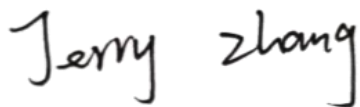


RF Test Report

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.

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



Test Report

Report No.: PD20240028RF10

Report Version: 01

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 802.11ax 20M/40M/80M/160M
Antenna Gain	3.70dBi(Ant1), 2.90dBi(Ant2)
Test Band	U-NII-5: 5925 MHz~ 6425 MHz U-NII-6: 6425 MHz~ 6525 MHz U-NII-7: 6525 MHz~ 6875 MHz 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.

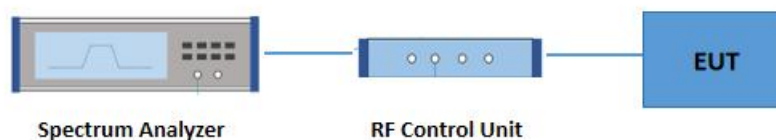
4.1.2 Measuring Instruments

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 $\geq 3 \times$ RBW
4. Detector = Peak.
5. Trace mode = max hold
6. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the OBW and set the Video bandwidth (VBW) $\geq 3 \times$ 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 entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

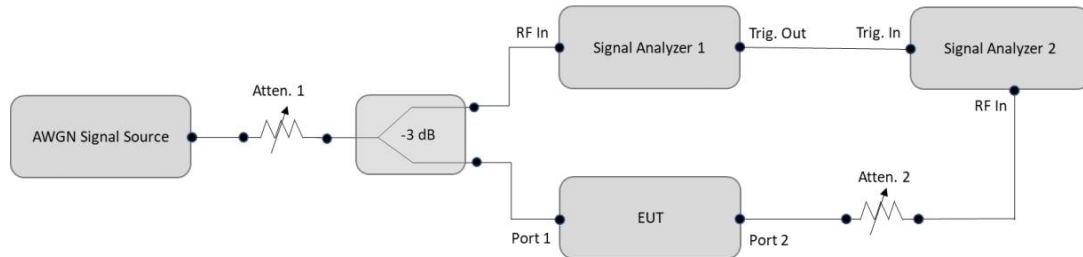
4.2.2 Measuring Instruments

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 EUT 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).

