



Report No.: TW2502030-01E

Applicant: Topxgun (Nanjing) Robotics Co., Ltd.

Product: FP700

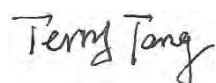
Model No.: 3WWDZ-U60B

Trademark: 
拓球机器人

Test Standards: FCC Part 15.247

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By



Terry Tang

Manager

Dated: March 13, 2025

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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Test Report Conclusion

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1.0 General Details


1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: Topxgun (Nanjing) Robotics Co., Ltd.
Address: No.3118 Jiyin Avenue, Jiangning District, Naniing, China

1.3 Description of EUT

Product: FP700
Manufacturer: Topxgun (Nanjing) Robotics Co., Ltd.
Address: No.3118 Jiyin Avenue, Jiangning District, Naniing, China
Trademark: 
Additional Trademark: N/A
Model Number: 3WWDZ-U60B
Additional Model Number: N/A
Hardware Version: 15.02.37
Software Version: 8.2.22
Serial No.: 2111FP702524B24C0022
Type of Modulation: OFDM
Frequency range: 2412-2462MHz
Channel Separation: 1MHz
Channel Number: 51
Rating: DC53.2V
Battery: DC53.2V, 2pcs 20000mAh battery
Antenna Designation: Two Fixed Dipole antennas, the gain is 3.30dBi maximum for each one (Get from the antenna specification)

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

2025-02-14 to 2025-03-13

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Andy Xing

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2024-07-12	2025-07-11
RF Cable	Zhengdi	7m	--	2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	N/A
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies
FCC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm/3kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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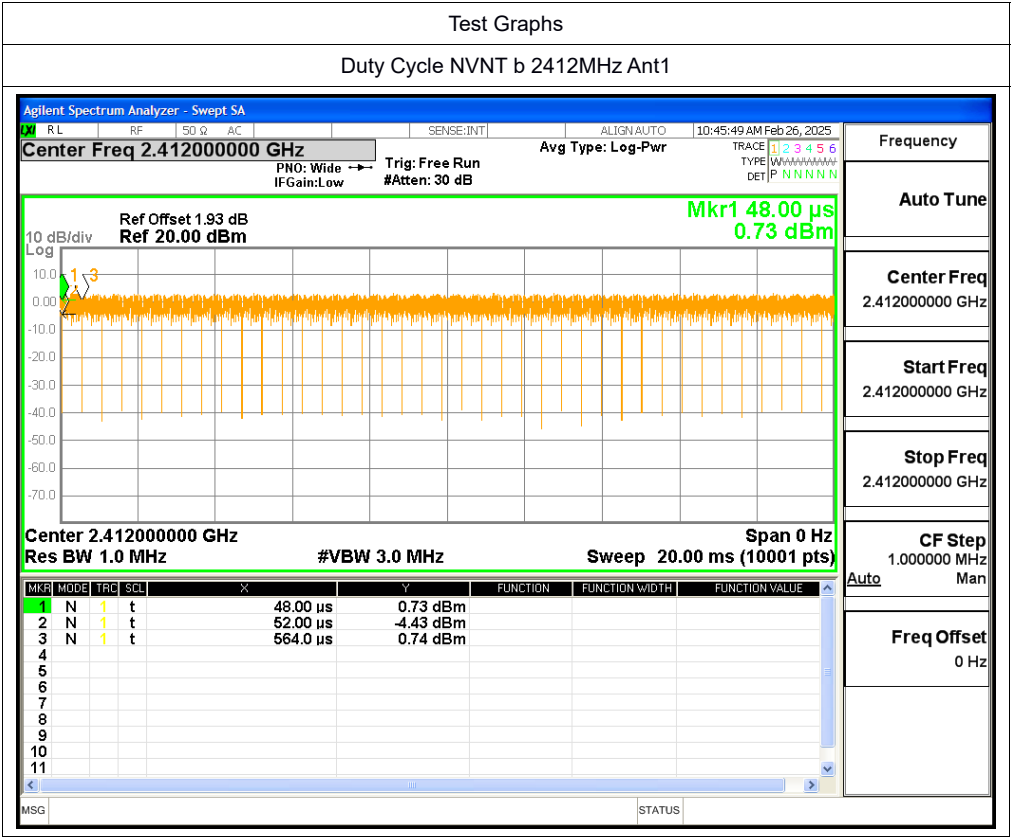
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5.0 Duty Cycle
10M Bandwidth

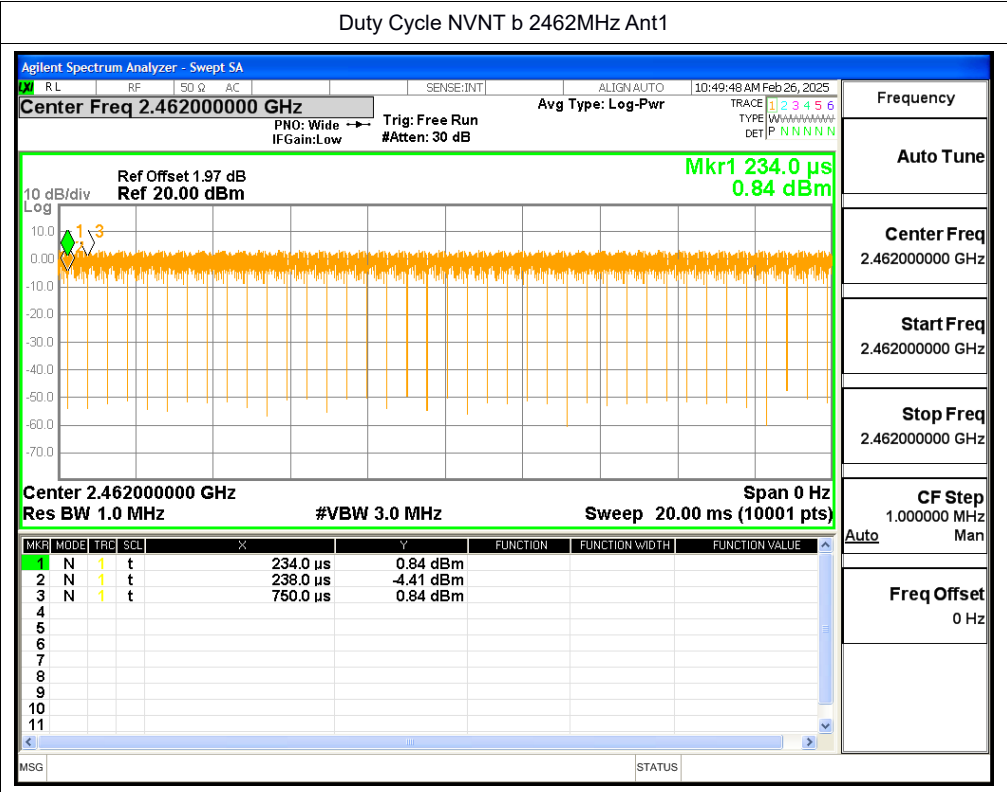
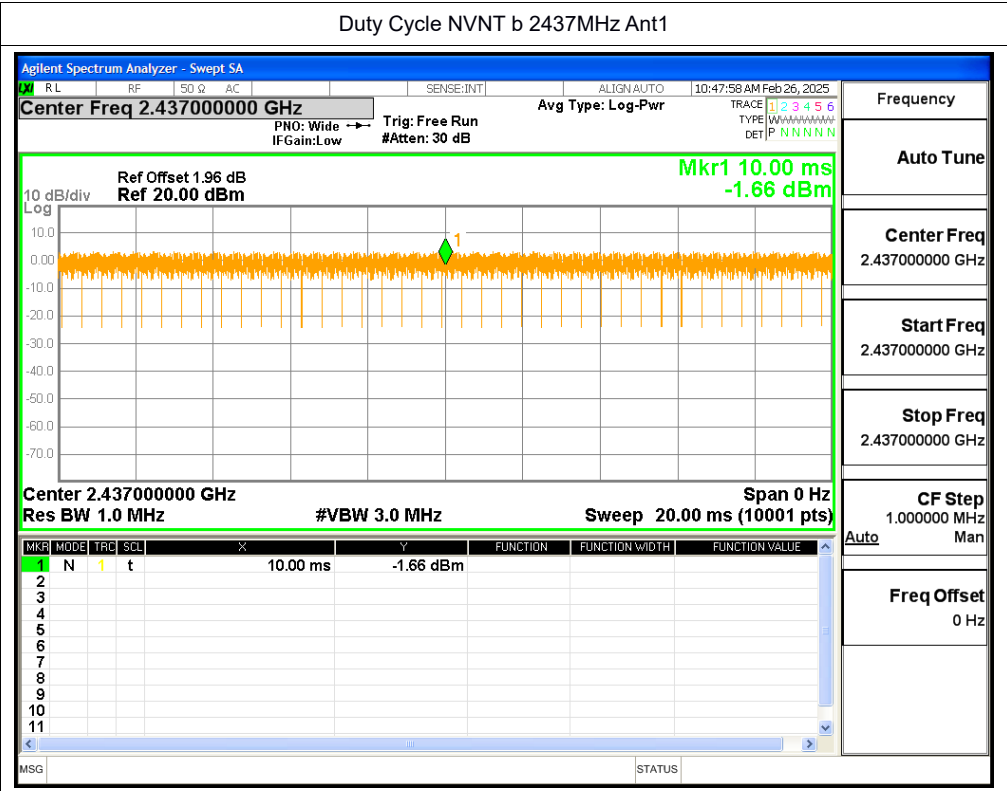
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.22	0	1.95
		2437		100	0	0
		2462		99.22	0	1.95



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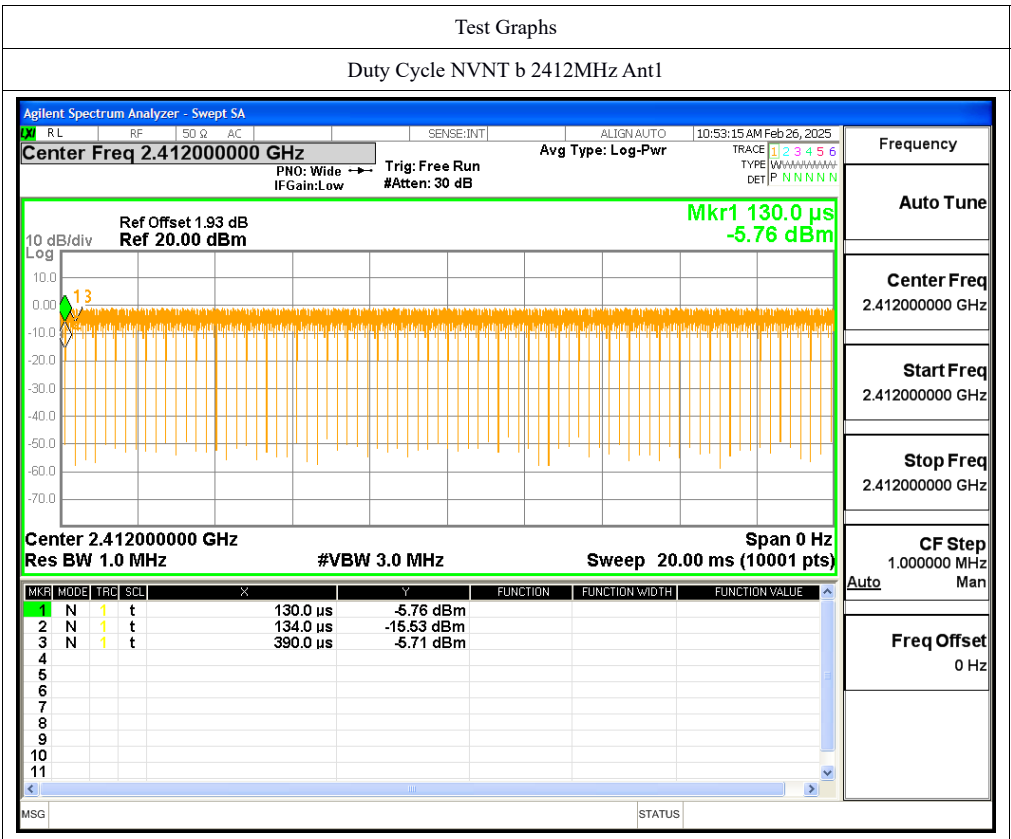
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20M Bandwidth

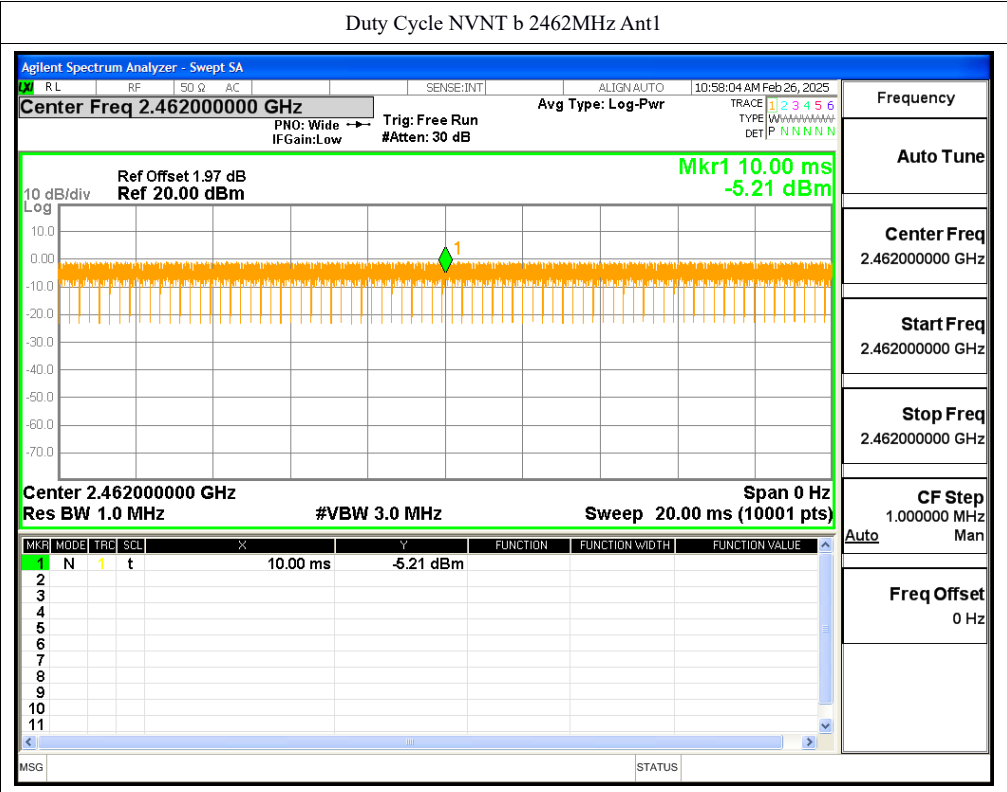
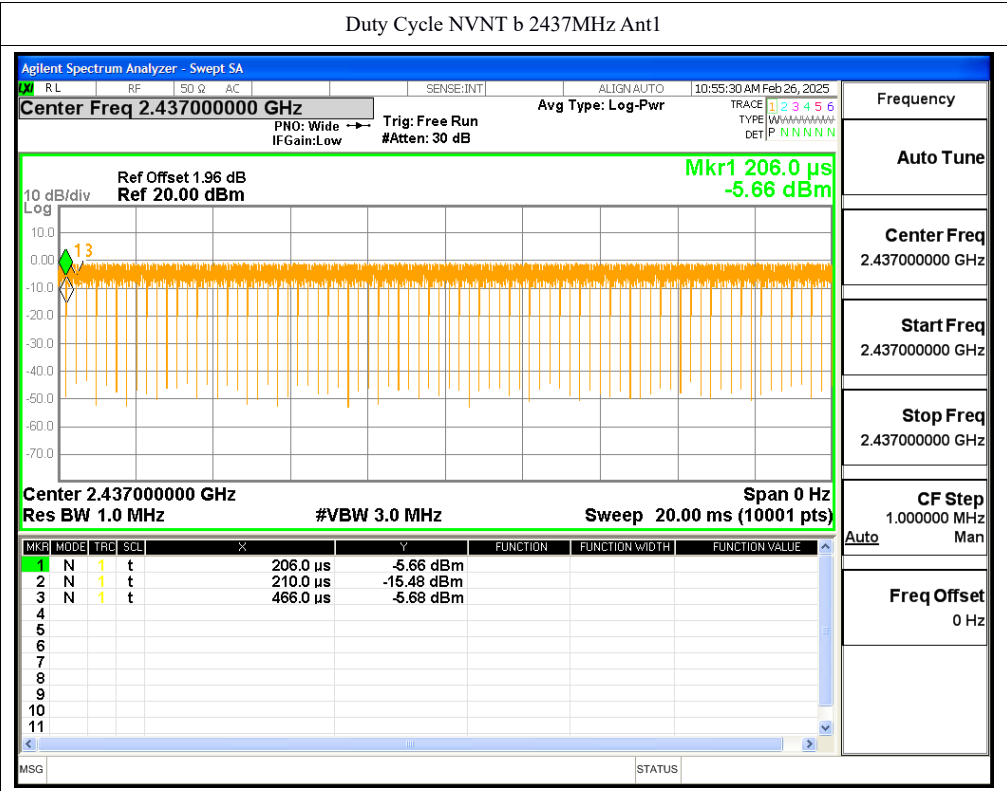
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	98.46	0	3.91
		2437		98.46	0	3.91
		2462		100	0	0



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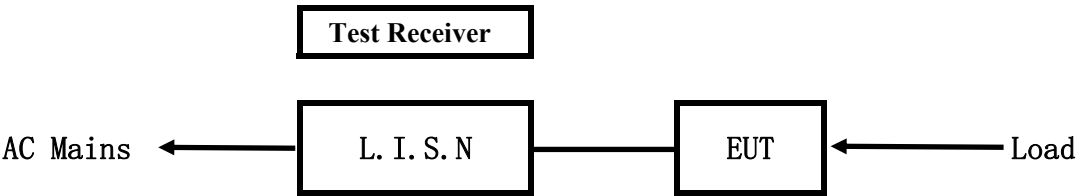
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6.0 Power Line Conducted Emission Test

6.1 Schematics of the test



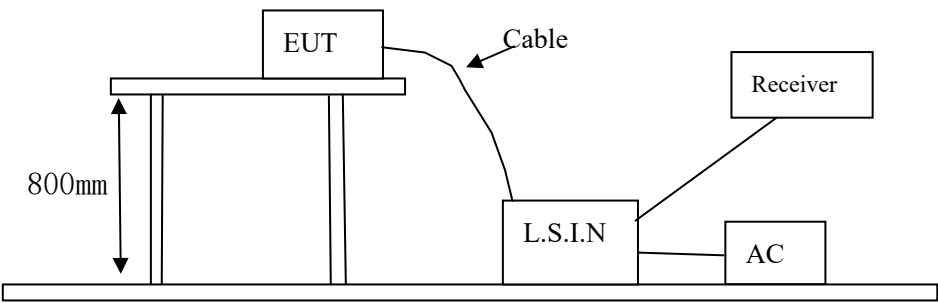
EUT: Equipment Under Test

6.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: N/A

Block diagram of Test setup



6.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
FP700	Topxgun (Nanjing) Robotics Co., Ltd.	3WWDZ-U60B	2BCSK3WWDZ-U60B

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
N/A	--	--	--

6.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

6.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

6.6 Test Results

N/A

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: EUT not directly or in-directly connected to the AC power source. so this test item not applicable.

