52Tone  |            | RU37    | 6.26   | ≤23.98 | PASS   |        |        |
|         |         |         |            | RU44    | 5.69   | ≤23.98 | PASS   |        |        |
|         |         | 106Tone |            | RU53    | 7.09   | ≤23.98 | PASS   |        |        |
|         |         |         |            | RU56    | 6.58   | ≤23.98 | PASS   |        |        |
|         |         | 242Tone |            | RU61    | 8.37   | ≤23.98 | PASS   |        |        |
|         |         |         |            | RU62    | 8.39   | ≤23.98 | PASS   |        |        |
|         |         | 484Tone |            | RU65    | 11.44  | ≤23.98 | PASS   |        |        |
| total   | 5190    | 26Tone  |            | RU0     | 8.10   | ≤23.98 | PASS   |        |        |
|         |         |         |            | RU17    | 7.70   | ≤23.98 | PASS   |        |        |
|         |         | 52Tone  |            | RU37    | 9.22   | ≤23.98 | PASS   |        |        |
|         |         |         |            | RU44    | 8.65   | ≤23.98 | PASS   |        |        |
|         |         | 106Tone |            | RU53    | 9.92   | ≤23.98 | PASS   |        |        |
|         |         |         |            | RU56    | 9.47   | ≤23.98 | PASS   |        |        |
|         |         | 242Tone | RU61       | 11.28   | ≤23.98 | PASS   |        |        |        |
|         |         |         | RU62       | 11.31   | ≤23.98 | PASS   |        |        |        |
|         |         | 484Tone | RU65       | 14.31   | ≤23.98 | PASS   |        |        |        |
| Ant1    | 5230    | 26Tone  | RU0        | 4.49    | ≤23.98 | PASS   |        |        |        |
|         |         |         | RU17       | 4.32    | ≤23.98 | PASS   |        |        |        |
|         |         | 52Tone  | RU37       | 5.47    | ≤23.98 | PASS   |        |        |        |
|         |         |         | RU44       | 5.11    | ≤23.98 | PASS   |        |        |        |
|         |         | 106Tone | RU53       | 6.24    | ≤23.98 | PASS   |        |        |        |
|         |         |         | RU56       | 6.03    | ≤23.98 | PASS   |        |        |        |
|         |         | 242Tone | RU61       | 7.96    | ≤23.98 | PASS   |        |        |        |
|         |         |         | RU62       | 7.43    | ≤23.98 | PASS   |        |        |        |
|         |         | 484Tone | RU65       | 11.15   | ≤23.98 | PASS   |        |        |        |
| Ant2    | 5230    | 26Tone  | RU0        | 4.82    | ≤23.98 | PASS   |        |        |        |
|         |         |         | RU17       | 4.63    | ≤23.98 | PASS   |        |        |        |
|         |         | 52Tone  | RU37       | 5.56    | ≤23.98 | PASS   |        |        |        |
|         |         |         | RU44       | 5.41    | ≤23.98 | PASS   |        |        |        |
|         |         | 106Tone | RU53       | 6.35    | ≤23.98 | PASS   |        |        |        |

|  |         |      |         |      |        |        |      |        |      |
|--|---------|------|---------|------|--------|--------|------|--------|------|
|  |         |      |         | RU56 | 6.19   | ≤23.98 | PASS |        |      |
|  |         |      | 242Tone | RU61 | 8.14   | ≤23.98 | PASS |        |      |
|  |         |      |         | RU62 | 7.93   | ≤23.98 | PASS |        |      |
|  |         |      | 484Tone | RU65 | 11.25  | ≤23.98 | PASS |        |      |
|  | total   | 5230 | 26Tone  | RU0  | 7.67   | ≤23.98 | PASS |        |      |
|  |         |      |         | RU17 | 7.49   | ≤23.98 | PASS |        |      |
|  |         |      | 52Tone  | RU37 | 8.53   | ≤23.98 | PASS |        |      |
|  |         |      |         | RU44 | 8.27   | ≤23.98 | PASS |        |      |
|  |         |      | 106Tone | RU53 | 9.31   | ≤23.98 | PASS |        |      |
|  |         |      |         | RU56 | 9.12   | ≤23.98 | PASS |        |      |
|  |         |      | 242Tone | RU61 | 11.06  | ≤23.98 | PASS |        |      |
|  |         |      |         | RU62 | 10.70  | ≤23.98 | PASS |        |      |
|  |         |      | 484Tone | RU65 | 14.21  | ≤23.98 | PASS |        |      |
|  |         |      | Ant1    | 5755 | 26Tone | RU0    | 4.54 | ≤30.00 | PASS |
|  |         |      |         |      |        | RU17   | 4.42 | ≤30.00 | PASS |
|  |         |      |         |      | 52Tone | RU37   | 4.56 | ≤30.00 | PASS |
|  | RU44    | 4.55 |         |      |        | ≤30.00 | PASS |        |      |
|  | 106Tone | RU53 |         |      | 5.04   | ≤30.00 | PASS |        |      |
|  |         | RU56 |         |      | 5.15   | ≤30.00 | PASS |        |      |
|  | 242Tone | RU61 |         |      | 6.41   | ≤30.00 | PASS |        |      |
|  |         | RU62 |         |      | 6.06   | ≤30.00 | PASS |        |      |
|  | 484Tone | RU65 |         |      | 7.94   | ≤30.00 | PASS |        |      |
|  | Ant2    | 5755 |         |      | 26Tone | RU0    | 4.60 | ≤30.00 | PASS |
|  |         |      |         |      |        | RU17   | 4.21 | ≤30.00 | PASS |
|  |         |      |         |      | 52Tone | RU37   | 4.63 | ≤30.00 | PASS |
|  |         |      | RU44    | 4.88 |        | ≤30.00 | PASS |        |      |
|  |         |      | 106Tone | RU53 | 5.19   | ≤30.00 | PASS |        |      |
|  |         |      |         | RU56 | 5.52   | ≤30.00 | PASS |        |      |
|  |         |      | 242Tone | RU61 | 6.61   | ≤30.00 | PASS |        |      |
|  |         |      |         | RU62 | 6.36   | ≤30.00 | PASS |        |      |
|  |         |      | 484Tone | RU65 | 8.24   | ≤30.00 | PASS |        |      |
|  |         |      | total   | 5755 | 26Tone | RU0    | 7.58 | ≤30.00 | PASS |
|  |         |      |         |      |        | RU17   | 7.33 | ≤30.00 | PASS |
|  |         |      |         |      | 52Tone | RU37   | 7.61 | ≤30.00 | PASS |
|  | RU44    | 7.73 |         |      |        | ≤30.00 | PASS |        |      |
|  | 106Tone | RU53 |         |      | 8.13   | ≤30.00 | PASS |        |      |
|  |         | RU56 |         |      | 8.35   | ≤30.00 | PASS |        |      |
|  | 242Tone | RU61 |         |      | 9.52   | ≤30.00 | PASS |        |      |
|  |         | RU62 |         |      | 9.22   | ≤30.00 | PASS |        |      |
|  | 484Tone | RU65 |         |      | 11.10  | ≤30.00 | PASS |        |      |
|  | Ant1    | 5795 |         |      | 26Tone | RU0    | 4.19 | ≤30.00 | PASS |
|  |         |      |         |      |        | RU17   | 3.99 | ≤30.00 | PASS |
|  |         |      |         |      | 52Tone | RU37   | 4.43 | ≤30.00 | PASS |
|  |         |      | RU44    | 4.31 |        | ≤30.00 | PASS |        |      |
|  |         |      | 106Tone | RU53 | 5.21   | ≤30.00 | PASS |        |      |
|  |         |      |         | RU56 | 4.77   | ≤30.00 | PASS |        |      |
|  |         |      | 242Tone | RU61 | 5.86   | ≤30.00 | PASS |        |      |
|  |         |      |         | RU62 | 5.30   | ≤30.00 | PASS |        |      |
|  |         |      | 484Tone | RU65 | 7.67   | ≤30.00 | PASS |        |      |
|  |         |      | Ant2    | 5795 | 26Tone | RU0    | 4.40 | ≤30.00 | PASS |
|  |         |      |         |      |        | RU17   | 4.08 | ≤30.00 | PASS |
|  |         |      |         |      | 52Tone | RU37   | 5.03 | ≤30.00 | PASS |
|  | RU44    | 4.72 |         |      |        | ≤30.00 | PASS |        |      |
|  | 106Tone | RU53 |         |      | 5.65   | ≤30.00 | PASS |        |      |
|  |         | RU56 |         |      | 5.26   | ≤30.00 | PASS |        |      |
|  | 242Tone | RU61 |         |      | 6.51   | ≤30.00 | PASS |        |      |
|  |         | RU62 |         |      | 5.97   | ≤30.00 | PASS |        |      |
|  | 484Tone | RU65 |         |      | 8.16   | ≤30.00 | PASS |        |      |