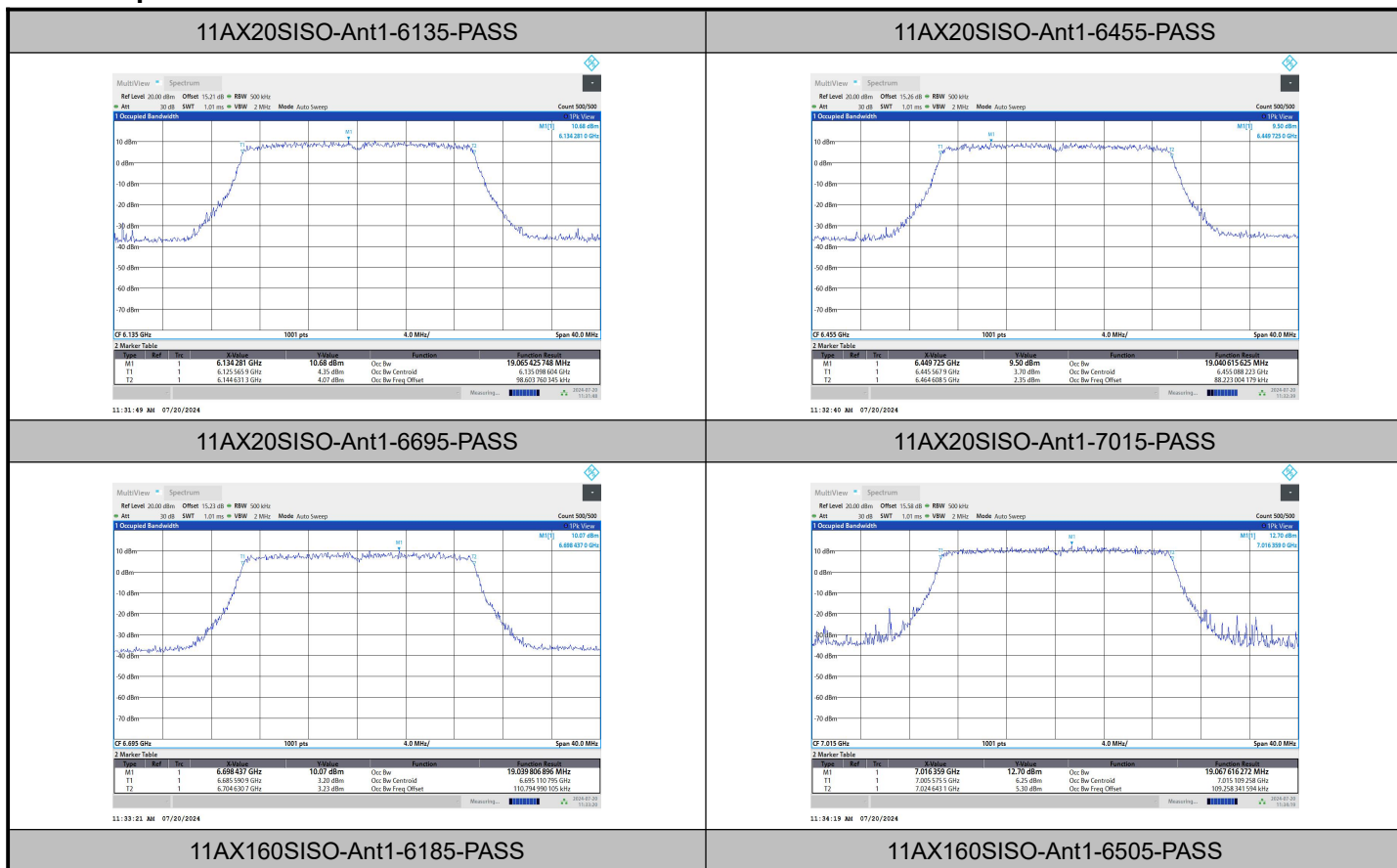
Appendix A – Test Results

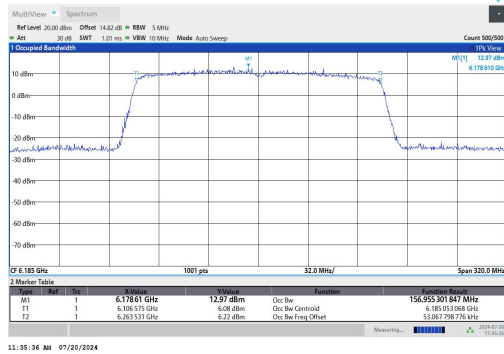
A.1 99% Occupied Bandwidth

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

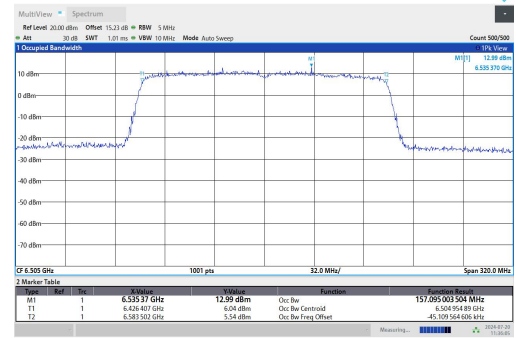
Test Graphs





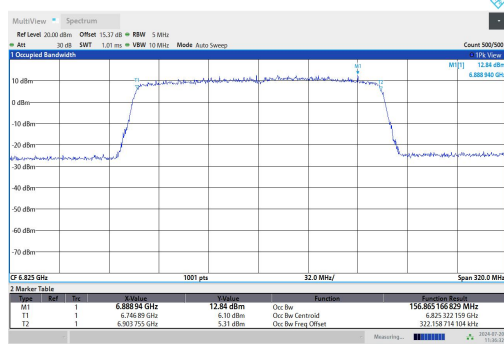
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11AX160SISO-Ant1-6825-PASS

