TEST REPORT

Report No.: TWN2505548-02E

Applicant: Heilongjiang Huida Technology Co., Ltd.

Product: HD525 Agricultural Drone

Model No.: 3WWDZ-U25A

Trademark: VECTOR AGR

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

Terry Tang

Manager

Dated: May 20, 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

Site Listed with Federal Communications commission (FCC)

Registration Number:744189

For 3m Anechoic Chamber

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A

For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Heilongjiang Huida Technology Co., Ltd.

Address: Building 1, Science and Technology Innovation Headquarters, Shenzhen (Harbin) Industrial Park, No. 288 Zhigu Street, Songbei District, Harbin, China

1.3 Description of EUT

Product:	HD525 Agricultural Drone
Manufacturer:	Heilongjiang Huida Technology Co., Ltd.
Address:	Building 1, Science and Technology Innovation Headquarters, Shenzhen (Harbin) Industrial Park, No. 288 Zhigu Street, Songbei District, Harbin, China
Trademark:	VECTOR AGR
Model Number:	3WWDZ-U25A
Additional Model Number:	N/A
Hardware Version:	HC402_RK3568PWR_P2
Software Version:	3.24.1.0
Serial No.:	53080012
Battery:	DC67.5V, 20000mAh Li-ion battery
Type of Modulation	IEEE 802.11b: DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20, HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)
Frequency range	IEEE 802.11b/g/n (HT20): 2412-2462MHz; IEEE 802.11n HT40: 2422-2452MHz
Channel Spacing	5MHz for IEEE 802.11b/g/n (HT20, HT40)
Air Data Rate	IEEE 802.11b: 11, 5.5, 2, 1 Mbps

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	IEEE 802.11g: 54, 48,36, 24, 18, 12, 9, 6 Mbps
	IEEE 802.11n HT20/HT40: mcs0-mcs7
Frequency Selection	By software
Channel Number	IEEE 802.11b/g/n (HT20): 11 Channels;
	IEEE 802.11n (HT40): 7 Channels;
Antenna:	PCB Antenna used. The gain of the antennas is 3.46dBi maximum. (Get from the antenna specification provided the applicant)

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

2025-05-08 to 2025-05-20

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%

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 _____

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. DESCRIPTION OF TEST MODES

IEEE 802.11b, 802.11g, 802.11n (HT20) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

IEEE 802.11b mode: 1Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 6Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n (HT20) mode: mcs0 (worst case) were chosen for full testing

IEEE 802.11n (HT40) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2422
Middle	2437
High	2452

IEEE 802.11n (HT40) mode: mcs0 data rate (worst case) were chosen for full testing

Note: during the test, the duty cycle was set up to >98%.

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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, Paragraph15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph15.207	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 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	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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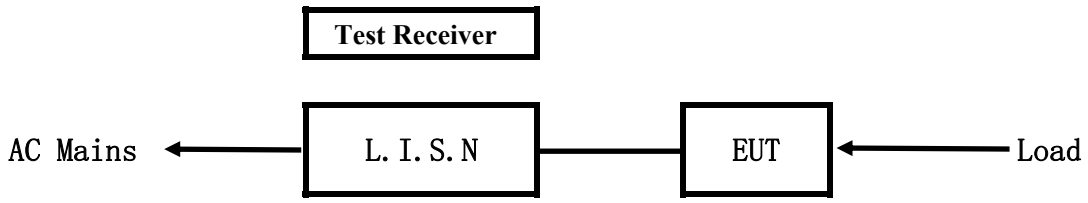
5.0 Power Line Conducted Emission Test

5.1 Schematics of the test



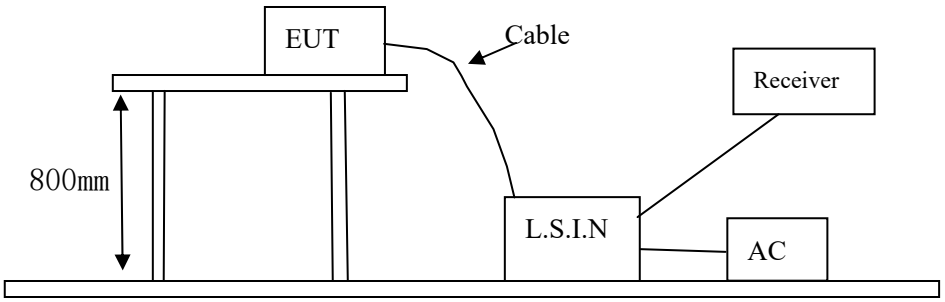
EUT: Equipment Under Test

5.2 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



5.3 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
HD525 Agricultural Drone	Heilongjiang Huida Technology Co., Ltd.	3WWDZ-U25A	2BBNT-3WWDZ-U25A

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

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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

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Q asi-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

5.6 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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6 Radiated Emission Test

6.1 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. F 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.

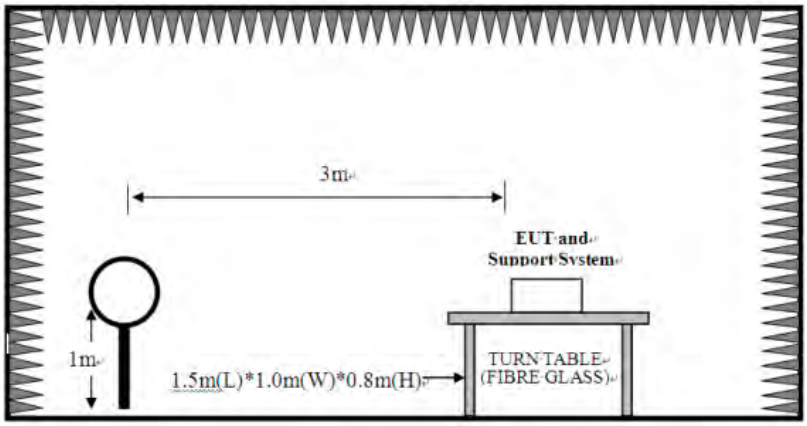
(4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

(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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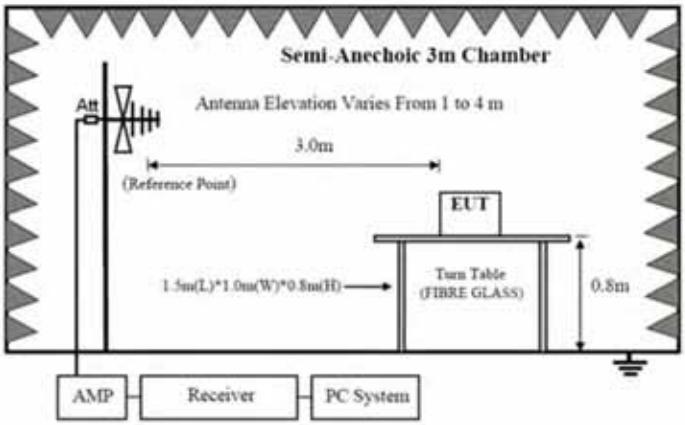
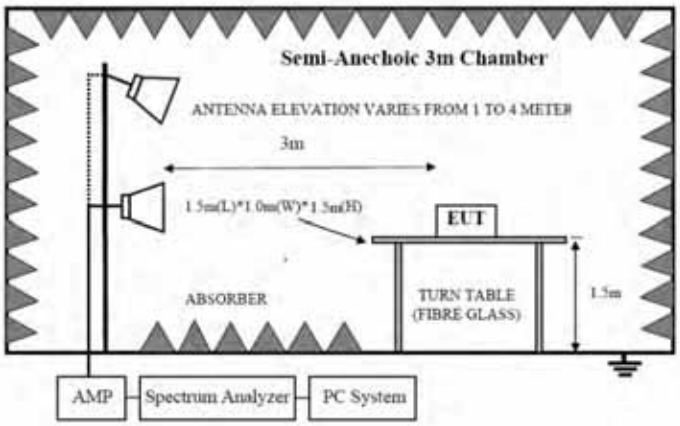
For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 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)
0.009-0.049	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-88	3	40.0
88-216	3	43.5
16-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
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

Note: Only the worst case was recorded in the test report.

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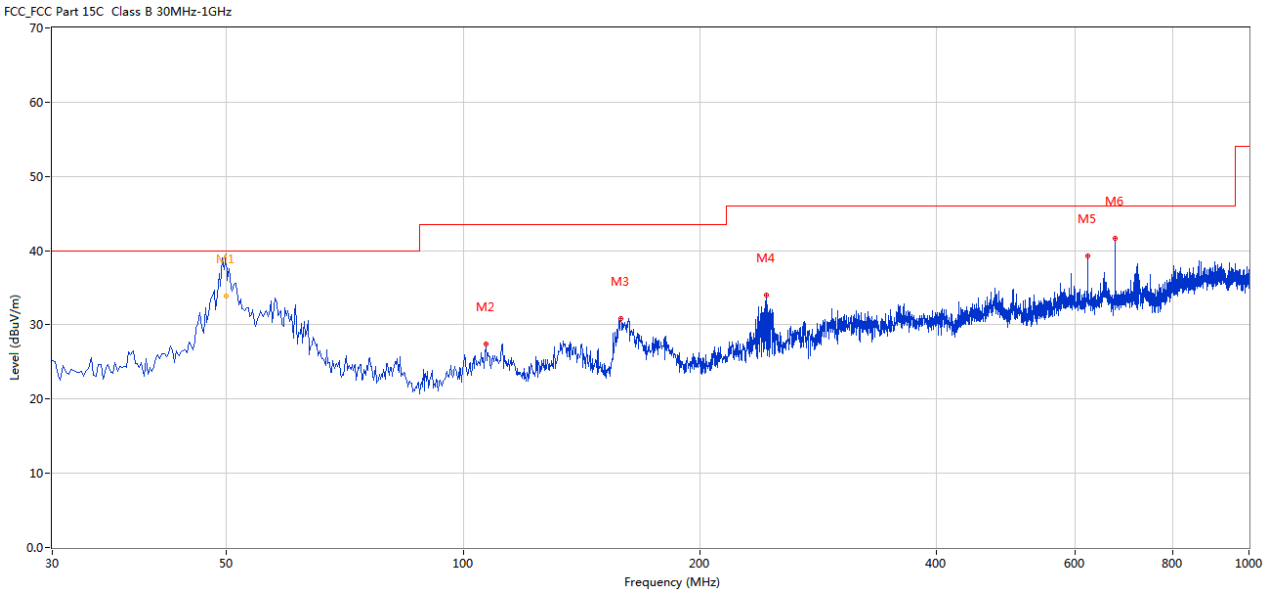
Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: **Keep Transmitting**

Results: **Pass**



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1*	49.880	33.90	-5.20	40.0	6.10	QP	321.00	100	Horizontal	Pass
2	106.853	27.38	-6.12	43.5	16.12	Peak	105.00	100	Horizontal	Pass
3	158.735	30.86	-9.58	43.5	12.64	Peak	122.00	100	Horizontal	Pass
4	243.104	34.00	-5.47	46.0	12.00	Peak	47.00	100	Horizontal	Pass
5	623.977	39.31	1.40	46.0	6.69	Peak	11.00	100	Horizontal	Pass
6	674.889	41.68	1.84	46.0	4.32	Peak	173.00	100	Horizontal	Pass

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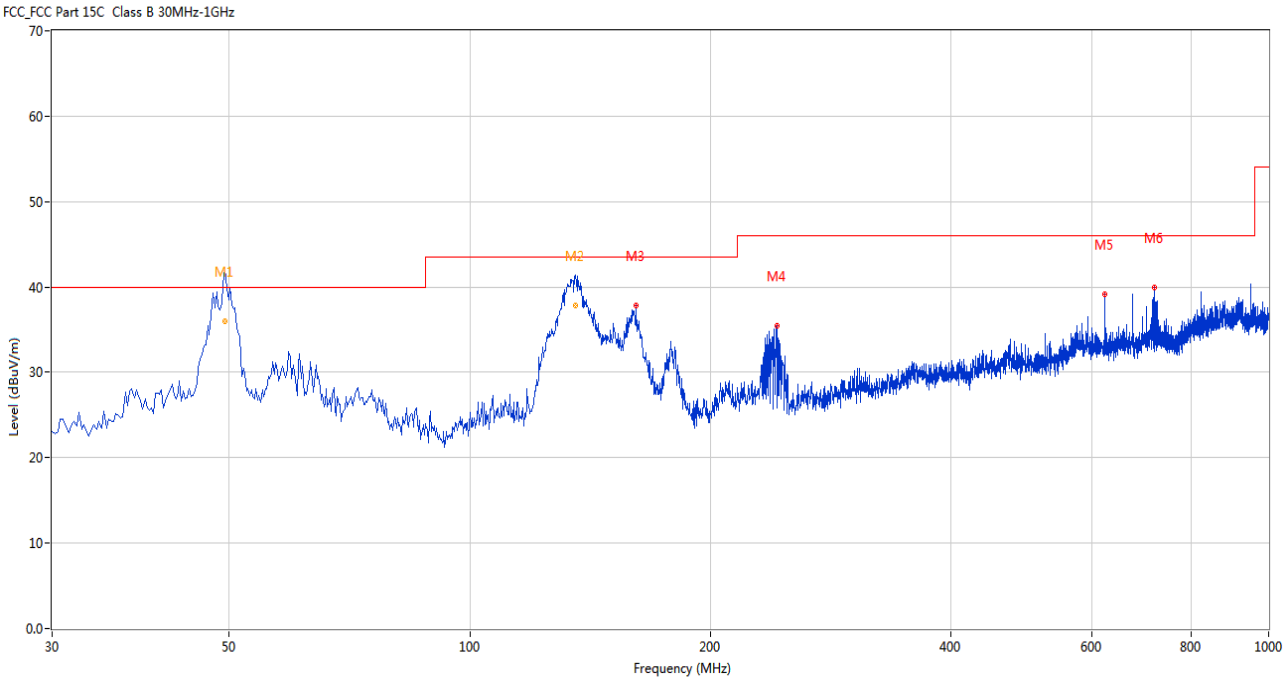
Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: **Keep Transmitting**

Results: **Pass**



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1*	49.395	36.04	-5.23	40.0	3.96	QP	167.00	100	Vertical	Pass
2*	135.461	37.77	-9.65	43.5	5.73	QP	265.00	100	Vertical	Pass
3	161.402	37.85	-9.64	43.5	5.65	Peak	26.00	100	Vertical	Pass
4	242.377	35.50	-5.51	46.0	10.50	Peak	141.00	100	Vertical	Pass
5	623.977	39.17	1.40	46.0	6.83	Peak	261.00	100	Vertical	Pass
6	718.770	39.89	1.88	46.0	6.11	Peak	101.00	100	Vertical	Pass

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Operation Mode: Transmitting under CH01 for 802.11b mode

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4824.00	63.4 (PK) / 47.7 (AV)	H	74(Peak)/ 54(AV)
4824.00	57.5 (PK) / 43.6 (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)

Operation Mode: Transmitting under CH06 for 802.11b mode

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4874.00	60.2 (PK)/ 44.7 (AV)	H	74(Peak)/ 54(AV)
4874.00	55.9 (PK)/ 40.5 (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)

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Operation Mode: Transmitting under CH11 for 802.11b mode

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m
4924	63.5 (PK) / 47.3 (AV)	H	74(Peak)/ 54(AV)
4924	58.8 (PK) / 43.4 (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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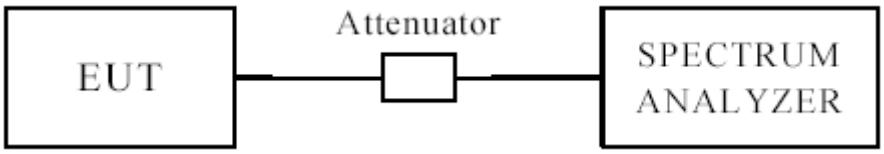
7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) ≥ 3 x 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.

7.4 Test Result

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6dB Occupied Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.07	0.5	Pass
		2437		10.08	0.5	Pass
		2462		10.03	0.5	Pass
	g	2412		16.30	0.5	Pass
		2437		16.33	0.5	Pass
		2462		16.31	0.5	Pass
	n20	2412		16.91	0.5	Pass
		2437		16.90	0.5	Pass
		2462		17.03	0.5	Pass
	n40	2422		35.39	0.5	Pass
		2437		35.13	0.5	Pass
		2452		35.05	0.5	Pass

