# 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:** | Wi-Fi & Bluetooth Module |
| **Model No.:** | AF68E |
| **Brand Name:** | QUECTEL |
| **FCC ID:** | XMR202401AF68E |
| **Standards:** | FCC CFR47 Part 15E |
| **Report No.:** | PD20240028RF10 |
| **Issue Date:** | 2024/07/23 |
| **Test Result:** | PASS * |

* **Testing performed at Hefei Panwin Technology Co., Ltd. on the above equipment indicates the product meets the requirements of the relevant standards.**

**Reviewed By:** Jerry Zhang **Approved By:** Alec Yang


## Hefei Panwin Technology Co., Ltd.

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# Revision History

| Report No. | Version | Description | Issue Date | Note |
|---|---|---|---|---|
| PD20240028RF10 | 1 | Initial Report | 2024/07/23 | Valid |

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# Summary of Test Results

| No. | Test Case | FCC Rules | Verdict |
|---|---|---|---|
| 1 | 99% Occupied Bandwidth Measurement | 2.1049 | For Report Purpose |
| 2 | Contention Based Protocol | 15.407(d)6 | PASS |
| 3 | Antenna Requirements | 15.203 & 15.407(a) | PASS |

Date of Testing:2024/07/20 to 2024/07/22
Date of Sample Received: 2024/07/20

- The samples tested have been evaluated in accordance with the procedures given in the application standards in **Section 2.3** of this report and have been shown to comply 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.

# 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

**A2LA (Certificate Number: 6849.01)**

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

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

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

## 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 |

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

## 2.2 General Information

| | |
|---|---|
| **Product** | Wi-Fi & Bluetooth Module |
| **Module** | AF68E |
| **SN** | D1C24BK19000018 |
| **Hardware Version** | R1.0 |
| **Software Version** | / |
| **Antenna Type** | External Antenna |
| **FCC Classification:** | 6GHz Dual Client (6CD) |
| **WLAN Mode Supported:** | 802.11a<br>802.11ax 20M/40M/80M/160M |
| **Antenna Gain** | 3.70dBi(Ant1), 2.90dBi(Ant2) |
| **Test Band** | U-NII-5: 5925 MHz~ 6425 MHz<br>U-NII-6: 6425 MHz~ 6525 MHz<br>U-NII-7: 6525 MHz~ 6875 MHz<br>U-NII-8: 6875 MHz~ 7125 MHz |
| **Operating voltage range** | DC 3.3-4.8V, Typ: 3.85V |
| **Modulation Type** | OFDM,OFDMA |
| **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. | |

## 2.3 Application Standards

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

- 47 CFR Part 15 Subpart E
- ANSI C63.10-2013
- KDB 987594 D02 U-NII 6GHz EMC Measurement v01
- FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

# 3 Test Condition

## 3.1 Wireless Technology and Frequency Range

| Wireless Technology | Bandwidth | | Channel | Frequency |
|---|---|---|---|---|
| Wi-Fi | U-NII-5 | 20MHz | 1 | 5955 MHz |
| | | | 45 | 6175 MHz |
| | | | 93 | 6415 MHz |
| | | 40MHz | 3 | 5965 MHz |
| | | | 43 | 6165 MHz |
| | | | 91 | 6405 MHz |
| | | 80MHz | 7 | 5985 MHz |
| | | | 39 | 6145 MHz |
| | | 160MHz | 15 | 6025 MHz |
| | | | 47 | 6185 MHz |
| | | | 79 | 6345 MHz |
| | U-NII-6 | 20MHz | 97 | 6435 MHz |
| | | | 105 | 6475 MHz |
| | | | 113 | 6515 MHz |
| | | 40MHz | 99 | 6445 MHz |
| | | | 107 | 6485 MHz |
| | | | 115 | 6525 MHz |
| | | 80MHz | 87 | 6385 MHz |
| | | | 103 | 6465 MHz |
| | | 160MHz | 111 | 6505 MHz |
| | U-NII-7 | 20MHz | 117 | 6535 MHz |
| | | | 149 | 6695 MHz |
| | | | 181 | 6855 MHz |
| | | 40MHz | 123 | 6565 MHz |
| | | | 147 | 6685 MHz |
| | | | 179 | 6845 MHz |
| | | 80MHz | 119 | 6545 MHz |
| | | | 135 | 6625 MHz |
| | | | 151 | 6705 MHz |
| | | | 167 | 6785 MHz |
| | | | 183 | 6865 MHz |
| | | 160MHz | 143 | 6665 MHz |
| | | | 175 | 6825 MHz |
| | U-NII-8 | 20MHz | 189 | 6895 MHz |

| | | | | |
|---|---|---|---|---|
| | | | 233 | 7115 MHz |
| | | 40MHz | 187 | 6885 MHz |
| | | | 195 | 6925 MHz |
| | | | 203 | 6965 MHz |
| | | | 227 | 7085 MHz |
| | | 80MHz | 199 | 6945 MHz |
| | | | 215 | 7025 MHz |
| | | 160MHz | 207 | 6985 MHz |

## 3.2 Equipment List

**Conducted**

| Instrument | Manufacturer | Model | Asset No. | Cal. Interval | Cal. Due Date |
|---|---|---|---|---|---|
| Spectrum Analyzer | R&S | FSV3044 | PWC0009 | 1 Year | 2024/10/11 |
| Vector Signal Generator | R&S | SMM100A | PWC0040 | 1 Year | 2024/08/27 |
| Power Meter Unit | Tonscend | JS0806-2-8CH | PWC0013 | 1 Year | 2024/10/13 |
| Shielded Chamber | MIX-BEP | SR 433 | PWC0001 | 3 Years | 2024/08/08 |
| Test Software | Tonscend | JS1120-3 V3.2.22 | / | / | / |