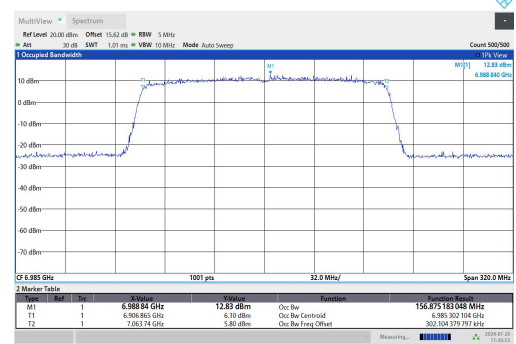


11:36:05 AM 07/20/2024

11AX160SISO-Ant1-6985-PASS



11:36:33 AM 07/20/2024



11:36:53 AM 07/20/2024

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	---	---	---

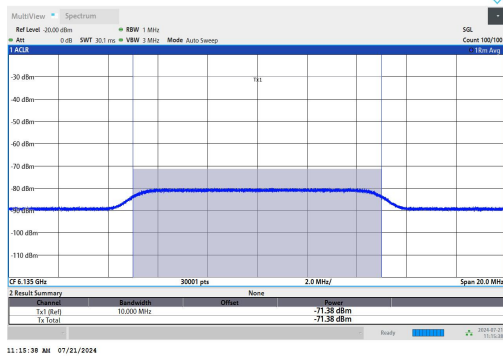
Note: Adjusted Power= Injected AWGN Power - Antenna Gain

Test Mode	Antenna	Channel	Interference Frequency [MHz]	Status	T 1	T 2	T 3	T 4	T 5	T 6	T 7	T 8	T 9	T 10	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).

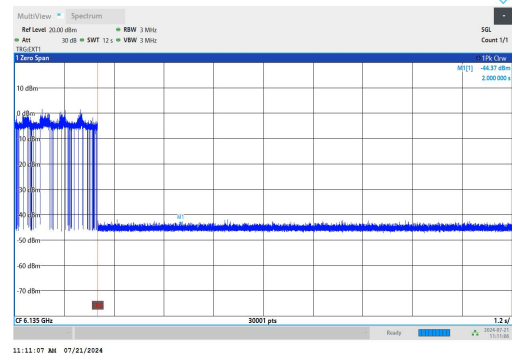
Test Graphs

11AX20SISO-Ant1-6135-Center-6135-OFF-PASS



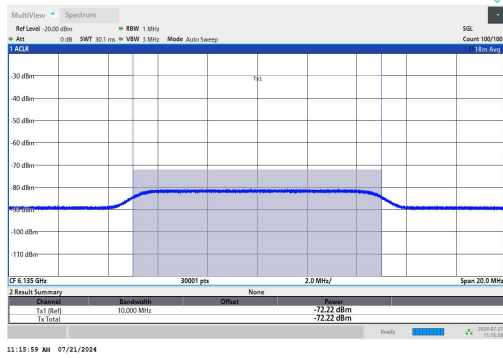
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11AX20SISO-Ant1-6135-Center-6135-OFF-PASS



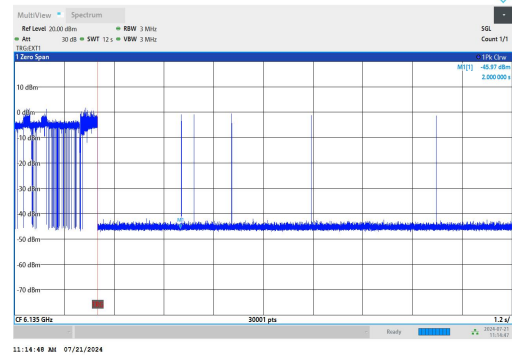
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11AX20SISO-Ant1-6135-Center-6135-Minimal