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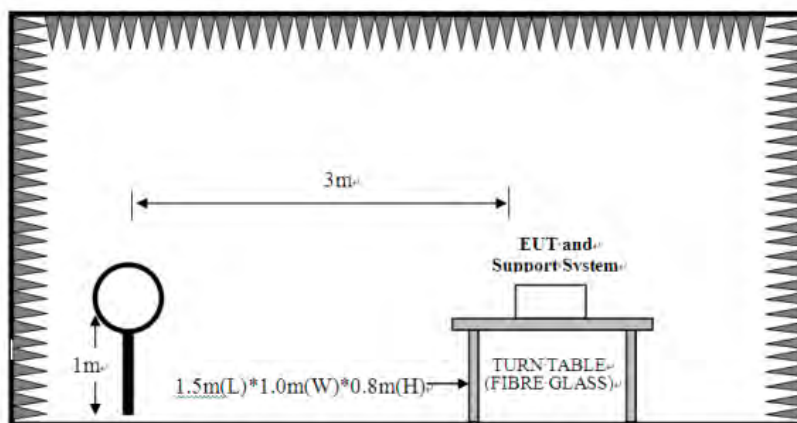
7.0 Radiated Emission Test

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



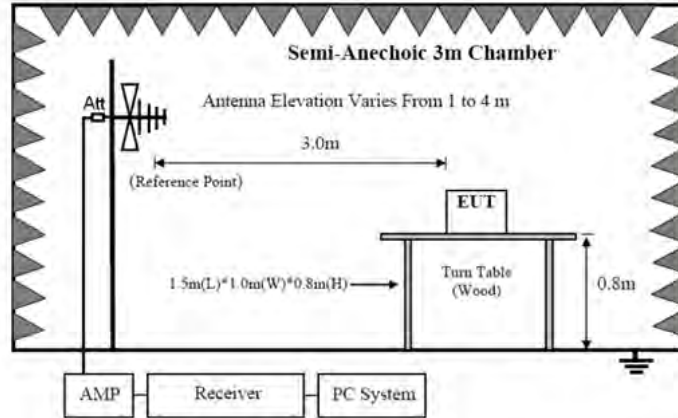
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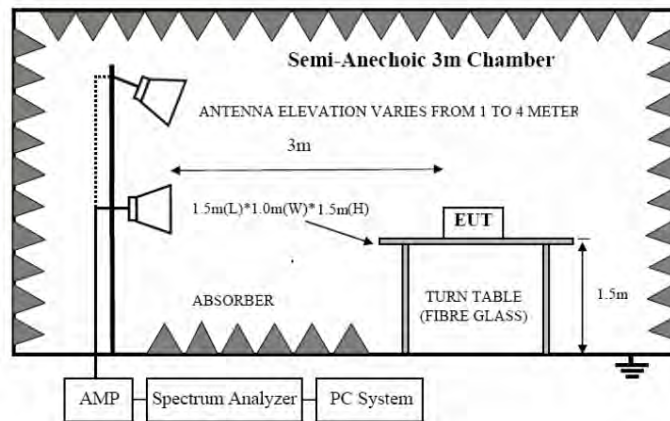
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



7.2 Configuration of The EUT

Same as section 5.3 of this report

7.3 EUT Operating Condition

Same as section 5.4 of this report.

7.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	$20\log(2400/F(\text{kHz})) + 40\log(300/3)$
0.490-1.705	3	$20\log(24000/F(\text{kHz})) + 40\log(30/3)$
1.705-30	3	69.5
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = $20 \log$ RF Voltage (μ V)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. Battery was fully charged during test
 5. MIMO Mode was tested

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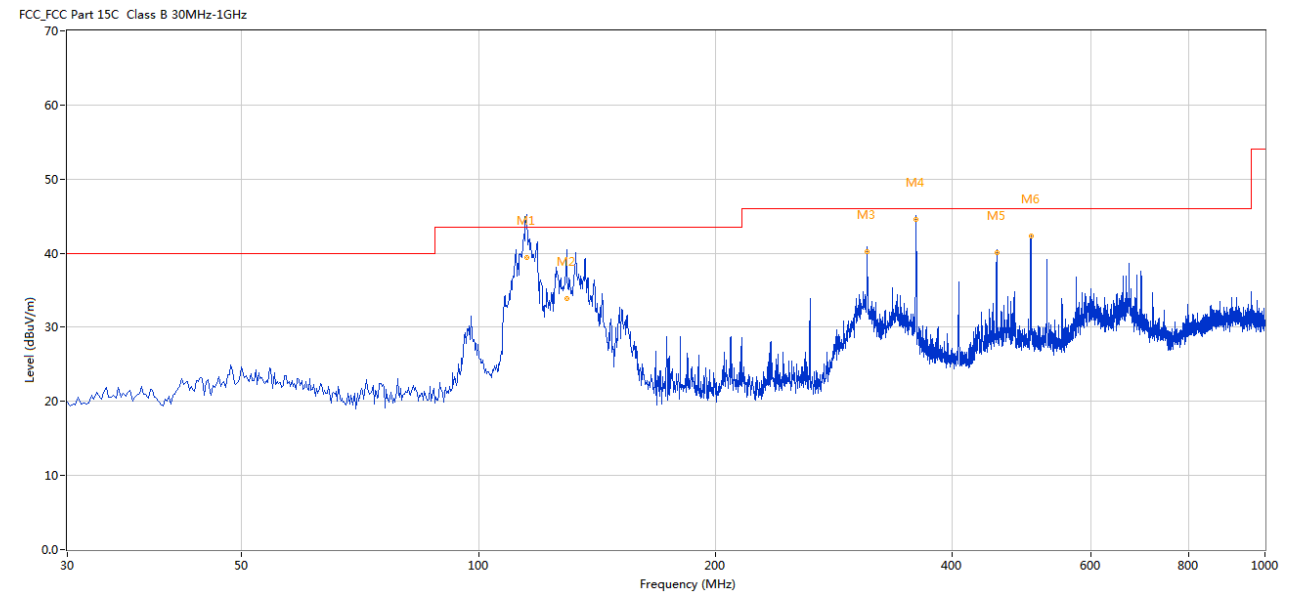
Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1*	115.339	39.38	-7.49	43.5	4.12	QP	78.00	100	Horizontal	Pass
2*	129.400	33.91	-9.26	43.5	9.59	QP	86.00	100	Horizontal	Pass
3*	311.957	40.27	-4.76	46.0	5.73	QP	155.00	100	Horizontal	Pass
4*	359.960	44.56	-3.00	46.0	1.44	QP	137.00	100	Horizontal	Pass
5*	455.966	40.10	-2.36	46.0	5.90	QP	320.00	100	Horizontal	Pass
6*	503.969	42.27	-2.46	46.0	3.73	QP	336.00	100	Horizontal	Pass

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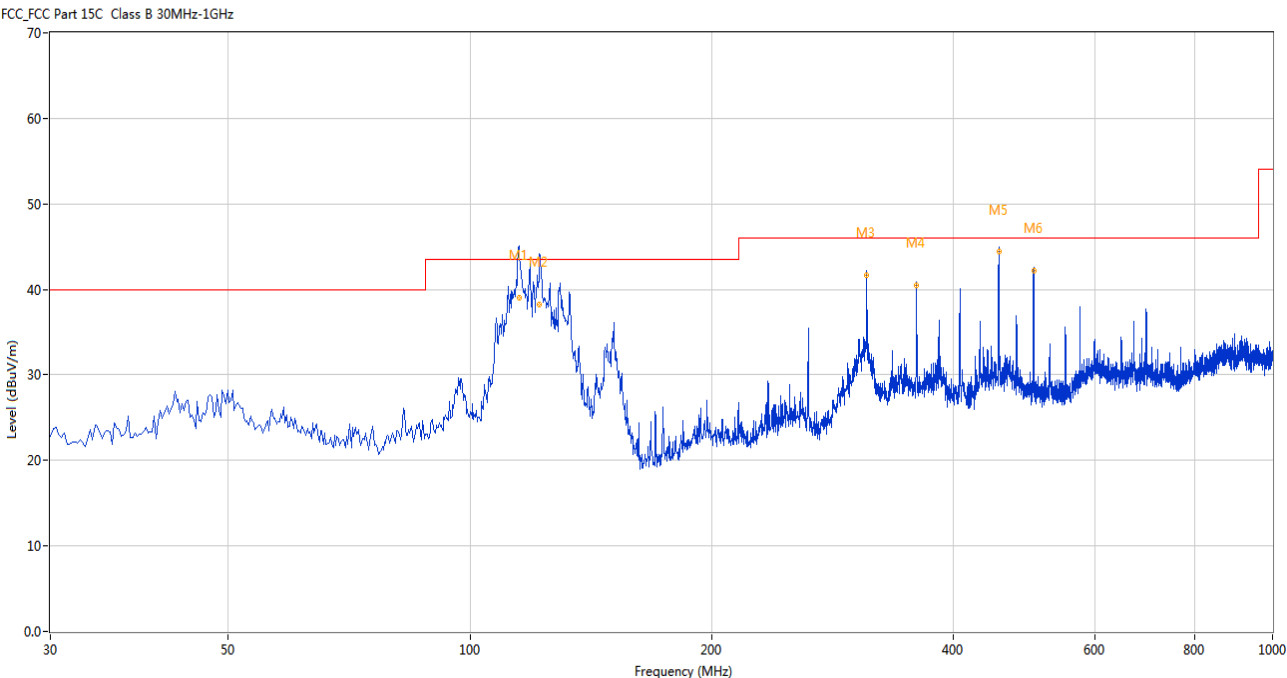
Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1*	115.096	39.05	-7.43	43.5	4.45	QP	231.00	100	Vertical	Pass
2*	122.127	38.28	-8.63	43.5	5.22	QP	329.00	100	Vertical	Pass
3*	311.957	41.61	-4.76	46.0	4.39	QP	337.00	100	Vertical	Pass
4*	359.960	40.48	-3.00	46.0	5.52	QP	186.00	100	Vertical	Pass
5*	455.966	44.47	-2.36	46.0	1.53	QP	107.00	100	Vertical	Pass
6*	503.969	42.17	-2.46	46.0	3.83	QP	82.00	100	Vertical	Pass

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10M Bandwidth

Operation Mode: Transmitting under Low Channel (2412MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4824.00	61.6 (PK) / 45.5 (AV)	H	74(Peak)/ 54(AV)
4824.00	56.5 (PK) / 41.4 (AV)	V	74(Peak)/ 54(AV)
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16884	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark “---” means that the emissions level is too low to be measured

Operation Mode: Transmitting g under Middle Channel (2437MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4874.00	59.3 (PK)/ 43.2 (AV)	H	74(Peak)/ 54(AV)
4874.00	55.0 (PK)/ 39.6 (AV)	V	74(Peak)/ 54(AV)
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark “---” means that the emissions level is too low to be measured

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Operation Mode: Transmitting under High Channel (2462MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4924	60.9 (PK) / 44.8 (AV)	H	74(Peak)/ 54(AV)
4924	56.3 (PK) / 41.0 (AV)	V	74(Peak)/ 54(AV)
7368	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24620	--	H/V	74(Peak)/ 54(AV)

Note: 1. Result Level = Reading + Factor

2. Factor= AF + Cable Loss- Preamp

3. Margin = Result– Limit

4. For radiated Emissions from 18-25GHz and below 30MHz, it is only the floor noise and less than the limit for more than 20dB. No necessary to take down.

5. Note: the final peak measurement results less than the AV limit. No necessary to take down the final AV measurement result

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20M Bandwidth

Operation Mode: Transmitting under Low Channel (2412MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4824.00	58.5 (PK) / 42.8 (AV)	H	74(Peak)/ 54(AV)
4824.00	53.8 (PK) / 38.3 (AV)	V	74(Peak)/ 54(AV)
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16884	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark “---” means that the emissions level is too low to be measured

Operation Mode: Transmitting g under Middle Channel (2437MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4874.00	56.0 (PK)/ 40.6 (AV)	H	74(Peak)/ 54(AV)
4874.00	52.3 (PK)/ 36.2 (AV)	V	74(Peak)/ 54(AV)
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark “---” means that the emissions level is too low to be measured

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Operation Mode: Transmitting under High Channel (2462MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4924	57.9 (PK) / 41.6 (AV)	H	74(Peak)/ 54(AV)
4924	53.8 (PK) /38.5 (AV)	V	74(Peak)/ 54(AV)
7368	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24620	--	H/V	74(Peak)/ 54(AV)

Note: 1. Result Level = Reading + Factor

2. Factor= AF + Cable Loss- Preamp

3. Margin = Result– Limit

4. For radiated Emissions from 18-25GHz and below 30MHz, it is only the floor noise and less than the limit for more than 20dB. No necessary to take down.

5. Note: the final peak measurement results less than the AV limit. No necessary to take down the final AV measurement result

The report refers only to the sample tested and does not apply to the bulk.

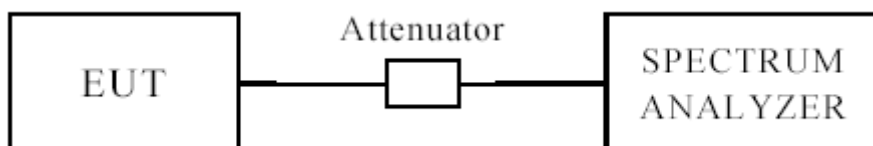
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8.0 6dB Bandwidth Measurement

8.1 Test Setup



8.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

8.3 Test Procedure

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

8.4 Test Result

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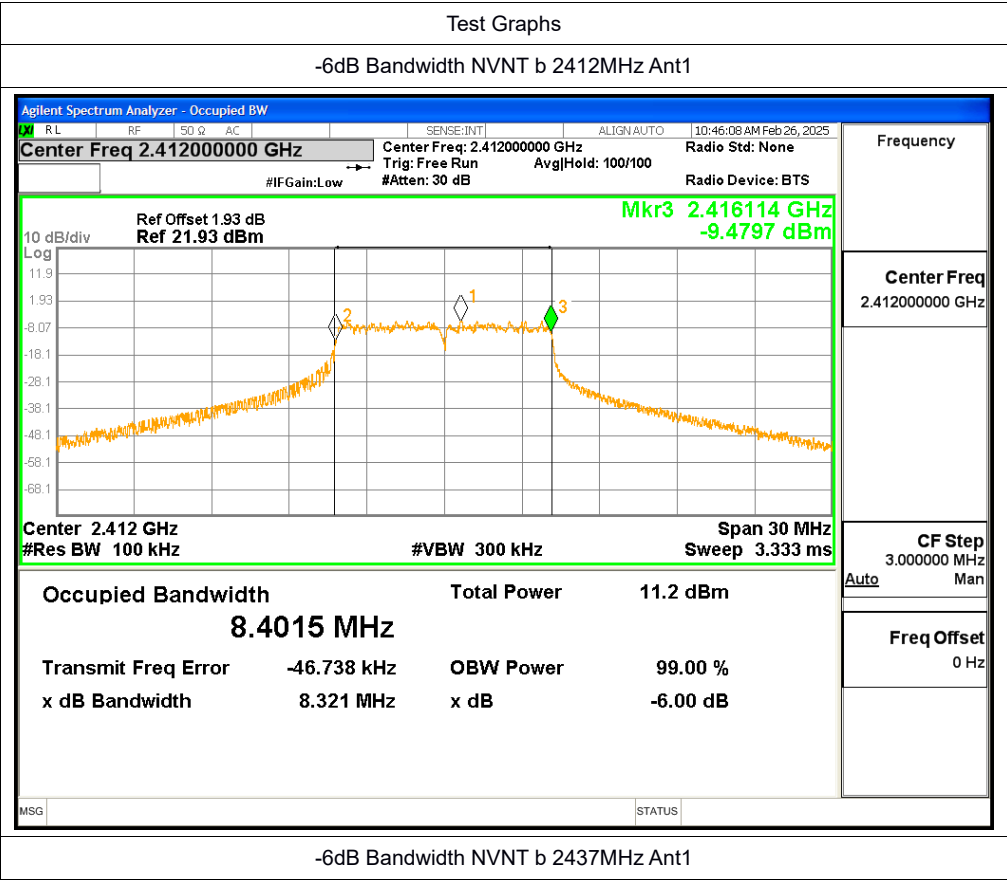
6dB BW

10M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.321	0.5	Pass
		2437		8.314	0.5	Pass
		2462		8.297	0.5	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 1 was the worst case.

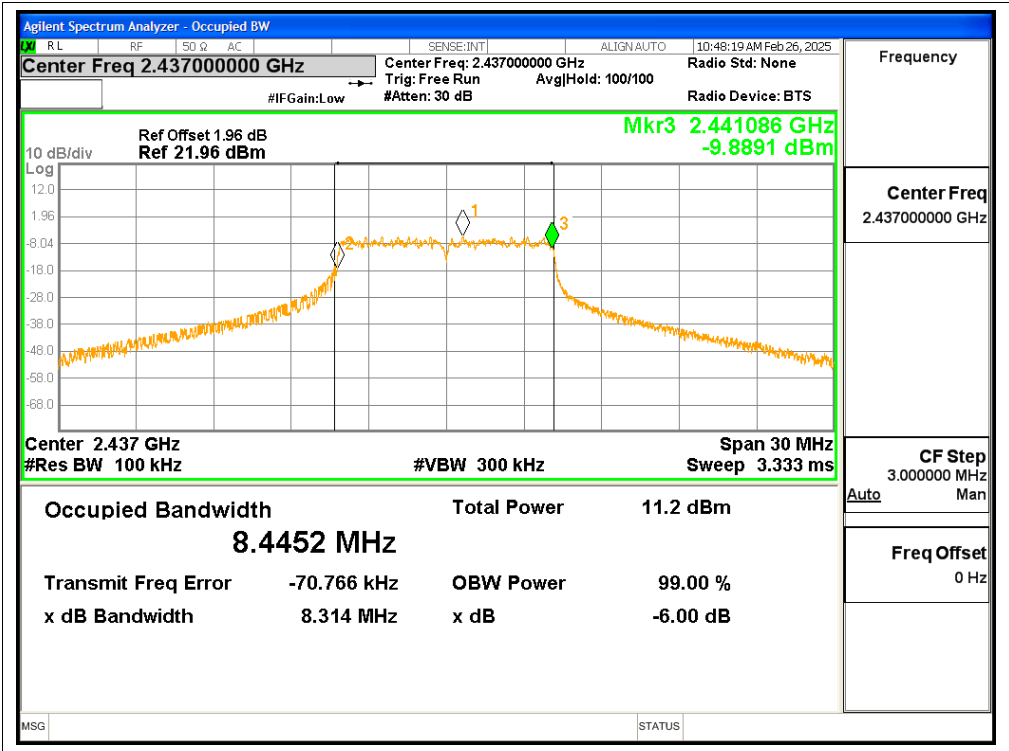
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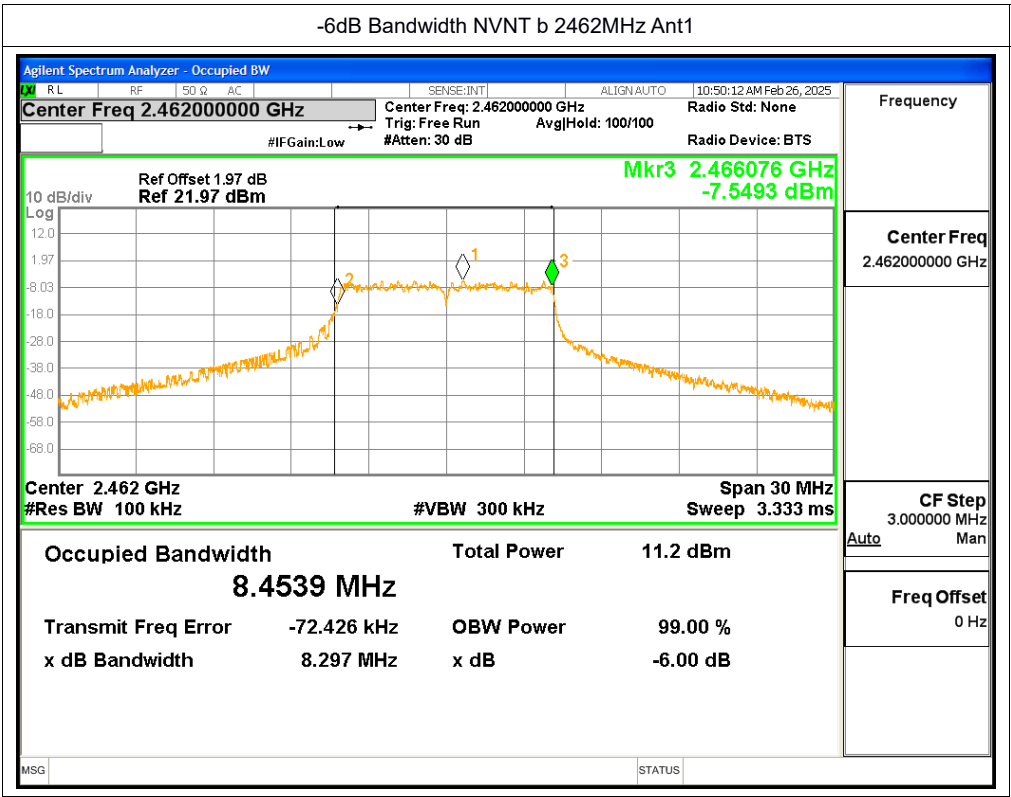
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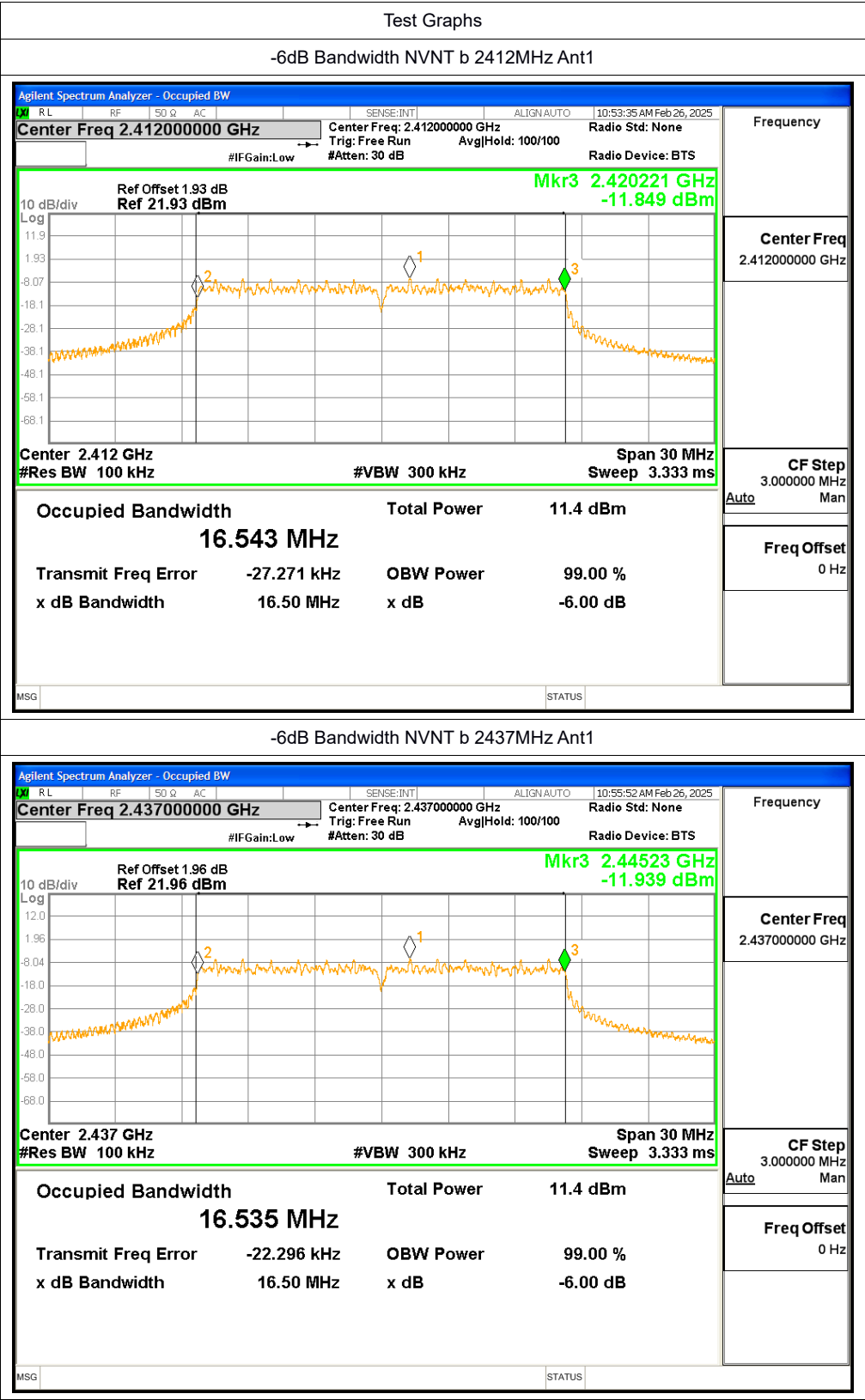


