



FCC TEST REPORT

FCC ID: 2BFDX-E6

On Behalf of

Shenzhen Yadas IOT Technology Co., Ltd

Solar WiFi Extender

Model No.: E6, E6 Plus, E6 Pro, E8, E8 Plus, E8 Pro, E9, E9 Plus,
E9 Pro, E10, E10 Plus, E10 Pro, E12, E12 Plus, E12 Pro

Prepared for : Shenzhen Yadas IOT Technology Co., Ltd
Address : Room 511, Building A, Tengjun Science and Technology Park,
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Prepared By : Shenzhen PSI Testing Co., Ltd.
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TEST REPORT DECLARATION

Applicant : Shenzhen Yadas IOT Technology Co., Ltd
Address : Room 511, Building A, Tengjun Science and Technology Park, XinAn St, BaoAn District, Shenzhen, Guangdong Province, China
Manufacturer : Shenzhen Yadas IOT Technology Co., Ltd
Address : Room 511, Building A, Tengjun Science and Technology Park, XinAn St, BaoAn District, Shenzhen, Guangdong Province, China
EUT Description : Solar WiFi Extender
(A) Model No. : E6, E6 Plus, E6 Pro, E8, E8 Plus, E8 Pro, E9, E9 Plus, E9 Pro, E10, E10 Plus, E10 Pro, E12, E12 Plus, E12 Pro
(B) Trademark : N/A

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247

ANSI C63.10-2020

Test Result: PASS

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC Part 15C requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....:	Jensen Wang Test Engineer	
Approved by (name + signature).....:	Simple Guan Project Manager	
Date of issue.....:	January 5, 2026	

Revision History

Revision	Issue Date	Revisions	Revised By
V0	January 5, 2026	Initial released Issue	Jensen Wang

1. Summary Of Standards And Results

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Test Item	Standards Paragraph	Result
Conducted Emission	FCC Part 15: 15.207 ANSI C63.10-2020	P
6dB Bandwidth	FCC PART 15:15.247(a)(2), ANSI C63.10-2020	P
Output Power	FCC Part 15: 15.247(b)(3), ANSI C63.10-2020	P
Radiated Spurious Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d), ANSI C63.10-2020	P
Conducted Spurious & Band Edge Emission	FCC Part 15: 15.247(d), ANSI C63.10-2020	P
Power Spectral Density	FCC PART 15:15.247(e), ANSI C63.10-2020	P
Radiated Band Edge Emission	FCC Part 15: 15.247(d), ANSI C63.10-2020	P
Antenna Requirement	FCC Part 15: 15.203	P

Note: 1. P is an abbreviation for Pass.

2. F is an abbreviation for Fail.

3. N/A is an abbreviation for Not Applicable.

4. Conclusion determination rules of this report: Unless there are clear provisions on measurement uncertainty in the standard or customer requirements, decision by actual test data without considering measurement uncertainty.

5. Measurement method usage KDB 558074 D01 15.247 Meas Guidance v05r02.

2. General Information

2.1. Description of Device (EUT)

Product Name	: Solar WiFi Extender
Model	: E6, E6 Plus, E6 Pro, E8, E8 Plus, E8 Pro, E9, E9 Plus, E9 Pro, E10, E10 Plus, E10 Pro, E12, E12 Plus, E12 Pro
Diff	: There is no difference except the name of the model. All tests are made with the E6 model.
Test Voltage	: DC 5-12V from USB, DC 3.7V from battery

Radio technology	: 2.4G WiFi
Operation frequency	: 2412MHz-2462MHz for IEEE 802.11 b, g, n/HT20 2422MHz-2452MHz for IEEE 802.11n/HT40
Channel No.	: 802.11b/802.11g/802.11n(HT20): 11CH 802.11n(HT40): 7CH
Modulation type	: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK)
Antenna Type	: External antenna, maximum gain is 4.87dBi.

PMN	: N/A
HVIN	: N/A

Software version	: N/A
Hardware version/FVIN	: N/A

Note	: Antenna information is provided by applicant. Testing lab is not responsible for the accuracy of the information. The product has two identical antennas.
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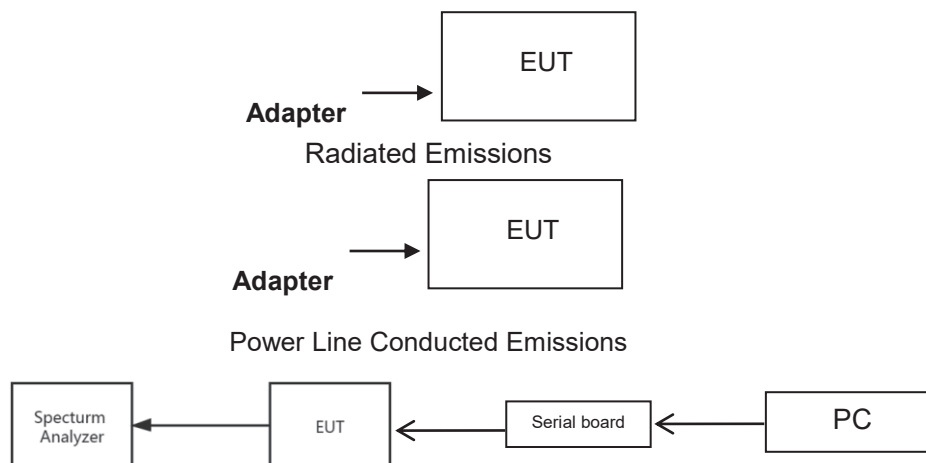
2.2. Accessories of Device (EUT)

Accessories 1 : N/A
 Manufacturer : N/A
 Model : N/A
 Rating : N/A

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number
1	Adapter	Baseus	CCXFK65CC	N/A
2.	Notebook PC	Dell	Latitude 3490	N/A

2.4. Block Diagram of Connection Between EUT and Simulators



RF Conducted Test

For RF conducted test, the path loss from EUT to SPA already set into SPA offset, offset=Cable loss+Internal pash loss.

2.5. Test Mode Description

Keeping TX			
Mode	Data rate (Mbps)	Channel	Frequency(MHz)
IEEE 802.11 b	1	Low :CH1	2412
	1	Middle: CH6	2437
	1	High: CH11	2462
IEEE 802.11 g	6	Low :CH1	2412
	6	Middle: CH6	2437
	6	High: CH11	2462
IEEE 802.11 n/HT20	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
IEEE 802.11 n/HT40	13.5	Low :CH1	2422
	13.5	Middle:CH4	2437
	13.5	High:CH7	2452
Note: According exploratory test, EUT will have maximum output power in those data rate. So those data rate were used for all test.			

Channel list:

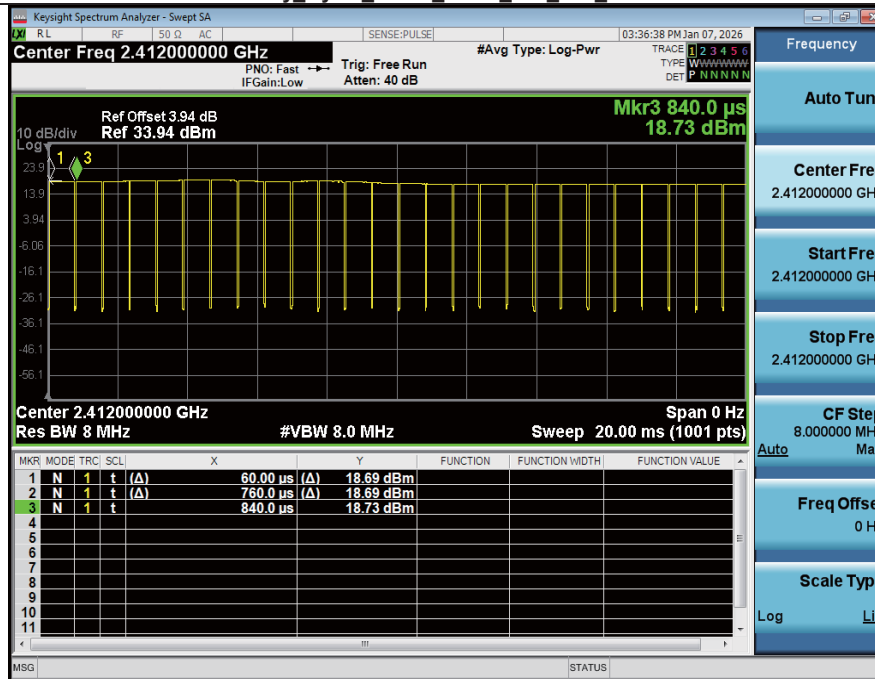
For IEEE 802.11b, g, n/HT20					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH1	2412	CH5	2432	CH9	2452
CH2	2417	CH6	2437	CH10	2457
CH3	2422	CH7	2442	CH11	2462
CH4	2427	CH8	2447		

For IEEE 802.11 n/HT40					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH1	2422	CH5	2442		
CH2	2427	CH6	2447		
CH3	2432	CH7	2452		
CH4	2437				

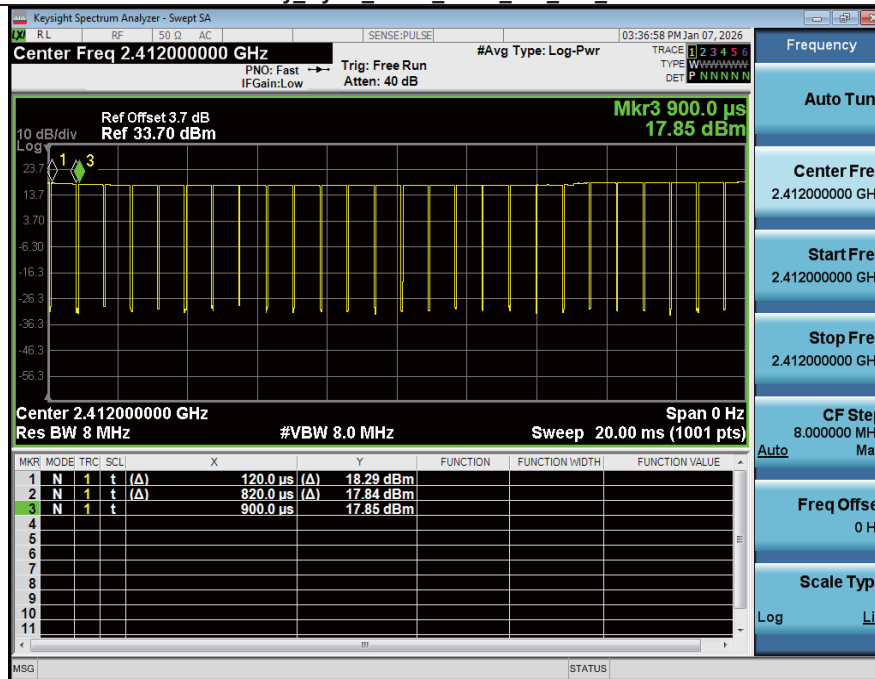
Note: duty cycle see below:

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	89.74	0.47
NVNT	ANT2	802.11b	2412.00	92.31	0.35
NVNT	ANT1	802.11b	2437.00	92.31	0.35
NVNT	ANT2	802.11b	2437.00	97.37	0.12
NVNT	ANT1	802.11b	2462.00	94.74	0.23
NVNT	ANT2	802.11b	2462.00	90.00	0.46
NVNT	ANT1	802.11g	2412.00	55.56	2.55
NVNT	ANT2	802.11g	2412.00	75.00	1.25
NVNT	ANT1	802.11g	2437.00	77.78	1.09
NVNT	ANT2	802.11g	2437.00	77.78	1.09
NVNT	ANT1	802.11g	2462.00	66.67	1.76
NVNT	ANT2	802.11g	2462.00	66.67	1.76
NVNT	ANT1	802.11n(HT20)	2412.00	70.00	1.55
NVNT	ANT2	802.11n(HT20)	2412.00	77.78	1.09
NVNT	ANT1	802.11n(HT20)	2437.00	77.78	1.09
NVNT	ANT2	802.11n(HT20)	2437.00	62.50	2.04
NVNT	ANT1	802.11n(HT20)	2462.00	66.67	1.76
NVNT	ANT2	802.11n(HT20)	2462.00	77.78	1.09
NVNT	ANT1	802.11n(HT40)	2422.00	57.14	2.43
NVNT	ANT2	802.11n(HT40)	2422.00	71.43	1.46
NVNT	ANT1	802.11n(HT40)	2437.00	71.43	1.46
NVNT	ANT2	802.11n(HT40)	2437.00	50.00	3.01
NVNT	ANT1	802.11n(HT40)	2452.00	50.00	3.01
NVNT	ANT2	802.11n(HT40)	2452.00	66.67	1.76