## 3.3 Support Equipment List

| Equipment | Manufacturer | Description | Model | Serial Number |
|---|---|---|---|---|
| EVB | QUECTEL | / | / | / |
| Adapter | Dong Guan City GangQi Electronic Co., Ltd | Output:12V 3A | GQ36-120300-AX | / |
| Router | ASUS | 2.4G/5G/6G | RT-AXE7800 | / |

## 3.4 Test Uncertainty

| No. | Parameter | Uncertainty |
|---|---|---|
| 1 | Occupied channel bandwidth | 1.9% |
| 2 | Temperature | 3 °C |
| 3 | Humidity | 1.3 % |
| 4 | Supply voltages | 0.006 V |

# 4 Test Items Description

**Ambient condition**

Shielded Chamber

| | |
|---|---|
| Temperature [°C] | 21.5 to 24.3 |
| Humidity [%RH] | 42 to 68 |
| Pressure [kPa] | 99.8 to 100.2 |

## 4.1 99% Occupied Bandwidth Measurement

### 4.1.1 Limit of 99% Occupied Bandwidth

99% Occupied bandwidth are reporting only.

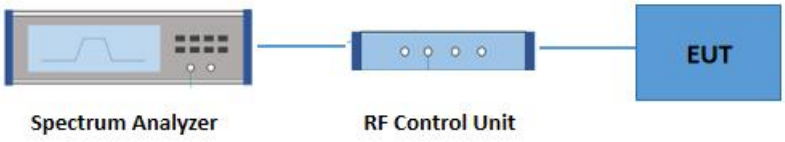
### 4.1.2 Measuring Instruments

The measuring equipment is listed in the section 3.3 of this test report.

### 4.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01Section C) Emission bandwidth.
2. For 99% OBW, Set RBW = 1% to 5% of the OBW.
3. For 99% OBW. Set the VBW ≥ 3 × RBW
4. Detector = Peak.
5. Trace mode = max hold
6. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set1% to 5% of the OBW and set the Video bandwidth (VBW) ≥ 3* RBW.
7. Measure and record the results in the test report.

### 4.1.4 Test Setup




### 4.1.5 Test Results

See Appendix A.1.

## 4.2 Contention Based Protocol

### 4.2.1 Limit of Contention Based Protocol

All U-NII transmitters, except for standard power access points, operating in the 5.925-7.125 GHz band must employ a contention-based protocol.Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

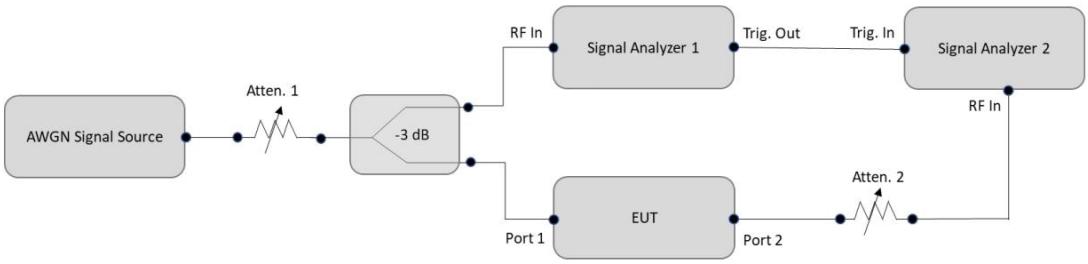
### 4.2.2 Measuring Instruments

The measuring equipment is listed in the section 3.3 of this test report.

### 4.2.3 Test Procedures

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

### 4.2.4 Test Setup




### 4.2.5 Test Result of Contention Based Protocol

Please refer to Appendix A.2.

## 4.3 Antenna Requirements

### 4.3.1 Standard Applicable

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

### 4.3.2 Antenna Anti-Replacement Construction

The antenna is External Antenna on the main PCB and no consideration of replacement.

### 4.3.3 Antenna Gain

The best case gain of the antenna is 3.70dBi(Ant1).

