

RF Test Report

Applicant: Quectel Wireless Solutions Co., Ltd.

Address:

Building 5, Shanghai Business Park Phase III (Area B), No.1016

Tianlin Road, Minhang District, Shanghai, China, 200233

Product: Smart Module

Model No.: SG560D-WF

Brand Name: QUECTEL

FCC ID: XMR2023SG560DWF

Standards: FCC CFR47 Part 15C

Report No.: PD20230213RF03

Issue Date: 2024/01/15

Test Result: PASS *

The above equipment has been tested and compliance with the requirement of the relative standards by Hefei Panwin Technology Co., Ltd.

Reviewed By: Charlie Wang

Charlie. Wang

Approved By: Alec Yang

Stee Jung

Hefei Panwin Technology Co., Ltd.

Floor 1, Zone E, Plant 2#, Mingzhu Industrial Park, No.106 Chuangxin Avenue, High-tech Zone, Hefei City, Anhui Province, China

TEL: +86-0551-63811775



Report No.: PD20230213RF03

Report Version: 01

Revision History

| Report No. | Version | Description | Issue Date | Note |
|----------------|---------|----------------|------------|-------|
| PD20230213RF03 | 1 | Initial Report | 2024/01/15 | Valid |

Remark:

The customer claimed that the clocking scheme of the module's WiFi unit had been updated, and the old clock scheme continues to provide the clock signal for the entire system except WiFi. After the update, the module is the same everywhere except for the difference in the clock scheme of WiFi. The new XO solution has no RF impact. Therefore, this report verifies the 6dB and 99% Bandwidth and Radiated Band Edges and Radiated Spurious Emission, and other data can be referred to in the original report (Report No.: SEWA2303000041RG03) released by SGS on 2023/05/24.



Report No.: PD20230213RF03

Report Version: 01

CONTENTS

| 1 General Information | 5 |
|---|----|
| 1.1 Notes of the Test Report 1.2 Test Facility 1.3 Testing Laboratory | 5 |
| 2 General Description of Equipment under Test | 6 |
| 2.1 Details of Application 2.2 General Information 2.3 Applicable Standard(s) | 6 |
| 3 Test Condition | 8 |
| 3.1 Test Configuration | 8 |
| 3.2 Carrier Frequency and Channel | |
| 3.3 Equipment List | |
| 3.4 Support Equipment List | |
| 3.5 Test Uncertainty | 10 |
| 4 Test Items Description | 11 |
| 4.1 6dB and 99% Bandwidth Measurement | 11 |
| 4.2 Radiated Band Edges and Spurious Emission Measurement | 13 |
| 4.3 Antenna Requirements | 17 |
| Appendix A – Test Results of Conducted Test | 18 |
| Appendix B – Test Results of Radiated Test | 30 |
| Appendix C – The EUT Appearance | 43 |
| Appendix D – Test Setup Photograph | 43 |



Report No.: PD20230213RF03

Report Version: 01

Test Summary

| No. | Test Case | FCC Rules | Verdict |
|-----|--|--------------------|---------|
| 1 | 6dB and 99% Bandwidth Measurement | 15.247(a)(2) | PASS |
| 2 | Radiated Band Edges and Spurious Emission Measurement | 15.247(d) | PASS |
| 3 | Antenna Requirements | 15.203 & 15.247(b) | PASS |

Date of Testing:2023/12/07 to 2024/01/11 Date of Sample Received: 2023/12/04

- We, Hefei Panwin Technology Co., Ltd., would like to declare that the tested sample has been evaluated in accordance with the procedures given in applied standard(s) in **Section 2.3** of this report and shown compliance with the applicable technical standards.
- All indications of PASS/FAIL in this report are based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.



Report No.: PD20230213RF03

Report Version: 01

1 General Information

1.1 Notes of the Test Report

This report is invalid without signature of auditor and approver or with any alterations. The report shall not be partially reproduced without written approval of the testing company. Entrusted test results are only responsible for incoming samples. If there is any objection to the testing report, it shall be raised to the testing company within 15 days from the date of receiving the report. In the test results, "NA" means "not applicable", and the test items marked with " Δ " are subcontracted projects.