|         |            |         |         |         |        |        |        |        |      |
|---------|------------|---------|---------|---------|--------|--------|--------|--------|------|
|         | total      | 5795    | 26Tone  | RU0     | 7.31   | ≤30.00 | PASS   |        |      |
|         |            |         |         | RU17    | 7.05   | ≤30.00 | PASS   |        |      |
|         |            |         | 52Tone  | RU37    | 7.75   | ≤30.00 | PASS   |        |      |
|         |            |         |         | RU44    | 7.53   | ≤30.00 | PASS   |        |      |
|         |            |         | 106Tone | RU53    | 8.45   | ≤30.00 | PASS   |        |      |
|         |            |         |         | RU56    | 8.03   | ≤30.00 | PASS   |        |      |
|         |            |         | 242Tone | RU61    | 9.21   | ≤30.00 | PASS   |        |      |
|         |            |         |         | RU62    | 8.66   | ≤30.00 | PASS   |        |      |
|         |            |         | 484Tone | RU65    | 10.93  | ≤30.00 | PASS   |        |      |
|         | 11AX80MIMO | Ant1    | 5210    | 26Tone  | RU0    | 4.11   | ≤23.98 | PASS   |      |
|         |            |         |         |         | RU36   | 3.76   | ≤23.98 | PASS   |      |
|         |            |         |         | 52Tone  | RU37   | 4.87   | ≤23.98 | PASS   |      |
|         |            |         |         |         | RU52   | 4.38   | ≤23.98 | PASS   |      |
|         |            |         |         | 106Tone | RU53   | 5.18   | ≤23.98 | PASS   |      |
|         |            |         |         |         | RU60   | 5.14   | ≤23.98 | PASS   |      |
|         |            |         |         | 242Tone | RU61   | 6.11   | ≤23.98 | PASS   |      |
|         |            |         |         |         | RU64   | 6.06   | ≤23.98 | PASS   |      |
|         |            |         |         | 484Tone | RU65   | 7.63   | ≤23.98 | PASS   |      |
| RU66    |            |         |         |         | 7.71   | ≤23.98 | PASS   |        |      |
| 996Tone |            |         |         | RU67    | 10.87  | ≤23.98 | PASS   |        |      |
| Ant2    |            |         |         | 5210    | 26Tone | RU0    | 4.00   | ≤23.98 | PASS |
|         |            |         |         |         |        | RU36   | 3.45   | ≤23.98 | PASS |
|         |            |         |         |         | 52Tone | RU37   | 4.68   | ≤23.98 | PASS |
|         |            | RU52    | 4.12    |         |        | ≤23.98 | PASS   |        |      |
|         |            | 106Tone | RU53    |         | 4.90   | ≤23.98 | PASS   |        |      |
|         |            |         | RU60    |         | 4.89   | ≤23.98 | PASS   |        |      |
|         |            | 242Tone | RU61    |         | 5.99   | ≤23.98 | PASS   |        |      |
|         |            |         | RU64    |         | 5.87   | ≤23.98 | PASS   |        |      |
|         |            | 484Tone | RU65    |         | 7.92   | ≤23.98 | PASS   |        |      |
|         |            |         | RU66    |         | 8.18   | ≤23.98 | PASS   |        |      |
|         |            | 996Tone | RU67    |         | 10.86  | ≤23.98 | PASS   |        |      |
|         |            | total   | 5210    |         | 26Tone | RU0    | 7.07   | ≤23.98 | PASS |
|         |            |         |         |         |        | RU36   | 6.62   | ≤23.98 | PASS |
|         |            |         |         |         | 52Tone | RU37   | 7.79   | ≤23.98 | PASS |
| RU52    |            |         |         | 7.26    |        | ≤23.98 | PASS   |        |      |
| 106Tone |            |         |         | RU53    | 8.05   | ≤23.98 | PASS   |        |      |
|         |            |         |         | RU60    | 8.03   | ≤23.98 | PASS   |        |      |
| 242Tone |            |         |         | RU61    | 9.06   | ≤23.98 | PASS   |        |      |
|         |            |         |         | RU64    | 8.98   | ≤23.98 | PASS   |        |      |
| 484Tone |            |         |         | RU65    | 10.79  | ≤23.98 | PASS   |        |      |
|         |            |         |         | RU66    | 10.96  | ≤23.98 | PASS   |        |      |
| 996Tone |            |         |         | RU67    | 13.88  | ≤23.98 | PASS   |        |      |
| Ant1    |            |         |         | 5775    | 26Tone | RU0    | 4.39   | ≤30.00 | PASS |
|         |            |         |         |         |        | RU36   | 4.27   | ≤30.00 | PASS |
|         |            |         |         |         | 52Tone | RU37   | 4.60   | ≤30.00 | PASS |
|         |            | RU52    | 4.55    |         |        | ≤30.00 | PASS   |        |      |
|         |            | 106Tone | RU53    |         | 5.18   | ≤30.00 | PASS   |        |      |
|         |            |         | RU60    |         | 5.05   | ≤30.00 | PASS   |        |      |
|         |            | 242Tone | RU61    |         | 5.79   | ≤30.00 | PASS   |        |      |
|         |            |         | RU64    |         | 5.82   | ≤30.00 | PASS   |        |      |
|         |            | 484Tone | RU65    |         | 6.80   | ≤30.00 | PASS   |        |      |
|         | RU66       |         | 6.86    |         | ≤30.00 | PASS   |        |        |      |
|         | 996Tone    | RU67    | 8.97    |         | ≤30.00 | PASS   |        |        |      |
|         | Ant2       | 5775    | 26Tone  |         | RU0    | 4.06   | ≤30.00 | PASS   |      |
|         |            |         |         |         | RU36   | 3.92   | ≤30.00 | PASS   |      |
|         |            |         | 52Tone  |         | RU37   | 4.62   | ≤30.00 | PASS   |      |
| RU52    |            |         |         | 4.49    | ≤30.00 | PASS   |        |        |      |
| 106Tone |            |         | RU53    | 5.17    | ≤30.00 | PASS   |        |        |      |

|  |       |      |         |      |       |        |      |
|--|-------|------|---------|------|-------|--------|------|
|  |       |      |         | RU60 | 5.01  | ≤30.00 | PASS |
|  |       |      | 242Tone | RU61 | 5.93  | ≤30.00 | PASS |
|  |       |      |         | RU64 | 5.96  | ≤30.00 | PASS |
|  |       |      |         | RU65 | 7.17  | ≤30.00 | PASS |
|  |       |      | 484Tone | RU66 | 7.09  | ≤30.00 | PASS |
|  |       |      |         | RU67 | 9.02  | ≤30.00 | PASS |
|  |       |      | 996Tone | RU67 | 9.02  | ≤30.00 | PASS |
|  |       |      |         | RU0  | 7.24  | ≤30.00 | PASS |
|  | total | 5775 | 26Tone  | RU36 | 7.11  | ≤30.00 | PASS |
|  |       |      |         | RU37 | 7.62  | ≤30.00 | PASS |
|  |       |      | 52Tone  | RU52 | 7.53  | ≤30.00 | PASS |
|  |       |      |         | RU53 | 8.19  | ≤30.00 | PASS |
|  |       |      | 106Tone | RU60 | 8.04  | ≤30.00 | PASS |
|  |       |      |         | RU61 | 8.87  | ≤30.00 | PASS |
|  |       |      | 242Tone | RU64 | 8.90  | ≤30.00 | PASS |
|  |       |      |         | RU65 | 10.00 | ≤30.00 | PASS |
|  |       |      | 484Tone | RU66 | 9.99  | ≤30.00 | PASS |
|  |       |      |         | RU67 | 12.01 | ≤30.00 | PASS |

Note: The Duty Cycle Factor is compensated in the graph.

**Appendix C: Maximum power spectral density****Test Result**

| Test Mode  | Antenna | Frequency[MHz] | Ru Size | Ru Index | Result [dBm/MHz] | Limit [dBm/MHz] | Verdict |
|------------|---------|----------------|---------|----------|------------------|-----------------|---------|
| 11AX20MIMO | Ant1    | 5180           | 26Tone  | RU0      | 5.52             | ≤11.00          | PASS    |
|            |         |                |         | RU8      | 4.64             | ≤11.00          | PASS    |
|            |         |                | 52Tone  | RU37     | 3.95             | ≤11.00          | PASS    |
|            |         |                |         | RU40     | 2.73             | ≤11.00          | PASS    |
|            |         |                | 106Tone | RU53     | 2.23             | ≤11.00          | PASS    |
|            |         |                |         | RU54     | 2.09             | ≤11.00          | PASS    |
|            |         |                | 242Tone | RU61     | 0.35             | ≤11.00          | PASS    |
|            | Ant2    | 5180           | 26Tone  | RU0      | 5.86             | ≤11.00          | PASS    |
|            |         |                |         | RU8      | 5.34             | ≤11.00          | PASS    |
|            |         |                | 52Tone  | RU37     | 4.58             | ≤11.00          | PASS    |
|            |         |                |         | RU40     | 3.2              | ≤11.00          | PASS    |
|            |         |                | 106Tone | RU53     | 2.46             | ≤11.00          | PASS    |
|            |         |                |         | RU54     | 2.46             | ≤11.00          | PASS    |
|            |         |                | 242Tone | RU61     | 0.89             | ≤11.00          | PASS    |
|            | total   | 5180           | 26Tone  | RU0      | 8.70             | ≤11.00          | PASS    |
|            |         |                |         | RU8      | 8.01             | ≤11.00          | PASS    |
|            |         |                | 52Tone  | RU37     | 7.29             | ≤11.00          | PASS    |
|            |         |                |         | RU40     | 5.98             | ≤11.00          | PASS    |
|            |         |                | 106Tone | RU53     | 5.36             | ≤11.00          | PASS    |
|            |         |                |         | RU54     | 5.29             | ≤11.00          | PASS    |
|            |         |                | 242Tone | RU61     | 3.64             | ≤11.00          | PASS    |
|            | Ant1    | 5200           | 26Tone  | RU0      | 4.82             | ≤11.00          | PASS    |
|            |         |                |         | RU8      | 5.07             | ≤11.00          | PASS    |
|            |         |                | 52Tone  | RU37     | 2.65             | ≤11.00          | PASS    |
|            |         |                |         | RU40     | 3.15             | ≤11.00          | PASS    |
|            |         |                | 106Tone | RU53     | 1.72             | ≤11.00          | PASS    |
|            |         |                |         | RU54     | 1.62             | ≤11.00          | PASS    |
|            |         |                | 242Tone | RU61     | -0.22            | ≤11.00          | PASS    |
|            | Ant2    | 5200           | 26Tone  | RU0      | 5.4              | ≤11.00          | PASS    |
|            |         |                |         | RU8      | 5.63             | ≤11.00          | PASS    |
|            |         |                | 52Tone  | RU37     | 3.26             | ≤11.00          | PASS    |
|            |         |                |         | RU40     | 3.46             | ≤11.00          | PASS    |
|            |         |                | 106Tone | RU53     | 1.91             | ≤11.00          | PASS    |
|            |         |                |         | RU54     | 2.03             | ≤11.00          | PASS    |
|            |         |                | 242Tone | RU61     | 0.32             | ≤11.00          | PASS    |
|            | total   | 5200           | 26Tone  | RU0      | 8.13             | ≤11.00          | PASS    |
|            |         |                |         | RU8      | 8.37             | ≤11.00          | PASS    |
|            |         |                | 52Tone  | RU37     | 5.98             | ≤11.00          | PASS    |
|            |         |                |         | RU40     | 6.32             | ≤11.00          | PASS    |
|            |         |                | 106Tone | RU53     | 4.83             | ≤11.00          | PASS    |
|            |         |                |         | RU54     | 4.84             | ≤11.00          | PASS    |
|            |         |                | 242Tone | RU61     | 3.07             | ≤11.00          | PASS    |
|            | Ant1    | 5240           | 26Tone  | RU0      | 4.29             | ≤11.00          | PASS    |
|            |         |                |         | RU8      | 4.54             | ≤11.00          | PASS    |
|            |         |                | 52Tone  | RU37     | 2.18             | ≤11.00          | PASS    |
|            |         |                |         | RU40     | 2.33             | ≤11.00          | PASS    |
|            |         |                | 106Tone | RU53     | 1.13             | ≤11.00          | PASS    |
|            |         |                |         | RU54     | 1.1              | ≤11.00          | PASS    |
|            |         |                | 242Tone | RU61     | -0.26            | ≤11.00          | PASS    |
|            | Ant2    | 5240           | 26Tone  | RU0      | 5.37             | ≤11.00          | PASS    |
|            |         |                |         | RU8      | 5.13             | ≤11.00          | PASS    |