# Appendix A – Test Results

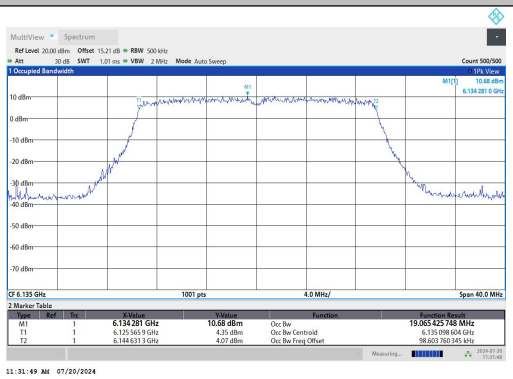
## A.1 99% Occupied Bandwidth

### Test Result

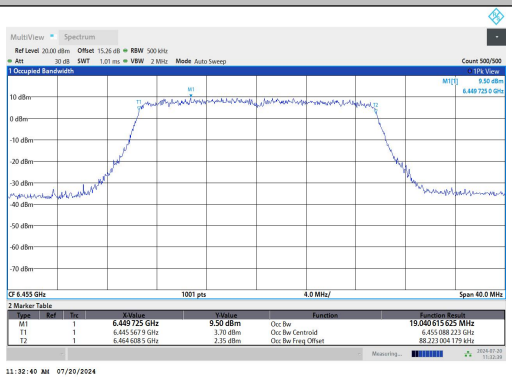
| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11AX20SISO | Ant1 | 6135 | 19.065 | 6125.5659 | 6144.6313 | --- | PASS |
| 11AX20SISO | Ant1 | 6455 | 19.041 | 6445.5679 | 6464.6085 | --- | PASS |
| 11AX20SISO | Ant1 | 6695 | 19.04 | 6685.5909 | 6704.6307 | --- | PASS |
| 11AX20SISO | Ant1 | 7015 | 19.068 | 7005.5755 | 7024.6431 | --- | PASS |
| 11AX160SISO | Ant1 | 6185 | 156.955 | 6106.5754 | 6263.5307 | --- | PASS |
| 11AX160SISO | Ant1 | 6505 | 157.095 | 6426.4074 | 6583.5024 | --- | PASS |
| 11AX160SISO | Ant1 | 6825 | 156.865 | 6746.8896 | 6903.7547 | --- | PASS |
| 11AX160SISO | Ant1 | 6985 | 156.875 | 6906.8645 | 7063.7397 | --- | PASS |

