# ETSI EN 301 893 V2.2.1 (2024-11)

TEST REPORT

For

## Renesas Design Korea Inc.

7th SiliconPark, 35 Pangyo-ro 255 beon-gil Bundang-gu, Seongnam-si, Gyeonggi-do, 13486 Republic of Korea

**Tested Model: RRQ61051-008**

| **Report Type:** | **Product Type:** |
|---|---|
| Original Report | RRQ61051 Module |

| | |
|---|---|
| **Report Number:** | 2602P42652E-22C |
| **Report Date:** | 2026/3/11 |
| **Reviewed By:** | Ivy Tang<br>Project Engineer |
| **Approved By:** | Rocky Xiao<br>RF Supervisor |
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# DOCUMENT REVISION HISTORY

| Revision Number | Report Number | Description of Revision | Date of Revision |
|---|---|---|---|
| 1.0 | 2602P42652E-22C | Original Report | 2026/3/11 |

# GENERAL INFORMATION

## Product Description for Equipment under Test (EUT)

| | |
|---|---|
| **Product Name:** | RRQ61051 Module |
| **EUT Model:** | RRQ61051-008 |
| **Rated Input Voltage:** | 1.8~3.6Vdc (Typical:3.3Vdc) |
| **Serial Number:** | 3GDB-2 (For RF Conducted Test: RRQ61051-008)<br>3GDB-1 (For Radiated Test: RRQ61051-008) |
| **EUT Received Date:** | 2026/1/20 |
| **EUT Received Status:** | Good |

## Technical Specification

| | | |
|---|---|---|
| **Operation Frequency Range (MHz):** | | 802.11 a/n20/ac20/ax20: 5180-5240, 5260-5320, 5500-5700 |
| **RF Output Power (EIRP) (dBm):** | | 5.2G: 20.296<br>5.3G: 20.310<br>5.6G: 18.992 |
| **Number of Chains** | **Transmit:** | 1 |
| | **Receive:** | 1 |
| **Antenna Gain (dBi)_5.2G▲:** | | 3.4 |
| **Antenna Gain (dBi)_5.3G▲:** | | 3.4 |
| **Antenna Gain (dBi)_5.6G▲:** | | 3.4 |
| **Modulation Type:** | | OFDM, OFDMA |

*Note:*
*1. The manufacturer declares that the 802.11 ax HE mode only supports full RU and doesn't support partial RU.*
*2. The manufacturer declares that the EUT is a secondary device (client device), without radar detection but with TPC function.*

## Objective

This report is prepared on behalf of ***Renesas Design Korea Inc.*** in accordance with ETSI EN 301 893 V2.2.1 (2024-11), 5 GHz WAS/RLAN; Harmonised Standard for access to radio spectrum.

The objective is to determine the compliance of EUT with: ETSI EN 301 893 V2.2.1 (2024-11).

## Test Methodology

All measurements contained in this report were conducted with ETSI EN 301 893 V2.2.1 (2024-11), 5 GHz WAS/RLAN;Harmonised Standard for access to radio spectrum.

## Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

## Measurement Uncertainty

| Parameter | $F_{lab}$ | Maximum allow uncertainty |
|---|---|---|
| RF Frequency | $\pm 0.076\times10^{-6}$ | $\pm 1\times10^{-5}$ |
| RF power conducted | ±0.55dB | ±1,5dB |
| RF power radiated | ±5.19dB | ±6dB |
| Spurious emissions, conducted | ±2.47dB | ±3dB |
| Spurious emissions, radiated | 30MHz~1GHz: ±5.12 dB,<br>1GHz~18GHz: ±5.61 dB | ±6dB |
| Temperature | ±1℃ | ±2℃ |
| Humidity | ±5% | ±5% |
| Time | 1% | ±10% |

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

## Declarations

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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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Each test item follows the test standard(s) without deviation.

# SYSTEM TEST CONFIGURATION

## Description of Test Configuration

The system was configured for testing in engineering mode, which was provided by manufacture. The system support 802.11a/n ht20/ac vht20/ax he20.

For 5150~5250 MHz band (W52), 4 channels were provided. 802.11a /n ht20/ac vht20/ax he20 mode was tested with 5180MHz and 5240MHz:

| Frequency (MHz) | Frequency (MHz) |
|---|---|
| 5180 | 5220 |
| 5200 | 5240 |

For 5250~5350 MHz band(W53), 4 channels are provided, 802.11a /n ht20/ac vht20/ax he20 mode was tested with 5260MHz and 5320MHz:

| Frequency (MHz) | Frequency (MHz) |
|---|---|
| 5260 | 5300 |
| 5280 | 5320 |

For 5470~5725 MHz band(W56), 11 channels are provided , 802.11a /n ht20/ac vht20/ax he20 mode was tested with 5500MHz and 5700MHz:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---|---|---|---|
| 100 | 5500 | 124 | 5620 |
| 104 | 5520 | 128 | 5640 |
| 108 | 5540 | 132 | 5660 |
| 112 | 5560 | 136 | 5680 |
| 116 | 5580 | 140 | 5700 |
| 120 | 5600 | / | / |

Test condition as below:
NT: Normal Temperature 25℃, LT: Low Temperature -40℃, HT: High Temperature +85℃

## EUT Exercise Software

Software "Tera Term 5▲" was used and the power level was configured as below. The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the average power and PSD across all data rates, bandwidths, and modulations▲.

| Band | Mode | Frequency (MHz) | Data rate (Mbps) | Power level (TPC_H) | Power level (TPC_L) |
|---|---|---|---|---|---|
| Band 1: 5150-5250 | 802.11 a | 5180 | 6 Mbps | 13 | / |
| | | 5240 | 6 Mbps | 12 | / |
| | 802.11 n20 | 5180 | HT MCS0 | 13 | / |
| | | 5240 | HT MCS0 | 13 | / |
| | 802.11 ac20 | 5180 | VHT MCS0 | 12 | / |
| | | 5240 | VHT MCS0 | 12 | / |
| | 802.11 ax20 | 5180 | HE MCS0 | 12 | / |
| | | 5240 | HE MCS0 | 12 | / |
| Band 2: 5250-5350 | 802.11 a | 5260 | 6 Mbps | 13 | 6 |
| | | 5320 | 6 Mbps | 12 | 5 |
| | 802.11 n20 | 5260 | HT MCS0 | 13 | 6 |
| | | 5320 | HT MCS0 | 12 | 5 |
| | 802.11 ac20 | 5260 | VHT MCS0 | 12 | 5 |
| | | 5320 | VHT MCS0 | 12 | 5 |
| | 802.11 ax20 | 5260 | HE MCS0 | 12 | 5 |
| | | 5320 | HE MCS0 | 12 | 5 |
| Band 3: 5470-5725 | 802.11 a | 5500 | 6 Mbps | 12 | 5 |
| | | 5700 | 6 Mbps | 12 | 5 |
| | 802.11 n20 | 5500 | HT MCS0 | 13 | 6 |
| | | 5700 | HT MCS0 | 13 | 6 |
| | 802.11 ac20 | 5500 | VHT MCS0 | 12 | 5 |
| | | 5700 | VHT MCS0 | 12 | 5 |
| | 802.11 ax20 | 5500 | HE MCS0 | 12 | 5 |
| | | 5700 | HE MCS0 | 12 | 5 |

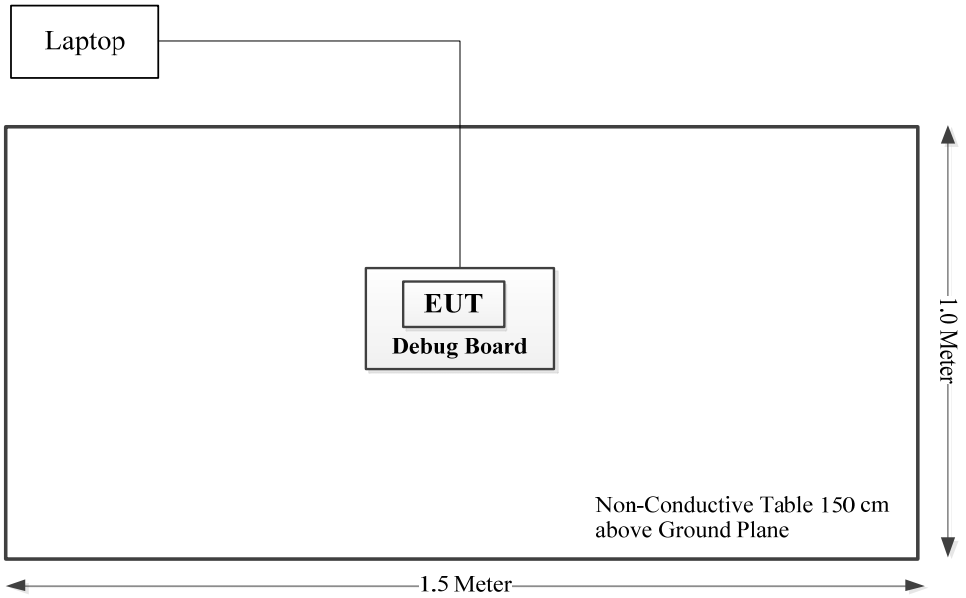
## Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|---|---|---|---|
| Unknown | Debug Board | Unknown | 2YVE-8 |
| Azeyoo | Laptop | AL141U | Unknown |

## Support Cable List and Details

| Cable Description | Shielding Cable | Ferrite Core | Length (m) | From Port | To |
|---|---|---|---|---|---|
| USB Cable | NO | NO | 1.1 | Debug Board | Laptop |

## Block Diagram of Test Setup



## Test Equipment List

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| Radiated emissions below 1GHz | | | | | |
| Sunol Sciences | Hybrid Antenna | JB3 | A060611-2 | 2024/4/16 | 2027/4/15 |
| Narda | Coaxial Attenuator | 757C-6dB | 34010 | 2024/4/16 | 2027/4/15 |
| Unknown | Coaxial Cable | C-NJNJ-50 | C-0075-01 | 2025/7/1 | 2026/6/30 |
| Unknown | Coaxial Cable | C-NJNJ-50 | C-0400-01 | 2025/7/1 | 2026/6/30 |
| Unknown | Coaxial Cable | C-NJNJ-50 | C-1400-01 | 2025/7/1 | 2026/6/30 |
| Sonoma | Amplifier | 310N | 372193 | 2025/7/30 | 2026/7/29 |
| R&S | EMI Test Receiver | ESCI | 100035 | 2025/6/25 | 2026/6/24 |
| EMCO | Adjustable Dipole Antenna | 3121C | 9109-753 | N/A | N/A |
| Micro-Coax | Coaxial Cable | UFA210B | 99G1448 | 2025/9/4 | 2026/9/3 |
| Agilent | Signal Generator | E8247C | MY43321350 | 2025/7/28 | 2026/7/27 |
| Radiated emissions above 1GHz | | | | | |
| ETS-Lindgren | Horn Antenna | 3115 | 000 527 35 | 2023/9/7 | 2026/9/6 |
| AH | Horn Antenna | SAS-571 | 1177 | 2026/1/22 | 2029/1/21 |
| Ducommun Technologies | Horn Antenna | ARH-4223-02 | 1007726-02 1304 | 2026/2/21 | 2029/2/20 |
| Ducommun Technologies | Horn Antenna | ARH-4223-02 | 1007726-03 1304 | 2026/2/6 | 2029/2/5 |
| Xinhang Macrowave | Coaxial Cable | XH750A-N/J-SMA/J-10M | 20231117004 #0001 | 2025/11/14 | 2026/11/13 |
| Xinhang Macrowave | Coaxial Cable | XH360A-2.92/J-2.92/J-6M-A | 20231208001 #0001 | 2025/11/14 | 2026/11/13 |
| Micro-Coax | Coaxial Cable | UFA210B | 99G1448 | 2025/9/4 | 2026/9/3 |
| Agilent | Signal Generator | E8247C | MY43321350 | 2025/7/28 | 2026/7/27 |
| AH | Preamplifier | PAM-0118P | 469 | 2025/4/11 | 2026/4/10 |
| AH | Preamplifier | PAM-1840VH | 191 | 2025/7/31 | 2026/7/30 |
| R&S | Spectrum Analyzer | FSV40 | 101944 | 2025/8/8 | 2026/8/7 |
| Decentest | Multiplex Switch Test Control Set & Filter Switch Unit | DT7220SCU & DT7220FSU | DS79902 & DS79905 | 2025/8/25 | 2026/8/24 |
| RF conducted | | | | | |
| R&S | Spectrum Analyzer | FSV40 | 101589 | 2025/7/28 | 2026/7/27 |
| JD | Test Software | JD Auto Test System | V1.0 | N/A | N/A |
| JD | Broadband Wireless Access Device Test Control box | DT2400MCU | DS78804 | 2025/5/23 | 2026/5/22 |
| R&S | Wideband Radio Communication Tester | CMW500 | 149216 | 2025/7/28 | 2026/7/27 |
| Agilent | MXG Vector Signal Generator | N5182B | MY51350142 | 2026/1/14 | 2027/1/13 |
| GLOBAL | TEMP&HUMI Test Chamber | BTH-150-40 | 30173 | 2025/08/01 | 2026/07/31 |

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| RF conducted (Adaptivity) | | | | | |
| Keysight | MXA Signal Analyzer | N9020A | MY48490106 | 2025/7/29 | 2026/7/28 |
| Agilent | MXG Vector Signal Generator | N5182A | MY49060274 | 2025/7/29 | 2026/7/28 |
| Tonscend | RF Control Unit | JS0806-2 | 19G8060171 | 2025/7/29 | 2026/7/28 |
| Eastsheep | Coaxial Attenuator | 2W-SMA-JK-6G-10dB | F-08-EM509 | 2025/6/6 | 2026/6/5 |
| Mini-Circuits | Coaxial DC Block | BLK-18-S+ | 15542 | 2025/2/28 | 2026/2/27 |

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

## Environmental Conditions

| Test Item: | Radiated emissions (below 1GHz) | Radiated emissions (above 1GHz) | RF conducted | RF conducted (Adaptivity) |
|---|---|---|---|---|
| Temperature: | 23℃ | 24.4℃ | 18.1~20.5℃ | 25.1℃ |
| Relative Humidity: | 47% | 54% | 46~47% | 35% |
| ATM Pressure: | 101.5kPa | 100.8kPa | 101.9~102kPa | 102kPa |
| Tester: | Lancer Zhang | Alan Xie, Willem Qiu | Cooper Zhou | Harper Shen |
| Test Date: | 2026/1/30 | 2026/2/25 | 2026/2/2~2026/2/3 | 2026/2/3 |

# SUMMARY OF TEST RESULTS

| SN | Rule and Clause | Description of Test | Test Result |
|---|---|---|---|
| 1 | EN 301 893 Clause 4.2.1 | Nominal centre frequency | Compliant |
| 2 | EN 301 893 Clause 4.2.2 | Nominal channel bandwidth and occupied bandwidth | Compliant |
| 3 | EN 301 893 Clause 4.2.3 | RF output power | Compliant |
| | | Power Spectral Density (PSD) | Compliant |
| 4 | EN 301 893 Clause 4.2.4.1 | Transmitter unwanted emissions outside the transmitter's operating bands | Compliant |
| 5 | EN 301 893 Clause 4.2.4.2 | Transmitter unwanted emissions within the transmitter's operating bands | Compliant |
| 6 | EN 301 893 Clause 4.2.5 | Receiver spurious emissions | Compliant |
| 7 | EN 301 893 Clause 4.2.6 | DFS | Compliant** |
| 8 | EN 301 893 Clause 4.2.7.3.2 | Adaptivity (channel access mechanism) | Compliant |
| 9 | EN 301 893 Clause 4.2.8 | Receiver blocking | Compliant |
| 10 | EN 301 893 Clause 4.2.9 | Adjacent channel selectivity | Compliant |
| 11 | EN 301 893 Clause 4.2.10 | User Access Restrictions (UAR) | Compliant* |
| 12 | EN 301 893 Clause B.2.2.11 | Country determination capability | Not applicable |

Note:
**Compliant***: Please refer to the product information declared by the manufacturer.
**Compliant****: Please refer to DFS report.
**Not applicable**: Only required for RLAN devices that are capable of applying an RF output power of greater than 25mW EIRP in sub-band 4.

# 1 –NOMINAL CENTRE FREQUENCY

## Definition

The nominal centre frequency is the centre of the channel.

## Limit

The nominal centre frequencies (fc) for channels whose nominal channel bandwidth falls partly or completely within sub-band 1, sub-band 2 or sub-band 3 shall be defined by equation (1).

fc = 5 160 MHz + (g × 20 MHz) ± fc_offset, with g integer and $0 \leq g \leq 9$ or $16 \leq g \leq 28$ (1)

Operation on the channel with g = 28 is only permitted where operation in sub-band 4 by RLAN devices is allowed by national frequency usage conditions.

An offset (fc_offset) is permitted for each nominal centre frequency. The offset may be different for each nominal centre frequency, but it shall not be greater than 200 kHz. Where an offset is applied, the nominal centre frequencies used by the equipment shall be noted in the test report (see clause 5.4.1, item a)).

The nominal centre frequency for any given channel shall be maintained within the range of fc ± 0,002 %.

Equipment may have simultaneous transmissions on more than one channel.

## Test method

- ☐ Conducted with connector on UUT
- ☐ Radiated
- ☐ Test fixture relative
- ☒ Test fixture normalized
- ☐ Test fixture level independent

## Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) §5.4.2

## Test Data

***Test Result:*** *Compliant. Please refer to as below*

**Band1, Test Condition: NT/NV**

| Test Mode | Antenna | Frequency (MHz) | Measure Frequency(MHz) | Result (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|
| Single Carrier | Chain 0 | 5180 | 5180.00135 | 0.26 | ± 20 | Pass |

**Band1, Test Condition: LT/NV**

| Test Mode | Antenna | Frequency (MHz) | Measure Frequency(MHz) | Result (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|
| Single Carrier | Chain 0 | 5180 | 5179.99231 | -1.48 | ± 20 | Pass |

**Band1, Test Condition: HT/NV**

| Test Mode | Antenna | Frequency (MHz) | Measure Frequency(MHz) | Result (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|
| Single Carrier | Chain 0 | 5180 | 5180.00632 | 1.22 | ± 20 | Pass |

**Band2, Test Condition: NT/NV**

| Test Mode | Antenna | Frequency (MHz) | Measure Frequency(MHz) | Result (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|
| Single Carrier | Chain 0 | 5260 | 5260.00105 | 0.20 | ± 20 | Pass |

**Band2, Test Condition: LT/NV**

| Test Mode | Antenna | Frequency (MHz) | Measure Frequency(MHz) | Result (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|
| Single Carrier | Chain 0 | 5260 | 5259.99142 | -1.63 | ± 20 | Pass |

**Band2, Test Condition: HT/NV**

| Test Mode | Antenna | Frequency (MHz) | Measure Frequency(MHz) | Result (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|
| Single Carrier | Chain 0 | 5260 | 5260.00712 | 1.35 | ± 20 | Pass |

**Band3, Test Condition: NT/NV**

| Test Mode | Antenna | Frequency (MHz) | Measure Frequency(MHz) | Result (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|
| Single Carrier | Chain 0 | 5500 | 5500.00105 | 0.19 | ± 20 | Pass |

**Band3, Test Condition: LT/NV**

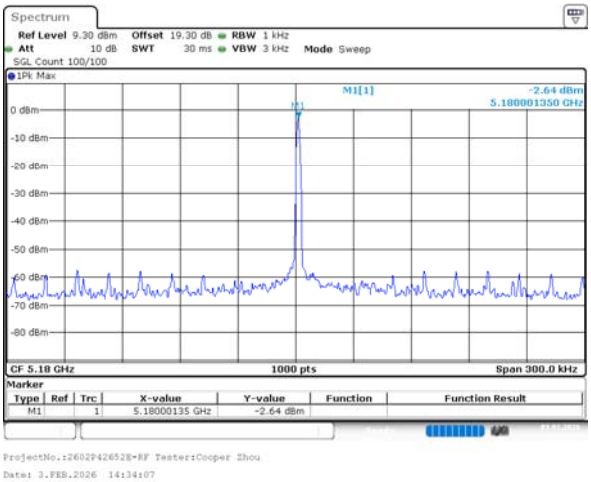
| Test Mode | Antenna | Frequency (MHz) | Measure Frequency(MHz) | Result (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|
| Single Carrier | Chain 0 | 5500 | 5499.99127 | -1.59 | ± 20 | Pass |

**Band3, Test Condition: HT/NV**

| Test Mode | Antenna | Frequency (MHz) | Measure Frequency(MHz) | Result (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|
| Single Carrier | Chain 0 | 5500 | 5500.01245 | 2.26 | ± 20 | Pass |

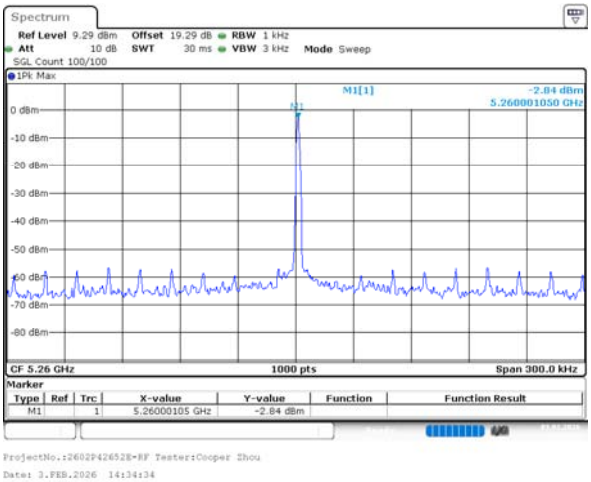
**Band1, Test Condition: NT/NV**

Single Carrier_5180MHz



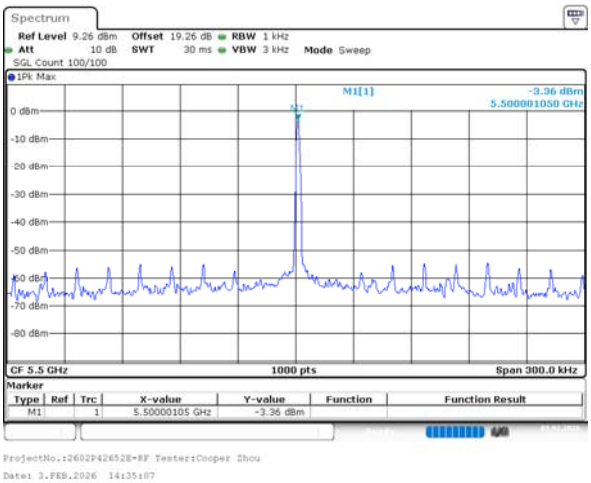

**Band2, Test Condition: NT/NV**

Single Carrier_5260MHz




**Band3, Test Condition: NT/NV**

Single Carrier_5500MHz




*Note: The offset is equal to the attenuation of the Broadband Wireless Access Device Test Control box plus the cable loss.*

# 2 –NOMINAL CHANNEL BANDWIDTH AND OCCUPIED BANDWIDTH

## Definition

The nominal channel bandwidth is the widest band of frequencies, inclusive of guard bands, assigned to a channel.

The occupied bandwidth is the bandwidth within the nominal channel bandwidth containing 99 % of the power of the signal.

When RLAN devices have simultaneous transmissions in adjacent channels, these transmissions are considered as one signal with a total bandwidth (N) of n times the nominal channel bandwidth of an individual channel where n is the number of adjacent channels. When equipment has simultaneous transmissions in non-adjacent channels, each power envelope is considered separately.