|  |       |      |         |      |       |        |      |
|--|-------|------|---------|------|-------|--------|------|
|  |       |      | 52Tone  | RU37 | 2.84  | ≤11.00 | PASS |
|  |       |      |         | RU40 | 3.1   | ≤11.00 | PASS |
|  |       |      | 106Tone | RU53 | 1.57  | ≤11.00 | PASS |
|  |       |      |         | RU54 | 1.62  | ≤11.00 | PASS |
|  |       |      | 242Tone | RU61 | 0.11  | ≤11.00 | PASS |
|  | total | 5240 | 26Tone  | RU0  | 7.87  | ≤11.00 | PASS |
|  |       |      |         | RU8  | 7.86  | ≤11.00 | PASS |
|  |       |      | 52Tone  | RU37 | 5.53  | ≤11.00 | PASS |
|  |       |      |         | RU40 | 5.74  | ≤11.00 | PASS |
|  |       |      | 106Tone | RU53 | 4.37  | ≤11.00 | PASS |
|  |       |      |         | RU54 | 4.38  | ≤11.00 | PASS |
|  |       |      | 242Tone | RU61 | 2.94  | ≤11.00 | PASS |
|  | Ant1  | 5745 | 26Tone  | RU0  | 0.76  | ≤30.00 | PASS |
|  |       |      |         | RU8  | -0.1  | ≤30.00 | PASS |
|  |       |      | 52Tone  | RU37 | -2.24 | ≤30.00 | PASS |
|  |       |      |         | RU40 | -2.04 | ≤30.00 | PASS |
|  |       |      | 106Tone | RU53 | -4.15 | ≤30.00 | PASS |
|  |       |      |         | RU54 | -4.3  | ≤30.00 | PASS |
|  |       |      | 242Tone | RU61 | -6.15 | ≤30.00 | PASS |
|  | Ant2  | 5745 | 26Tone  | RU0  | 1.01  | ≤30.00 | PASS |
|  |       |      |         | RU8  | 0.34  | ≤30.00 | PASS |
|  |       |      | 52Tone  | RU37 | -1.53 | ≤30.00 | PASS |
|  |       |      |         | RU40 | -1.94 | ≤30.00 | PASS |
|  |       |      | 106Tone | RU53 | -3.85 | ≤30.00 | PASS |
|  |       |      |         | RU54 | -3.9  | ≤30.00 | PASS |
|  |       |      | 242Tone | RU61 | -5.46 | ≤30.00 | PASS |
|  | total | 5745 | 26Tone  | RU0  | 3.90  | ≤30.00 | PASS |
|  |       |      |         | RU8  | 3.14  | ≤30.00 | PASS |
|  |       |      | 52Tone  | RU37 | 1.14  | ≤30.00 | PASS |
|  |       |      |         | RU40 | 1.02  | ≤30.00 | PASS |
|  |       |      | 106Tone | RU53 | -0.99 | ≤30.00 | PASS |
|  |       |      |         | RU54 | -1.09 | ≤30.00 | PASS |
|  |       |      | 242Tone | RU61 | -2.78 | ≤30.00 | PASS |
|  | Ant1  | 5785 | 26Tone  | RU0  | 0.96  | ≤30.00 | PASS |
|  |       |      |         | RU8  | 0.07  | ≤30.00 | PASS |
|  |       |      | 52Tone  | RU37 | -1.53 | ≤30.00 | PASS |
|  |       |      |         | RU40 | -2.46 | ≤30.00 | PASS |
|  |       |      | 106Tone | RU53 | -3.77 | ≤30.00 | PASS |
|  |       |      |         | RU54 | -4.37 | ≤30.00 | PASS |
|  |       |      | 242Tone | RU61 | -6.05 | ≤30.00 | PASS |
|  | Ant2  | 5785 | 26Tone  | RU0  | 1.74  | ≤30.00 | PASS |
|  |       |      |         | RU8  | 0.69  | ≤30.00 | PASS |
|  |       |      | 52Tone  | RU37 | -1.07 | ≤30.00 | PASS |
|  |       |      |         | RU40 | -1.66 | ≤30.00 | PASS |
|  |       |      | 106Tone | RU53 | -3.16 | ≤30.00 | PASS |
|  |       |      |         | RU54 | -3.52 | ≤30.00 | PASS |
|  |       |      | 242Tone | RU61 | -5.41 | ≤30.00 | PASS |
|  | total | 5785 | 26Tone  | RU0  | 4.38  | ≤30.00 | PASS |
|  |       |      |         | RU8  | 3.40  | ≤30.00 | PASS |
|  |       |      | 52Tone  | RU37 | 1.72  | ≤30.00 | PASS |
|  |       |      |         | RU40 | 0.97  | ≤30.00 | PASS |
|  |       |      | 106Tone | RU53 | -0.44 | ≤30.00 | PASS |
|  |       |      |         | RU54 | -0.91 | ≤30.00 | PASS |
|  |       |      | 242Tone | RU61 | -2.71 | ≤30.00 | PASS |
|  | Ant1  | 5825 | 26Tone  | RU0  | -0.64 | ≤30.00 | PASS |
|  |       |      |         | RU8  | -0.93 | ≤30.00 | PASS |
|  |       |      | 52Tone  | RU37 | -2.57 | ≤30.00 | PASS |
|  |       |      |         | RU40 | -3.08 | ≤30.00 | PASS |