### Test Graphs

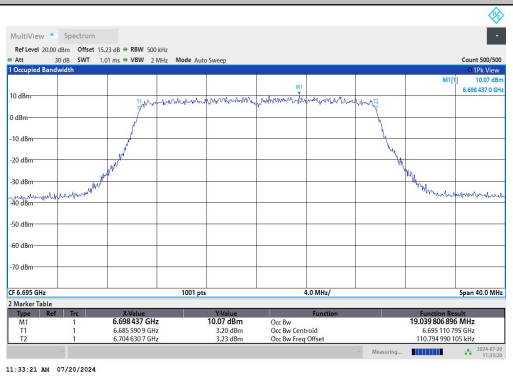
11AX20SISO-Ant1-6135-PASS



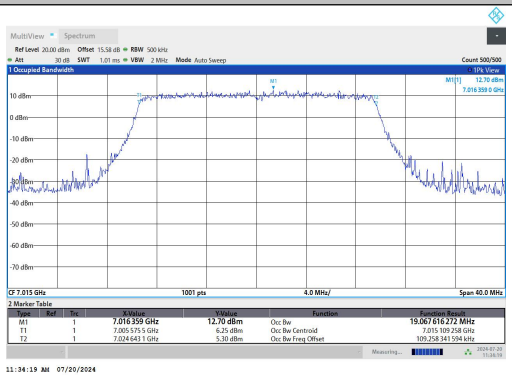
11AX20SISO-Ant1-6455-PASS



11AX20SISO-Ant1-6695-PASS

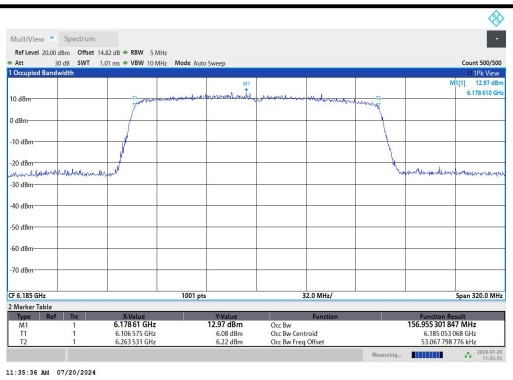


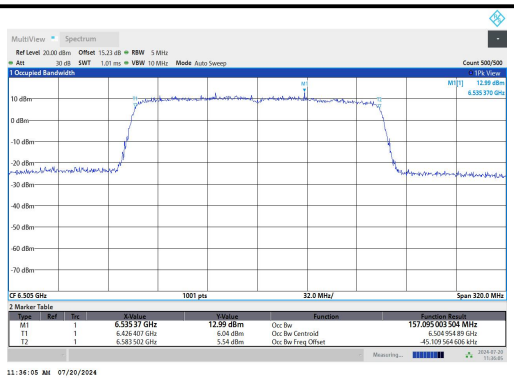
11AX20SISO-Ant1-7015-PASS



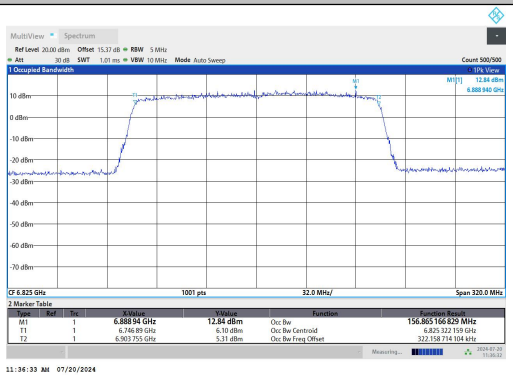
11AX160SISO-Ant1-6185-PASS

11AX160SISO-Ant1-6505-PASS

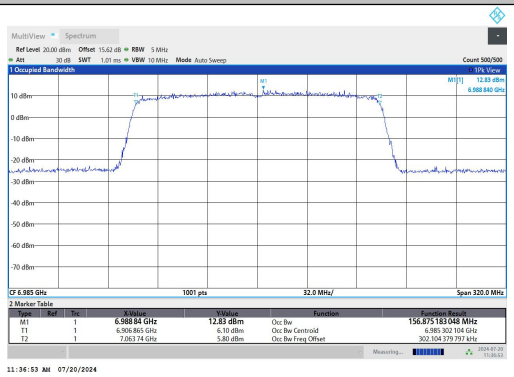



11AX160SISO-Ant1-6825-PASS




11AX160SISO-Ant1-6985-PASS



## A.2 Contention Based Protocol

### Test Result

| Test Mode | Antenna | Channel | Interference Frequency [MHz] | Status | AWGN Power [dBm] | Gain [dB] | Adjusted Power [dBm] | Limit [dBm] | Detection Rate | | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Result[%] | Limit [%] | |
| 11AX20SISO | Ant1 | 6135 | 6135 | OFF | -71.38 | 3.70 | -75.08 | -62 | 100 | 90 | PASS |
| 11AX20SISO | Ant1 | 6135 | 6135 | Minimal | -72.22 | 3.70 | -75.92 | -62 | 0 | --- | --- |
| 11AX20SISO | Ant1 | 6135 | 6135 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |
| 11AX20SISO | Ant1 | 6455 | 6455 | OFF | -69.49 | 3.70 | -73.19 | -62 | 90 | 90 | PASS |
| 11AX20SISO | Ant1 | 6455 | 6455 | Minimal | -70.36 | 3.70 | -74.06 | -62 | 10 | --- | --- |
| 11AX20SISO | Ant1 | 6455 | 6455 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |
| 11AX20SISO | Ant1 | 6695 | 6695 | OFF | -77.68 | 3.70 | -81.38 | -62 | 90 | 90 | PASS |
| 11AX20SISO | Ant1 | 6695 | 6695 | Minimal | -77.92 | 3.70 | -81.62 | -62 | 0 | --- | --- |
| 11AX20SISO | Ant1 | 6695 | 6695 | ON | -84 | 3.70 | -87.70 | -62 | --- | --- | --- |
| 11AX20SISO | Ant1 | 7015 | 7015 | OFF | -76.9 | 3.70 | -80.60 | -62 | 100 | 90 | PASS |
| 11AX20SISO | Ant1 | 7015 | 7015 | Minimal | -77.07 | 3.70 | -80.77 | -62 | 40 | --- | --- |
| 11AX20SISO | Ant1 | 7015 | 7015 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |
| 11AX160SISO | Ant1 | 6185 | 6111.5754 | OFF | -70.56 | 3.70 | -74.26 | -62 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6185 | 6185 | OFF | -69.65 | 3.70 | -73.35 | -62 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6185 | 6258.5307 | OFF | -69.58 | 3.70 | -73.28 | -62 | 90 | 90 | PASS |
| 11AX160SISO | Ant1 | 6185 | 6111.5754 | Minimal | -71.42 | 3.70 | -75.12 | -62 | 0 | --- | --- |
| 11AX160SISO | Ant1 | 6185 | 6185 | Minimal | -72.22 | 3.70 | -75.92 | -62 | 80 | --- | --- |
| 11AX160SISO | Ant1 | 6185 | 6258.5307 | Minimal | -70.44 | 3.70 | -74.14 | -62 | 20 | --- | --- |
| 11AX160SISO | Ant1 | 6185 | 6111.5754 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |
| 11AX160SISO | Ant1 | 6185 | 6185 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |
| 11AX160SISO | Ant1 | 6185 | 6258.5307 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |
| 11AX160SISO | Ant1 | 6505 | 6431.4074 | OFF | -69.51 | 3.70 | -73.21 | -62 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6505 | 6505 | OFF | -72.14 | 3.70 | -75.84 | -62 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6505 | 6578.5024 | OFF | -67.76 | 3.70 | -71.46 | -62 | 90 | 90 | PASS |
| 11AX160SISO | Ant1 | 6505 | 6431.4074 | Minimal | -70.39 | 3.70 | -74.09 | -62 | 0 | --- | --- |
| 11AX160SISO | Ant1 | 6505 | 6505 | Minimal | -72.94 | 3.70 | -76.64 | -62 | 0 | --- | --- |
| 11AX160SISO | Ant1 | 6505 | 6578.5024 | Minimal | -68.7 | 3.70 | -72.40 | -62 | 20 | --- | --- |
| 11AX160SISO | Ant1 | 6505 | 6431.4074 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |
| 11AX160SISO | Ant1 | 6505 | 6505 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |
| 11AX160SISO | Ant1 | 6505 | 6578.5024 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |
| 11AX160SISO | Ant1 | 6825 | 6751.8896 | OFF | -68.64 | 3.70 | -72.34 | -62 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6825 | 6825 | OFF | -70.36 | 3.70 | -74.06 | -62 | 100 | 90 | PASS |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11AX160SISO | Ant1 | 6825 | 6898.7547 | OFF | -69.27 | 3.70 | -72.97 | -62 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6825 | 6751.8896 | Minimal | -69.54 | 3.70 | -73.24 | -62 | 30 | --- | --- |
| 11AX160SISO | Ant1 | 6825 | 6825 | Minimal | -71.22 | 3.70 | -74.92 | -62 | 0 | --- | --- |
| 11AX160SISO | Ant1 | 6825 | 6898.7547 | Minimal | -70.08 | 3.70 | -73.78 | -62 | 30 | --- | --- |
| 11AX160SISO | Ant1 | 6825 | 6751.8896 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |
| 11AX160SISO | Ant1 | 6825 | 6825 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |
| 11AX160SISO | Ant1 | 6825 | 6898.7547 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |
| 11AX160SISO | Ant1 | 6985 | 6911.8645 | OFF | -69.22 | 3.70 | -72.92 | -62 | 90 | 90 | PASS |
| 11AX160SISO | Ant1 | 6985 | 6985 | OFF | -70.89 | 3.70 | -74.59 | -62 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6985 | 7058.7397 | OFF | -70.3 | 3.70 | -74.00 | -62 | 90 | 90 | PASS |
| 11AX160SISO | Ant1 | 6985 | 6911.8645 | Minimal | -70.04 | 3.70 | -73.74 | -62 | 0 | --- | --- |
| 11AX160SISO | Ant1 | 6985 | 6985 | Minimal | -71.66 | 3.70 | -75.36 | -62 | 0 | --- | --- |
| 11AX160SISO | Ant1 | 6985 | 7058.7397 | Minimal | -71.16 | 3.70 | -74.86 | -62 | 20 | --- | --- |
| 11AX160SISO | Ant1 | 6985 | 6911.8645 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |
| 11AX160SISO | Ant1 | 6985 | 6985 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |
| 11AX160SISO | Ant1 | 6985 | 7058.7397 | ON | -87 | 3.70 | -90.70 | -62 | --- | --- | --- |