## Limit

The nominal channel bandwidth for a single channel shall be 20 MHz.

Alternatively, equipment may implement a lower nominal channel bandwidth with a minimum of 5 MHz, providing it still conforms to the limits defined for nominal centre frequencies (20 MHz raster).

For channels whose nominal channel bandwidth falls partly or completely within sub-band 2 or sub-band 3, the occupied bandwidth shall not be less than 80 % of the nominal channel bandwidth. During a Channel Occupancy Time (COT), equipment may operate temporarily with an occupied bandwidth of less than 80 % of its nominal channel bandwidth. The occupied bandwidth shall not be less than 2 MHz.

For channels whose nominal channel bandwidth falls completely outside sub-band 2 and sub-band 3, the occupied bandwidth shall be equal or less than the nominal channel bandwidth.

In case of smart antenna systems (devices with multiple transmit chains) each of the transmit chains shall meet the requirements specified in this clause.

The occupied bandwidth might change with time/payload.

## Test method

- ☐ Conducted with connector on UUT
- ☐ Radiated
- ☐ Test fixture relative
- ☒ Test fixture normalized
- ☐ Test fixture level independent

## Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) §5.4.3

## Test Data

***Test Result:*** *Compliant. Please refer to as below*

**Band1**

| Test Mode | Antenna | Freq. (MHz) | OCB (MHz) | $F_L$ (MHz) | $F_H$ (MHz) | Limit (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5180 | 17.12 | 5171.58 | 5188.70 | ≤ 20 | Pass |
| 802.11n20 | Chain 0 | 5180 | 17.76 | 5171.14 | 5188.90 | ≤ 20 | Pass |
| 802.11ac20 | Chain 0 | 5180 | 17.68 | 5171.14 | 5188.82 | ≤ 20 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5180 | 18.84 | 5170.58 | 5189.42 | ≤ 20 | Pass |

**Band2**

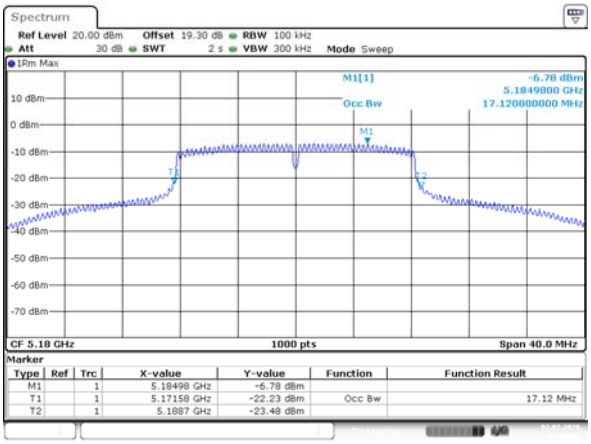
| Test Mode | Antenna | Freq. (MHz) | OCB (MHz) | $F_L$ (MHz) | $F_H$ (MHz) | Limit (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5260 | 17.08 | 5251.54 | 5268.62 | 16 to 20 | Pass |
| 802.11n20 | Chain 0 | 5260 | 17.76 | 5251.14 | 5268.90 | 16 to 20 | Pass |
| 802.11ac20 | Chain 0 | 5260 | 17.68 | 5251.14 | 5268.82 | 16 to 20 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5260 | 18.88 | 5250.54 | 5269.42 | 16 to 20 | Pass |

**Band3**

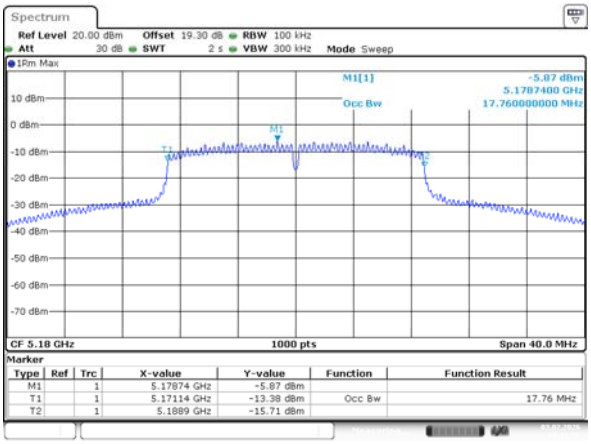
| Test Mode | Antenna | Freq. (MHz) | OCB (MHz) | $F_L$ (MHz) | $F_H$ (MHz) | Limit (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5500 | 16.52 | 5491.74 | 5508.26 | 16 to 20 | Pass |
| 802.11n20 | Chain 0 | 5500 | 17.80 | 5491.10 | 5508.90 | 16 to 20 | Pass |
| 802.11ac20 | Chain 0 | 5500 | 17.68 | 5491.14 | 5508.82 | 16 to 20 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5500 | 18.88 | 5490.54 | 5509.42 | 16 to 20 | Pass |

**Band1, Test Condition: NV**

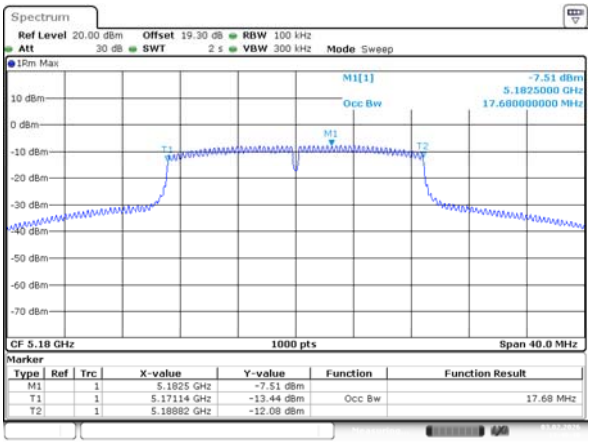
802.11a_5180MHz



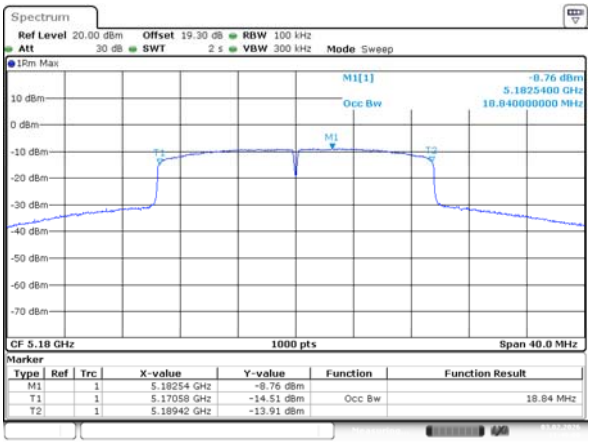

802.11n20_5180MHz




802.11ac20_5180MHz

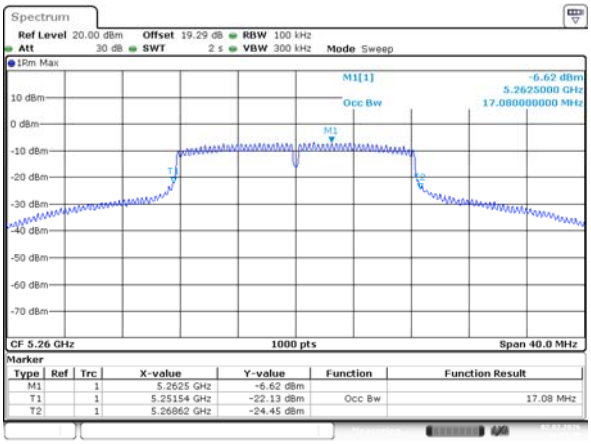



802.11ax20_5180MHz_RU_Full

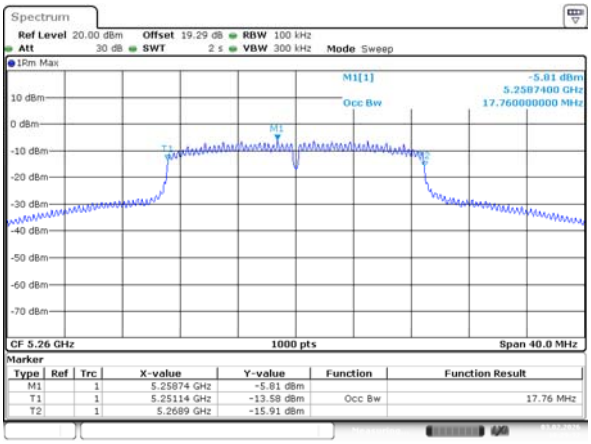



**Band2, Test Condition: NV**

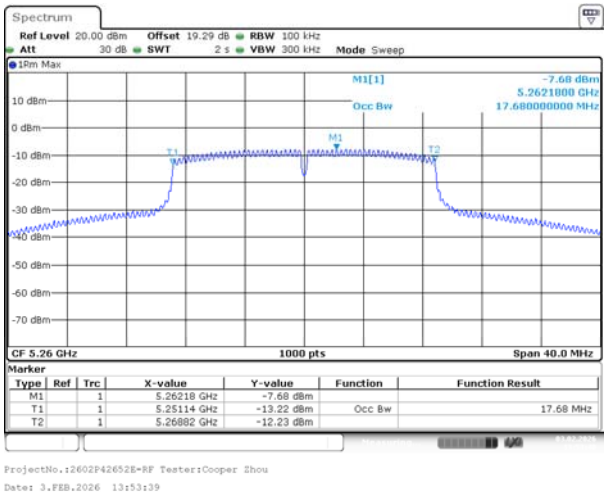
802.11a_5260MHz



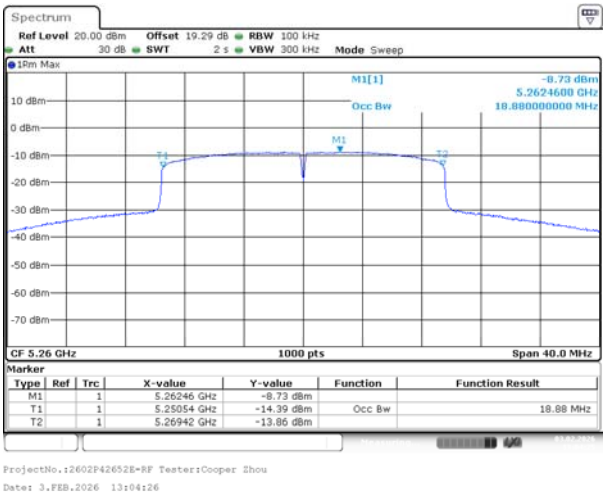

802.11n20_5260MHz



802.11ac20_5260MHz

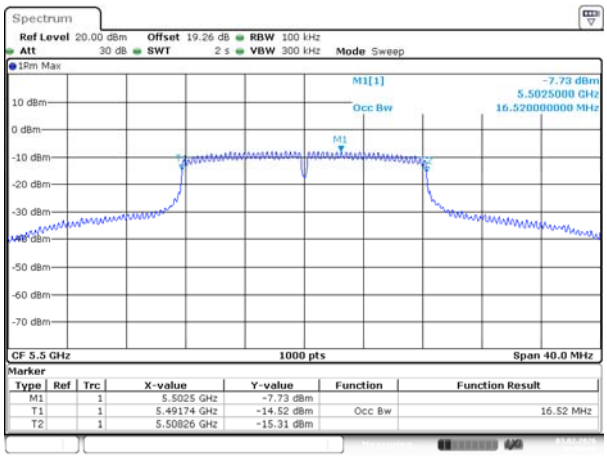



802.11ax20_5260MHz_RU_Full

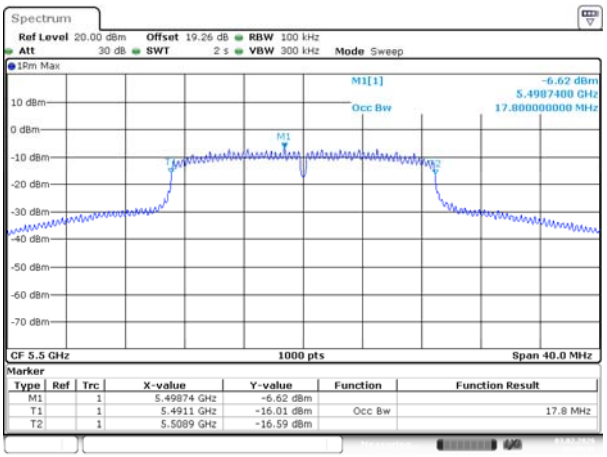



**Band3, Test Condition: NV**

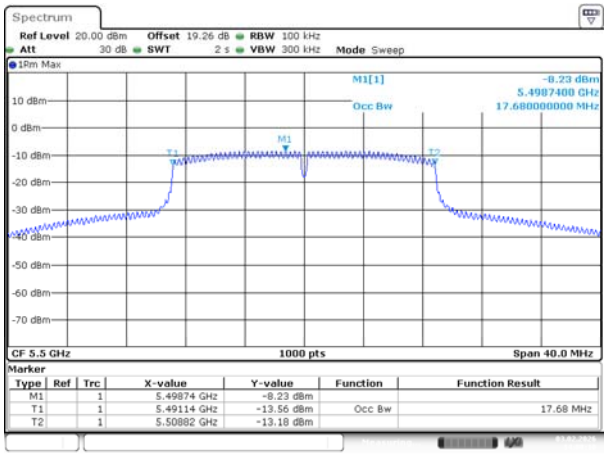
802.11a_5500MHz



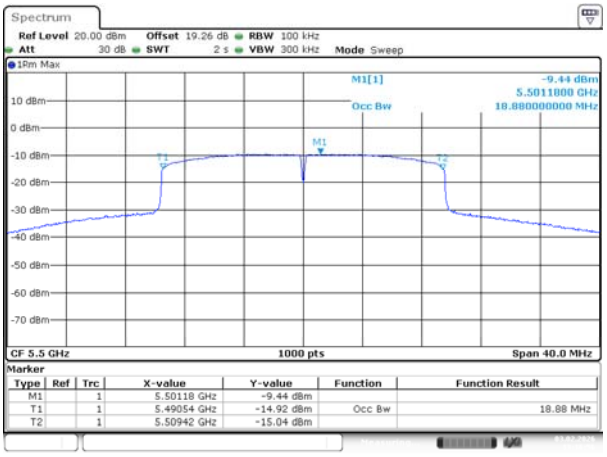

802.11n20_5500MHz




802.11ac20_5500MHz




802.11ax20_5500MHz_RU_Full




*Note: The offset is equal to the attenuation of the Broadband Wireless Access Device Test Control box plus the cable loss.*

# 3 – RF OUTPUT POWER, TRANSMIT POWER CONTROL (TPC), POWER DENSITY

## Definition

**RF Output Power:**

The RF output power is the mean equivalent isotropically radiated power (EIRP) during a transmission burst.

**Transmit Power Control (TPC):**

Transmit Power Control (TPC) is a mechanism to ensure a mitigation factor of at least 3 dB on the aggregate power from a large number of devices, which implies a TPC range of at least 6 dB. The RF output power limit and the PSD limit might depend on whether an RLAN device operates with or without TPC.

**Power Spectral Density (PSD):**

The Power Spectral Density (PSD) is the mean EIRP density during a transmission burst.

## Limit

The maximum RF output power $P_{H,sb}$ and the PSD in sub-band sb shall not exceed the limits given in table 2 for that sub-band. If the device uses TPC, $P_{H,sb}$ is the RF output power in sub-band sb at the highest power level of the TPC range in sub-band sb. In case of multiple (adjacent or non-adjacent) channels, the limits for the maximum RF output power and the PSD apply per sub-band.

NOTE: According to ECC/DEC/(04)08 [i.6] as well as Commission Implementing Decision (EU) 2022/179 [i.7] amended by Commission Implementing Decision (EU) 2022/2307 [i.8], for certain installations, the RF output power limit and the PSD limit might be lower than given in table 2.

**Table 2: RF output power and PSD limits**

| Sub-band | RF output power limit (dBm) | | PSD limit (dBm/MHz) | |
|---|---|---|---|---|
| | with TPC (see note 3) | without TPC | with TPC | without TPC |
| Sub-band 1 | 23 | 23 | 10 | 10 |
| Sub-band 2 | 23 | 20 | 10 | 7 |
| Sub-band 3 (see note 2) | 30 (see note 1) | 27 (see note 1) | 17 (see note 1) | 14 (see note 1) |
| NOTE 1: Secondary devices without radar detection operating in sub-band 3 shall conform to the limits for sub-band 2. | | | | |
| NOTE 2: National frequency usage conditions may allow devices to operate in sub-band 3 on a channel with a nominal channel bandwidth that extends into sub-band 4. | | | | |
| NOTE 3: If TPC is used, the RF output power in sub-band sb at the lowest power level of the TPC range in sub-band sb ($P_{L,sb}$) shall be at least 6 dB less than the applicable RF output power limit with TPC. | | | | |

## Test method

- ☐ Conducted with connector on UUT
- ☐ Radiated
- ☐ Test fixture relative
- ☒ Test fixture normalized
- ☐ Test fixture level independent

## Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) §5.4.4

## Test Data

***Test Result:*** *Compliant. Please refer to as below.*

**RF output power (TPC_H)**

**Band1**

**Test Condition: NT/NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5180 | 19.444 | 23 | Pass |
| | | 5240 | 18.295 | 23 | Pass |
| 802.11n20 | Chain 0 | 5180 | 20.039 | 23 | Pass |
| | | 5240 | 19.093 | 23 | Pass |
| 802.11ac20 | Chain 0 | 5180 | 18.400 | 23 | Pass |
| | | 5240 | 17.810 | 23 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5180 | 18.849 | 23 | Pass |
| | | 5240 | 18.332 | 23 | Pass |

**Test Condition: LT/NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5180 | 19.677 | 23 | Pass |
| | | 5240 | 18.657 | 23 | Pass |
| 802.11n20 | Chain 0 | 5180 | 20.296 | 23 | Pass |
| | | 5240 | 19.319 | 23 | Pass |
| 802.11ac20 | Chain 0 | 5180 | 18.653 | 23 | Pass |
| | | 5240 | 18.003 | 23 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5180 | 19.247 | 23 | Pass |
| | | 5240 | 18.483 | 23 | Pass |

**Test Condition: HT/NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5180 | 19.275 | 23 | Pass |
| | | 5240 | 18.002 | 23 | Pass |
| 802.11n20 | Chain 0 | 5180 | 19.739 | 23 | Pass |
| | | 5240 | 18.927 | 23 | Pass |
| 802.11ac20 | Chain 0 | 5180 | 18.035 | 23 | Pass |
| | | 5240 | 17.617 | 23 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5180 | 18.639 | 23 | Pass |
| | | 5240 | 18.040 | 23 | Pass |

**Band2**

**Test Condition: NT/ NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5260 | 19.919 | 23 | Pass |
| | | 5320 | 18.312 | 23 | Pass |
| 802.11n20 | Chain 0 | 5260 | 20.097 | 23 | Pass |
| | | 5320 | 18.454 | 23 | Pass |
| 802.11ac20 | Chain 0 | 5260 | 18.760 | 23 | Pass |
| | | 5320 | 17.924 | 23 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5260 | 19.275 | 23 | Pass |
| | | 5320 | 18.489 | 23 | Pass |

**Test Condition:LT/ NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5260 | 20.107 | 23 | Pass |
| | | 5320 | 18.597 | 23 | Pass |
| 802.11n20 | Chain 0 | 5260 | 20.310 | 23 | Pass |
| | | 5320 | 18.766 | 23 | Pass |
| 802.11ac20 | Chain 0 | 5260 | 18.927 | 23 | Pass |
| | | 5320 | 18.191 | 23 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5260 | 19.617 | 23 | Pass |
| | | 5320 | 18.673 | 23 | Pass |

**Test Condition:HT/ NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5260 | 19.681 | 23 | Pass |
| | | 5320 | 18.139 | 23 | Pass |
| 802.11n20 | Chain 0 | 5260 | 19.861 | 23 | Pass |
| | | 5320 | 18.173 | 23 | Pass |
| 802.11ac20 | Chain 0 | 5260 | 18.635 | 23 | Pass |
| | | 5320 | 17.626 | 23 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5260 | 19.097 | 23 | Pass |
| | | 5320 | 18.334 | 23 | Pass |

**Band3**

**Test Condition: NT/NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5500 | 18.339 | 23 | Pass |
| | | 5700 | 17.737 | 23 | Pass |
| 802.11n20 | Chain 0 | 5500 | 18.737 | 23 | Pass |
| | | 5700 | 18.321 | 23 | Pass |
| 802.11ac20 | Chain 0 | 5500 | 17.801 | 23 | Pass |
| | | 5700 | 17.171 | 23 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5500 | 18.276 | 23 | Pass |
| | | 5700 | 17.744 | 23 | Pass |

**Test Condition: LT/NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5500 | 18.622 | 23 | Pass |
| | | 5700 | 18.066 | 23 | Pass |
| 802.11n20 | Chain 0 | 5500 | 18.992 | 23 | Pass |
| | | 5700 | 18.498 | 23 | Pass |
| 802.11ac20 | Chain 0 | 5500 | 18.044 | 23 | Pass |
| | | 5700 | 17.538 | 23 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5500 | 18.663 | 23 | Pass |
| | | 5700 | 18.084 | 23 | Pass |

**Test Condition: HT/NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5500 | 18.109 | 23 | Pass |
| | | 5700 | 17.559 | 23 | Pass |
| 802.11n20 | Chain 0 | 5500 | 18.494 | 23 | Pass |
| | | 5700 | 18.125 | 23 | Pass |
| 802.11ac20 | Chain 0 | 5500 | 17.433 | 23 | Pass |
| | | 5700 | 16.856 | 23 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5500 | 18.150 | 23 | Pass |
| | | 5700 | 17.622 | 23 | Pass |

Note:
The duty cycle factor and antenna gain were added into the EIRP.

**Transmit Power Control (TPC_L)**

**Band2**

**Test Condition:NT/ NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5260 | 12.903 | 17 | Pass |
| | | 5320 | 11.976 | 17 | Pass |
| 802.11n20 | Chain 0 | 5260 | 13.558 | 17 | Pass |
| | | 5320 | 12.275 | 17 | Pass |
| 802.11ac20 | Chain 0 | 5260 | 12.059 | 17 | Pass |
| | | 5320 | 11.806 | 17 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5260 | 12.256 | 17 | Pass |
| | | 5320 | 12.213 | 17 | Pass |

**Test Condition:LT/ NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5260 | 13.292 | 17 | Pass |
| | | 5320 | 12.476 | 17 | Pass |
| 802.11n20 | Chain 0 | 5260 | 13.292 | 17 | Pass |
| | | 5320 | 12.355 | 17 | Pass |
| 802.11ac20 | Chain 0 | 5260 | 12.528 | 17 | Pass |
| | | 5320 | 11.323 | 17 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5260 | 12.585 | 17 | Pass |
| | | 5320 | 12.042 | 17 | Pass |

**Test Condition:HT/ NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5260 | 12.819 | 17 | Pass |
| | | 5320 | 11.921 | 17 | Pass |
| 802.11n20 | Chain 0 | 5260 | 13.171 | 17 | Pass |
| | | 5320 | 11.614 | 17 | Pass |
| 802.11ac20 | Chain 0 | 5260 | 12.490 | 17 | Pass |
| | | 5320 | 11.322 | 17 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5260 | 12.413 | 17 | Pass |
| | | 5320 | 12.063 | 17 | Pass |

**Band3**

**Test Condition: NT/NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5500 | 12.226 | 17 | Pass |
| | | 5700 | 11.270 | 17 | Pass |
| 802.11n20 | Chain 0 | 5500 | 12.285 | 17 | Pass |
| | | 5700 | 12.042 | 17 | Pass |
| 802.11ac20 | Chain 0 | 5500 | 11.001 | 17 | Pass |
| | | 5700 | 10.710 | 17 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5500 | 12.148 | 17 | Pass |
| | | 5700 | 10.725 | 17 | Pass |

**Test Condition: LT/NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5500 | 11.541 | 17 | Pass |
| | | 5700 | 11.545 | 17 | Pass |
| 802.11n20 | Chain 0 | 5500 | 12.688 | 17 | Pass |
| | | 5700 | 12.301 | 17 | Pass |
| 802.11ac20 | Chain 0 | 5500 | 11.066 | 17 | Pass |
| | | 5700 | 10.930 | 17 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5500 | 12.300 | 17 | Pass |
| | | 5700 | 11.167 | 17 | Pass |

**Test Condition: HT/NV**

| Test Mode | Antenna | Freq. (MHz) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5500 | 11.240 | 17 | Pass |
| | | 5700 | 10.561 | 17 | Pass |
| 802.11n20 | Chain 0 | 5500 | 11.702 | 17 | Pass |
| | | 5700 | 11.686 | 17 | Pass |
| 802.11ac20 | Chain 0 | 5500 | 10.790 | 17 | Pass |
| | | 5700 | 10.628 | 17 | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5500 | 11.771 | 17 | Pass |
| | | 5700 | 10.958 | 17 | Pass |

Note:
The duty cycle factor and antenna gain were added into the EIRP.