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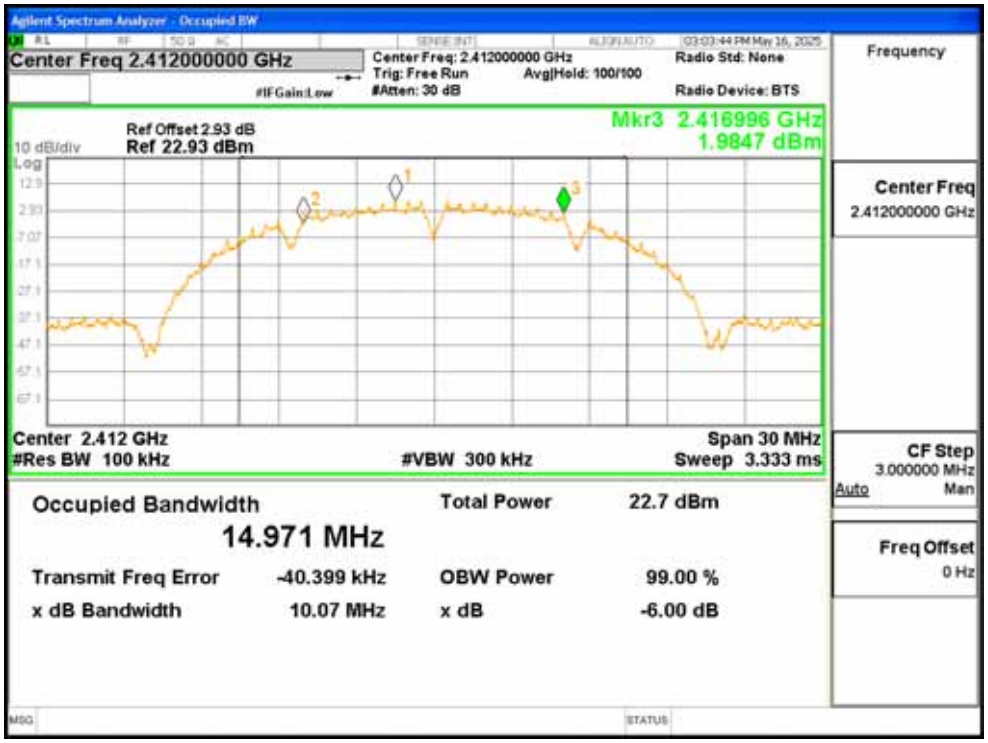
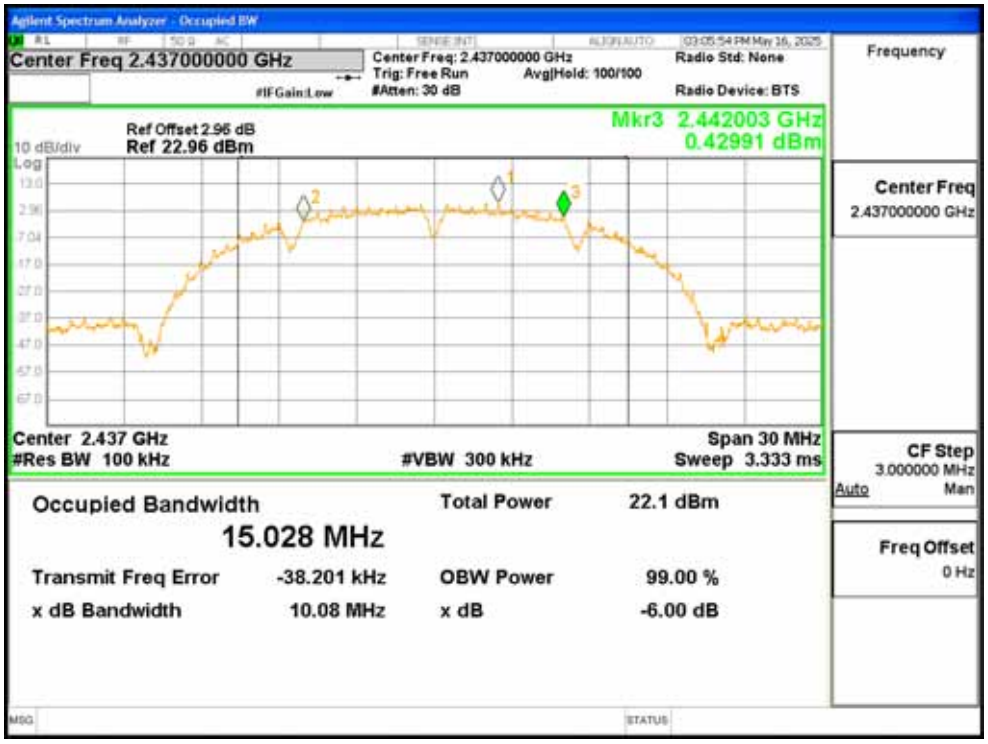
Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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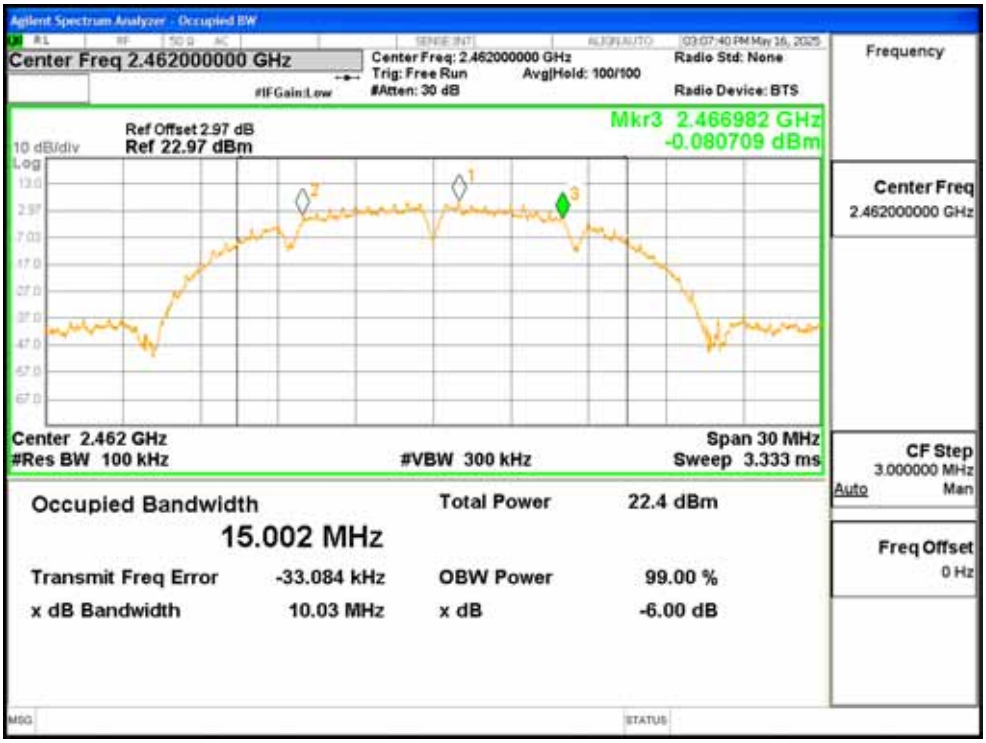
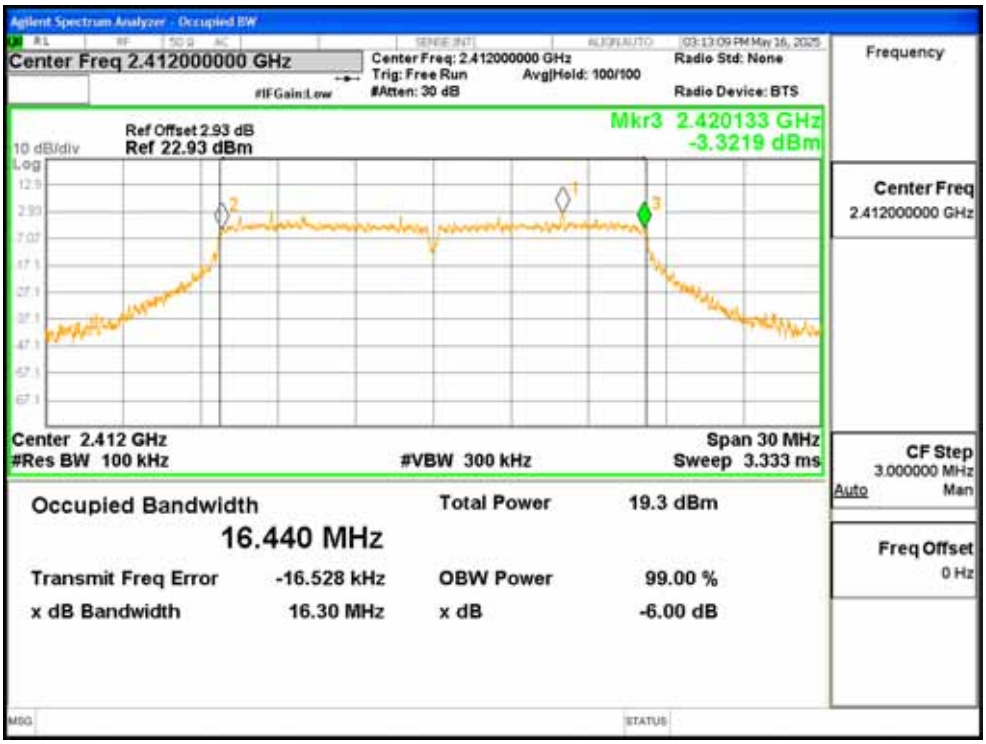
-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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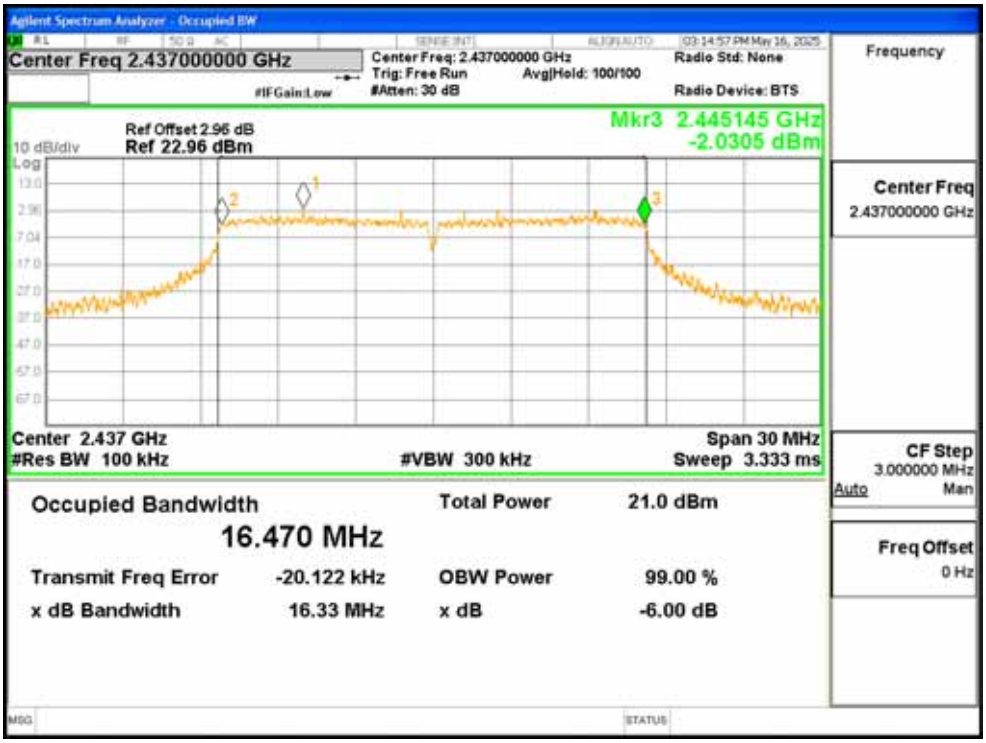
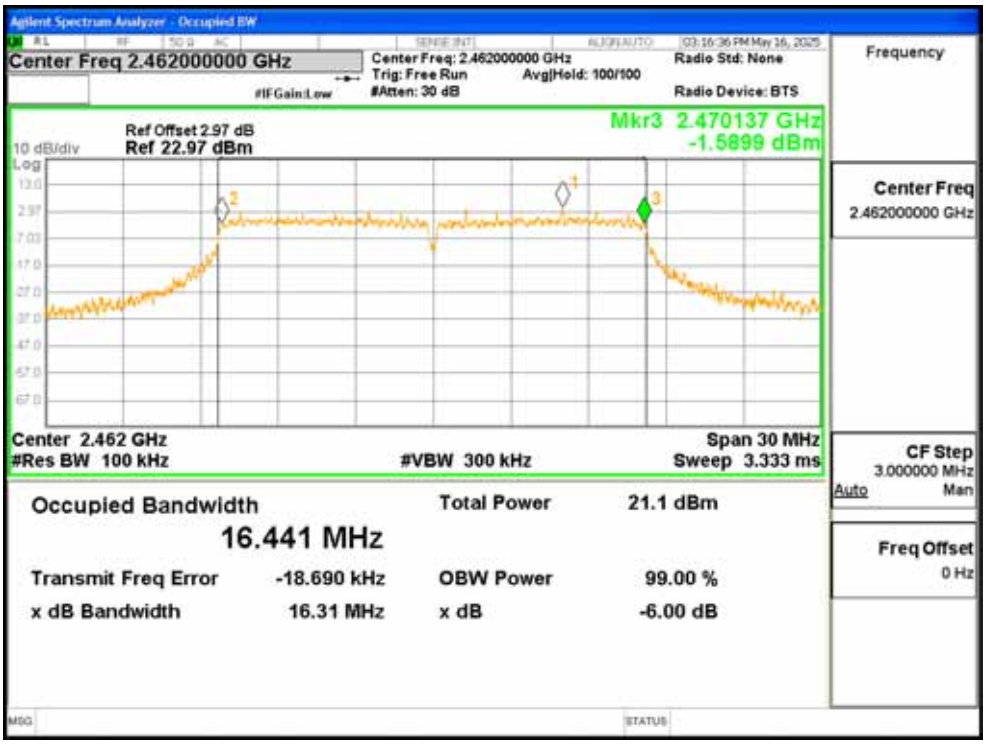
-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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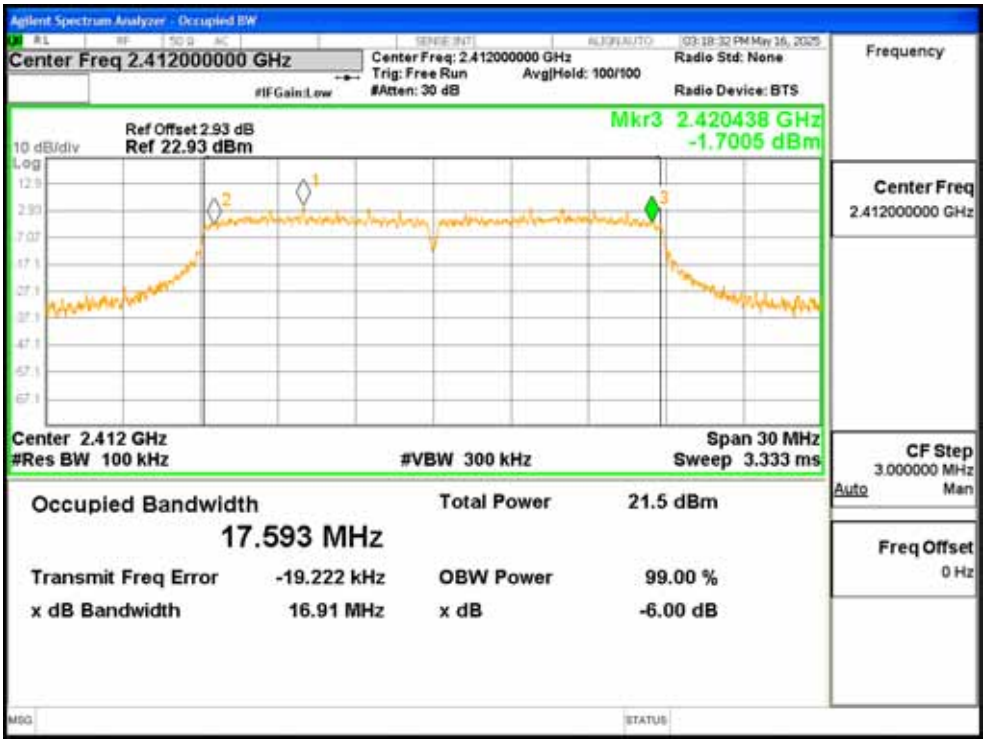
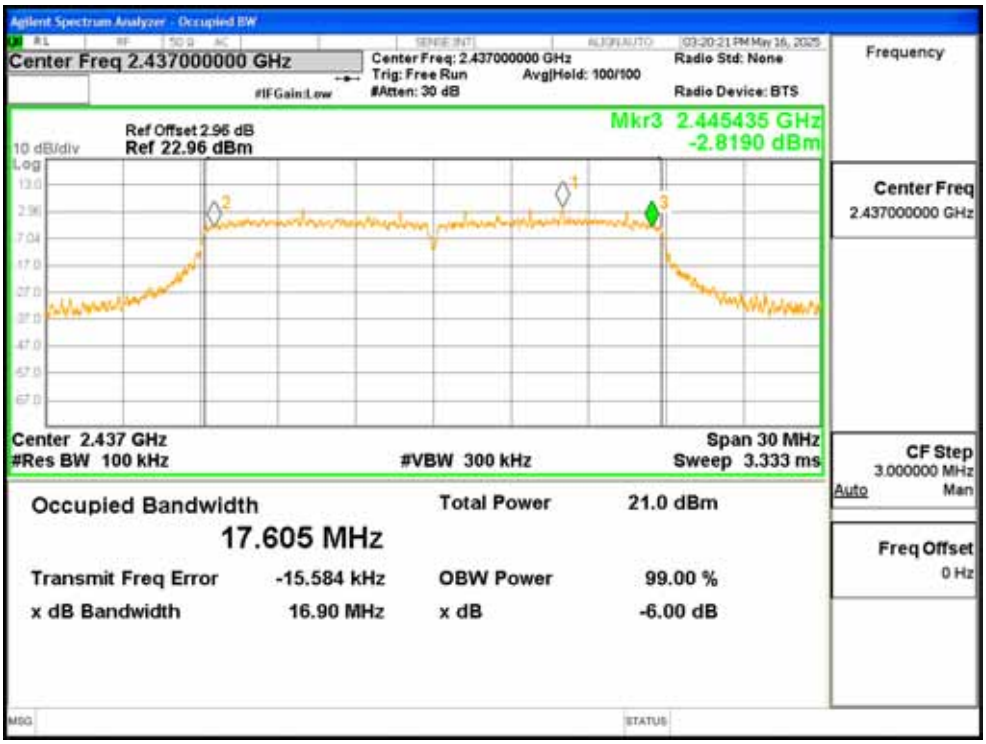
-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



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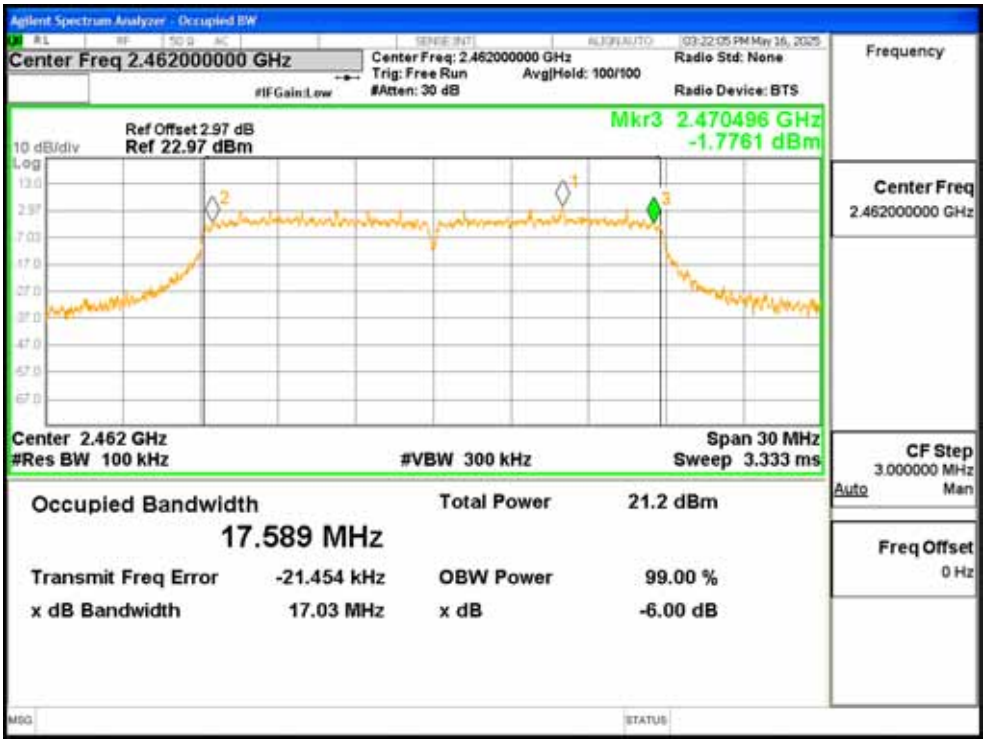
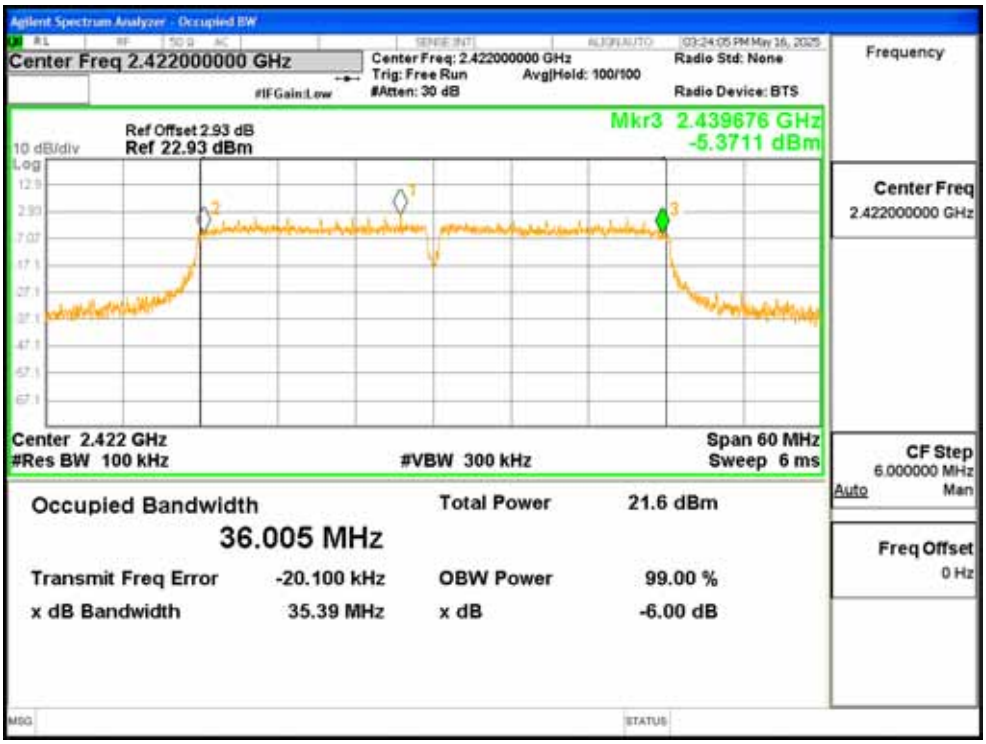
-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



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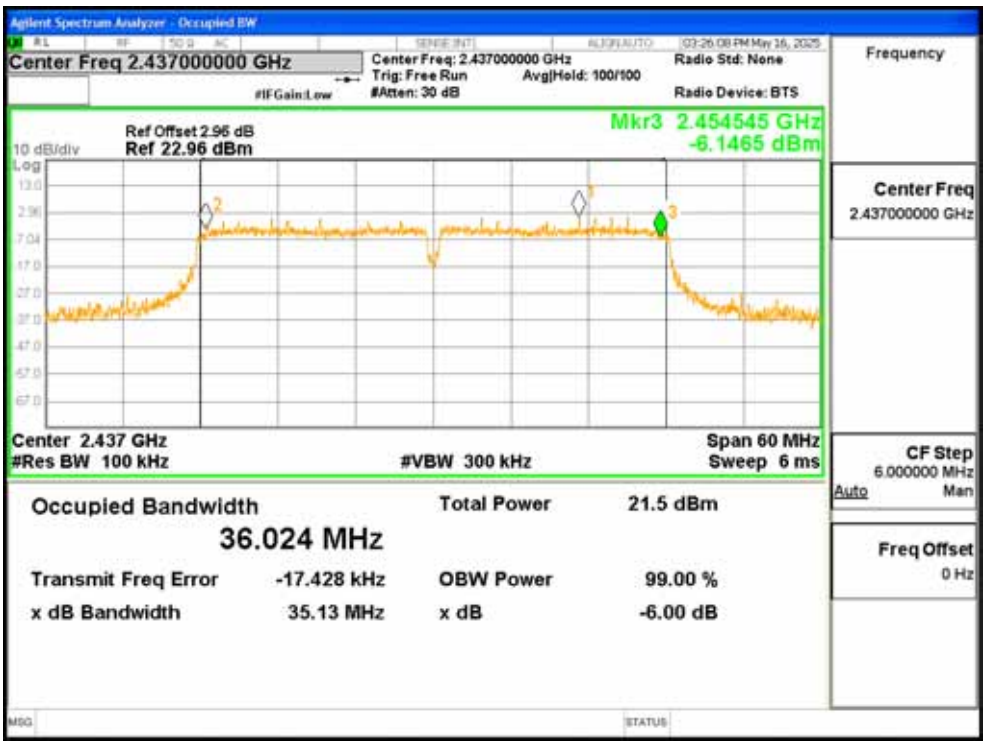
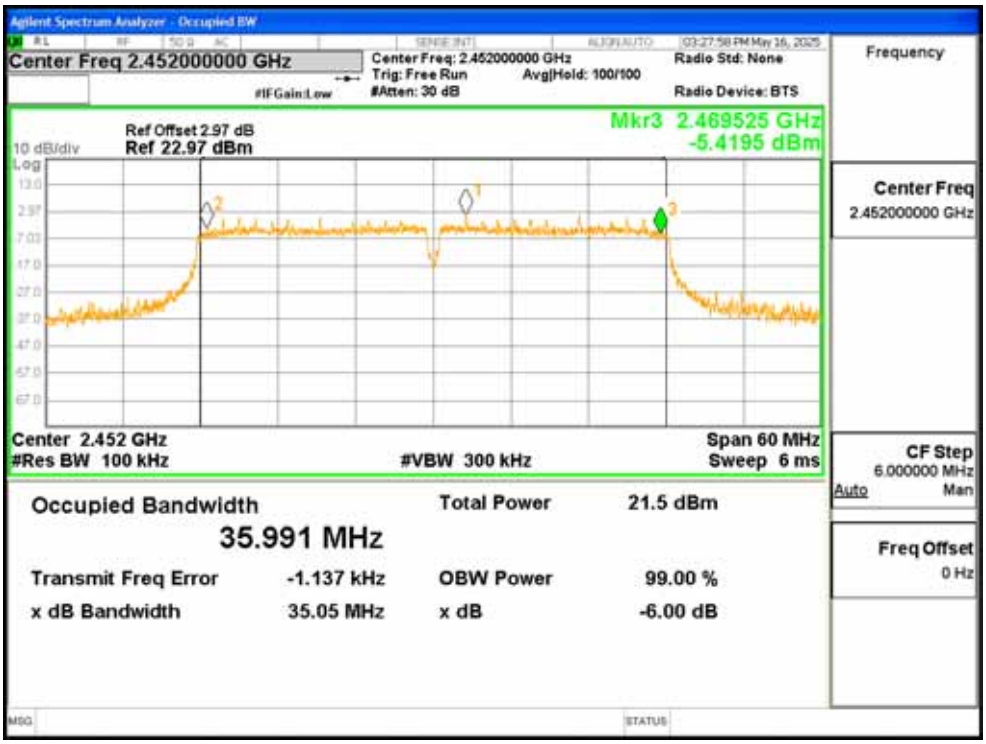
-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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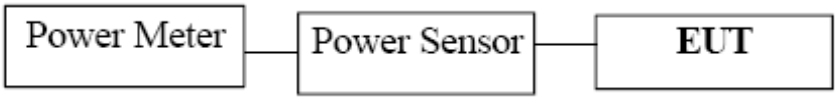
8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 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 was measured

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8.4Test Results

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.9	0	16.9	30	Pass
		2437		16.45	0	16.45	30	Pass
		2462		16.95	0	16.95	30	Pass
	g	2412		14.12	0	14.12	30	Pass
		2437		15.86	0	15.86	30	Pass
		2462		16.22	0	16.22	30	Pass
	n20	2412		16.29	0	16.29	30	Pass
		2437		15.78	0	15.78	30	Pass
		2462		16.18	0	16.18	30	Pass
	n40	2422		16.19	0	16.19	30	Pass
		2437		16.03	0	16.03	30	Pass
		2452		16.14	0	16.14	30	Pass

Note: 1. The worst-cases were recorded
2. The result basic equation calculation as follow:
Power Output = Power Reading + Cable loss + Attenuator
3. The worse case was recorded

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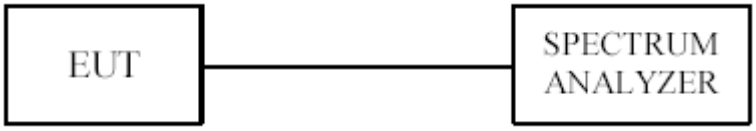
9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

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

9.3 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 = 100kHz.
3. Set the VBW ≥ 300 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 ≤ 8 dBm/3kHz.