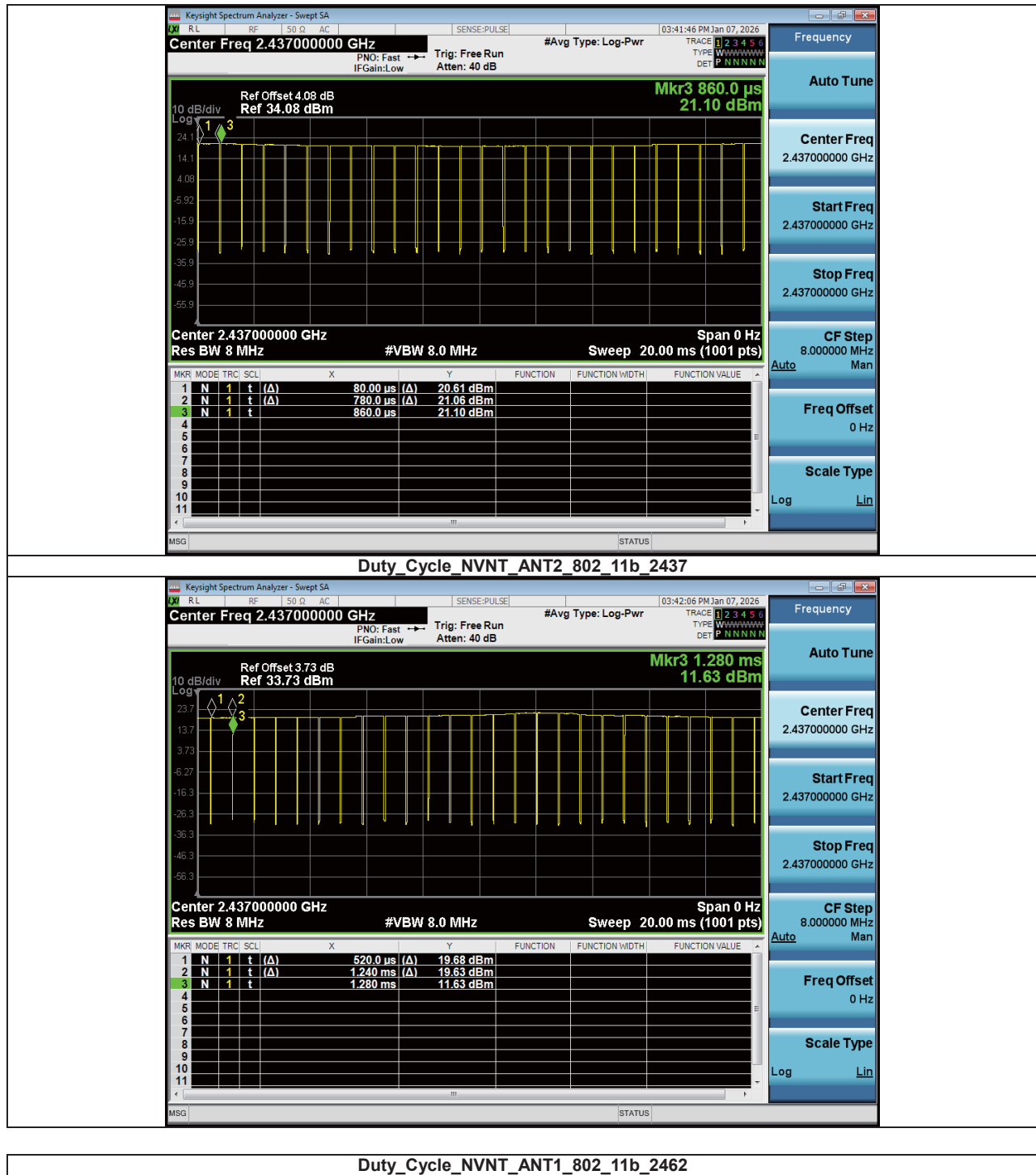
Duty_Cycle_NVNT_ANT1_802_11b_2412

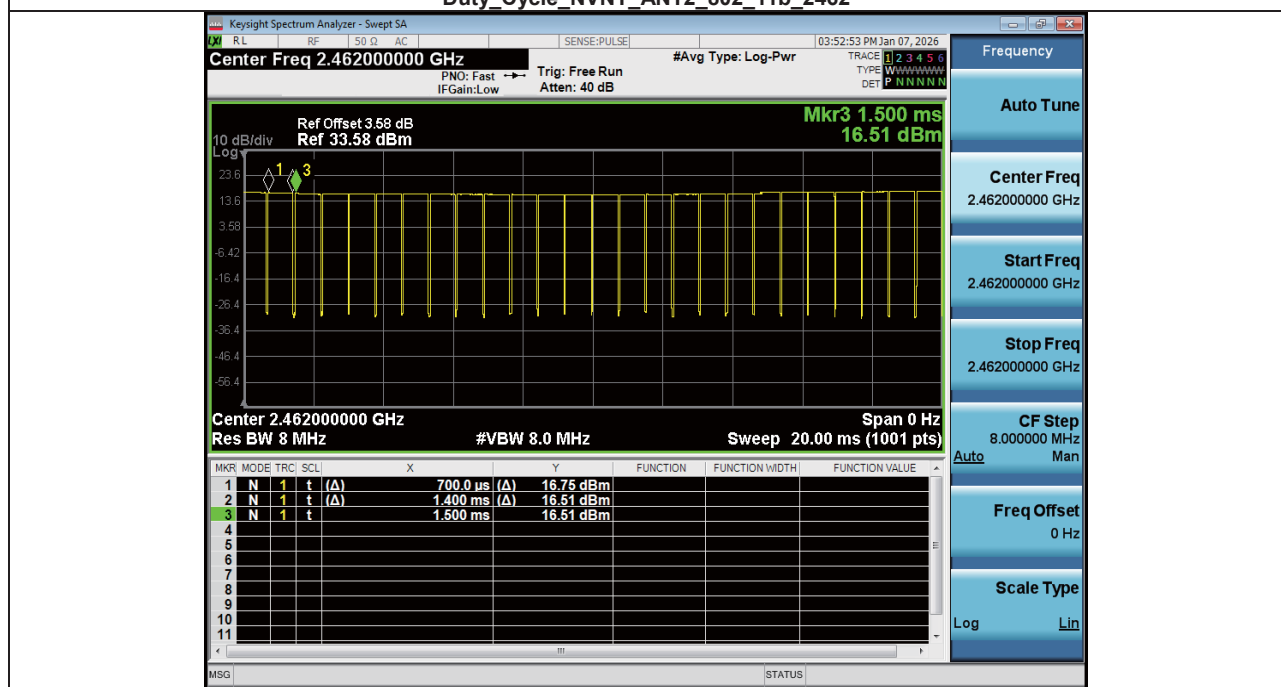
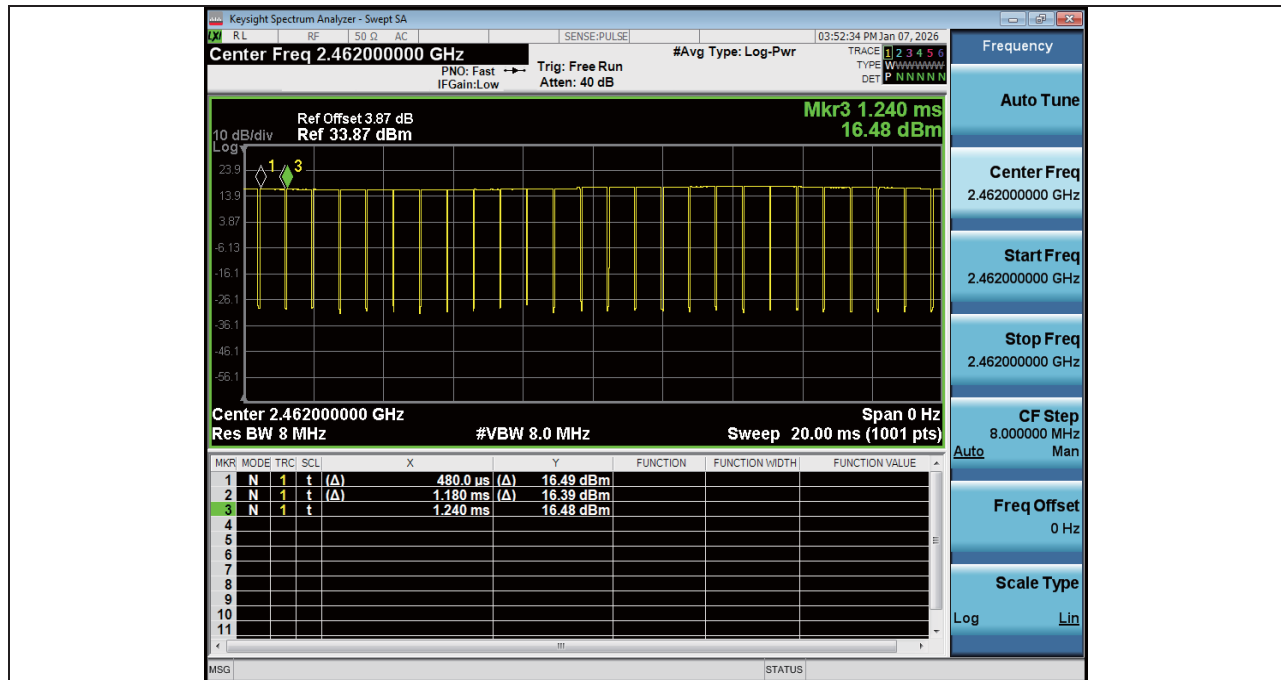


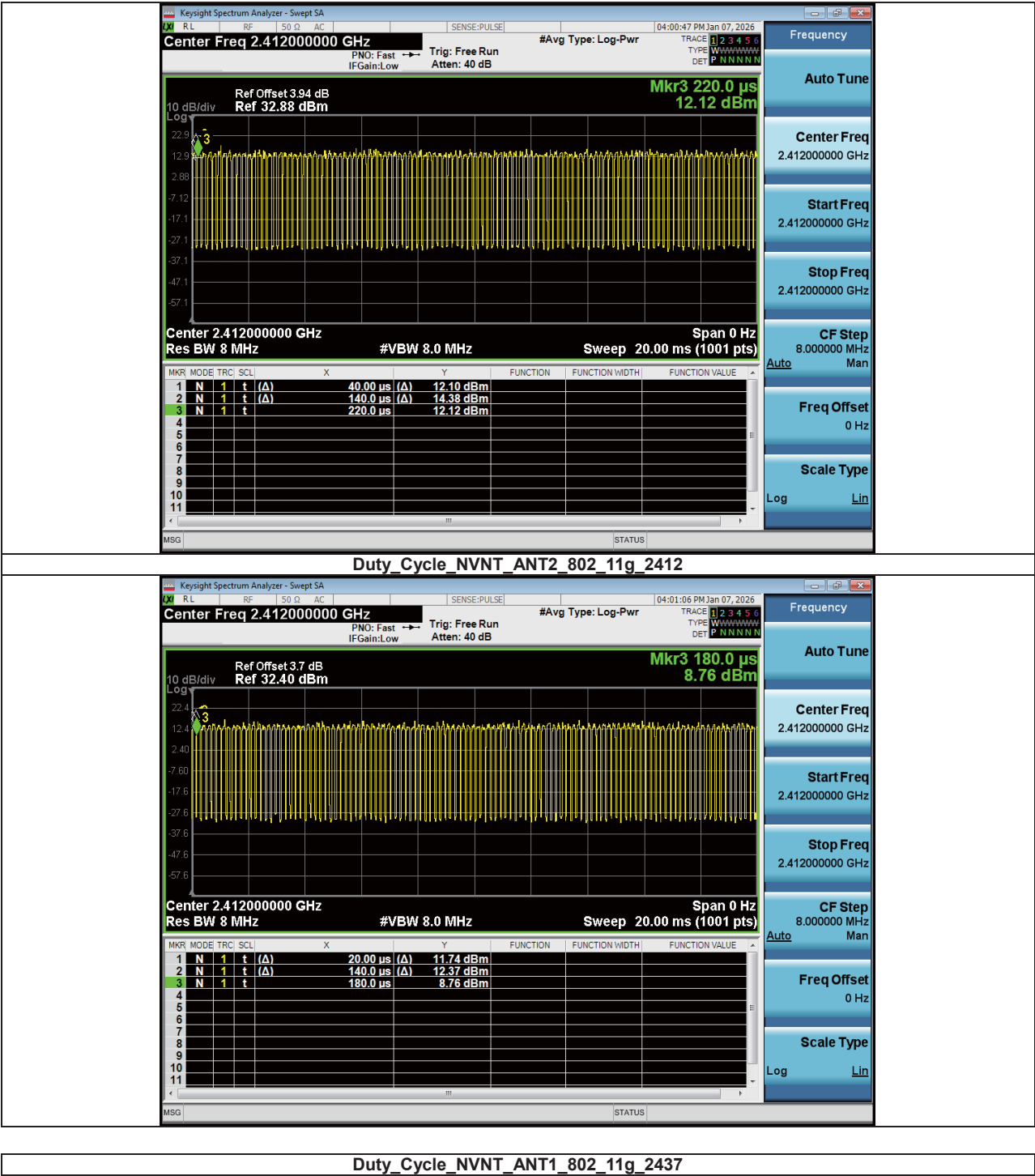
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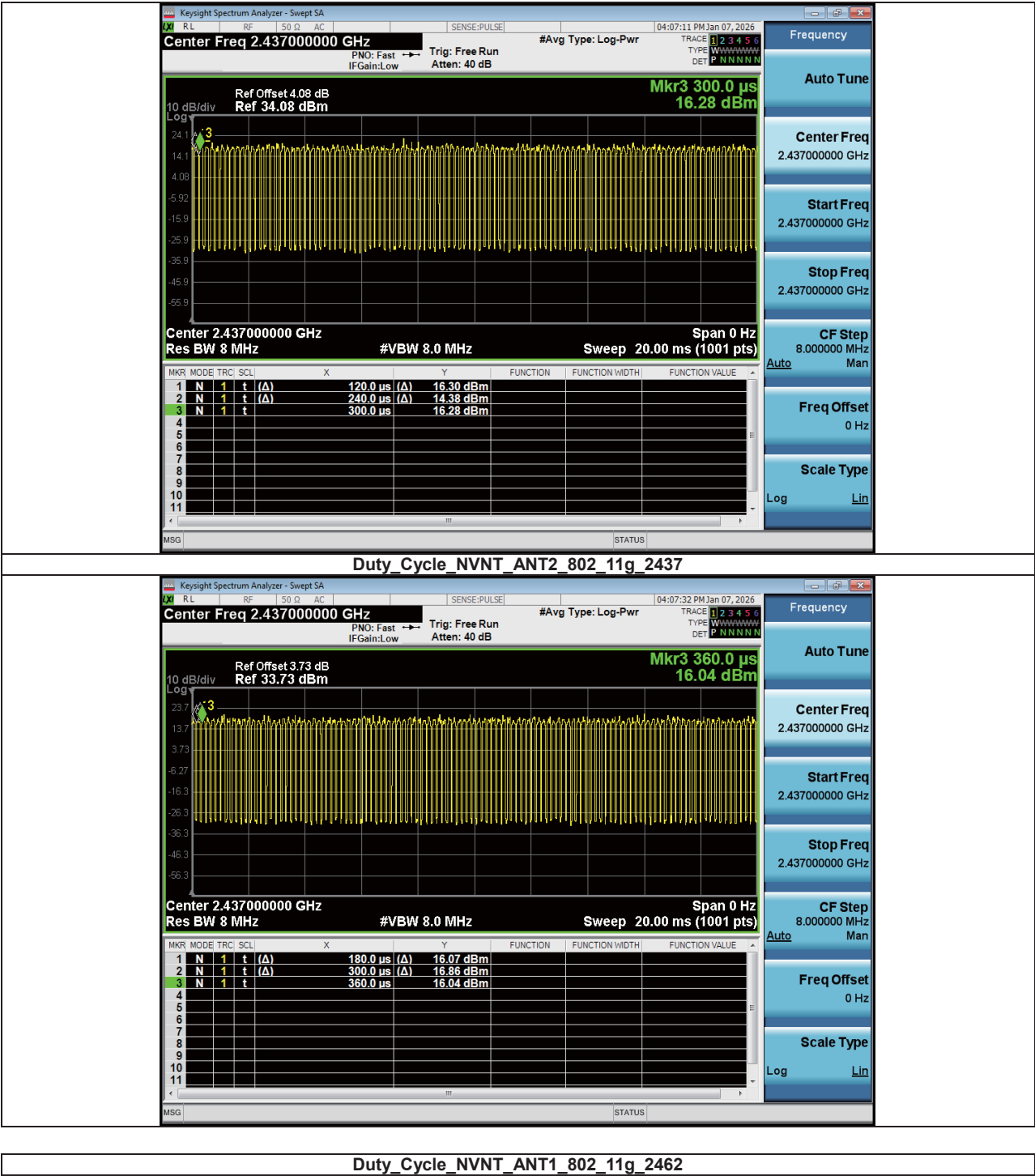