## Duty Cycle

### Band1

| Test Mode | Antenna | Freq. (MHz) | Ton (ms) | Ton+Toff (ms) | Duty Cycle (%) | Duty Cycle Factor(dB) |
|---|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5180 | 0.697 | 0.724 | 96.27 | 0.17 |
| 802.11n20 | Chain 0 | 5180 | 0.289 | 0.320 | 90.31 | 0.44 |
| 802.11ac20 | Chain 0 | 5180 | 3.685 | 3.805 | 96.85 | 0.14 |
| 802.11ax20_RU_Full | Chain 0 | 5180 | 2.849 | 2.873 | 99.16 | 0.04 |

Note:
Duty Cycle Factor = 10*log(1/Duty Cycle).

## Power Density

### Band1

| Test Mode | Antenna | Freq. (MHz) | Reading (dBm/MHz) | DC Factor (dB) | Result (dBm) | Antenna Gain (dBi) | EIRP PSD (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5180 | 1.55 | 0.17 | 1.72 | 3.40 | 5.12 | 10 | Pass |
| | | 5240 | 0.74 | 0.17 | 0.91 | 3.40 | 4.31 | 10 | Pass |
| 802.11n20 | Chain 0 | 5180 | 1.18 | 0.44 | 1.62 | 3.40 | 5.02 | 10 | Pass |
| | | 5240 | 1.15 | 0.44 | 1.59 | 3.40 | 4.99 | 10 | Pass |
| 802.11ac20 | Chain 0 | 5180 | 0.88 | 0.14 | 1.02 | 3.40 | 4.42 | 10 | Pass |
| | | 5240 | 0.77 | 0.14 | 0.91 | 3.40 | 4.31 | 10 | Pass |
| 802.11ax20 _RU_Full | Chain 0 | 5180 | 0.77 | 0.04 | 0.81 | 3.40 | 4.21 | 10 | Pass |
| | | 5240 | 0.62 | 0.04 | 0.66 | 3.40 | 4.06 | 10 | Pass |

### Band2

| Test Mode | Antenna | Freq. (MHz) | Reading (dBm/MHz) | DC Factor (dB) | Result (dBm) | Antenna Gain (dBi) | EIRP PSD (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5260 | 1.18 | 0.17 | 1.35 | 3.40 | 4.75 | 10 | Pass |
| | | 5320 | 0.38 | 0.17 | 0.55 | 3.40 | 3.95 | 10 | Pass |
| 802.11n20 | Chain 0 | 5260 | 1.26 | 0.44 | 1.70 | 3.40 | 5.10 | 10 | Pass |
| | | 5320 | 0.14 | 0.44 | 0.58 | 3.40 | 3.98 | 10 | Pass |
| 802.11ac20 | Chain 0 | 5260 | 0.96 | 0.14 | 1.10 | 3.40 | 4.50 | 10 | Pass |
| | | 5320 | 0.54 | 0.14 | 0.68 | 3.40 | 4.08 | 10 | Pass |
| 802.11ax20 _RU_Full | Chain 0 | 5260 | 0.84 | 0.04 | 0.88 | 3.40 | 4.28 | 10 | Pass |
| | | 5320 | 0.48 | 0.04 | 0.52 | 3.40 | 3.92 | 10 | Pass |

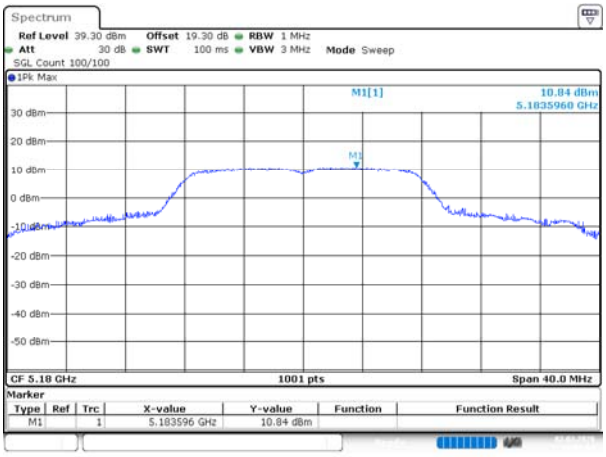
**Band3**

| Test Mode | Antenna | Freq. (MHz) | Reading (dBm/MHz) | DC Factor (dB) | Result (dBm) | Antenna Gain (dBi) | EIRP PSD (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5500 | 0.59 | 0.17 | 0.76 | 3.40 | 4.16 | 10 | Pass |
| | | 5700 | 0.75 | 0.17 | 0.92 | 3.40 | 4.32 | 10 | Pass |
| 802.11n20 | Chain 0 | 5500 | 0.61 | 0.44 | 1.05 | 3.40 | 4.45 | 10 | Pass |
| | | 5700 | 0.33 | 0.44 | 0.77 | 3.40 | 4.17 | 10 | Pass |
| 802.11ac20 | Chain 0 | 5500 | 0.29 | 0.14 | 0.43 | 3.40 | 3.83 | 10 | Pass |
| | | 5700 | 0.06 | 0.14 | 0.20 | 3.40 | 3.60 | 10 | Pass |
| 802.11ax20 _RU_Full | Chain 0 | 5500 | 0.07 | 0.04 | 0.11 | 3.40 | 3.51 | 10 | Pass |
| | | 5700 | 0.00 | 0.04 | 0.04 | 3.40 | 3.44 | 10 | Pass |

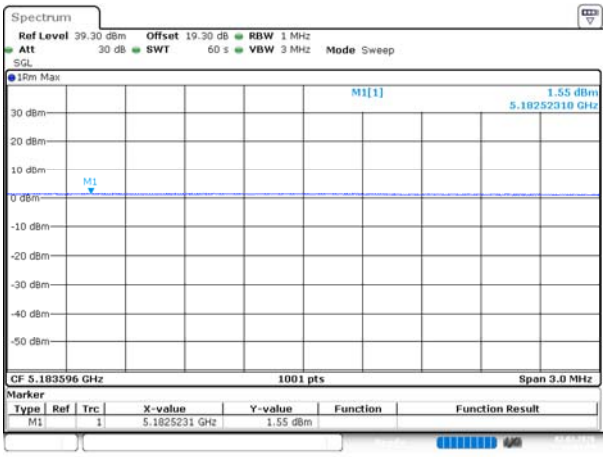
Note:
Result = Reading + DC Factor;
EIRP PSD = Result + Antenna Gain.

**Band1**

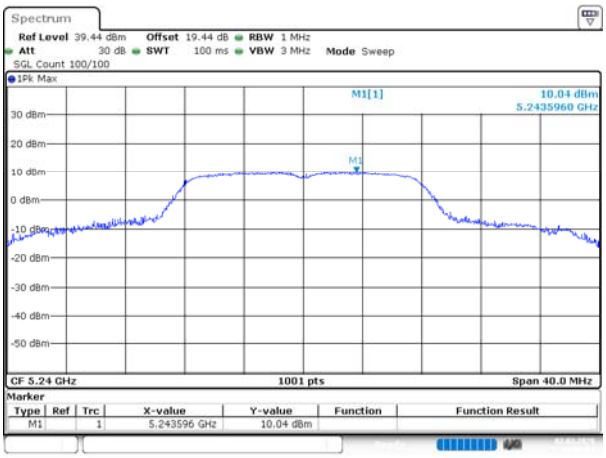
802.11a_5180MHz



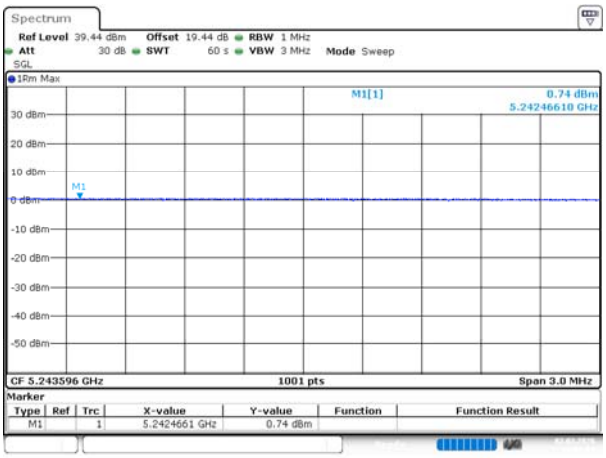

802.11a_5180MHz



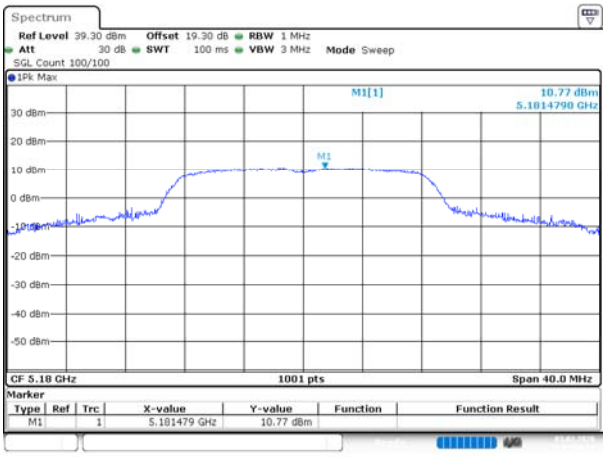

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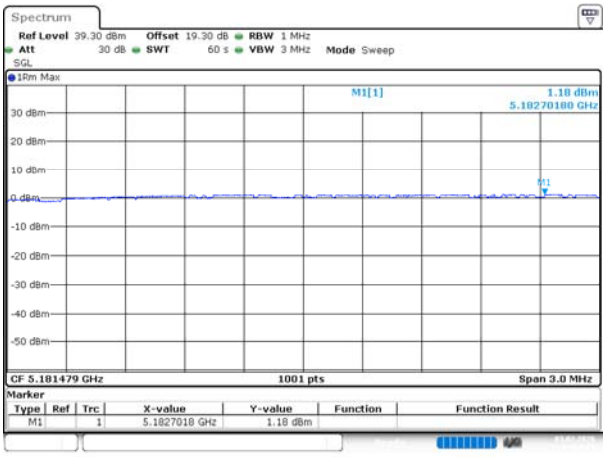

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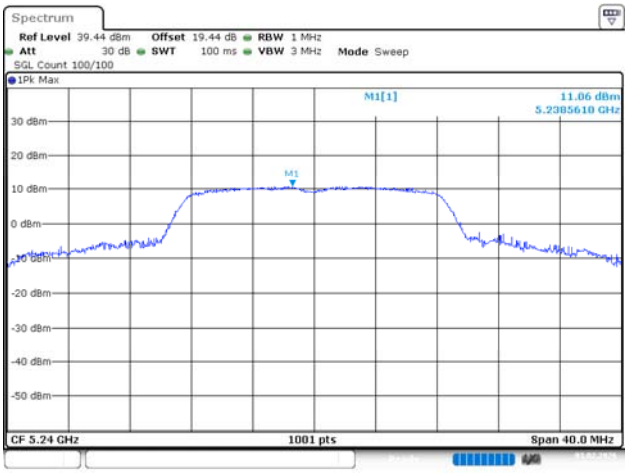

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802.11n20_5180MHz

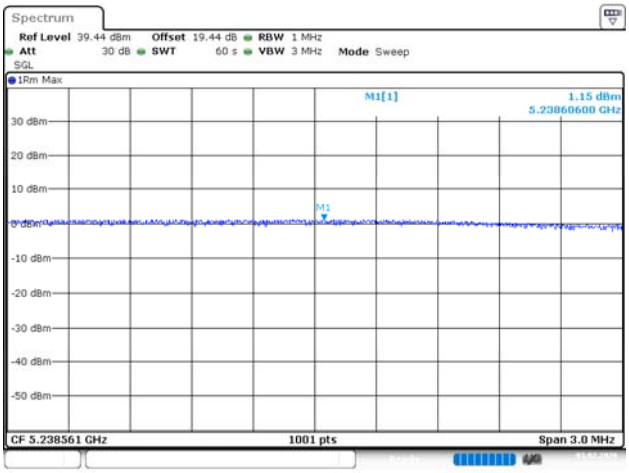


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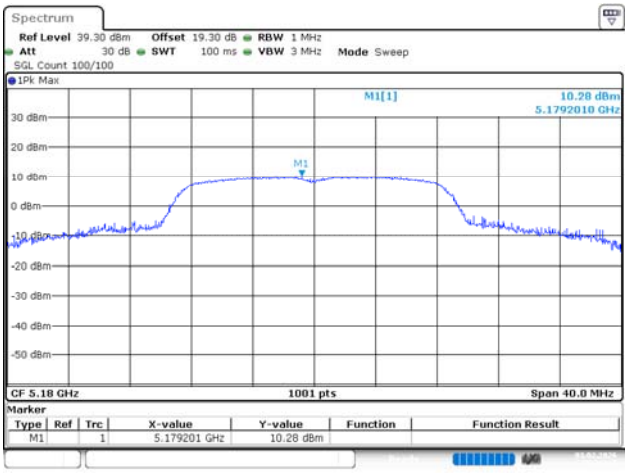

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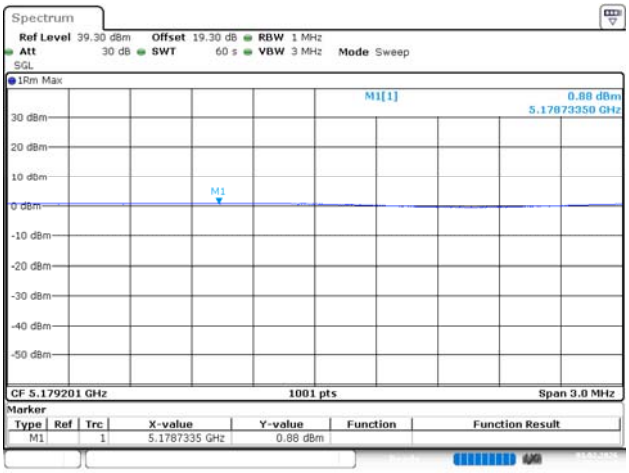

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802.11ac20_5180MHz



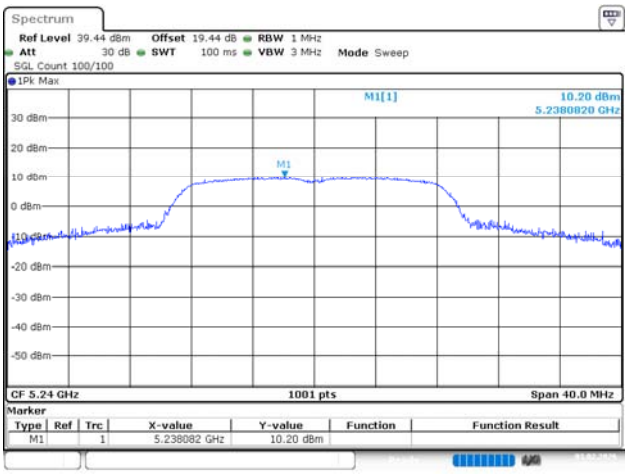

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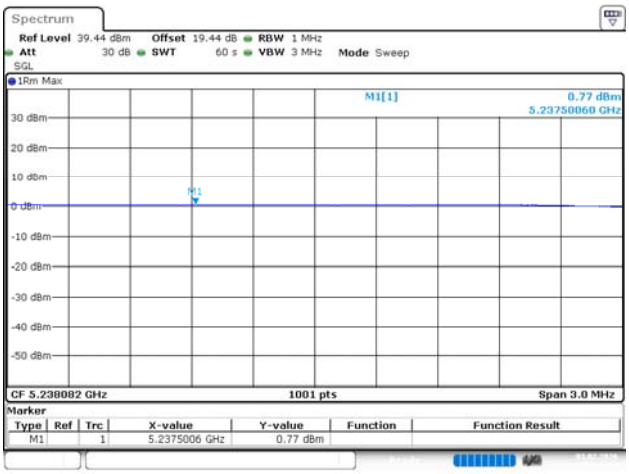

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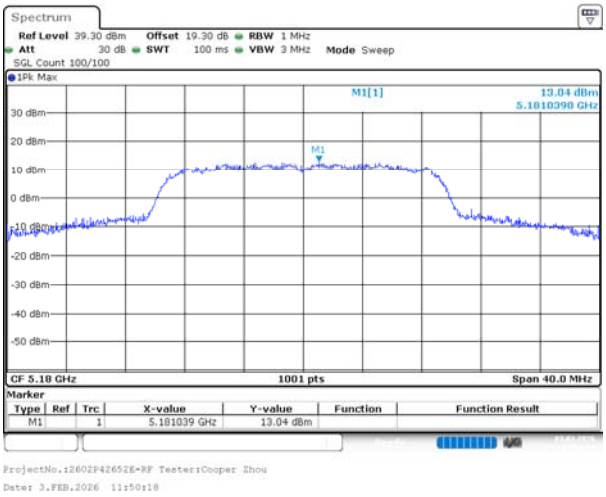

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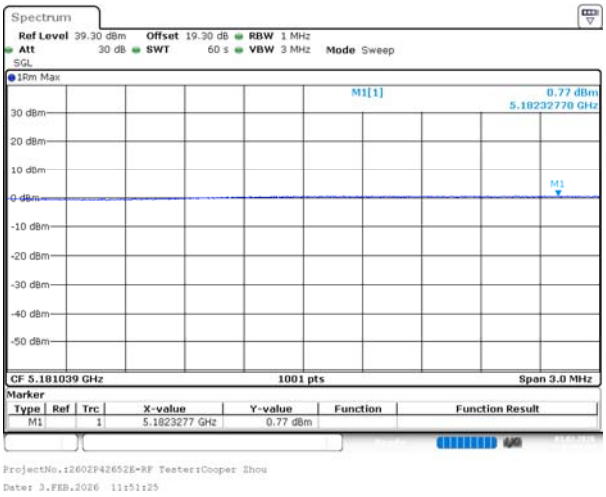



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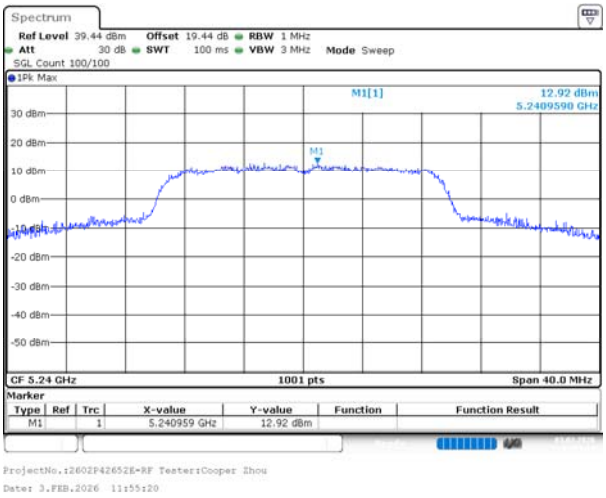
802.11ax20_5180MHz_RU_Full



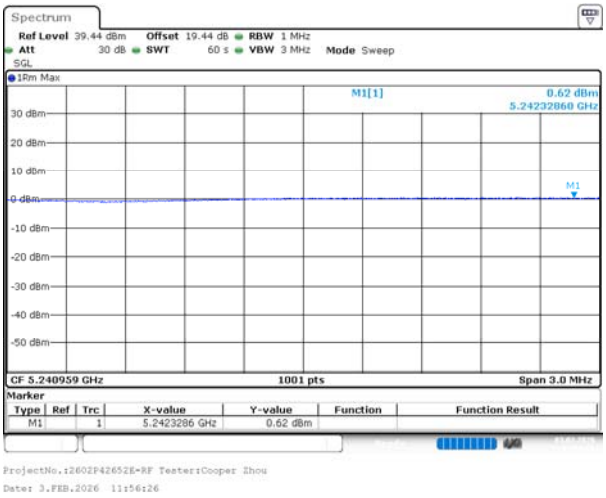

802.11ax20_5180MHz_RU_Full




802.11ax20_5240MHz_RU_Full

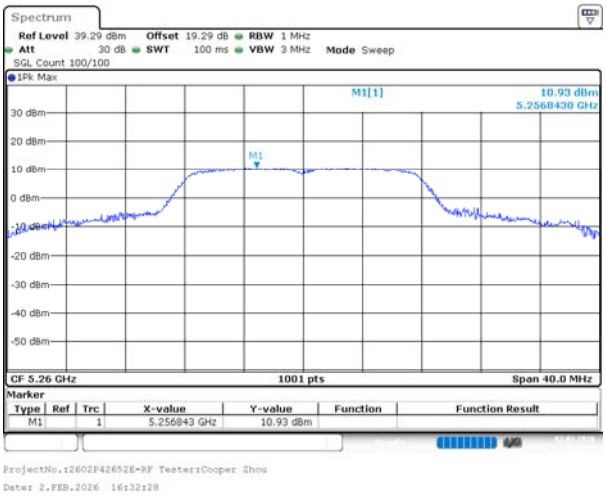



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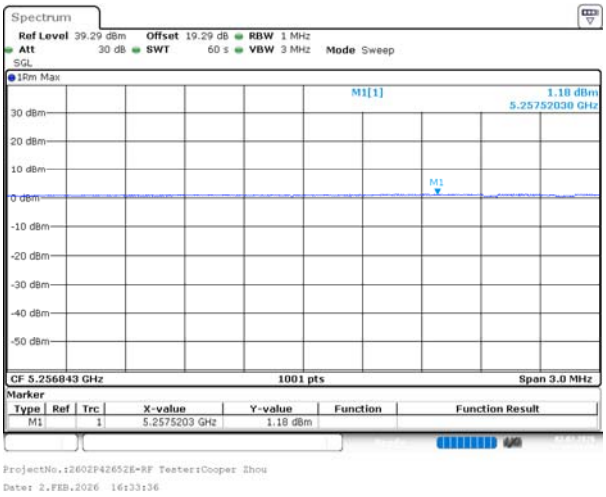