1.2 Test Facility

FCC (Designation number: CN1361, Test Firm Registration Number: 473156)

Hefei Panwin Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 6849.01)

Hefei Panwin Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Laboratory

| Company Name | Hefei Panwin Technology Co., Ltd. | |
|--------------|--|--|
| Address | Floor 1, Zone E, Plant 2#, Mingzhu Industrial Park, No.106 Chuangxin Avenue, High-tech Zone, Hefei City, Anhui Province, China | |
| Telephone | +86-0551-63811775 | |
| Post Code | 230031 | |



Report No.: PD20230213RF03

Report Version: 01

2 General Description of Equipment under Test

2.1 Details of Application

| Applicant | Quectel Wireless Solutions Co., Ltd. | |
|----------------------|--|--|
| Applicant Address | Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin | |
| Applicant Address | Road, Minhang District, Shanghai, China, 200233 | |
| Manufacturer | Quectel Wireless Solutions Co., Ltd. | |
| Manufacturar Address | Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin | |
| Manufacturer Address | Road, Minhang District, Shanghai, China, 200233 | |

2.2 General Information

| Smart Module | |
|---|--|
| SG560D-WF | |
| 1. P1Y23141B000037 | |
| 2. P1Y23123V000012 | |
| R1.1 | |
| SG560DWFPARO2A04 | |
| External Antenna | |
| 0.47dBi | |
| NA | |
| Typical 4.0Vdc | |
| WLAN 802.11b/g/n/ax: DSSS,OFDM,OFDMA | |
| WLAN 802.11b/g/n HT20/ax HE20: 2412MHz to 2462MHz | |
| WLAN 802.11n HT40/ax HE40: 2422MHz to 2452MHz | |
| | |

Note: The declared of product specification for EUT and/or Antenna presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



Report No.: PD20230213RF03

Report Version: 01

2.3 Applicable Standard(s)

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2013

Report No.: PD20230213RF03

Report Version: 01

3 Test Condition

3.1 Test Configuration

Test mode

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

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes (Z, X, Y axis), receiver antenna polarization (horizontal and vertical), the worst emission was found in Z position and the worst case was recorded.

| Test Mode | Data Rate(Mbps) |
|--------------------|-----------------|
| 802.11b_CDD | 1 |
| 802.11g_CDD | 6 |
| 802.11n HT20_MIMO | MCS0 |
| 802.11ax HE20_MIMO | MCS0 |
| 802.11n HT40_MIMO | MCS0 |
| 802.11ax HE40_MIMO | MCS0 |

3.2 Carrier Frequency and Channel

| Frequency Band | Channel | Freq.(MHz) | Channel | Freq.(MHz |
|-----------------|---------|------------|---------|-----------|
| | 1 | 2412 | 7 | 2442 |
| | 2 | 2417 | 8 | 2447 |
| 2400-2483.5 MHz | 3 | 2422 | 9 | 2452 |
| 2400-2463.3 MHZ | 4 | 2427 | 10 | 2457 |
| | 5 | 2432 | 11 | 2462 |
| | 6 | 2437 | 1 | 1 |