|            |       |      |         |      |       |        |      |
|------------|-------|------|---------|------|-------|--------|------|
|            | Ant2  | 5825 | 106Tone | RU53 | -5.05 | ≤30.00 | PASS |
|            |       |      |         | RU54 | -5.22 | ≤30.00 | PASS |
|            |       |      | 242Tone | RU61 | -7.91 | ≤30.00 | PASS |
|            |       |      | 26Tone  | RU0  | 0.74  | ≤30.00 | PASS |
|            |       |      |         | RU8  | 0.65  | ≤30.00 | PASS |
|            |       |      | 52Tone  | RU37 | -1.54 | ≤30.00 | PASS |
|            | total | 5825 |         | RU40 | -1.79 | ≤30.00 | PASS |
|            |       |      | 106Tone | RU53 | -3.65 | ≤30.00 | PASS |
|            |       |      |         | RU54 | -3.97 | ≤30.00 | PASS |
|            |       |      | 242Tone | RU61 | -6.49 | ≤30.00 | PASS |
|            |       |      | 26Tone  | RU0  | 3.11  | ≤30.00 | PASS |
|            |       |      |         | RU8  | 2.94  | ≤30.00 | PASS |
|            |       |      | 52Tone  | RU37 | 0.99  | ≤30.00 | PASS |
|            |       |      |         | RU40 | 0.62  | ≤30.00 | PASS |
|            |       |      | 106Tone | RU53 | -1.28 | ≤30.00 | PASS |
|            |       |      |         | RU54 | -1.54 | ≤30.00 | PASS |
|            |       |      | 242Tone | RU61 | -4.13 | ≤30.00 | PASS |
| 11AX40MIMO | Ant1  | 5190 | 26Tone  | RU0  | 2.01  | ≤11.00 | PASS |
|            |       |      |         | RU17 | 1.85  | ≤11.00 | PASS |
|            |       |      | 52Tone  | RU37 | 0.75  | ≤11.00 | PASS |
|            |       |      |         | RU44 | 0.01  | ≤11.00 | PASS |
|            |       |      | 106Tone | RU53 | -1.71 | ≤11.00 | PASS |
|            |       |      |         | RU56 | -1.99 | ≤11.00 | PASS |
|            | Ant2  | 5190 | 242Tone | RU61 | -3.61 | ≤11.00 | PASS |
|            |       |      |         | RU62 | -3.71 | ≤11.00 | PASS |
|            |       |      | 484Tone | RU65 | -2.34 | ≤11.00 | PASS |
|            |       |      | 26Tone  | RU0  | 2.69  | ≤11.00 | PASS |
|            |       |      |         | RU17 | 2.12  | ≤11.00 | PASS |
|            |       |      | 52Tone  | RU37 | 0.78  | ≤11.00 | PASS |
|            | total | 5190 |         | RU44 | 0.13  | ≤11.00 | PASS |
|            |       |      | 106Tone | RU53 | -1.32 | ≤11.00 | PASS |
|            |       |      |         | RU56 | -1.83 | ≤11.00 | PASS |
|            |       |      | 242Tone | RU61 | -3.48 | ≤11.00 | PASS |
|            |       |      |         | RU62 | -3.72 | ≤11.00 | PASS |
|            |       |      | 484Tone | RU65 | -1.99 | ≤11.00 | PASS |
|            | Ant1  | 5230 | 26Tone  | RU0  | 5.37  | ≤11.00 | PASS |
|            |       |      |         | RU17 | 5.00  | ≤11.00 | PASS |
|            |       |      | 52Tone  | RU37 | 3.78  | ≤11.00 | PASS |
|            |       |      |         | RU44 | 3.08  | ≤11.00 | PASS |
|            |       |      | 106Tone | RU53 | 1.50  | ≤11.00 | PASS |
|            |       |      |         | RU56 | 1.10  | ≤11.00 | PASS |
|            | Ant2  | 5230 | 242Tone | RU61 | -0.53 | ≤11.00 | PASS |
|            |       |      |         | RU62 | -0.70 | ≤11.00 | PASS |
|            |       |      | 484Tone | RU65 | 0.85  | ≤11.00 | PASS |
|            |       |      | 26Tone  | RU0  | 1.73  | ≤11.00 | PASS |
|            |       |      |         | RU17 | 1.47  | ≤11.00 | PASS |
|            |       |      | 52Tone  | RU37 | -0.23 | ≤11.00 | PASS |
|            | total | 5230 |         | RU44 | -0.41 | ≤11.00 | PASS |
|            |       |      | 106Tone | RU53 | -2.11 | ≤11.00 | PASS |
|            |       |      |         | RU56 | -2.5  | ≤11.00 | PASS |
|            |       |      | 242Tone | RU61 | -4.05 | ≤11.00 | PASS |
|            |       |      |         | RU62 | -4.42 | ≤11.00 | PASS |
|            |       |      | 484Tone | RU65 | -2.29 | ≤11.00 | PASS |
|            | Ant2  | 5230 | 26Tone  | RU0  | 1.92  | ≤11.00 | PASS |
|            |       |      |         | RU17 | 1.81  | ≤11.00 | PASS |
|            |       |      | 52Tone  | RU37 | 0.14  | ≤11.00 | PASS |
|            |       |      |         | RU44 | -0.08 | ≤11.00 | PASS |
|            | total | 5230 | 106Tone | RU53 | -1.92 | ≤11.00 | PASS |
|            |       |      |         | RU56 | -1.92 | ≤11.00 | PASS |

|       |      |         |         |      |       |        |      |
|-------|------|---------|---------|------|-------|--------|------|
|       |      |         |         | RU56 | -2.35 | ≤11.00 | PASS |
|       |      |         | 242Tone | RU61 | -3.72 | ≤11.00 | PASS |
|       |      |         |         | RU62 | -3.91 | ≤11.00 | PASS |
|       |      |         | 484Tone | RU65 | -2.1  | ≤11.00 | PASS |
| total | 5230 | 26Tone  |         | RU0  | 4.84  | ≤11.00 | PASS |
|       |      |         |         | RU17 | 4.65  | ≤11.00 | PASS |
|       |      | 52Tone  |         | RU37 | 2.97  | ≤11.00 | PASS |
|       |      |         |         | RU44 | 2.77  | ≤11.00 | PASS |
|       |      | 106Tone |         | RU53 | 1.00  | ≤11.00 | PASS |
|       |      |         |         | RU56 | 0.59  | ≤11.00 | PASS |
|       |      | 242Tone |         | RU61 | -0.87 | ≤11.00 | PASS |
|       |      |         |         | RU62 | -1.15 | ≤11.00 | PASS |
|       |      | 484Tone |         | RU65 | 0.82  | ≤11.00 | PASS |
| Ant1  | 5755 | 26Tone  |         | RU0  | -0.82 | ≤30.00 | PASS |
|       |      |         |         | RU17 | -1.27 | ≤30.00 | PASS |
|       |      | 52Tone  |         | RU37 | -3.69 | ≤30.00 | PASS |
|       |      |         |         | RU44 | -3.94 | ≤30.00 | PASS |
|       |      | 106Tone |         | RU53 | -6.31 | ≤30.00 | PASS |
|       |      |         |         | RU56 | -6.05 | ≤30.00 | PASS |
|       |      | 242Tone |         | RU61 | -8.5  | ≤30.00 | PASS |
|       |      |         |         | RU62 | -8.57 | ≤30.00 | PASS |
|       |      | 484Tone |         | RU65 | -8.42 | ≤30.00 | PASS |
| Ant2  | 5755 | 26Tone  |         | RU0  | -0.82 | ≤30.00 | PASS |
|       |      |         |         | RU17 | -1.22 | ≤30.00 | PASS |
|       |      | 52Tone  |         | RU37 | -3.55 | ≤30.00 | PASS |
|       |      |         |         | RU44 | -3.5  | ≤30.00 | PASS |
|       |      | 106Tone |         | RU53 | -6.06 | ≤30.00 | PASS |
|       |      |         |         | RU56 | -5.98 | ≤30.00 | PASS |
|       |      | 242Tone |         | RU61 | -8.1  | ≤30.00 | PASS |
|       |      |         |         | RU62 | -8.61 | ≤30.00 | PASS |
|       |      | 484Tone |         | RU65 | -7.94 | ≤30.00 | PASS |
| total | 5755 | 26Tone  |         | RU0  | 2.19  | ≤30.00 | PASS |
|       |      |         |         | RU17 | 1.77  | ≤30.00 | PASS |
|       |      | 52Tone  |         | RU37 | -0.61 | ≤30.00 | PASS |
|       |      |         |         | RU44 | -0.70 | ≤30.00 | PASS |
|       |      | 106Tone |         | RU53 | -3.17 | ≤30.00 | PASS |
|       |      |         |         | RU56 | -3.00 | ≤30.00 | PASS |
|       |      | 242Tone |         | RU61 | -5.29 | ≤30.00 | PASS |
|       |      |         |         | RU62 | -5.58 | ≤30.00 | PASS |
|       |      | 484Tone |         | RU65 | -5.16 | ≤30.00 | PASS |
| Ant1  | 5795 | 26Tone  |         | RU0  | -1.27 | ≤30.00 | PASS |
|       |      |         |         | RU17 | -1.36 | ≤30.00 | PASS |
|       |      | 52Tone  |         | RU37 | -3.96 | ≤30.00 | PASS |
|       |      |         |         | RU44 | -4.18 | ≤30.00 | PASS |
|       |      | 106Tone |         | RU53 | -6.13 | ≤30.00 | PASS |
|       |      |         |         | RU56 | -6.56 | ≤30.00 | PASS |
|       |      | 242Tone |         | RU61 | -8.74 | ≤30.00 | PASS |
|       |      |         |         | RU62 | -9.26 | ≤30.00 | PASS |
|       |      | 484Tone |         | RU65 | -8.47 | ≤30.00 | PASS |
| Ant2  | 5795 | 26Tone  |         | RU0  | -0.97 | ≤30.00 | PASS |
|       |      |         |         | RU17 | -1.31 | ≤30.00 | PASS |
|       |      | 52Tone  |         | RU37 | -3.45 | ≤30.00 | PASS |
|       |      |         |         | RU44 | -3.71 | ≤30.00 | PASS |
|       |      | 106Tone |         | RU53 | -5.75 | ≤30.00 | PASS |
|       |      |         |         | RU56 | -5.57 | ≤30.00 | PASS |
|       |      | 242Tone |         | RU61 | -8.4  | ≤30.00 | PASS |
|       |      |         |         | RU62 | -8.73 | ≤30.00 | PASS |
|       |      | 484Tone |         | RU65 | -8.07 | ≤30.00 | PASS |