**Band2**

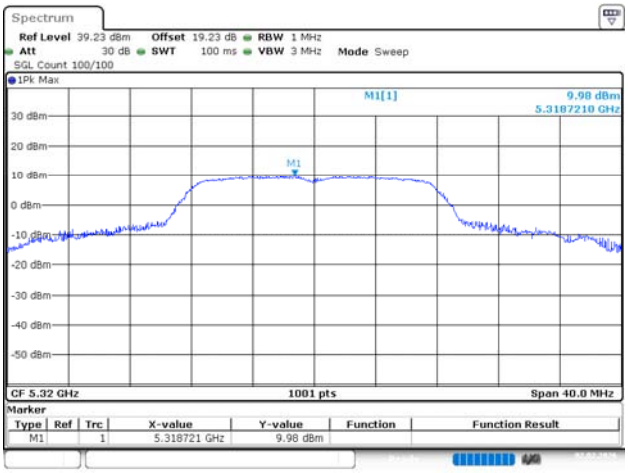
802.11a_5260MHz



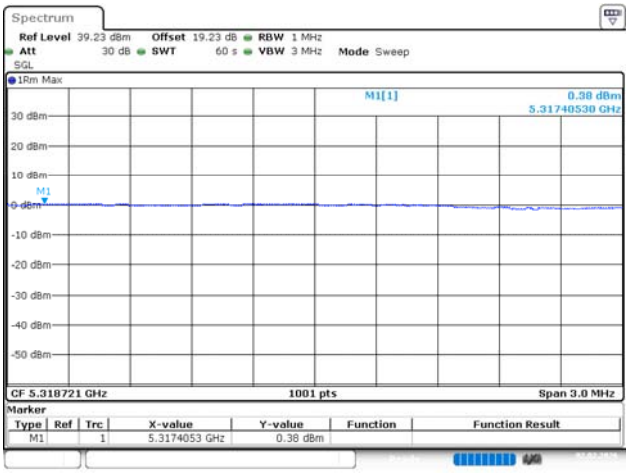

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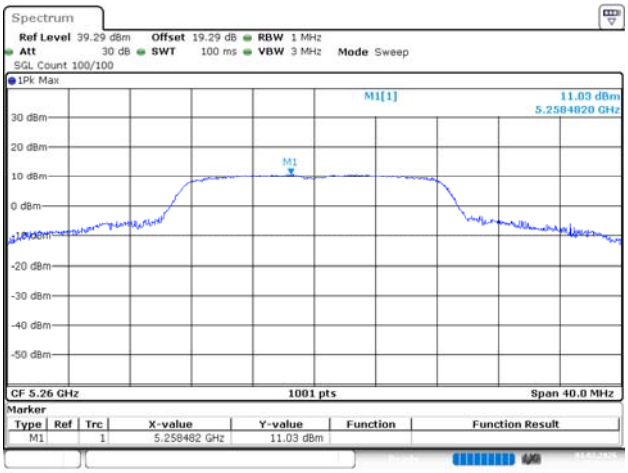
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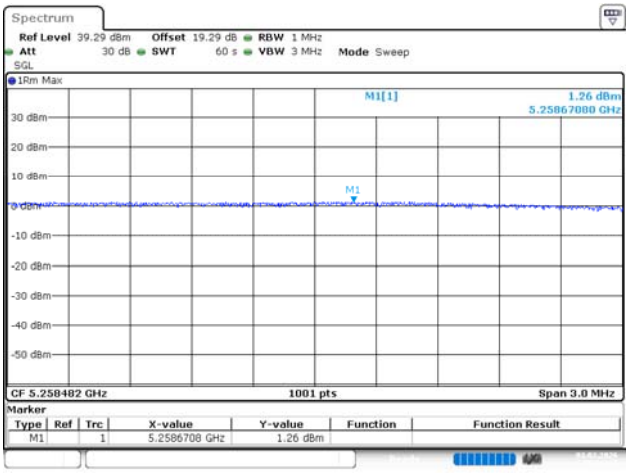

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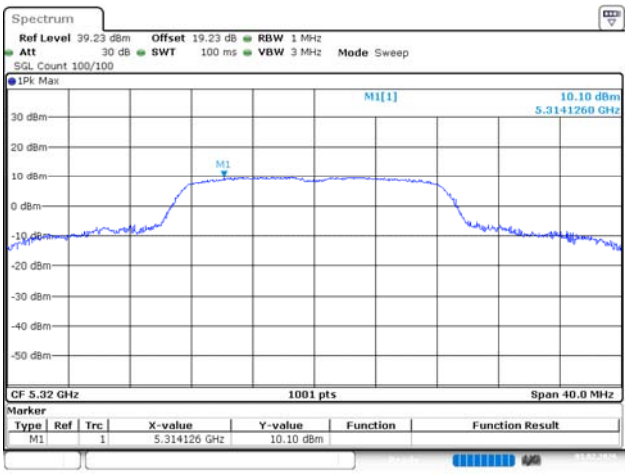

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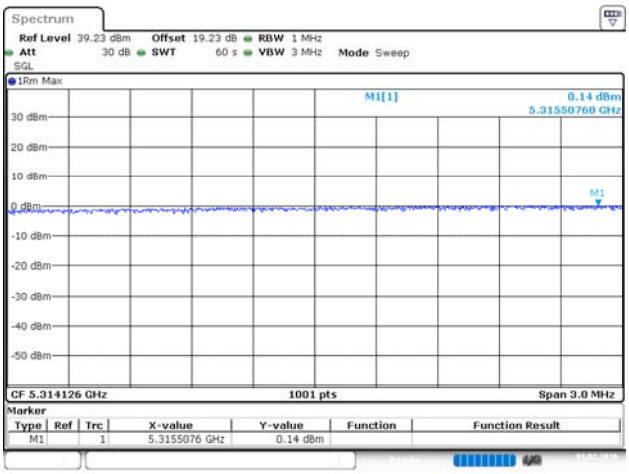

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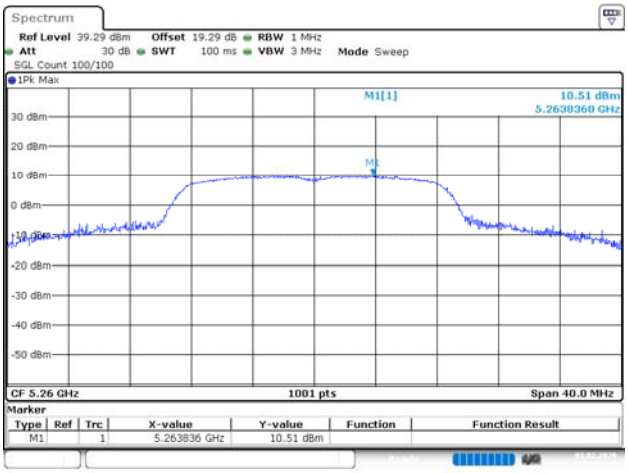

802.11n20_5320MHz




802.11n20_5320MHz

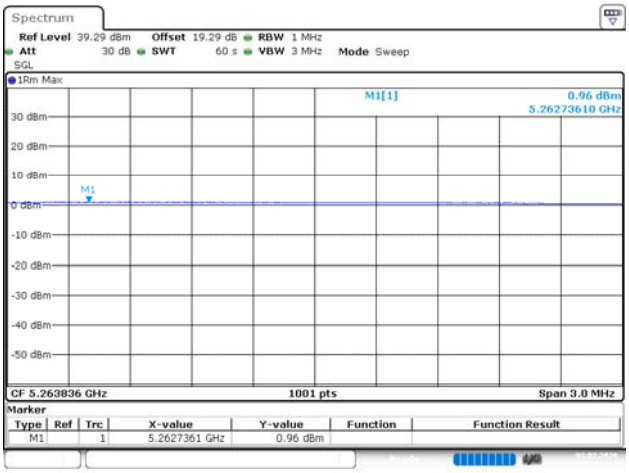


802.11ac20_5260MHz



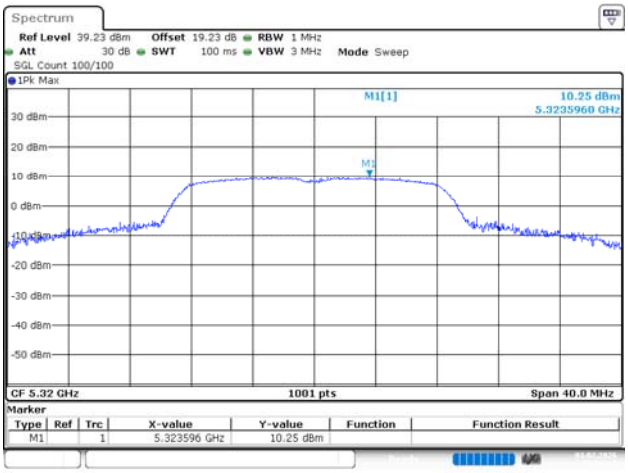

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802.11ac20_5260MHz



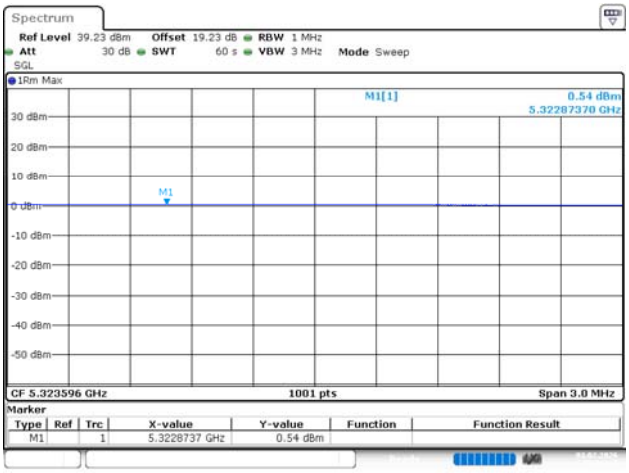

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802.11ac20_5320MHz



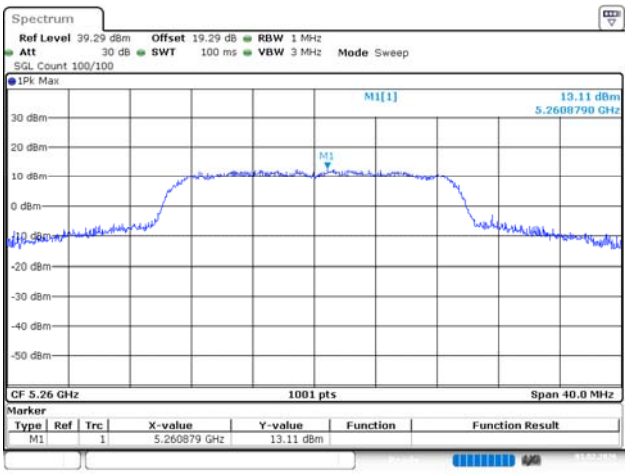

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802.11ac20_5320MHz



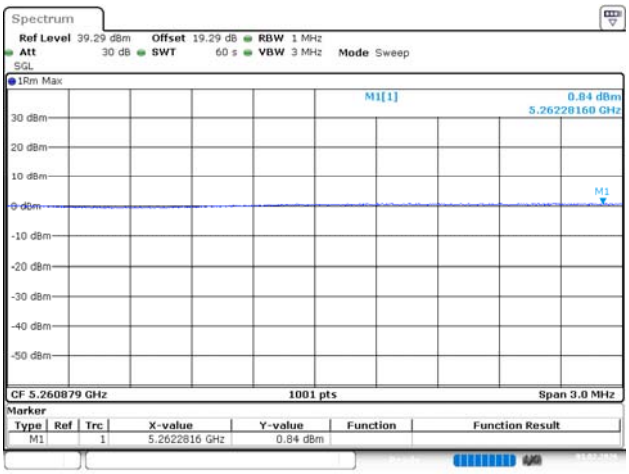

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802.11ax20_5260MHz_RU_Full



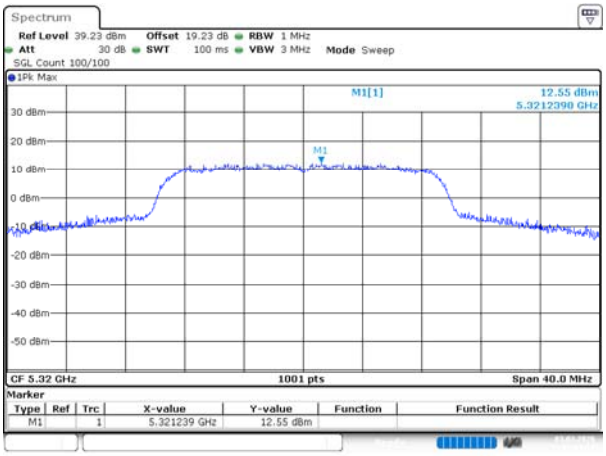

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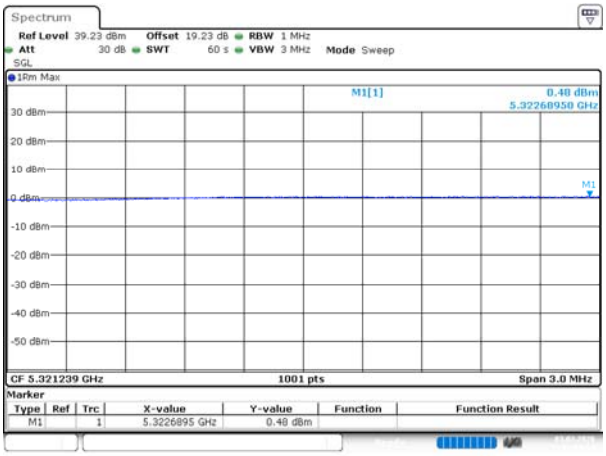



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802.11ax20_5320MHz_RU_Full

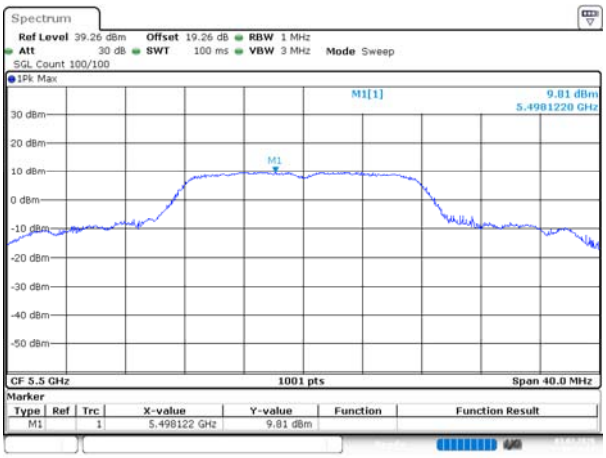



802.11ax20_5320MHz_RU_Full

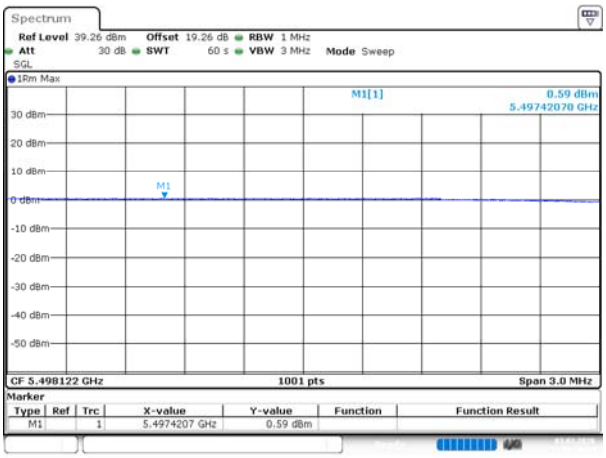



**Band3**

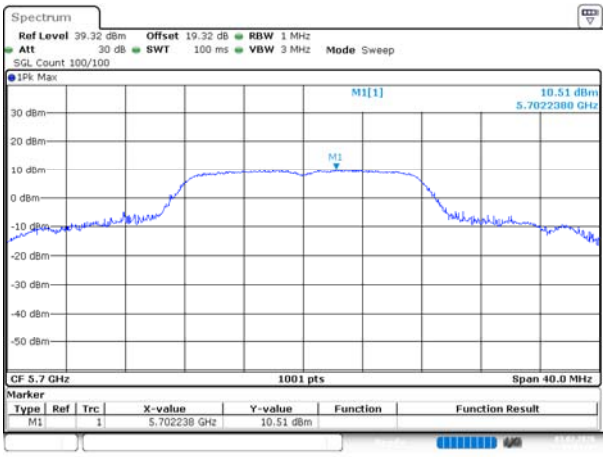
802.11a_5500MHz



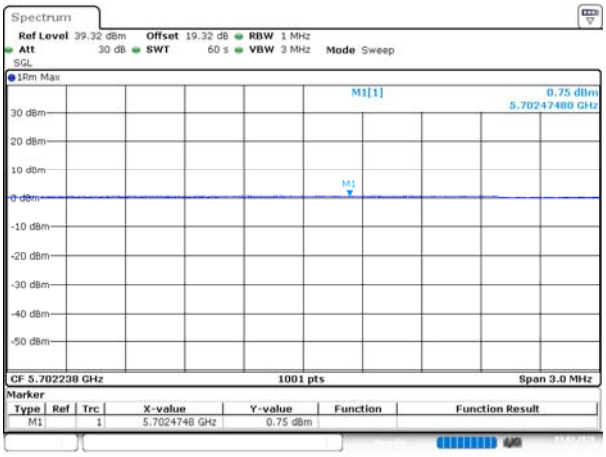

802.11a_5500MHz



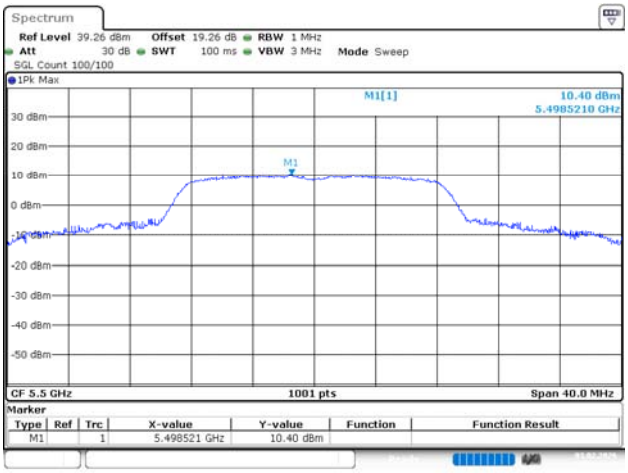

802.11a_5700MHz




802.11a_5700MHz

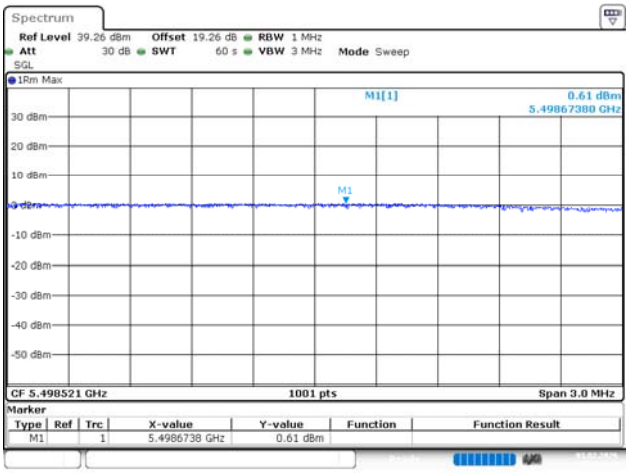


802.11n20_5500MHz



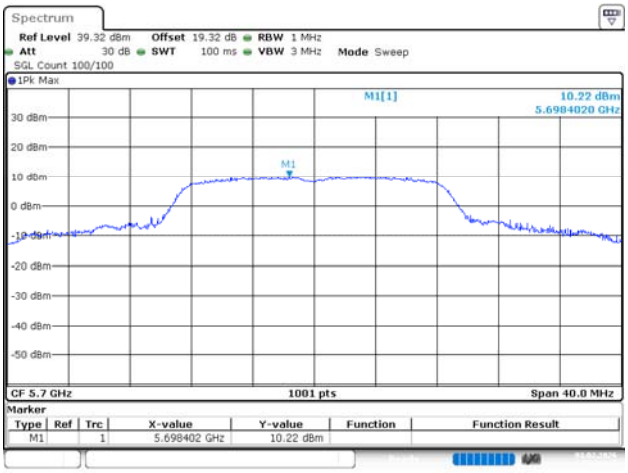

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802.11n20_5500MHz



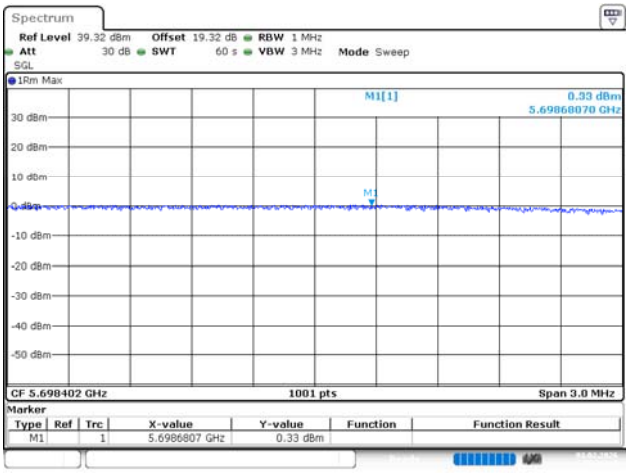

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802.11n20_5700MHz



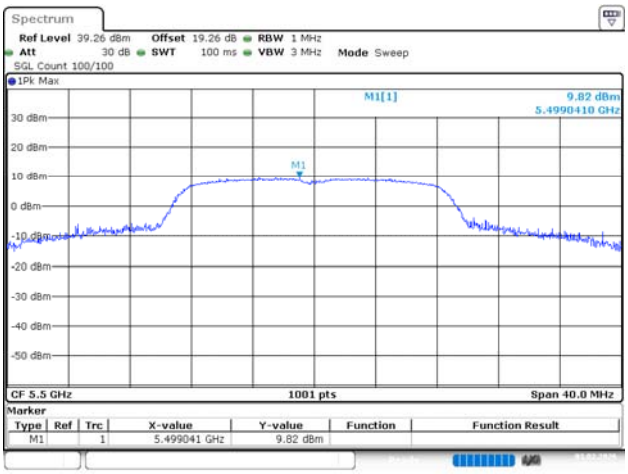

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802.11n20_5700MHz



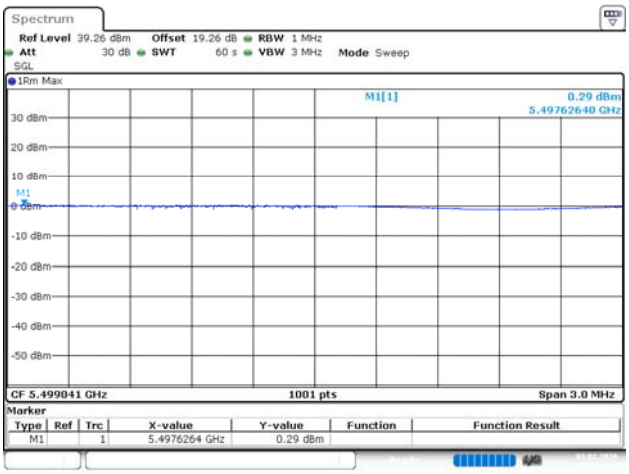

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802.11ac20_5500MHz



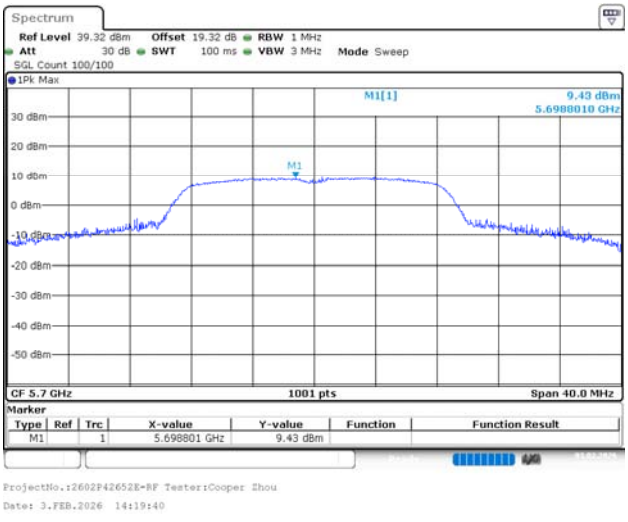

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802.11ac20_5500MHz

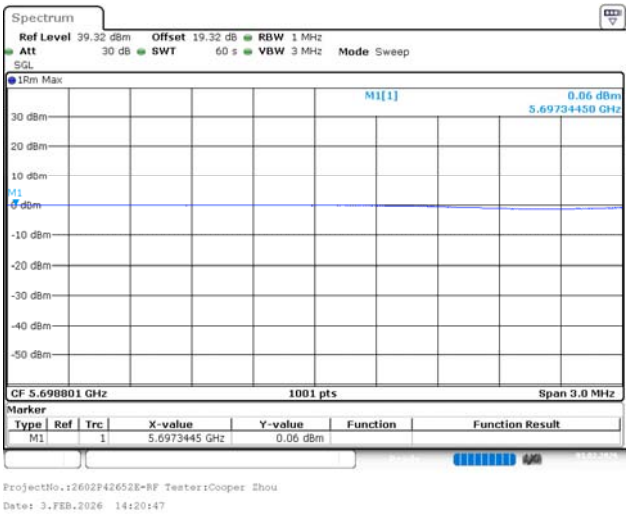



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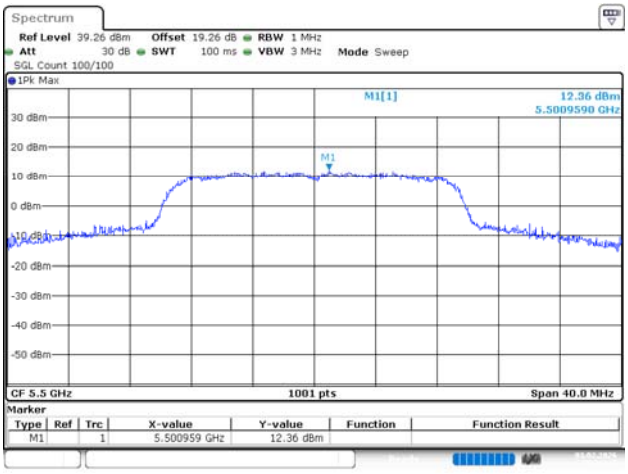
802.11ac20_5700MHz