Duty_Cycle_NVNT_ANT1_802_11b_2437

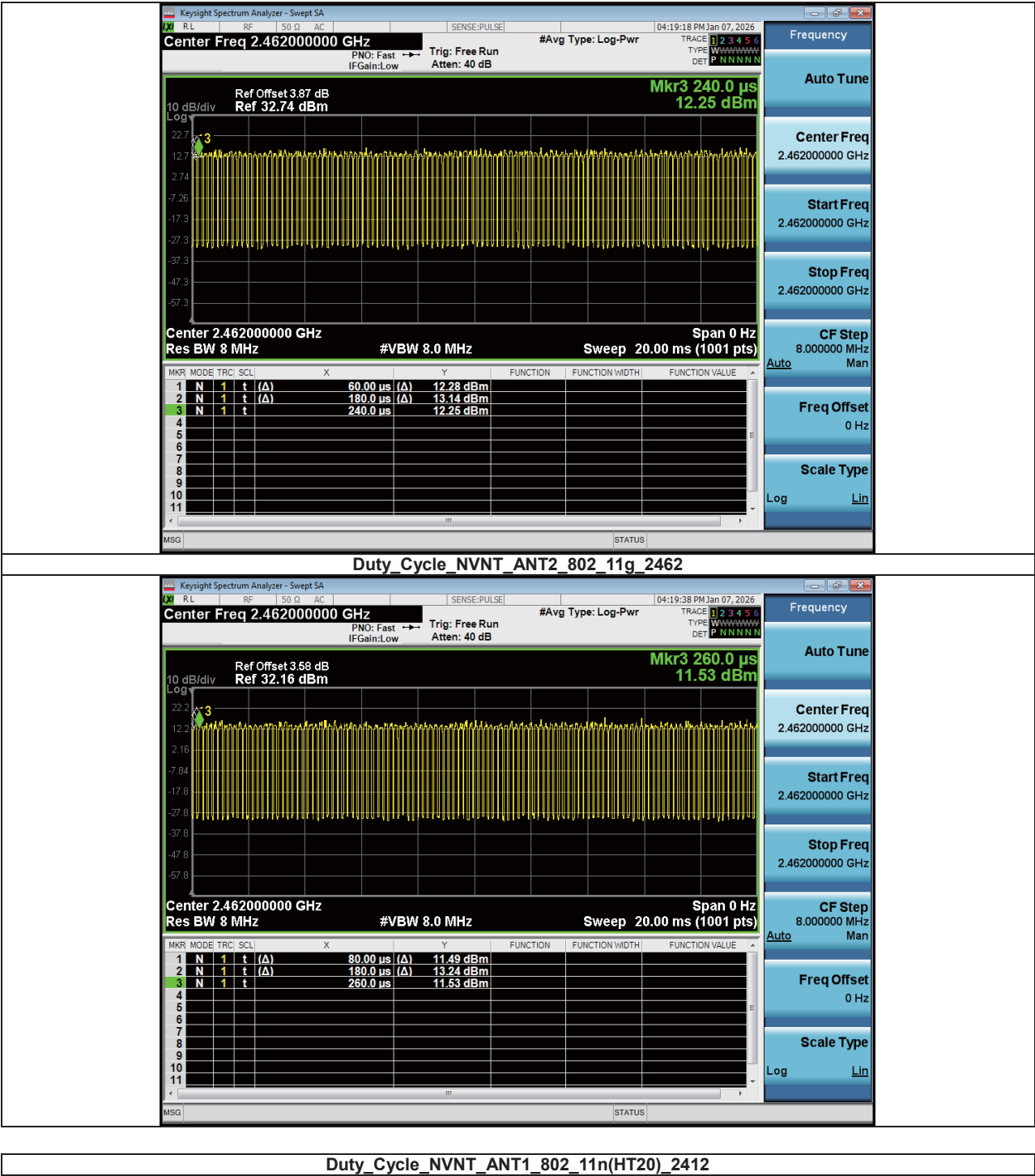




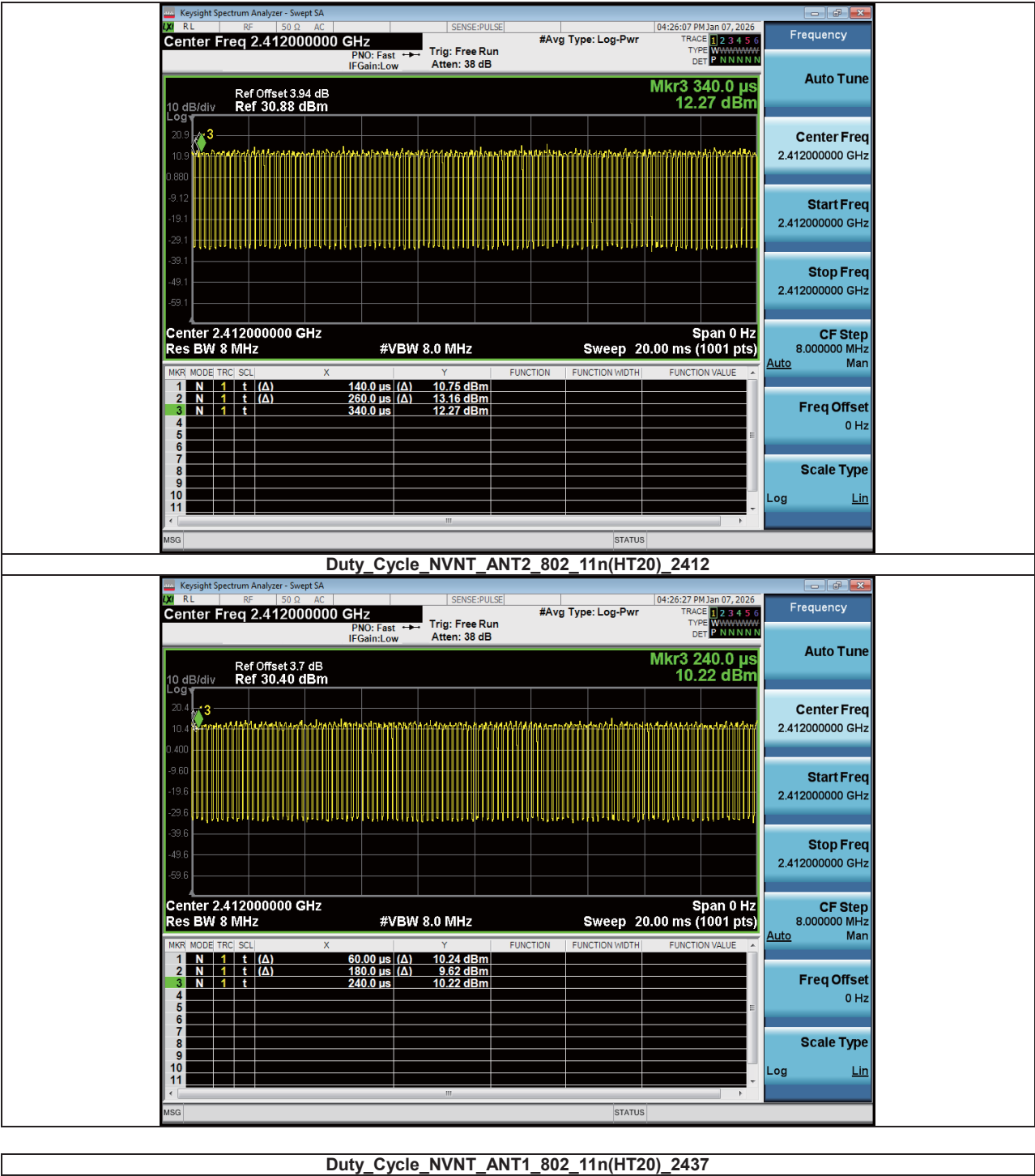


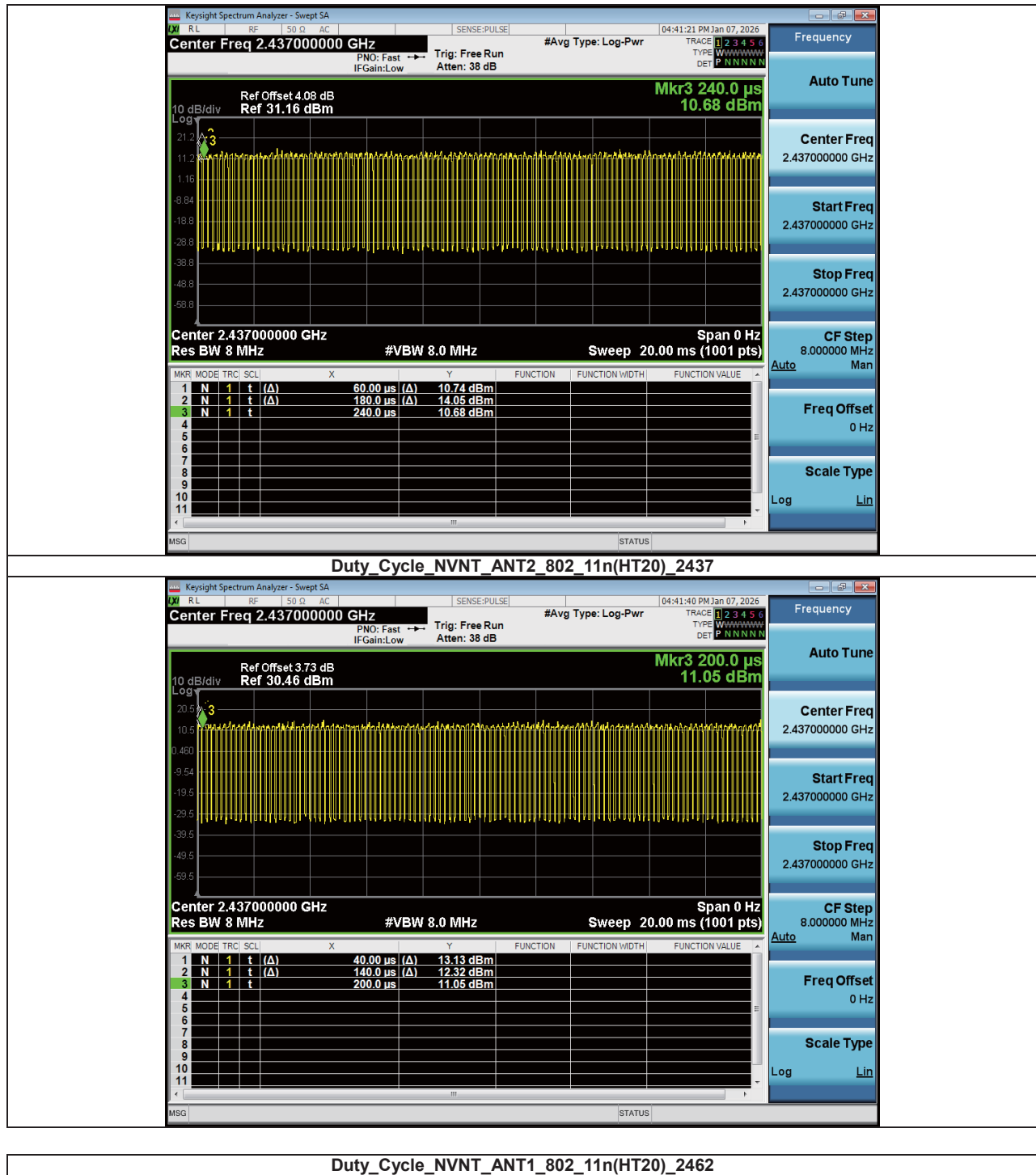


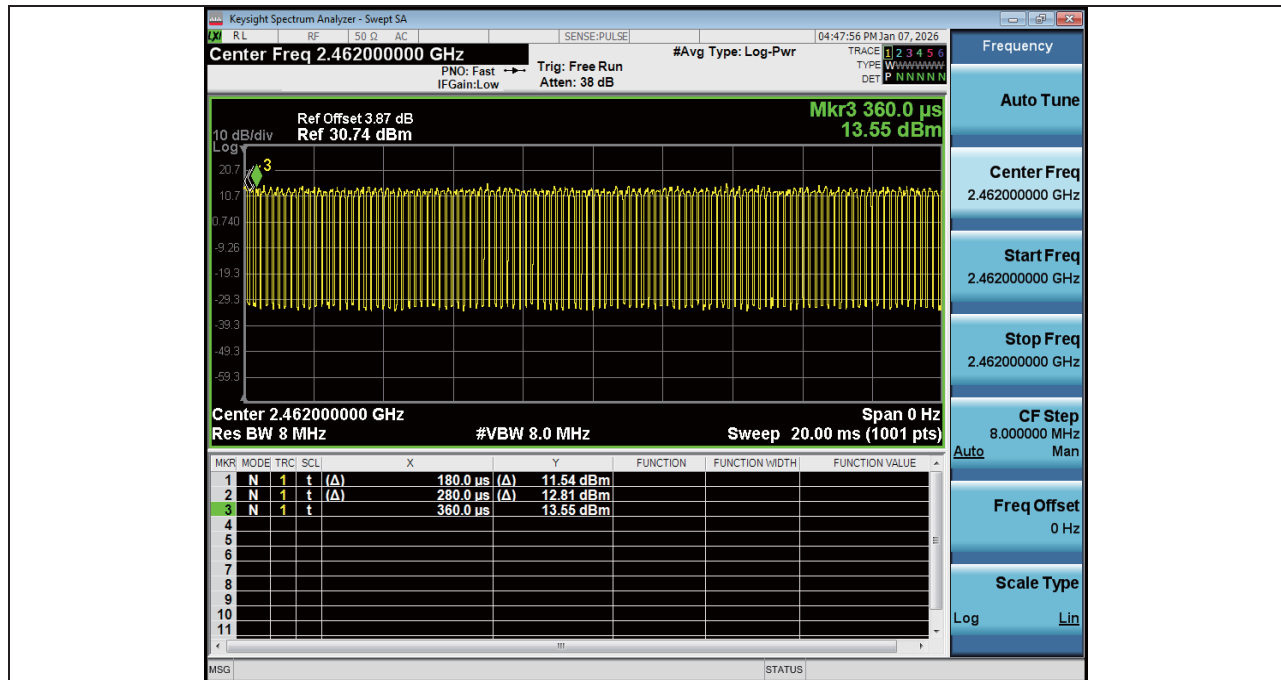
Duty_Cycle_NVNT_ANT1_802_11g_2462



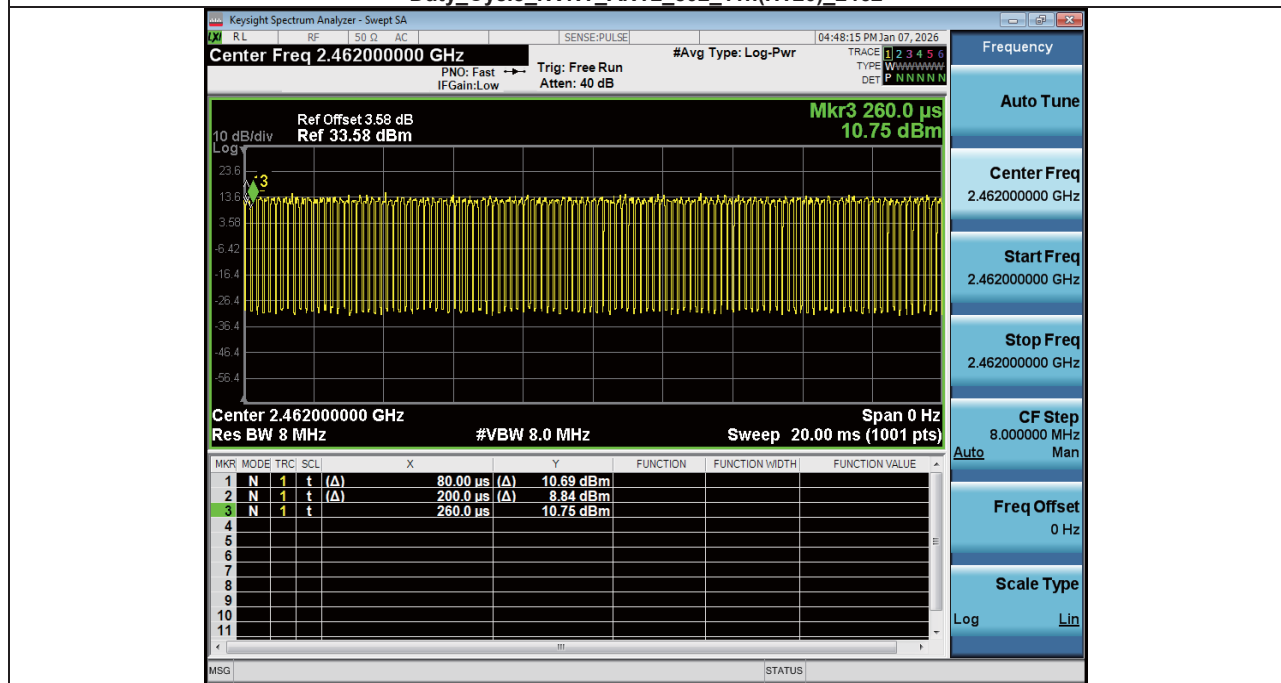
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