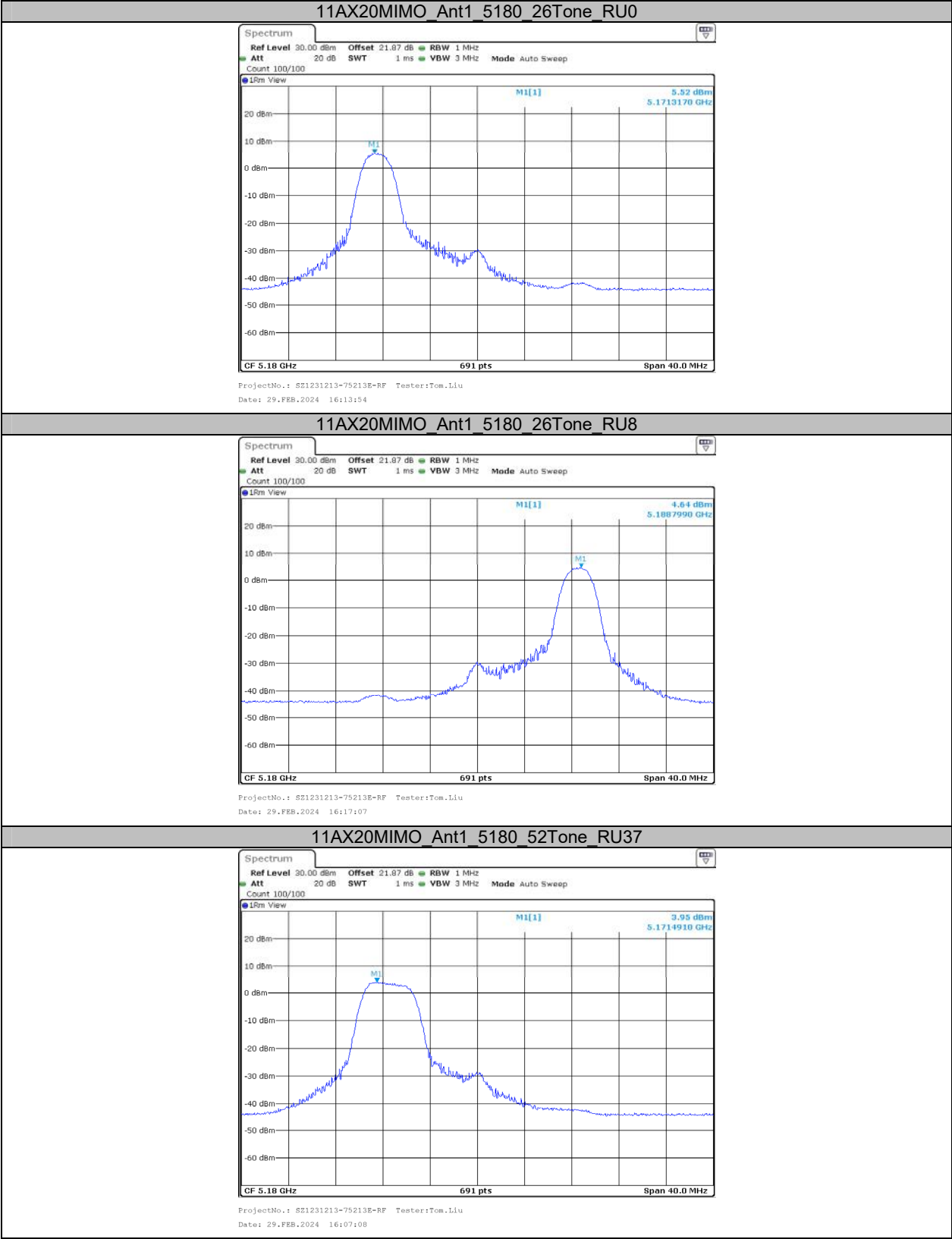
|            |       |      |         |      |        |        |      |
|------------|-------|------|---------|------|--------|--------|------|
|            | total | 5795 | 26Tone  | RU0  | 1.89   | ≤30.00 | PASS |
|            |       |      |         | RU17 | 1.68   | ≤30.00 | PASS |
|            |       |      | 52Tone  | RU37 | -0.69  | ≤30.00 | PASS |
|            |       |      |         | RU44 | -0.93  | ≤30.00 | PASS |
|            |       |      | 106Tone | RU53 | -2.93  | ≤30.00 | PASS |
|            |       |      |         | RU56 | -3.03  | ≤30.00 | PASS |
|            | Ant1  | 5210 | 242Tone | RU61 | -5.56  | ≤30.00 | PASS |
|            |       |      |         | RU62 | -5.98  | ≤30.00 | PASS |
|            |       |      | 484Tone | RU65 | -5.26  | ≤30.00 | PASS |
|            |       |      |         | RU66 | -5.26  | ≤30.00 | PASS |
|            |       |      | 996Tone | RU67 | -7.2   | ≤11.00 | PASS |
|            |       |      |         | RU68 | -7.2   | ≤11.00 | PASS |
| 11AX80MIMO | Ant2  | 5210 | 26Tone  | RU0  | 1.17   | ≤11.00 | PASS |
|            |       |      |         | RU36 | 1.14   | ≤11.00 | PASS |
|            |       |      | 52Tone  | RU37 | -0.62  | ≤11.00 | PASS |
|            |       |      |         | RU52 | -1.23  | ≤11.00 | PASS |
|            |       |      | 106Tone | RU53 | -3.4   | ≤11.00 | PASS |
|            |       |      |         | RU60 | -3.3   | ≤11.00 | PASS |
|            | total | 5210 | 242Tone | RU61 | -5.68  | ≤11.00 | PASS |
|            |       |      |         | RU64 | -5.86  | ≤11.00 | PASS |
|            |       |      | 484Tone | RU65 | -6.72  | ≤11.00 | PASS |
|            |       |      |         | RU66 | -7.18  | ≤11.00 | PASS |
|            |       |      | 996Tone | RU67 | -6.93  | ≤11.00 | PASS |
|            |       |      |         | RU68 | -6.93  | ≤11.00 | PASS |
|            | Ant1  | 5775 | 26Tone  | RU0  | 1.14   | ≤11.00 | PASS |
|            |       |      |         | RU36 | 0.47   | ≤11.00 | PASS |
|            |       |      | 52Tone  | RU37 | -0.8   | ≤11.00 | PASS |
|            |       |      |         | RU52 | -1.46  | ≤11.00 | PASS |
|            |       |      | 106Tone | RU53 | -3.61  | ≤11.00 | PASS |
|            |       |      |         | RU60 | -3.64  | ≤11.00 | PASS |
|            | Ant2  | 5775 | 242Tone | RU61 | -6.06  | ≤11.00 | PASS |
|            |       |      |         | RU64 | -6.22  | ≤11.00 | PASS |
|            |       |      | 484Tone | RU65 | -6.68  | ≤11.00 | PASS |
|            |       |      |         | RU66 | -6.59  | ≤11.00 | PASS |
|            |       |      | 996Tone | RU67 | -6.93  | ≤11.00 | PASS |
|            |       |      |         | RU68 | -6.93  | ≤11.00 | PASS |
|            | total | 5210 | 26Tone  | RU0  | 4.17   | ≤11.00 | PASS |
|            |       |      |         | RU36 | 3.83   | ≤11.00 | PASS |
|            |       |      | 52Tone  | RU37 | 2.30   | ≤11.00 | PASS |
|            |       |      |         | RU52 | 1.67   | ≤11.00 | PASS |
|            |       |      | 106Tone | RU53 | -0.49  | ≤11.00 | PASS |
|            |       |      |         | RU60 | -0.46  | ≤11.00 | PASS |
|            | Ant1  | 5775 | 242Tone | RU61 | -2.86  | ≤11.00 | PASS |
|            |       |      |         | RU64 | -3.03  | ≤11.00 | PASS |
|            |       |      | 484Tone | RU65 | -3.69  | ≤11.00 | PASS |
|            |       |      |         | RU66 | -3.86  | ≤11.00 | PASS |
|            |       |      | 996Tone | RU67 | -4.05  | ≤11.00 | PASS |
|            |       |      |         | RU68 | -4.05  | ≤11.00 | PASS |
|            | Ant2  | 5775 | 26Tone  | RU0  | -1.3   | ≤30.00 | PASS |
|            |       |      |         | RU36 | -0.93  | ≤30.00 | PASS |
|            |       |      | 52Tone  | RU37 | -3.77  | ≤30.00 | PASS |
|            |       |      |         | RU52 | -3.79  | ≤30.00 | PASS |
|            |       |      | 106Tone | RU53 | -6.34  | ≤30.00 | PASS |
|            |       |      |         | RU60 | -6.29  | ≤30.00 | PASS |
|            | Ant1  | 5775 | 242Tone | RU61 | -8.85  | ≤30.00 | PASS |
|            |       |      |         | RU64 | -8.8   | ≤30.00 | PASS |
|            |       |      | 484Tone | RU65 | -10.25 | ≤30.00 | PASS |
|            |       |      |         | RU66 | -10.47 | ≤30.00 | PASS |
|            |       |      | 996Tone | RU67 | -11.85 | ≤30.00 | PASS |
|            |       |      |         | RU68 | -11.85 | ≤30.00 | PASS |
|            | Ant2  | 5775 | 26Tone  | RU0  | -1.46  | ≤30.00 | PASS |
|            |       |      |         | RU36 | -1.52  | ≤30.00 | PASS |
|            |       |      | 52Tone  | RU37 | -4.02  | ≤30.00 | PASS |
|            |       |      |         | RU52 | -3.94  | ≤30.00 | PASS |
|            |       |      | 106Tone | RU53 | -6.34  | ≤30.00 | PASS |
|            |       |      |         | RU60 | -6.34  | ≤30.00 | PASS |