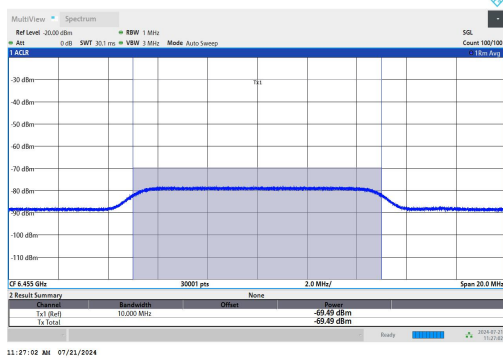
11:15:59 AM 07/21/2024

11AX20SISO-Ant1-6135-Center-6135-Minimal



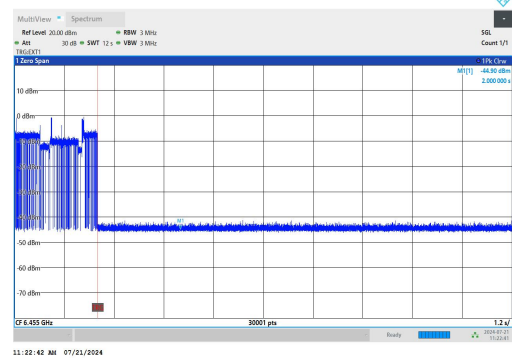
11:14:49 AM 07/21/2024

11AX20SISO-Ant1-6455-Center-6455-OFF-PASS



11:17:02 AM 07/21/2024

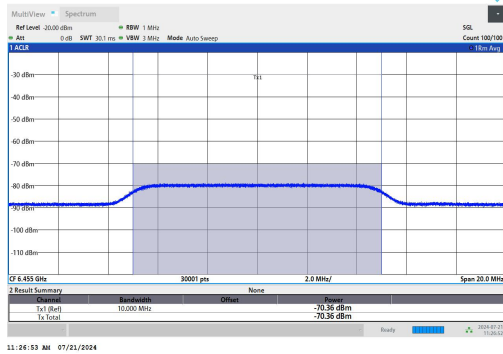
11AX20SISO-Ant1-6455-Center-6455-OFF-PASS



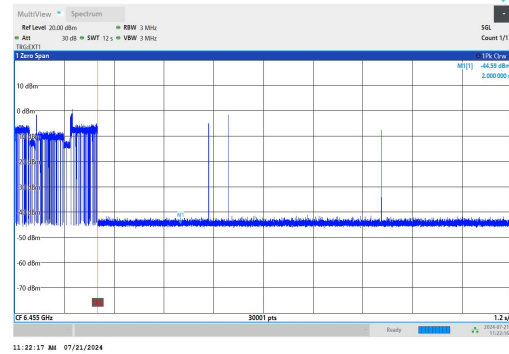
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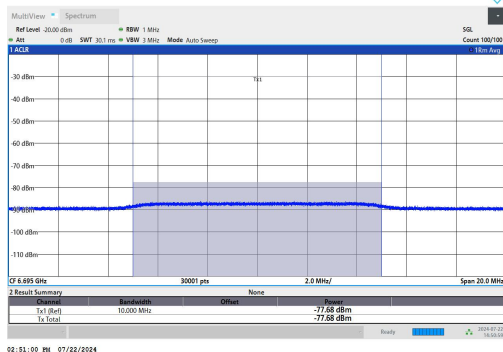
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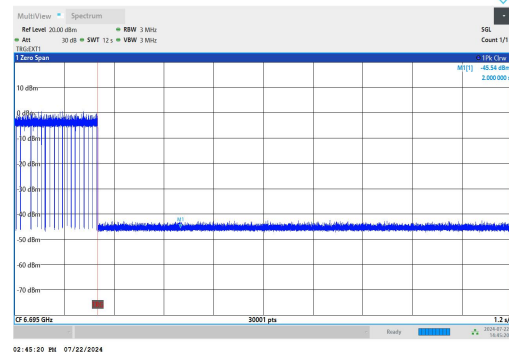
11AX20SISO-Ant1-6695-Center-6695-OFF-PASS