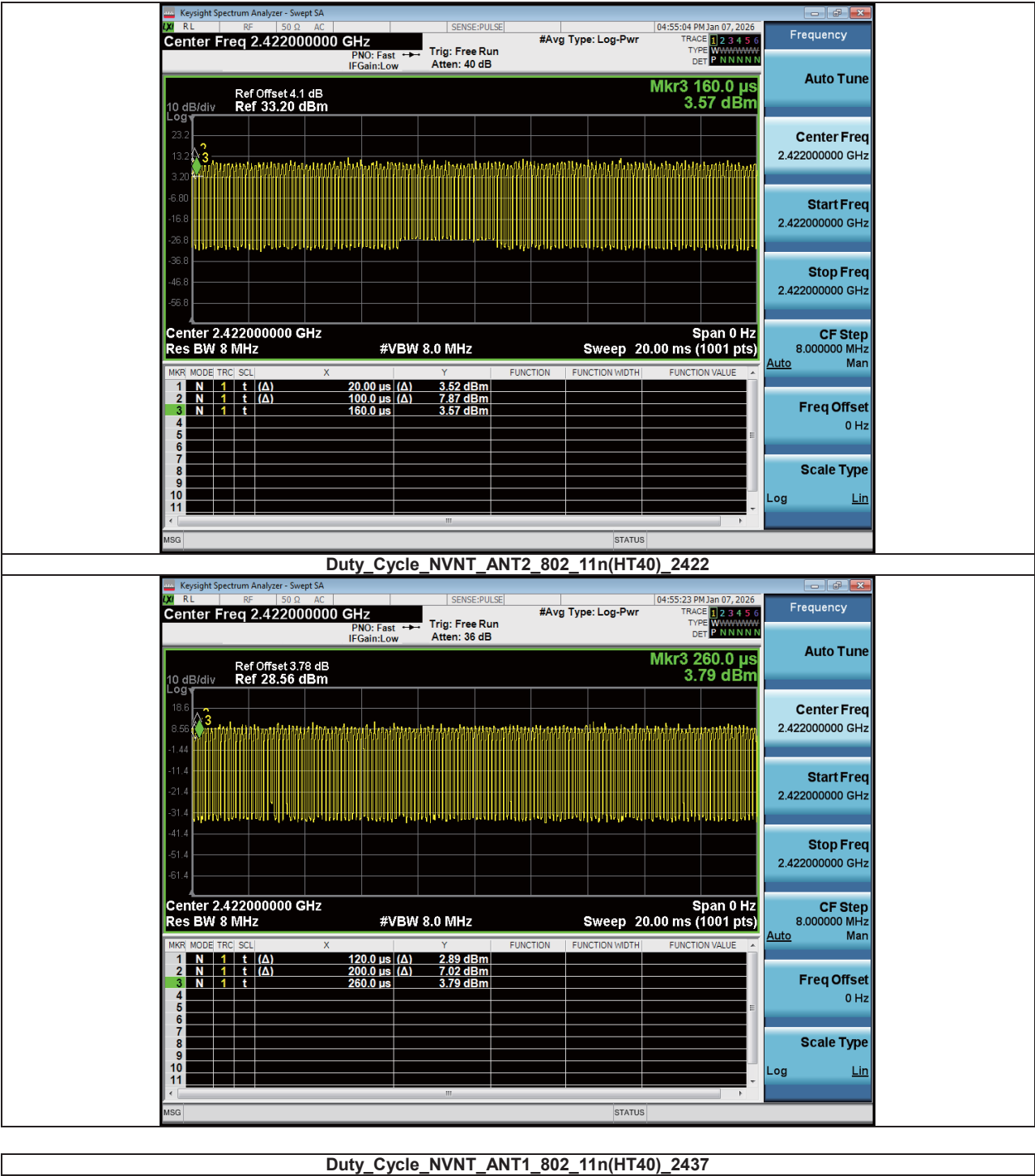


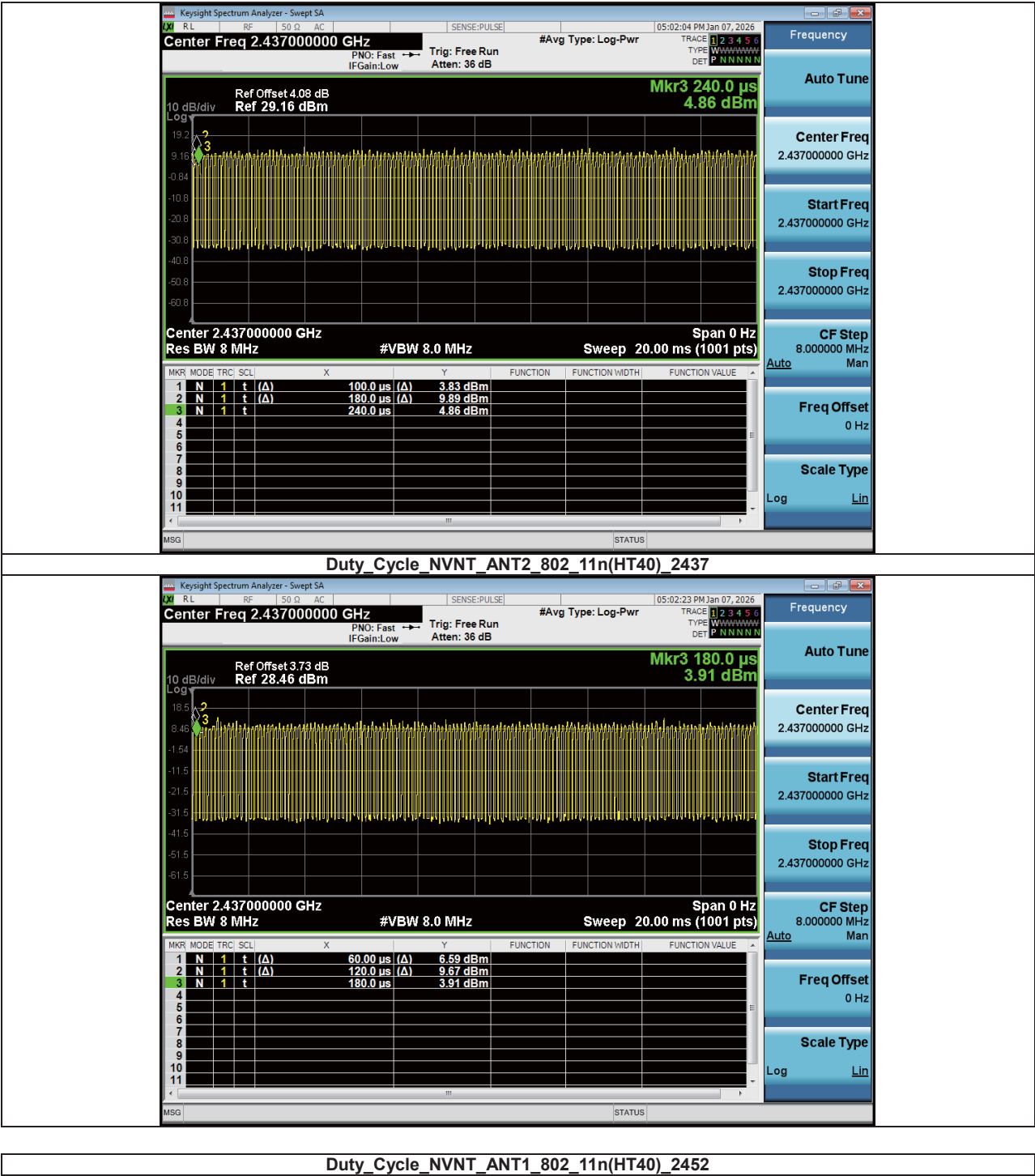


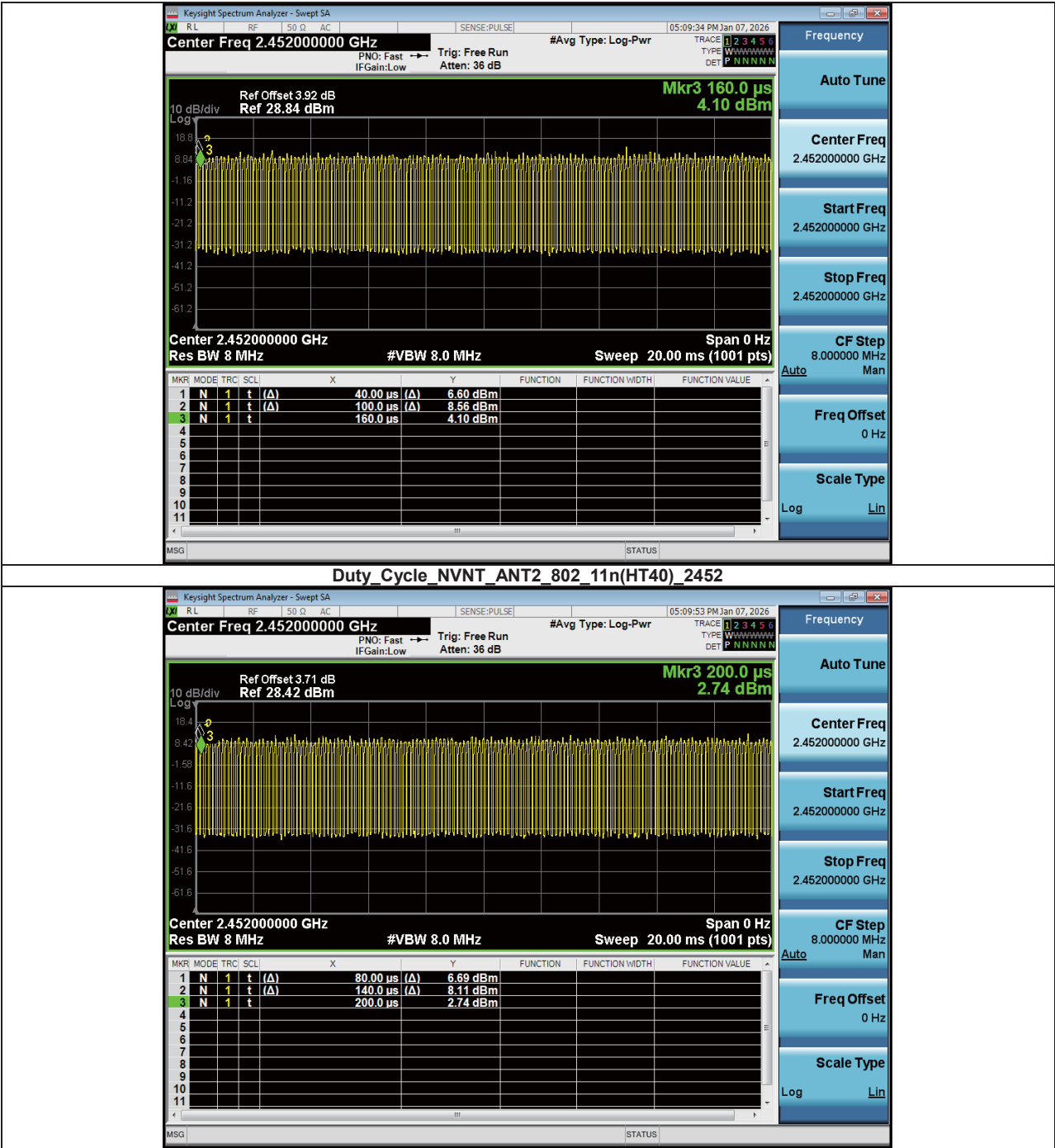
Duty_Cycle_NVNT_ANT2_802_11n(HT20)_2462



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422







2.6. Software test version and power setting information

Software testing version	QATool_Dbg.exe		
Mode	The client 's preset testing software is used to control the operation of EUT in continuous transmission mode and select the testing channel, wireless mode:		
Power level setup by client			
Mode	Channel	Frequency (MHz)	Soft Set
IEEE 802.11b/g/n20	Low :CH1	2412	TX level is set as defaults value.
	Middle: CH6	2437	TX level is set as defaults value.
	High: CH11	2462	TX level is set as defaults value.
IEEE 802.11n40	Low :CH1	2422	TX level is set as defaults value.
	Middle:CH4	2437	TX level is set as defaults value.
	High:CH7	2452	TX level is set as defaults value.

2.7. Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	26℃
Humidity range:	25-75%	54%
Pressure range:	86-106kPa	101kPa

2.8. Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission

Registration Number: 916281

2.9. Measurement Uncertainty

(95% confidence levels, $k=2$)

Item	Uncertainty
Power Line Conducted Emissions Test	2.13dB
Radiation Emission test in 3m chamber(Below 30MHz)	4.07dB
Radiation Emission test in 3m chamber(30MHz to 1GHz)	4.51dB
Radiation Emission test in 3m chamber(1GHz to 18GHz)	5.07dB
Radiation Emission test in 3m chamber(18GHz to 40GHz)	5.21dB
Radio Frequency	48.24KHz
Conducted RF Power	0.41dB
Power Spectral Density	0.39 dB
Occupied-Bandwidth	968Hz
Duty Cycle	1%
Conducted-Spurious Emission	1.26dB

2.10.Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	9*6*6 anechoic chamber	SKET	9*6*6	N/A	/	2025.12.19	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2025.12.18	1 Year
3.	L.I.S.N.#1	Rohde&Schwarz	ENV216	102282	/	2025.12.18	1 Year
4.	L.I.S.N.#2	RFT	NNB111	13835240	/	2025.12.18	1 Year
5.	Loop Antenna	Schwarz beck	FMZB 1519B	00128	/	2025.01.02	2 Year
6.	Bilog Antenna	Schwarz beck	VULB 9168	01448	/	2025.01.02	2 Year
7.	Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101648	3.70	2025.12.18	1 Year
8.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2025.01.02	2 Year
9.	Amplifier	SKET	LAPA_01G1 8G-45dB	SK20220329 01	/	2025.12.18	1 Year
10.	Horn Antenna	Schwarz beck	BBHA 9170	00946	/	2024.12.31	2 Year
11.	Amplifier	SKET	LNPA_0118 G-45	SK20200108 01	/	2025.12.18	1 Year
12.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.0 2-1111533-F Z	/	2025.12.18	1 Year
13.	RF Sensor Unit	Tachoy	TR1029-2	20220428P0 08	/	2025.12.18	1 Year
14.	Spectrum Analyzer	Agilent	N9020A	MY51281067	A.14.03	2025.12.18	1 Year
15.	Temp. & Humid Chamber	Auchno	9606	/	/	2025.12.18	1 Year
16.	Regulated DC Power Supply	Xinouhua	ADC120V10 A	2022112516 38	/	2025.12.18	1 Year
17.	Cable	SKET	Cable-RE-1	#02/#03	/	2025.12.18	1 Year
18.	Cable	SKET	Cable-RE-2	#01	/	2025.12.18	1 Year
19.	Cable	SKET	Cable-RE-3	#04	/	2025.12.18	1 Year
20.	Cable	SKET	Cable-CE-1	A-E-24	/	2025.12.18	1 Year
21.	6dB Attenuator	Schwarzbeck	DGA 9552N 6dB	CK4186	/	2025.12.18	1 Year
22.	Power meter	Agilent	E4419B	GB40202121	/	2025.12.18	1 Year
23.	Comprehensive Test Instrument	Rohde&Schwarz	CMW 500	145266	/	2025.12.18	1 Year
For Test Software Information							
Item	Software Name	Manufacturer		Version			
RE	EZ EMC	Farad		PSI-3A1			
CE	EZ EMC	Farad		PSI-3A1			
RF	RTS	TACHOY		V1.0.0			

3. Spurious Emission

3.1. Test Limits

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

Note: The peak limit is 20 dB higher than the average limit

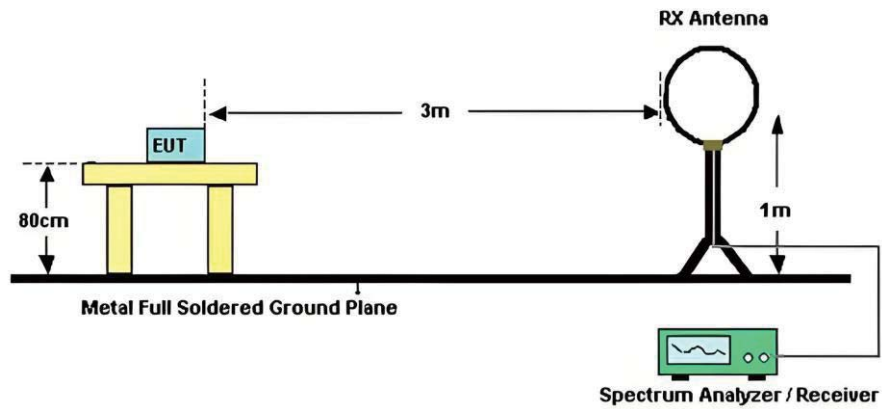
All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

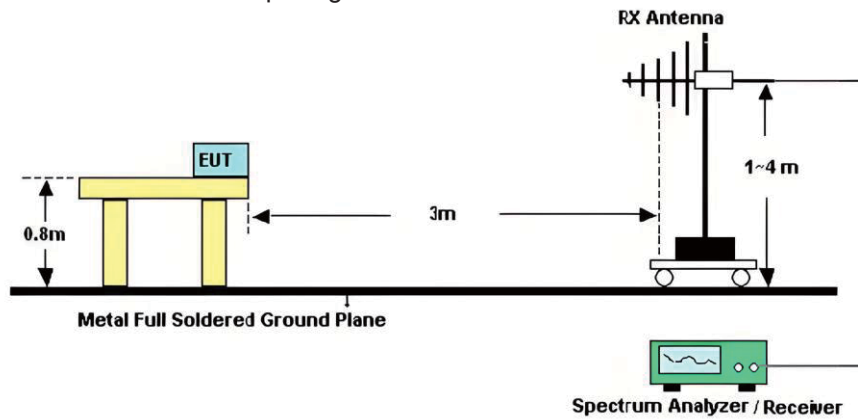
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