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9.4Test Result

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/100kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	7.17	0	7.17	8	Pass
		2437		6.34	0	6.34	8	Pass
		2462		6.67	0	6.67	8	Pass
	g	2412		2.22	0	2.22	8	Pass
		2437		4.4	0	4.4	8	Pass
		2462		3.86	0	3.86	8	Pass
	n20	2412		4.78	0	4.78	8	Pass
		2437		3.69	0	3.69	8	Pass
		2462		3.48	0	3.48	8	Pass
	n40	2422		1.89	0	1.89	8	Pass
		2437		1.41	0	1.41	8	Pass
		2452		1.34	0	1.34	8	Pass

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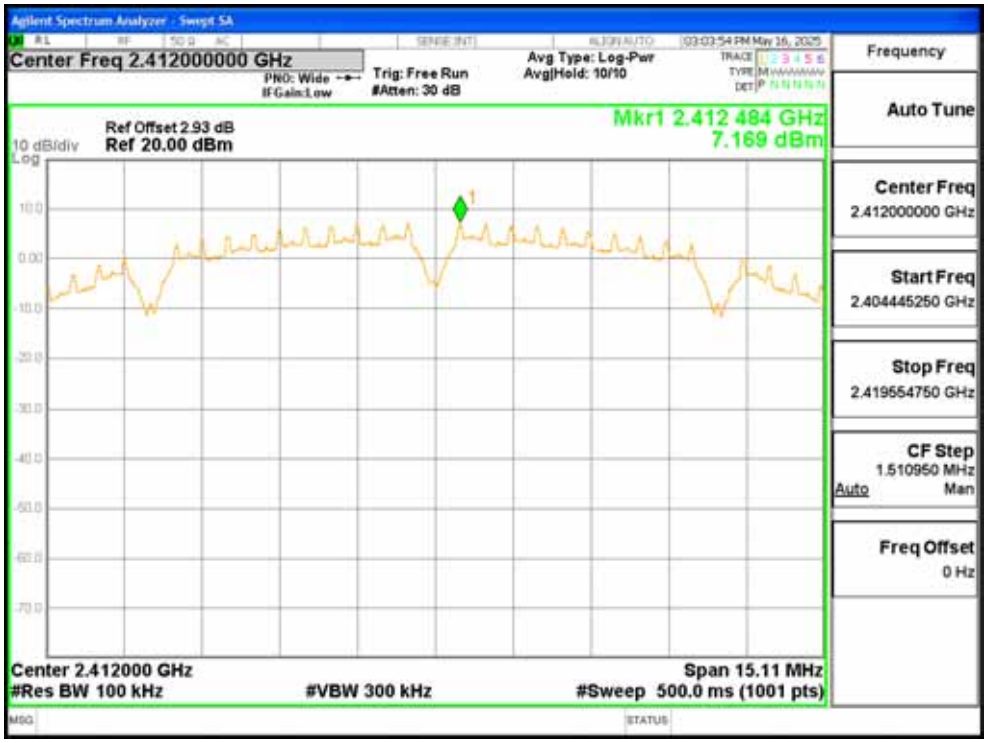
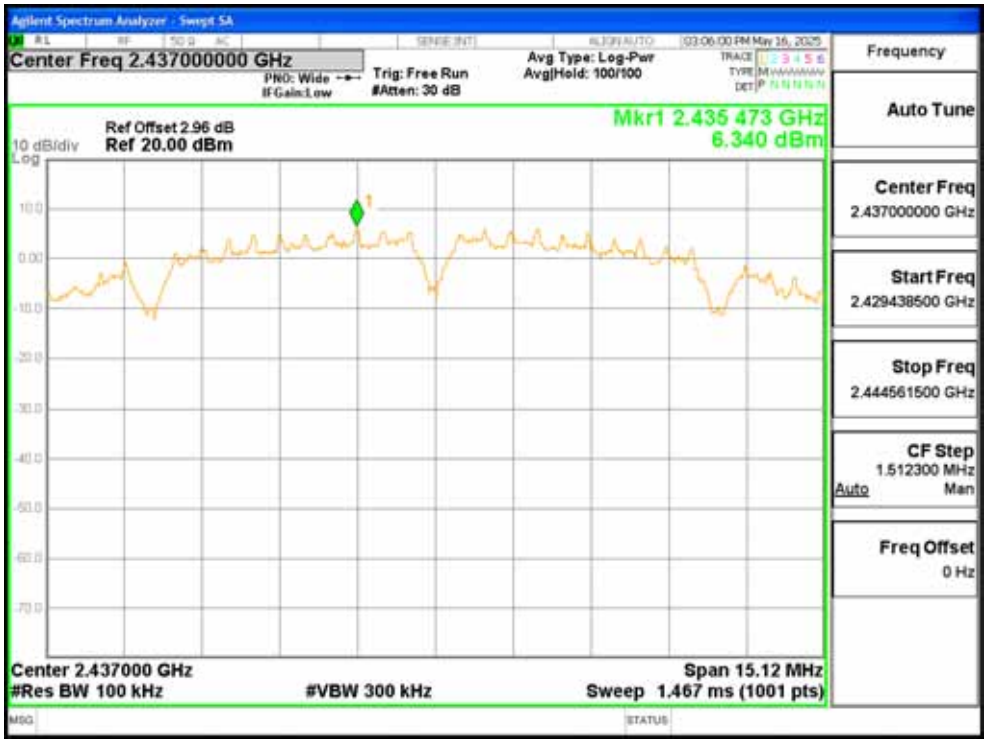
Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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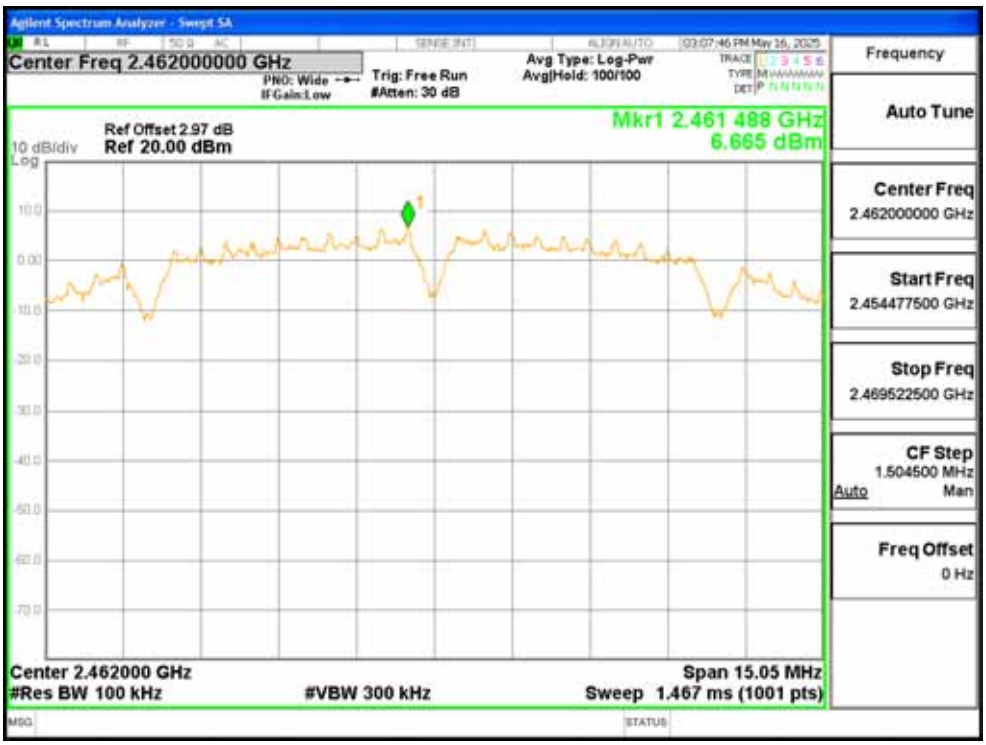
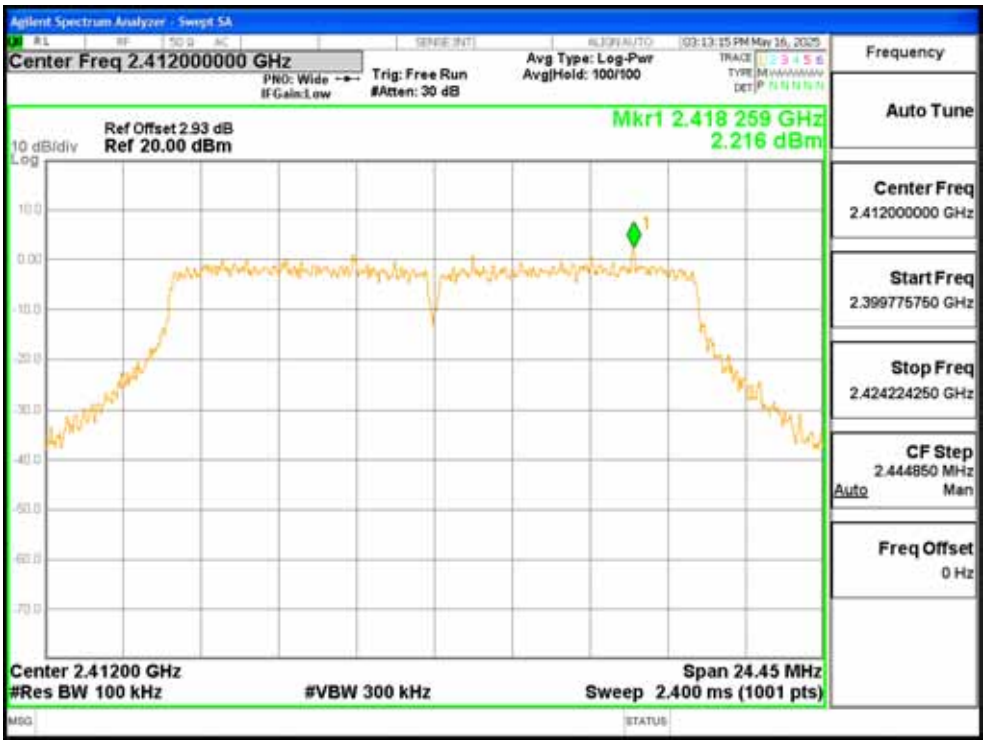
PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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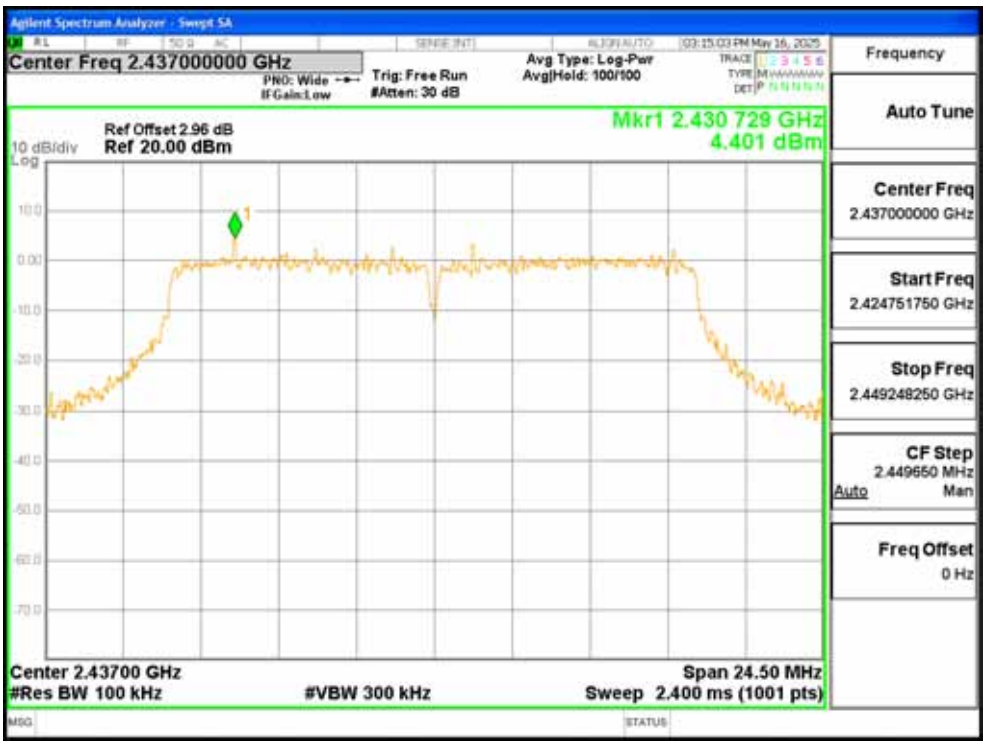
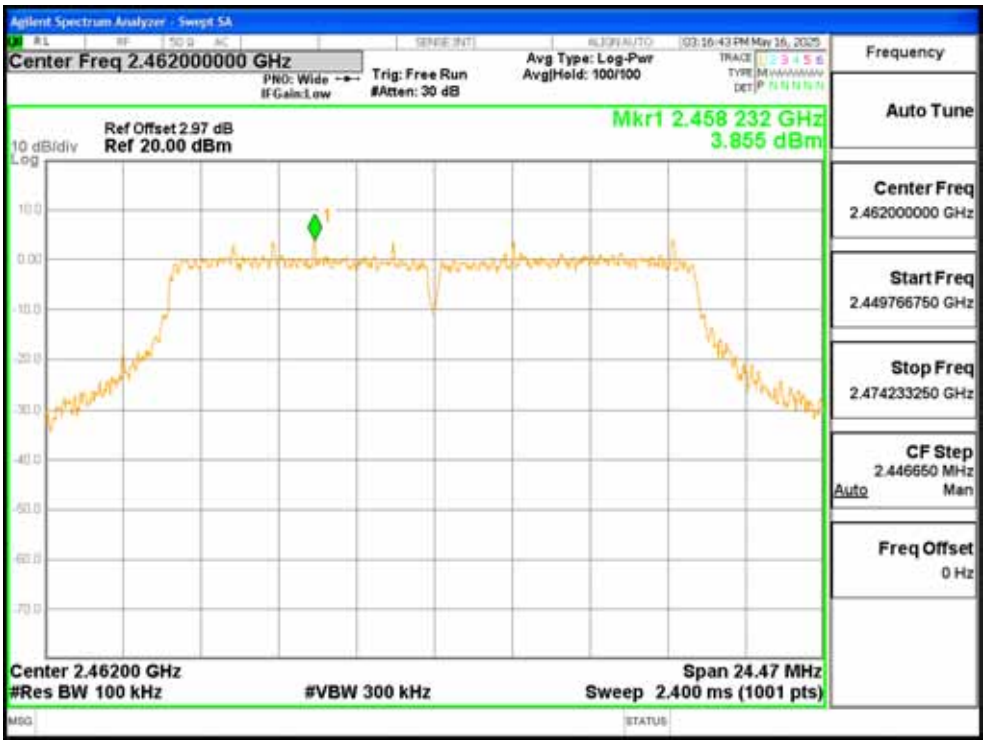
PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



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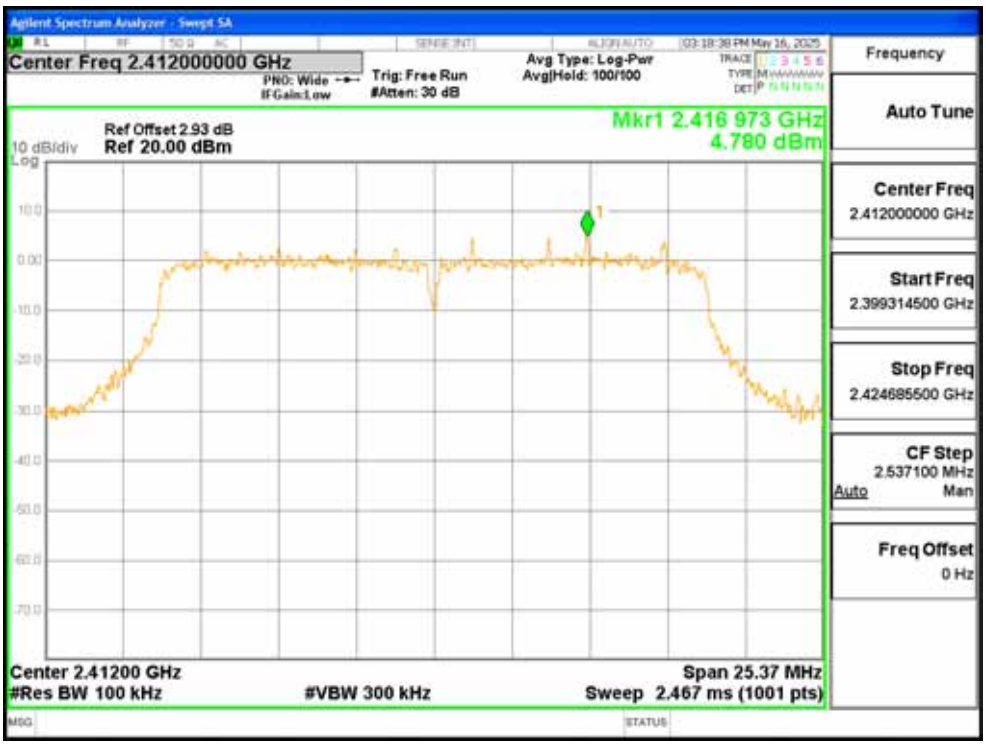
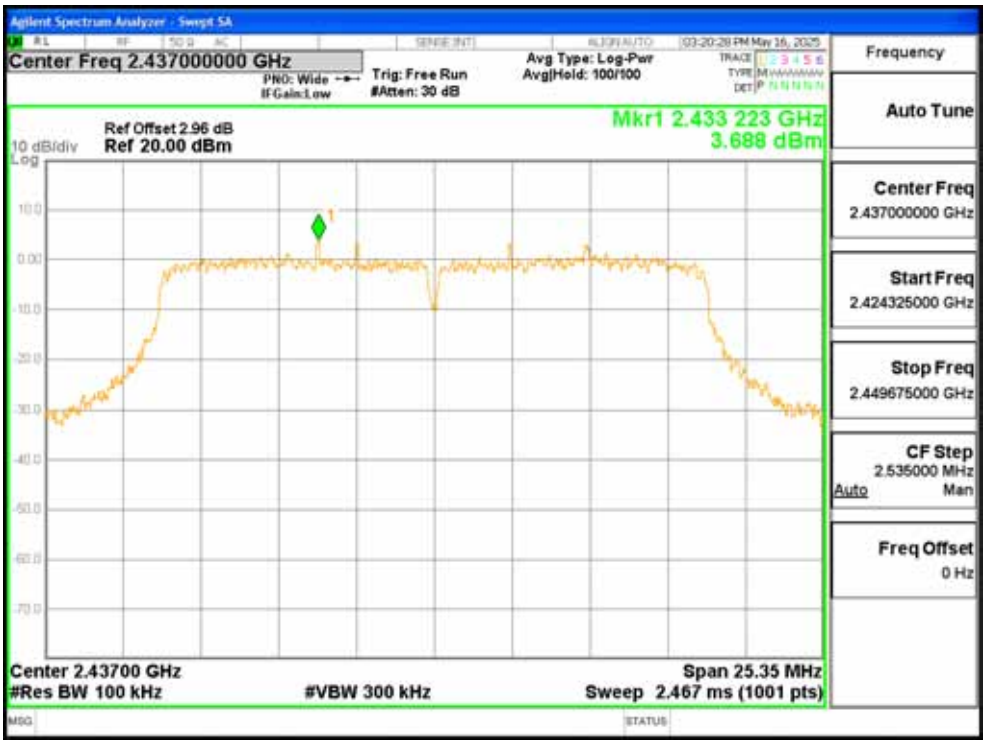
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



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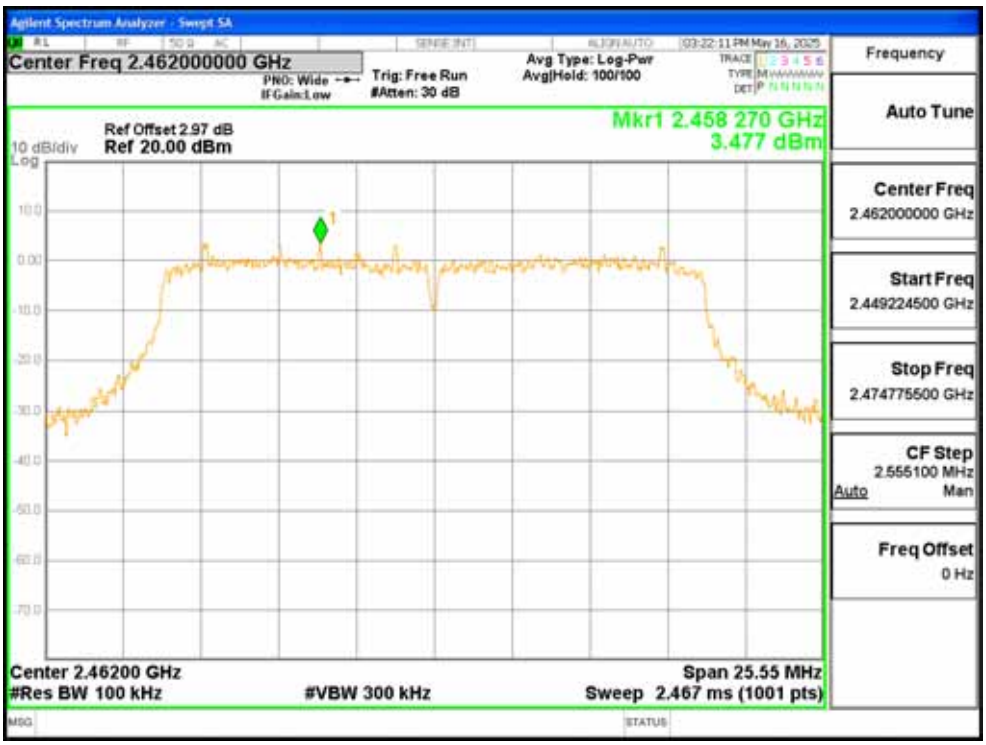
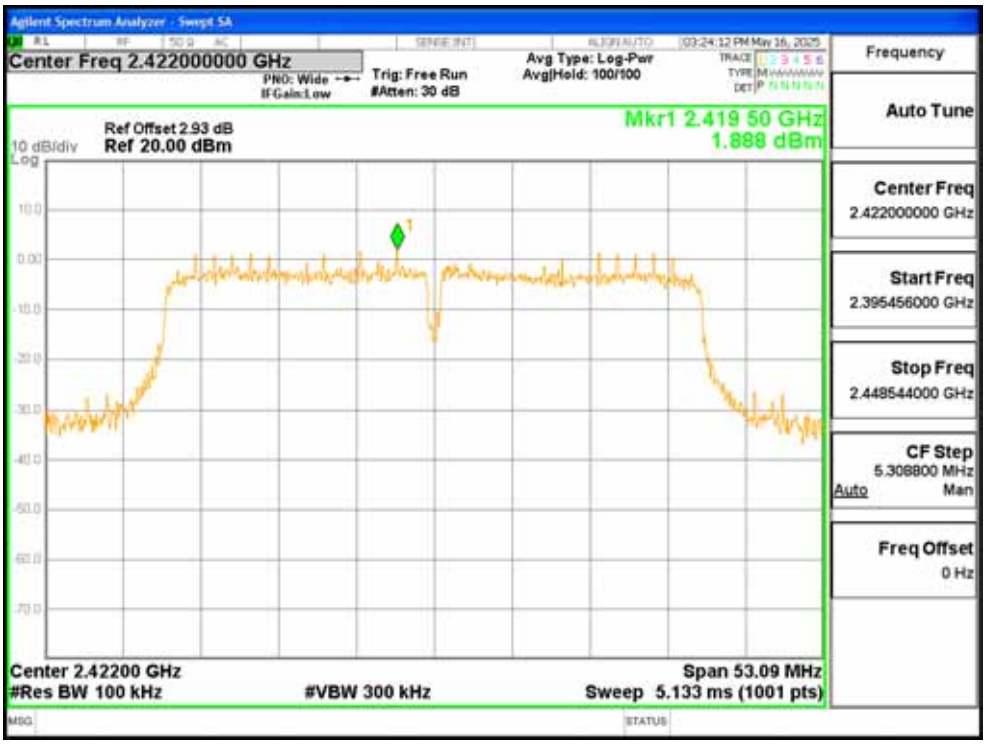
PSD NVNT n20 2462MHz Ant1



PSD NVNT n40 2422MHz Ant1



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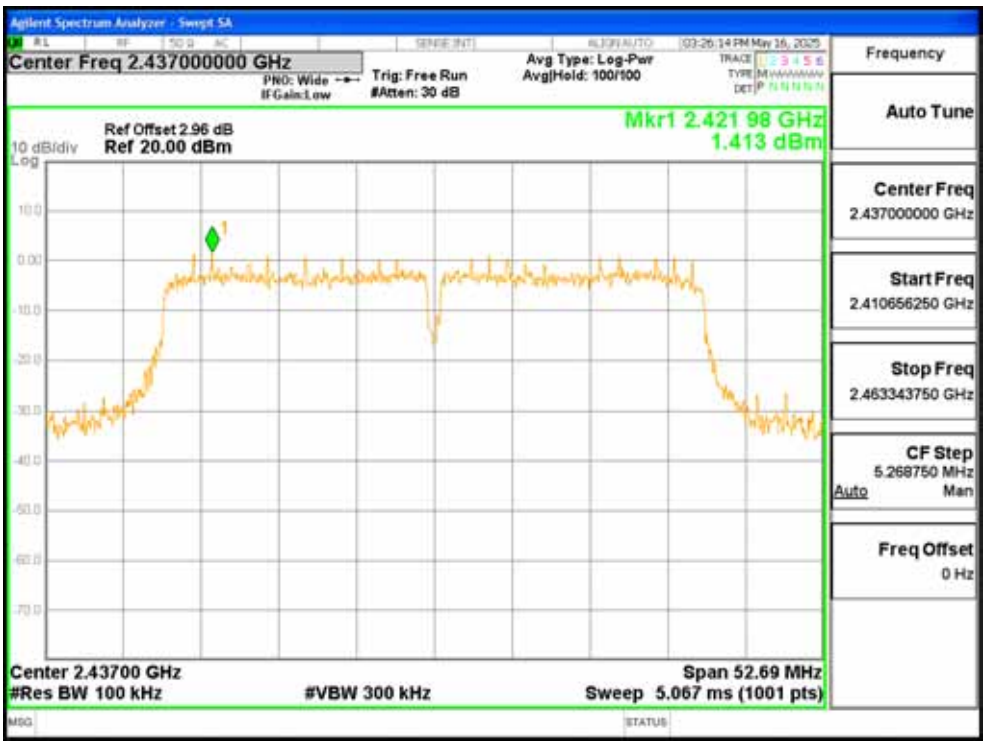
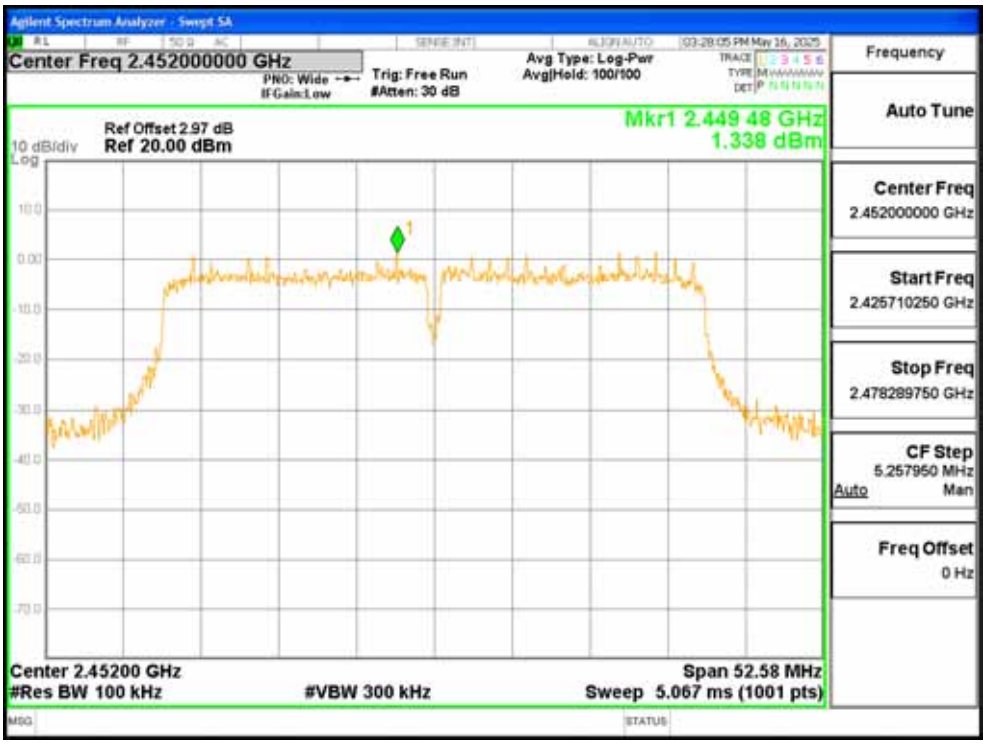
PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1



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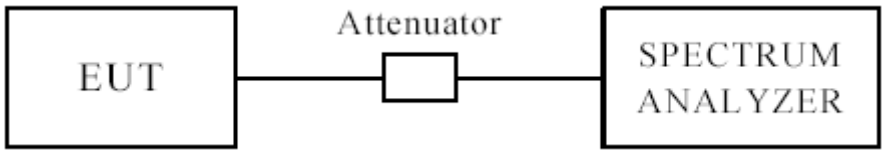
10 Out of Band Measurement

10.1 Test Setup for band edge



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

10.2 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.

