

FCC CERTIFICATION TEST REPORT

Applicant	:	Subblue Underwater AI Co.,Ltd
Address	:	Building 7, Jinbin Development Industrial Park, #45Muning Road, TEDA.TianJin China.
Manufacturer	:	Subblue Underwater AI Co.,Ltd
Address	:	Building 7, Jinbin Development Industrial Park, #45Muning Road, TEDA.TianJin China.
Equipment under Test	:	Subblue Underwater Scooter
Model No.	:	Vapor Pro Floater
Trade Mark	:	SUBBLUE
FCC ID	:	2ASEE-AP8003-1
Report No.	:	LS-R26032023-12F01
Issue Date	:	May. 25, 2026



LabSure Testing Services (Suzhou) Co., Ltd.

Table of Contents

	Test report declares.....	4
1.	Summary of Test Results.....	6
2.	General Test Information	7
2.1.	Description of EUT	7
2.2.	Accessories of EUT.....	8
2.3.	Assistant equipment used for test.....	8
2.4.	Block diagram of EUT configuration for test.....	8
2.5.	Deviations of test standard.....	8
2.6.	Test environment conditions	8
2.7.	Test laboratory	9
2.8.	Measurement uncertainty.....	9
3.	Equipment Used During Test.....	11
4.	On Time and Duty Cycle.....	12
4.1.	General Information	12
4.2.	Block diagram of test setup.....	12
4.3.	Limits	12
4.4.	Test Procedure.....	12
4.5.	Test Results	12
4.6.	Test graphs	13
5.	6dB Bandwidth and 99% Bandwidth.....	15
5.1.	General Information	15
5.2.	Block diagram of test setup.....	15
5.3.	Limits	15
5.4.	Test Procedure.....	15
5.5.	Test Results	16
5.6.	Test graphs	17
6.	Maximum Conducted Output Power.....	26
6.1.	General Information	26
6.2.	Block diagram of test setup.....	26
6.3.	Limits	26
6.4.	Test Procedure.....	26
6.5.	Test Results	27
6.6.	Test graphs	28
7.	Power Spectral Density.....	32
7.1.	General Information	32
7.2.	Block diagram of test setup.....	32

7.3.	Limits	32
7.4.	Test Procedure	32
7.5.	Test Results	33
7.6.	Test graphs	34
8.	Conducted Band-edge And Spurious Emissions	38
8.1.	General Information	38
8.2.	Block diagram of test setup	38
8.3.	Limits	38
8.4.	Test Procedure	38
8.5.	Test Results	40
9.	Radiated Spurious Emissions	57
9.1.	Block diagram of test setup	57
9.2.	Limit	58
9.3.	Test procedure	60
9.4.	Test result	62
10.	Radiated Band Edge Compliance	118
10.1.	General Information	118
10.2.	Block diagram of test setup	118
10.3.	Limit	118
10.4.	Test procedure	118
10.5.	Test result	119
11.	Power Line Conducted Emission	136
11.1.	General Information	136
11.2.	Block diagram of test setup	136
11.3.	Power line conducted emission limits	136
11.4.	Test procedure	136
11.5.	Test result	137
12.	Antenna Requirements	138
12.1.	Limit	138
12.2.	Result	138
13.	Test Setup Photograph	139
14.	Photos of the EUT	139

Test Report Declare

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Manufacturer	:	Subblue Underwater AI Co.,Ltd
Address	:	Building 7, Jinbin Development Industrial Park, #45Muning Road, TEDA.TianJin China.
Equipment under Test	:	Subblue Underwater Scooter
Model No.	:	Vapor Pro Floater
Trade Mark	:	SUBBLUE

Test Standard Used: 47 CFR FCC Part 15 Subpart C (Part 15.247).

Test procedure used: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a -2024, KDB558074 D01 15.247 Meas Guidance v05r02

We Declare:

The equipment described above is tested by LabSure Testing Services (Suzhou) Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and LabSure Testing Services (Suzhou) Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above standards.

Report No:	LS-Q26032023-12F01		
Sample No:	Y26032023-07, Y26032023-08		
Date of Receipt:	Apr. 07, 2026	Date of Test:	Apr. 07, 2026~ May. 20, 2026

Prepared By:

Bacon Dong

Bacon Dong/Engineer

Reviewed By:

leon wu

Leon Wu/Director

Authorized By:

Chris Zhong

Chris Zhong/Manager

Note:

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of LabSure Testing Services (Suzhou) Co., Ltd. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.