3.2. Block Diagram of Test setup

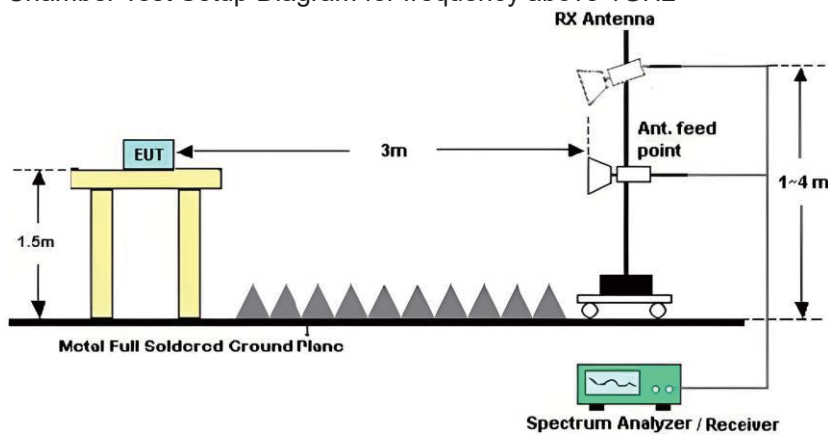
a. In 3m Anechoic Chamber Test Setup Diagram for below 30MHz



b. In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



c. In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



3.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and simulator
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
 - (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10-2020 on Radiated Emission test.
- (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

Test setup information:

9KHz~150KHz	RBW200Hz	VBW1KHz
150KHz~30MHz	RBW9KHz	VBW 30KHz
30MHZ~1GHz	RBW120KHz	VBW 300KHz
Above1GHz	RBW1MHz	VBW 3MHz

3.4. Test Results

We have scanned from 9kHz to the 10th harmonic of the EUT's highest frequency.
Detailed information please see the following page.

From 9KHz to 30MHz:	
Test Date : 2025.12.27	Temperature : 26℃
Test Engineer : Jensen Wang	Humidity : 54%
Test Mode : IEEE 802.11b mode	
Test Results : PASS	
Note:	The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

From 30MHz to 1000MHz:	
Test Date : 2025.12.27	Temperature : 26℃
Test Engineer : Jensen Wang	Humidity : 54%
Test Mode : IEEE 802.11b mode	
Test Results : PASS	
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. All modes have been tested, and only worst data of IEEE 802.11b mode, Channel 2412MHz was listed in this report. 4. The EUT was tested in MIMO mode with both antennas transmitting simultaneously, representing the worst-case emission.

Polarization: Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	77.5248	25.23	11.01	36.24	40.00	-3.76	QP
2	135.2095	23.65	14.35	38.00	43.50	-5.50	QP
3	203.6120	21.99	11.61	33.60	43.50	-9.90	QP
4	259.9165	23.61	13.50	37.11	46.00	-8.89	QP
5 *	324.8830	26.64	15.71	42.35	46.00	-3.65	QP
6	936.7774	13.31	27.82	41.13	46.00	-4.87	QP

Level = Reading + Factor Margin = Level - Limit

Polarization: Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	78.5853	23.36	10.91	34.27	40.00	-5.73	QP
2	129.4677	25.52	14.04	39.56	43.50	-3.94	QP
3	167.1635	22.83	14.40	37.23	43.50	-6.27	QP
4 *	295.9241	28.23	14.75	42.98	46.00	-3.02	QP
5	344.0837	25.16	15.87	41.03	46.00	-4.97	QP
6	699.9179	17.14	24.01	41.15	46.00	-4.85	QP

Level = Reading + Factor Margin = Level - Limit

From 1GHz to 25GHz:	
Test Date : 2025.12.27	Temperature : 26℃
Test Engineer : Jensen Wang	Humidity : 54%
Test Mode : WiFi mode	
Test Results : PASS	
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out. 4. The EUT was tested in MIMO mode with both antennas transmitting simultaneously, representing the worst-case emission.

Test Mode : IEEE 802.11b TX Low								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	4824	V	58.07	-13.18	44.89	74.00	-29.11	Peak
2	4824	V	49.89	-13.18	36.71	54.00	-17.29	Avg
3	7236	--	--	--	--	--	--	--
4	9648	--	--	--	--	--	--	--
5	4824	H	58.13	-13.18	44.95	74.00	-29.05	Peak
6	4824	H	48.59	-13.18	35.41	54.00	-18.59	Avg
7	7236	--	--	--	--	--	--	--
8	9648	--	--	--	--	--	--	--
Test Mode : IEEE 802.11b TX Mid								
1	4874	V	58.55	-13.00	45.55	74.00	-28.45	Peak
2	4874	V	48.84	-13.00	35.84	54.00	-18.16	Avg
3	7311	--	--	--	--	--	--	--
4	9748	--	--	--	--	--	--	--
5	4874	H	57.25	-13.00	44.25	74.00	-29.75	Peak
6	4874	H	48.03	-13.00	35.03	54.00	-18.97	Avg
7	7311	--	--	--	--	--	--	--
8	9748	--	--	--	--	--	--	--
Test Mode : IEEE 802.11b TX High								
1	4924	V	56.77	-12.83	43.94	74.00	-30.06	Peak
2	4924	V	50.14	-12.83	37.31	54.00	-16.69	Avg
3	7386	--	--	--	--	--	--	--
4	9848	--	--	--	--	--	--	--
5	4924	H	58.22	-12.83	45.39	74.00	-28.61	Peak
6	4924	H	47.01	-12.83	34.18	54.00	-19.82	Avg
7	7386	--	--	--	--	--	--	--
8	9848	--	--	--	--	--	--	--
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit.								