10.3 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=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW≥1/T and PK detector)

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

10.4 Test Result

Please see next pages

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

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Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-43.42	-20	Pass
		2462		-57.95	-20	Pass
	g	2412		-35.42	-20	Pass
		2462		-45.17	-20	Pass
	n20	2412		-32.89	-20	Pass
		2462		-41.12	-20	Pass
	n40	2422		-28.55	-20	Pass
		2452		-33.24	-20	Pass

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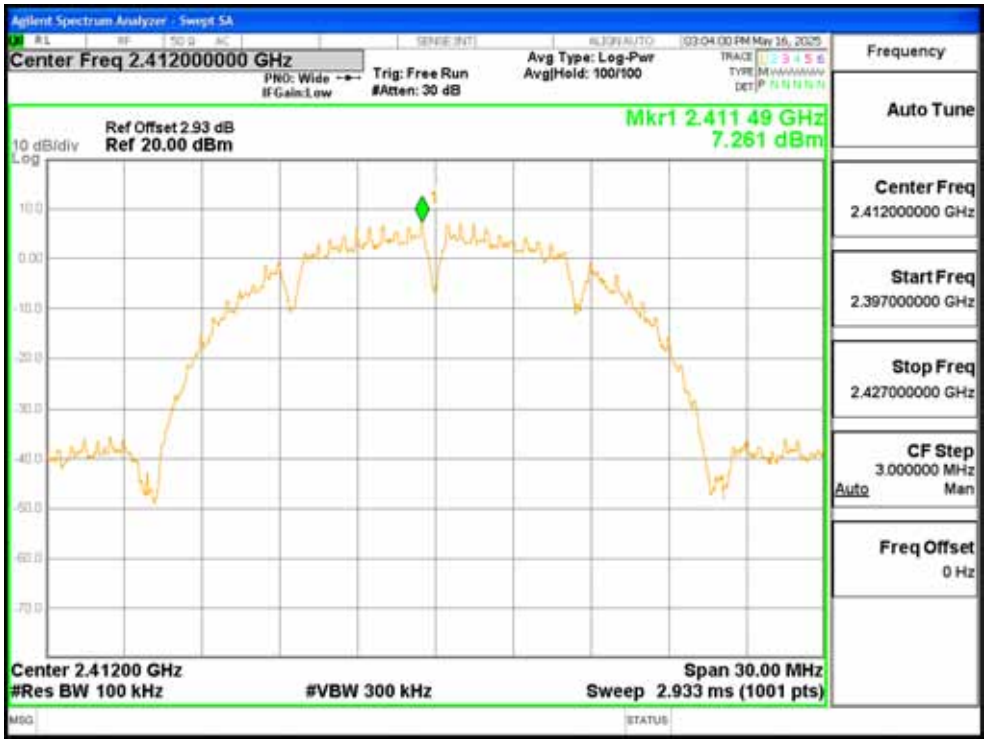
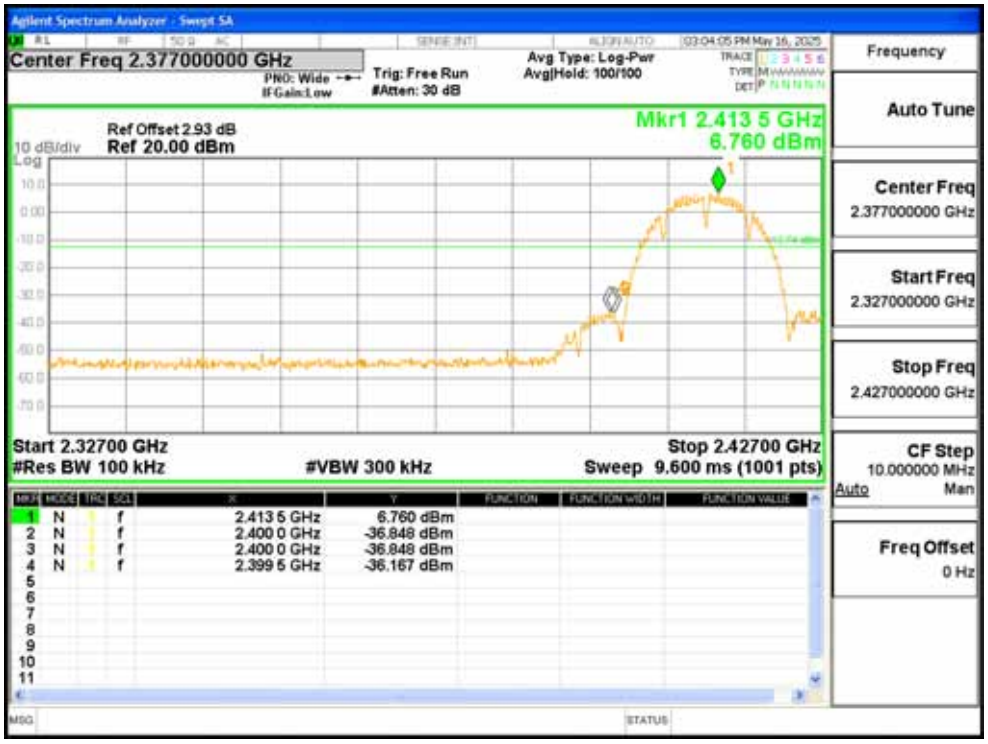
Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



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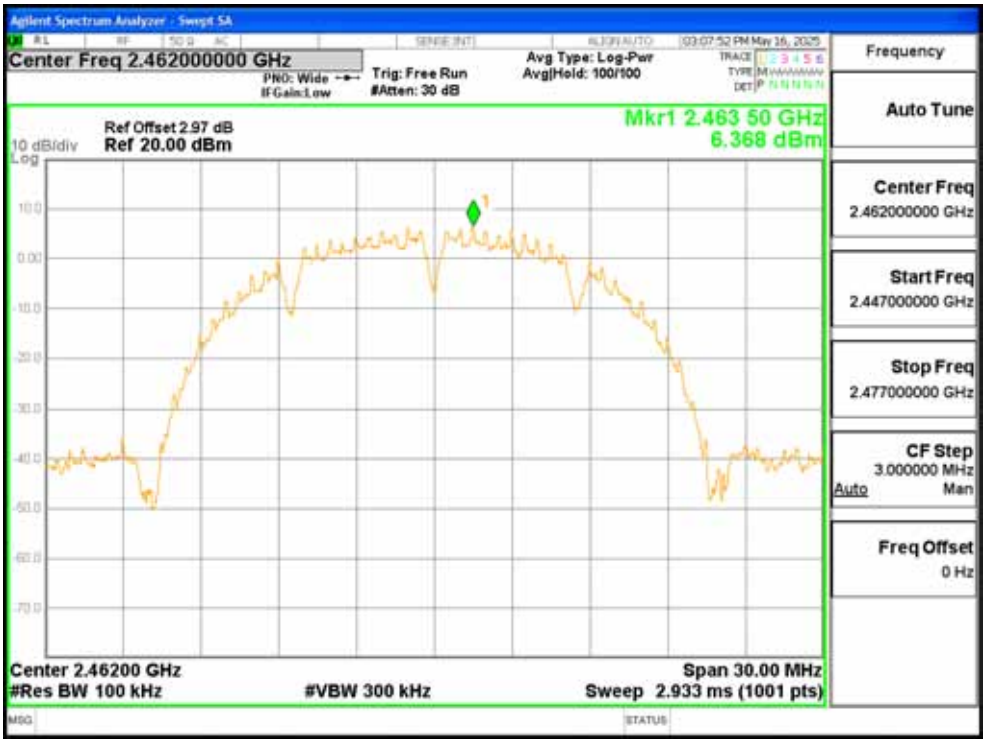
Band Edge NVNT b 2462MHz Ant1 Ref



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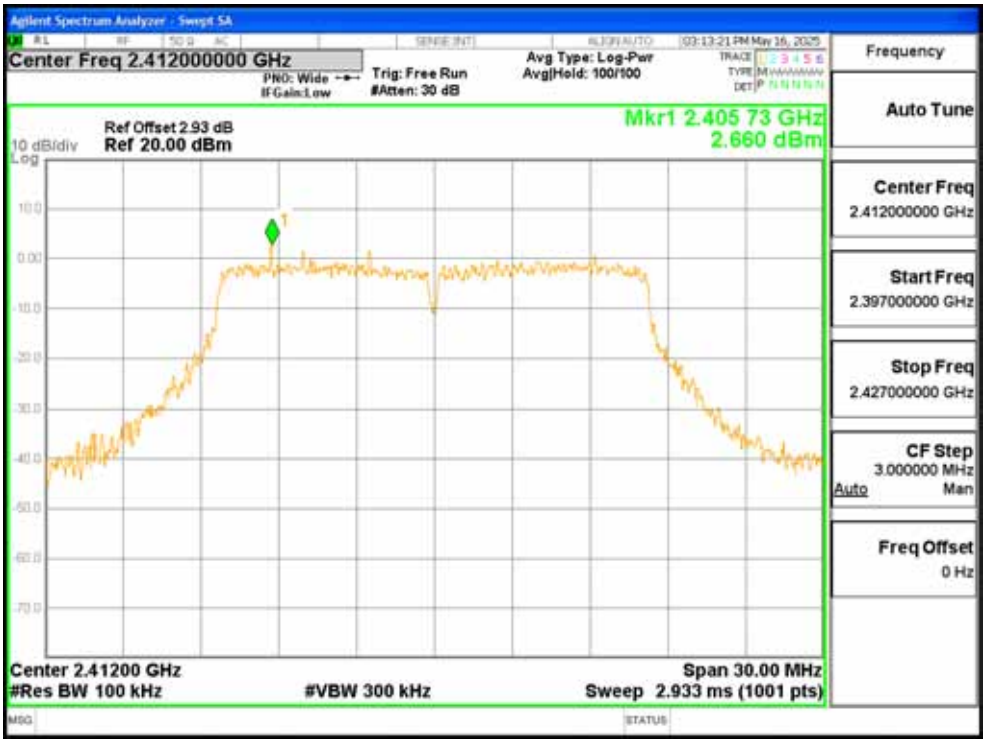
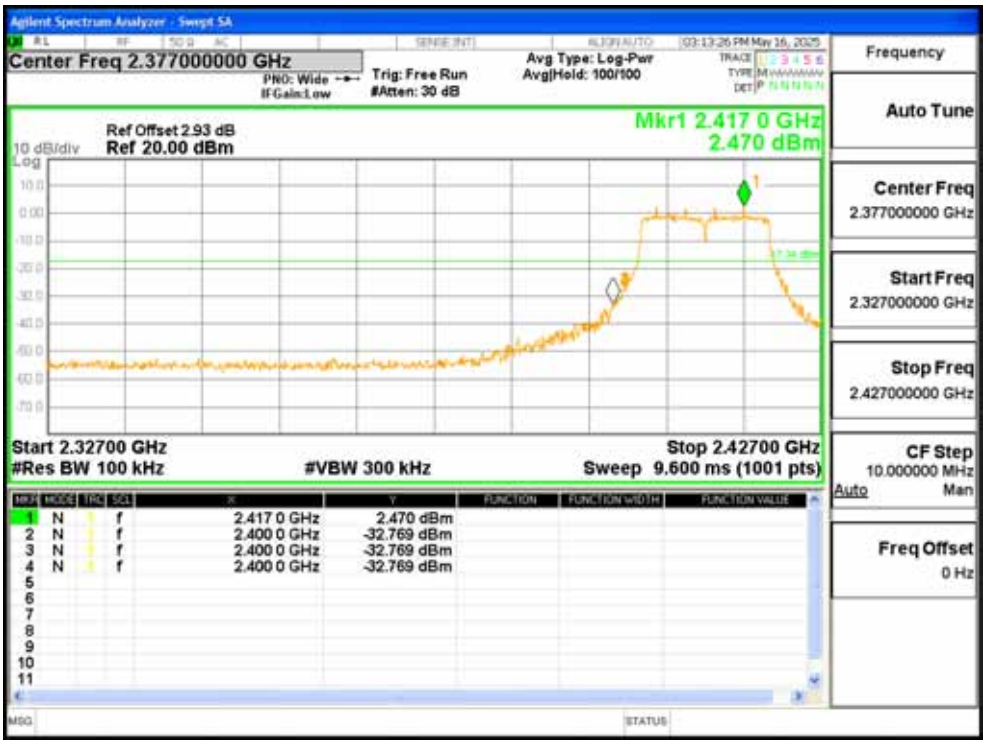
Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



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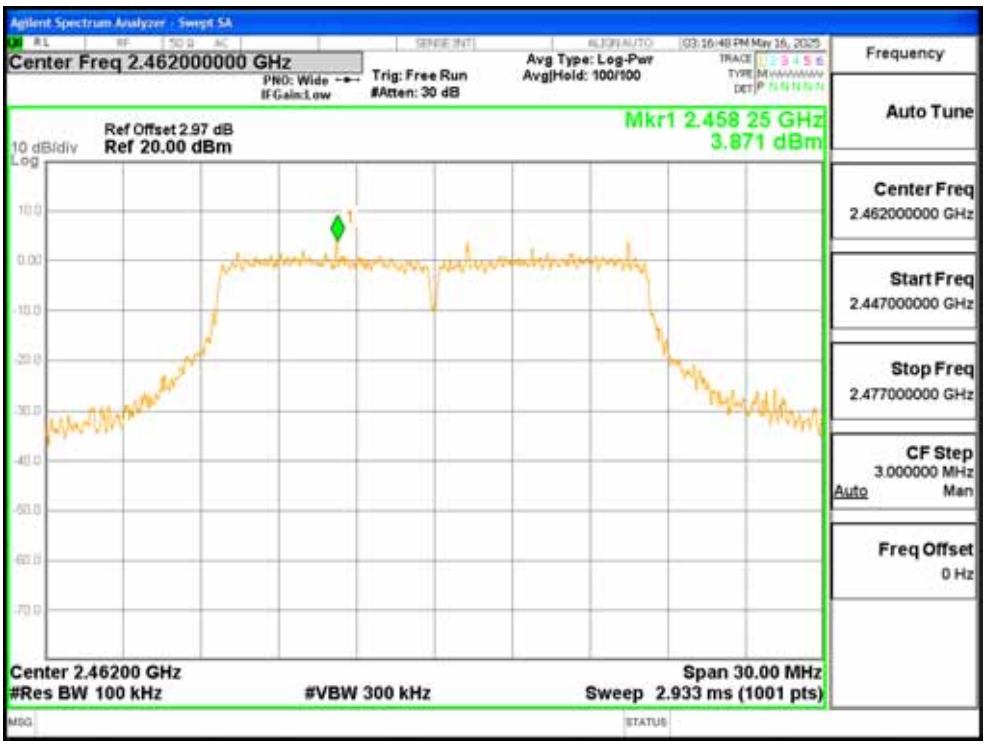
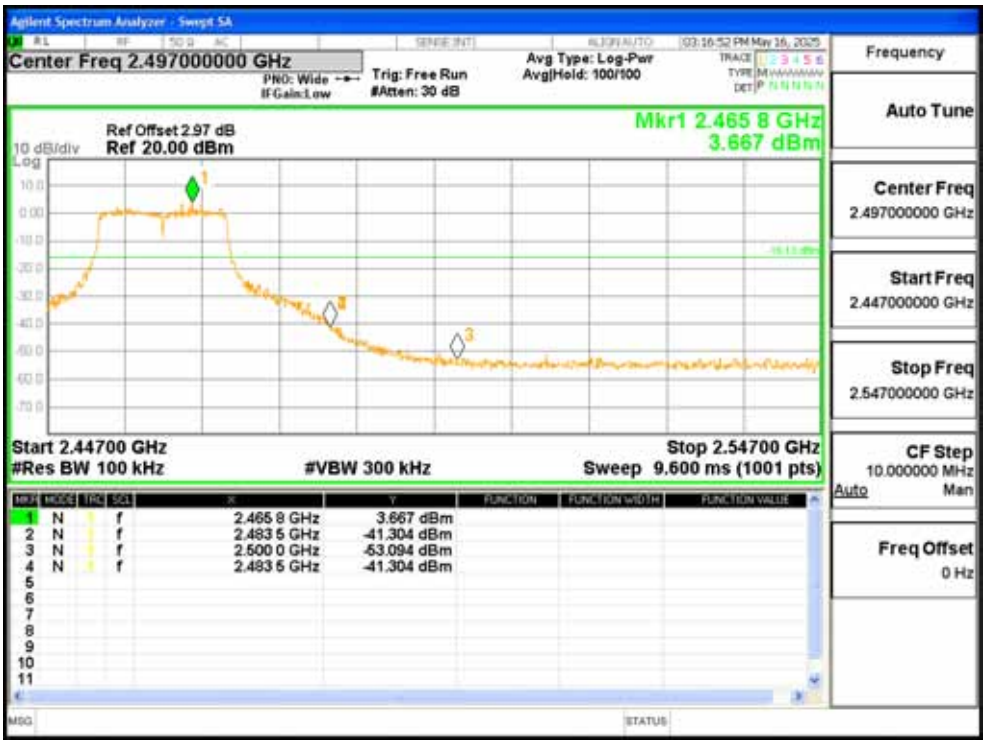


Band Edge NVNT g 2462MHz Ant1 Emission



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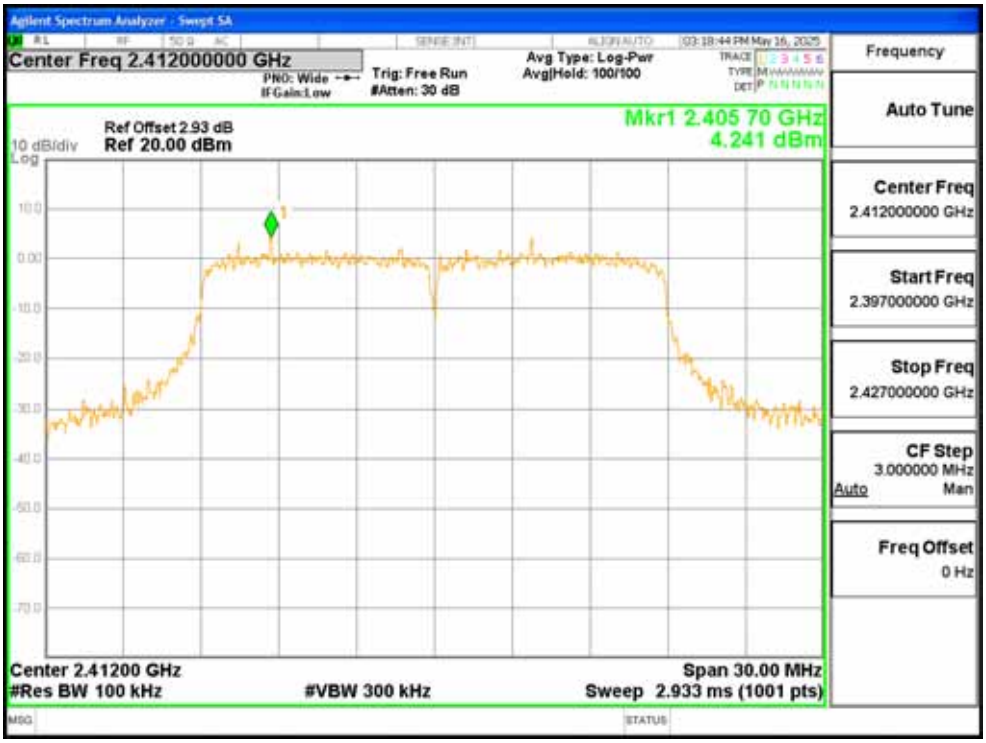
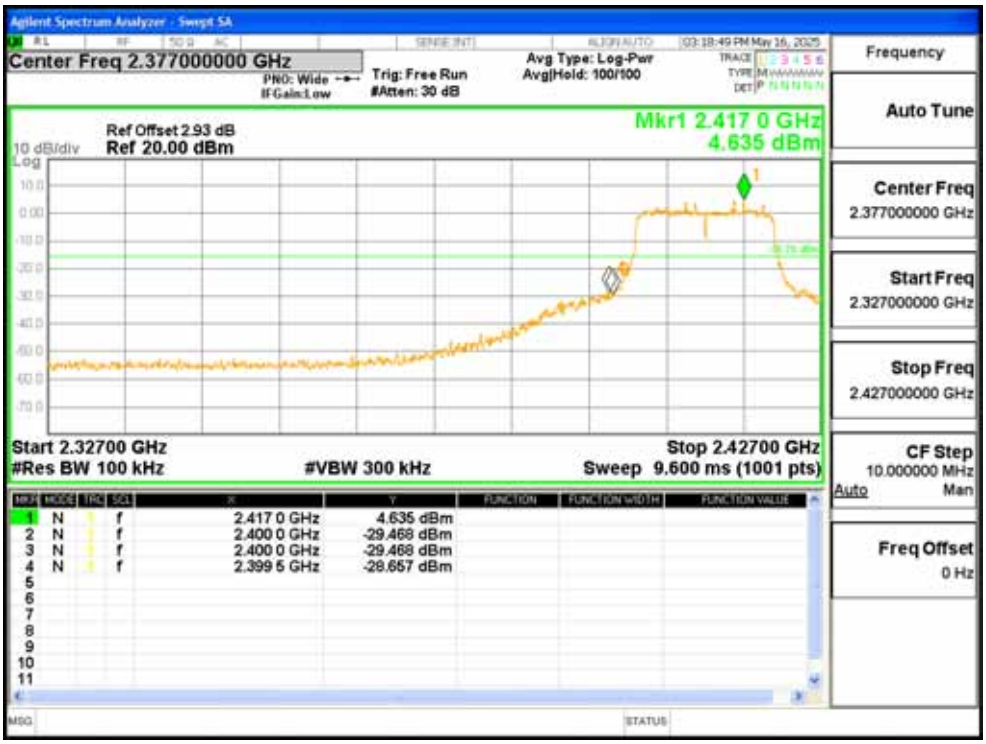
Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