20M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	16.496	0.5	Pass
		2437		16.505	0.5	Pass
		2462		16.501	0.5	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst case was recorded in the test report. Ant 1 was the worst case.

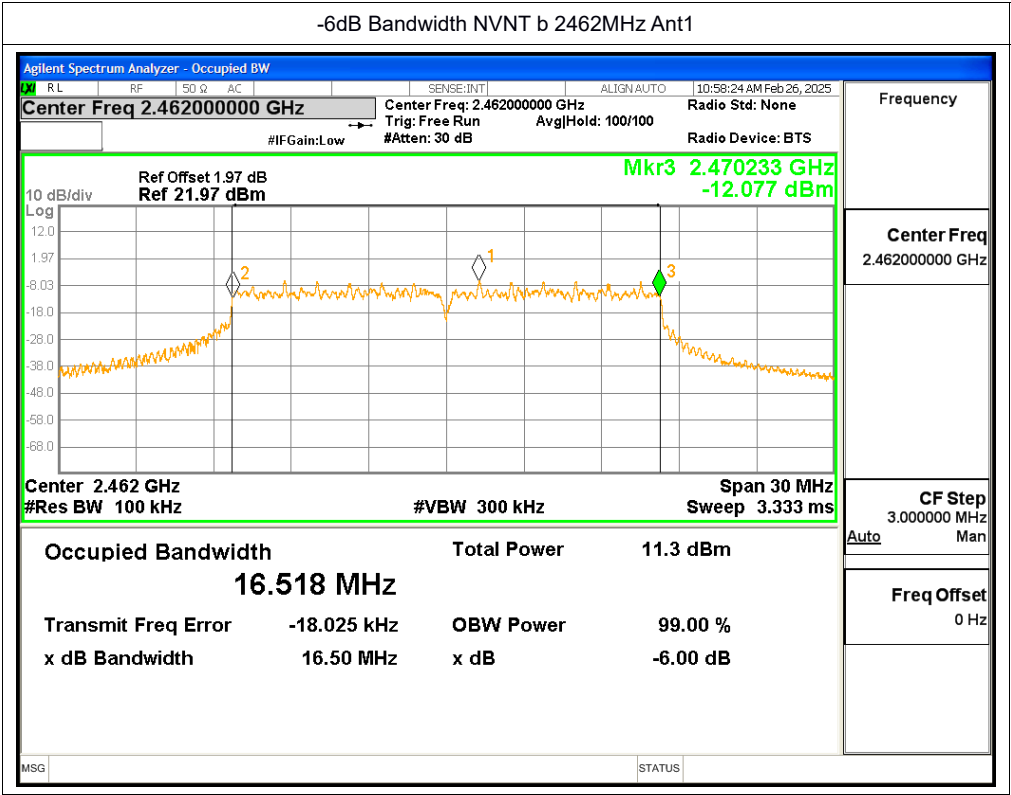
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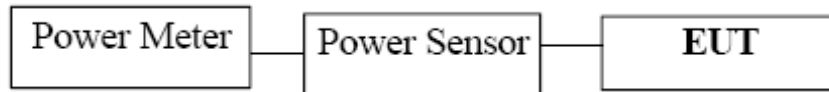
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9. Maximum Output Power

9.1 Test Setup



9.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

9.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the Peak power were measured.

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9.4 Test Results

10M Bandwidth

EUT		FP700				Model		3WWDZ-U60B	
Mode		802.11b 11Mbps				Test Voltage		DC53.2V	
Temperature		24 deg. C,				Humidity		56% RH	
Channel	Frequency (MHz)	Ant 1 Power		Ant 2 Power		Total Max. Power Output -MIMO (dBm)	Power Limit (dBm)	Pass/ Fail	
		dBm	mW	dBm	mW				
1	2412	5.62	3.65	5.12	3.25	8.39	30	Pass	
6	2437	5.61	3.64	5.10	3.24	8.37	30	Pass	
11	2462	5.57	3.61	5.06	3.21	8.33	30	Pass	

Note: 1. At final test to get the worst-case emission at mcs0 of 11n HT20 for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

3. The worse case was recorded

20M Bandwidth

EUT		FP700				Model		3WWDZ-U60B	
Mode		802.11b 11Mbps				Test Voltage		DC53.2V	
Temperature		24 deg. C,				Humidity		56% RH	
Channel	Frequency (MHz)	Ant 1 Power		Ant 2 Power		Total Max. Power Output-MIMO (dBm)	Power Limit (dBm)	Pass/ Fail	
		dBm	mW	dBm	mW				
1	2412	5.51	3.56	5.01	3.17	8.28	30	Pass	
6	2437	5.54	3.58	5.03	3.18	8.30	30	Pass	
11	2462	5.49	3.54	4.98	3.15	8.25	30	Pass	

Note: 1. At final test to get the worst-case emission at mcs0 of 11n HT20 for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

3. The worse case was recorded

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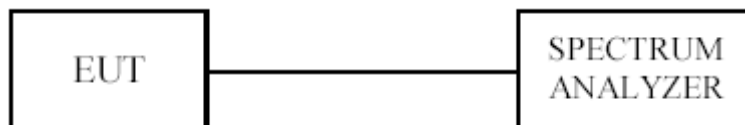
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10. Power Spectral Density Measurement

10.1 Test Setup



10.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

10.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 3 kHz.
3. Set the VBW \geq 10 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be \leq 8 dBm/3kHz.

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10.4 Test Result

EUT		FP700		Model	3WWDZ-U60B	
Mode		802.11b 11Mbps		Test Voltage	DC53.2V	
Temperature		24 deg. C,		Humidity	56% RH	
Channel	Frequency (MHz)	Ant 1 Power Spectral Density	Factor	Total Power Spectral Density-MIMO (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail
1	2412	-17.28	3.01	-14.27	8	Pass
6	2437	-17.16	3.01	-14.15	8	Pass
11	2462	-17.44	3.01	-14.43	8	Pass

Note: 1. Total Power Spectral Density = Ant1 Power Spectral Density + Factor

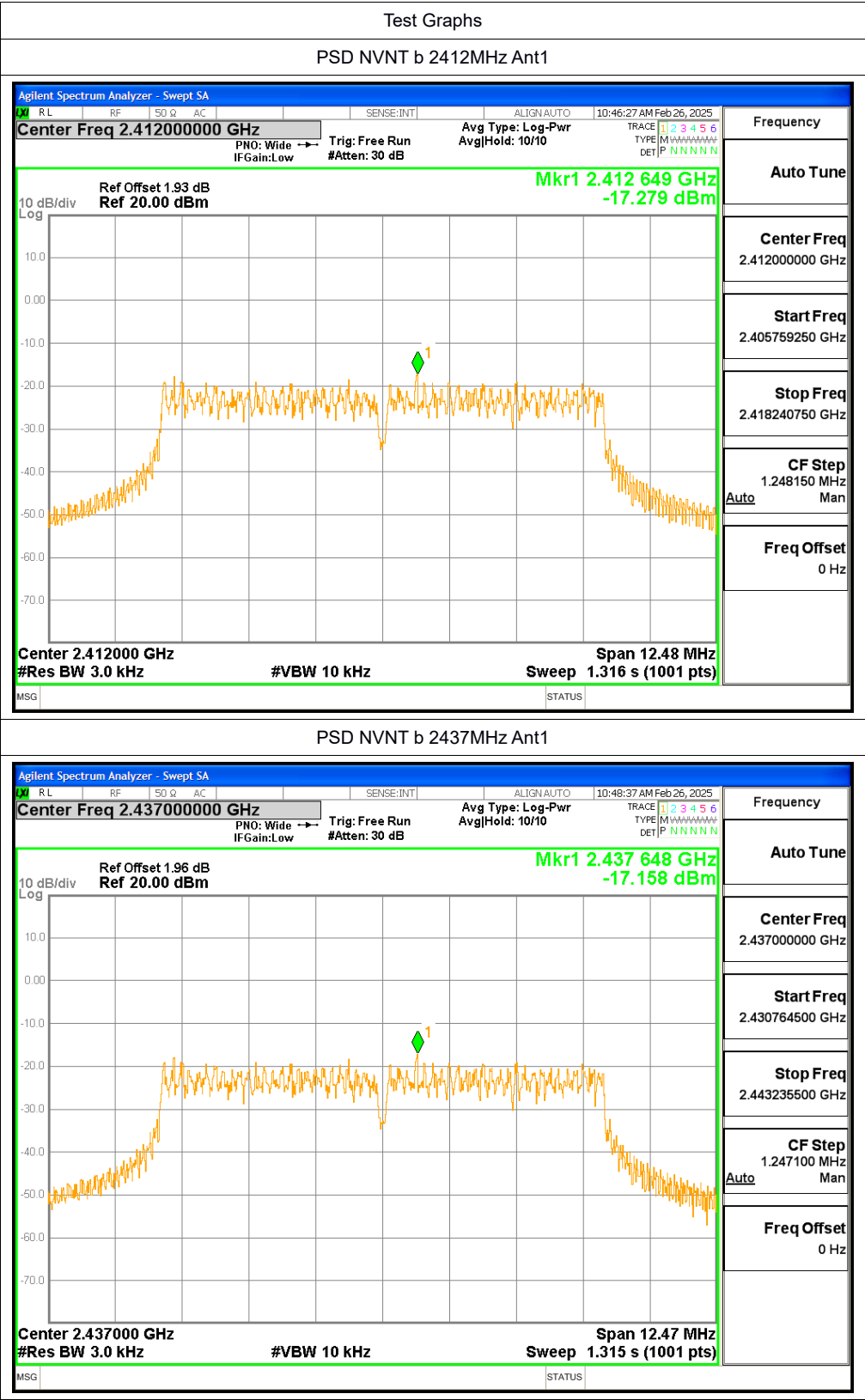
2. Factor=10log2=3.01

3. Ant 1 and Ant 2 were tested and Ant 1 was the worst case

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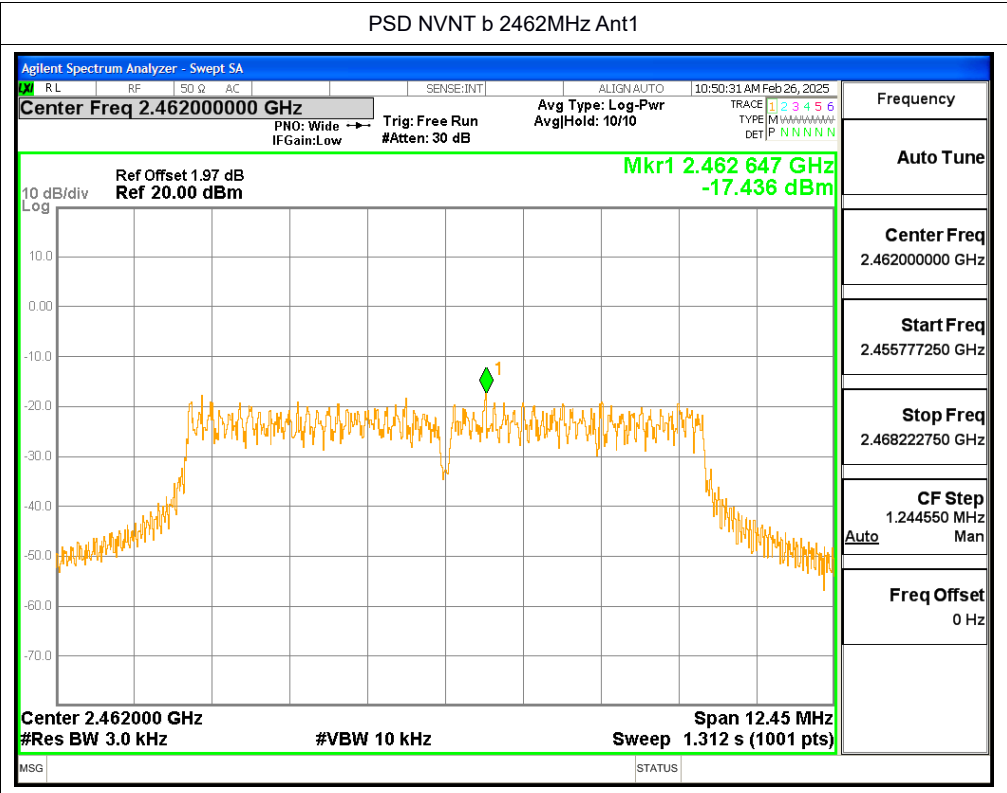
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20M Bandwidth

EUT		FP700		Model	3WWDZ-U60B	
Mode		802.11b 11Mbps		Test Voltage	DC53.2V	
Temperature		24 deg. C,		Humidity	56% RH	
Channel	Frequency (MHz)	Ant 1 Power Spectral Density	Factor	Total Power Spectral Density-MIMO (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail
1	2412	-20.77	3.01	-17.76	8	Pass
6	2437	-20.62	3.01	-17.61	8	Pass
11	2462	-20.68	3.01	-17.67	8	Pass

Note: 1. Total Power Spectral Density = Ant1 Power Spectral Density + Factor

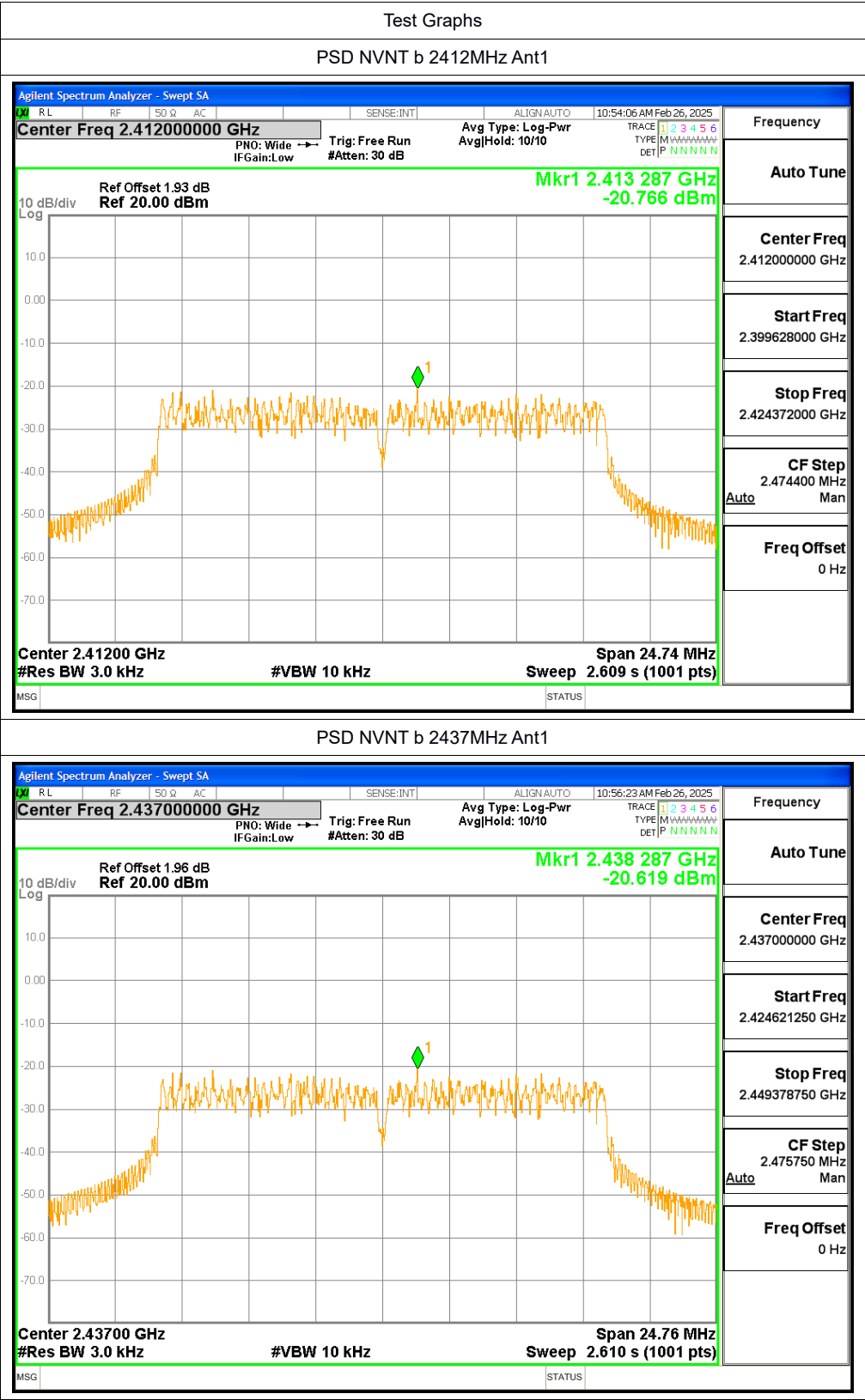
2. Factor= $10\log 2=3.01$

3. Ant 1 and Ant 2 were tested and Ant 1 was the worst case

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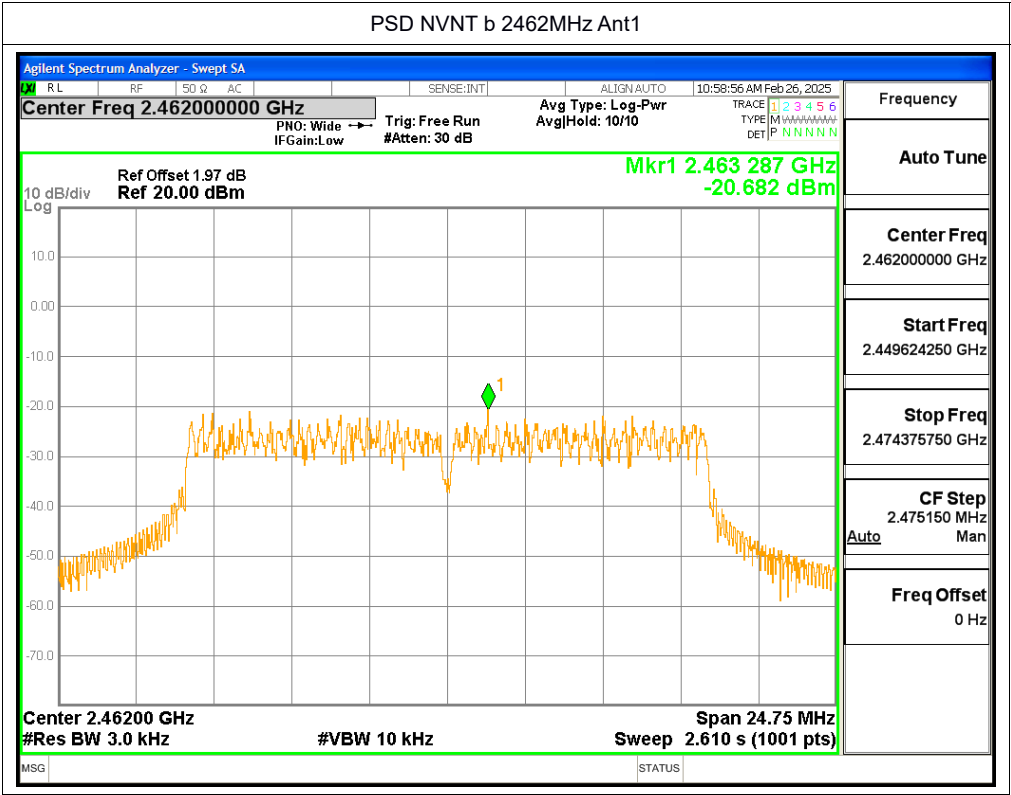
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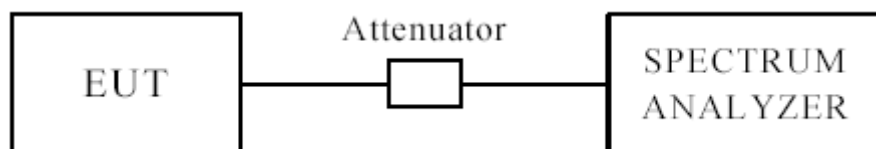
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11 Out of Band Measurement