Test Mode : IEEE 802.11g TX Low								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	4824	V	59.36	-13.18	46.18	74.00	-27.82	Peak
2	4824	V	50.59	-13.18	37.41	54.00	-16.59	Avg
3	7236	--	--	--	--	--	--	--
4	9648	--	--	--	--	--	--	--
5	4824	H	55.13	-13.18	41.95	74.00	-32.05	Peak
6	4824	H	47.53	-13.18	34.35	54.00	-19.65	Avg
7	7236	--	--	--	--	--	--	--
8	9648	--	--	--	--	--	--	--
Test Mode : IEEE 802.11g TX Mid								
1	4874	V	57.99	-13.00	44.99	74.00	-29.01	Peak
2	4874	V	46.95	-13.00	33.95	54.00	-20.05	Avg
3	7311	--	--	--	--	--	--	--
4	9748	--	--	--	--	--	--	--
5	4874	H	55.53	-13.00	42.53	74.00	-31.47	Peak
6	4874	H	45.68	-13.00	32.68	54.00	-21.32	Avg
7	7311	--	--	--	--	--	--	--
8	9748	--	--	--	--	--	--	--
Test Mode : IEEE 802.11g TX High								
1	4924	V	57.45	-12.83	44.62	74.00	-29.38	Peak
2	4924	V	46.67	-12.83	33.84	54.00	-20.16	Avg
3	7386	--	--	--	--	--	--	--
4	9848	--	--	--	--	--	--	--
5	4924	H	55.82	-12.83	42.99	74.00	-31.01	Peak
6	4924	H	48.50	-12.83	35.67	54.00	-18.33	Avg
7	7386	--	--	--	--	--	--	--
8	9848	--	--	--	--	--	--	--
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit.								

Test Mode : IEEE 802.11n/HT20 TX Low								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	4824	V	58.21	-13.18	45.03	74.00	-28.97	Peak
2	4824	V	47.81	-13.18	34.63	54.00	-19.37	Avg
3	7236	--	--	--	--	--	--	--
4	9648	--	--	--	--	--	--	--
5	4824	H	57.77	-13.18	44.59	74.00	-29.41	Peak
6	4824	H	45.25	-13.18	32.07	54.00	-21.93	Avg
7	7236	--	--	--	--	--	--	--
8	9648	--	--	--	--	--	--	--
Test Mode : IEEE 802.11n/HT20 TX Mid								
1	4874	V	59.47	-13.00	46.47	74.00	-27.53	Peak
2	4874	V	47.77	-13.00	34.77	54.00	-19.23	Avg
3	7311	--	--	--	--	--	--	--
4	9748	--	--	--	--	--	--	--
5	4874	H	54.95	-13.00	41.95	74.00	-32.05	Peak
6	4874	H	47.93	-13.00	34.93	54.00	-19.07	Avg
7	7311	--	--	--	--	--	--	--
8	9748	--	--	--	--	--	--	--
Test Mode : IEEE 802.11n/HT20 TX High								
1	4924	V	59.65	-12.83	46.82	74.00	-27.18	Peak
2	4924	V	48.04	-12.83	35.21	54.00	-18.79	Avg
3	7386	--	--	--	--	--	--	--
4	9848	--	--	--	--	--	--	--
5	4924	H	58.01	-12.83	45.18	74.00	-28.82	Peak
6	4924	H	48.13	-12.83	35.30	54.00	-18.70	Avg
7	7386	--	--	--	--	--	--	--
8	9848	--	--	--	--	--	--	--
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit.								

Test Mode : IEEE 802.11n/HT40 TX Low								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	4844	V	58.34	-13.11	45.23	74.00	-28.77	Peak
2	4844	V	49.81	-13.11	36.70	54.00	-17.30	Avg
3	7266	--	--	--	--	--	--	--
4	9688	--	--	--	--	--	--	--
5	4844	H	56.83	-13.11	43.72	74.00	-30.28	Peak
6	4844	H	47.01	-13.11	33.90	54.00	-20.10	Avg
7	7266	--	--	--	--	--	--	--
8	9688	--	--	--	--	--	--	--
Test Mode : IEEE 802.11n/HT40 TX Mid								
1	4874	V	58.19	-13.00	45.19	74.00	-28.81	Peak
2	4874	V	47.15	-13.00	34.15	54.00	-19.85	Avg
3	7311	--	--	--	--	--	--	--
4	9748	--	--	--	--	--	--	--
5	4874	H	58.30	-13.00	45.30	74.00	-28.70	Peak
6	4874	H	44.95	-13.00	31.95	54.00	-22.05	Avg
7	7311	--	--	--	--	--	--	--
8	9748	--	--	--	--	--	--	--
Test Mode : IEEE 802.11n/HT40 TX High								
1	4904	V	58.02	-12.90	45.12	74.00	-28.88	Peak
2	4904	V	48.30	-12.90	35.40	54.00	-18.60	Avg
3	7356	--	--	--	--	--	--	--
4	9808	--	--	--	--	--	--	--
5	4904	H	55.40	-12.90	42.50	74.00	-31.50	Peak
6	4904	H	47.71	-12.90	34.81	54.00	-19.19	Avg
7	7356	--	--	--	--	--	--	--
8	9808	--	--	--	--	--	--	--
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor, Margin= Result-Limit.								

4. Power Line Conducted Emission

4.1. Test Limits

Frequency (MHz)	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

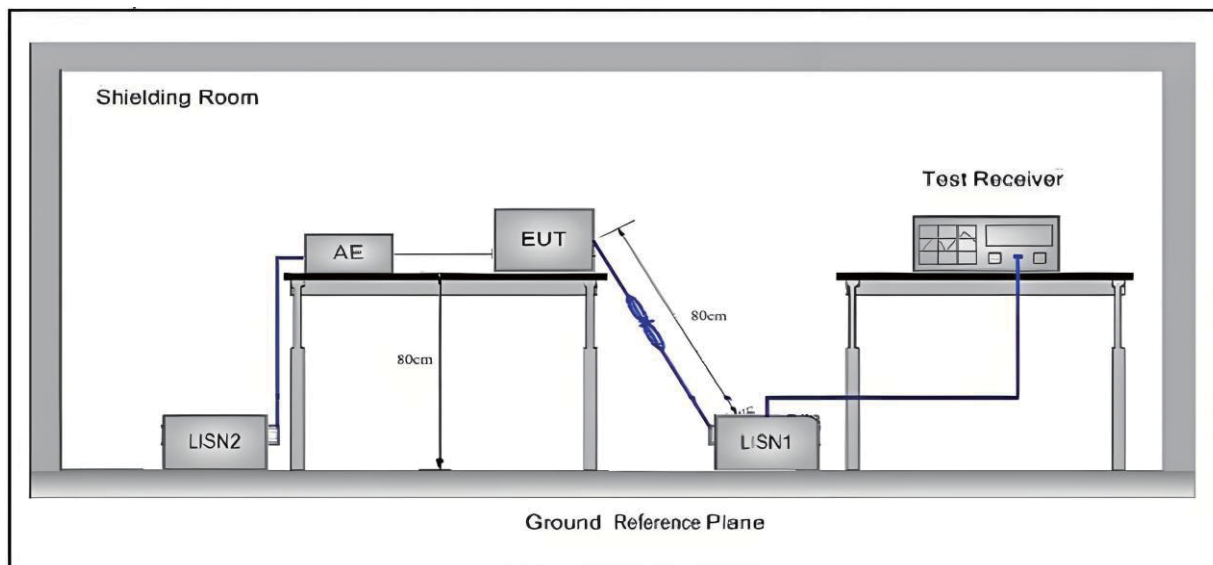
3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10-2020 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9 kHz.

4.3. Test Setup



4.4. Test Results

Test Date	: 2025.12.27	Temperature	: 26℃
Test Engineer	: Jensen Wang	Humidity	: 54%
Test Mode	: WIFI mode		
Test Results	: PASS		

Note: 1. The test results are listed in next pages.

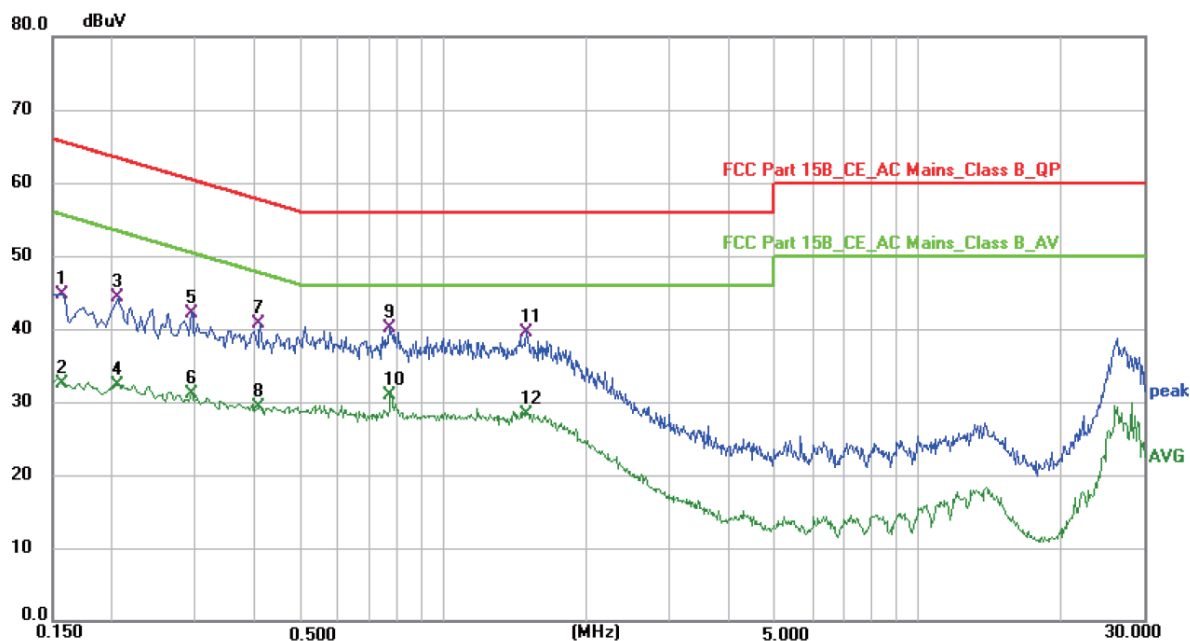
2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out.

3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

4. All modes have been tested, and only worst data of b mode, Channel 2412MHz (AC 120V/ 60Hz) was listed in this report.

5. The EUT was tested in MIMO mode with both antennas transmitting simultaneously, representing the worst-case emission.

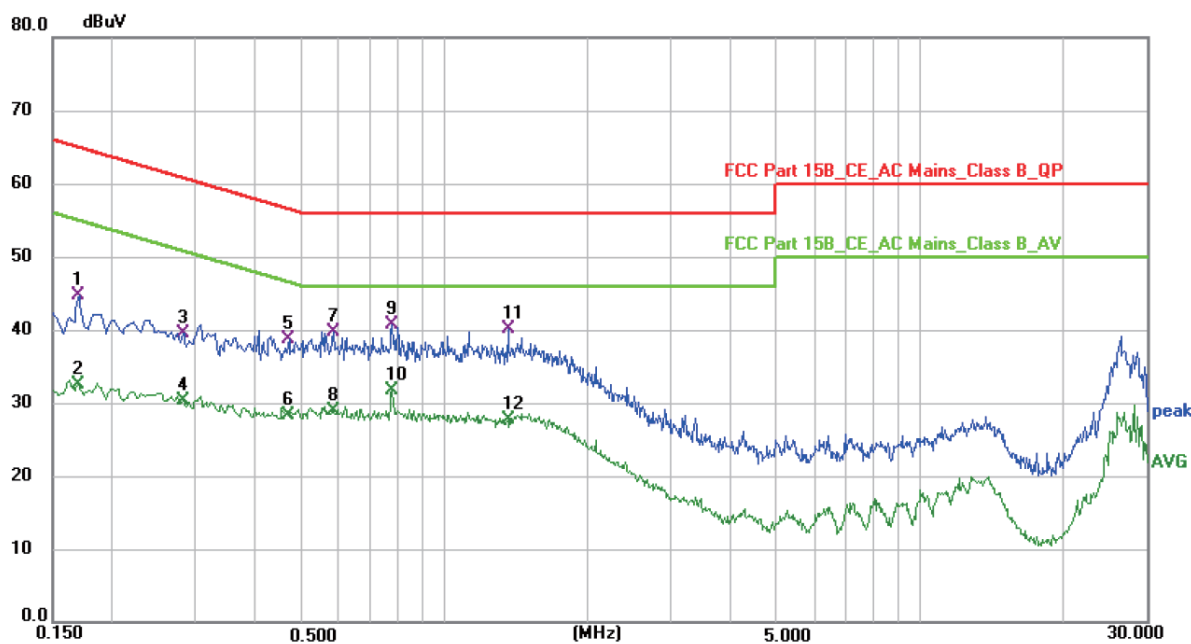
Polarization: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	34.85	9.94	44.79	65.57	-20.78	QP
2	0.1580	22.62	9.94	32.56	55.57	-23.01	AVG
3	0.2060	34.28	9.95	44.23	63.37	-19.14	QP
4	0.2060	22.33	9.95	32.28	53.37	-21.09	AVG
5	0.2940	32.10	9.99	42.09	60.41	-18.32	QP
6	0.2940	21.17	9.99	31.16	50.41	-19.25	AVG
7	0.4100	30.97	9.65	40.62	57.65	-17.03	QP
8	0.4100	19.69	9.65	29.34	47.65	-18.31	AVG
9	0.7740	30.71	9.42	40.13	56.00	-15.87	QP
10 *	0.7740	21.54	9.42	30.96	46.00	-15.04	AVG
11	1.5020	30.20	9.40	39.60	56.00	-16.40	QP
12	1.5020	18.87	9.40	28.27	46.00	-17.73	AVG

Note: Level = Reading + Factor Margin = Level - Limit

Polarization: N



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1700	34.83	9.88	44.71	64.96	-20.25	QP
2	0.1700	22.54	9.88	32.42	54.96	-22.54	AVG
3	0.2819	29.69	9.83	39.52	60.76	-21.24	QP
4	0.2819	20.44	9.83	30.27	50.76	-20.49	AVG
5	0.4700	28.91	9.71	38.62	56.51	-17.89	QP
6	0.4700	18.56	9.71	28.27	46.51	-18.24	AVG
7	0.5860	29.99	9.78	39.77	56.00	-16.23	QP
8	0.5860	19.08	9.78	28.86	46.00	-17.14	AVG
9	0.7780	30.95	9.71	40.66	56.00	-15.34	QP
10 *	0.7780	22.03	9.71	31.74	46.00	-14.26	AVG
11	1.3619	30.72	9.42	40.14	56.00	-15.86	QP
12	1.3619	18.23	9.42	27.65	46.00	-18.35	AVG

Note: Level = Reading + Factor Margin = Level - Limit

5. Out-of-band Emissions

5.1. Test Limits

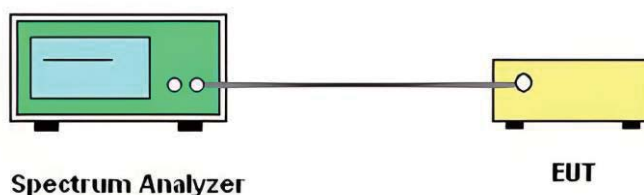
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.