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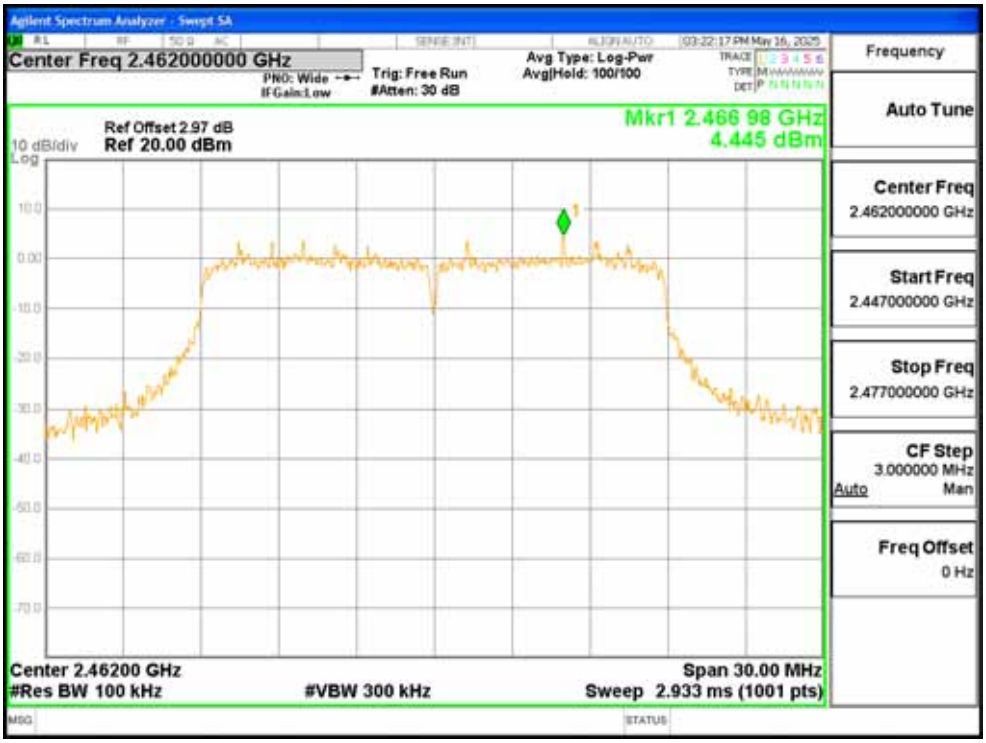
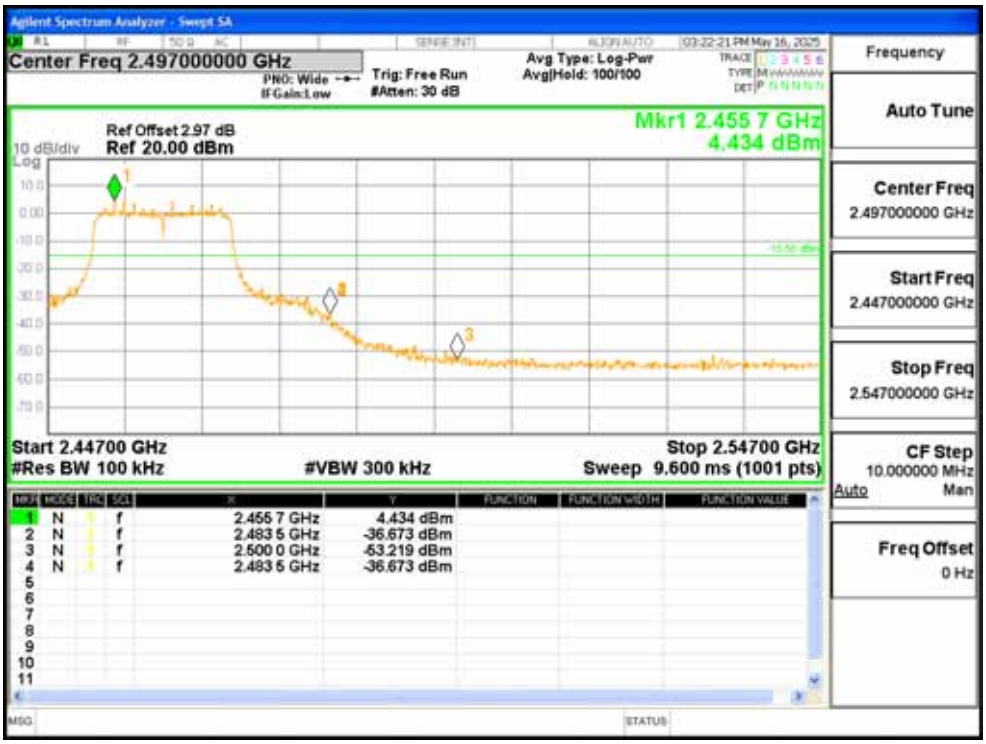


Band Edge NVNT n20 2462MHz Ant1 Emission



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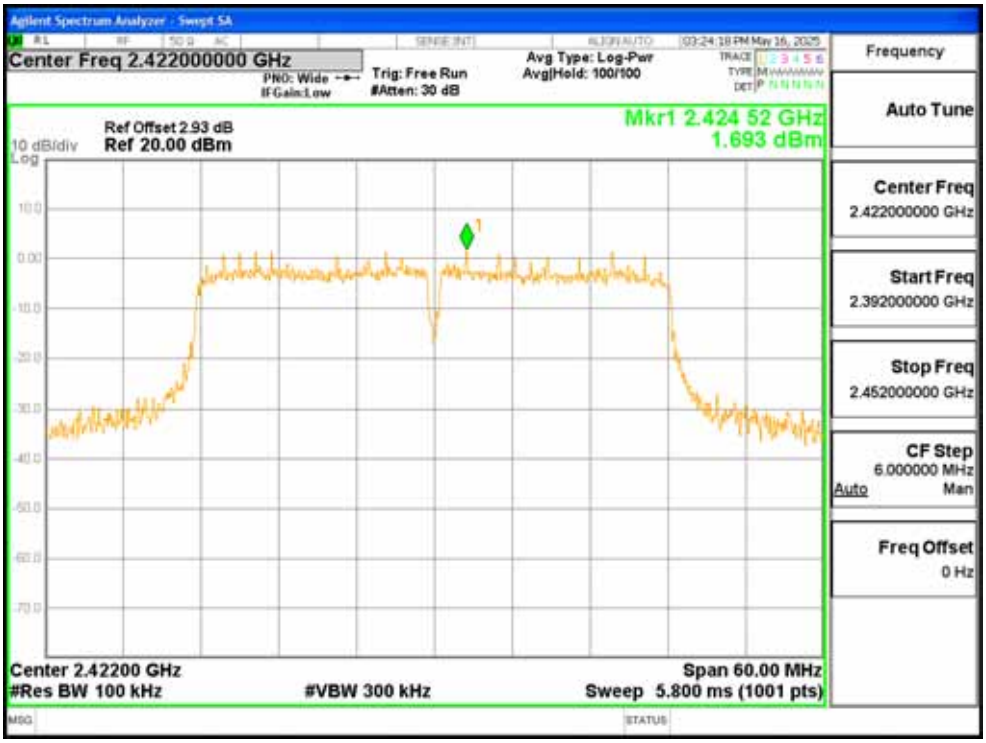
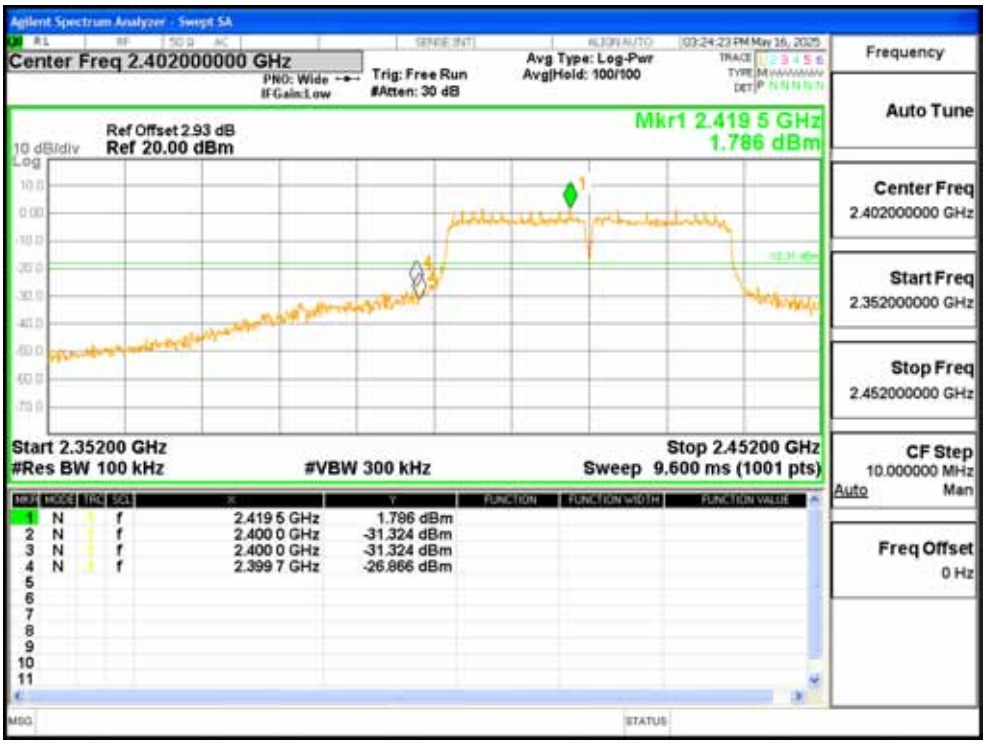
Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



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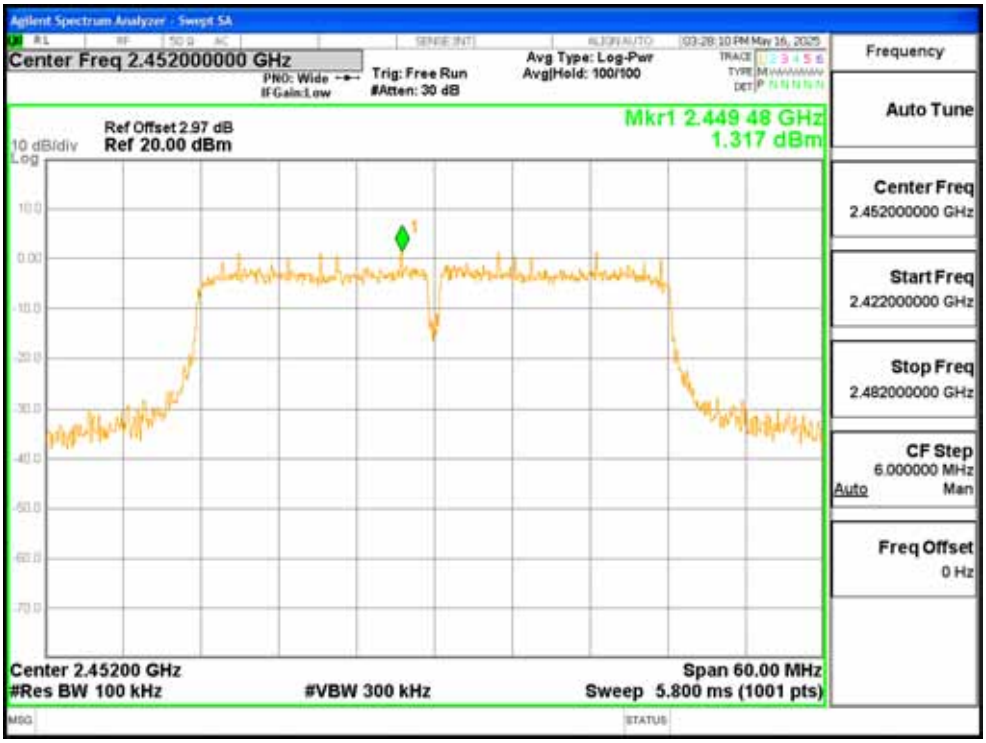
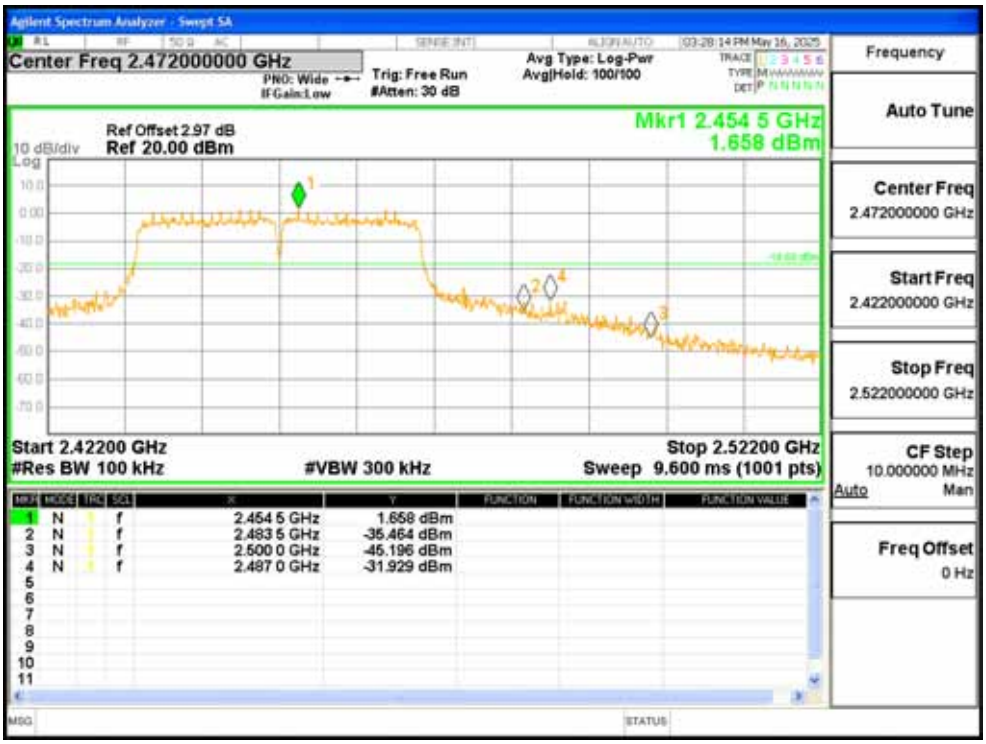
Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



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Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-40.77	-20	Pass
		2437		-41.06	-20	Pass
		2462		-39.53	-20	Pass
	g	2412		-36.62	-20	Pass
		2437		-37.05	-20	Pass
		2462		-37.33	-20	Pass
	n20	2412		-38.78	-20	Pass
		2437		-37.76	-20	Pass
		2462		-38.03	-20	Pass
	n40	2422		-35.42	-20	Pass
		2437		-35.34	-20	Pass
		2452		-35.45	-20	Pass

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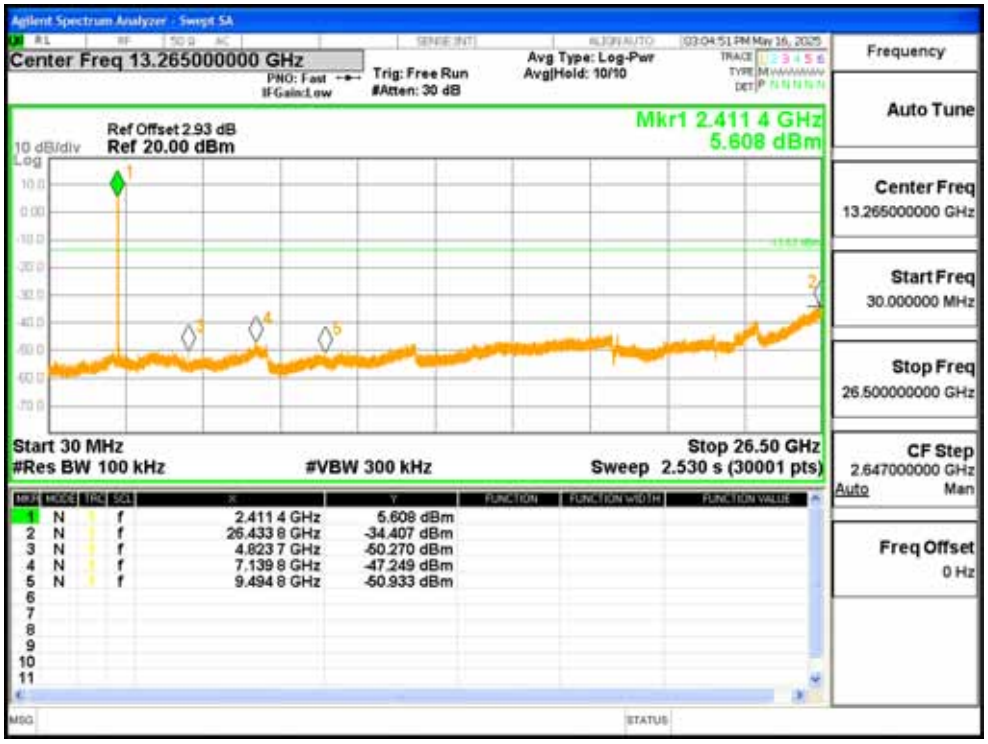
Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref

Tx. Spurious NVNT b 2412MHz Ant1 Emission



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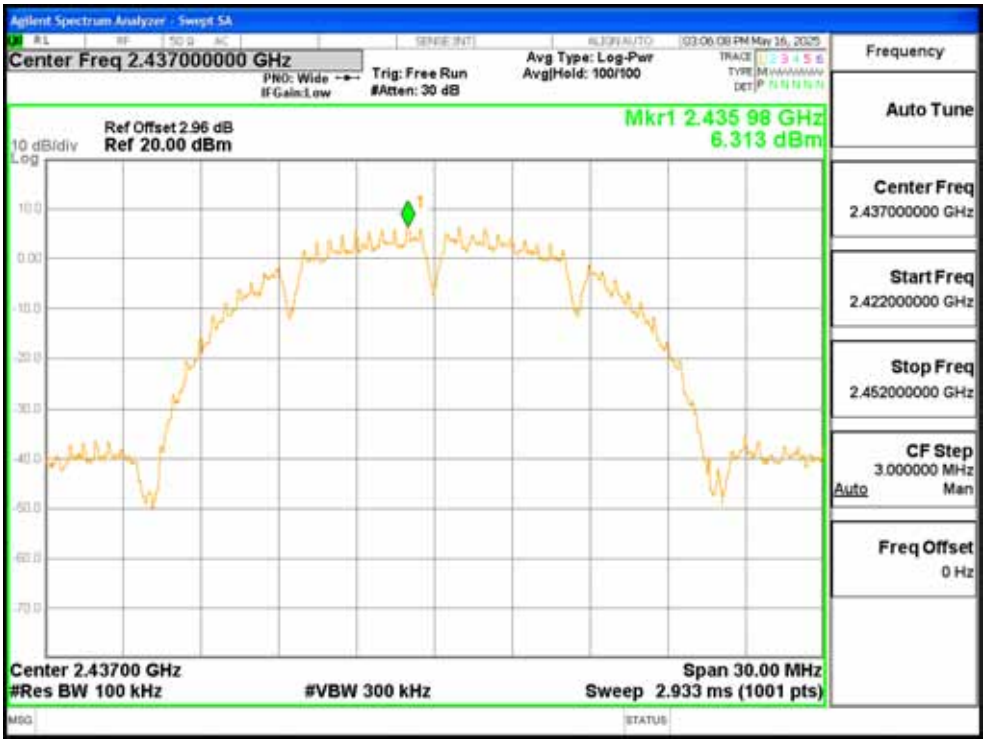
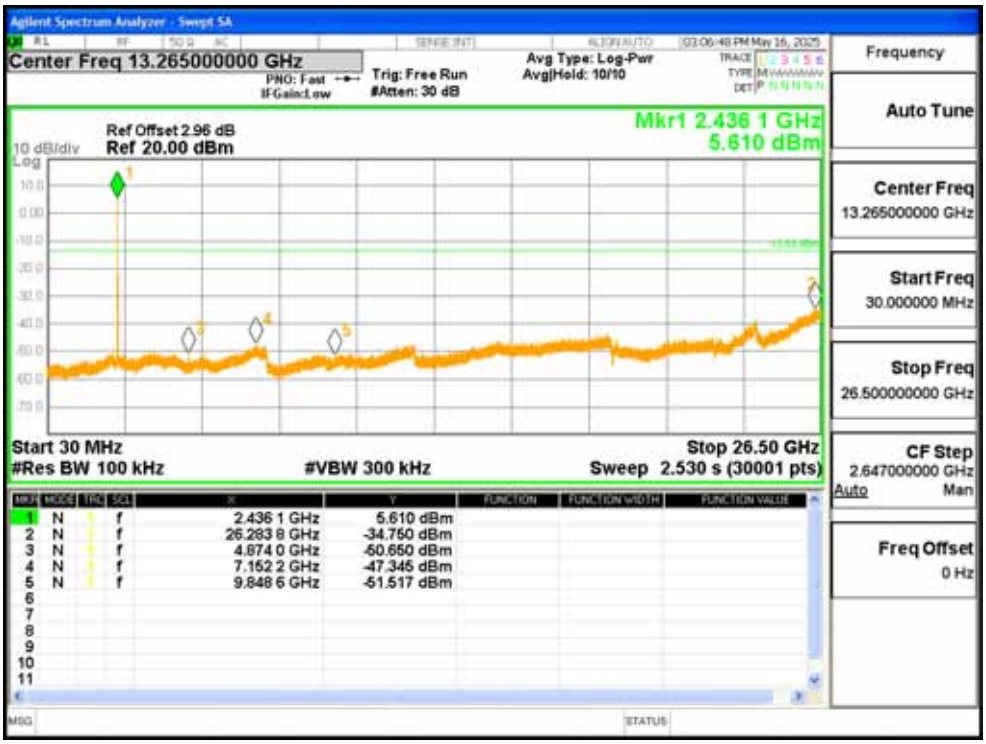
Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



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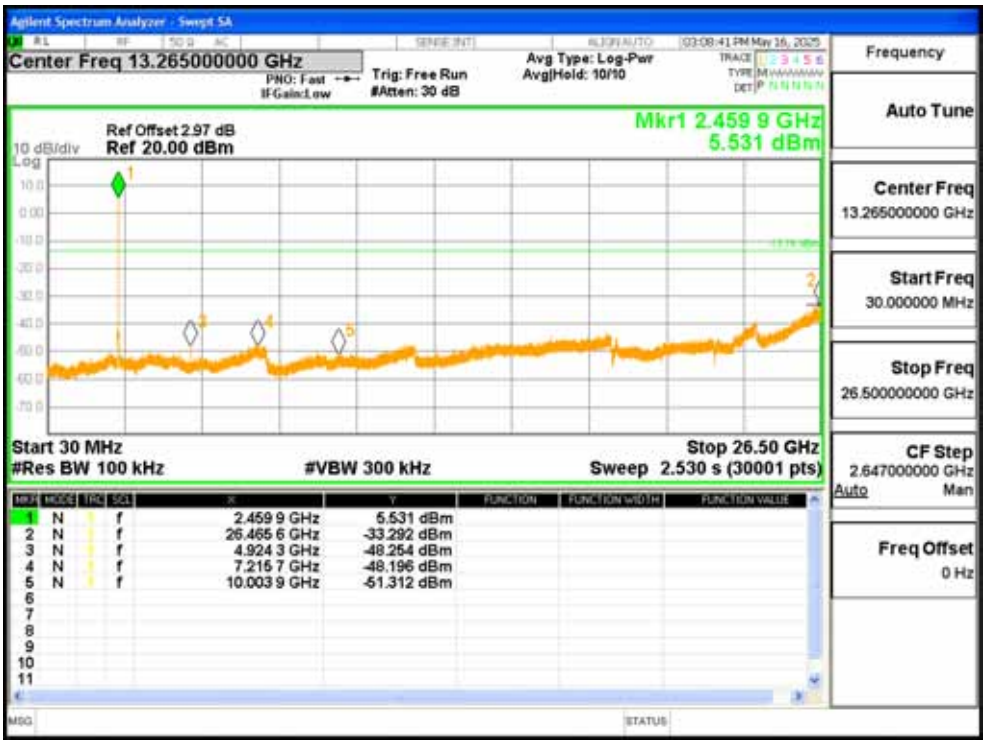
Tx. Spurious NVNT b 2462MHz Ant1 Ref

Tx. Spurious NVNT b 2462MHz Ant1 Emission



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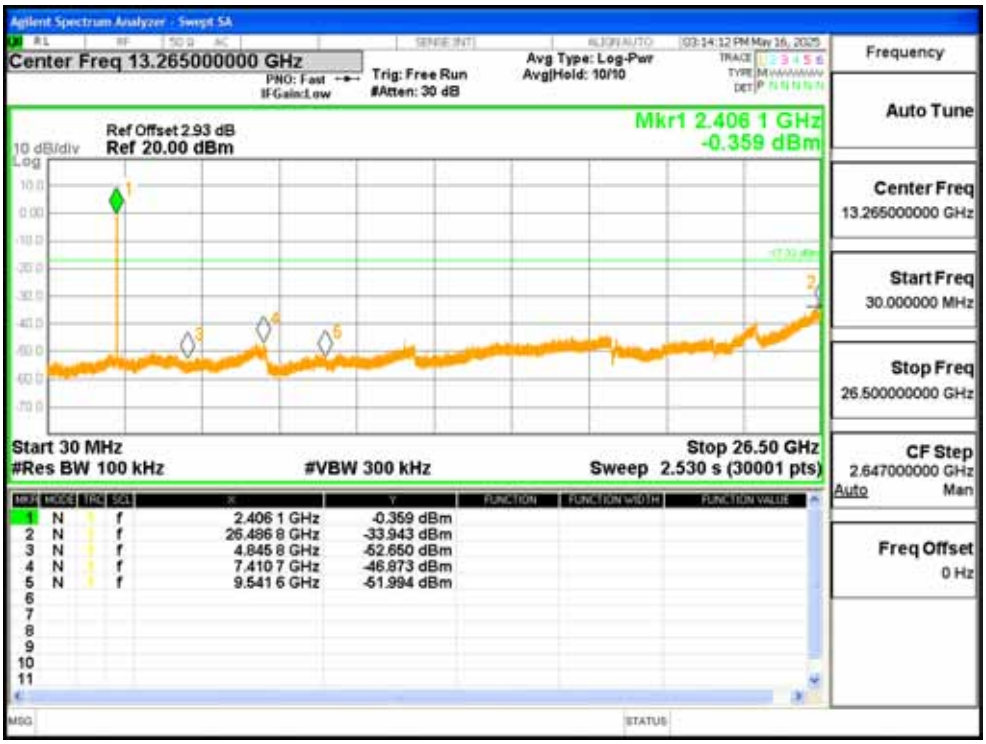
Tx. Spurious NVNT g 2412MHz Ant1 Ref