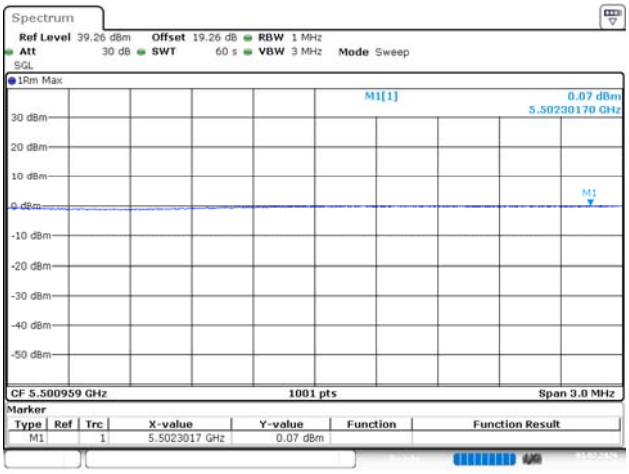

802.11ac20_5700MHz



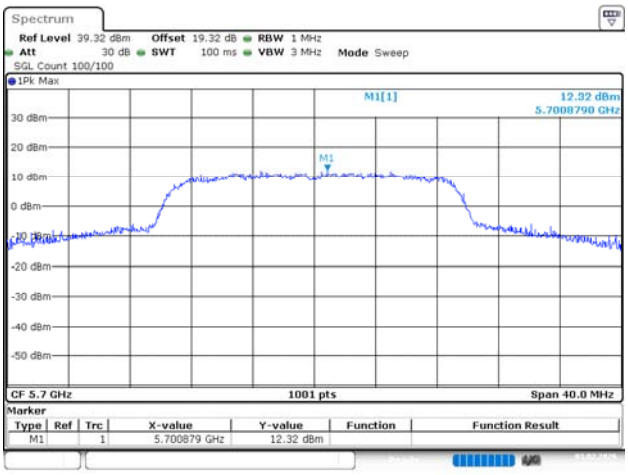

802.11ax20_5500MHz_RU_Full



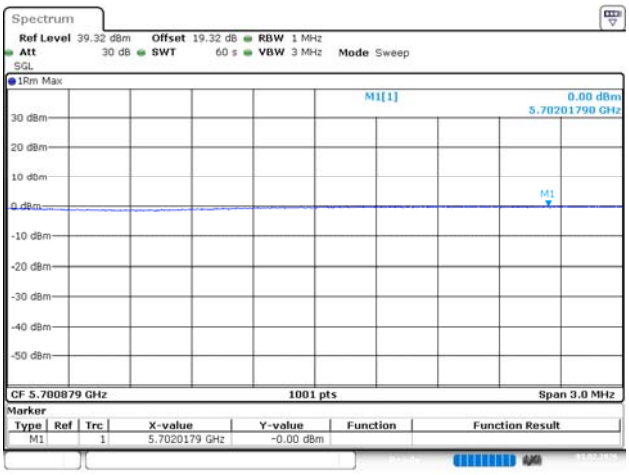

802.11ax20_5500MHz_RU_Full




802.11ax20_5700MHz_RU_Full




802.11ax20_5700MHz_RU_Full




*Note: The offset is equal to the attenuation of the Broadband Wireless Access Device Test Control box plus the cable loss.*

# 4 –TRANSMITTER UNWANTED EMISSIONS OUTSIDE THE TRANSMITTER'S OPERATING BANDS

## Definition

Transmitter unwanted emissions outside the transmitter's operating bands are radio frequency emissions outside the sub-bands of the 5 GHz RLAN band.

## Limit

The level of transmitter unwanted emissions outside the transmitter's operating bands shall not exceed the limits given in table 3.
In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted). For emissions radiated by the cabinet or emissions radiated by integral antenna equipment (without antenna connectors), these limits are ERP for emissions up to 1 GHz and EIRP for emissions above 1 GHz.

**Table 3: Transmitter unwanted emission limits outside the transmitter's operating bands**

| Frequency range | Maximum power | Measurement bandwidth |
|---|---|---|
| 30 MHz ≤ f < 87,5 MHz | -36 dBm | 100 kHz |
| 87,5 MHz ≤ f ≤ 118 MHz | -54 dBm | 100 kHz |
| 118 MHz < f < 174 MHz | -36 dBm | 100 kHz |
| 174 MHz ≤ f ≤ 230 MHz | -54 dBm | 100 kHz |
| 230 MHz < f < 470 MHz | -36 dBm | 100 kHz |
| 470 MHz ≤ f ≤ 694 MHz | -54 dBm | 100 kHz |
| 694 MHz < f ≤ 1 GHz | -36 dBm | 100 kHz |
| 1 GHz < f ≤ 26 GHz | -30 dBm | 1 MHz |
| NOTE: Information in this table is based on ERC Recommendation 74-01 [i.13], Annex 2, Table 6. | | |

## Test method

- ☐ Conducted with connector on UUT
- ☒ Radiated
- ☐ Test fixture relative
- ☐ Test fixture normalized
- ☐ Test fixture level independent

## Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) §5.4.5

## Test Data

***Test Result:*** *Compliant. Pre-scan all modes, worst case please refer to following tables.*

**802.11 a** **5180 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBµV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 109.52 | H | 52.87 | -58.07 | 0.00 | 0.13 | -58.20 | -54.00 | 4.20 |
| 100.25 | V | 52.24 | -66.66 | 0.00 | 0.13 | -66.79 | -54.00 | 12.79 |
| 10360.00 | H | 48.42 | -55.21 | 11.34 | 1.40 | -45.27 | -30.00 | 15.27 |
| 10360.00 | V | 47.62 | -56.63 | 11.34 | 1.40 | -46.69 | -30.00 | 16.69 |
| 4856.70 | H | 59.28 | -52.26 | 10.57 | 0.91 | -42.60 | -30.00 | 12.60 |
| 4856.70 | V | 56.07 | -55.00 | 10.57 | 0.91 | -45.34 | -30.00 | 15.34 |

**802.11 a** **5260 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBµV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 101.64 | H | 48.74 | -63.33 | 0.00 | 0.13 | -63.46 | -54.00 | 9.46 |
| 108.64 | V | 50.41 | -67.47 | 0.00 | 0.13 | -67.60 | -54.00 | 13.60 |
| 10520.00 | H | 48.23 | -55.15 | 11.19 | 1.43 | -45.39 | -30.00 | 15.39 |
| 10520.00 | V | 48.35 | -55.73 | 11.19 | 1.43 | -45.97 | -30.00 | 15.97 |
| 4931.70 | H | 60.48 | -50.66 | 10.48 | 0.92 | -41.10 | -30.00 | 11.10 |
| 4931.70 | V | 56.17 | -54.55 | 10.48 | 0.92 | -44.99 | -30.00 | 14.99 |

**802.11 a** **5500 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBµV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 103.98 | H | 49.27 | -62.46 | 0.00 | 0.13 | -62.59 | -54.00 | 8.59 |
| 102.66 | V | 50.25 | -68.36 | 0.00 | 0.13 | -68.49 | -54.00 | 14.49 |
| 11000.00 | H | 48.41 | -55.50 | 11.00 | 1.63 | -46.13 | -30.00 | 16.13 |
| 11000.00 | V | 47.82 | -56.55 | 11.00 | 1.63 | -47.18 | -30.00 | 17.18 |
| 4468.80 | H | 54.41 | -58.56 | 10.99 | 0.89 | -48.46 | -30.00 | 18.46 |
| 4468.80 | V | 51.96 | -60.74 | 10.99 | 0.89 | -50.64 | -30.00 | 20.64 |

Note 1:The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.
Note 2:
Absolute Level = Substituted Level - Cable loss + Antenna Gain
Margin = Limit- Absolute Level

# 5 –TRANSMITTER UNWANTED EMISSIONS WITHIN THE TRANSMITTER'S OPERATING BANDS

## Definition

Transmitter unwanted emissions within the transmitter's operating bands are radio frequency emissions within the sub-bands of the 5 GHz RLAN band, excluding emissions within the nominal channel bandwidth of channels used for transmission.

## Limit

According to ETSI EN 301 893 V2.2.1 (2024-11) § 4.2.4.2.2

## Test method

- ☐ Conducted with connector on UUT
- ☐ Radiated
- ☐ Test fixture relative
- ☒ Test fixture normalized
- ☐ Test fixture level independent

## Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) §5.4.6

## Test Data

***Test Result:*** *Compliant. Please refer to as below.*

**Band1, Test Condition: NV**

| Test Mode | Antenna | Freq. | Result (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5180 | See test graph | See test graph | Pass |
| | | 5240 | See test graph | See test graph | Pass |
| 802.11n20 | Chain 0 | 5180 | See test graph | See test graph | Pass |
| | | 5240 | See test graph | See test graph | Pass |
| 802.11ac20 | Chain 0 | 5180 | See test graph | See test graph | Pass |
| | | 5240 | See test graph | See test graph | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5180 | See test graph | See test graph | Pass |
| | | 5240 | See test graph | See test graph | Pass |

**Band2, Test Condition: NV**

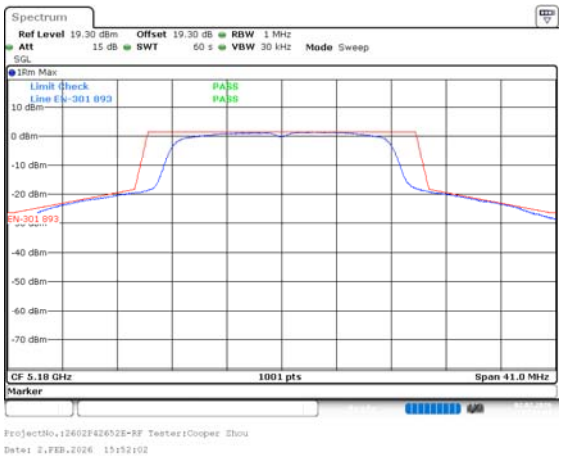
| Test Mode | Antenna | Freq. | Result (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5260 | See test graph | See test graph | Pass |
| | | 5320 | See test graph | See test graph | Pass |
| 802.11n20 | Chain 0 | 5260 | See test graph | See test graph | Pass |
| | | 5320 | See test graph | See test graph | Pass |
| 802.11ac20 | Chain 0 | 5260 | See test graph | See test graph | Pass |
| | | 5320 | See test graph | See test graph | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5260 | See test graph | See test graph | Pass |
| | | 5320 | See test graph | See test graph | Pass |

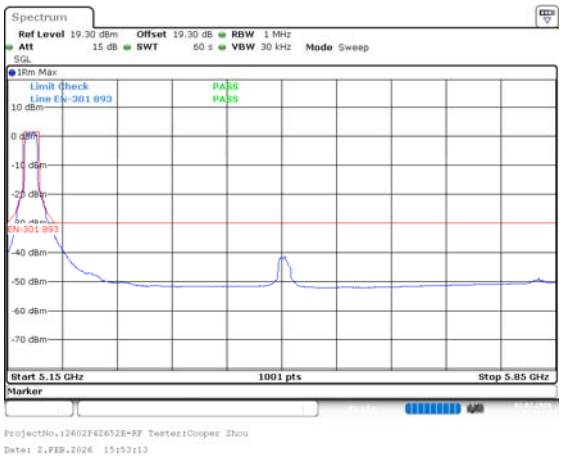
**Band3, Test Condition: NV**

| Test Mode | Antenna | Freq. | Result (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| 802.11a | Chain 0 | 5500 | See test graph | See test graph | Pass |
| | | 5700 | See test graph | See test graph | Pass |
| 802.11n20 | Chain 0 | 5500 | See test graph | See test graph | Pass |
| | | 5700 | See test graph | See test graph | Pass |
| 802.11ac20 | Chain 0 | 5500 | See test graph | See test graph | Pass |
| | | 5700 | See test graph | See test graph | Pass |
| 802.11ax20_RU_Full | Chain 0 | 5500 | See test graph | See test graph | Pass |
| | | 5700 | See test graph | See test graph | Pass |