5.2. Test Procedure

ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, band edge and out-of-band emissions.

5.3. Test Setup



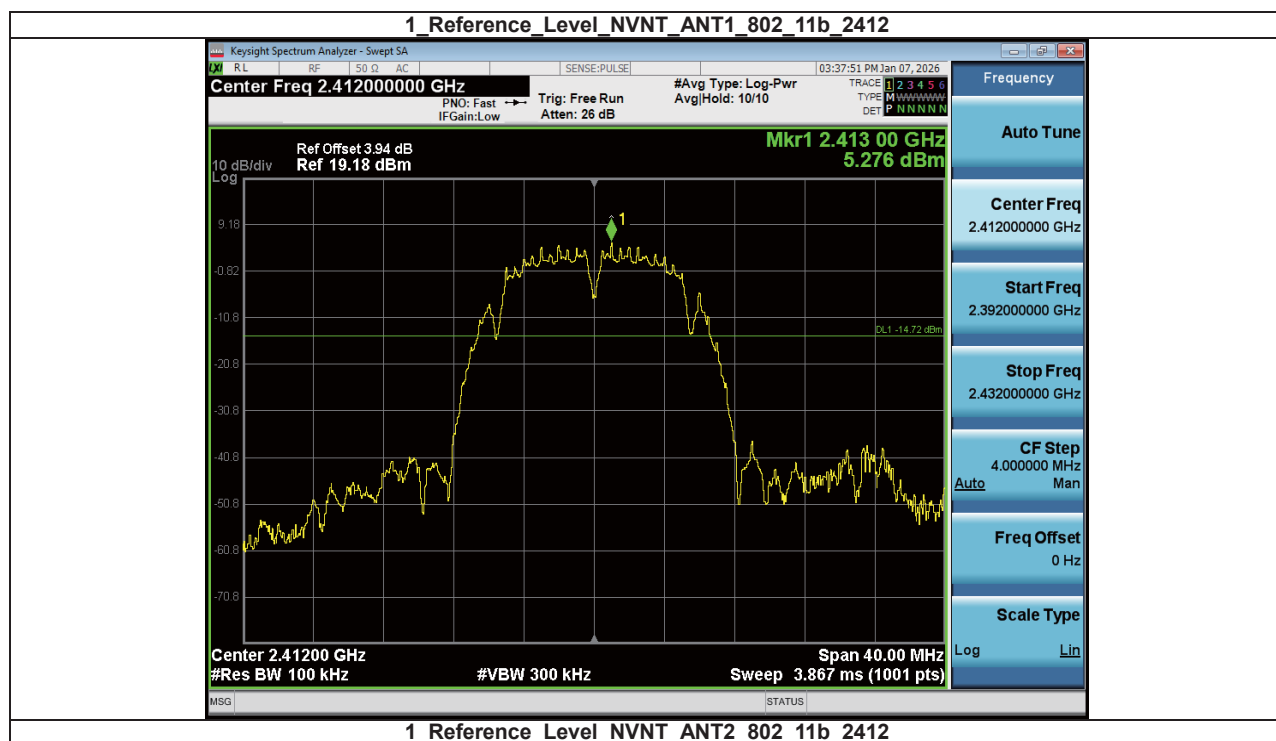
5.4. Test Results

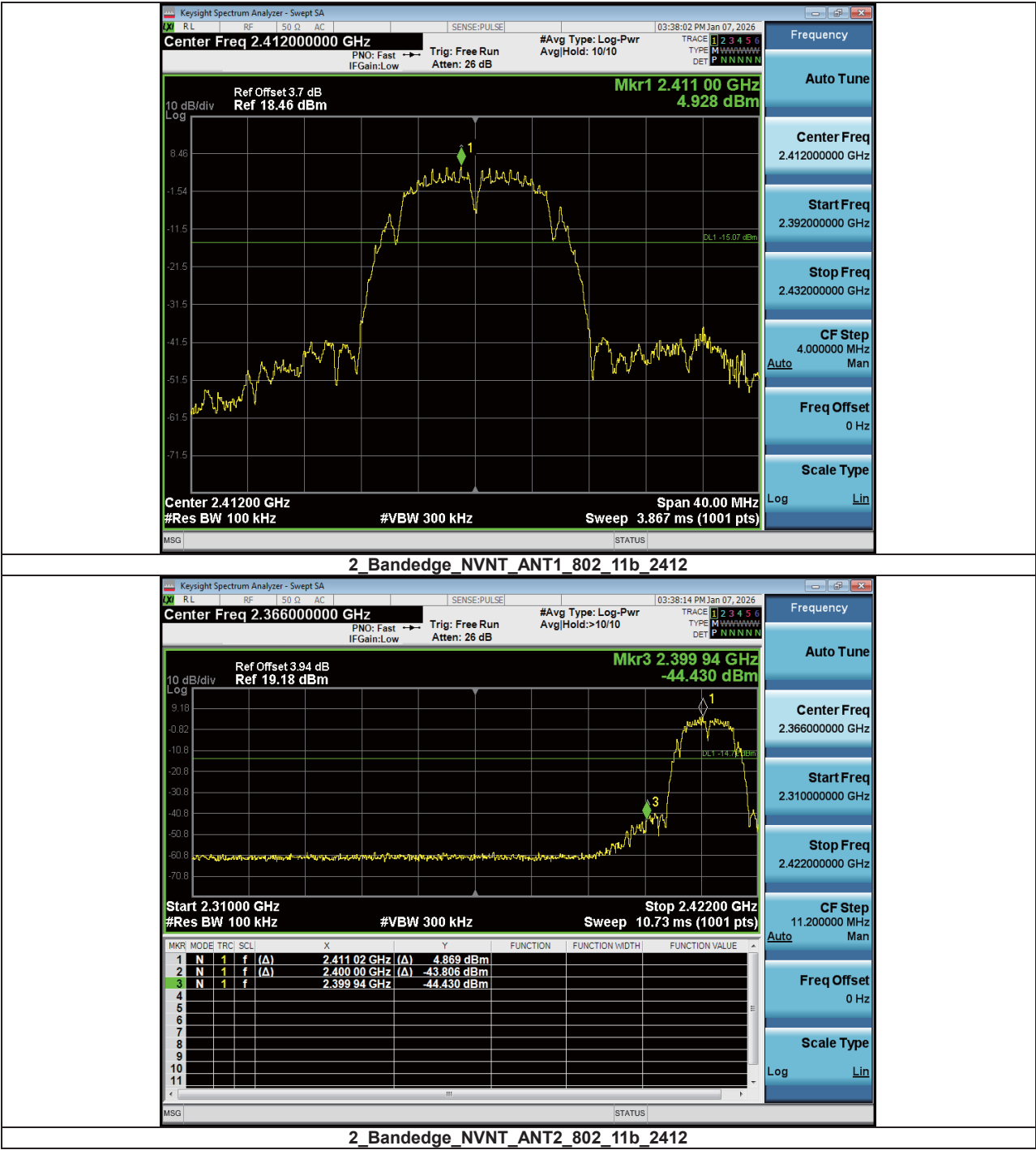
PASS.

The test results are listed in next pages.

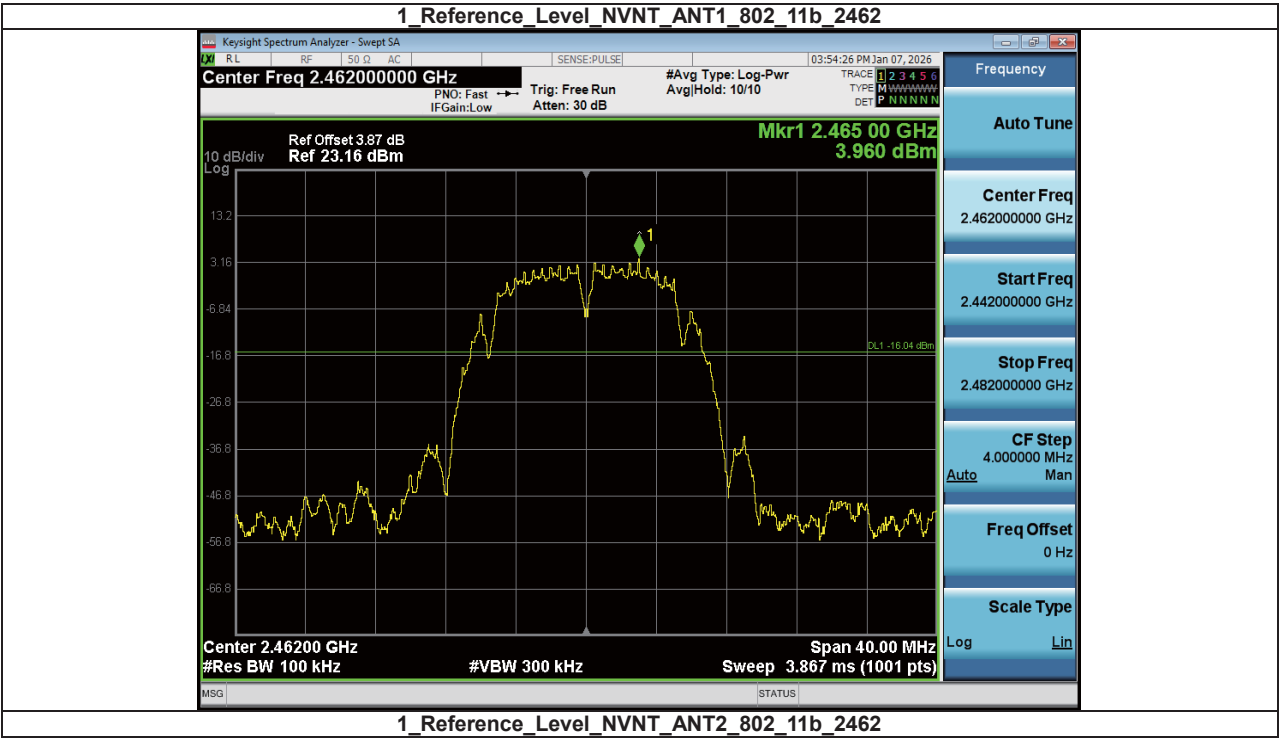
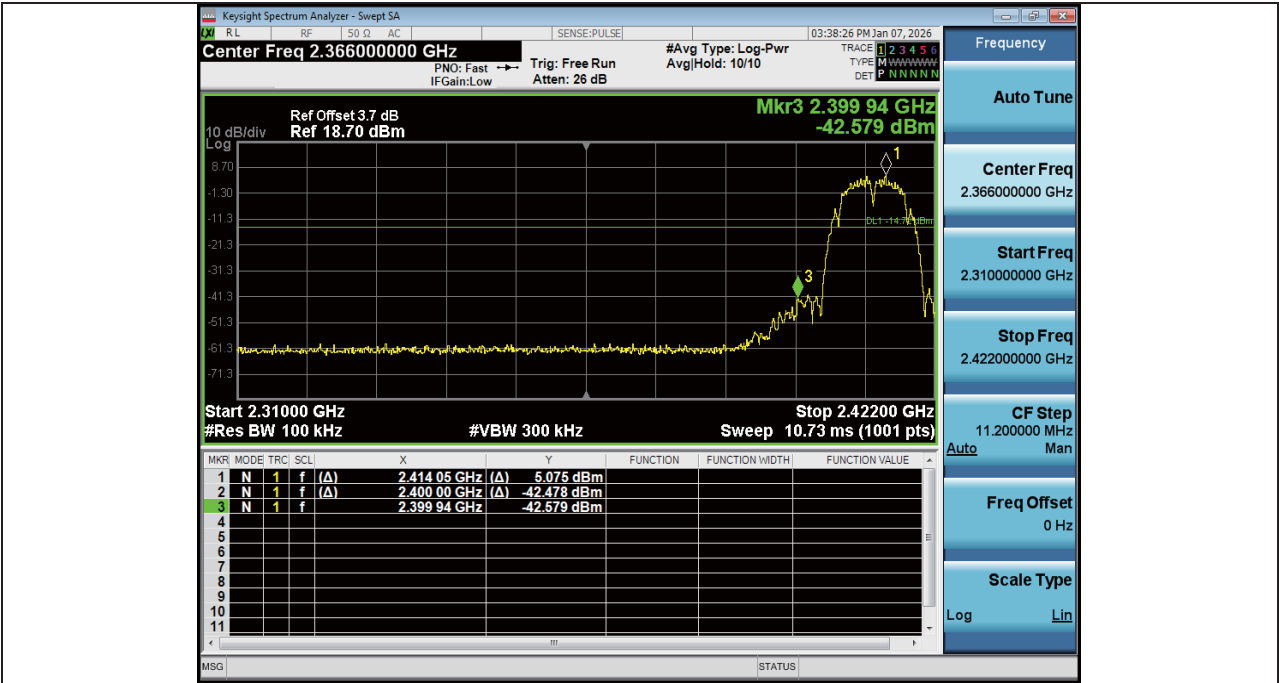
Band Edge: Pass.