Note：Adjusted Power= Injected AWGN Power - Antenna Gain

| Test Mode | Antenna | Channel | Interference Frequency [MHz] | Status | T1 | T2 | T3 | T4 | T5 | T6 | T7 | T8 | T9 | T10 | Rate [%] | Limit [%] | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11AX20SISO | Ant1 | 6135 | 6135 | OFF | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 | PASS |
| 11AX20SISO | Ant1 | 6455 | 6455 | OFF | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90 | 90 | PASS |
| 11AX20SISO | Ant1 | 6695 | 6695 | OFF | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 90 | 90 | PASS |
| 11AX20SISO | Ant1 | 7015 | 7015 | OFF | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6185 | 6111.5754 | OFF | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6185 | 6185 | OFF | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6185 | 6258.5307 | OFF | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 90 | 90 | PASS |
| 11AX160SISO | Ant1 | 6505 | 6431.4074 | OFF | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6505 | 6505 | OFF | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6505 | 6578.5024 | OFF | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 90 | 90 | PASS |
| 11AX160SISO | Ant1 | 6825 | 6751.8896 | OFF | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6825 | 6825 | OFF | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6825 | 6898.7547 | OFF | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6985 | 6911.8645 | OFF | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 90 | 90 | PASS |
| 11AX160SISO | Ant1 | 6985 | 6985 | OFF | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 | PASS |
| 11AX160SISO | Ant1 | 6985 | 7058.7397 | OFF | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 90 | 90 | PASS |

Note: CBP Detection Trials (1=Detection, 0=No Detection).

## Test Graphs

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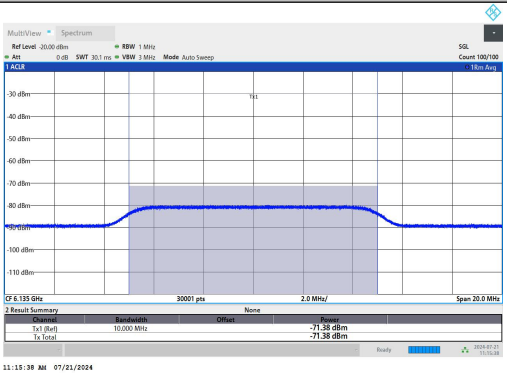
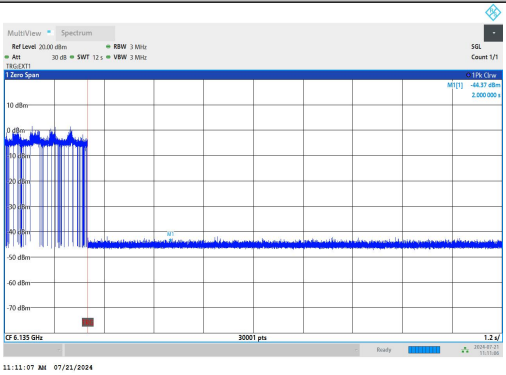
|  |  |
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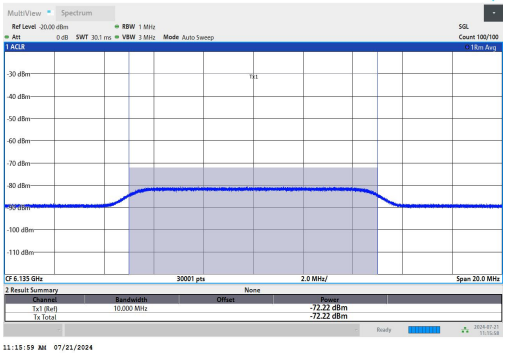
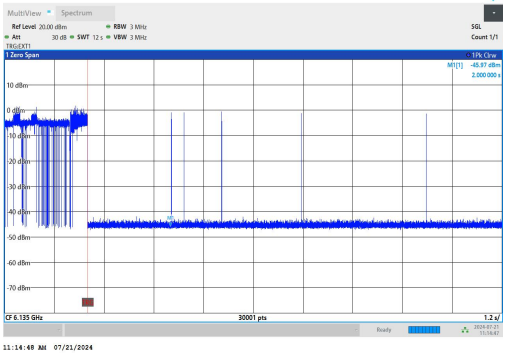
|  |  |
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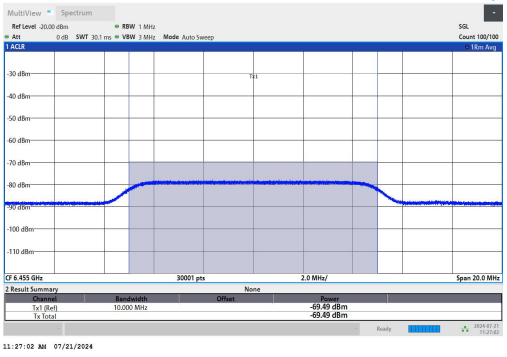
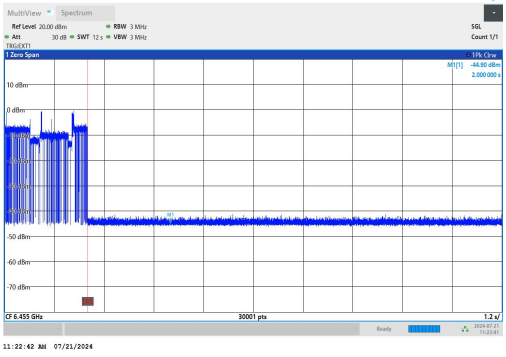
|  |  |
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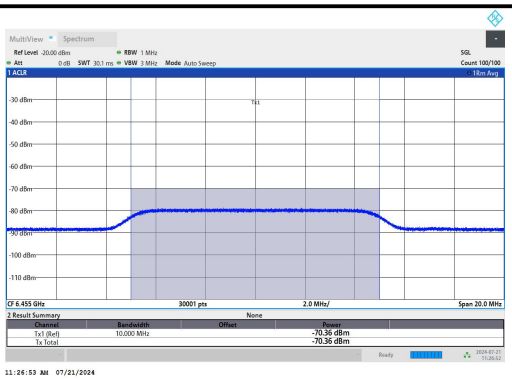