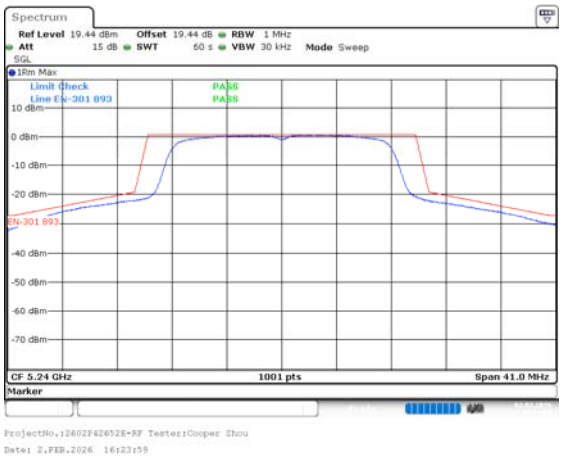
## Band1, Test Condition: NV

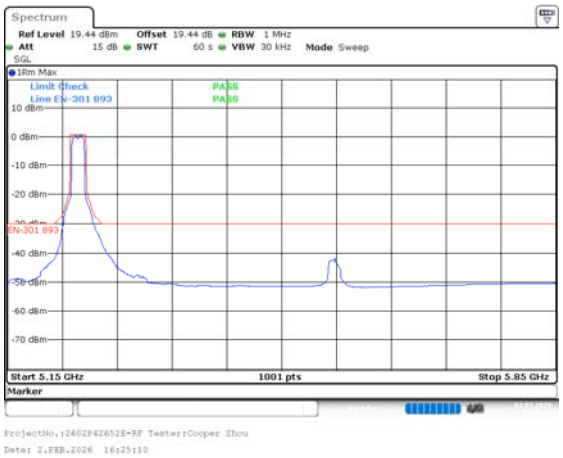
**802.11a_5180MHz**



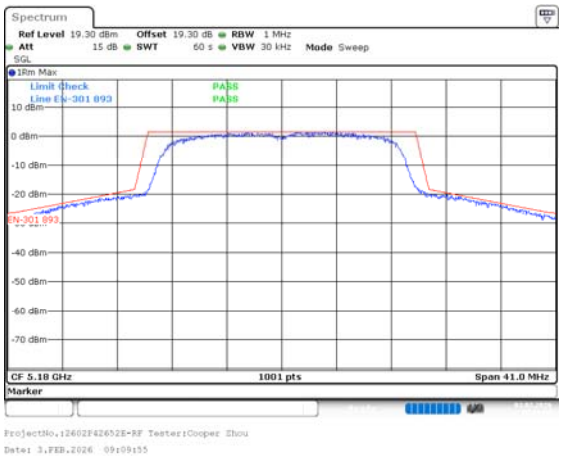



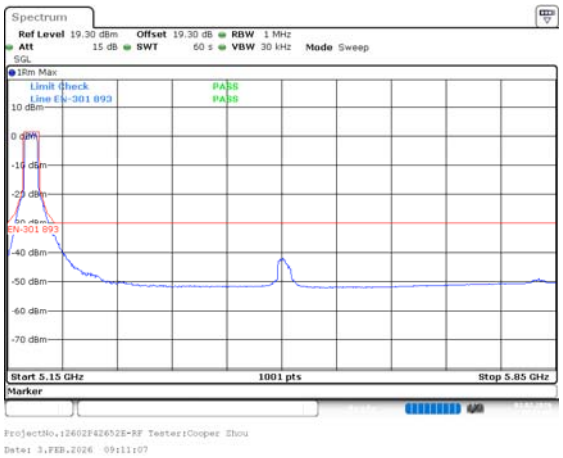

**802.11a_5240MHz**



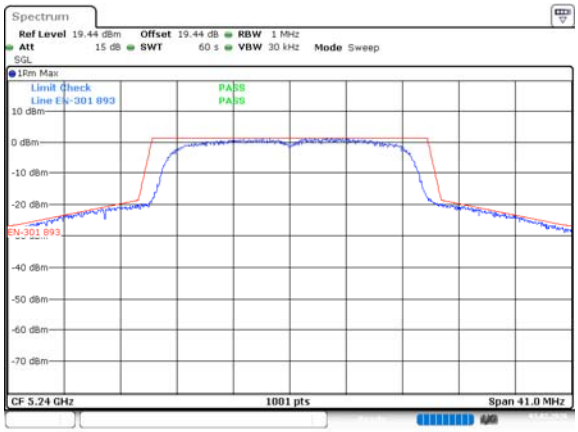



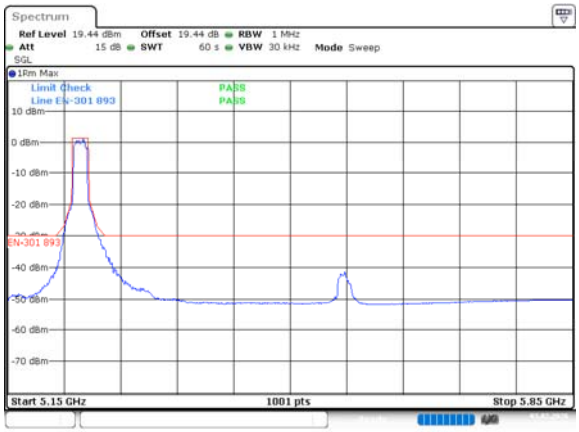

**802.11n20_5180MHz**



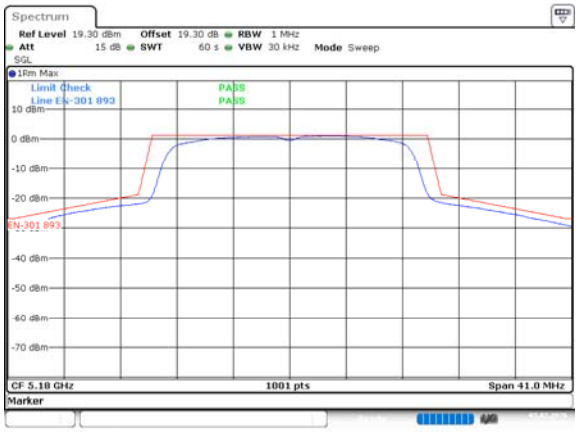



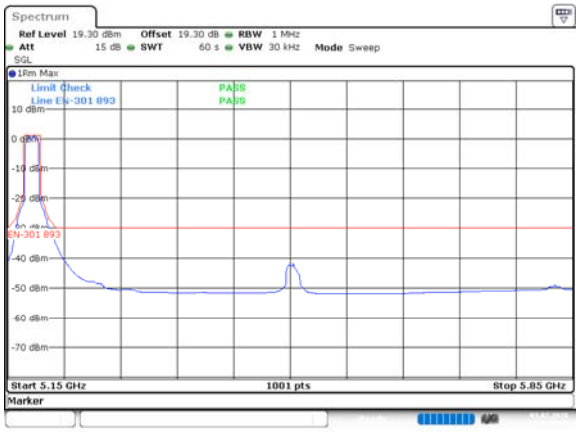
**802.11n20_5240MHz**



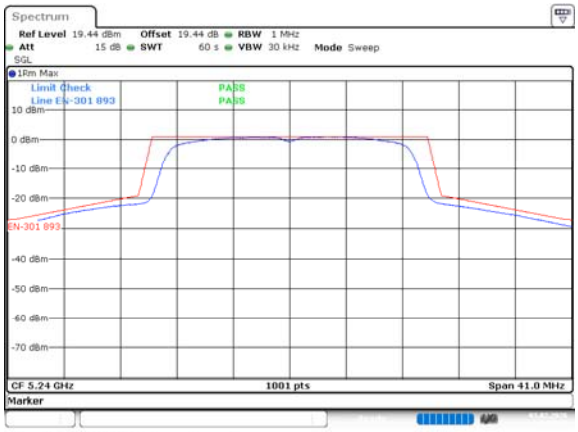



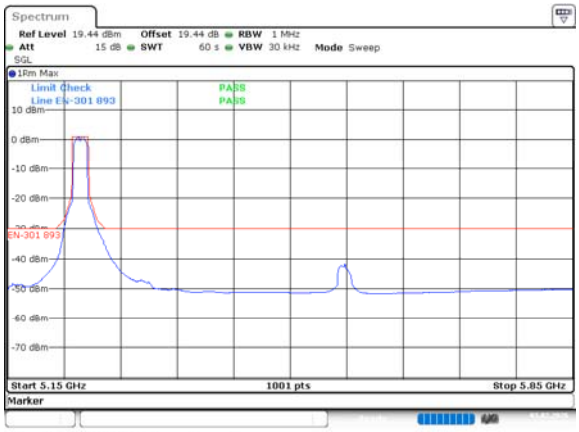

**802.11ac20_5180MHz**



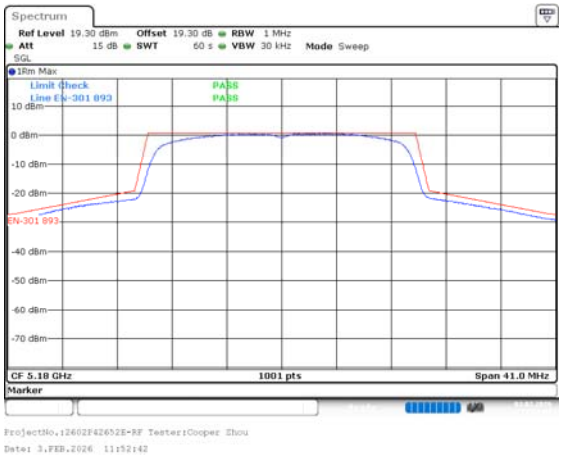



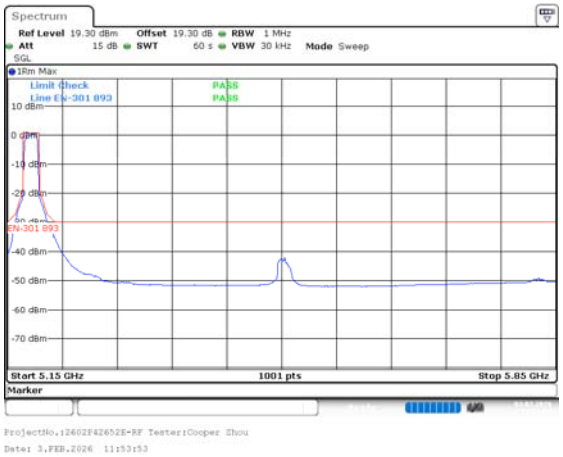

**802.11ac20_5240MHz**



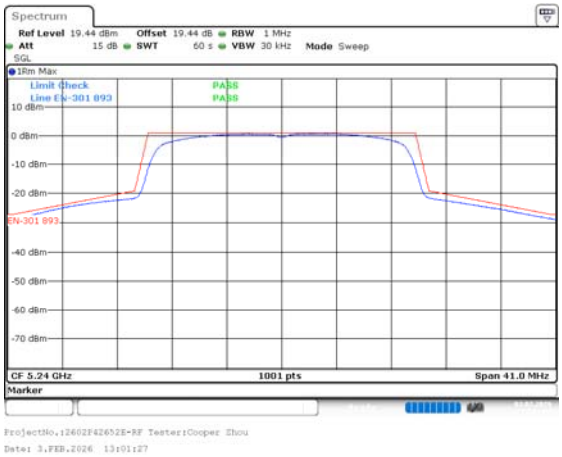



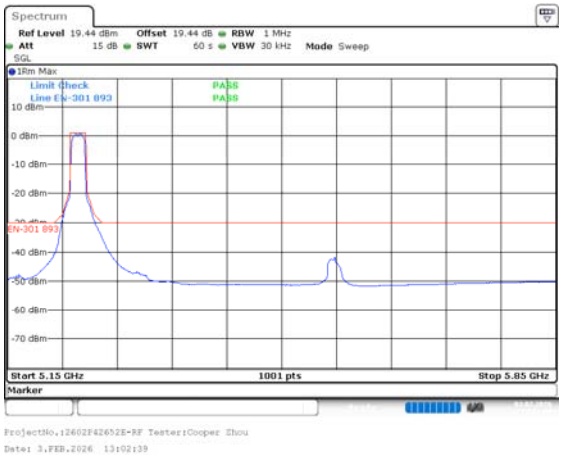
**802.11ax20_5180MHz_RU_Full**



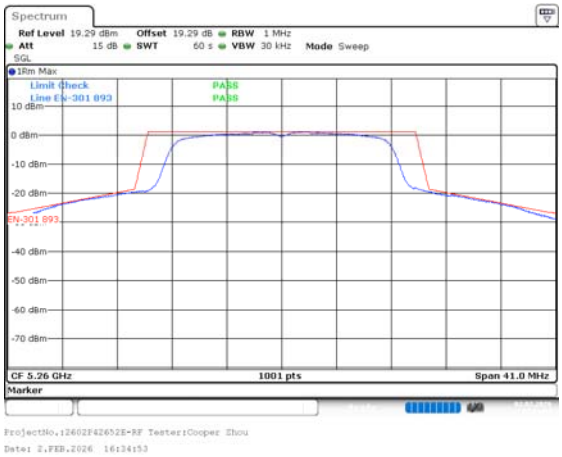

**802.11ax20_5240MHz_RU_Full**

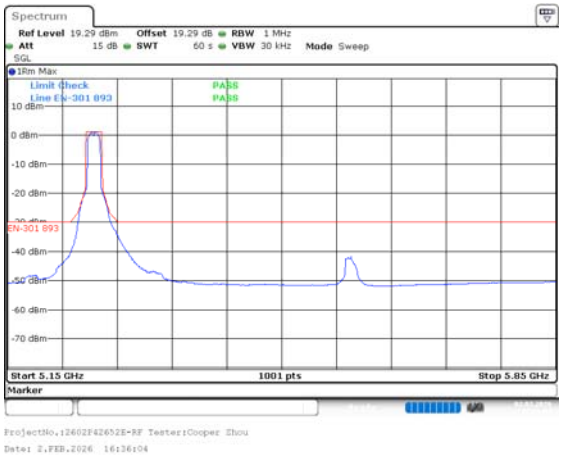


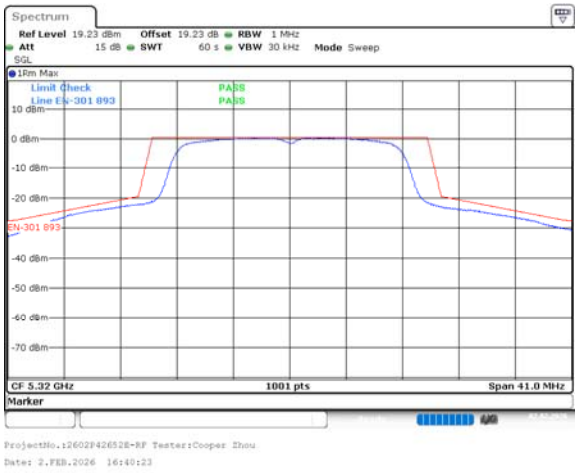

**Band2, Test Condition: NV**

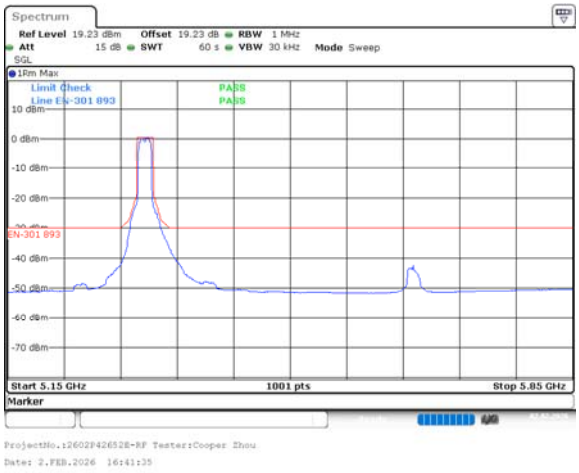
**802.11a_5260MHz**



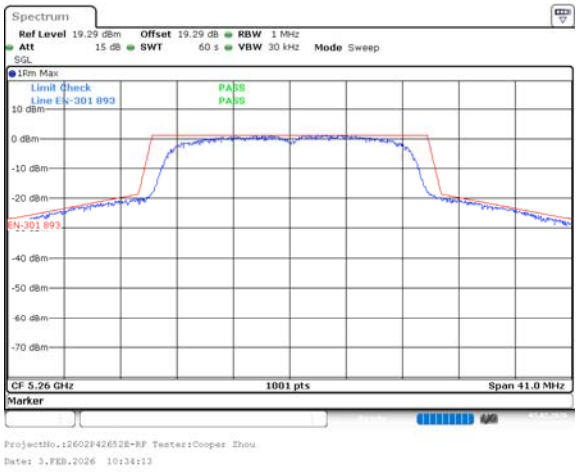



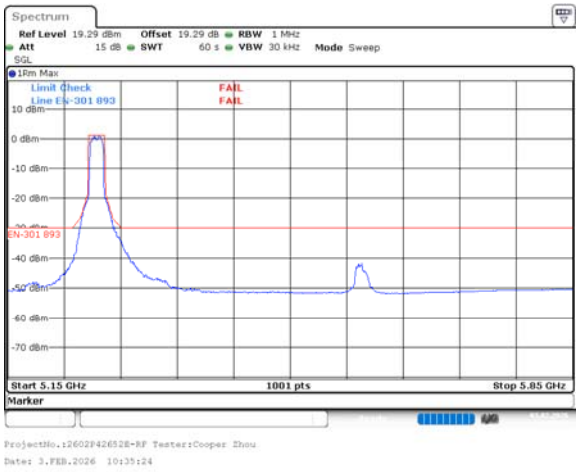
**802.11a_5320MHz**



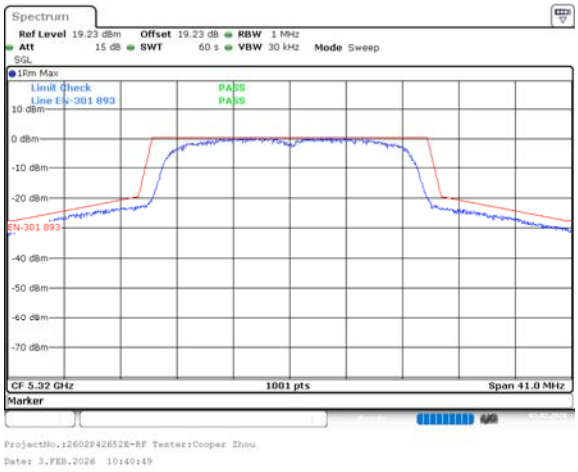



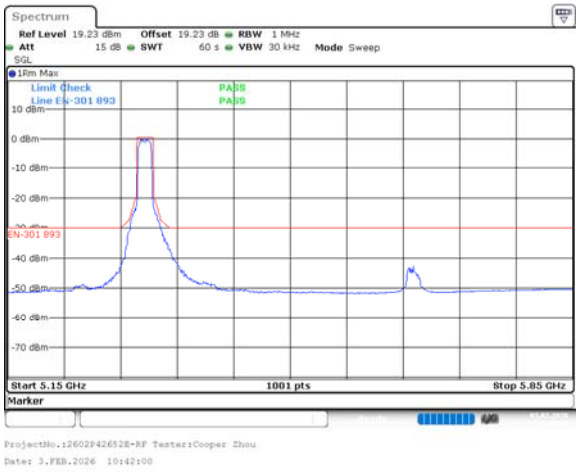

**802.11n20_5260MHz**



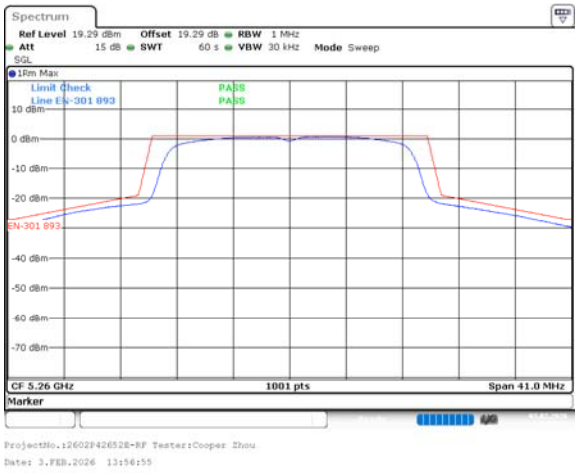



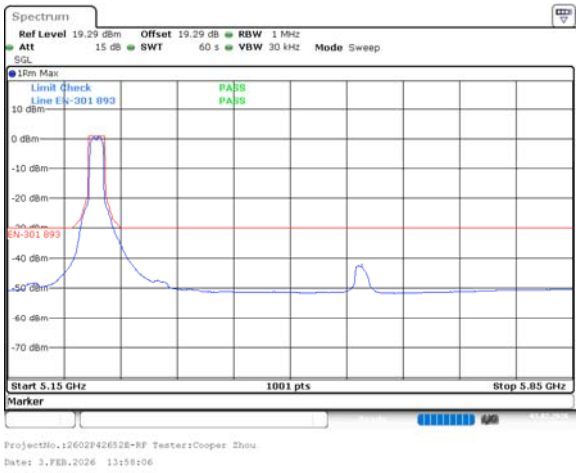

**802.11n20_5320MHz**



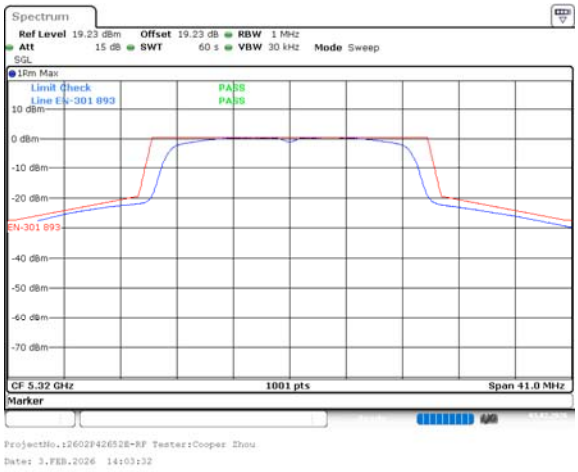



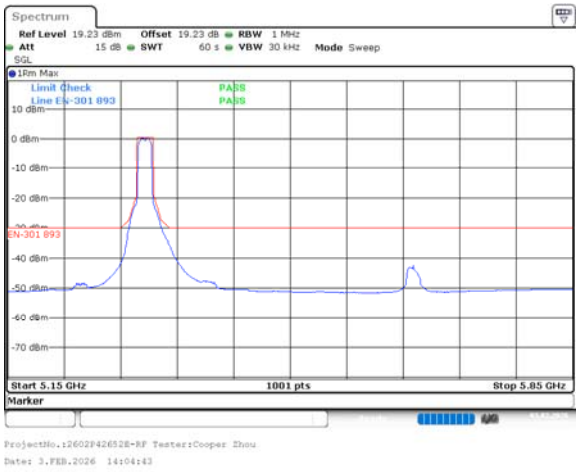
**802.11ac20_5260MHz**



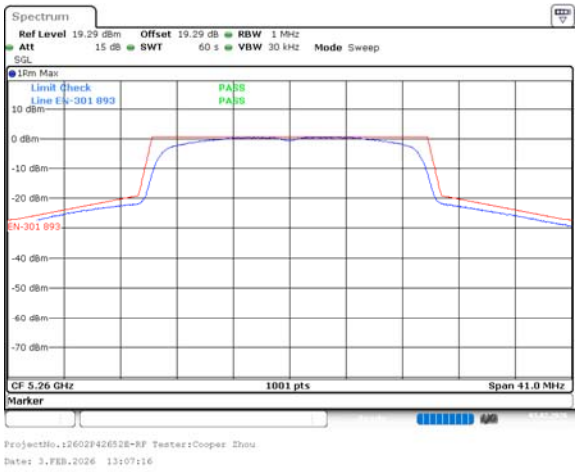



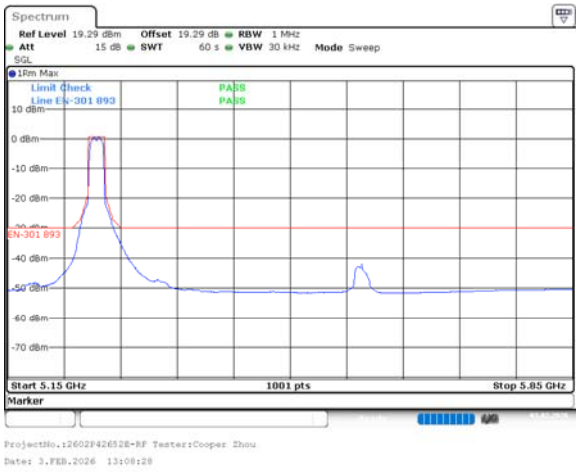

**802.11ac20_5320MHz**



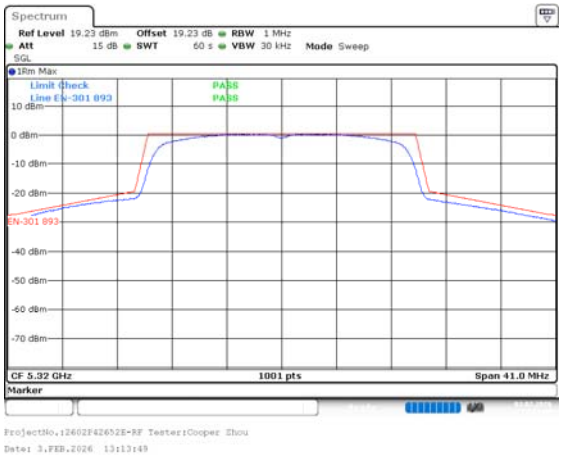



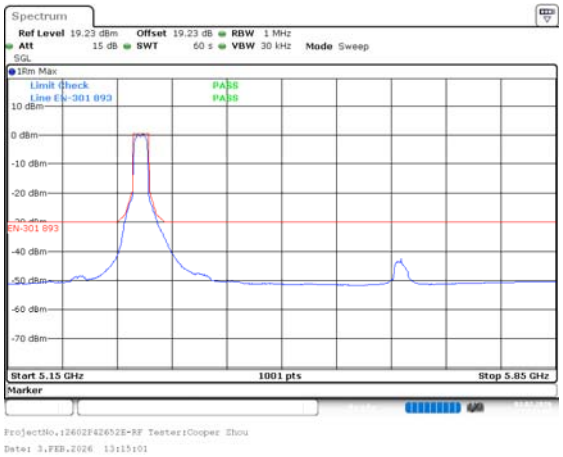

**802.11ax20_5260MHz_RU_Full**



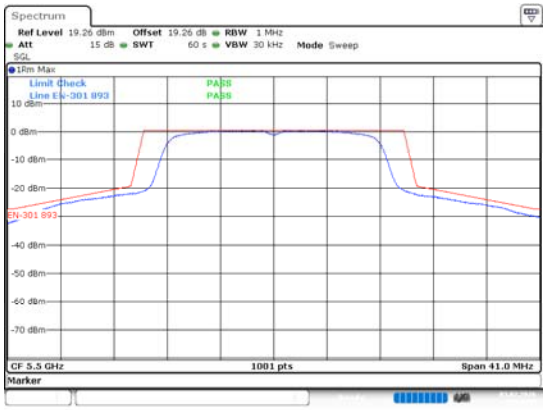
**802.11ax20_5320MHz_RU_Full**

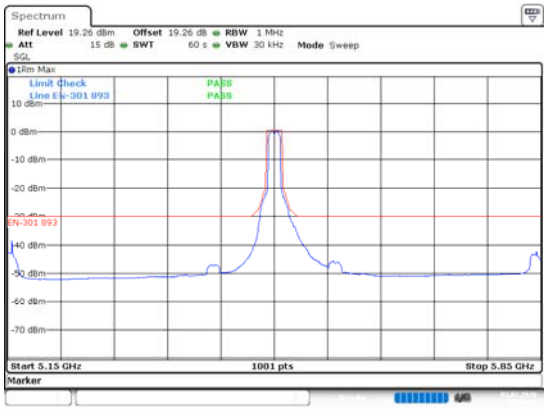


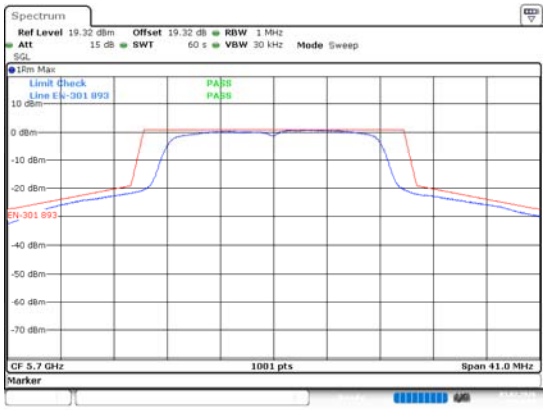

## Band3, Test Condition: NV

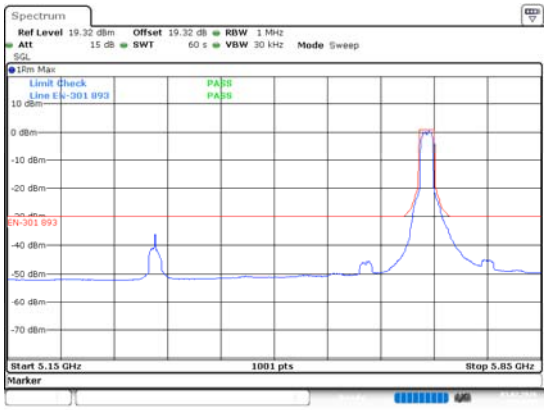
**802.11a_5500MHz**



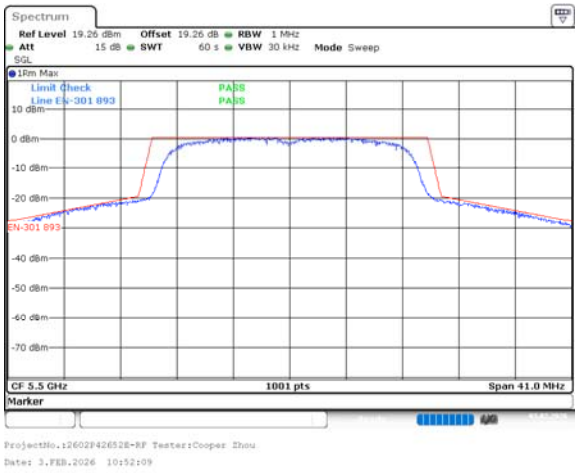



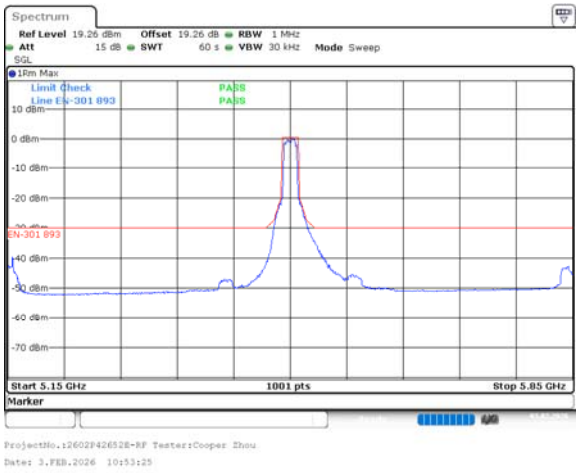

**802.11a_5700MHz**



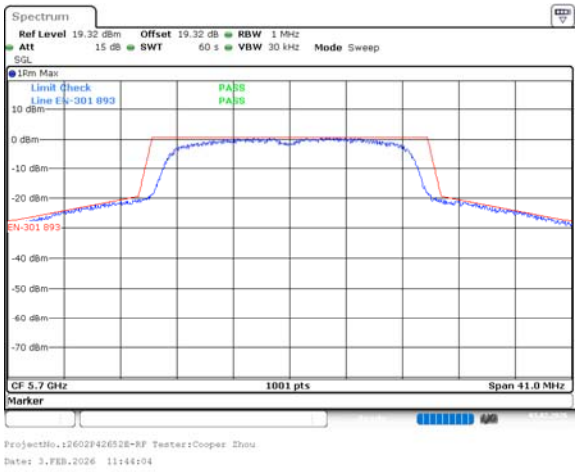



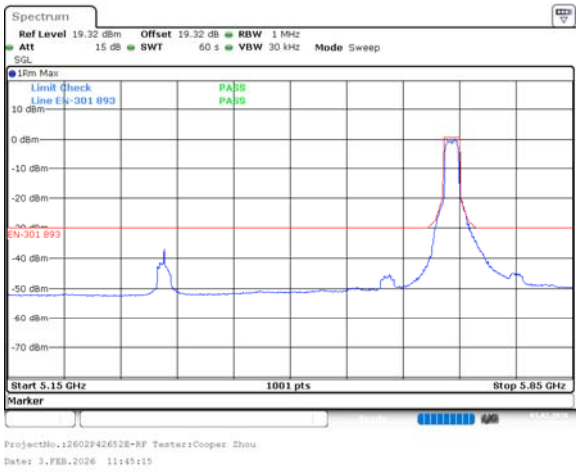
**802.11n20_5500MHz**



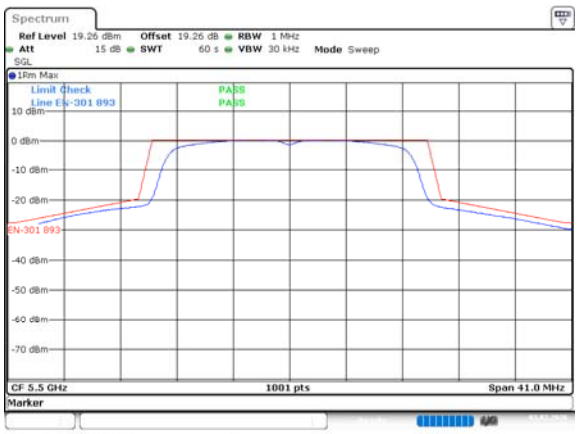



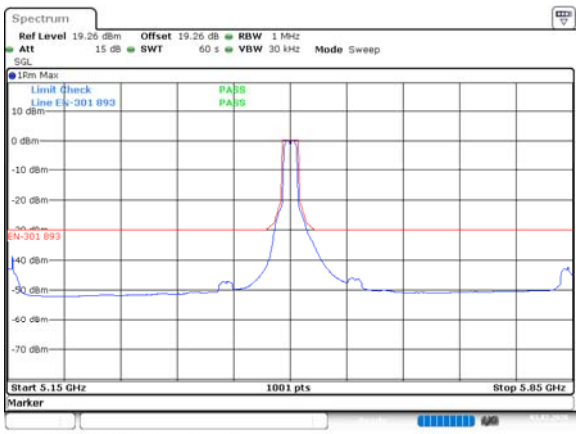

**802.11n20_5700MHz**



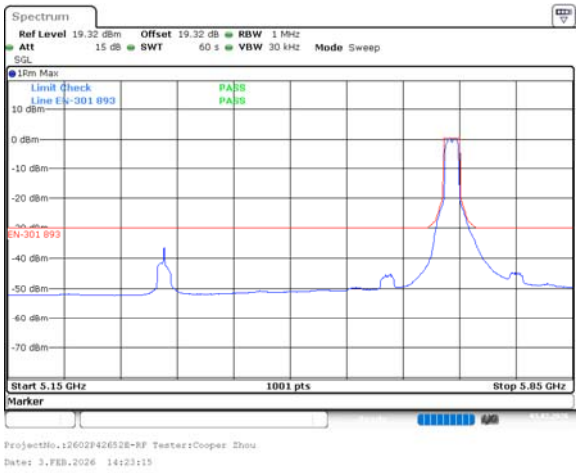

**802.11ac20_5500MHz**



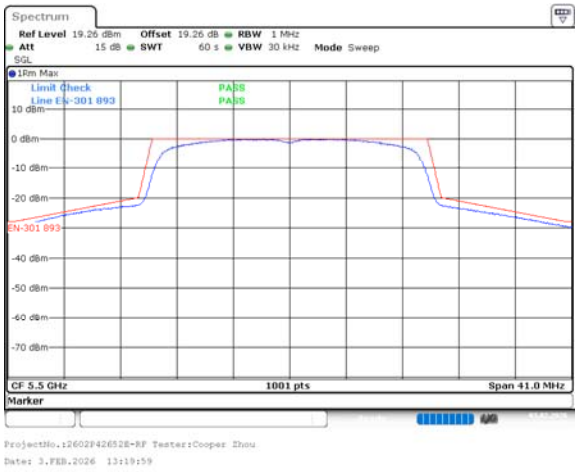



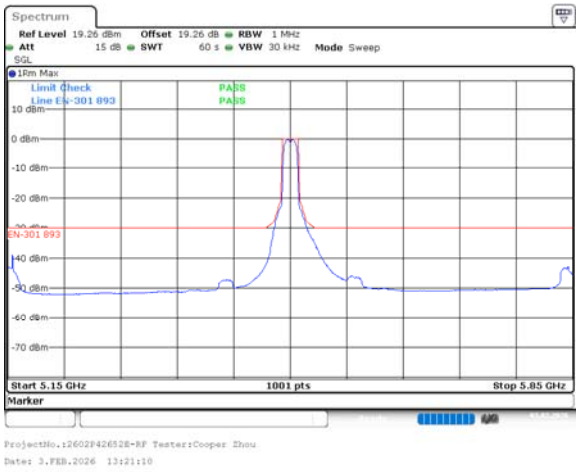
**802.11ac20_5700MHz**



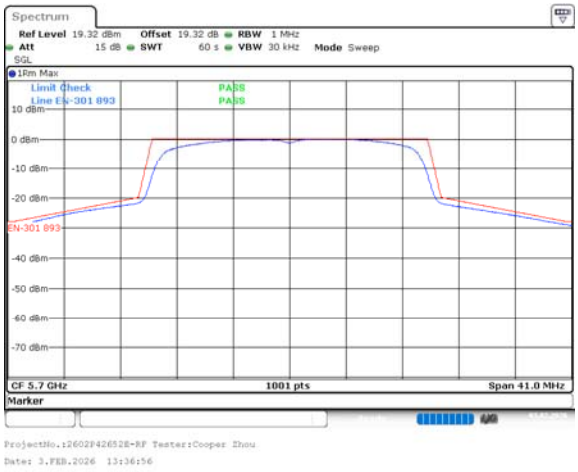



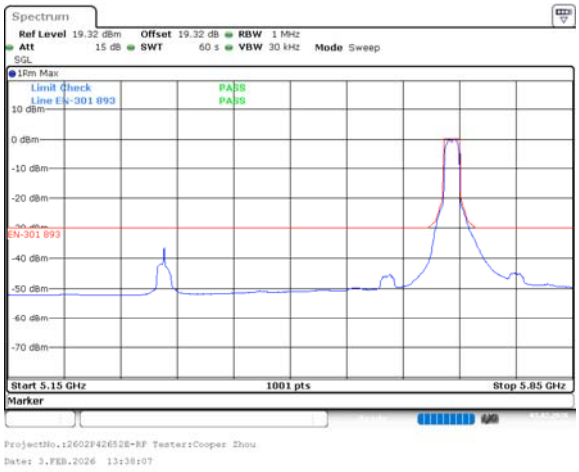

**802.11ax20_5500MHz_RU_Full**




**802.11ax20_5700MHz_RU_Full**




*Note: The offset is equal to the attenuation of the Broadband Wireless Access Device Test Control box plus the cable loss.*

# 6 – RECEIVER SPURIOUS EMISSIONS

## Definition

Receiver spurious emissions are emissions at any frequency when the equipment is in receive mode.

## Limit

The receiver spurious emissions shall not exceed the limits given in table 4.
In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted). For emissions radiated by the cabinet or emissions radiated by integral antenna equipment (without antenna connectors), these limits are ERP for emissions up to 1 GHz and EIRP for emissions above 1 GHz.

**Table 4: Spurious radiated emission limits**

| Frequency range | Maximum power | Measurement bandwidth |
|---|---|---|
| 30 MHz ≤ f ≤ 1 GHz | -57 dBm | 100 kHz |
| 1 GHz < f ≤ 26 GHz | -47 dBm | 1 MHz |
| NOTE: Information in this table is based on ERC Recommendation 74-01 [i.13], Annex 2, Table 6. | | |

## Test method

- ☐ Conducted with connector on UUT
- ☒ Radiated
- ☐ Test fixture relative
- ☐ Test fixture normalized
- ☐ Test fixture level independent

## Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) §5.4.7