Tx. Spurious NVNT g 2412MHz Ant1 Emission



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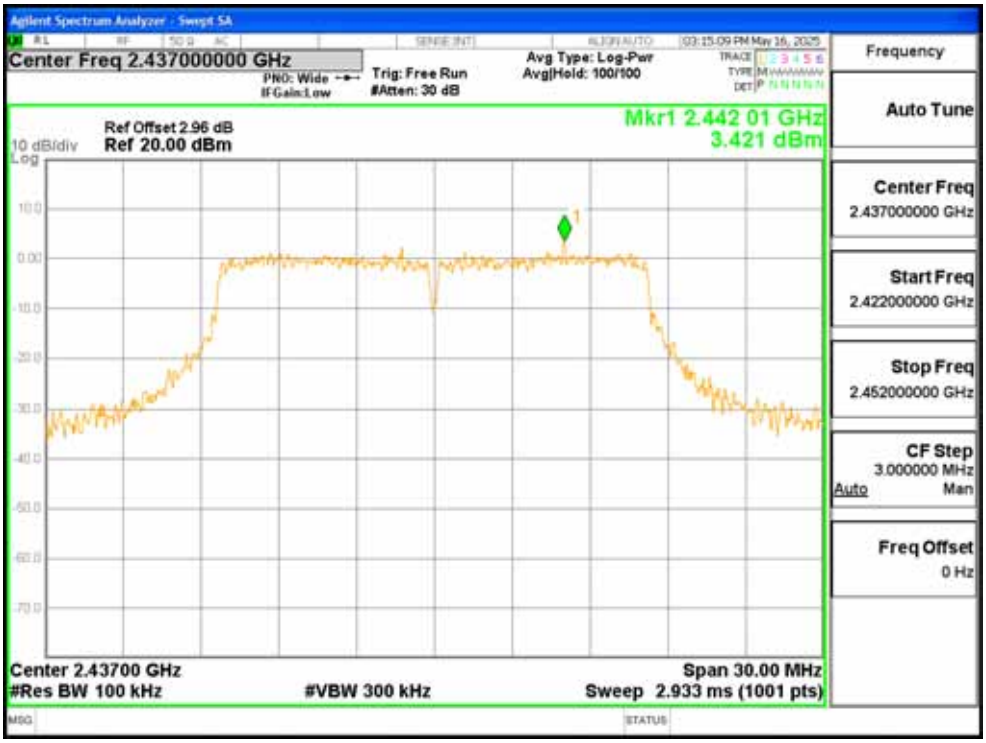

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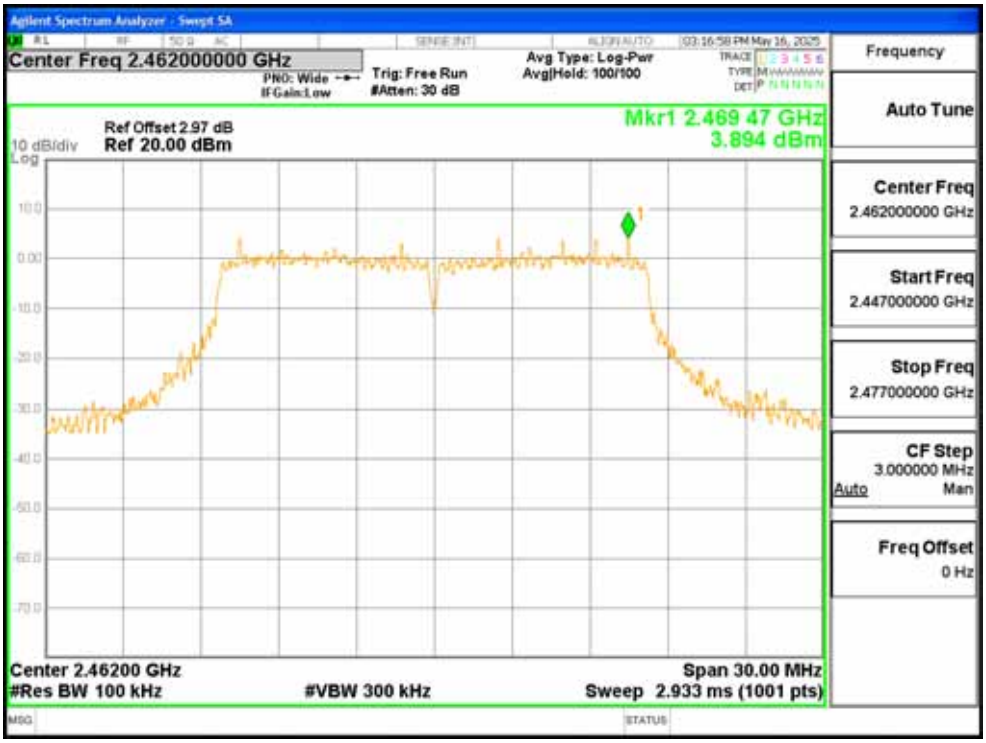
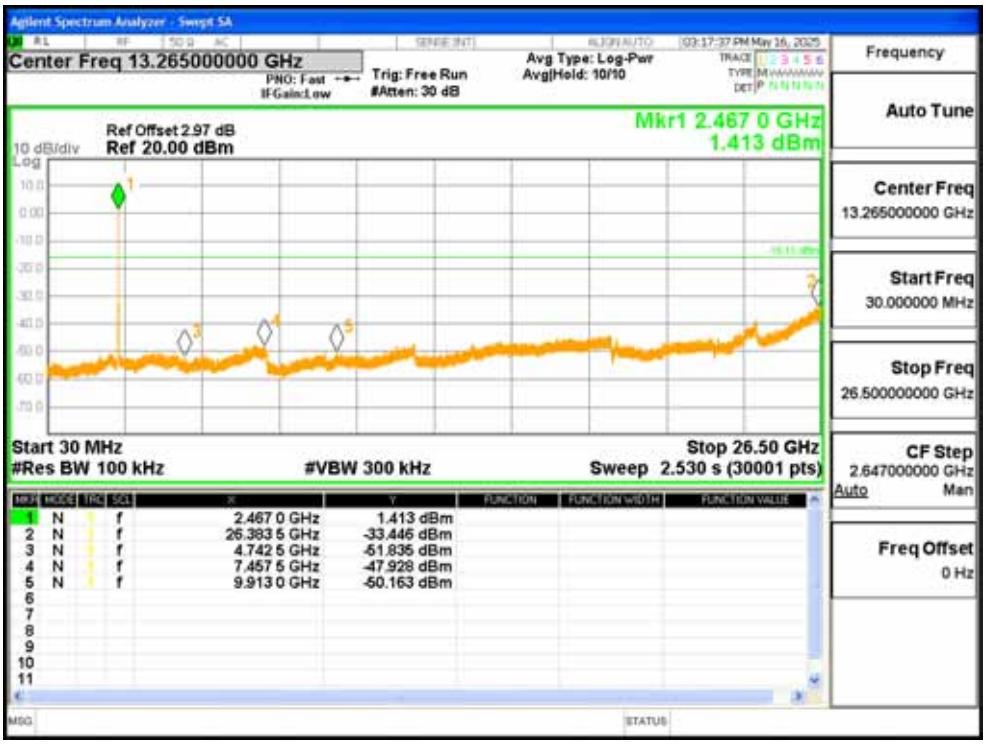


Tx. Spurious NVNT g 2462MHz Ant1 Emission



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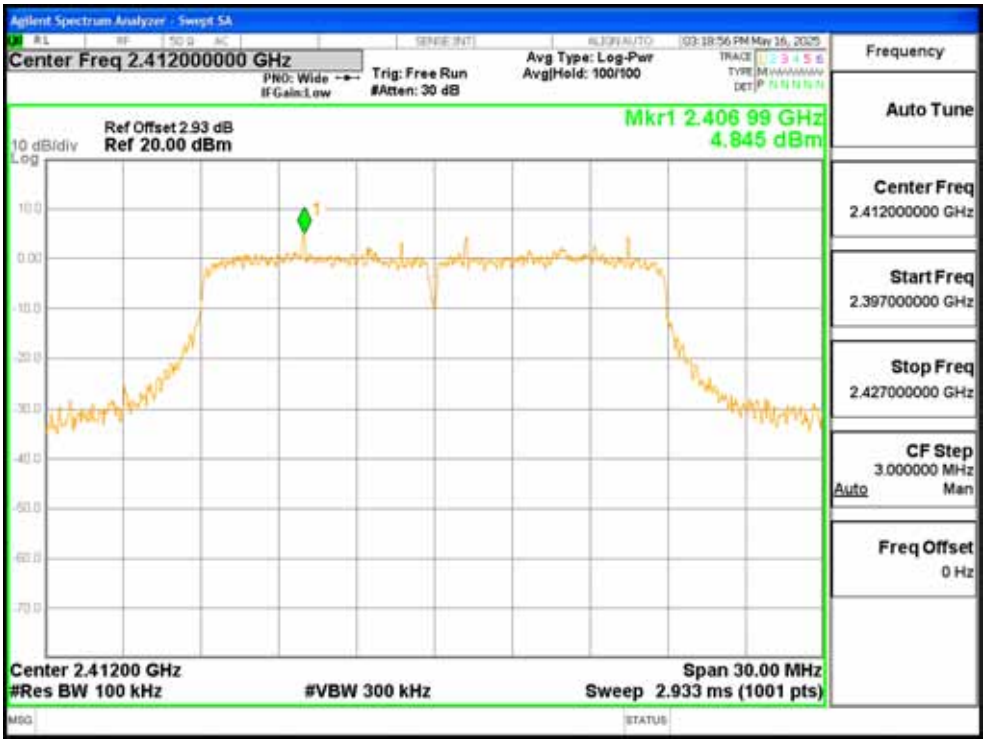
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission

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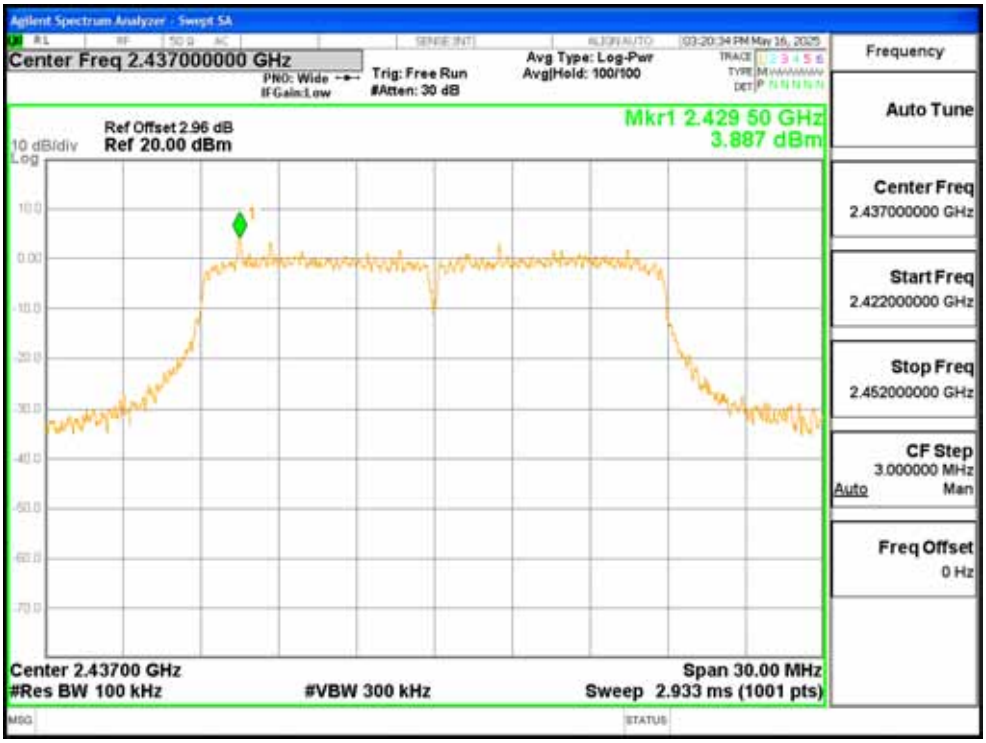
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



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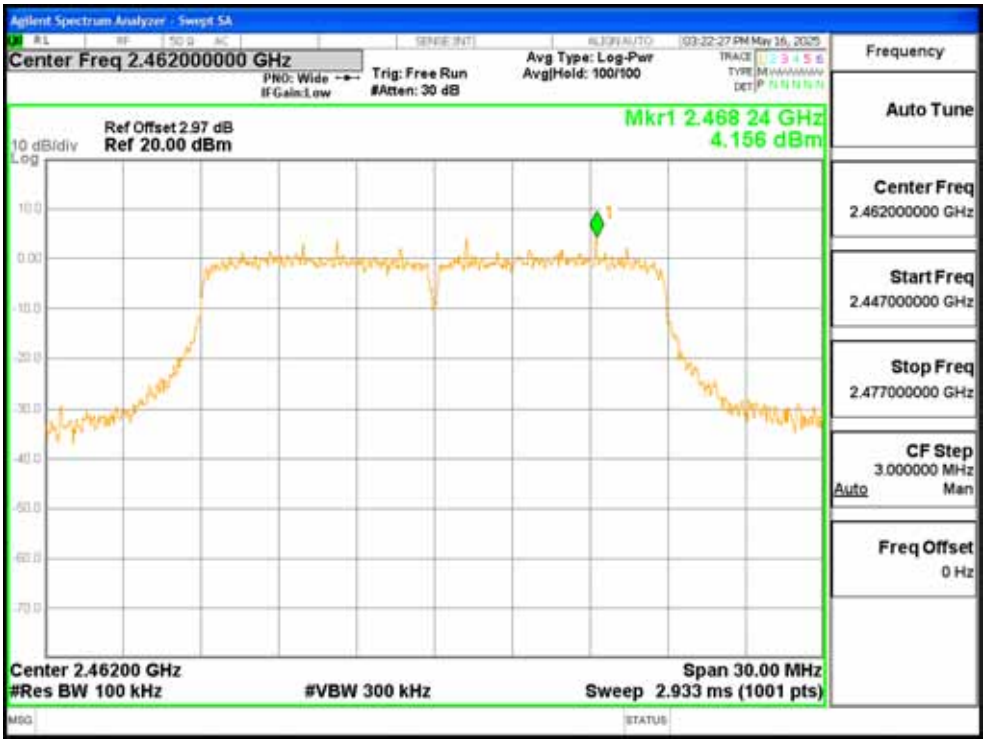
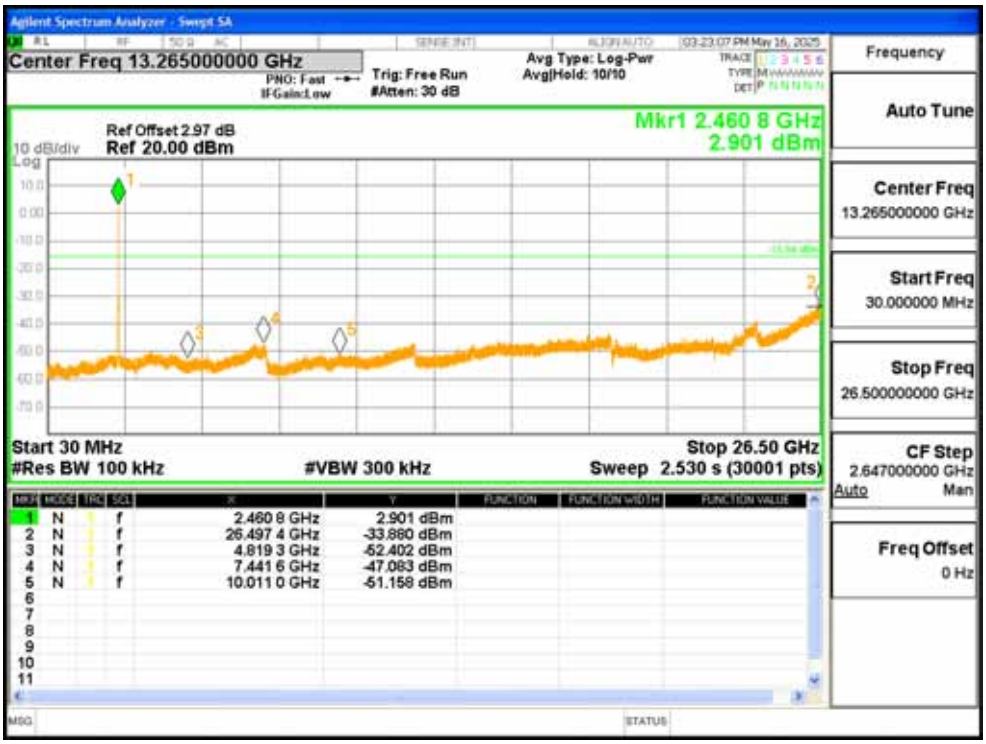


Tx. Spurious NVNT n20 2462MHz Ant1 Emission



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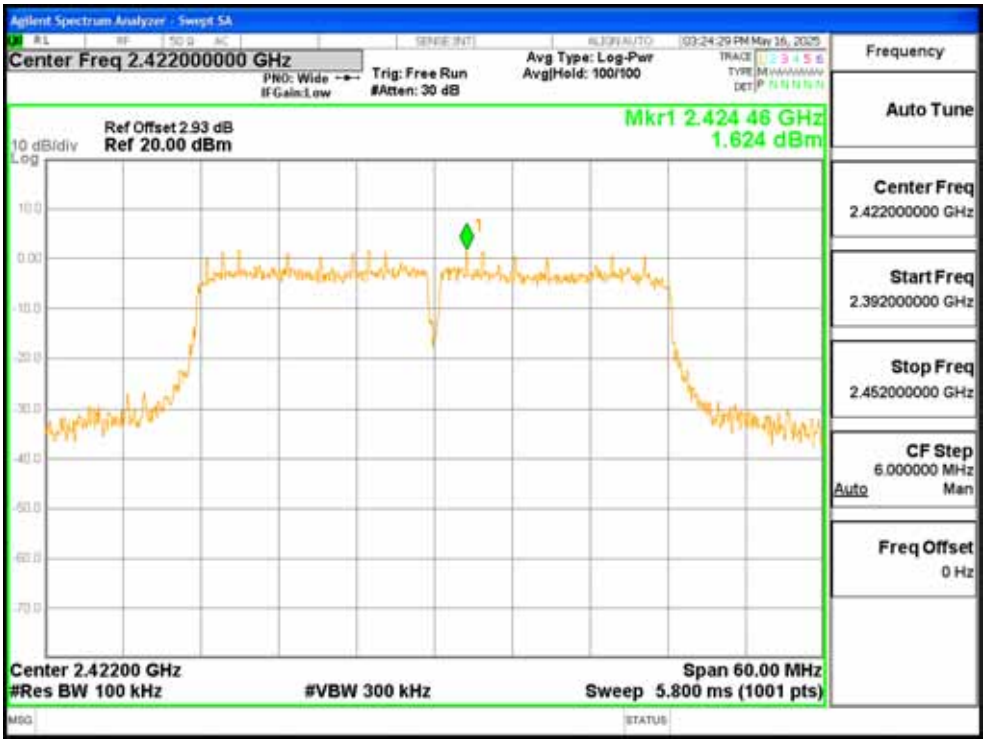
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission

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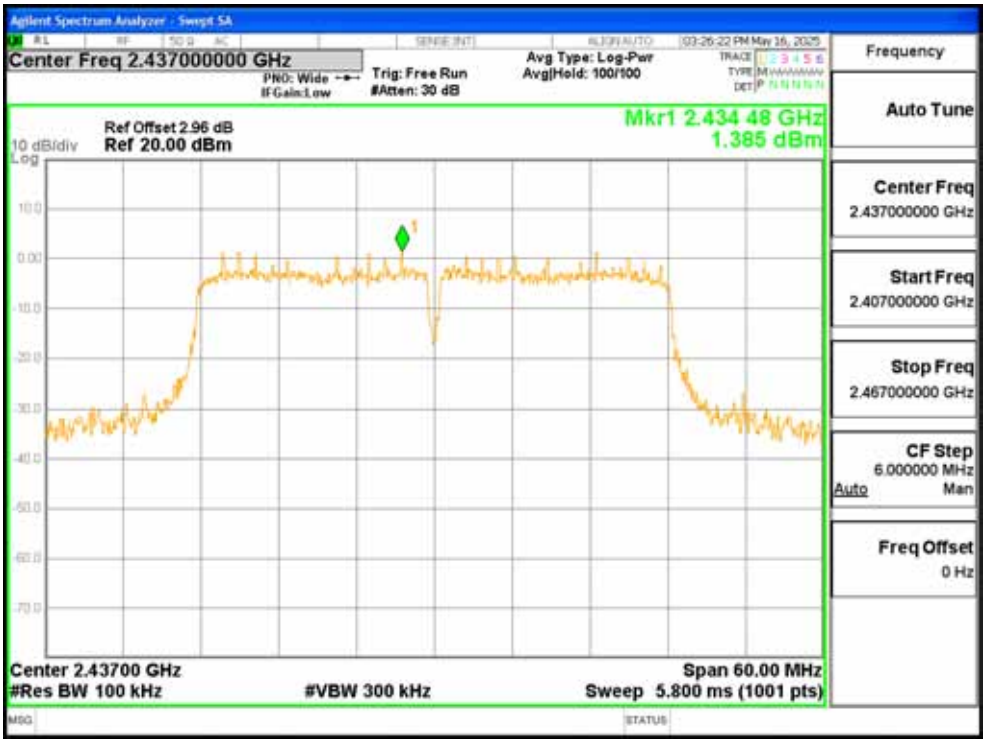
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