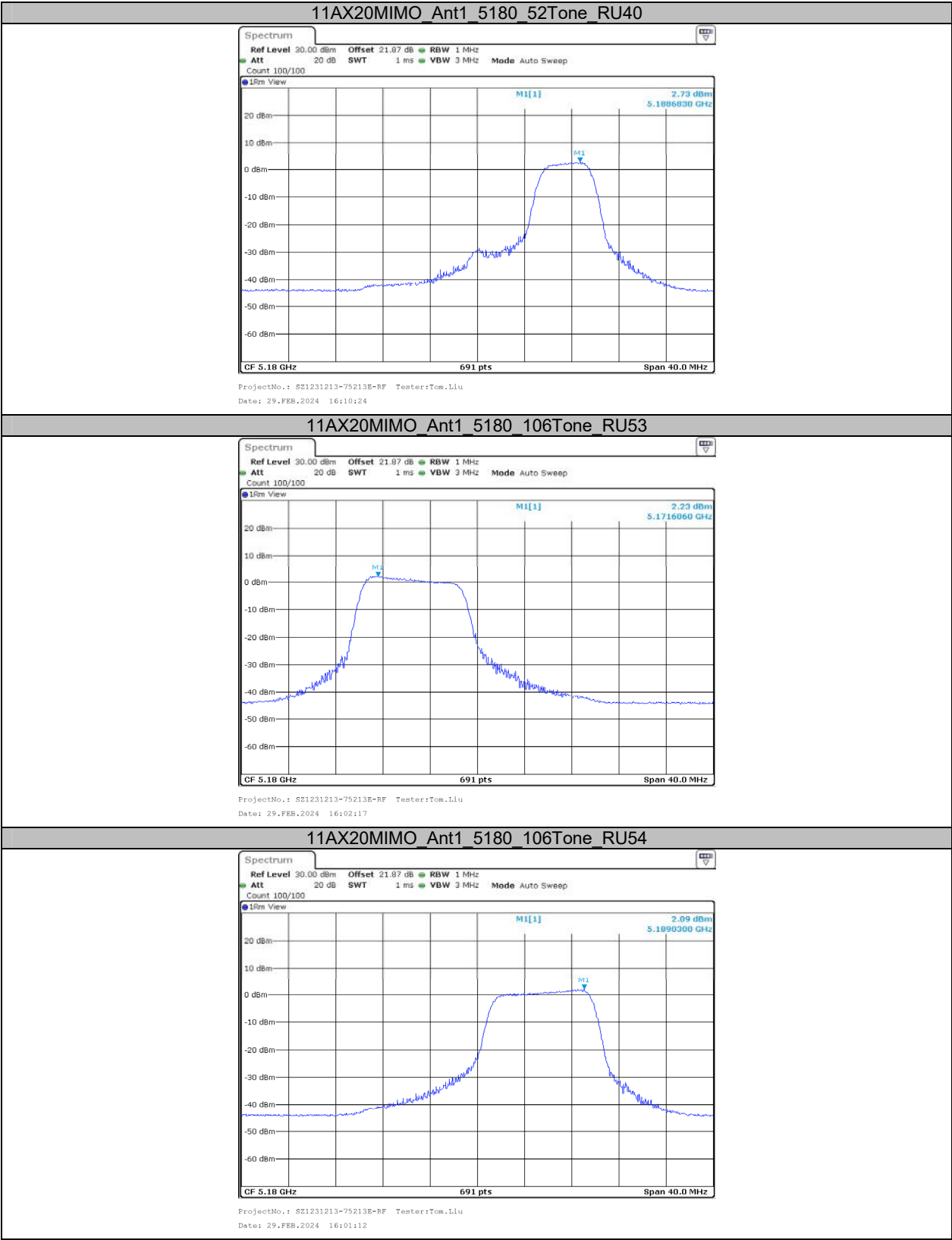
|  |       |      |         |      |        |        |      |
|--|-------|------|---------|------|--------|--------|------|
|  |       |      |         | RU60 | -6.4   | ≤30.00 | PASS |
|  |       |      | 242Tone | RU61 | -8.84  | ≤30.00 | PASS |
|  |       |      |         | RU64 | -8.96  | ≤30.00 | PASS |
|  |       |      | 484Tone | RU65 | -10.59 | ≤30.00 | PASS |
|  |       |      |         | RU66 | -10.55 | ≤30.00 | PASS |
|  |       |      | 996Tone | RU67 | -11.44 | ≤30.00 | PASS |
|  | total | 5775 | 26Tone  | RU0  | 1.63   | ≤30.00 | PASS |
|  |       |      |         | RU36 | 1.80   | ≤30.00 | PASS |
|  |       |      | 52Tone  | RU37 | -0.88  | ≤30.00 | PASS |
|  |       |      |         | RU52 | -0.85  | ≤30.00 | PASS |
|  |       |      | 106Tone | RU53 | -3.33  | ≤30.00 | PASS |
|  |       |      |         | RU60 | -3.33  | ≤30.00 | PASS |
|  |       |      | 242Tone | RU61 | -5.83  | ≤30.00 | PASS |
|  |       |      |         | RU64 | -5.87  | ≤30.00 | PASS |
|  |       |      | 484Tone | RU65 | -7.41  | ≤30.00 | PASS |
|  |       |      |         | RU66 | -7.50  | ≤30.00 | PASS |
|  |       |      | 996Tone | RU67 | -8.63  | ≤30.00 | PASS |

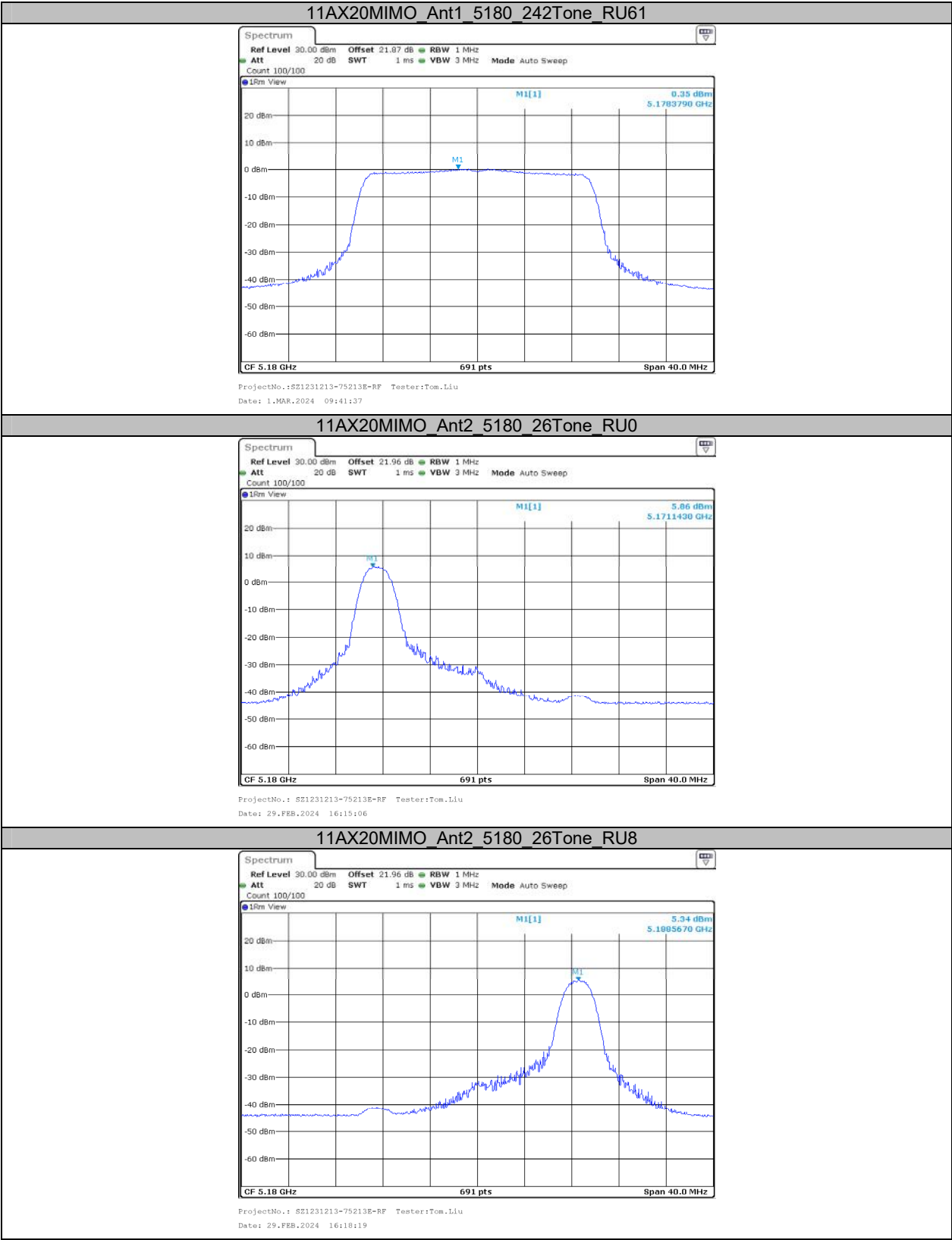
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

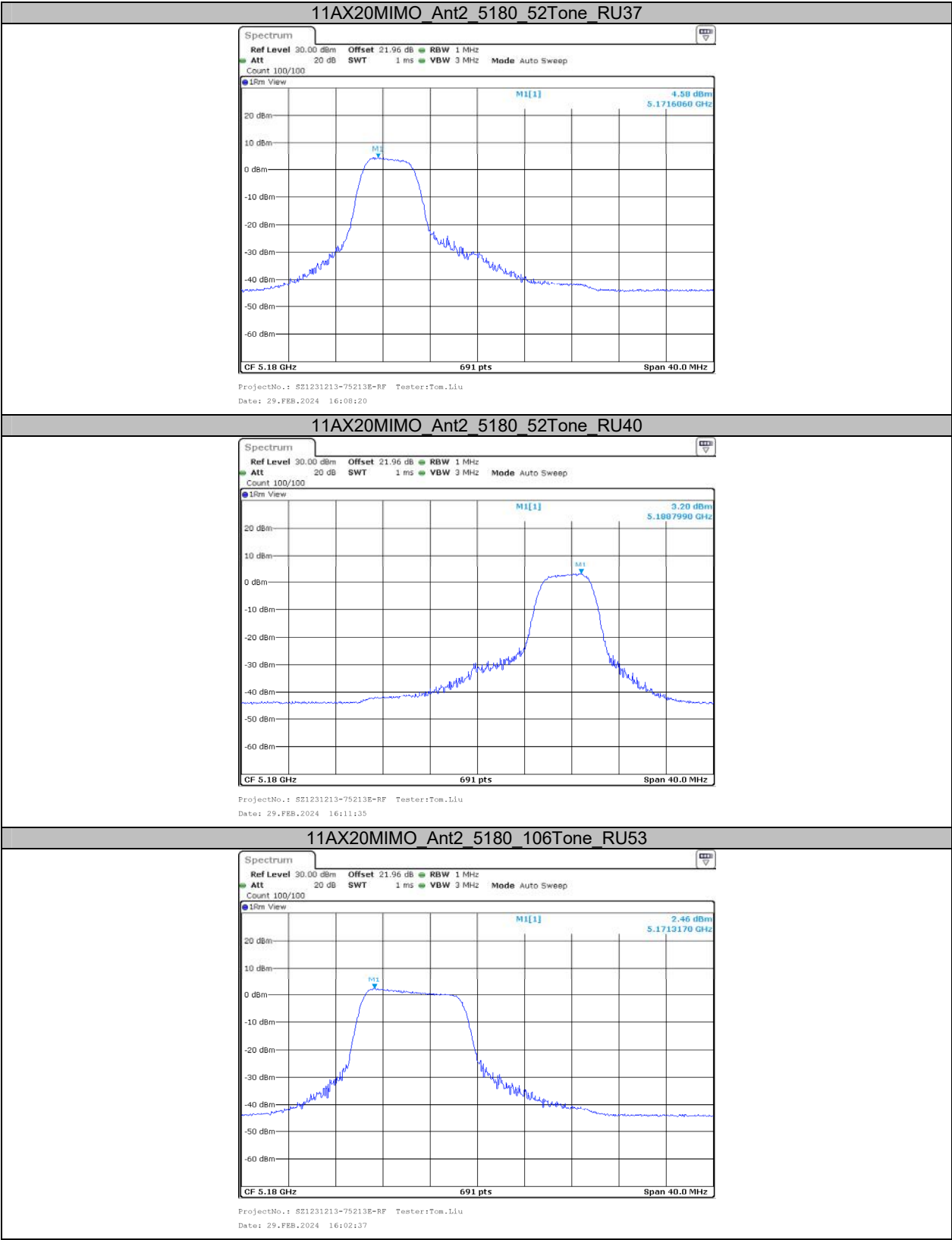
2.The Duty Cycle Factor is compensated in the graph.