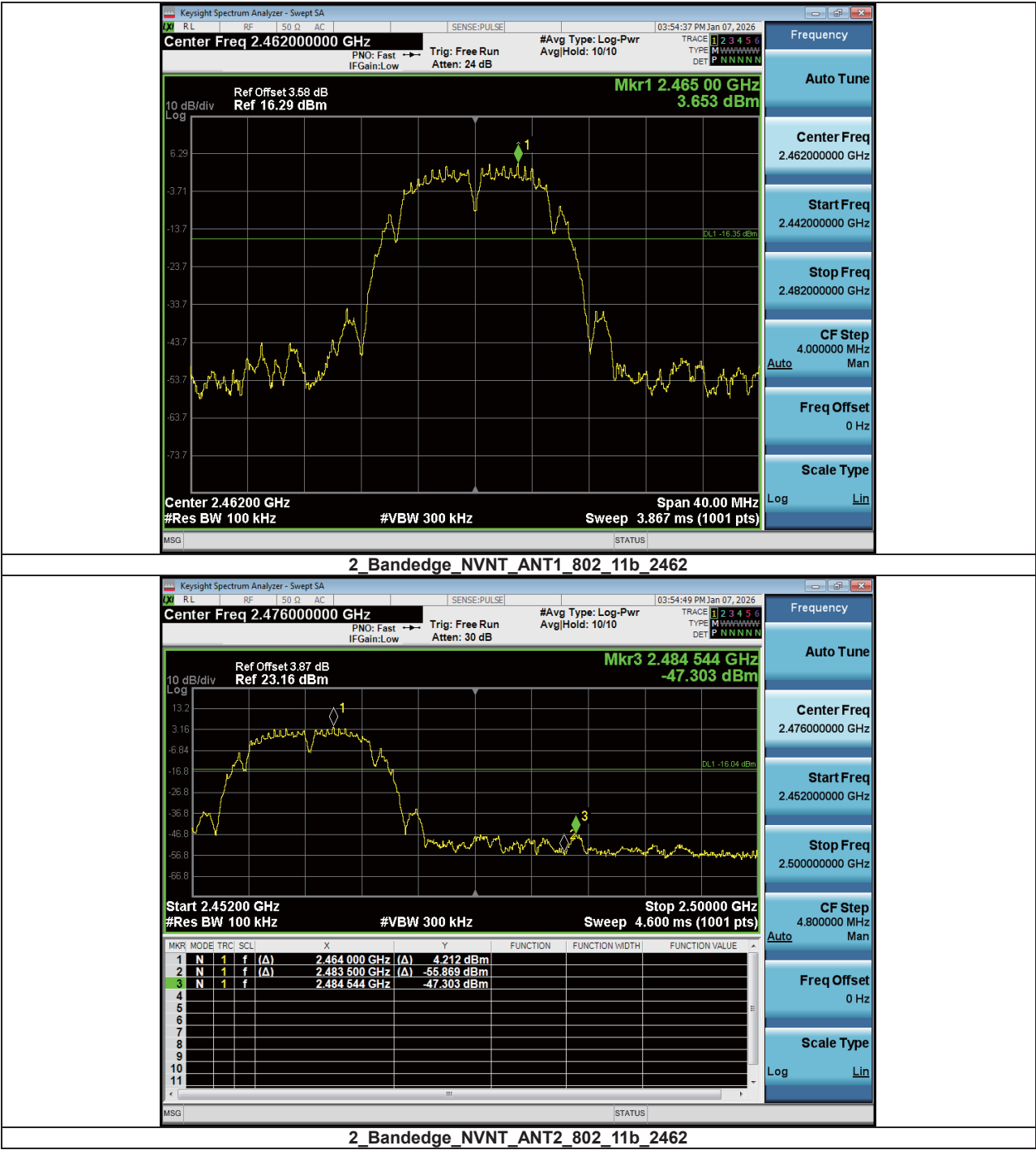
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	5.276	-44.430	-14.724	Pass
NVNT	ANT2	802.11b	2412.00	2399.936	5.276	-42.579	-14.724	Pass
NVNT	ANT1	802.11b	2462.00	2484.544	3.960	-47.303	-16.040	Pass
NVNT	ANT2	802.11b	2462.00	2484.496	3.960	-47.062	-16.040	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	-1.158	-33.840	-21.158	Pass
NVNT	ANT2	802.11g	2412.00	2399.712	-1.158	-32.681	-21.158	Pass
NVNT	ANT1	802.11g	2462.00	2483.920	-1.123	-44.060	-21.123	Pass
NVNT	ANT2	802.11g	2462.00	2483.968	-1.123	-46.107	-21.123	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	-2.404	-33.743	-22.404	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	2399.600	-2.404	-34.714	-22.404	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.584	-2.176	-45.149	-22.176	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	2483.536	-2.176	-43.884	-22.176	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-4.800	-35.029	-24.800	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	2399.760	-4.800	-35.386	-24.800	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2486.060	-3.431	-42.148	-23.431	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	2486.672	-3.431	-42.310	-23.431	Pass



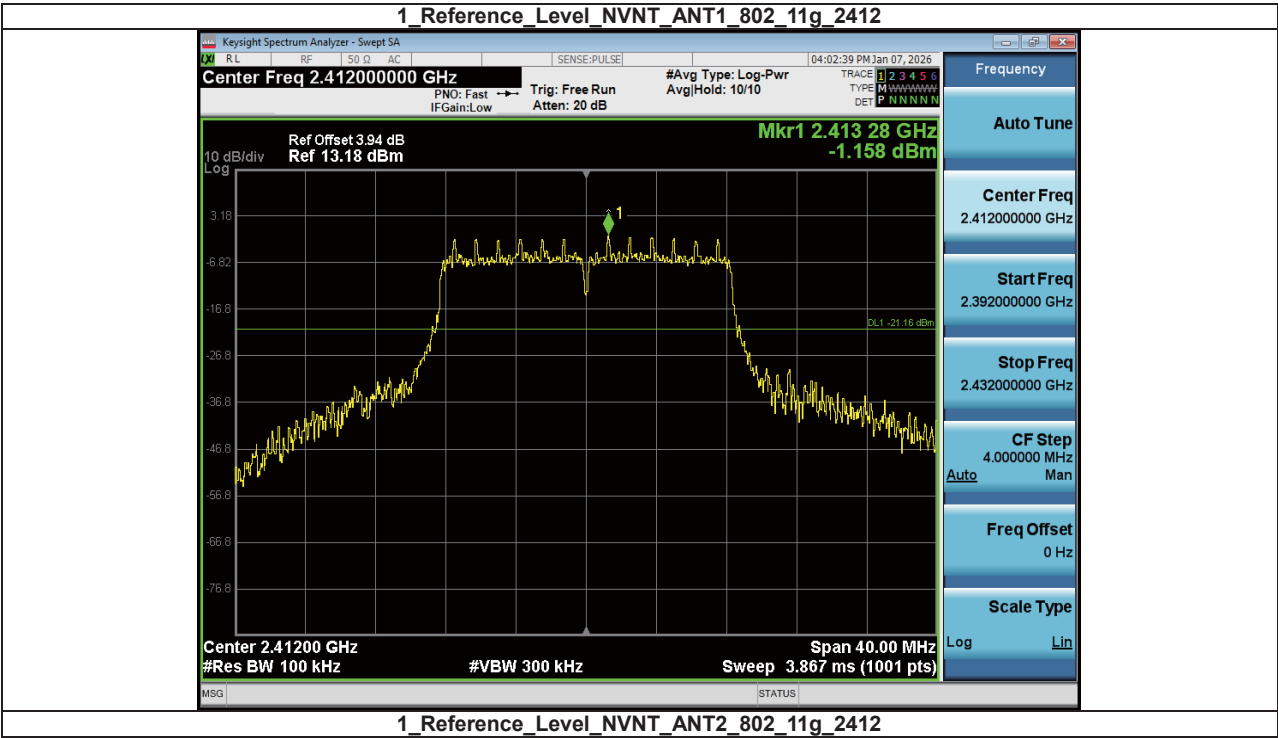
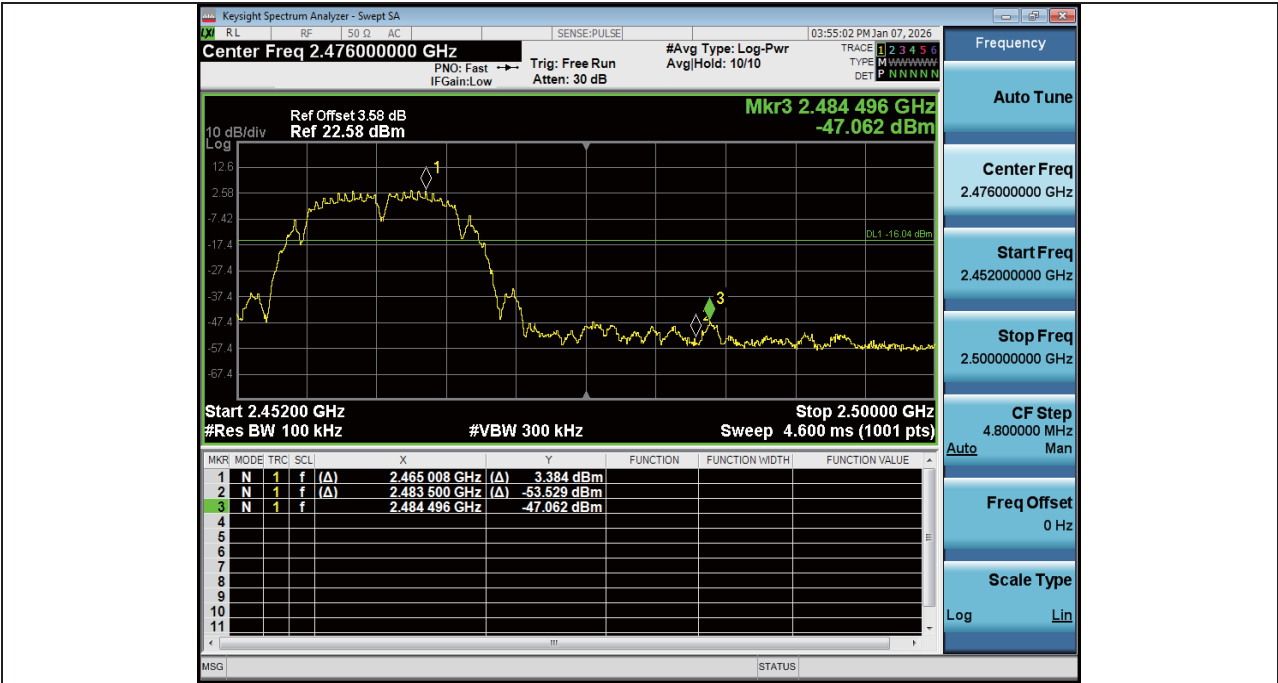


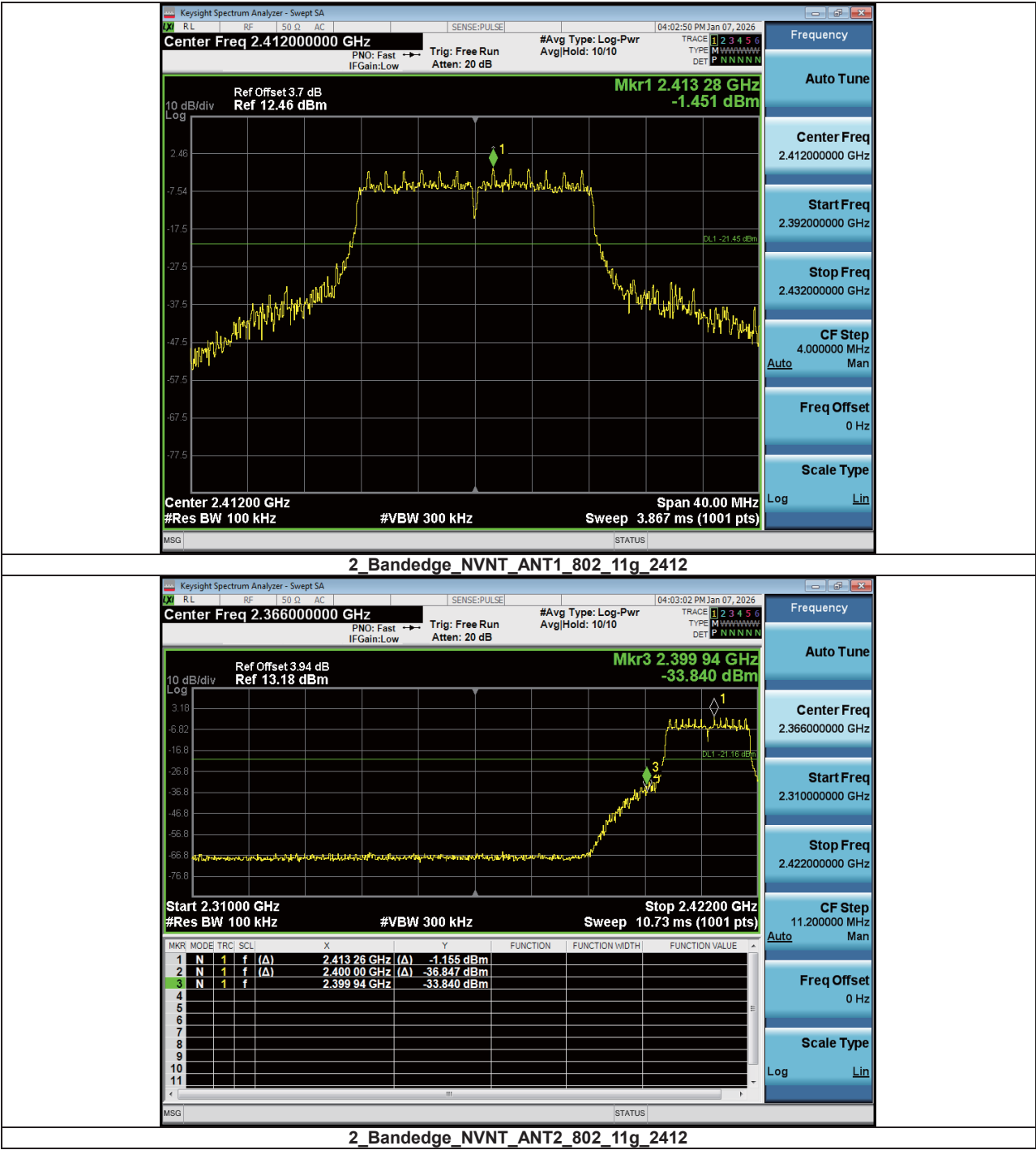
2_Bandedge_NVNT_ANT2_802_11b_2412





2_Bandedge_NVNT_ANT2_802_11b_2462





2_Bandedge_NVNT_ANT2_802_11g_2412