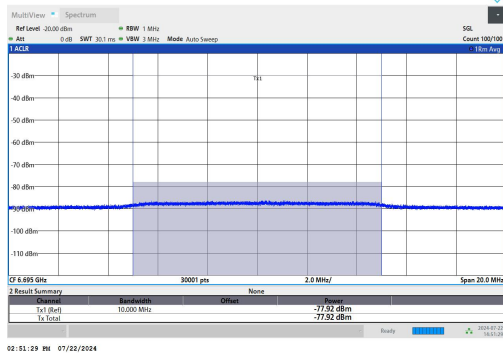
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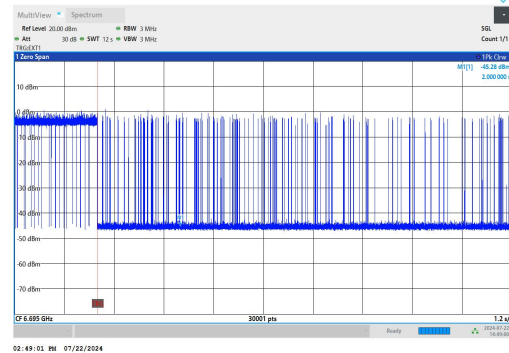
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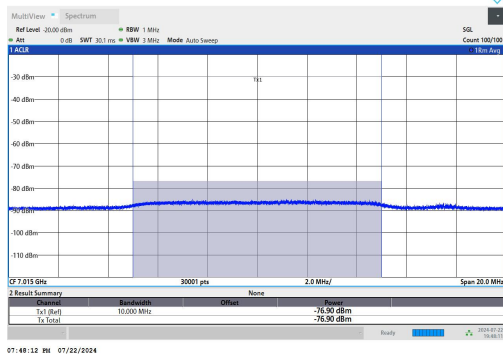
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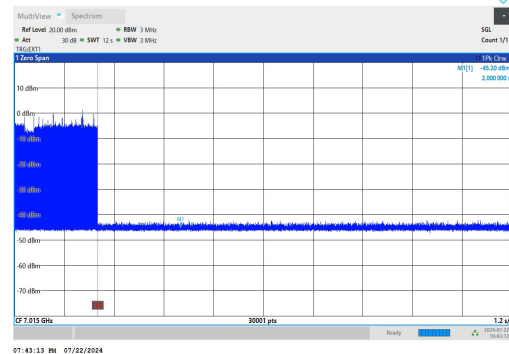
11AX20SISO-Ant1-7015-Center-7015-OFF-PASS