11.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

11.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

11.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

11.4 Test Result

Please see next pages

Note: For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

2. Ant 1 and Ant 2 transmitting Simultaneously for RSE test

3. Ant 1 and Ant 2 were tested and Ant 1 was the worst case for conducted measurement

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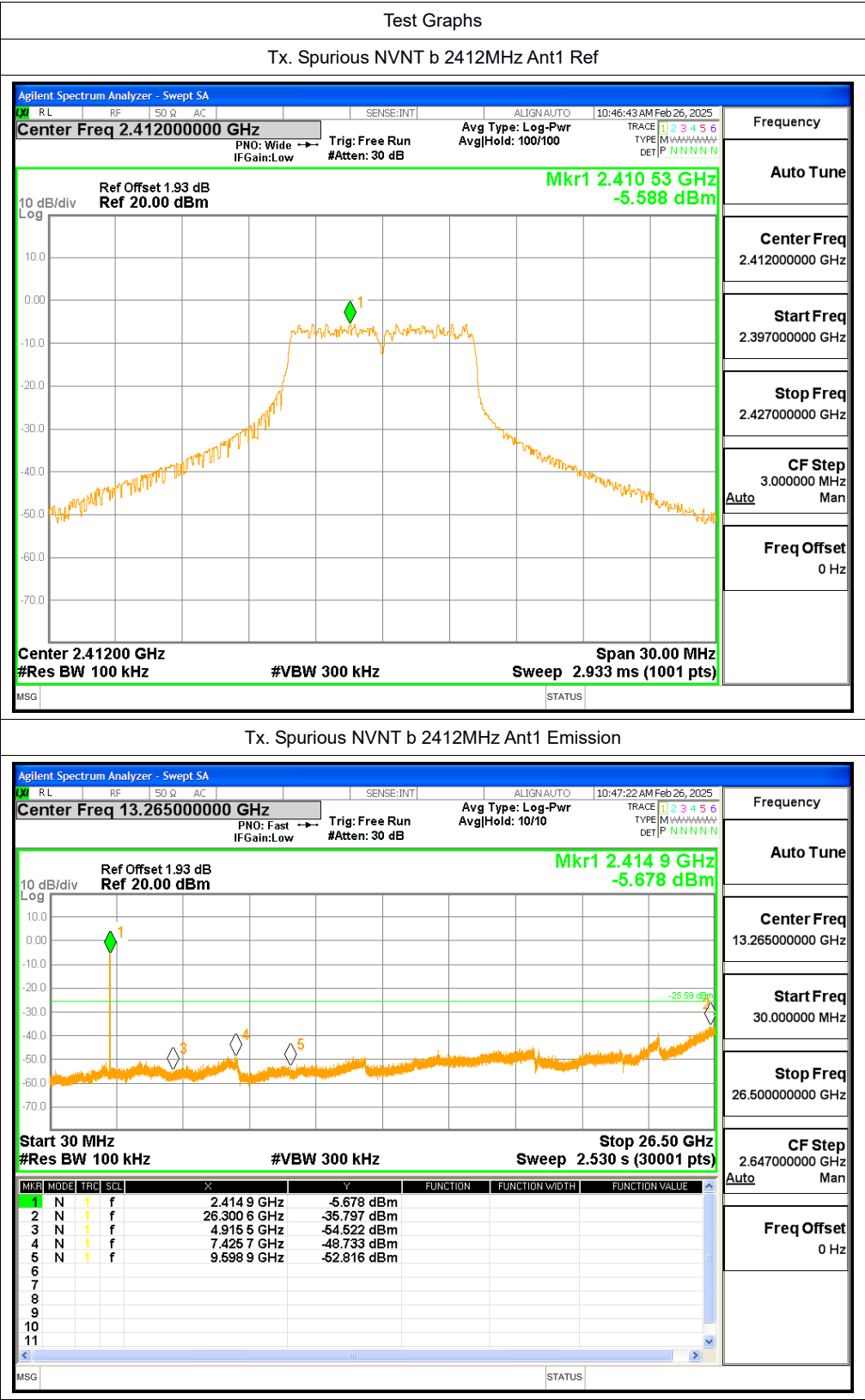


Conducted RF Spurious Emission

10M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-30.2	-20	Pass
		2437		-29.38	-20	Pass
		2462		-29.53	-20	Pass

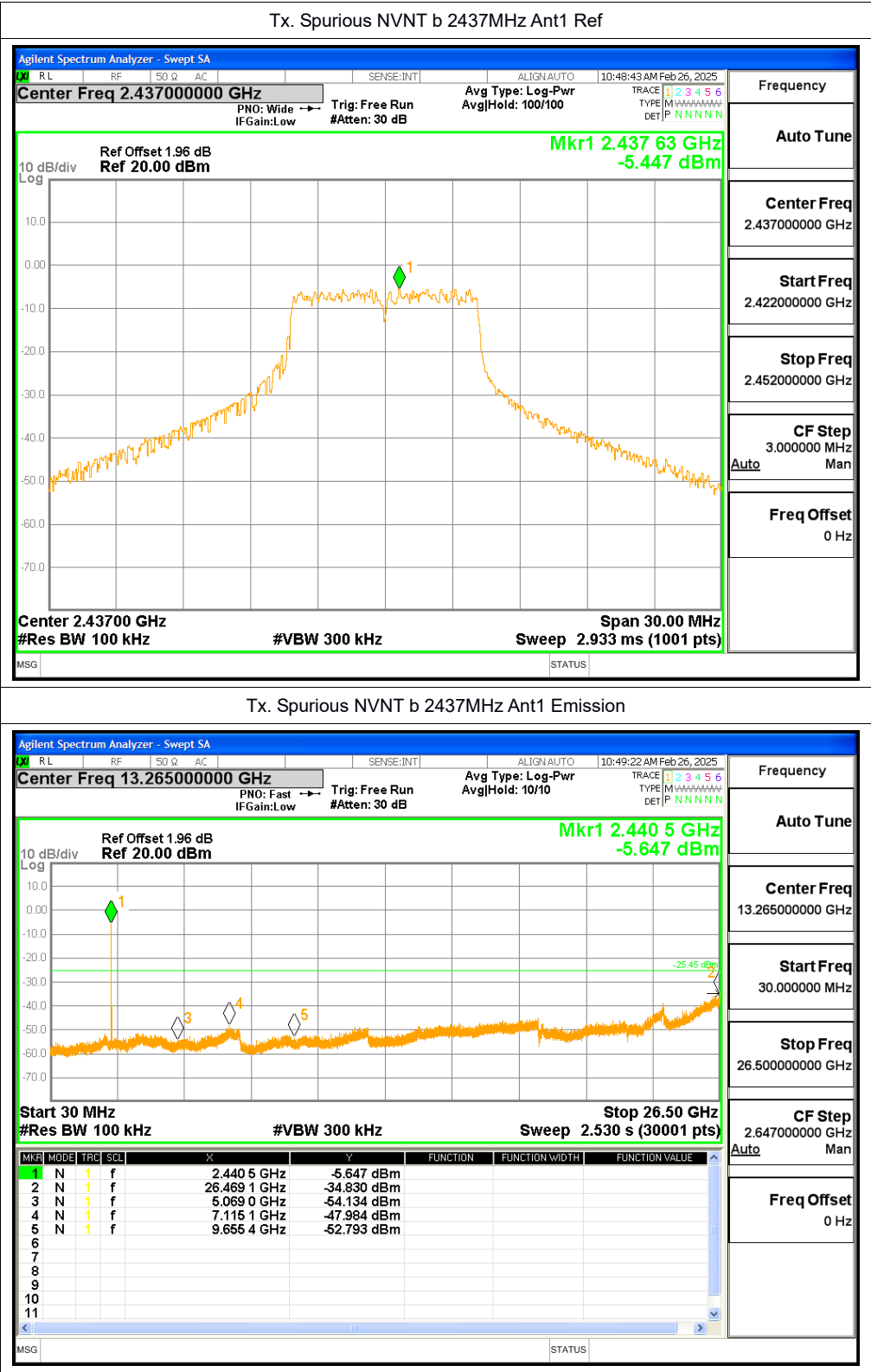
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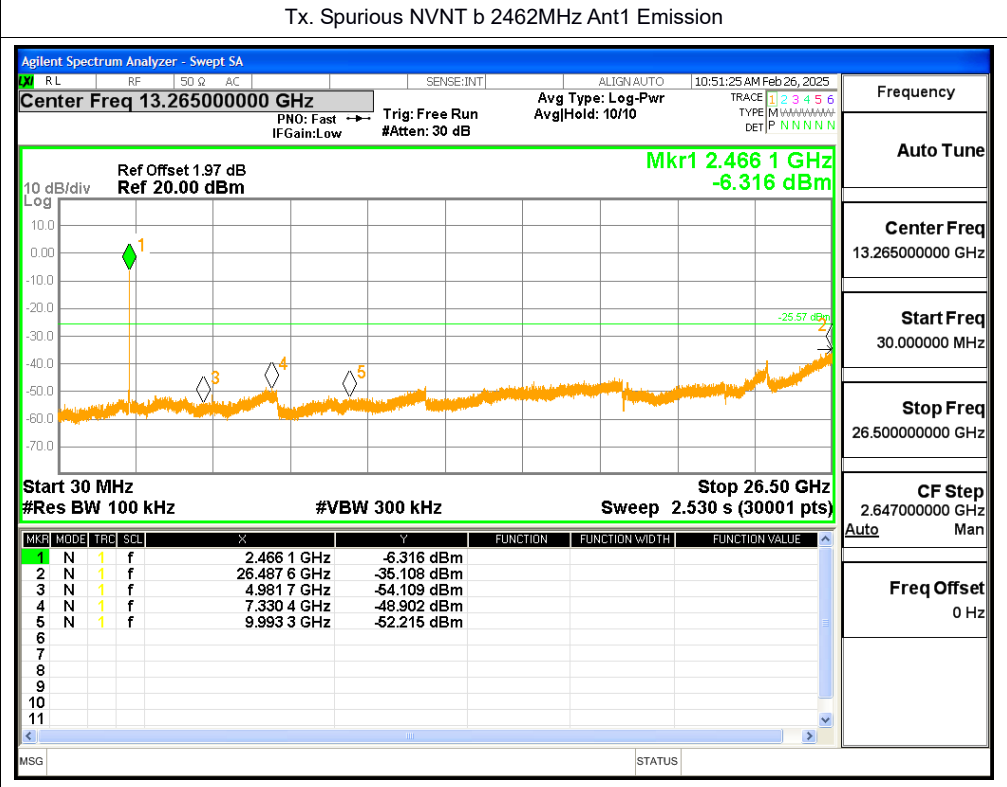
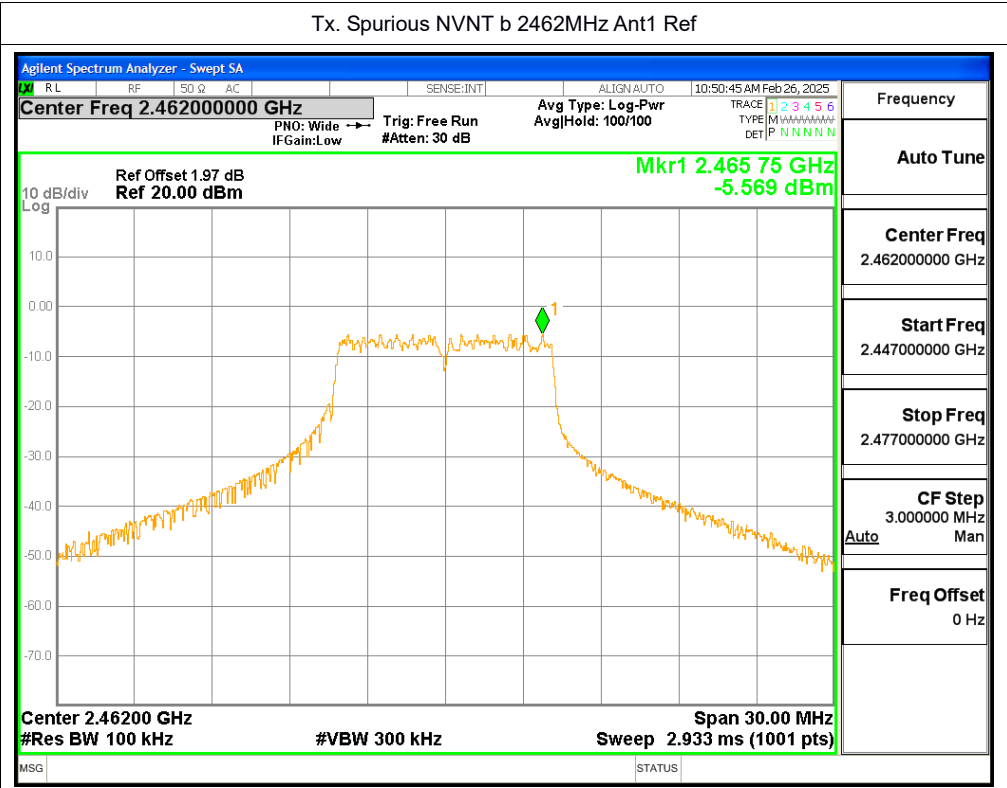
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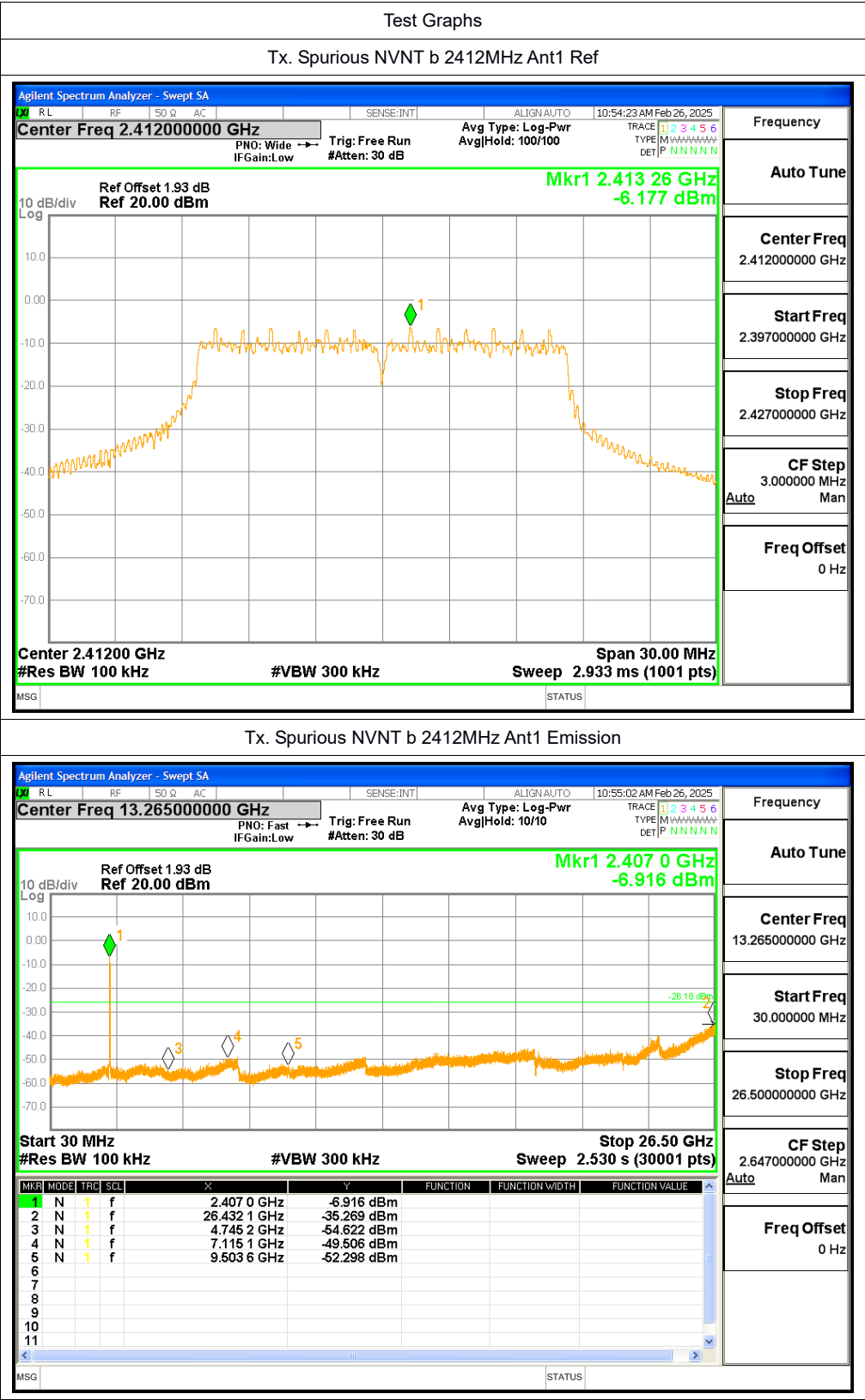
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20M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-29.08	-20	Pass
		2437		-28.33	-20	Pass
		2462		-29.58	-20	Pass