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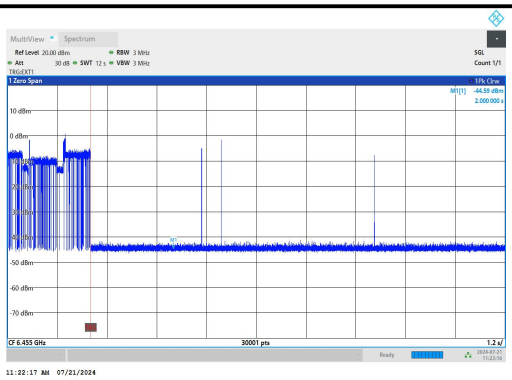


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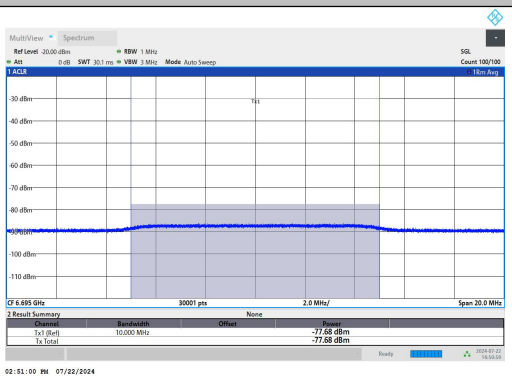


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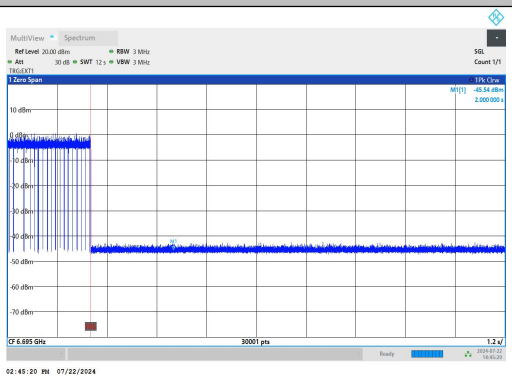


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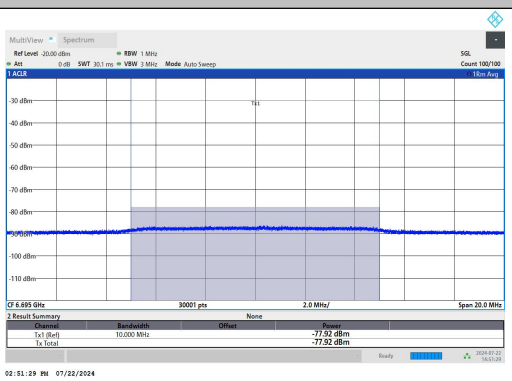


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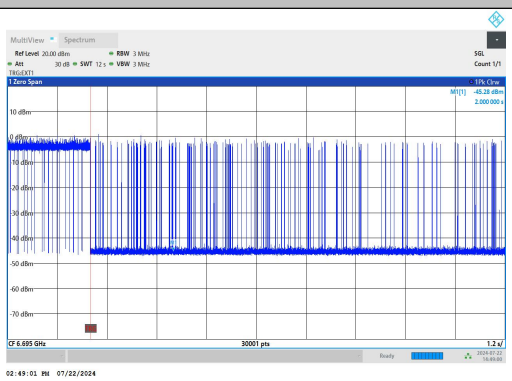


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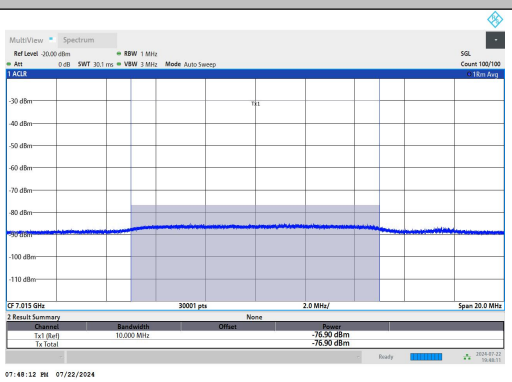