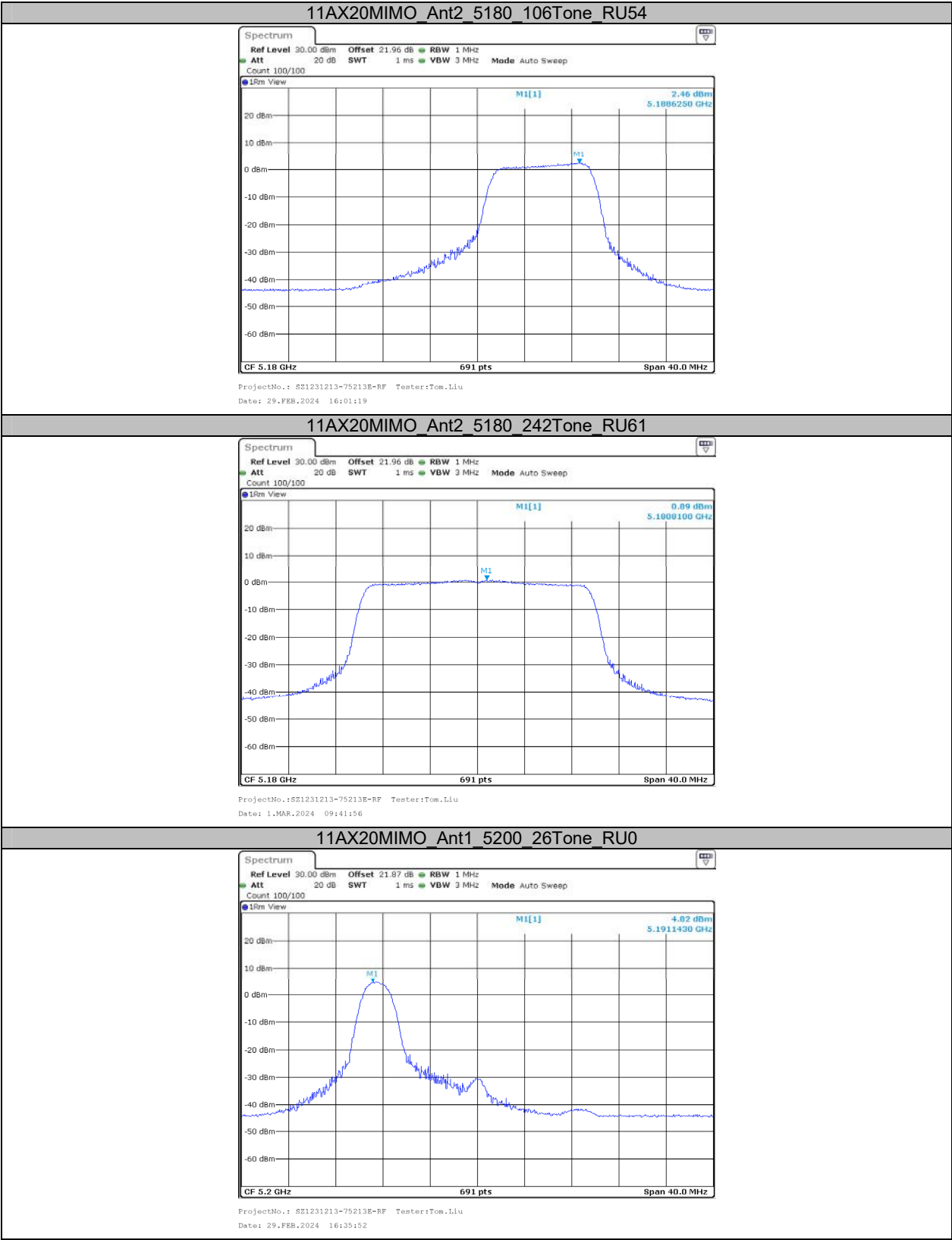
Test Graphs

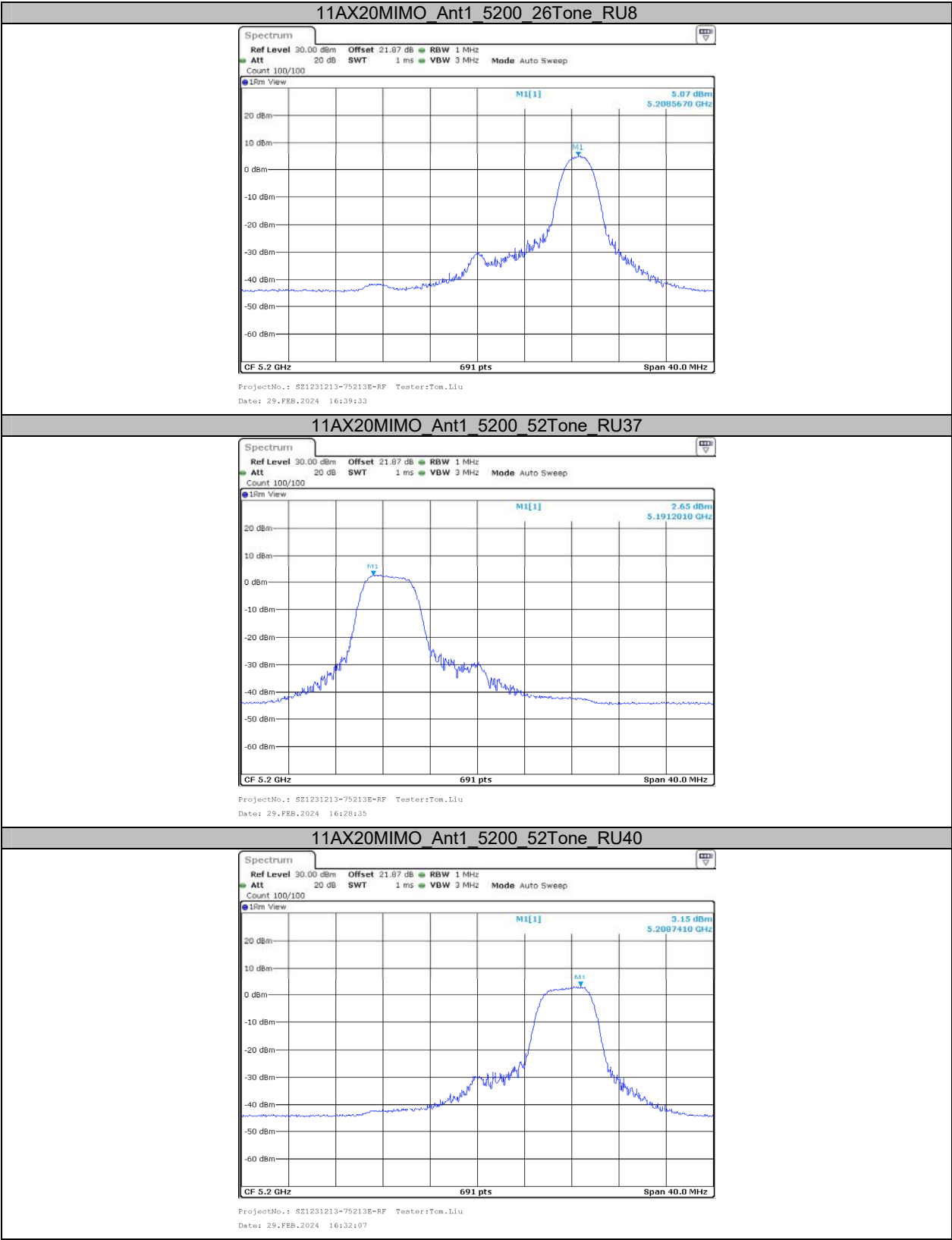


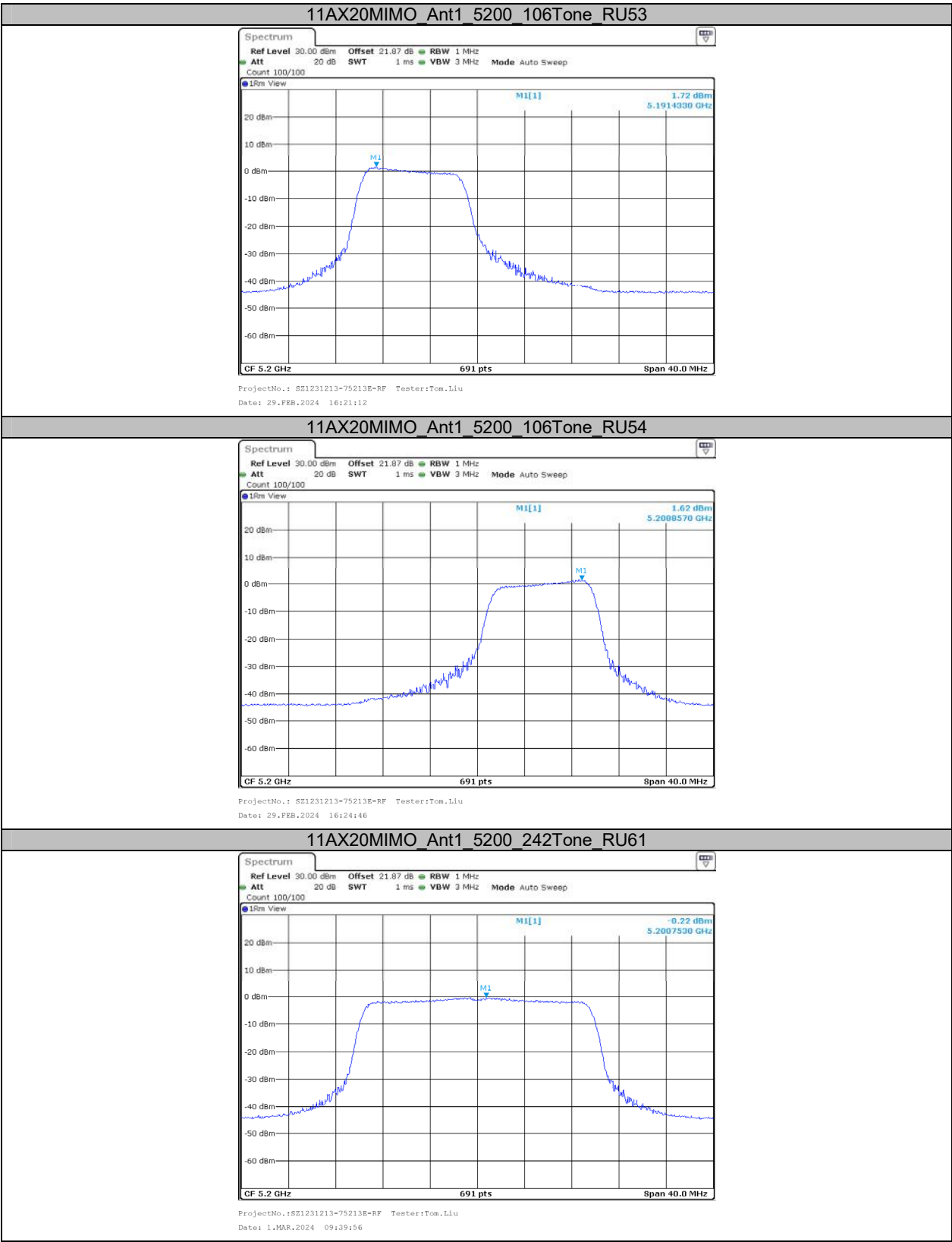


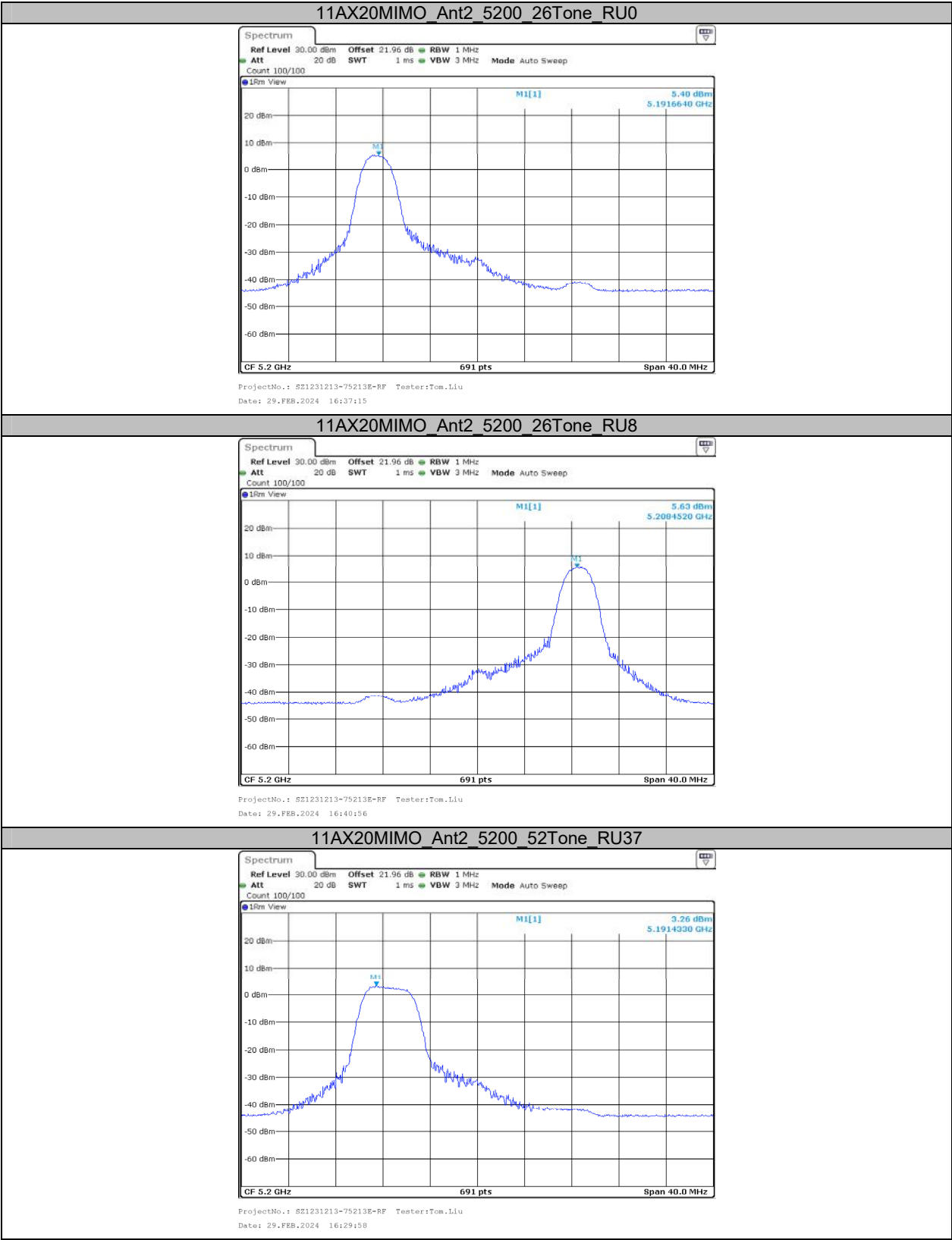




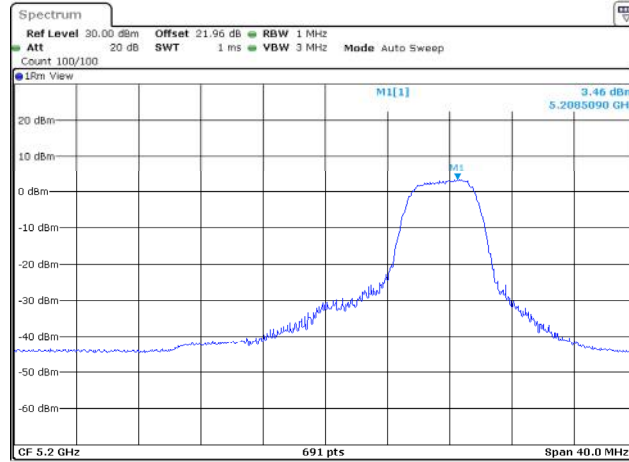






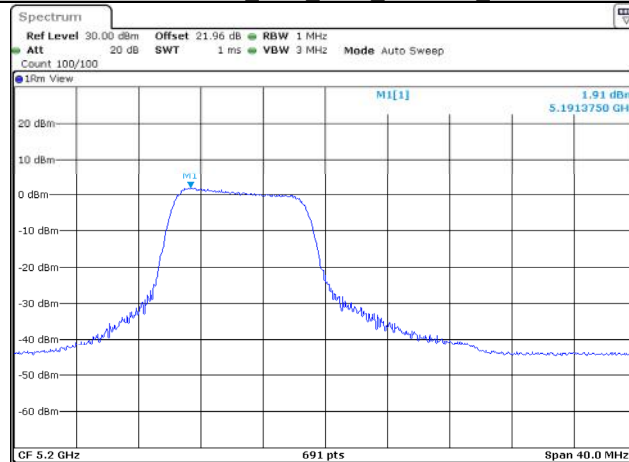


## 11AX20MIMO\_Ant2\_5200\_52Tone\_RU40



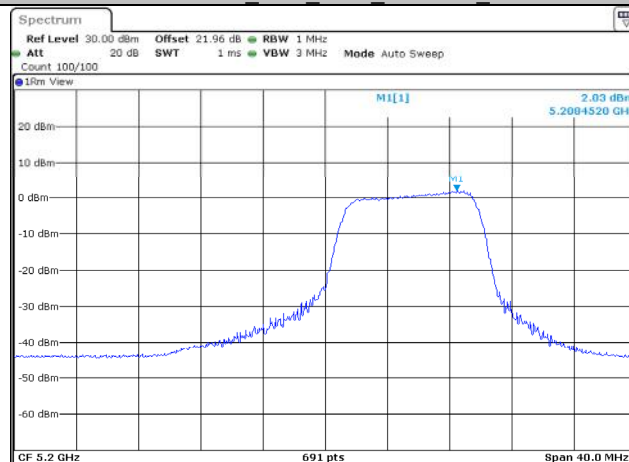
ProjectNo.: SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 29.FEB.2024 16:33:30

## 11AX20MIMO\_Ant2\_5200\_106Tone\_RU53



ProjectNo.: SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 29.FEB.2024 16:22:35

## 11AX20MIMO\_Ant2\_5200\_106Tone\_RU54



ProjectNo.: SZ1231213-75213E-RF Tester:Tom.Liu  
Date: 29.FEB.2024 16:26:09