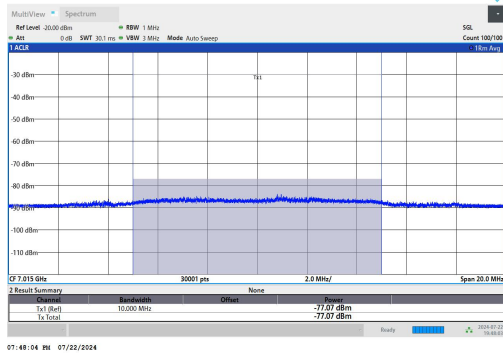
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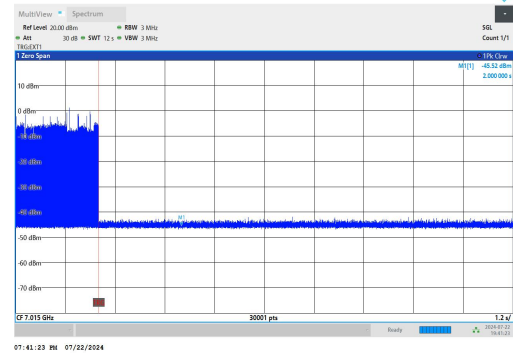
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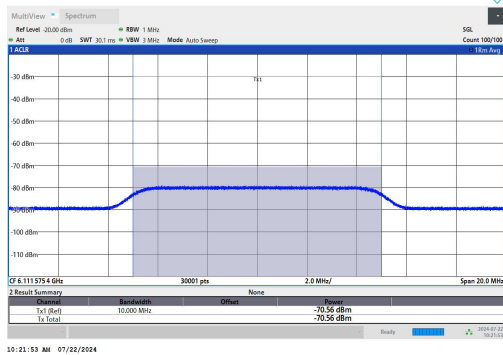
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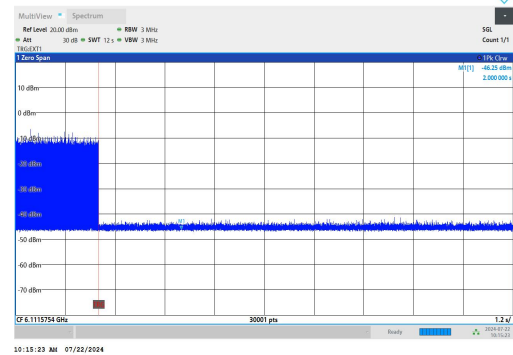
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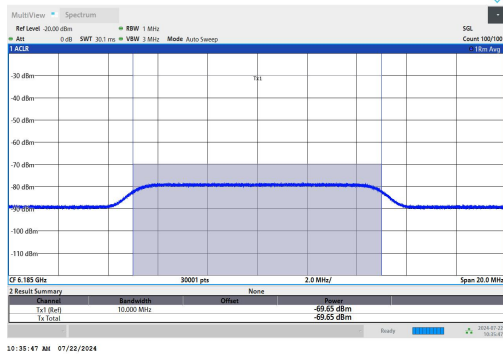
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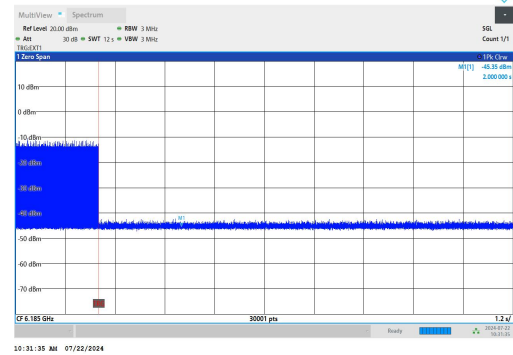
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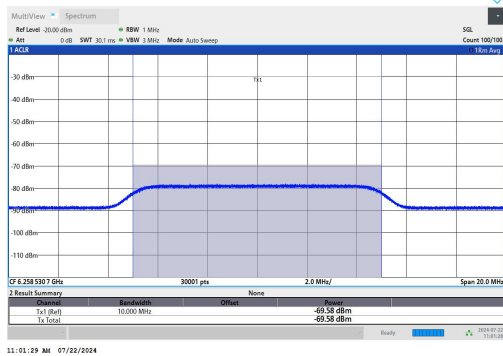
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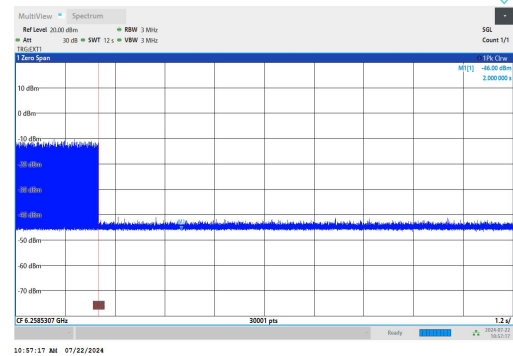
11AX160SISO-Ant1-6185-High-6258.5307-OFF-PASS