Report No.: PD20230213RF03

Report Version: 01

3.3 Equipment List

| Instrument | Manufacturer | Model | Asset No. | Cal. Interval | Cal. Due Date |
|--------------------------------|----------------------|------------------|-----------|---------------|------------------|
| EMI Test Receiver | R&S | ESR7 | PWB0023 | 1 Year | 2024/10/11 |
| Spectrum Analyzer | R&S | FSV3044 | PWB0024 | 1 Year | 2024/10/11 |
| Loop Antenna | R&S | HFH2-Z2E | PWB0026 | 1 Year | 2024/10/21 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB9162 | PWB0029 | 1 Year | 2024/10/14 |
| Double-Ridged Guide Antenna | ETS-Lindgren | 3117 | PWB0031 | 1 Year | 2024/10/12 |
| k Type Horn Antenna | Steatite Antennas | QMS-00880 | PWB0035 | 1 Year | 2024/10/17 |
| Spectrum Analyzer | KEYSIGHT | N9020B | PWC0055 | 1 Year | 2024/10/11 |
| DC Power | KEYSIGHT | E3640A | PWC0046 | 1 Year | 2024/10/11 |
| Anechoic Chamber | ETS.LINDGREN | Fact 3-2m | PWB0003 | 3 Years | 2024/08/28 |
| Shielded Chamber | Maorui | MR543 | PWC0041 | 3 Years | 2026/08/26 |
| Pre-Amplifier | R&S | SCU18F | PWB0034 | 1 Year | 2024/10/11 |
| Pre-Amplifier | R&S | SCU40F1 | PWB0036 | 1 Year | 2024/10/11 |
| Pre-Amplifier | COM-MW | DLNA8 | PWB0094 | 1 Year | 2024/11/08 |
| Test Software | Tonseced | JS1120-3 V3.2.22 | 1 | / | 1 |
| Test Software | R&S | ELEKTRA V4.20.2 | 1 | 1 | 1 |

3.4 Support Equipment List

| Equipment | Manufacturer | Description | Model | Serial Number |
|-----------|--|----------------|-------------|---------------|
| EVB | QUECTEL | 1 | 1 | 1 |
| USB Cable | / | 1 | 1 | 1 |
| Adapter | Xiamen Xinsenhai Electronics Co., Ltd | Output:12V 60W | P60EB120500 | 1 |



Report No.: PD20230213RF03

Report Version: 01

3.5 Test Uncertainty

| No. | Parameter | Uncertainty |
|-----|--|---------------------|
| 1 | DTS Bandwidth | 1.9 % |
| 2 | Occupied channel bandwidth | 1.9 % |
| 3 | Unwanted Emissions In Non-restricted Frequency Pands | 9kHz-7GHz: 1.21 dB |
| 3 | Unwanted Emissions In Non-restricted Frequency Bands | 7GHz-40GHz: 3.31 dB |
| 4 | Radiated Spurious Emission | 4.46 dB |
| 5 | Temperature | 3 °C |
| 6 | Humidity | 1.3 % |
| 7 | Supply Voltages | 0.006 V |



Report No.: PD20230213RF03

Report Version: 01

4 Test Items Description

Ambient condition

Shielded Chamber

| Temperature [°C] | 20.4 to 25.6 |
|------------------|----------------|
| Humidity [%RH] | 29 to 40 |
| Pressure [kPa] | 100.8 to 102.7 |
| | |

Anechoic Chamber

| Temperature [°C] | 20.1 to 27.1 |
|------------------|----------------|
| Humidity [%RH] | 30 to 49 |
| Pressure [kPa] | 100.8 to 104.1 |

4.1 6dB and 99% Bandwidth Measurement

4.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz

4.1.2 Measuring Instruments

The section 3.3 of List of Measuring Equipment of this test report is used for test.

4.1.3 Test Procedures

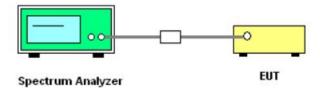
- 1. The testing follows ANSI C63.10-2013 clause 11.8.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the 99% OBW and the VBW is set to 3 times of the RBW.
- 6. Measure and record the results in the test report.



Report No.: PD20230213RF03

Report Version: 01

4.1.4 Test Setup



4.1.5 Test Results

See Appendix A.1.



Report No.: PD20230213RF03

Report Version: 01

4.2 Radiated Band Edges and Spurious Emission Measurement

4.2.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

4.2.2 Measuring Instruments

The section 3.3 of List of Measuring Equipment of this test report is used for test.



Report No.: PD20230213RF03

Report Version: 01

4.2.3 Test Procedures

- 1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
- 3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level -Pre-amp Factor = Level
- For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- 7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured.
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
 - (3) Set RBW = 1 MHz, VBW= 3MHz for ≥ 1 GHz for peak measurement For average measurement:

VBW= 10 Hz, when duty cycle is no less than 98 percent.

VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

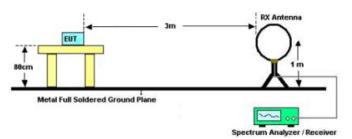


Report No.: PD20230213RF03

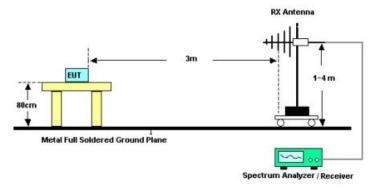
Report Version: 01

4.2.4 Test Setup

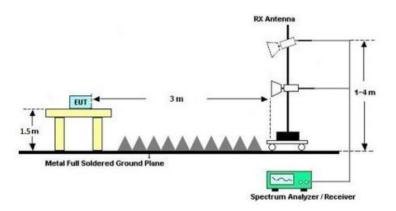
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



4.2.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.



Report No.: PD20230213RF03

Report Version: 01

4.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.1.

4.2.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHzwhichever is lower)

Please refer to Appendix B.1.



Report No.: PD20230213RF03

Report Version: 01

4.3 Antenna Requirements

4.3.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

4.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

4.3.3 Antenna Gain

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



Report No.: PD20230213RF03

Report Version: 01

Appendix A – Test Results of Conducted Test

A.1 6dB and 99% Bandwidth

Test Result 6dB Bandwidth

| Test Mode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|----------------|-----------------|----------|----------|------------|---------|
| 11B-CDD | Ant1 | 2412 | 8.400 | 2407.960 | 2416.360 | 0.5 | PASS |
| 11B-CDD | Ant2 | 2412 | 8.400 | 2407.960 | 2416.360 | 0.5 | PASS |
| 11B-CDD | Ant1 | 2437 | 8.080 | 2432.960 | 2441.040 | 0.5 | PASS |
| 11B-CDD | Ant2 | 2437 | 8.080 | 2432.960 | 2441.040 | 0.5 | PASS |
| 11B-CDD | Ant1 | 2462 | 8.400 | 2457.600 | 2466.000 | 0.5 | PASS |
| 11B-CDD | Ant2 | 2462 | 8.400 | 2457.640 | 2466.040 | 0.5 | PASS |
| 11G-CDD | Ant1 | 2412 | 16.480 | 2403.760 | 2420.240 | 0.5 | PASS |
| 11G-CDD | Ant2 | 2412 | 16.480 | 2403.760 | 2420.240 | 0.5 | PASS |
| 11G-CDD | Ant1 | 2437 | 16.520 | 2428.720 | 2445.240 | 0.5 | PASS |
| 11G-CDD | Ant2 | 2437 | 16.480 | 2428.760 | 2445.240 | 0.5 | PASS |
| 11G-CDD | Ant1 | 2462 | 16.480 | 2453.720 | 2470.200 | 0.5 | PASS |
| 11G-CDD | Ant2 | 2462 | 16.520 | 2453.720 | 2470.240 | 0.5 | PASS |
| 11N20MIMO | Ant1 | 2412 | 17.760 | 2403.120 | 2420.880 | 0.5 | PASS |
| 11N20MIMO | Ant2 | 2412 | 17.760 | 2403.120 | 2420.880 | 0.5 | PASS |
| 11N20MIMO | Ant1 | 2437 | 17.760 | 2428.120 | 2445.880 | 0.5 | PASS |
| 11N20MIMO | Ant2 | 2437 | 17.720 | 2428.120 | 2445.840 | 0.5 | PASS |
| 11N20MIMO | Ant1 | 2462 | 17.680 | 2453.120 | 2470.800 | 0.5 | PASS |
| 11N20MIMO | Ant2 | 2462 | 17.720 | 2453.120 | 2470.840 | 0.5 | PASS |
| 11N40MIMO | Ant1 | 2422 | 36.080 | 2403.840 | 2439.920 | 0.5 | PASS |
| 11N40MIMO | Ant2 | 2422 | 36.080 | 2404.080 | 2440.160 | 0.5 | PASS |
| 11N40MIMO | Ant1 | 2437 | 35.920 | 2418.840 | 2454.760 | 0.5 | PASS |
| 11N40MIMO | Ant2 | 2437 | 36.080 | 2419.080 | 2455.160 | 0.5 | PASS |
| 11N40MIMO | Ant1 | 2452 | 35.680 | 2433.840 | 2469.520 | 0.5 | PASS |
| 11N40MIMO | Ant2 | 2452 | 35.920 | 2433.840 | 2469.760 | 0.5 | PASS |
| 11AX20MIMO | Ant1 | 2412 | 18.880 | 2402.600 | 2421.480 | 0.5 | PASS |
| 11AX20MIMO | Ant2 | 2412 | 18.880 | 2402.560 | 2421.440 | 0.5 | PASS |
| 11AX20MIMO | Ant1 | 2437 | 18.920 | 2427.520 | 2446.440 | 0.5 | PASS |
| 11AX20MIMO | Ant2 | 2437 | 18.880 | 2427.520 | 2446.400 | 0.5 | PASS |
| 11AX20MIMO | Ant1 | 2462 | 18.720 | 2452.480 | 2471.200 | 0.5 | PASS |
| 11AX20MIMO | Ant2 | 2462 | 18.680 | 2452.600 | 2471.280 | 0.5 | PASS |
| 11AX40MIMO | Ant1 | 2422 | 37.440 | 2403.040 | 2440.480 | 0.5 | PASS |
| 11AX40MIMO | Ant2 | 2422 | 37.760 | 2403.200 | 2440.960 | 0.5 | PASS |