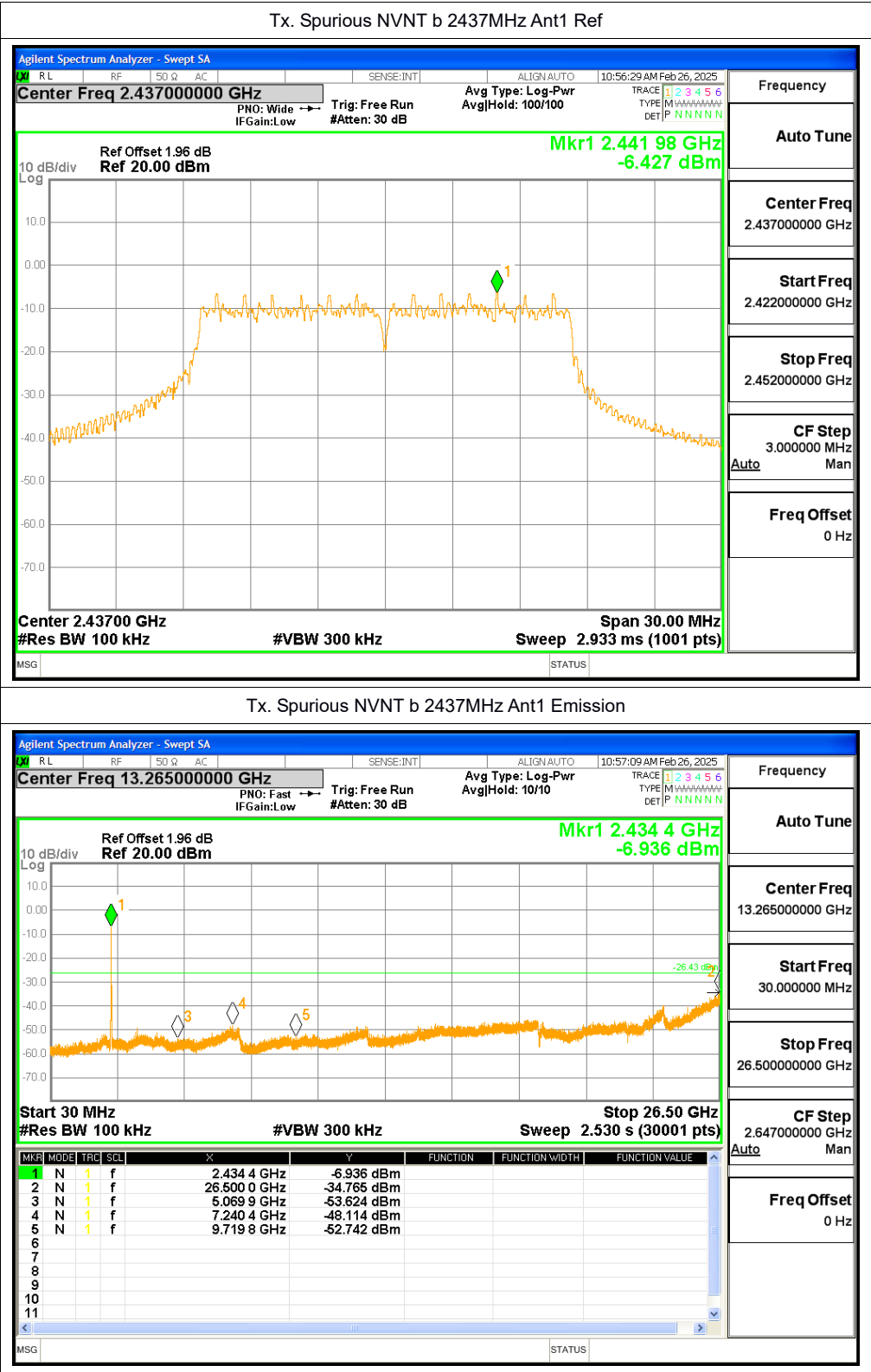
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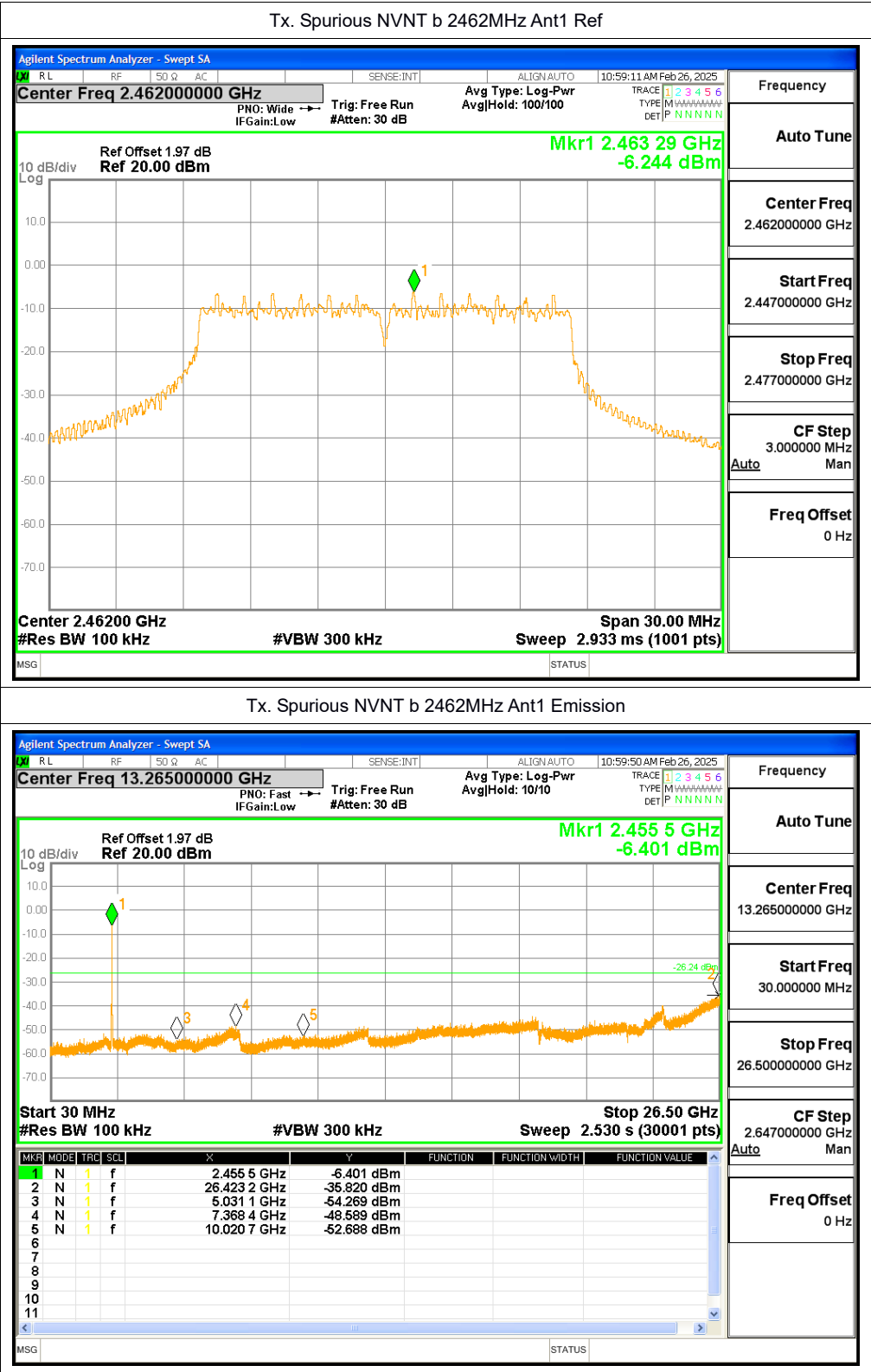


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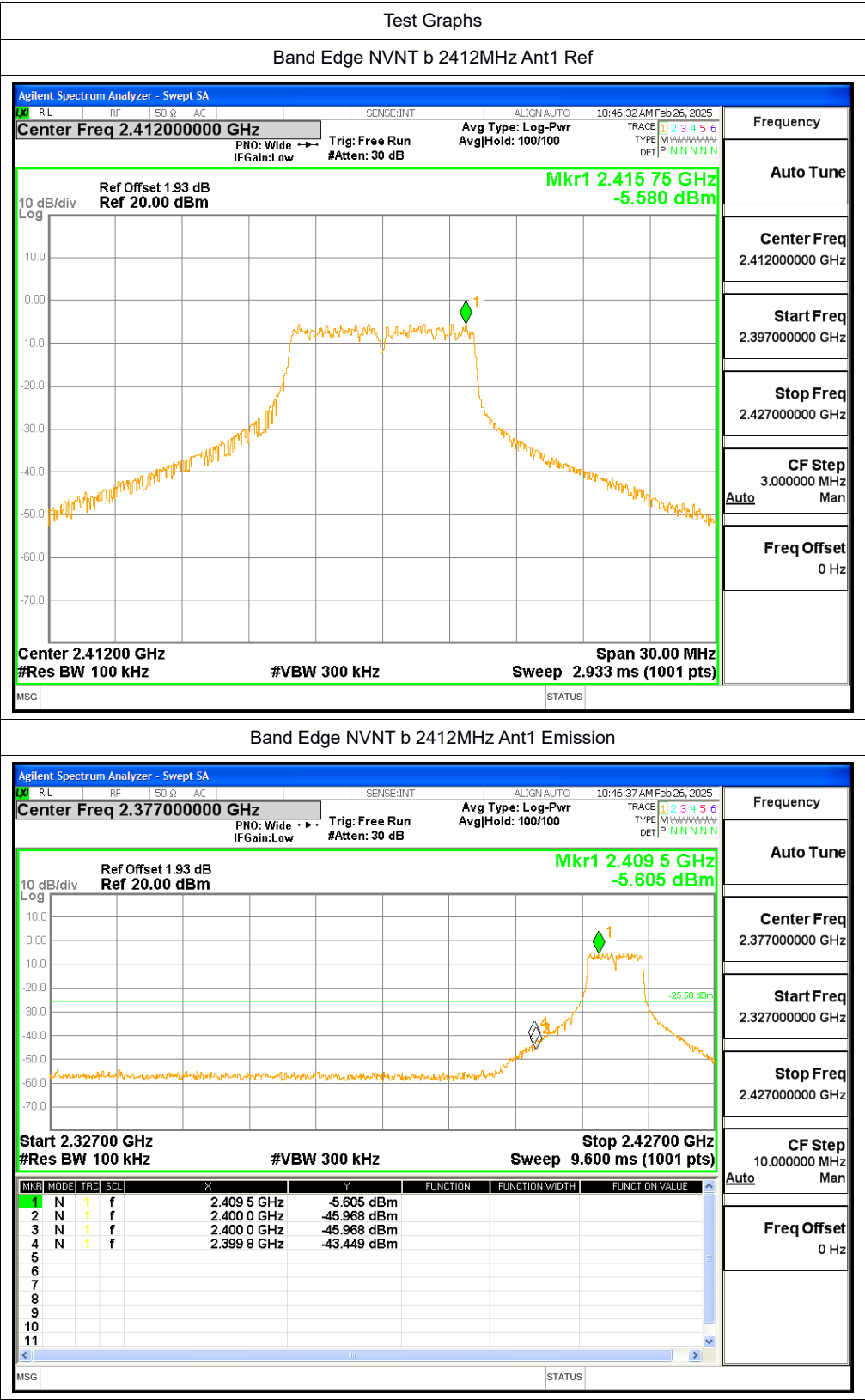


Band Edge

10M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-37.86	-20	Pass
		2462		-48.88	-20	Pass

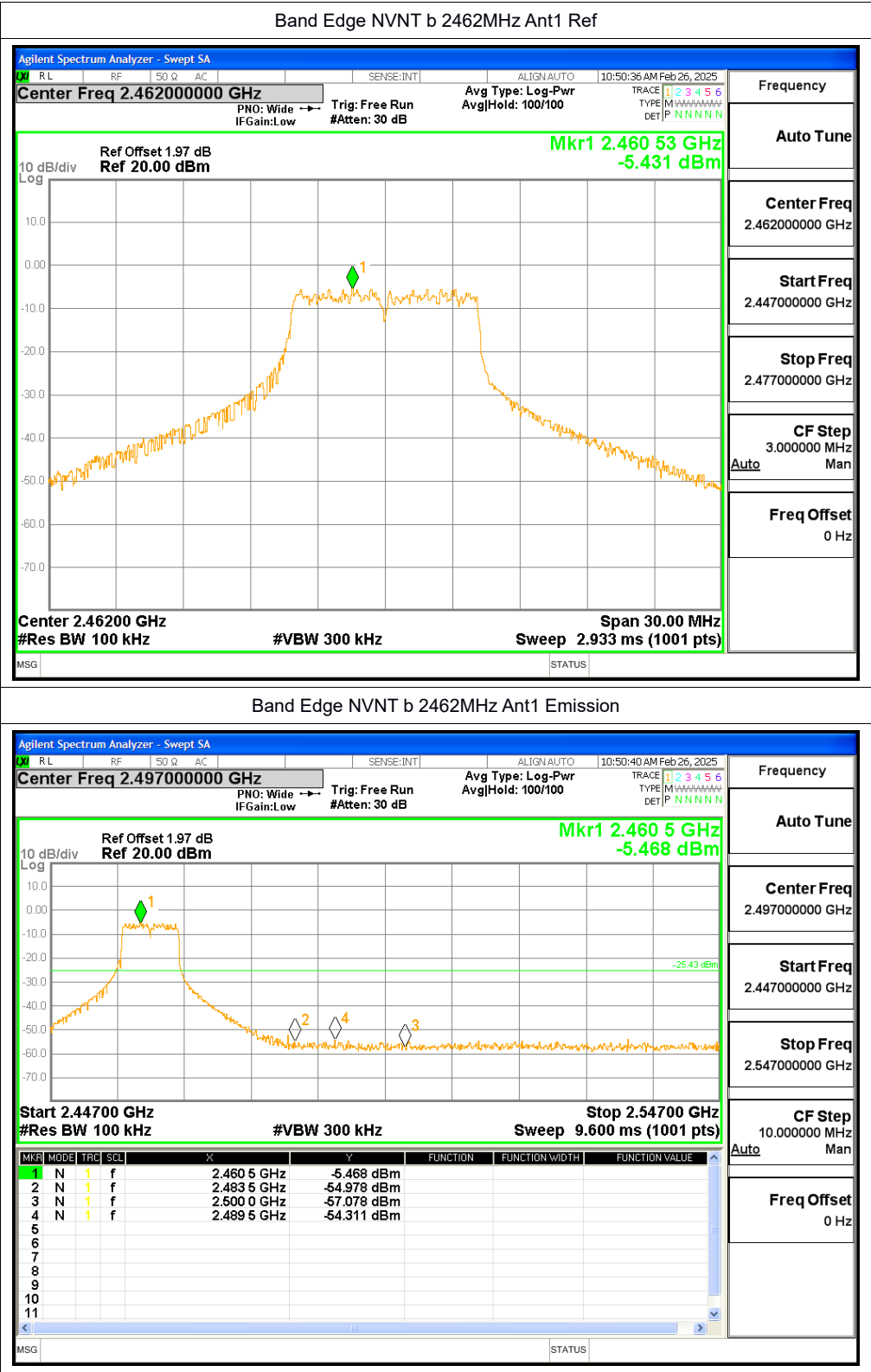
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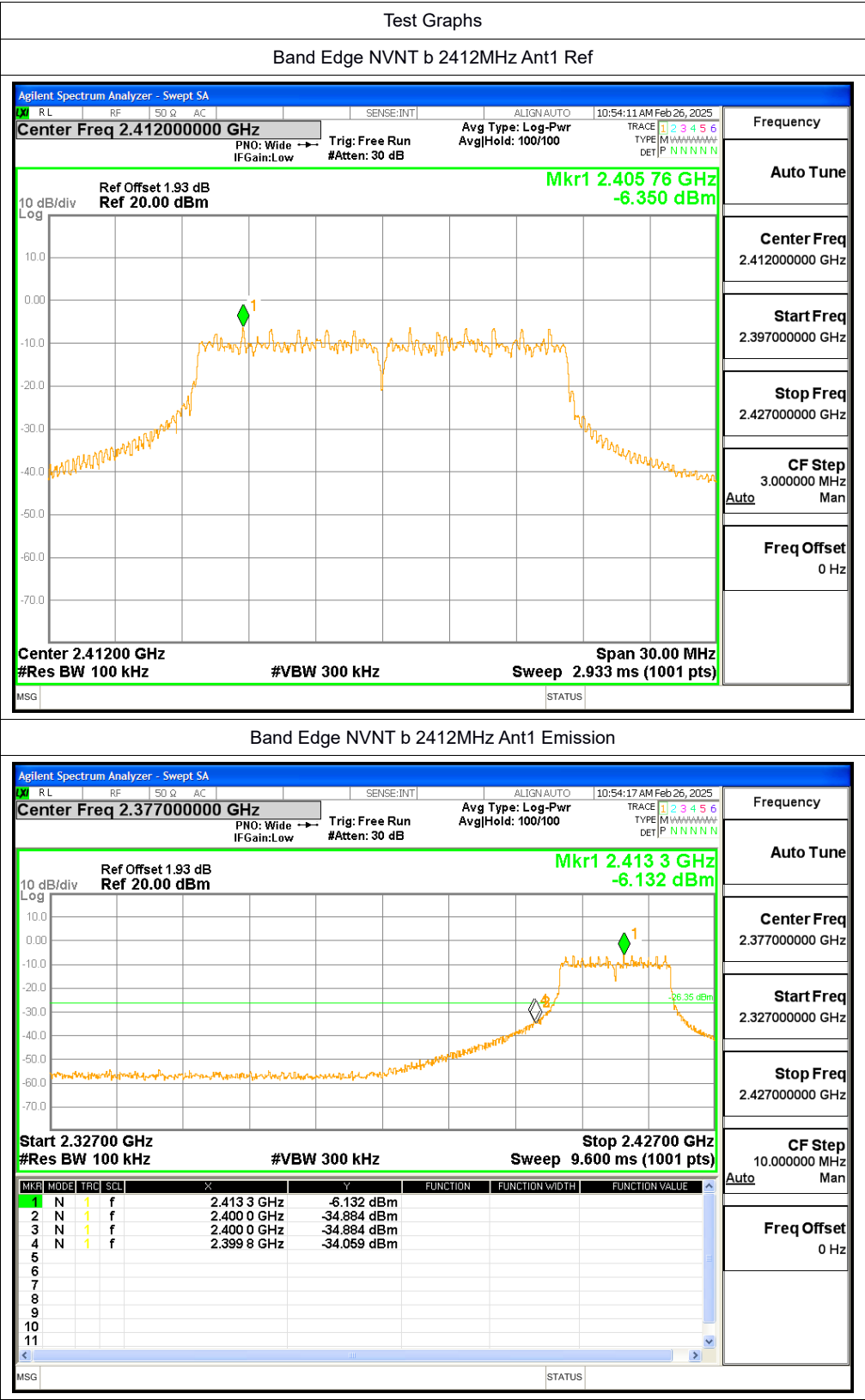
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20M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-27.7	-20	Pass
		2462		-40.73	-20	Pass

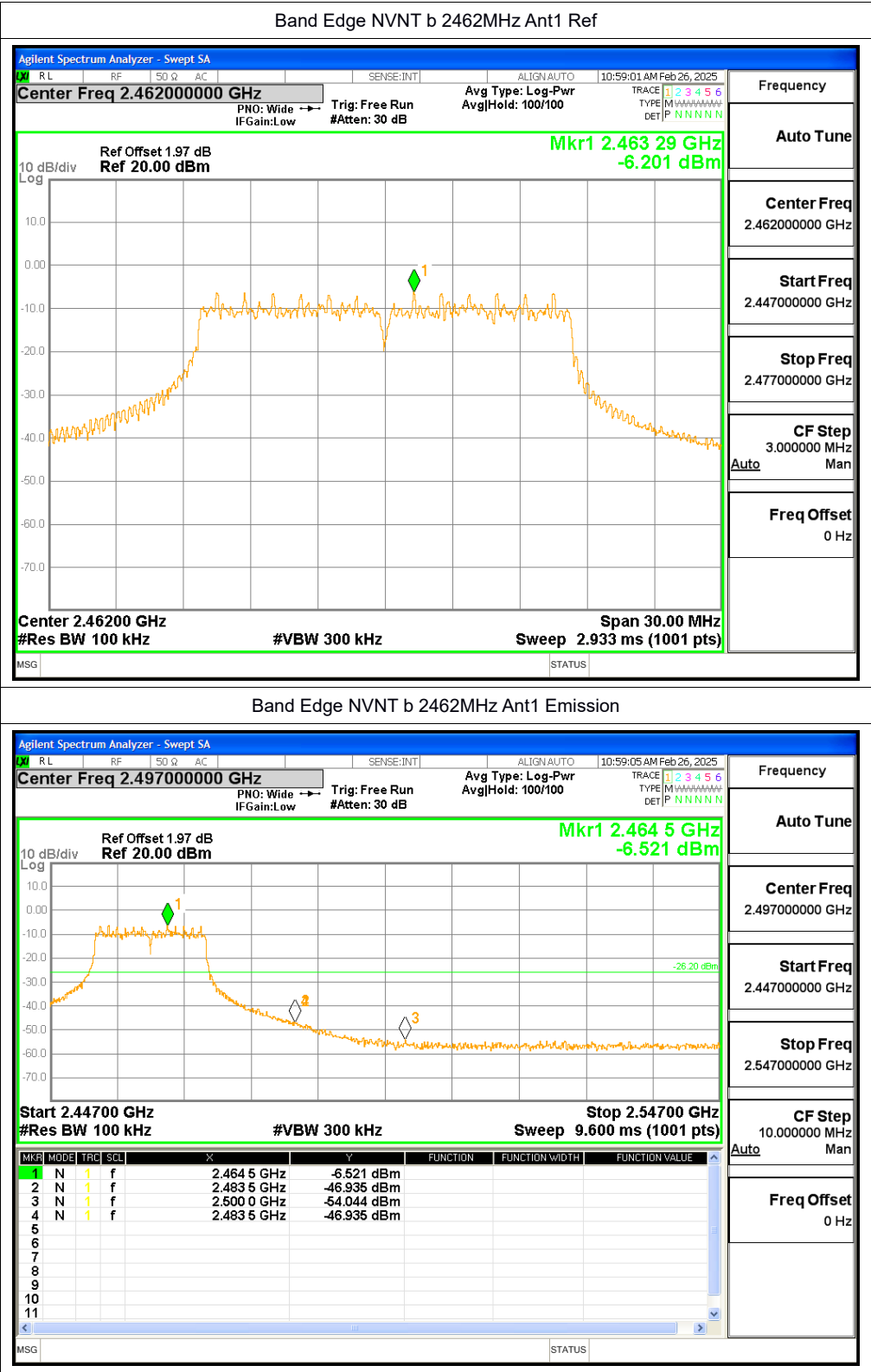
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10M Bandwidth