The results reported herein have been performed in accordance with the laboratory's terms of accreditation.

Revision History

Rev.	Revisions	Issue Date	Revised By
V0	Initial issue	May. 25, 2026	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	Standard	Verdict
6dB Bandwidth and 99% Bandwidth	FCC 15.247 (a) (2)	Pass
Maximum Conducted Output Power	FCC 15.247 (b) (3)	Pass
Power Spectral Density	FCC 15.247 (e)	Pass
Band-edge and Spurious Emissions (Conducted)	FCC 15.247 (d)	Pass
Radiated Spurious Emissions	FCC 15.247 (d) FCC 15.209 FCC 15.205	Pass
Radiated Band Edge Compliance	FCC 15.247 (d) FCC 15.209 FCC 15.205	Pass
Power Line Conducted Emission	FCC 15.207	N/A
Antenna Requirement	FCC 15.203	Pass
Note: 1)The measurement result for the sample received is <Pass> according to < ANSI C63.10-2020 +Cor. 1-2023+C63.10a-2024 + Errata to C63.10a -2024, 47 CFR FCC Part 2, KDB558074 D01 15.247 Meas Guidance v05r02, 47 CFR FCC Part 15 Subpart C > when < Simple Acceptance > decision rule is applied.		

2. General Test Information

2.1. Description of EUT

EUT* Name	: Subblue Underwater Scooter
Model Number	: Vapor Pro Floater
EUT Function Description	: Please reference user manual of this device
Power supply	: DC 3.7V by Polymer Li-ion built-in battery
Radio Technology	: IEEE 802.11b/g/n
Operation Frequency	: IEEE 802.11b: 2412MHz-2462MHz IEEE 802.11g: 2412MHz-2462MHz IEEE 802.11n HT20: 2412MHz-2462MHz IEEE 802.11n HT40: 2422MHz-2452MHz
Modulation	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)
Transmitter Rate	: IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20, HT40: MCS0~MCS7
Antenna Type	: FPC Antenna
Antenna Gain	: Max. Peak Antenna Gain: 1.25 dBi (Declare by customer and the lab isn't responsible for the value)

Note1: The lab isn't responsible for the value provide by customer (Such as RF cable loss, antenna gain etc.)

Channel information

For IEEE 802.11b/g/n(HT20)					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

For IEEE 802.11n(HT40)					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
3	2422	6	2437	9	2452
4	2427	7	2442	/	/
5	2432	8	2447	/	/

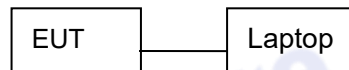
2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
N/A	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
Notebook	Lenovo	Xiaoxin 14c RH10	FCC/CE	N/A

2.4. Block diagram of EUT configuration for test



Test software: EspRFTTestTool, Version: v4.7

The test software was used to control EUT work in Continuous Tx mode and Rx mode, and select test channel, wireless mode as below table.

The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

Tested mode, channel, setting Tx power and rand data rate information				
Mode	Setting Tx Power	Data rate (Mbps) (See Note)	Channel	Frequency (MHz)
IEEE 802.11b	14	1	LCH: CH1	2412
	10	1	MCH: CH6	2437
	10	1	HCH: CH11	2462
IEEE 802.11g	24	6	LCH: CH1	2412
	20	6	MCH: CH6	2437
	20	6	HCH: CH11	2462
IEEE 802.11n HT20	16	MCS 0	LCH: CH1	2412
	12	MCS 0	MCH: CH6	2437
	12	MCS 0	HCH: CH11	2462
IEEE 802.11n HT40	10	MCS 0	LCH: CH3	2422
	10	MCS 0	MCH: CH6	2437
	10	MCS 0	HCH: CH9	2452
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.				