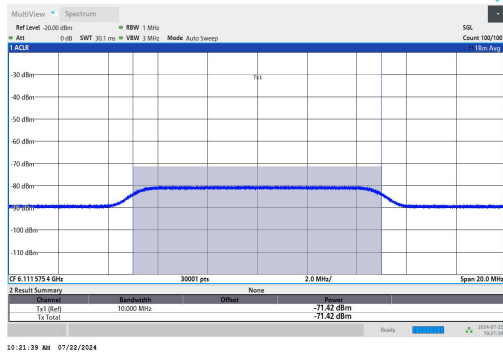
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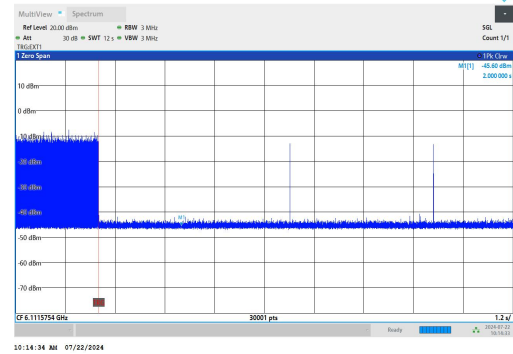
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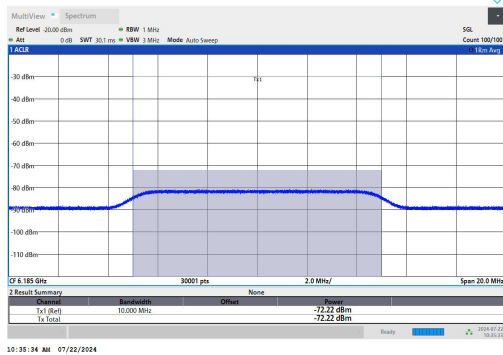
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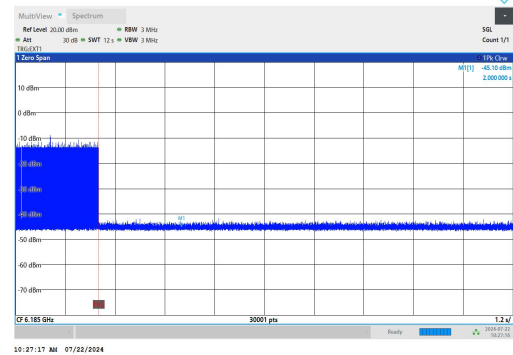
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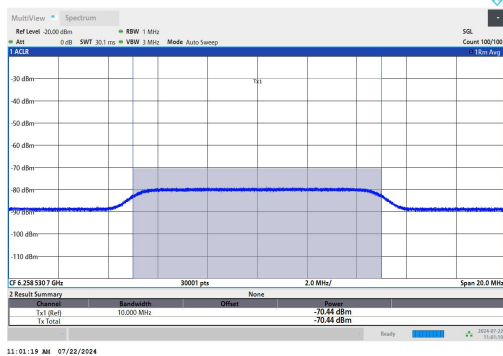
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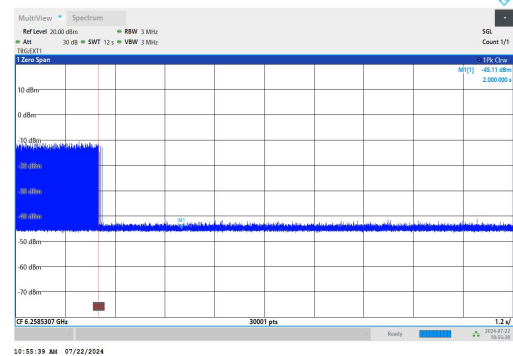
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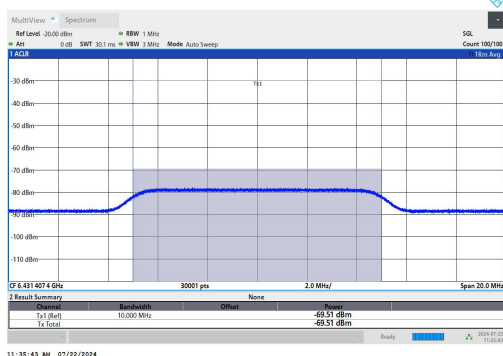
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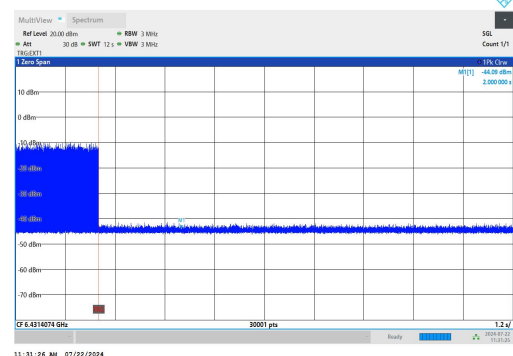
11AX160SISO-Ant1-6505-Low-6431.4074-OFF-PASS



11AX160SISO-Ant1-6505-Low-6431.4074-OFF-PASS



11AX160SISO-Ant1-6505-Center-6505-OFF-PASS



11AX160SISO-Ant1-6505-Center-6505-OFF-PASS