10.5 Restricted band Measurement

EUT	FP700			Model	3WWDZ-U60B
Mode	Keeping Transmitting			Test Voltage	DC53.2V
Temperature	24 deg. C,			Humidity	56% RH
Test Result:	Pass			Detector	PK
Low Channel, Horizontal					
2390	PK (dBμV/m)	45.19	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	
Low Channel, Vertical					
2390	PK (dBμV/m)	49.58	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	

10.5 Restricted band Measurement

EUT	FP700			Model	3WWDZ-U60B
Mode	Keeping Transmitting			Test Voltage	DC53.2V
Temperature	24 deg. C,			Humidity	56% RH
Test Result:	Pass			Detector	PK
High Channel, Horizontal					
2483.5	PK (dBμV/m)	45.63	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	
High Channel, Vertical					
2483.5	PK (dBμV/m)	50.76	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	

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20M Bandwidth

10.5 Restricted band Measurement

EUT	FP700			Model	3WWDZ-U60B
Mode	Keeping Transmitting			Test Voltage	DC53.2V
Temperature	24 deg. C,			Humidity	56% RH
Test Result:	Pass			Detector	PK
Low Channel, Horizontal					
2390	PK (dBμV/m)	44.89	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	
Low Channel Vertical					
2390	PK (dBμV/m)	48.67	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	

10.5 Restricted band Measurement

EUT	FP700		Model	3WWDZ-U60B
Mode	Keeping Transmitting		Test Voltage	DC53.2V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
High Channel, Horizontal				
2483.5	PK (dBμV/m)	45.12	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
High Channel, Vertical				
2483.5	PK (dBμV/m)	50.30	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

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12.0 Antenna Requirement

12.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

12.2 Antenna Connected construction

Two Fixed Dipole antennas, the gain is 3.30dBi maximum for each one (Get from the antenna test report)

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13.0 FCC ID Label

FCC ID: 2BCSK3WWDZ-U60B

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



Label Location

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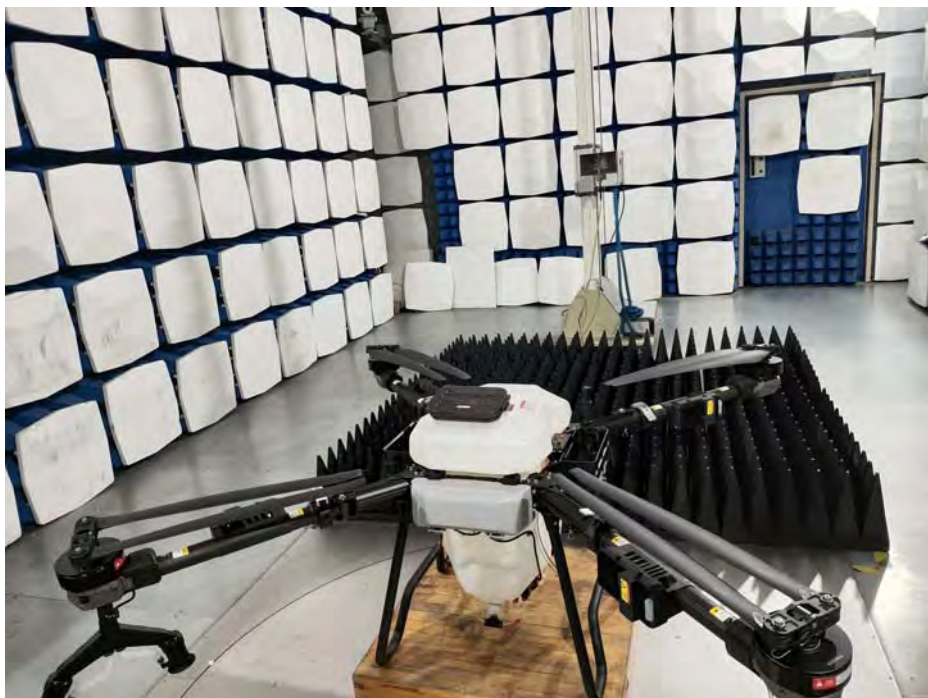


14.0 Photo of testing

Conducted Emission Test Setup:

N/A

Radiated Emission Test Setup:



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Photographs – EUT

Outside View



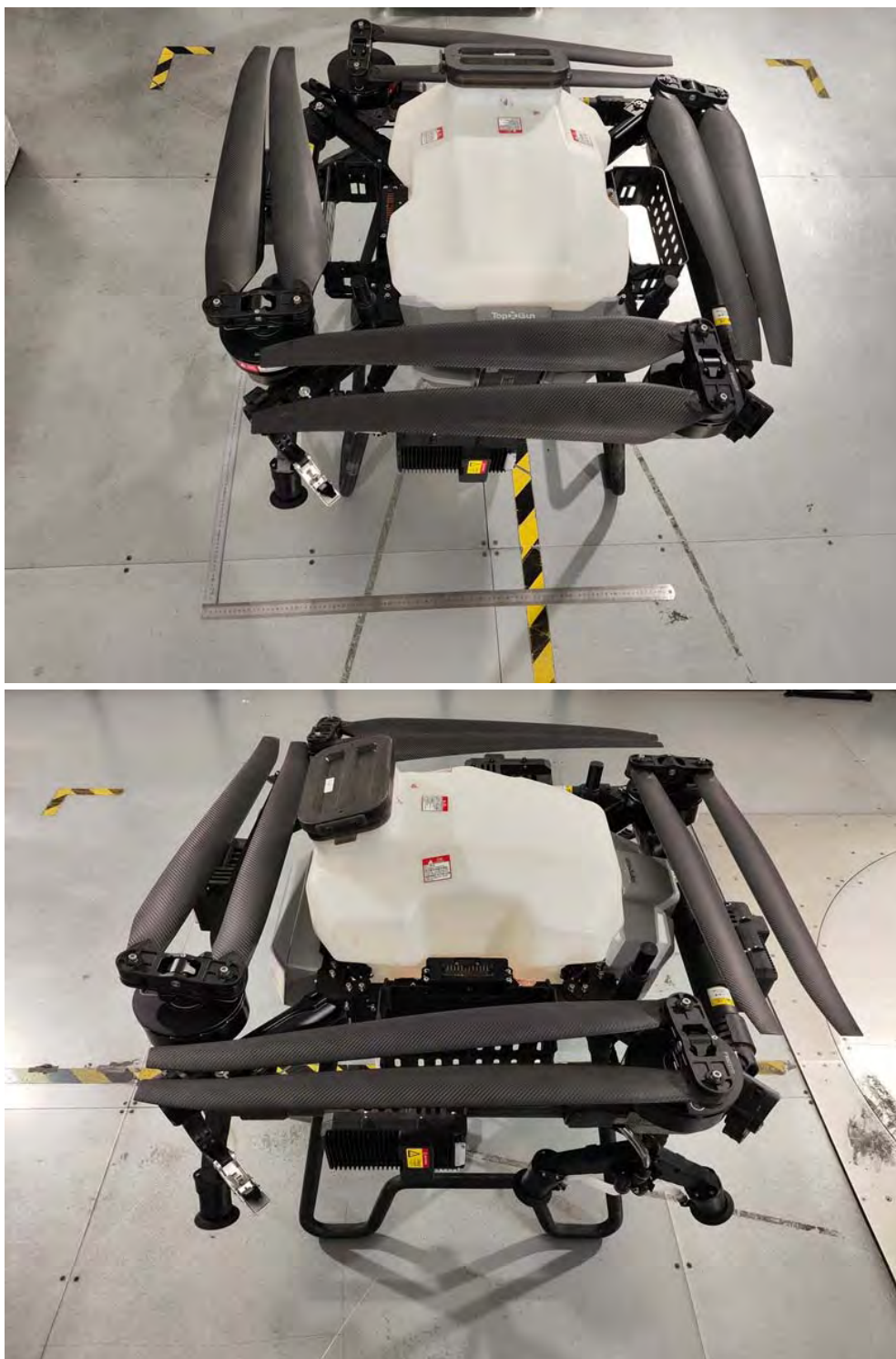
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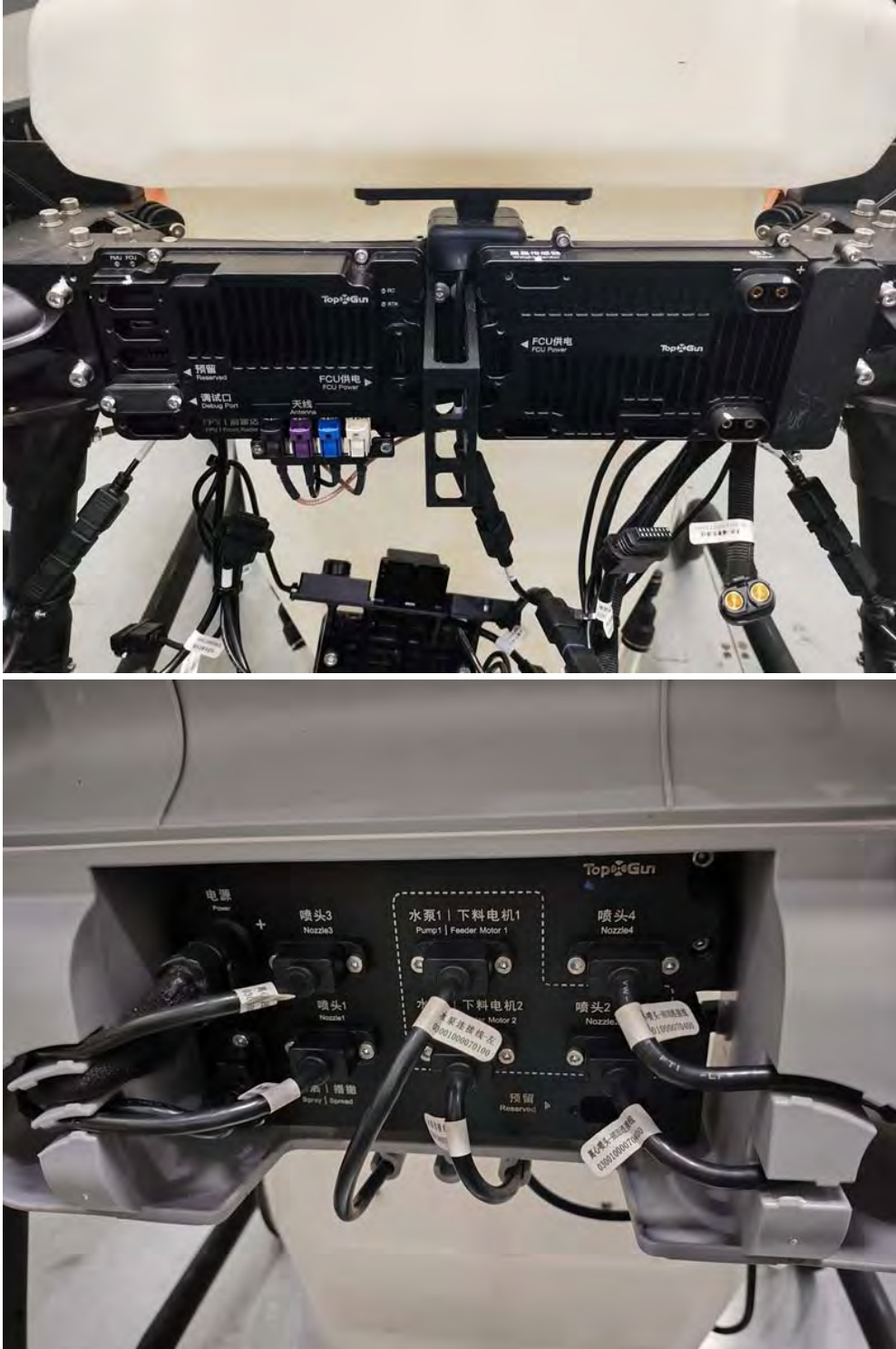
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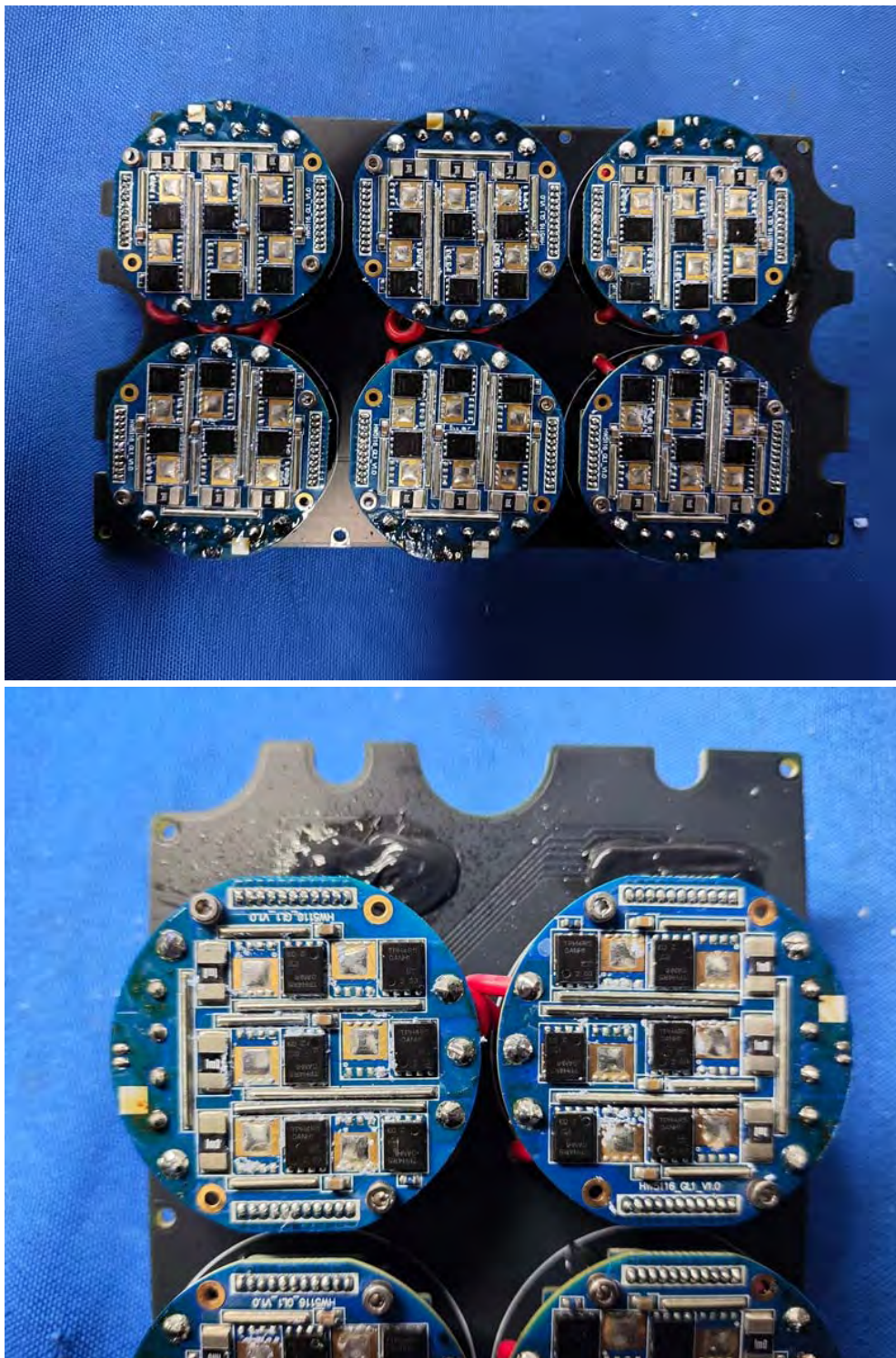
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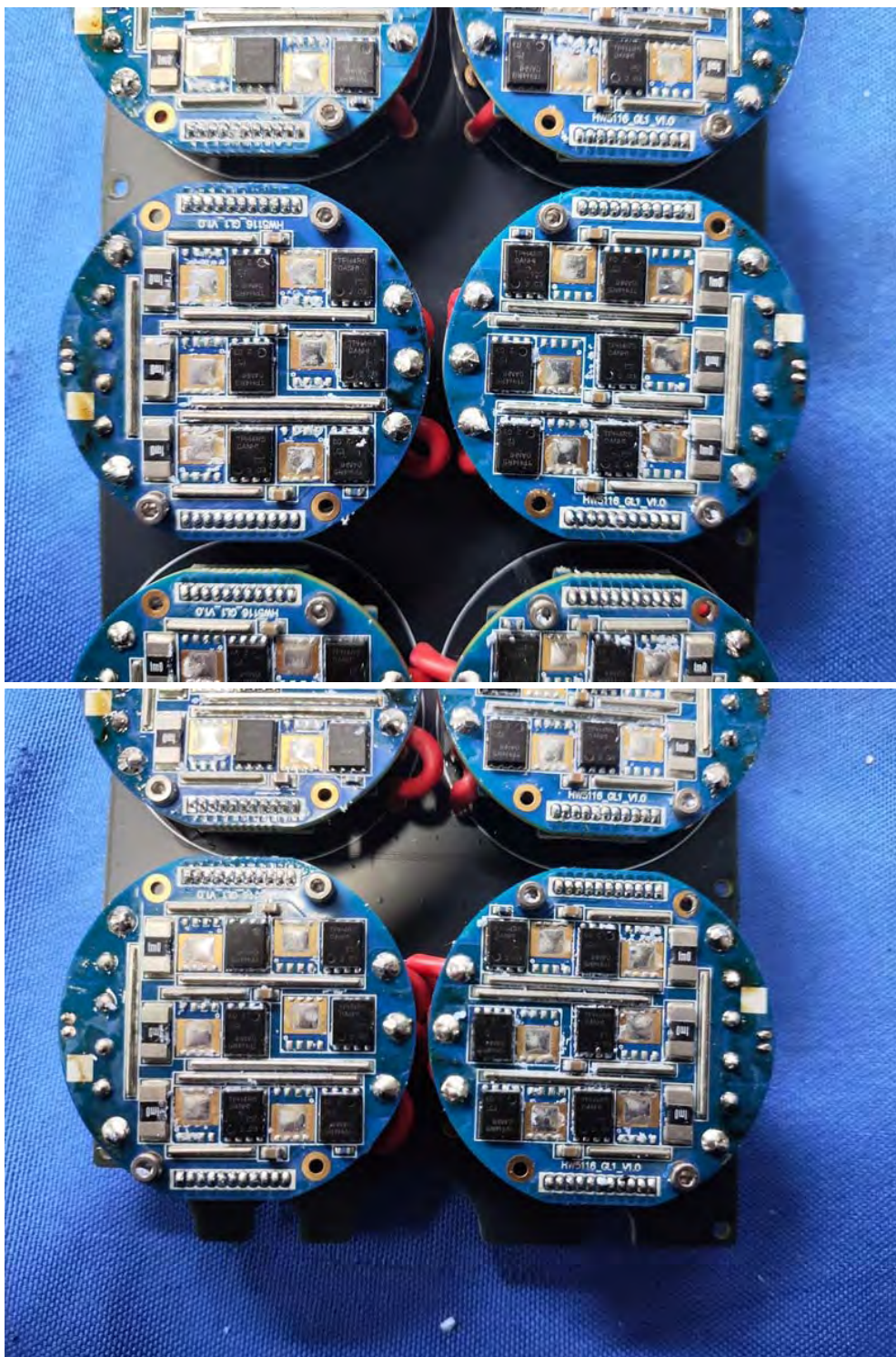
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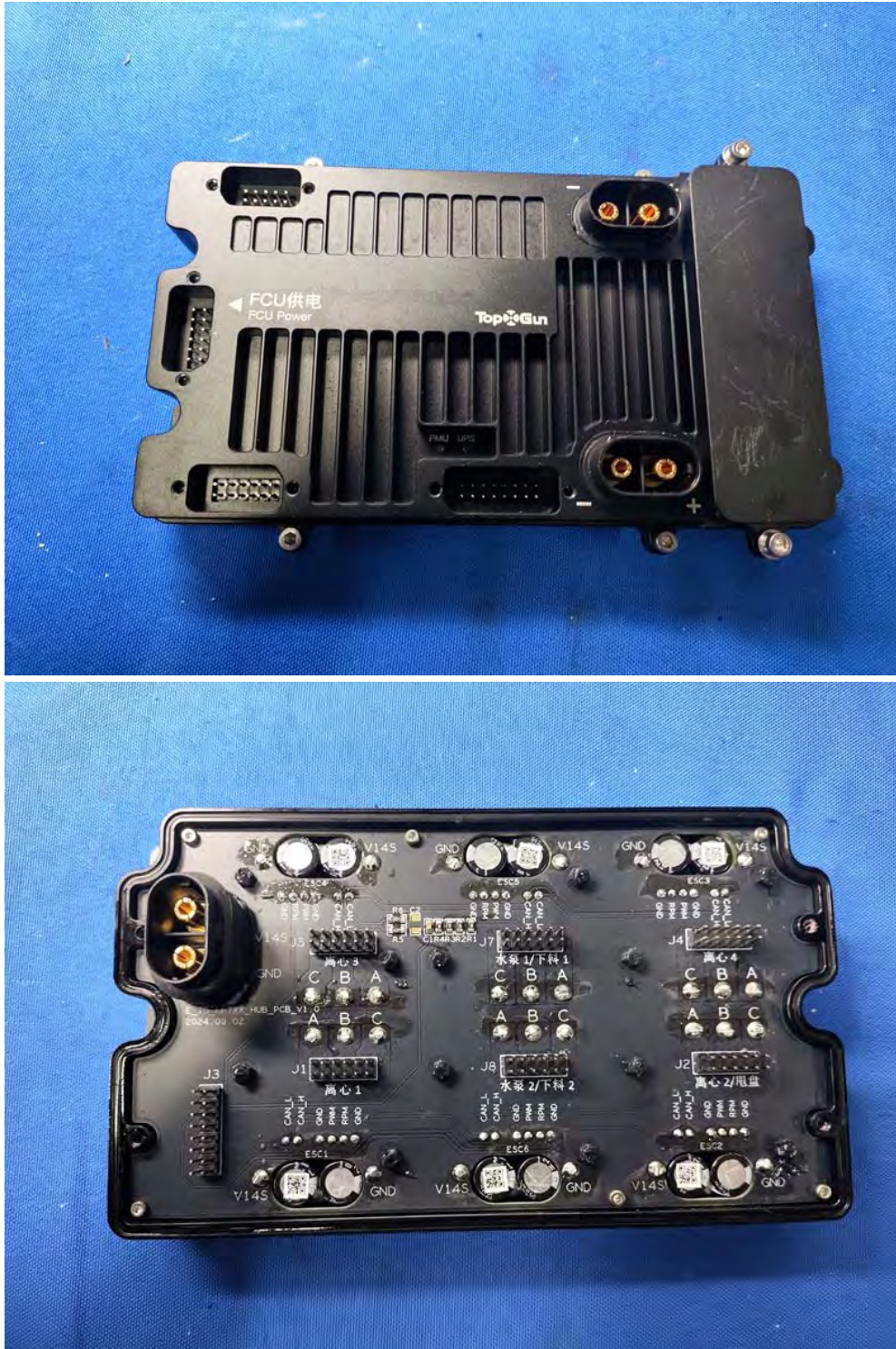
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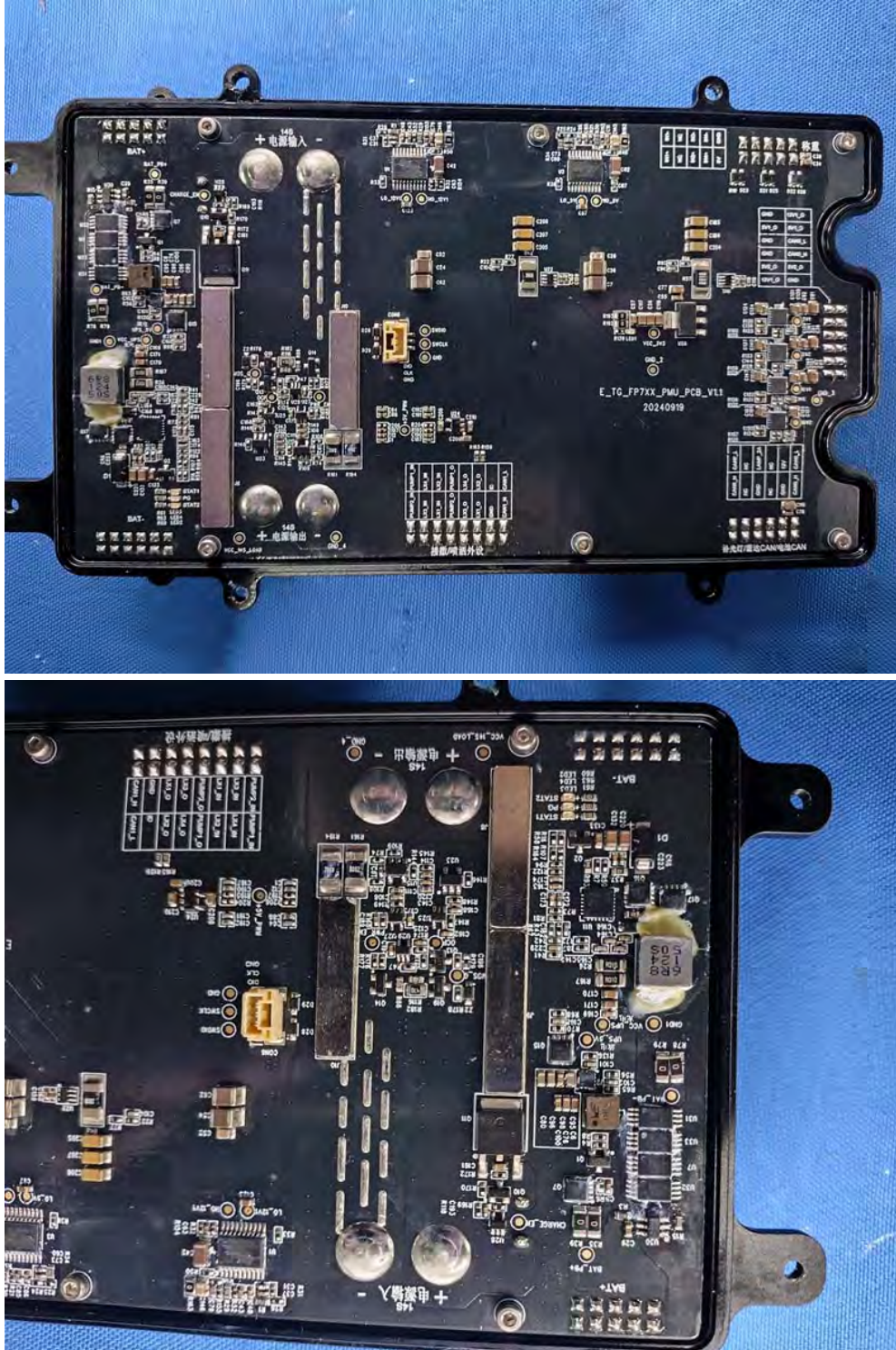
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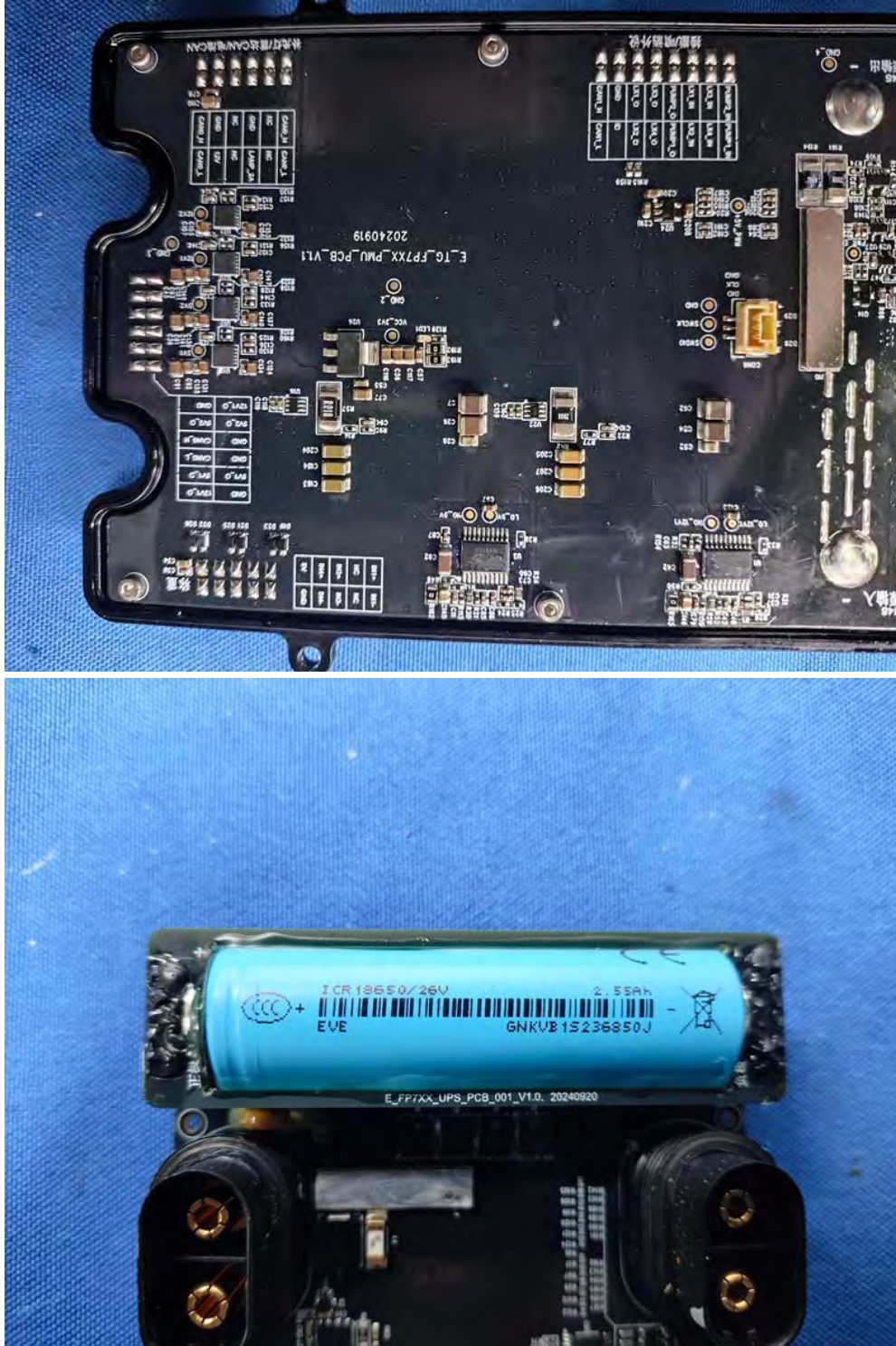
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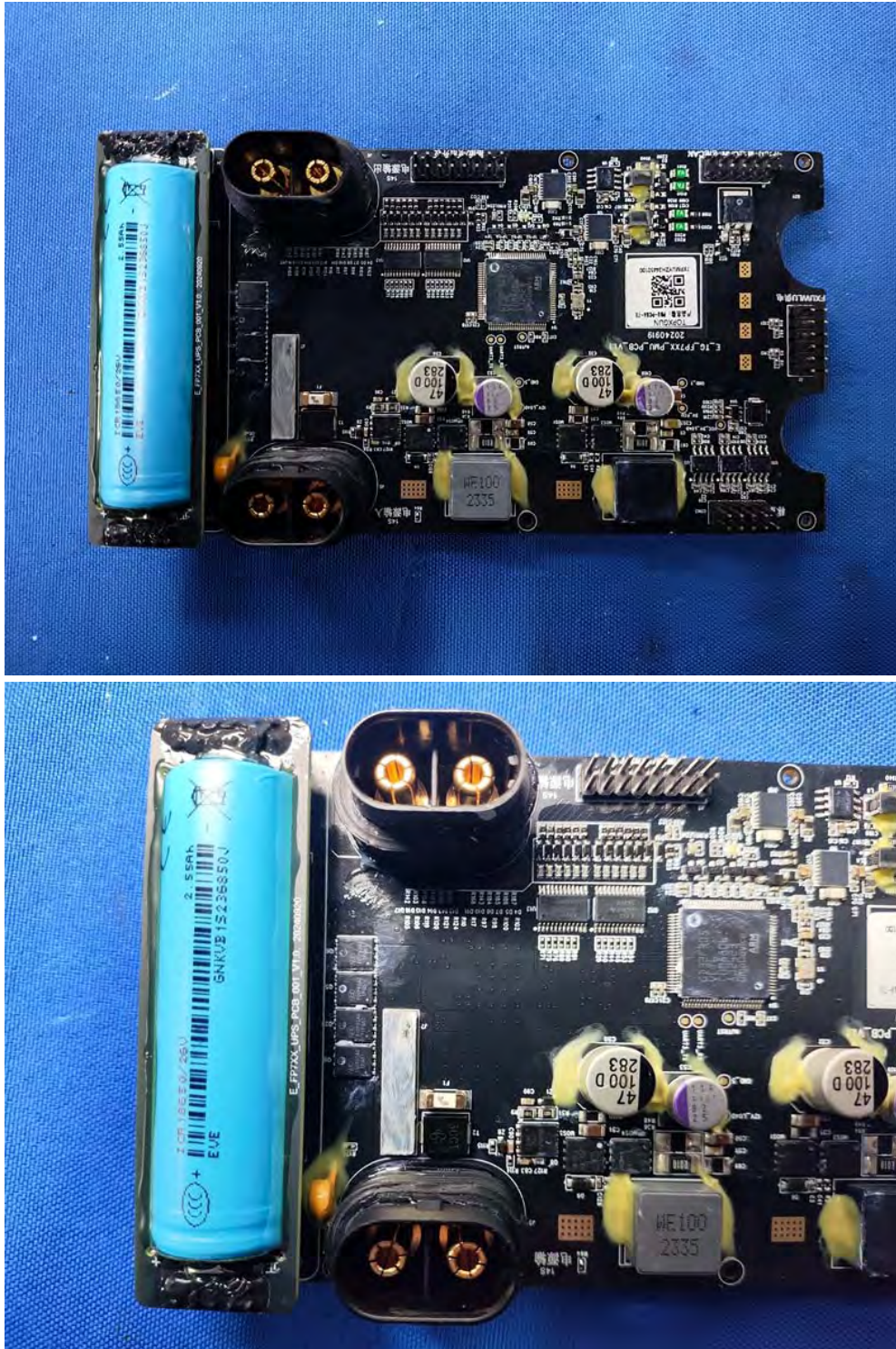