2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Environment Parameter	Selected Values During Tests	
Relative Humidity	45% to 75%	
Atmospheric Pressure:	86 kPa to 106 kPa	
Temperature	TN	+20 °C to +28 °C
Voltage:	VL	N/A
	VN	DC 3.7V
	VH	N/A

Note: VL= Lower Extreme Test Voltage

VN= Nominal Voltage

VH= Upper Extreme Test Voltage

TN= Normal Temperature

2.7. Test laboratory

Lab Information	Company Name: LabSure Testing Services (Suzhou) Co., Ltd. Address: Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China. Tel: +86-0512-62531270, E-mail: labsure@lab-sure.com, www.lab-sure.com
Accreditation Certificate	A2LA (Certificate No.: 7346.01) LabSure Testing Services (Suzhou) Co., Ltd.. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1397) LabSure Testing Services (Suzhou) Co., Ltd.. has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 32952; CAB No.:CN0182) LabSure Testing Services (Suzhou) Co., Ltd.. has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
Note 1: All tests measurement facilities use to collect the measurement data are located at Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, China. Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS. Note 3: The test anechoic chamber in LabSure Testing Services (Suzhou) Co., Ltd. had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.	

2.8. Measurement uncertainty

Test Item	Uncertainty
DTS Bandwidth	±1.9 %
Maximum Conducted Output Power	± 0.69dB
Maximum Power Spectral Density Level	±1.5 dB
Band-edge Compliance	± 1.9%
Conducted Spurious Emissions	9KHz-30MHz:±0.90dB

	30MHz-1GHz:±1.5 dB
	1GHz-12.75GHz: ±1.9dB
	12.75GHz-26.5GHz: ±2.1dB
Uncertainty for Radiation Emission Test (9kHz - 1 GHz)	9kHz-30MHz: 3.4 dB
	30MHz-1000MHz: 2.4 dB
Uncertainty for Radiation Emission Test (1 GHz - 40 GHz)	1GHz - 18 GHz:3.1 dB
	18GHz - 40 GHz: 4.3 dB
Uncertainty for Power Line Conduction Emission Test	3.0 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Test

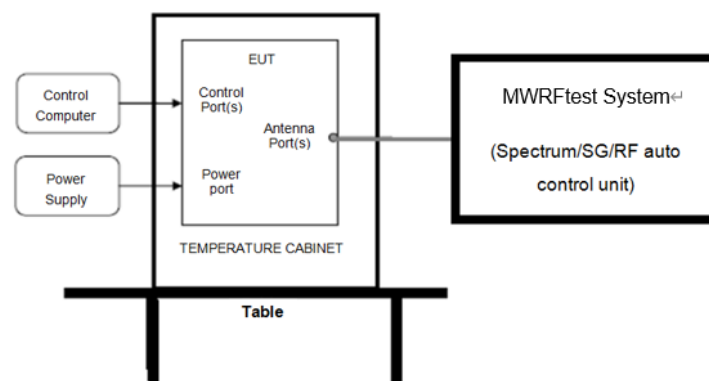
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Conducted Test					
EXG Analog Signal Generator (9kHz-32GHz)	Keysight	N5173B	MY53270968	2026/02/11	1 Year
MXG Vector Signal Generator (100kHz-6GHz)	Agilent	N5182A	MY50143288	2026/02/11	1 Year
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	1201.0002K50-158800-Qi	2026/02/11	1 Year
PXA Signal Analyzer (3Hz-44GHz)	Keysight	N9030B	MY56320639	2026/03/14	1 Year
Temperature, humidity and pressure recorder	Huahanwei	THP40W-E	c0222020002d	2026/03/02	1 Year
RF Test Software	MWRFTest	MTS 8310	2.0.0.0	N/A	N/A
Radiated Spurious Emission 3m EMI Chamber					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
3m Anechoic Chamber	CeRuiTong	3m-SAC	N/A	2024/05/10	3 Year
Loop antenna (9kHz-30MHz)	SCHWARZBEC K	FMZB1519-60 D	00058	2024/11/05	3 Year
EMI Test Receiver	R&S	ESC17	101138	2026/01/25	1 Year
Signal Analyzer	R&S	FSV40-N	101730	2026/01/25	1 Year
Hybrid antenna	TESEQ	CBL6141B	27421	2024/01/10	3 Year
Horn Antenna	ETS-Lindgren	3117	157735	2024/01/19	3 Year
Active Horn Antenna	Com-Power	AHA-840	10100024	2023/10/16	3 Year
Pre-Amplifier_HF	COM-MW	DPA8-1000-18 000-1012	05231257	2026/01/25	1 Year
Low Noise Amplifier	Tonscend	TAP10M1G40 N	806JSAP0399 04251006	2026/01/25	1 Year
Temperature, humidity and pressure recorder	Huahanwei	TH10R	c00286000EE1	2026/1/29	1 Year
Test software	TONSCEND	JS36-RSE	5.0.0	N/A	N/A
Power Line Conducted Emissions Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Shielding Room 1	Tai He Mao Rui	N/A	N/A	2024/01/25	3 Year
EMI Test Receiver	Rohde & Schwarz	ESC13	101705	2026/01/25	1 Year
Two-Line V-Network	Rohde & Schwarz	ENV216	101064	2026/01/25	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	102704	2026/01/25	1 Year
Temperature, humidity and pressure recorder	HuaHanWei	THP40W-E	c0222020002 E	2026/01/25	1 Year
Test software	TONSCEND	JS32-CE	5.0.0	N/A	N/A