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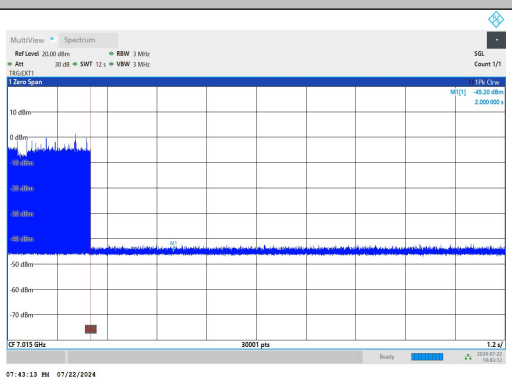


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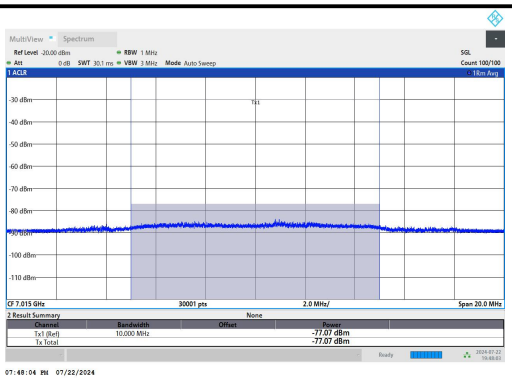


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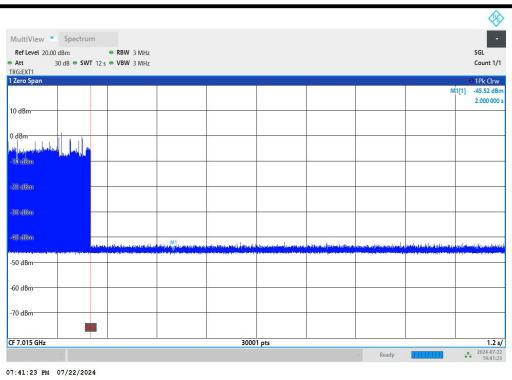


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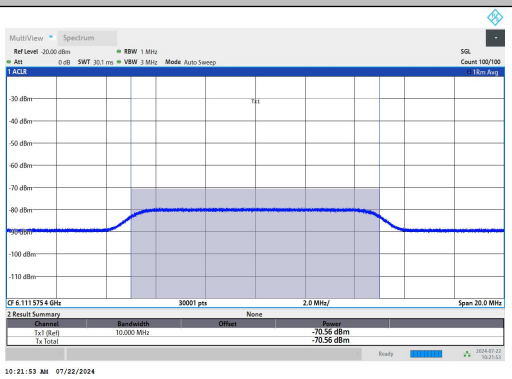


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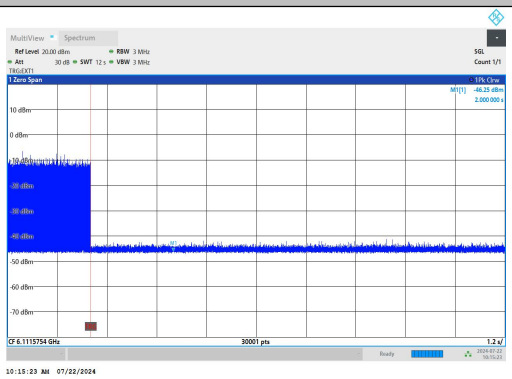


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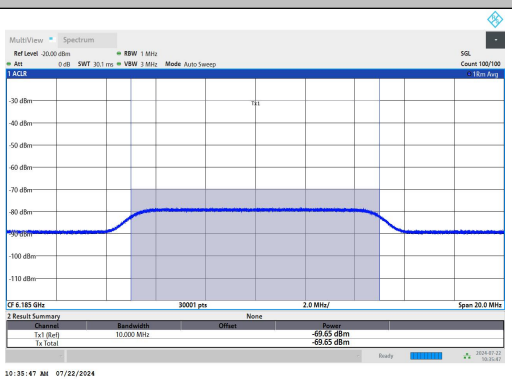


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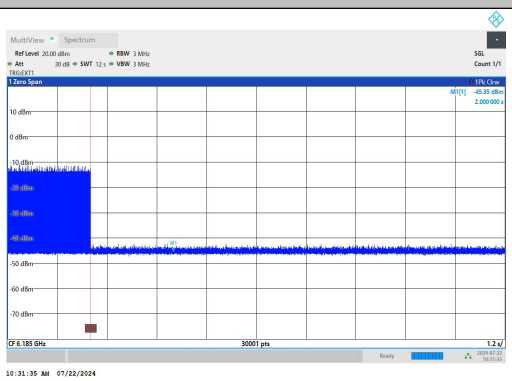


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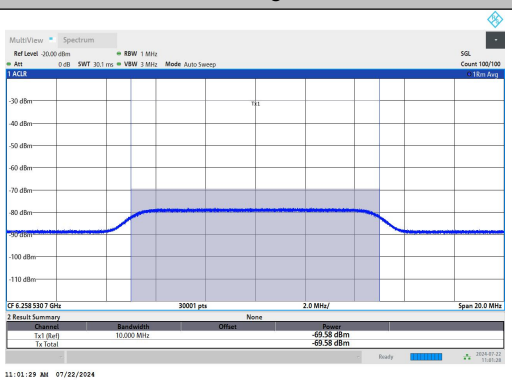


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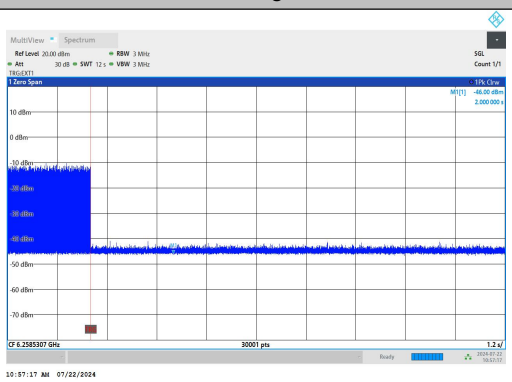