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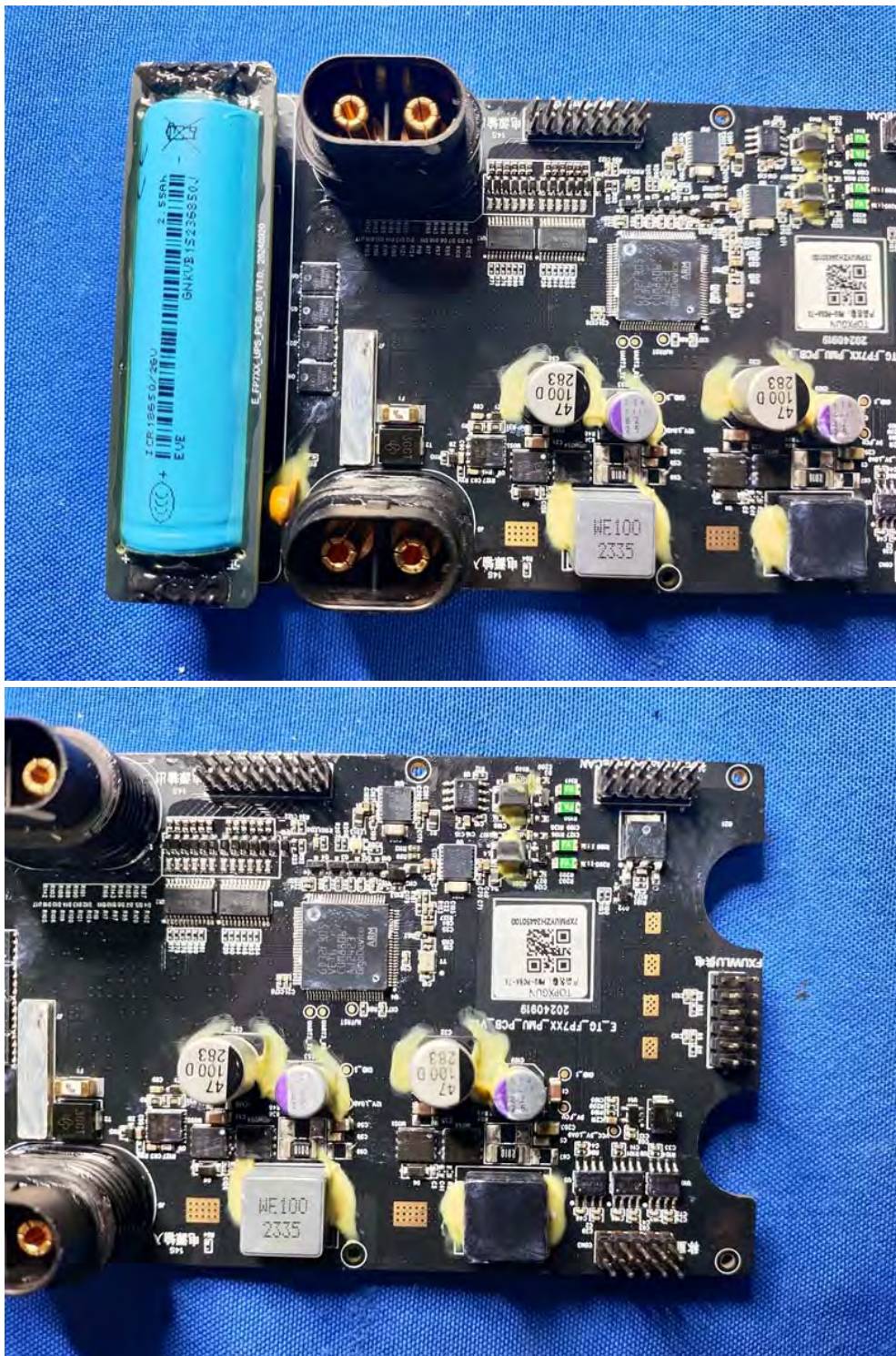
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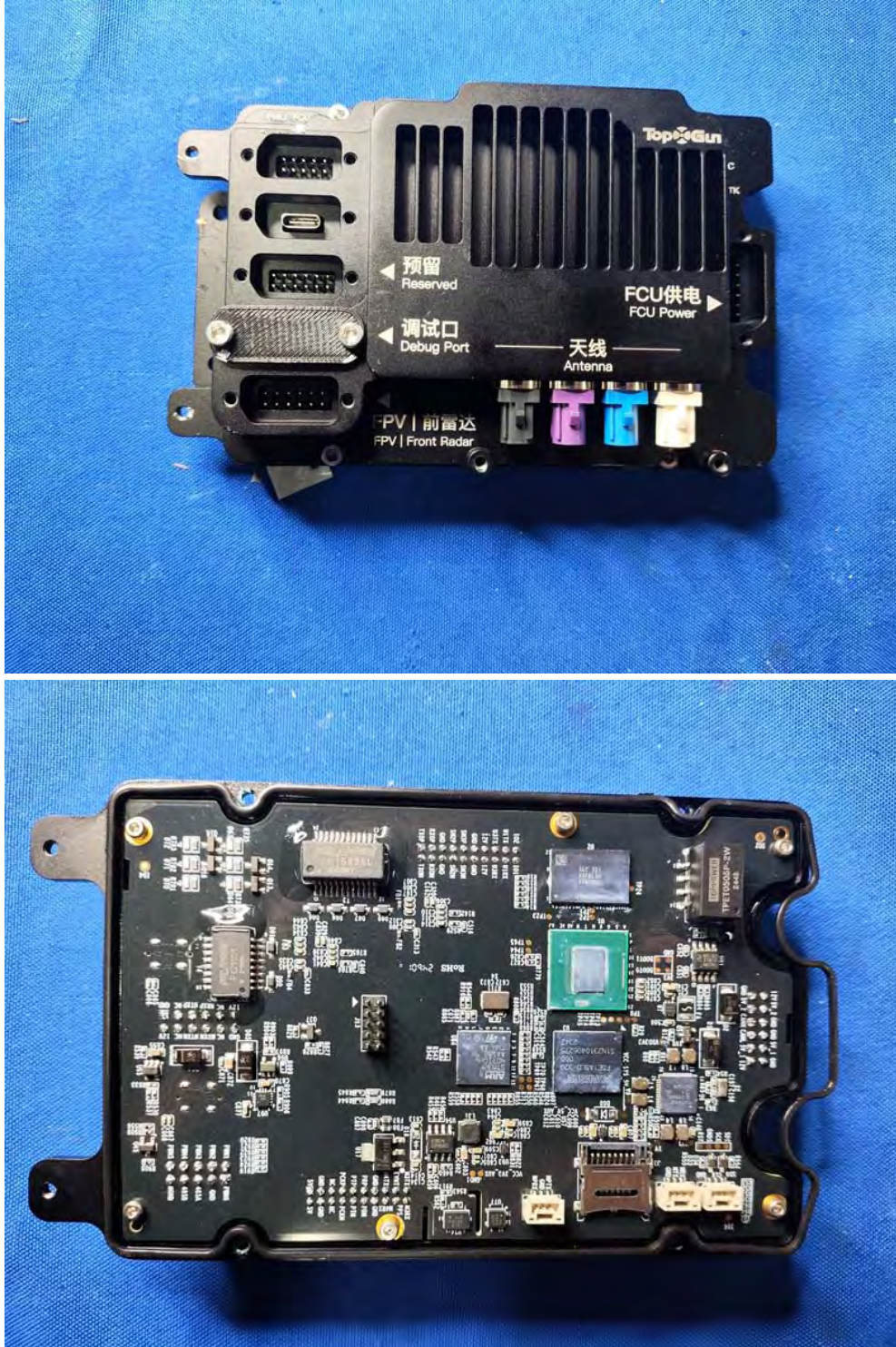
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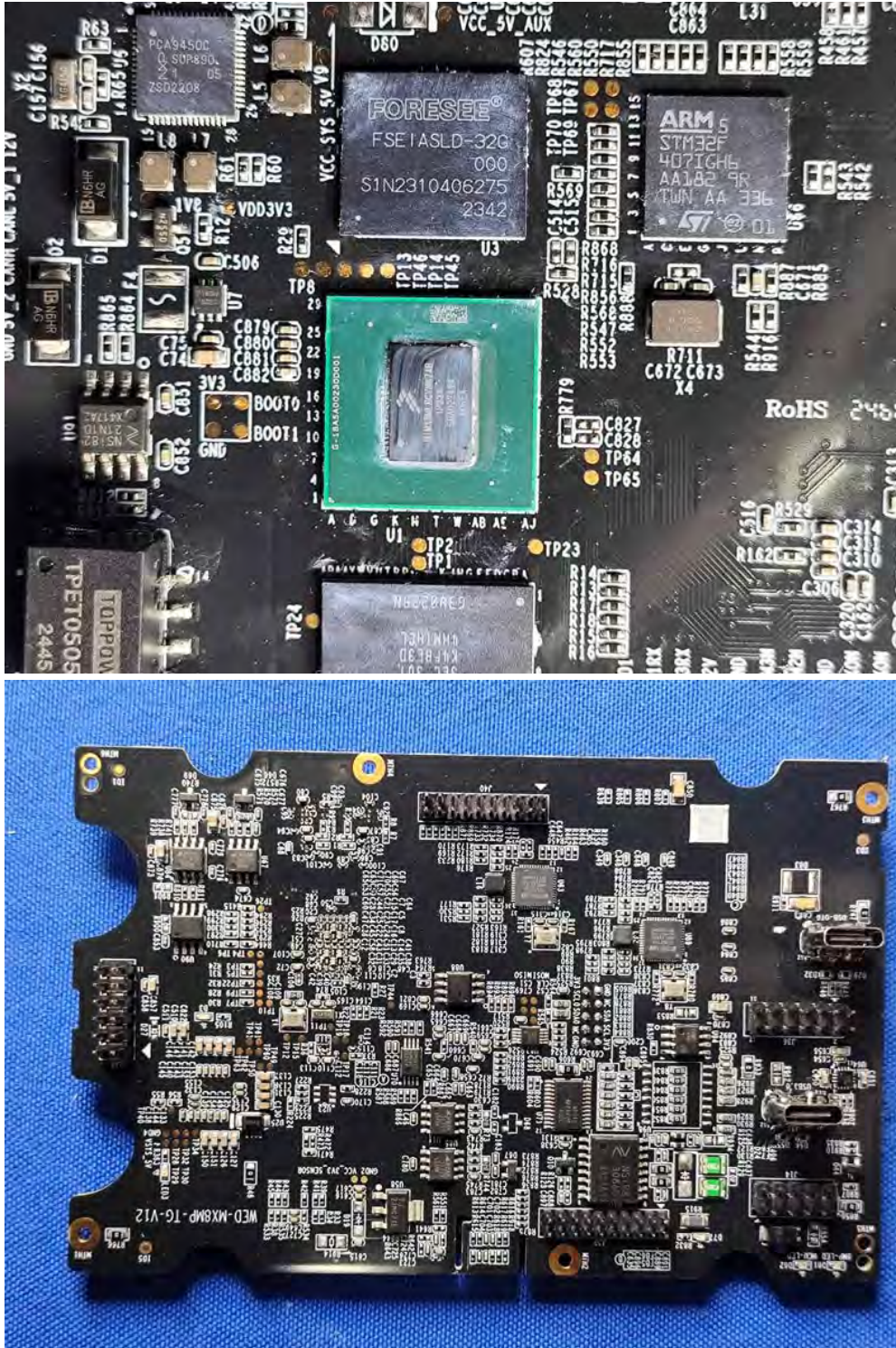
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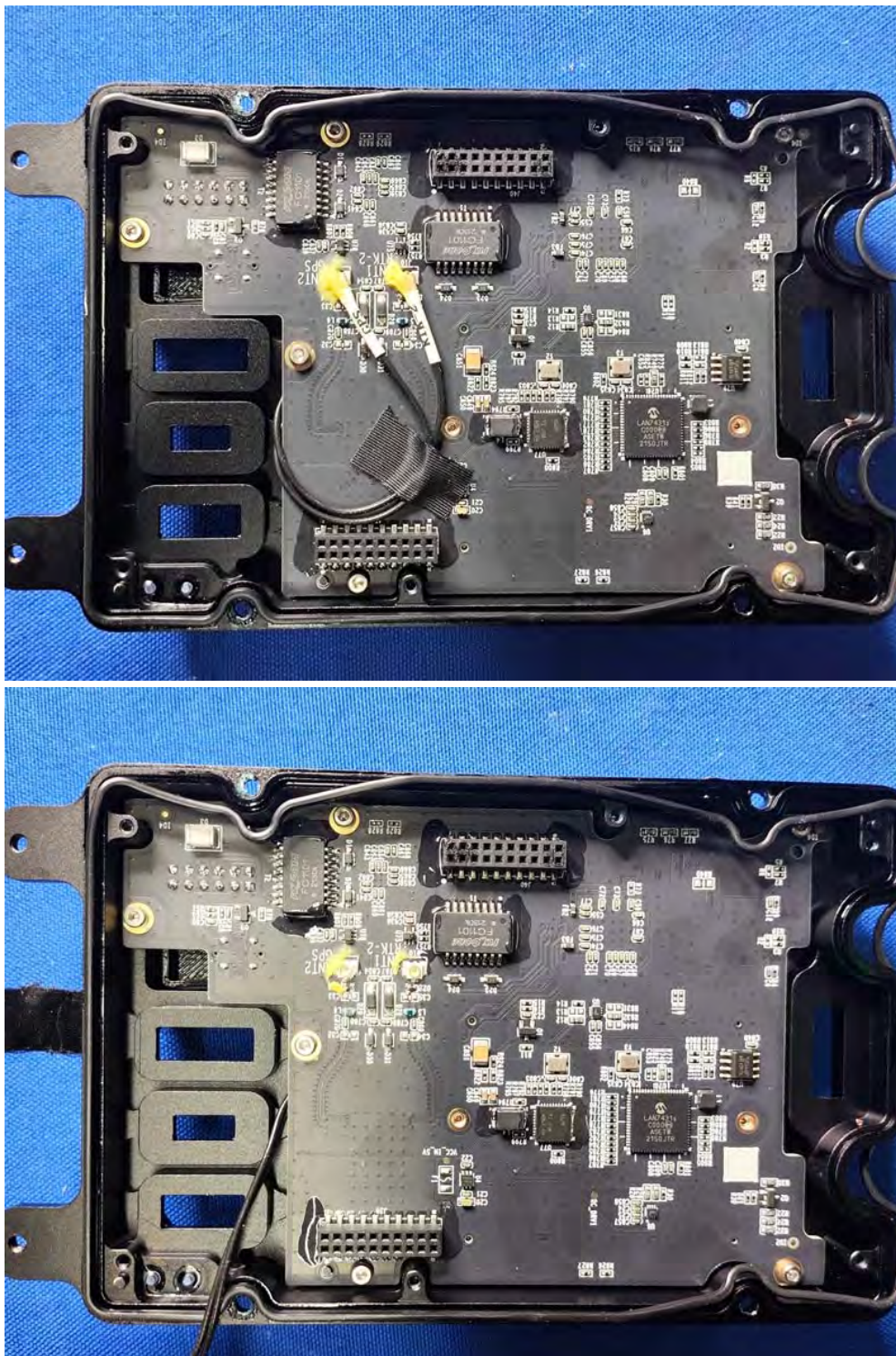
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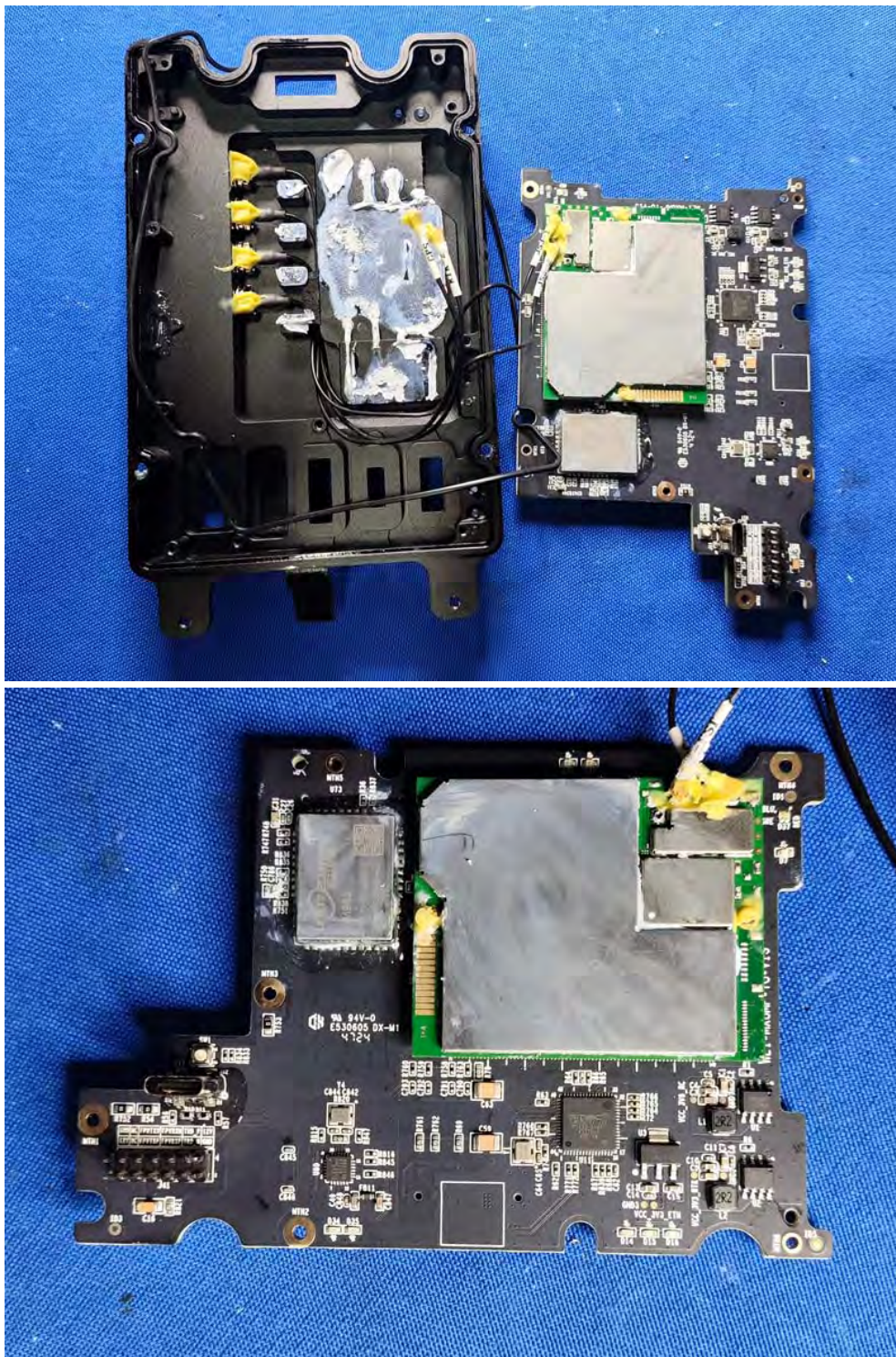
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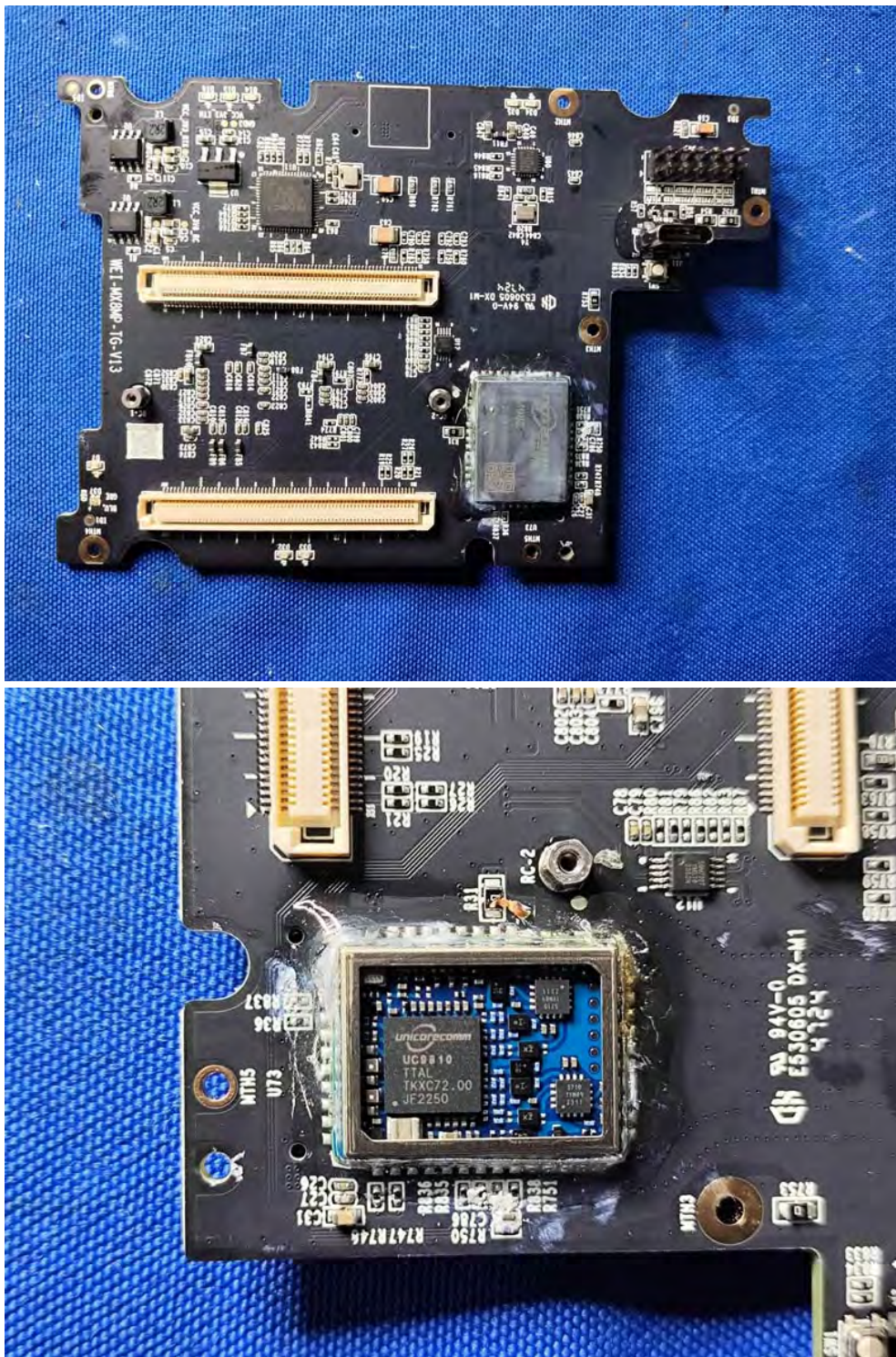
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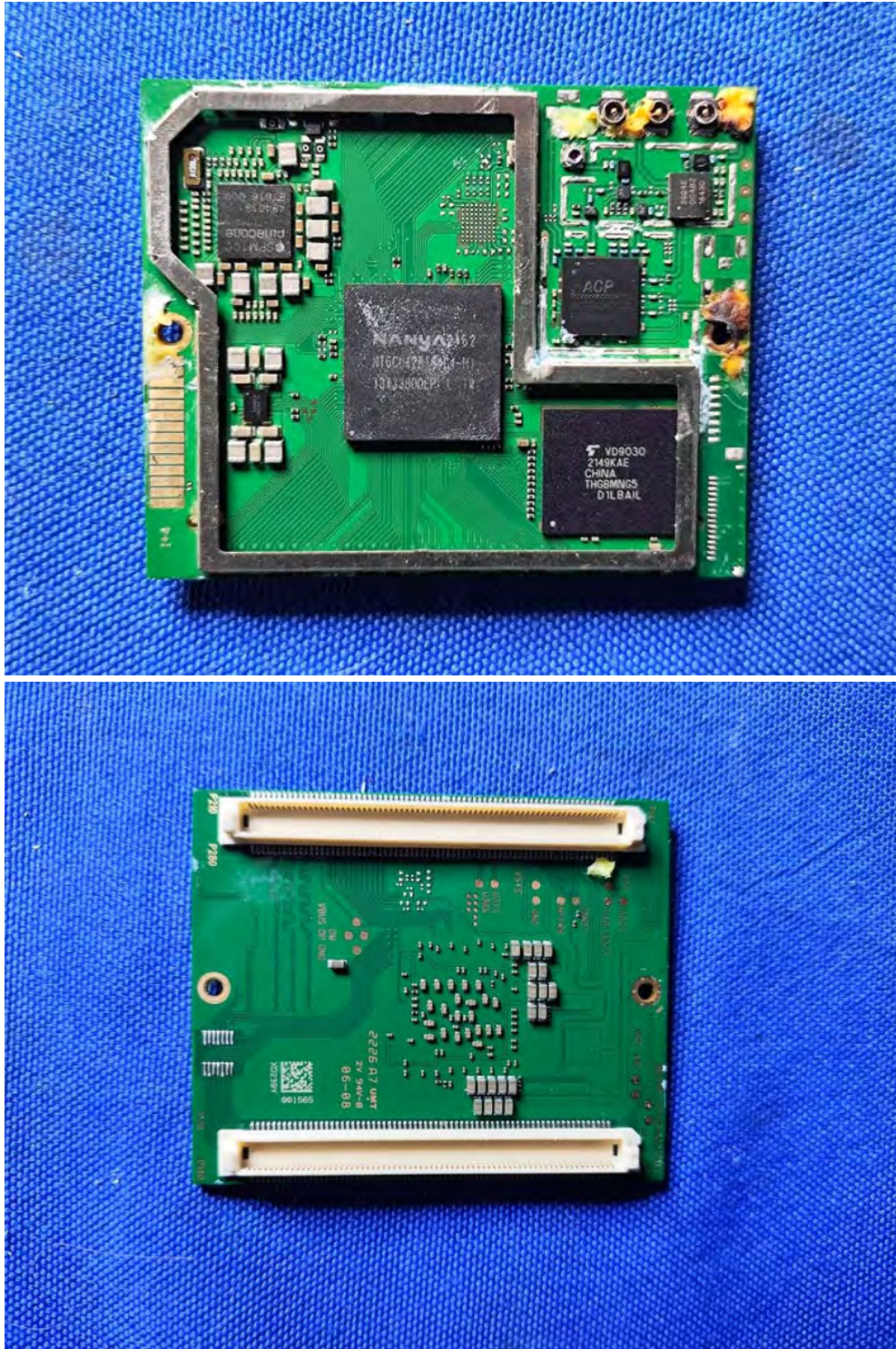
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End of the report

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