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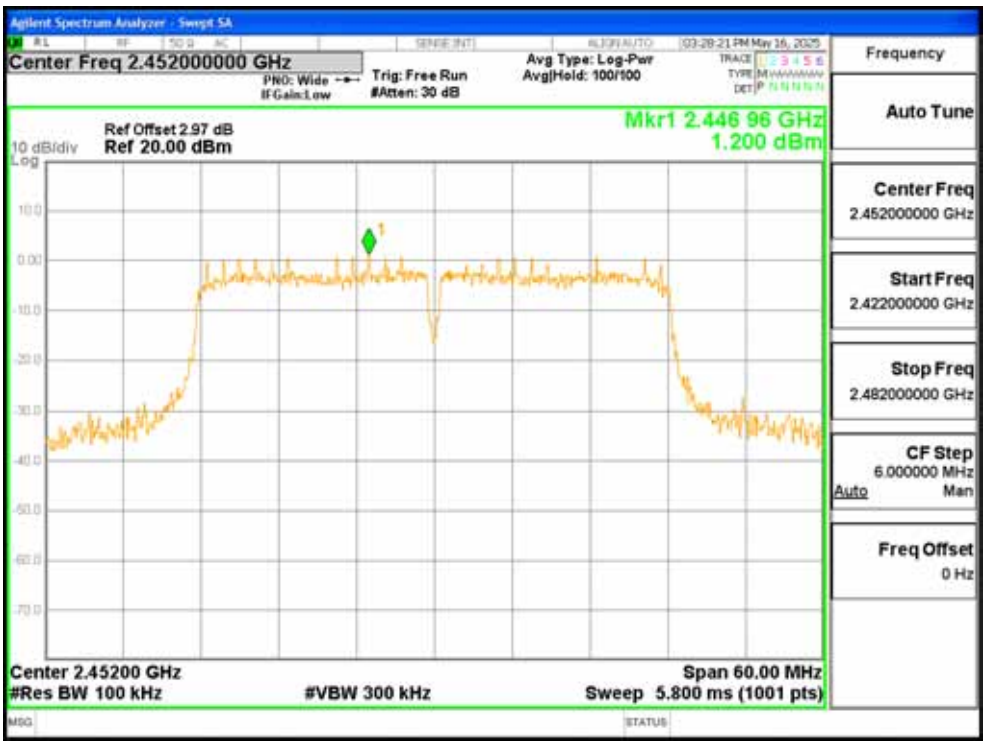
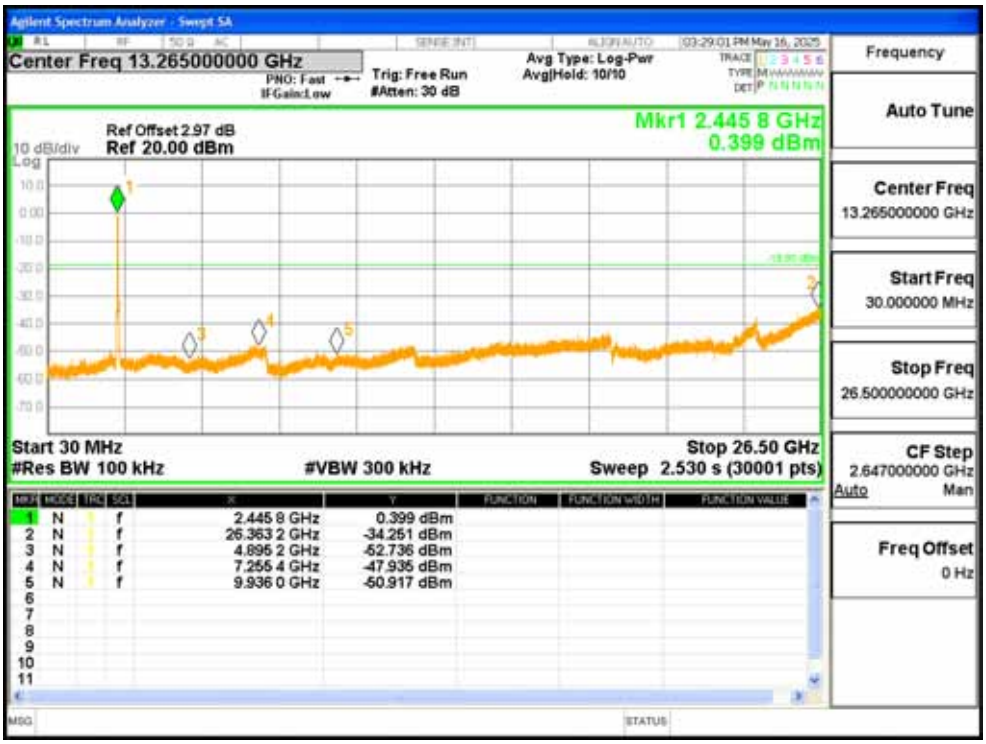
Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



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10.5 Restricted band Measurement

EUT	HD525 Agricultural Drone		Model	3WWDZ-U25A
Mode	Keeping Transmitting		Test Voltage	DC67.5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, Low Channel, Horizontal				
2390 MHz	PK (dBμV/m)	45.07	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11b mode, Low Channel, Vertical				
2390 MHz	PK (dBμV/m)	43.96	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

10.5 Restricted band Measurement

EUT	HD525 Agricultural Drone		Model	3WWDZ-U25A
Mode	Keeping Transmitting		Test Voltage	DC67.5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, High Channel, Horizontal				
2483.5 MHz	PK (dBμV/m)	48.37	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11b mode, High Channel, Vertical				
2483.5 MHz	PK (dBμV/m)	46.03	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

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10.5 Restricted band Measurement

EUT	HD525 Agricultural Drone			Model	3WWDZ-U25A
Mode	Keeping Transmitting			Test Voltage	DC67.5V
Temperature	24 deg. C,			Humidity	56% RH
Test Result:	Pass			Detector	PK
802.11g mode, Low Channel, Horizontal					
2390 MHz	PK (dBμV/m)	46.57	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	
802.11g mode, Low Channel, Vertical					
2390 MHz	PK (dBμV/m)	44.90	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	

10.5 Restricted band Measurement

EUT	HD525 Agricultural Drone			Model	3WWDZ-U25A
Mode	Keeping Transmitting			Test Voltage	DC67.5V
Temperature	24 deg. C,			Humidity	56% RH
Test Result:	Pass			Detector	PK
802.11g mode, High Channel, Horizontal					
2483.5 MHz	PK (dBμV/m)	55.15	Limit	74(dBμV/m)	
	AV (dBμV/m)	38.76		54(dBμV/m)	
802.11g mode, High Channel, Vertical					
2483.5 MHz	PK (dBμV/m)	52.70	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	

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10.5 Restricted band Measurement

EUT	HD525 Agricultural Drone			Model	3WWDZ-U25A
Mode	Keeping Transmitting			Test Voltage	DC67.5V
Temperature	24 deg. C,			Humidity	56% RH
Test Result:	Pass			Detector	PK
802.11n HT20 mode, Low Channel, Horizontal					
2390 MHz	PK (dBμV/m)	47.25	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	
802.11n HT20 mode, Low Channel, Vertical					
2390 MHz	PK (dBμV/m)	44.87	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	

10.5 Restricted band Measurement

EUT	HD525 Agricultural Drone			Model	3WWDZ-U25A
Mode	Keeping Transmitting			Test Voltage	DC67.5V
Temperature	24 deg. C,			Humidity	56% RH
Test Result:	Pass			Detector	PK
802.11n HT20 mode, High Channel, Horizontal					
2483.5 MHz	PK (dBμV/m)	55.15	Limit	74(dBμV/m)	
	AV (dBμV/m)	38.76		54(dBμV/m)	
802.11n HT20 mode, High Channel, Vertical					
2483.5 MHz	PK (dBμV/m)	53.21	Limit	74(dBμV/m)	
	AV (dBμV/m)	36.95		54(dBμV/m)	

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10.5 Restricted band Measurement

EUT	HD525 Agricultural Drone		Model	3WWDZ-U25A
Mode	Keeping Transmitting		Test Voltage	DC67.5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT40 mode, Low Channel, Horizontal				
2390	PK (dBμV/m)	49.51	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11n HT40 mode, Vertical				
2390	PK (dBμV/m)	47.73	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

10.5 Restricted band Measurement

EUT	HD525 Agricultural Drone		Model	3WWDZ-U25A
Mode	Keeping Transmitting		Test Voltage	DC67.5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT40 mode, High Channel, Horizontal				
2483.5	PK (dBμV/m)	59.31	Limit	74(dBμV/m)
	AV (dBμV/m)	43.67		54(dBμV/m)
802.11n HT40 mode, Low Channel, Horizontal				
2483.5	PK (dBμV/m)	56.18	Limit	74(dBμV/m)
	AV (dBμV/m)	40.29		54(dBμV/m)

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11.0 Antenna Requirement

11.1 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 mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

PCB antenna used. The gain of the antennas is 3.46dBi maximum. (Get from the antenna specification provided the applicant)

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12.0 FCC ID Label

FCC ID: 2BBNT-3WWDZ-U25A

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:

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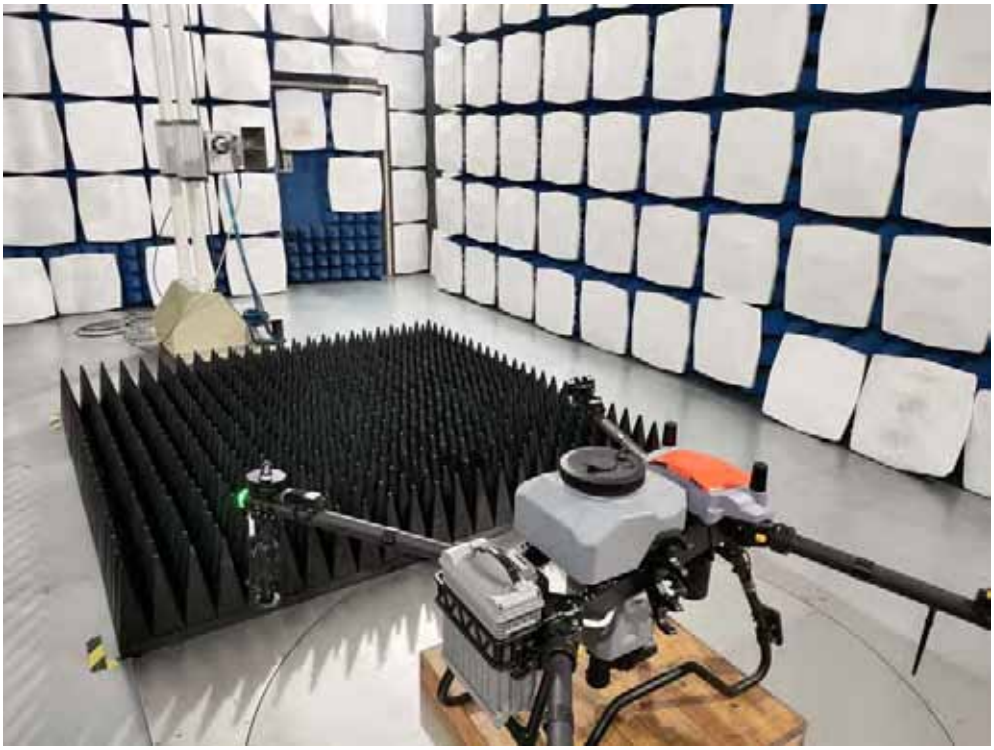
13.0 Photo of testing

Conducted Emission Test Setup:

N/A

Radiated Emission Test Setup:



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Photographs – EUT Outside View

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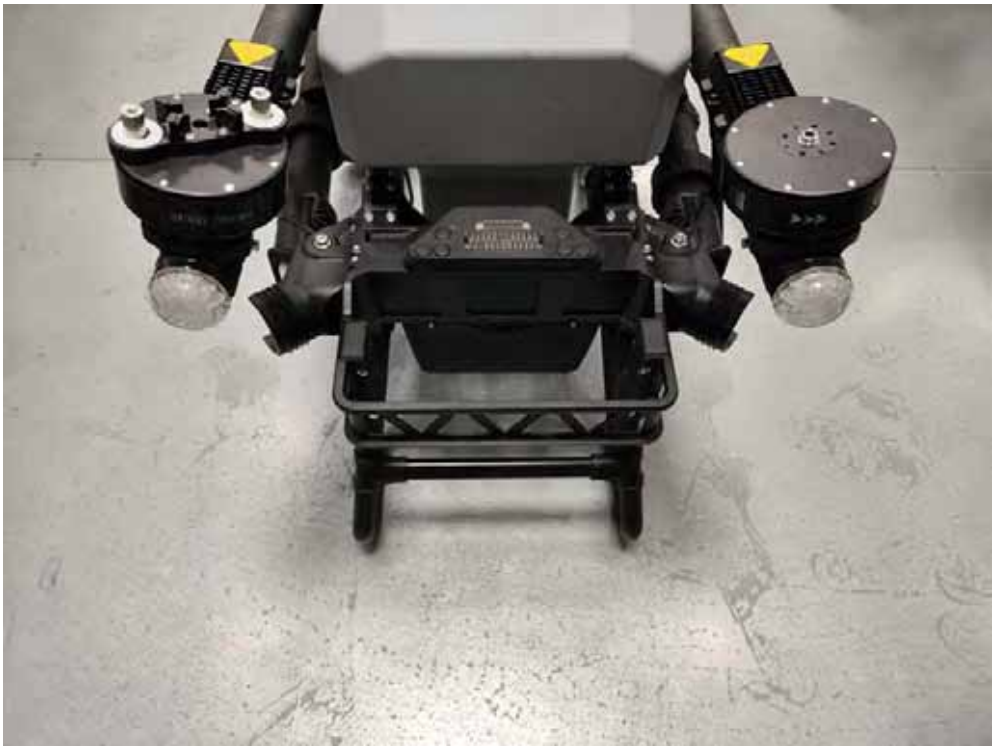

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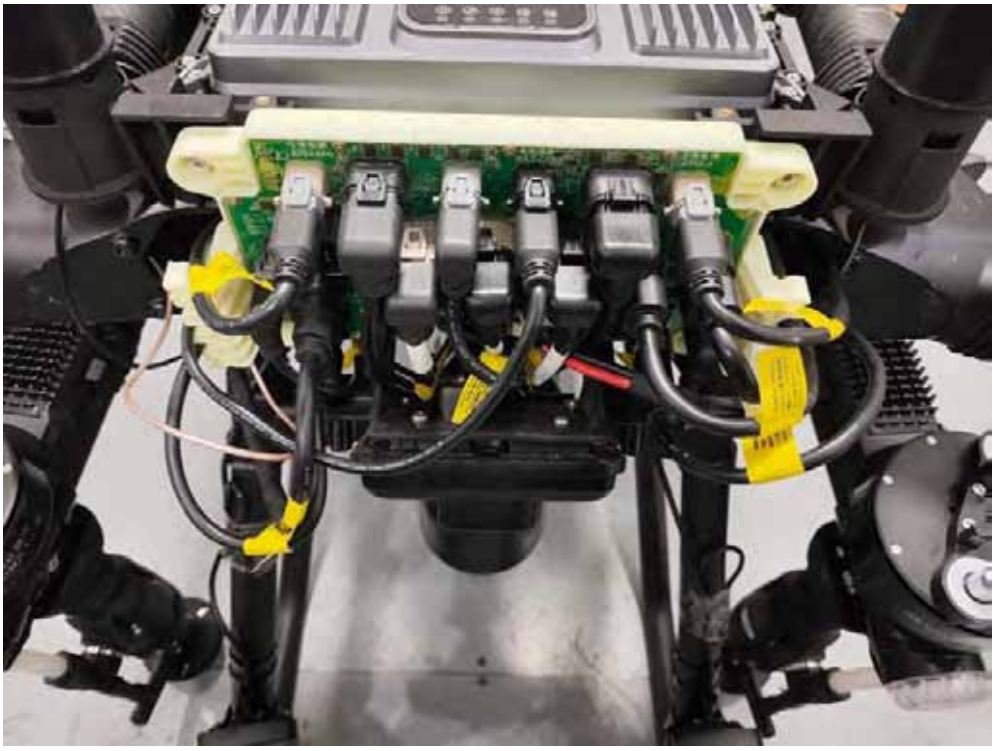

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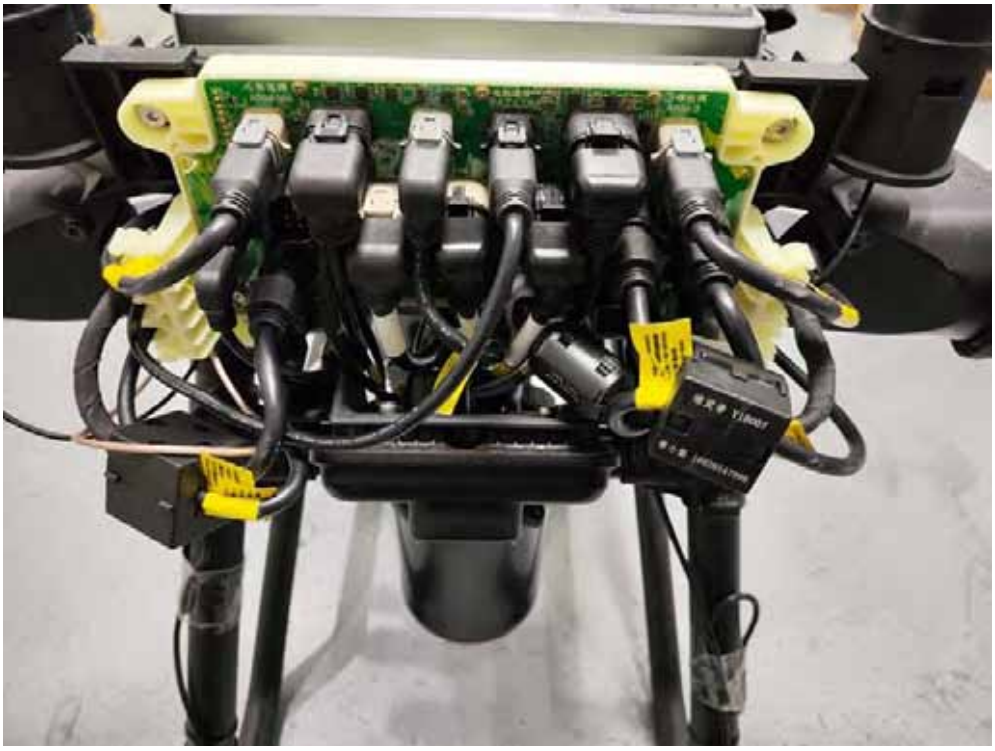

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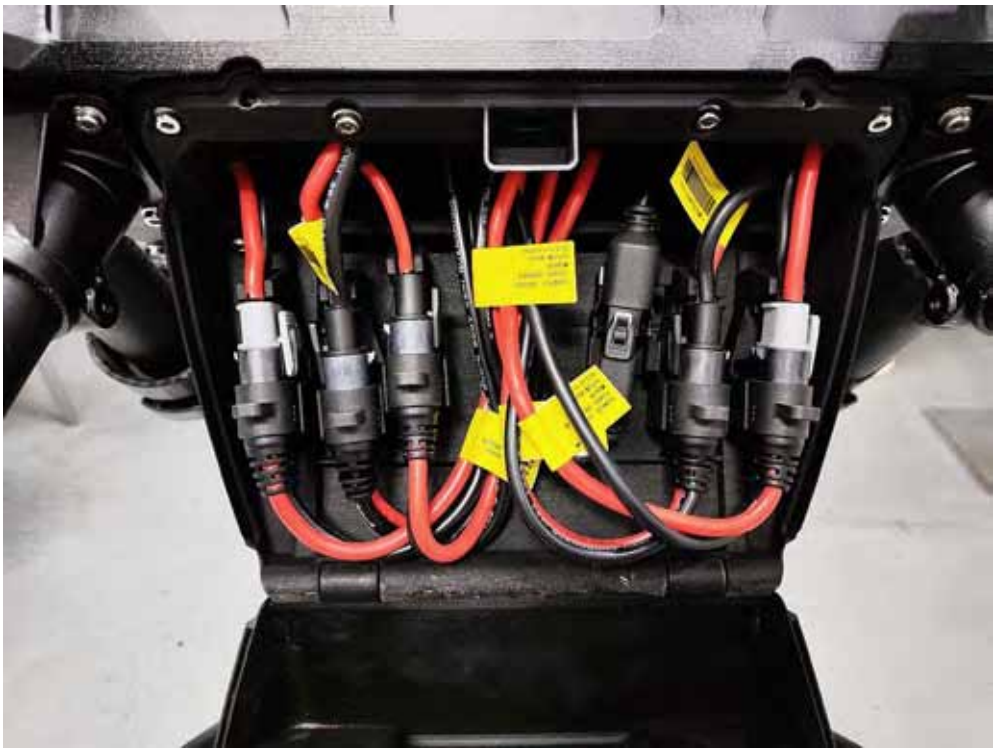

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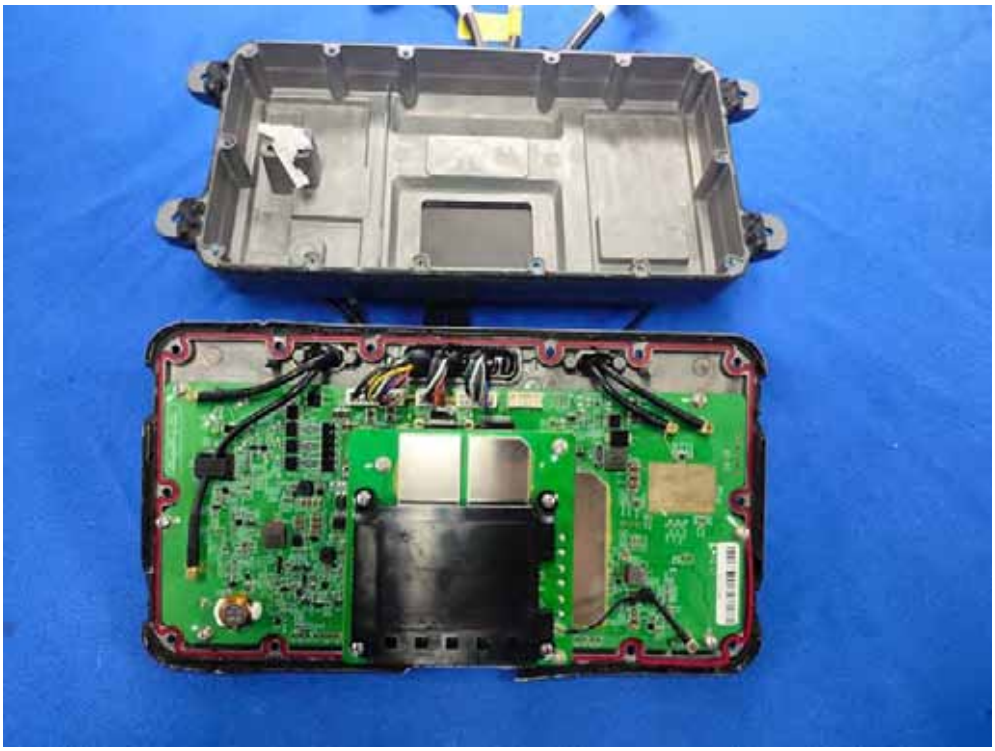

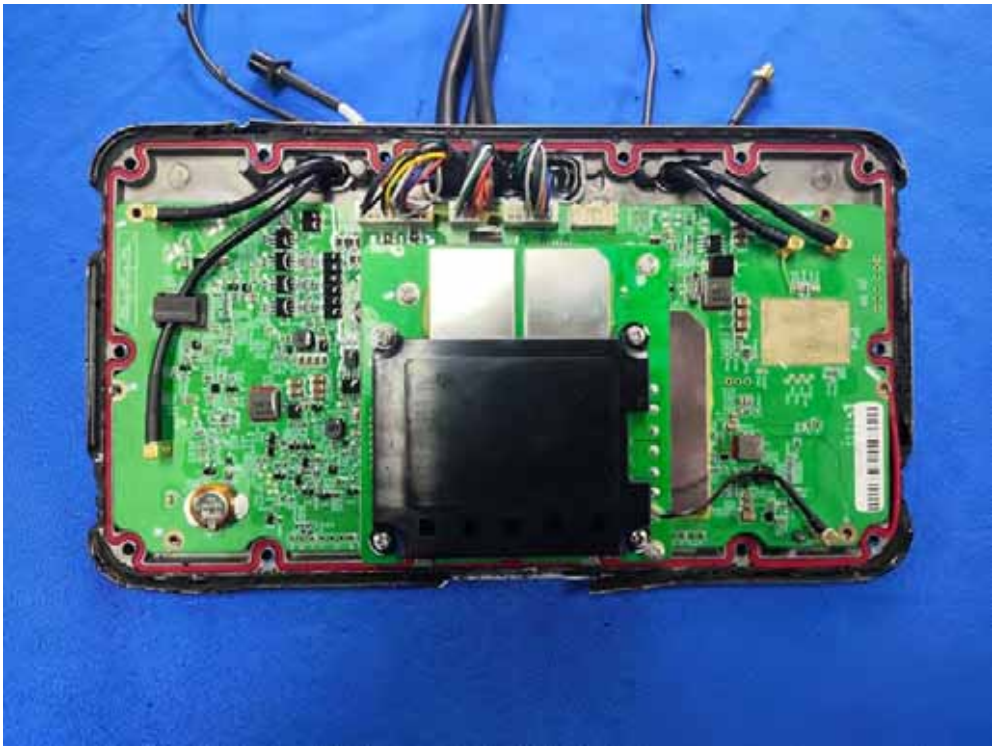

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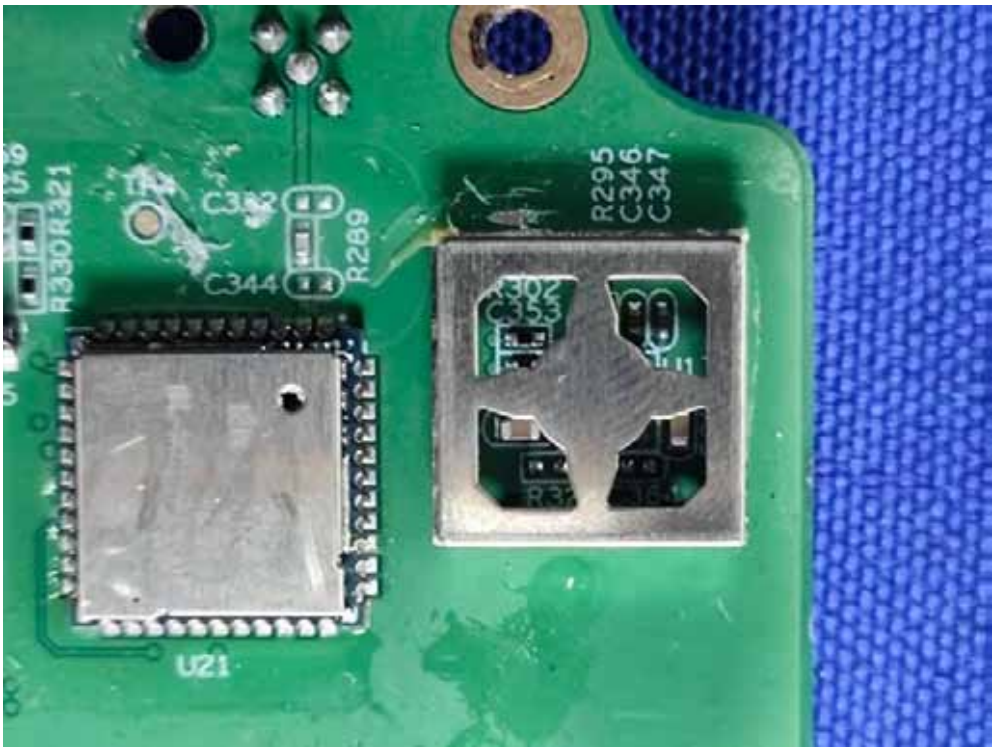