## Test Data

***Test Result:*** *Compliant. Pre-scan all modes, worst case please refer to following tables.*

**802.11 a** **5180 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBµV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 101.88 | H | 38.95 | -73.08 | 0.00 | 0.13 | -73.21 | -57.00 | 16.21 |
| 102.61 | V | 40.18 | -78.43 | 0.00 | 0.13 | -78.56 | -57.00 | 21.56 |
| 2805.50 | H | 50.14 | -64.71 | 9.81 | 0.69 | -55.59 | -47.00 | 8.59 |
| 1353.50 | V | 49.35 | -65.82 | 8.35 | 0.38 | -57.85 | -47.00 | 10.85 |

**802.11 a** **5260 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBµV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 104.48 | H | 39.88 | -71.78 | 0.00 | 0.13 | -71.91 | -57.00 | 14.91 |
| 105.94 | V | 40.05 | -78.16 | 0.00 | 0.13 | -78.29 | -57.00 | 21.29 |
| 2017.70 | H | 49.30 | -64.95 | 9.97 | 0.56 | -55.54 | -47.00 | 8.54 |
| 1428.60 | V | 49.51 | -66.33 | 8.79 | 0.38 | -57.92 | -47.00 | 10.92 |

**802.11 a** **5500 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBµV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 101.41 | H | 41.65 | -70.45 | 0.00 | 0.13 | -70.58 | -57.00 | 13.58 |
| 102.59 | V | 40.28 | -78.34 | 0.00 | 0.13 | -78.47 | -57.00 | 21.47 |
| 1953.80 | H | 49.75 | -64.54 | 9.93 | 0.54 | -55.15 | -47.00 | 8.15 |
| 1547.50 | V | 49.38 | -67.48 | 9.28 | 0.41 | -58.61 | -47.00 | 11.61 |

Note 1:The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.
Note 2:
Absolute Level = Substituted Level - Cable loss + Antenna Gain
Margin = Limit- Absolute Level

# 8 –ADAPTIVITY (CHANNEL ACCESS MECHANISM)

## Applicable Standard

Adaptivity (Channel Access Mechanism) is an automatic mechanism by which a device limits its transmissions and gains access to an Operating Channel.

§4.2.7.3.1 Frame Based Equipment:

Frame Based Equipment shall implement a Listen Before Talk (LBT) based Channel Access Mechanism to detect the presence of other RLAN transmissions on an Operating Channel.

§4.2.7.3.2 Load Based Equipment:

Load based Equipment shall implement a Listen Before Talk (LBT) based Channel Access Mechanism to detect the presence of other RLAN transmissions on an Operating Channel.

## Limit

According to ETSI EN 301 893 V2.2.1 (2024-11) §4.2.7.3.1&§4.2.7.3.2

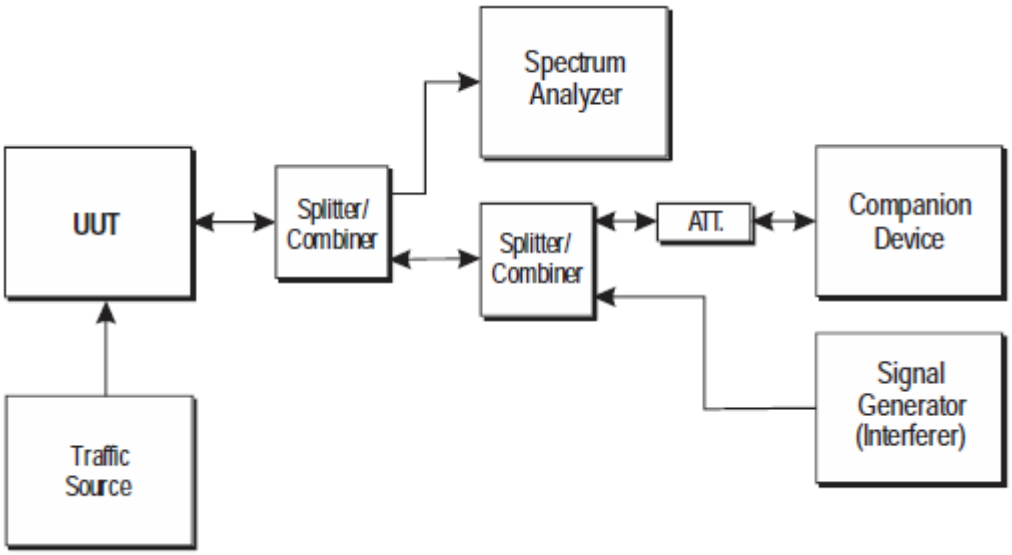
## Test method

- ☐ Conducted with connector on UUT
- ☐ Radiated
- ☐ Test fixture relative
- ☒ Test fixture normalized
- ☐ Test fixture level independent

## Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) §5.4.9

## Block Diagram of Test Setup



## Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|---|---|---|---|
| Lenovo | Laptop | T430 | AA887-03 |
| Tenda | Router | W18E | E9382010341000028 |

## Test Data

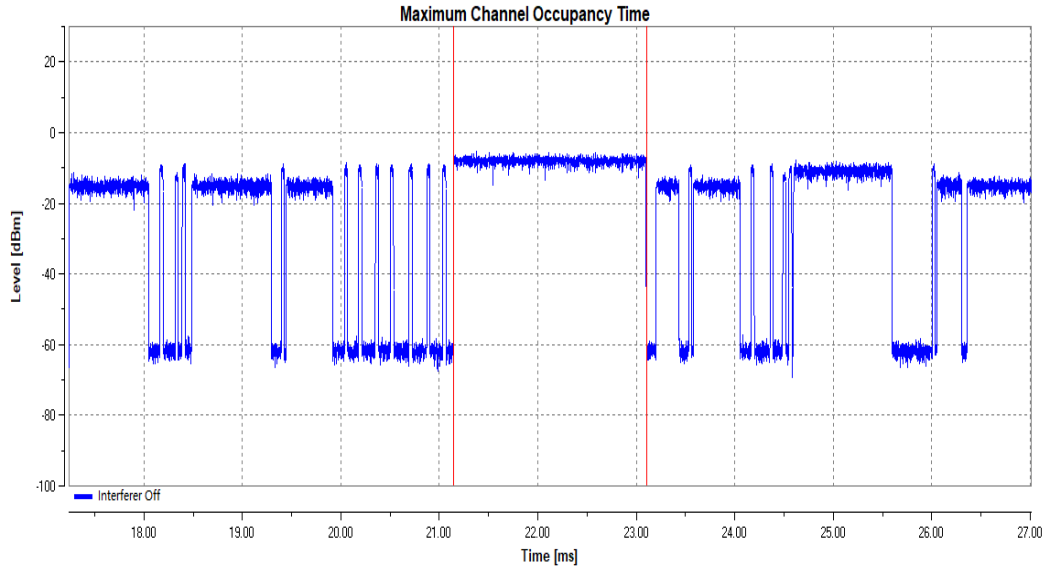
***Test Result:*** *Compliant. Please refer to following tables.*

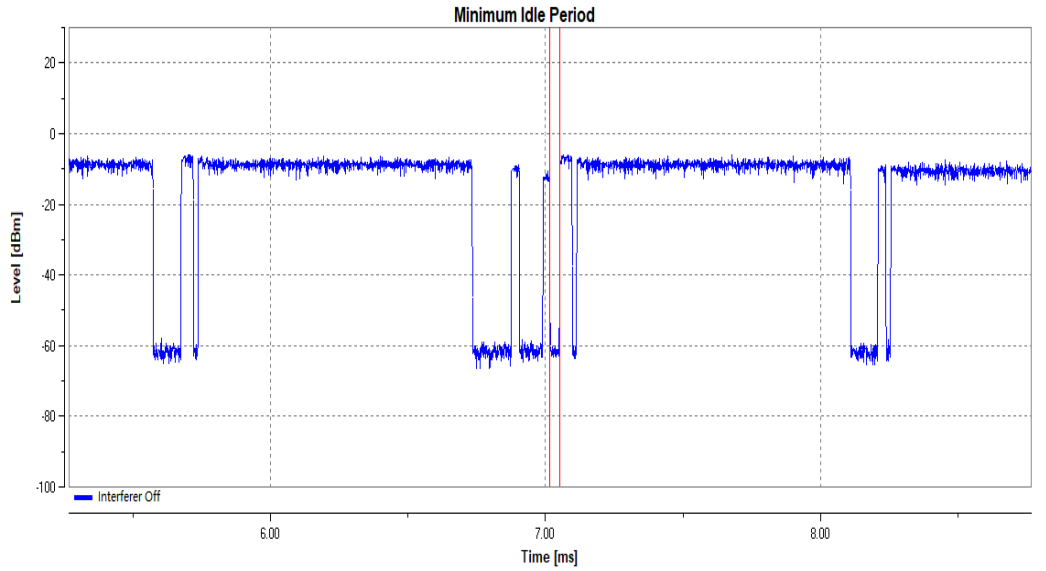
| Test Mode | Ant. | Channel | Priority Class | Max. COT [ms] | Limit [ms] | Min.Idle Time[ms] | Limit [ms] | Idle Period probability | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| 11N20SISO | Ant1 | 5180 | 3 | 1.954 | 4.000 | 0.035 | 0.027 | See the graph | PASS |

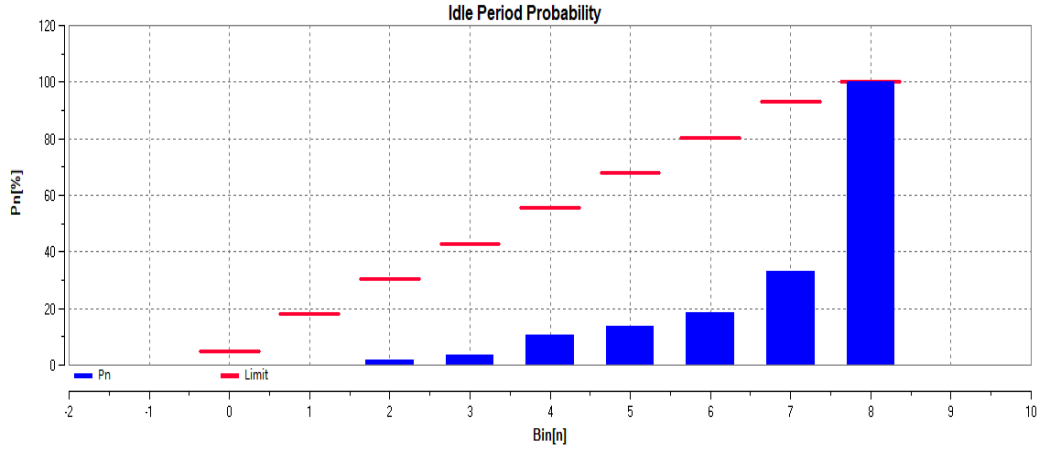
| Test Mode | Ant. | Channel | Interference Type | Add interference Time[ms] | Interference Level [dBm/MHz] | Max.Short Control number[n] | Limit [n] | Max.Short Control Time[ms] | Limit [ms] | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 11N20SISO | Ant1 | 5180 | AWGN | 2100 | -71.60 | 1 | 50 | 0.10 | 2.5 | PASS |
| | | | OFDM | 2100 | -71.60 | 1 | 50 | 1.10 | 2.5 | PASS |
| | | | LTE | 2100 | -71.60 | 16 | 50 | 1.90 | 2.5 | PASS |

*Please refer to following plots:*

11N20SISO_Ant1_5180

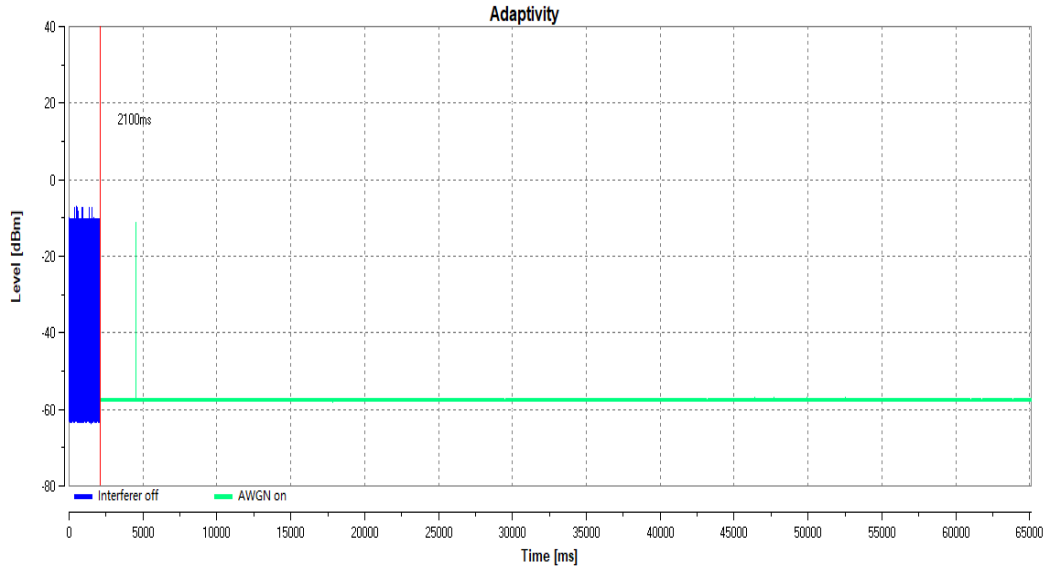


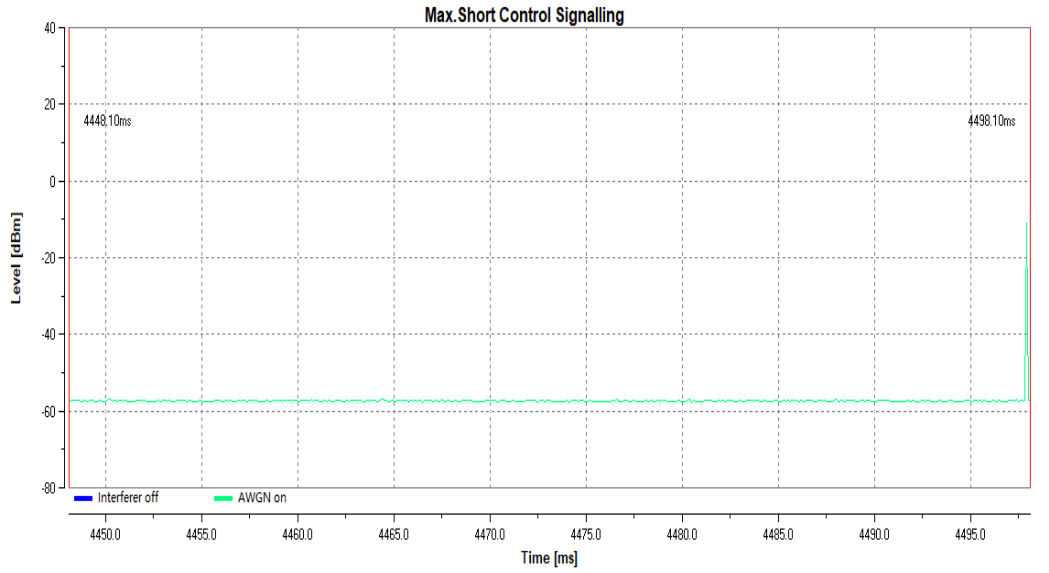



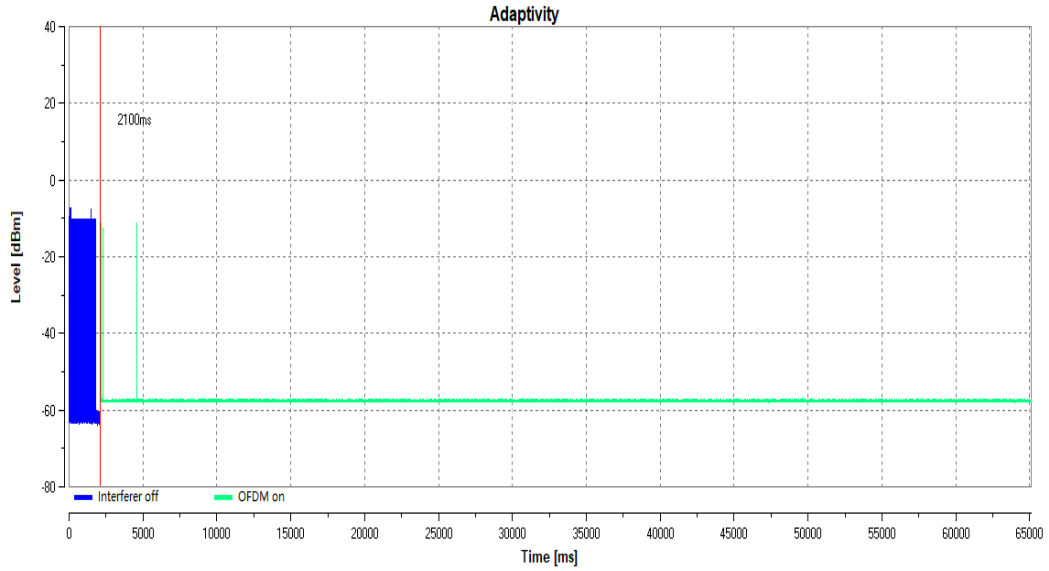

| n | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| B[n] | 0 | 0 | 20 | 15 | 75 | 29 | 51 | 154 | 689 |
| P[n] | 0 | 0 | 1.94 | 3.39 | 10.65 | 13.46 | 18.39 | 33.3 | 100 |
| Limit | 5 | 18 | 30.5 | 43 | 55.5 | 68 | 80.5 | 93 | 100 |