Report No.: PD20230213RF03

Report Version: 01

| 11AX40MIMO | Ant1 | 2437 | 37.520 | 2418.120 | 2455.640 | 0.5 | PASS |
|------------|------|------|--------|----------|----------|-----|------|
| 11AX40MIMO | Ant2 | 2437 | 37.440 | 2418.280 | 2455.720 | 0.5 | PASS |
| 11AX40MIMO | Ant1 | 2452 | 37.360 | 2433.040 | 2470.400 | 0.5 | PASS |
| 11AX40MIMO | Ant2 | 2452 | 37.840 | 2433.040 | 2470.880 | 0.5 | PASS |

Test Result 99% Bandwidth

| Test Mode | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|---------------------------|-----------|-----------|-----------|------------|---------|
| 11B-CDD | Ant1 | 2412 | 13.004 | 2405.4928 | 2418.4968 | | |
| 11B-CDD | Ant2 | 2412 | 13.169 | 2405.4323 | 2418.6013 | | |
| 11B-CDD | Ant1 | 2437 | 13.013 | 2430.4264 | 2443.4394 | | |
| 11B-CDD | Ant2 | 2437 | 12.953 | 2430.4639 | 2443.4169 | | |
| 11B-CDD | Ant1 | 2462 | 13.102 | 2455.3183 | 2468.4203 | | |
| 11B-CDD | Ant2 | 2462 | 13.156 | 2455.3739 | 2468.5299 | | |
| 11G-CDD | Ant1 | 2412 | 16.939 | 2403.5515 | 2420.4905 | | |
| 11G-CDD | Ant2 | 2412 | 16.938 | 2403.5570 | 2420.4950 | | |
| 11G-CDD | Ant1 | 2437 | 17.005 | 2428.4838 | 2445.4888 | | |
| 11G-CDD | Ant2 | 2437 | 16.975 | 2428.5113 | 2445.4863 | | |
| 11G-CDD | Ant1 | 2462 | 16.971 | 2453.4310 | 2470.4020 | | |
| 11G-CDD | Ant2 | 2462 | 16.960 | 2453.4772 | 2470.4372 | | |
| 11N20MIMO | Ant1 | 2412 | 18.097 | 2402.9776 | 2421.0746 | | |
| 11N20MIMO | Ant2 | 2412 | 18.151 | 2402.9657 | 2421.1167 | | |
| 11N20MIMO | Ant1 | 2437 | 18.185 | 2427.8903 | 2446.0753 | | |
| 11N20MIMO | Ant2 | 2437 | 18.131 | 2427.9529 | 2446.0839 | | |
| 11N20MIMO | Ant1 | 2462 | 18.115 | 2452.8631 | 2470.9781 | | |
| 11N20MIMO | Ant2 | 2462 | 18.124 | 2452.9058 | 2471.0298 | | |
| 11N40MIMO | Ant1 | 2422 | 36.053 | 2403.9518 | 2440.0048 | | |
| 11N40MIMO | Ant2 | 2422 | 36.162 | 2403.9884 | 2440.1504 | | |
| 11N40MIMO | Ant1 | 2437 | 36.181 | 2418.8647 | 2455.0457 | | |
| 11N40MIMO | Ant2 | 2437 | 36.177 | 2418.9226 | 2455.0996 | | |
| 11N40MIMO | Ant1 | 2452 | 36.077 | 2433.8616 | 2469.9386 | | |
| 11N40MIMO | Ant2 | 2452 | 36.152 | 2433.8977 | 2470.0497 | | |
| 11AX20MIMO | Ant1 | 2412 | 18.947 | 2402.5383 | 2421.4853 | | |
| 11AX20MIMO | Ant2 | 2412 | 18.993 | 2402.5215 | 2421.5145 | | |
| 11AX20MIMO | Ant1 | 2437 | 18.996 | 2427.4796 | 2446.4756 | | |
| 11AX20MIMO | Ant2 | 2437 | 18.990 | 2427.4905 | 2446.4805 | | |
| 11AX20MIMO | Ant1 | 2462 | 18.973 | 2452.4673 | 2471.4403 | | |
| 11AX20MIMO | Ant2 | 2462 | 18.959 | 2452.4912 | 2471.4502 | | |
| 11AX40MIMO | Ant1 | 2422 | 37.806 | 2403.0975 | 2440.9035 | | |