4. On Time and Duty Cycle

4.1. General Information

Test date	2026-05-13	Test engineer	Jimmy Qu	
Climate condition	Ambient temperature	22.5℃	Relative humidity	59.2%
	Atmospheric pressure	101.8kPa		
Test place	EMC Room 1#			

4.2. Block diagram of test setup



4.3. Limits

None; for reporting purposes only.

4.4. Test Procedure

Refer to ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 clause 11.6

4.5. Test Results

TEST RESULT TABLE

Mode	On Time (ms)	Period (ms)	Duty Cycle x (Linear)	Duty Cycle(%)	Duty Cycle Correction Factor(db)
11B	1	1	1	100	0
11G	1	1	1	100	0
802.11N HT20	1	1	1	100	0
802.11N HT40	1	1	1	100	0

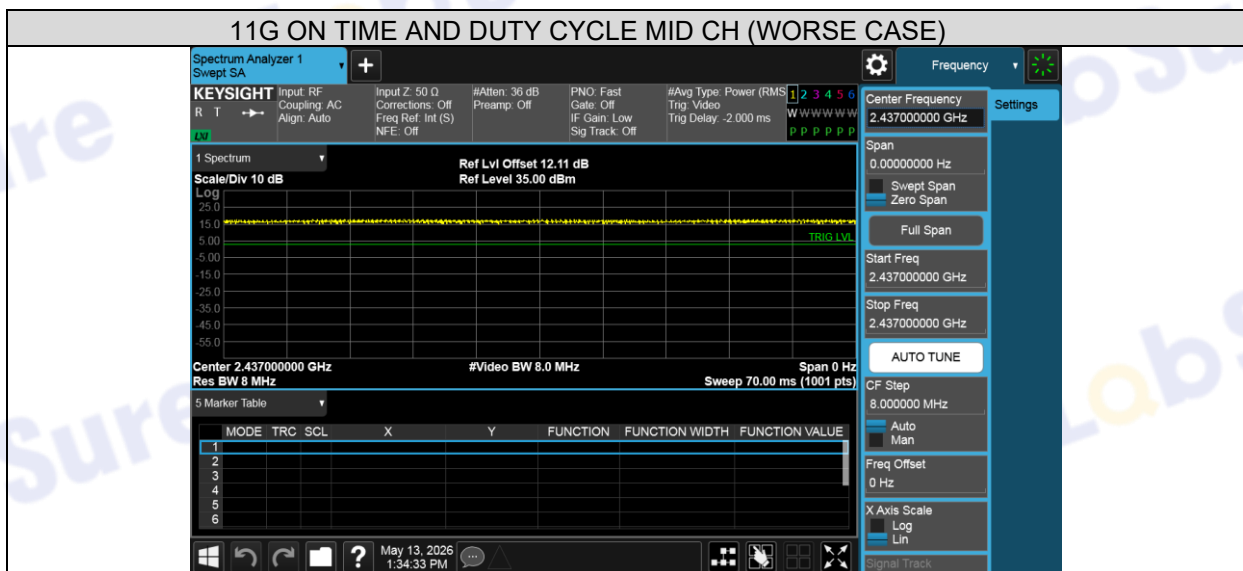
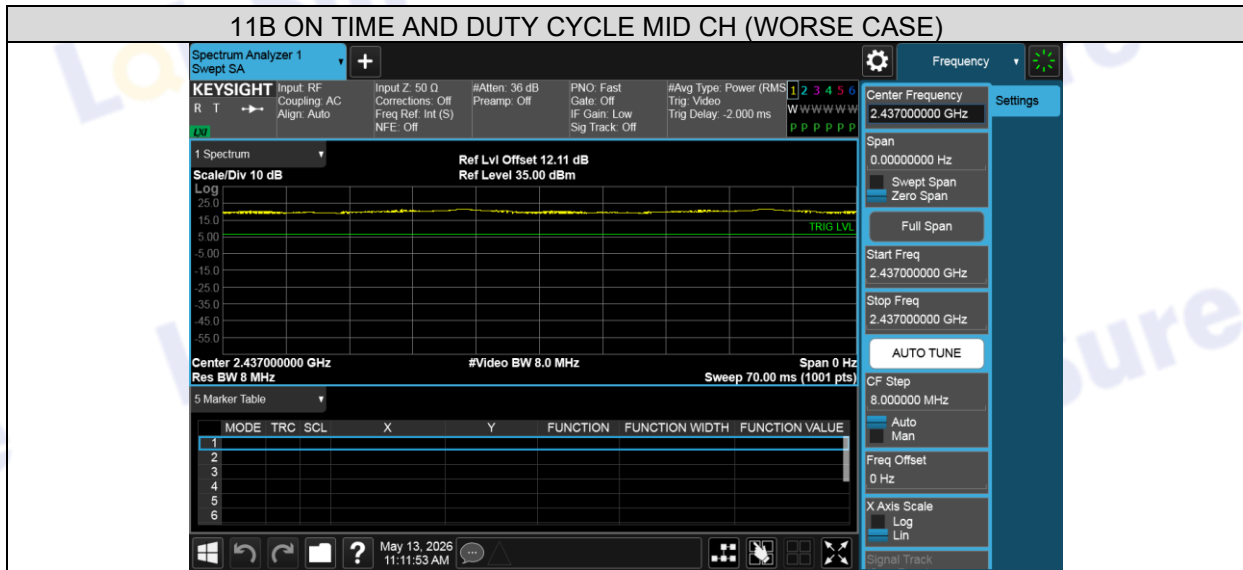
Note: 1) Duty Cycle Correction Factor=10log(1/x).