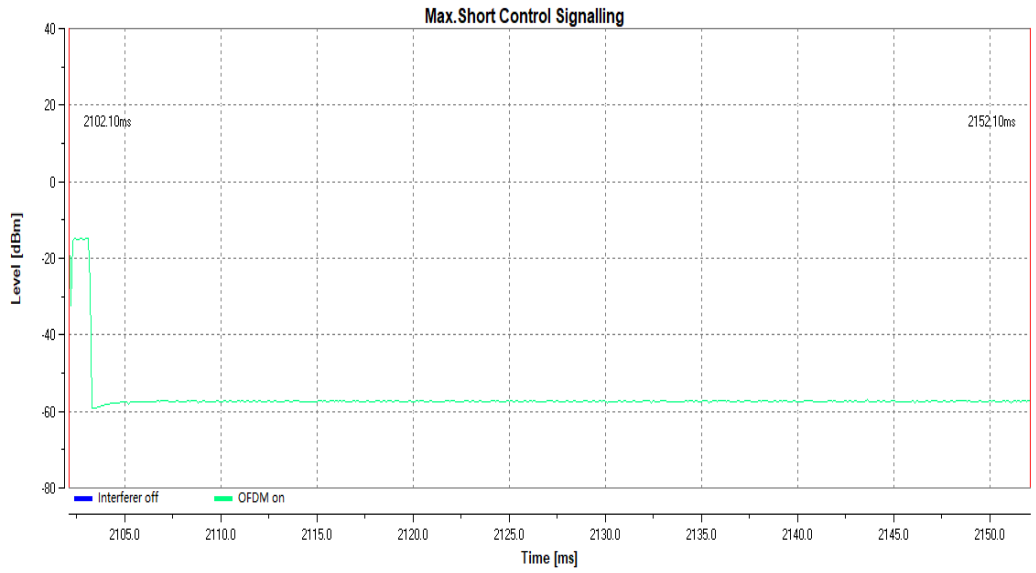
11N20SISO_Ant1_5180



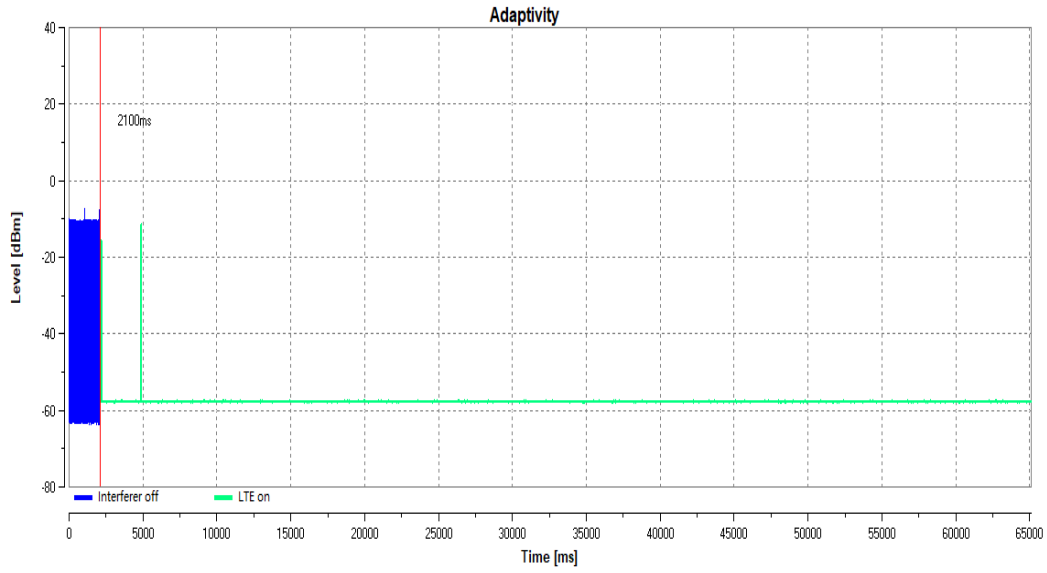



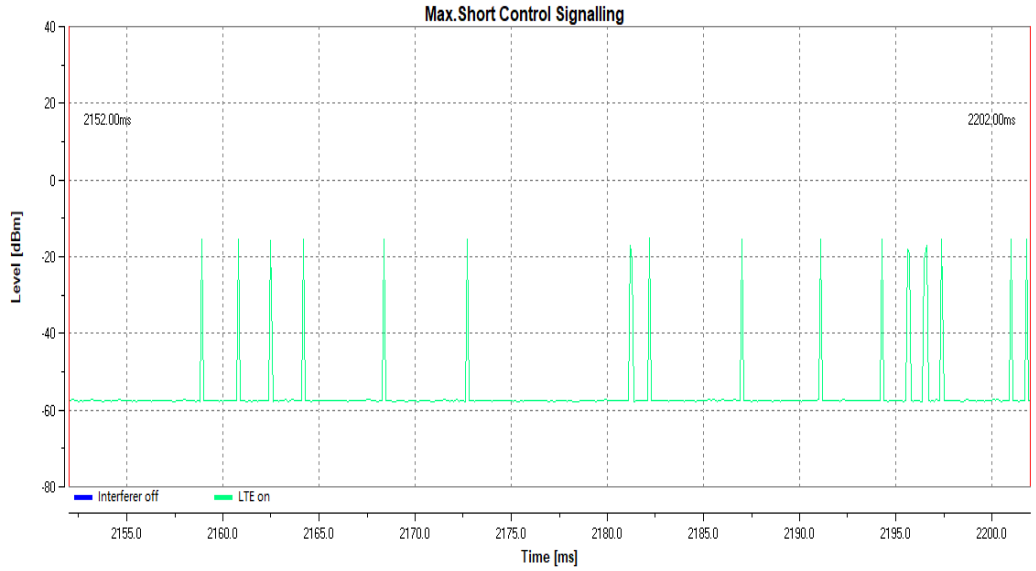

11N20SISO_Ant1_5180






11N20SISO_Ant1_5180



# 9 – RECEIVER BLOCKING

## Applicable Standard

Receiver blocking is a measure of the capability of the equipment to receive a wanted signal on its usable channels without exceeding a given degradation due to the presence of an unwanted input signal (blocking signal) on frequencies other than those of the operating bands.

## Limit

For equipment that supports a PER or FER test to be performed, the minimum performance criterion shall be a PER or FER less than or equal to 10 %.
For equipment that does not support a PER or a FER test to be performed, the minimum performance criterion shall be no loss of the wireless transmission function needed for the intended use of the equipment.

While maintaining the minimum performance criteria as defined in clause 4.2.8.3, the blocking levels at specified frequency offsets shall be equal to or greater than the limits given in table 8.

**Table 8: Receiver blocking parameters**

| Wanted signal mean power from companion device (dBm) | Blocking signal frequency (MHz) | Blocking signal power | | Type of blocking signal |
|---|---|---|---|---|
| | | Primary device or secondary device with radar detection (see note 2 in table D.2) (dBm) | Secondary device without radar detection (see note 2 in table D.2) (dBm) | |
| $P_{min}$ + 6 dB | 5 100 | -53 | -59 | Continuous wave |
| $P_{min}$ + 6 dB | 4 900<br>5 000<br>5 975 | -47 | -53 | Continuous wave |
| NOTE: $P_{min}$ is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined clause 4.2.8.3 in the absence of any blocking signal. | | | | |

## Test method

- ☐ Conducted with connector on UUT
- ☐ Radiated
- ☐ Test fixture relative
- ☒ Test fixture normalized
- ☐ Test fixture level independent

## Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) §5.4.10

**Block Diagram of Test Setup**

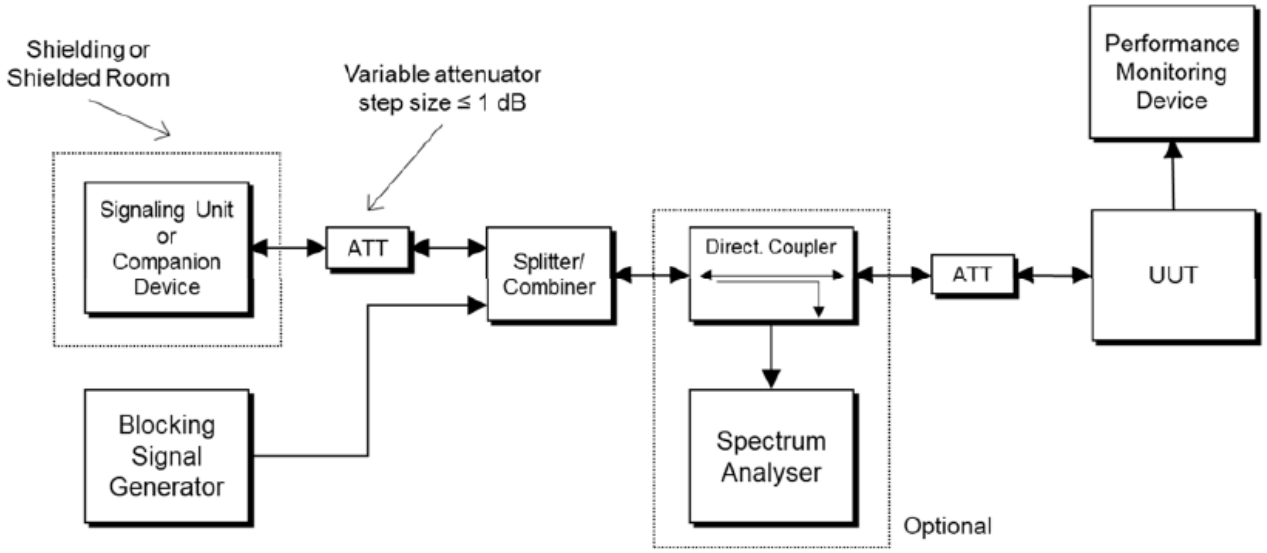



**Figure 21: Test setup for receiver blocking**

## Test Data

***Test Result:*** *Compliant. Please refer to following tables.*

Note: CMW500 was used to monitor the PER, and the worst case as below.

| Test Mode | Test Frequency (MHz) | Pmin (dBm) | Wanted signal Power from companion device (dBm) | Blocking Signal Frequency (MHz) | Blocking Signal Power (dBm) | Max Blocking Signal Power (dBm) | PER (%) | Limit (%) |
|---|---|---|---|---|---|---|---|---|
| 802.11 a | 5180 | -78 | -72 | 5100 | -59 | -53 | 3.2 | ≤ 10 |
| | | | | 4900 | -53 | -49 | 3.9 | |
| | | | | 5000 | -53 | -49 | 4.1 | |
| | | | | 5975 | -53 | -43 | 5.5 | |
| | 5260 | -76 | -70 | 5100 | -59 | -49 | 3.1 | ≤ 10 |
| | | | | 4900 | -53 | -44 | 4.4 | |
| | | | | 5000 | -53 | -42 | 5.1 | |
| | | | | 5975 | -53 | -46 | 4.2 | |
| | 5500 | -77 | -71 | 5100 | -59 | -52 | 2.6 | ≤ 10 |
| | | | | 4900 | -53 | -42 | 4.8 | |
| | | | | 5000 | -53 | -45 | 3.2 | |
| | | | | 5975 | -53 | -48 | 5.8 | |

# 10 – ADJACENT CHANNEL SELECTIVITY

## Applicable Standard

Adjacent channel selectivity is a measure of the capability of the equipment to receive a wanted signal on its usable channels without exceeding a given degradation due to the presence of an interfering signal in an adjacent channel.

## Limit

For equipment that supports a PER or FER test to be performed, the minimum performance criterion shall be a PER or FER less than or equal to 10 %.

For equipment that does not support a PER or a FER test to be performed, the minimum performance criterion shall be no loss of the wireless transmission function needed for the intended use of the equipment.

The limits defined in this clause apply when the equipment receives the wanted signal on a single channel and the occupied bandwidth of the interfering signal falls completely within a channel adjacent to this channel. Both channels have a nominal channel bandwidth as defined in clause 4.2.2.

While maintaining the minimum performance criteria as defined in clause 4.2.9.3, the adjacent channel interferer level shall be equal to or greater than the limit given in table 9 corresponding to a frequency offset within the range specified in table 9.

**Table 9: Adjacent channel selectivity parameters**

| Wanted signal mean power from companion device (dBm) | Interferer signal frequency offset range (MHz) | Interferer signal power (dBm) (see note 2) | Type of interferer signal |
|---|---|---|---|
| $P_{min}$ + 10 dB | 20 ± 0,2 | $P_{min}$ + 26 dB | Same as the wanted signal with an equivalent occupied bandwidth |
| NOTE 1: $P_{min}$ is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined clause 4.2.9.3 in the absence of any interfering signal.<br>NOTE 2: The level specified for the interferer signal applies at the lowest data rate. | | | |

## Test method

- ☐ Conducted with connector on UUT
- ☐ Radiated
- ☐ Test fixture relative
- ☒ Test fixture normalized
- ☐ Test fixture level independent

## Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) §5.4.11

## Test Data

***Test Result:*** *Compliant. Please refer to following tables.*

| Test Mode | Test Frequency (MHz) | Pmin (dBm) | Wanted signal Power from companion device (dBm) | Interferer Signal Frequency (MHz) | Interferer Signal Power (dBm) | PER (%) | Limit (%) |
|---|---|---|---|---|---|---|---|
| 802.11 a | 5180 | -78 | -68 | 5159.8 | -52 | 4.8 | ≤ 10 |
| | | | | 5160.2 | | 3.9 | |
| | | | | 5199.8 | | 5.5 | |
| | | | | 5200.2 | | 2.6 | |
| | 5260 | -76 | -66 | 5239.8 | -50 | 4.5 | ≤ 10 |
| | | | | 5240.2 | | 5.3 | |
| | | | | 5279.8 | | 3.2 | |
| | | | | 5280.2 | | 4.5 | |
| | 5500 | -77 | -67 | 5479.8 | -51 | 2.9 | ≤ 10 |
| | | | | 5480.2 | | 4.2 | |
| | | | | 5519.8 | | 3.3 | |
| | | | | 5520.2 | | 4.3 | |

# 12 – COUNTRY DETERMINATION CAPABILITY

## Applicable Standard

Country determination capability is a feature of an RLAN device which enables the device to be configured automatically according to the regulatory requirements applicable at the location where the device operates.

This includes implementations where the country determination capability is present in the RLAN device itself or in external equipment associated with the device.

Details of which CEPT countries permit use of WAS/RLAN in sub-band 4 or parts thereof are found in ECO Report 06 [i.15].

## Requirements

Before the RLAN device starts transmitting in sub-band 4 with an RF output power of greater than 25 mW EIRP, the RLAN device shall use the country determination capability to identify the country where it is located. The RLAN device shall not transmit in sub-band 4 with an RF output power of greater than 25 mW EIRP, if any of the following applies:

- The RLAN device is in a country where regulatory requirements prohibit transmitting in sub-band 4 with an RF output power of greater than 25 mW EIRP.

- The RLAN device cannot identify the country where the RLAN device is located.

## Test Procedure

According to ETSI EN 301 893 V2.2.1 (2024-11) §B.3.4.13

## Test Data

**Test Result: N/A**. It's only required for RLAN devices that are capable of applying an RF output power of greater than 25 mW EIRP in subband4 refer to report 2602P42652E-22E.

# EXHIBIT A – EUT PHOTOGRAPHS

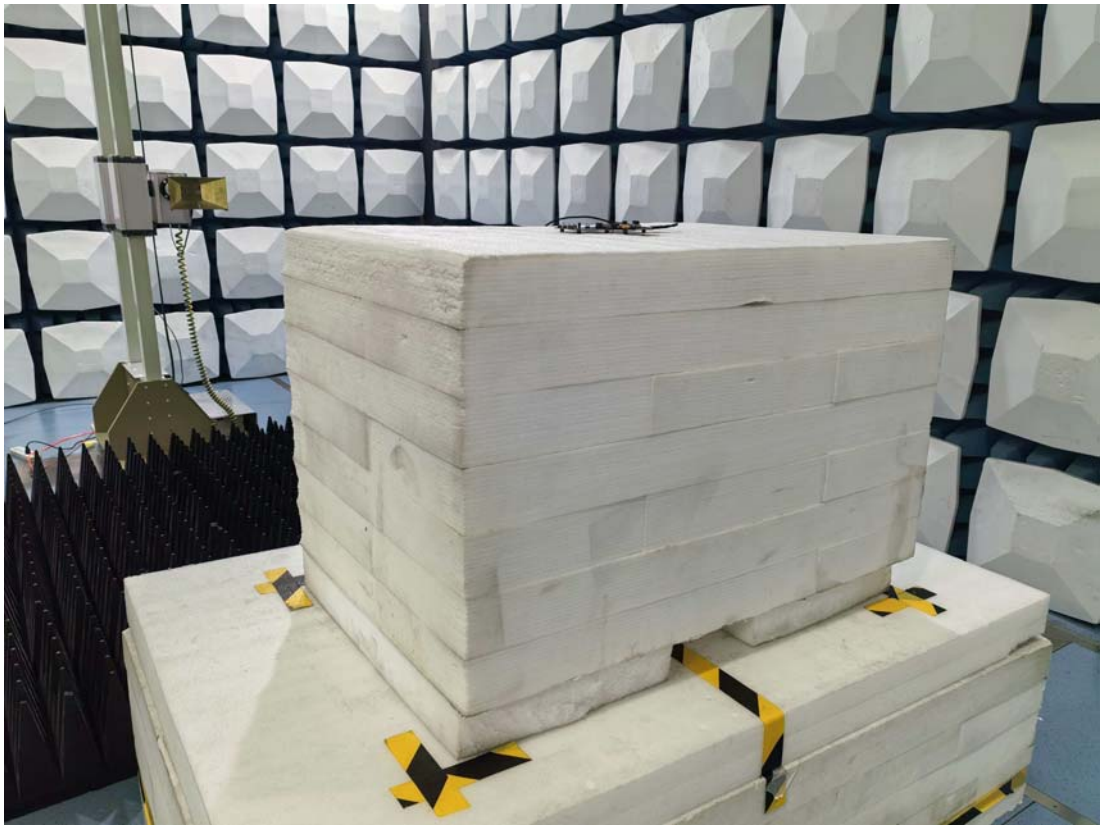
For photos in this section, please refer to report No.: 2602P42652E-22A EXHIBIT A.

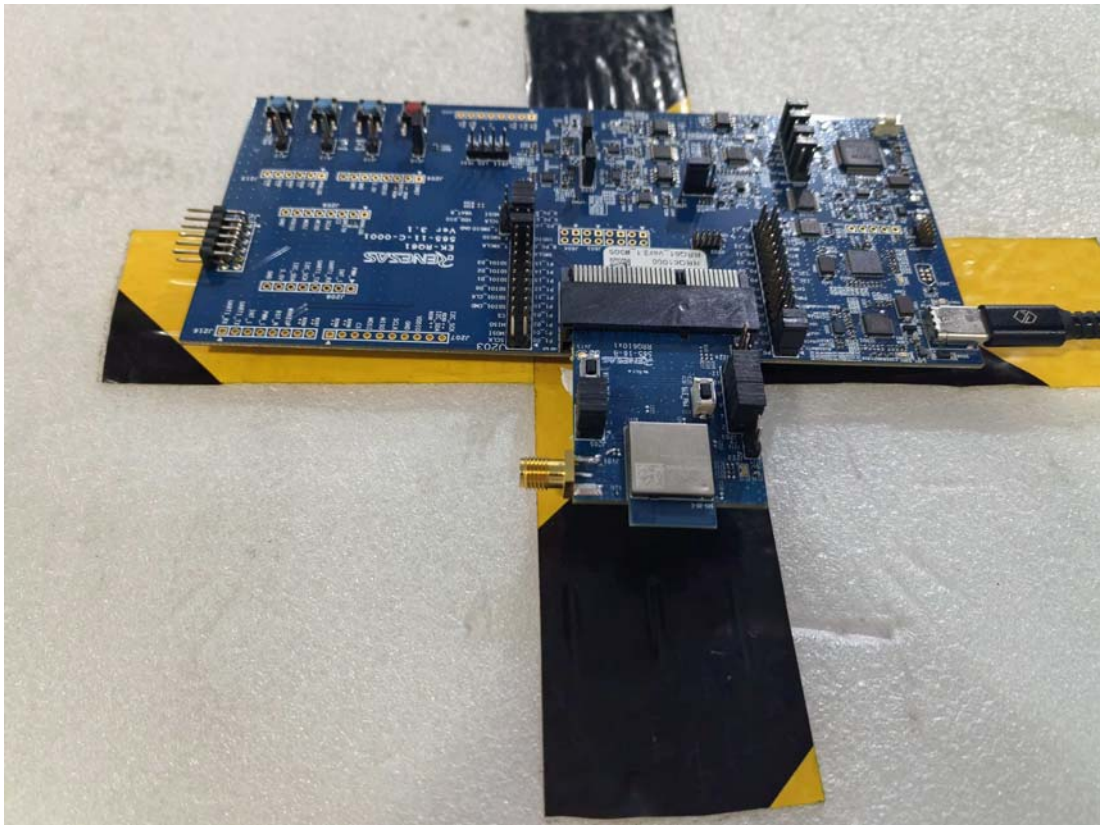
# EXHIBIT B – TEST SET UP PHOTOGRAPHS

Radiated Emission Below 1GHz View



Radiated Emission Above 1GHz View





*******END OF REPORT*******