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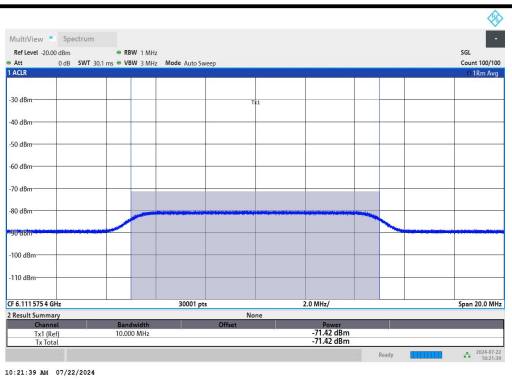


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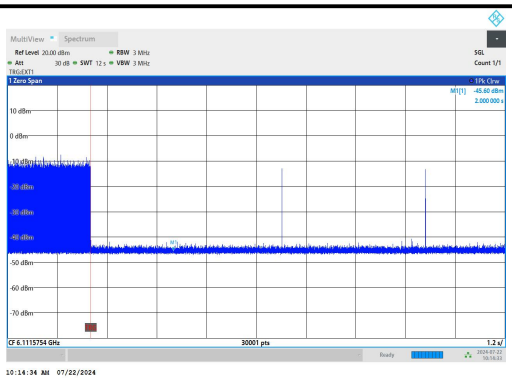


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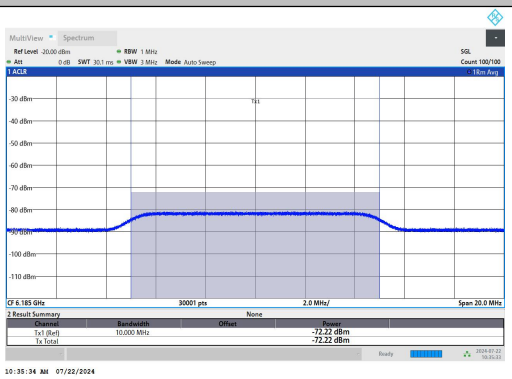


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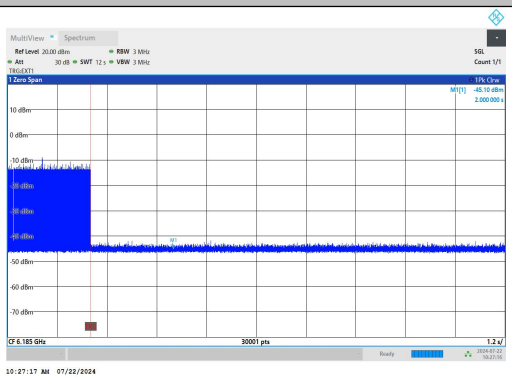


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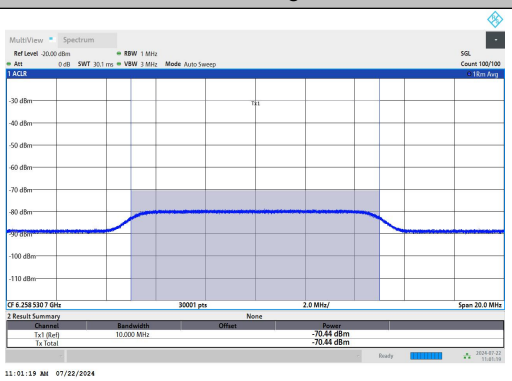


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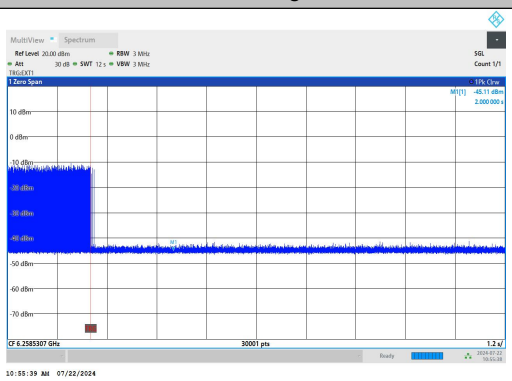


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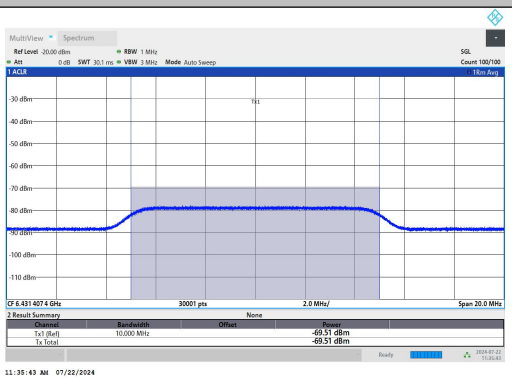


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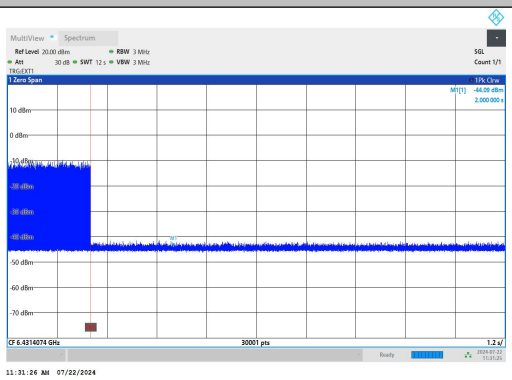


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