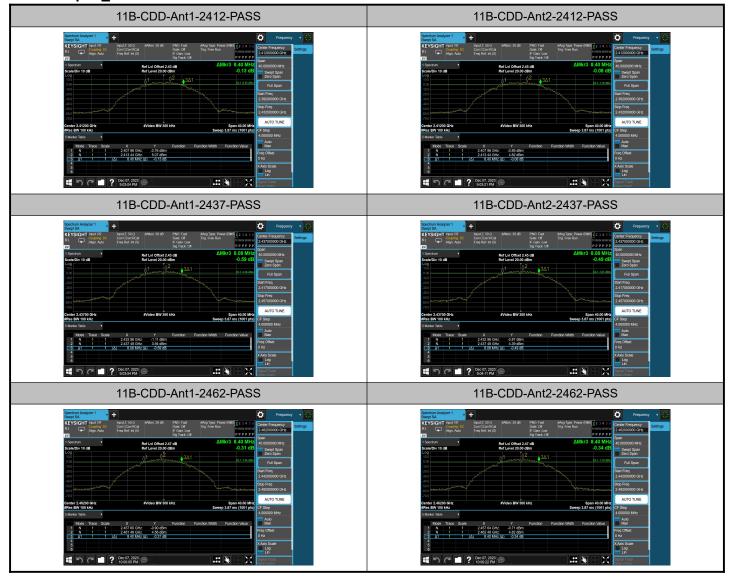


Report No.: PD20230213RF03

Report Version: 01

| 11AX40MIMO | Ant2 | 2422 | 37.761 | 2403.1526 | 2440.9136 | |
|------------|------|------|--------|-----------|-----------|------|
| 11AX40MIMO | Ant1 | 2437 | 37.882 | 2418.0166 | 2455.8986 | |
| 11AX40MIMO | Ant2 | 2437 | 37.820 | 2418.0899 | 2455.9099 | |
| 11AX40MIMO | Ant1 | 2452 | 37.745 | 2433.0467 | 2470.7917 | |
| 11AX40MIMO | Ant2 | 2452 | 37.822 | 2433.0520 | 2470.8740 | |

Test Graphs_6dB Bandwidth





Report No.: PD20230213RF03

Report Version: 01





Report No.: PD20230213RF03

Report Version: 01





Report No.: PD20230213RF03

Report Version: 01