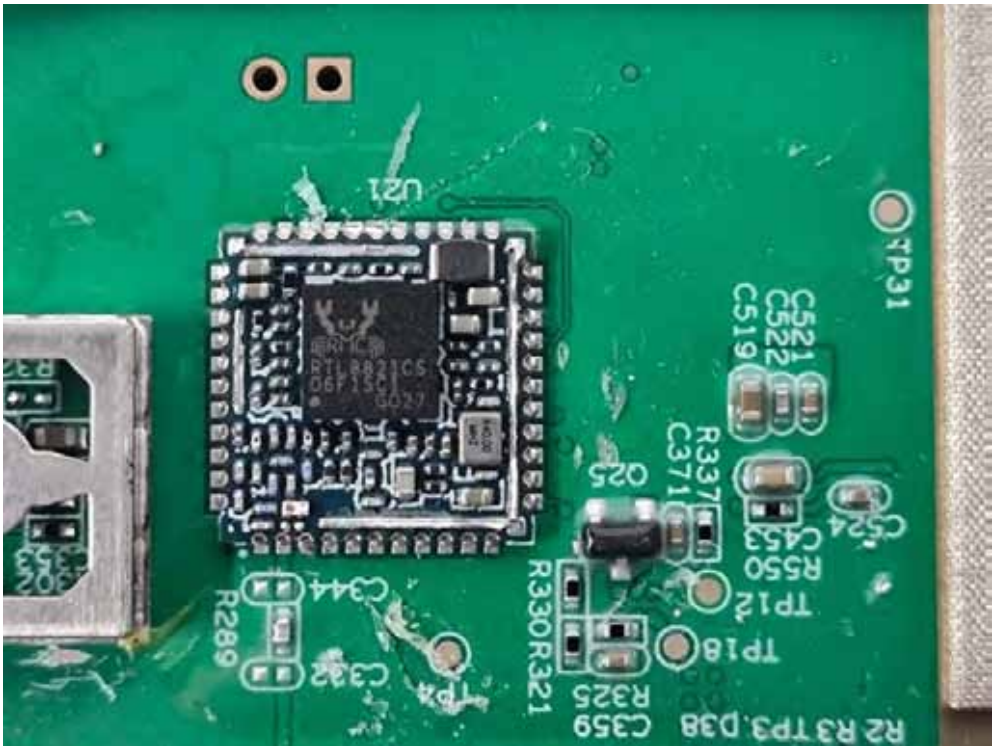

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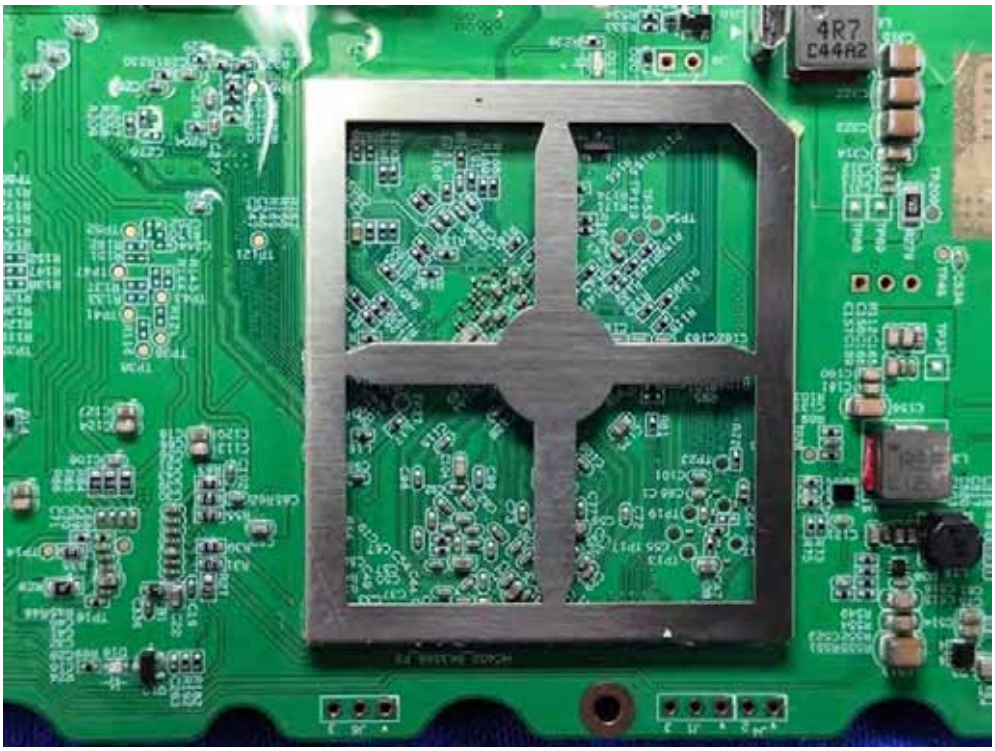

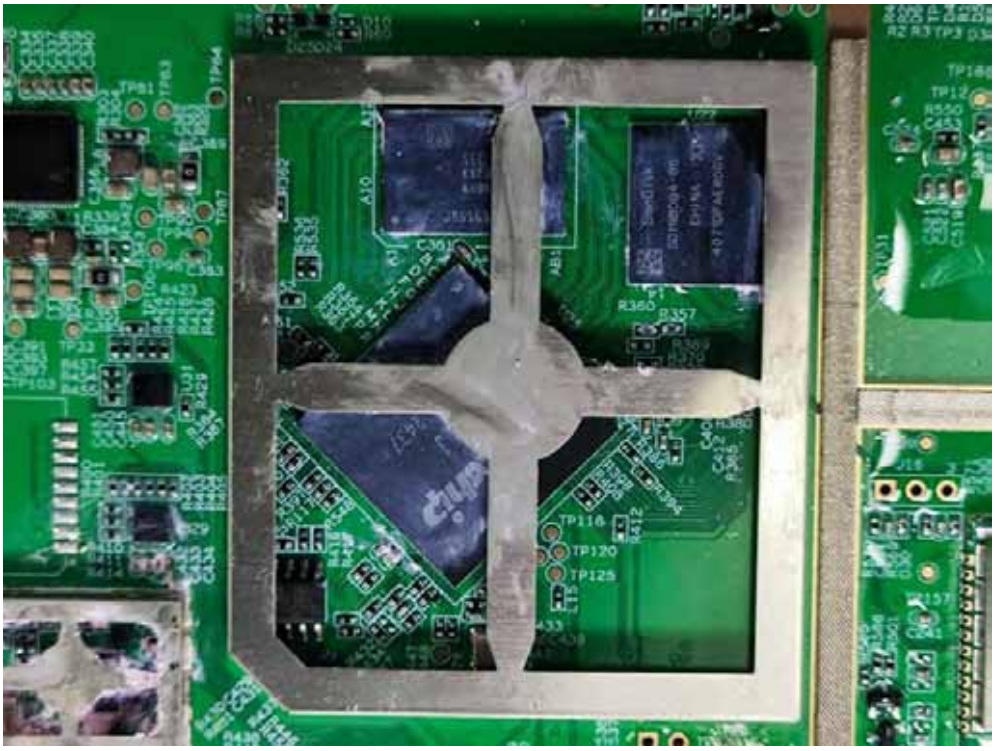

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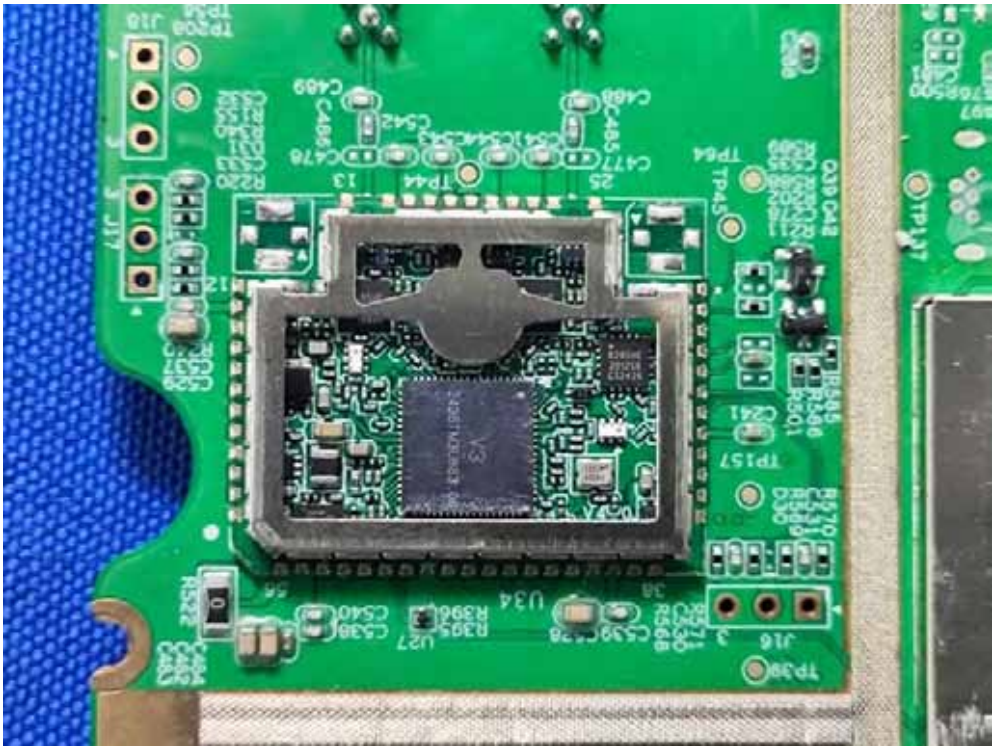

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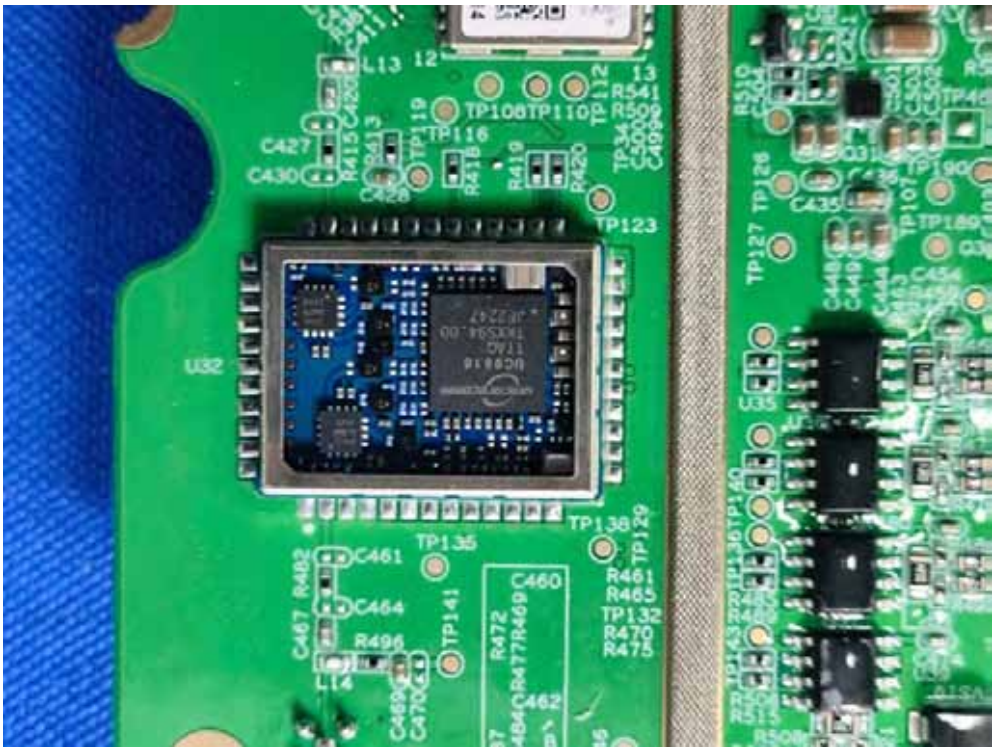

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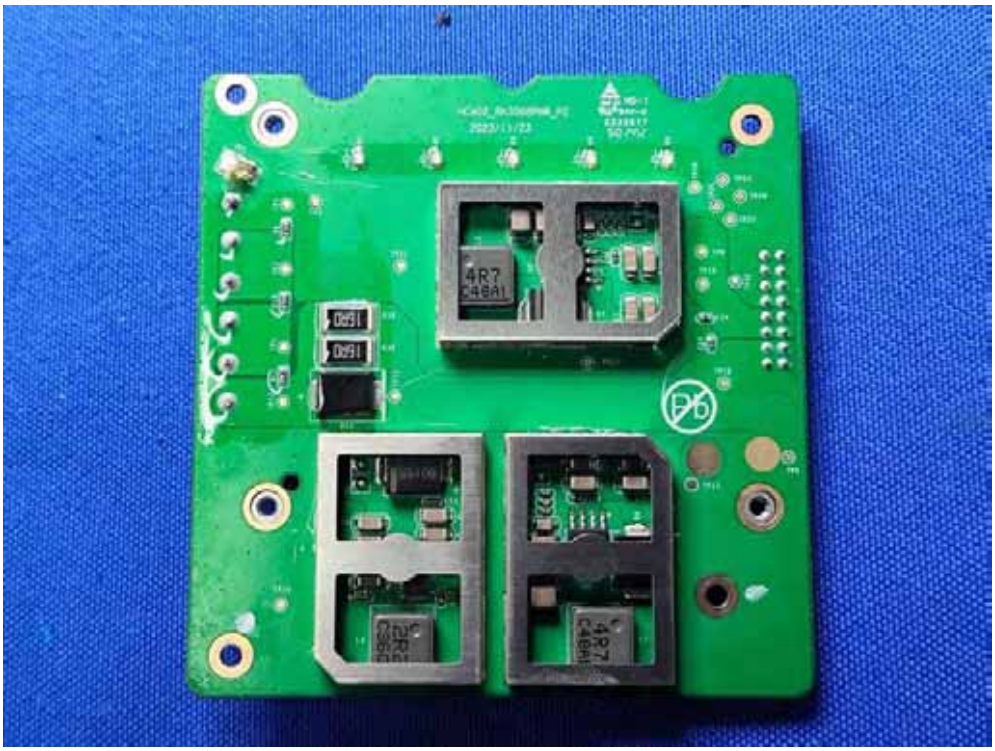

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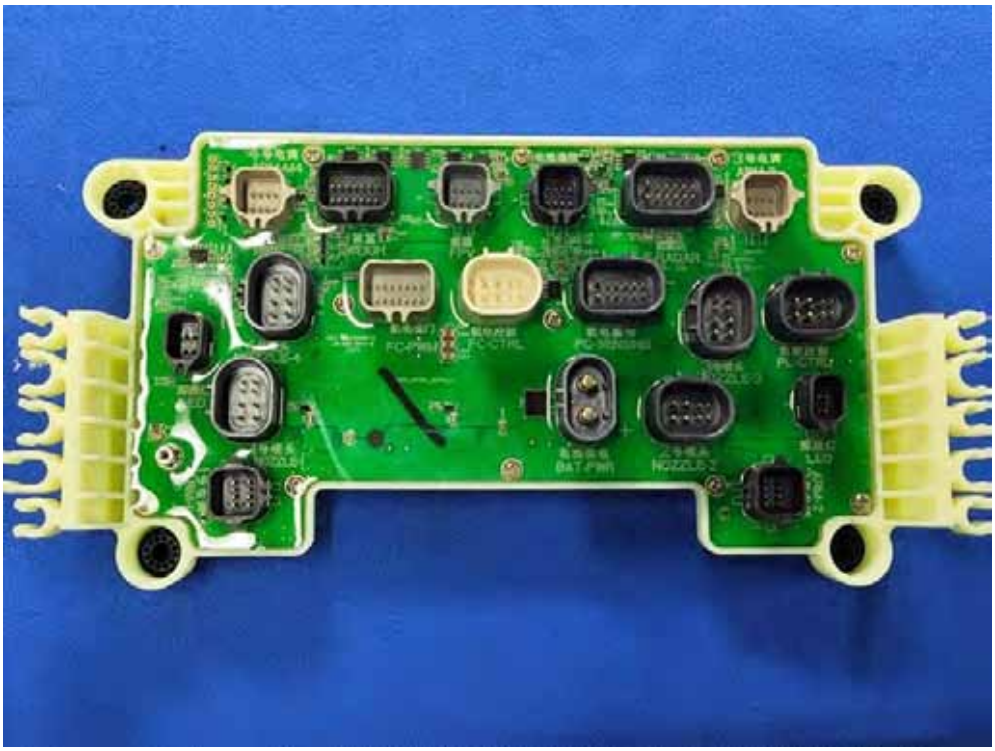

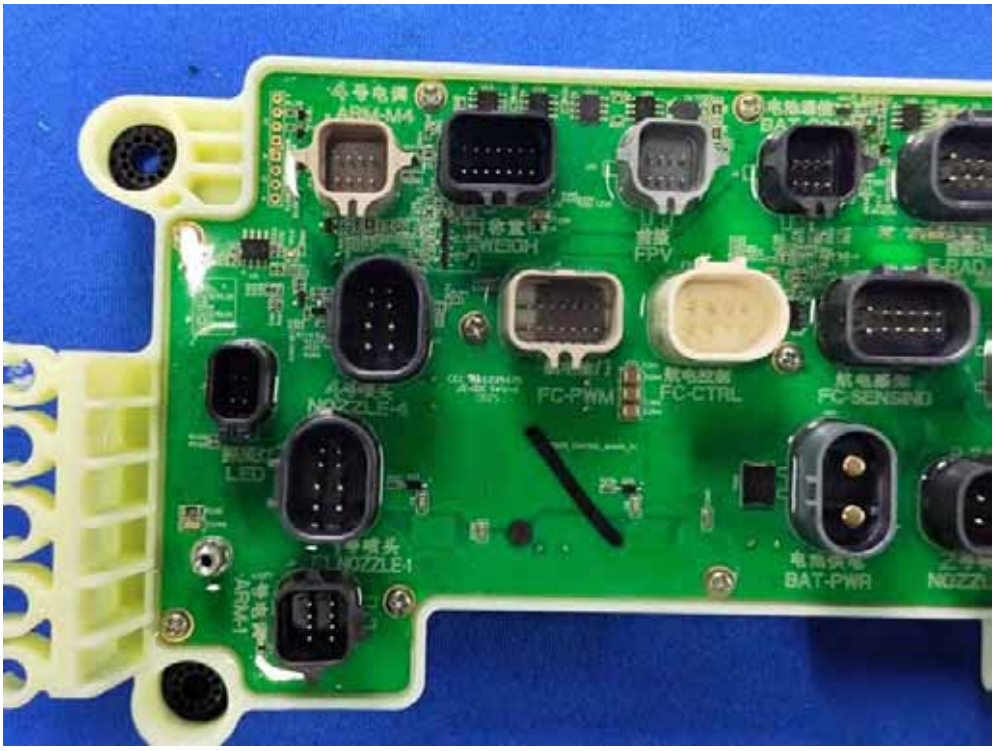

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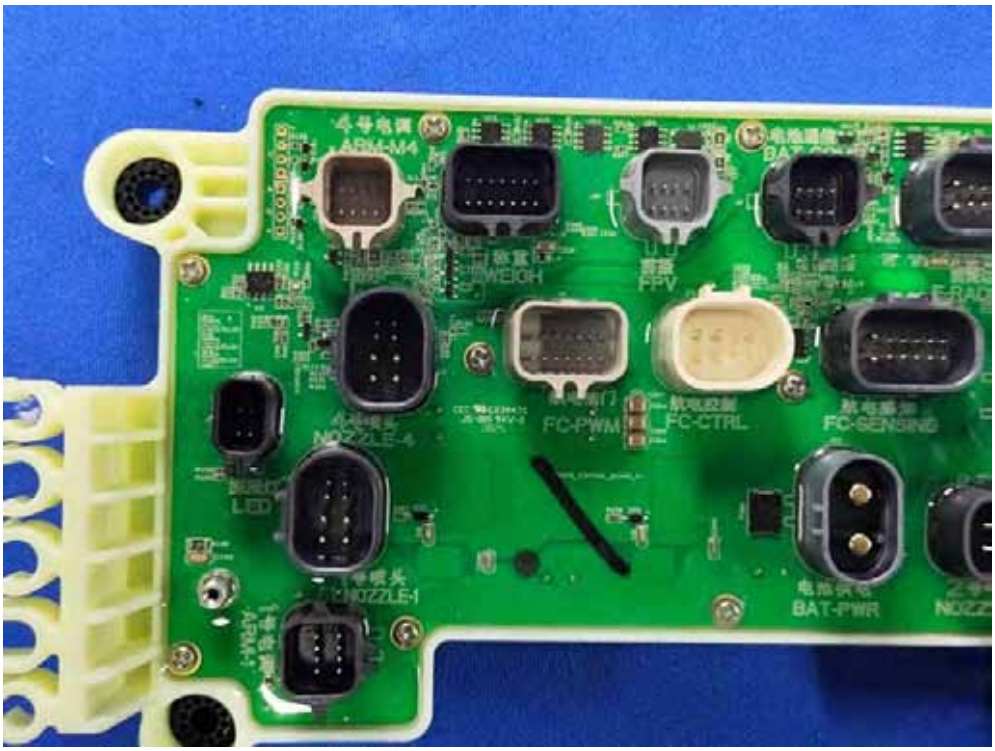

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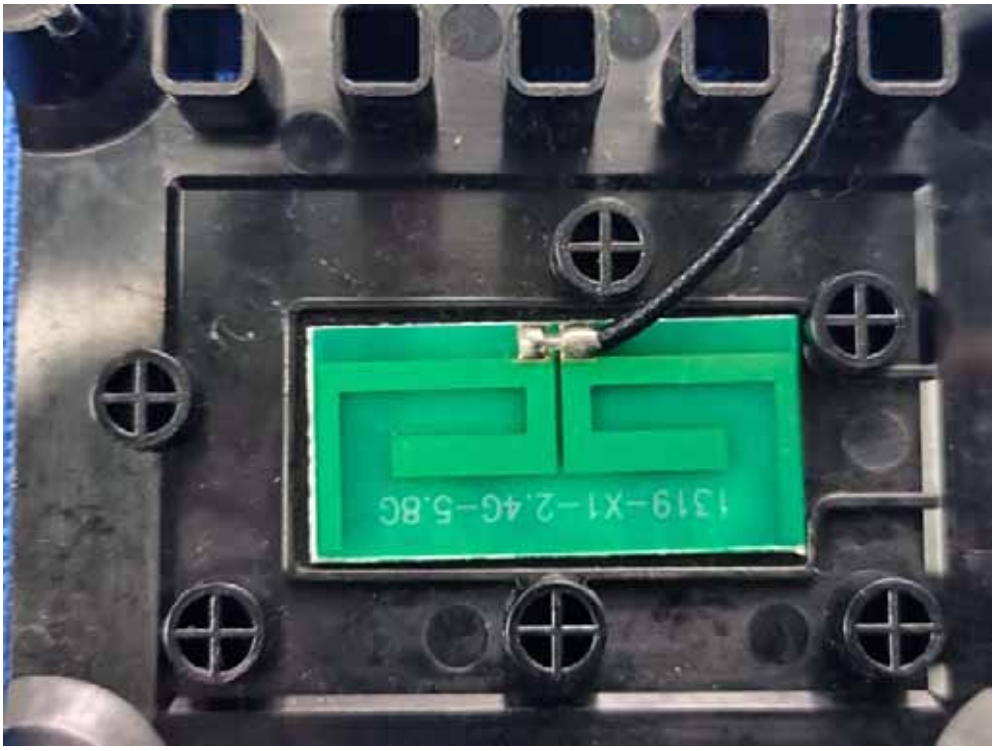
Inside View-WIFI Antenna



-End of the report-

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