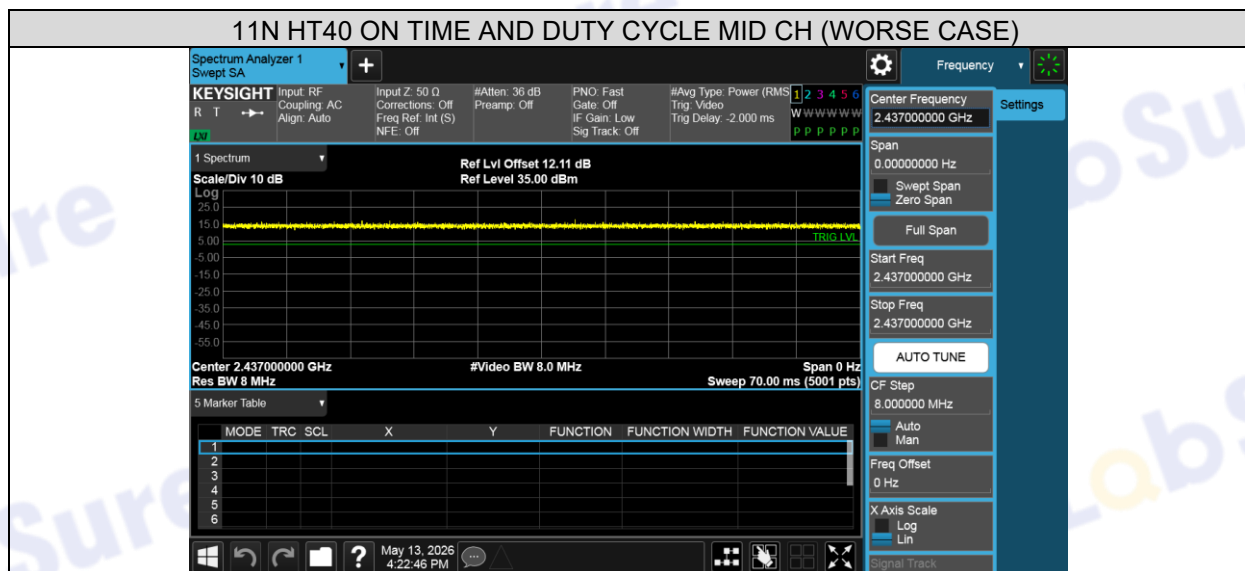
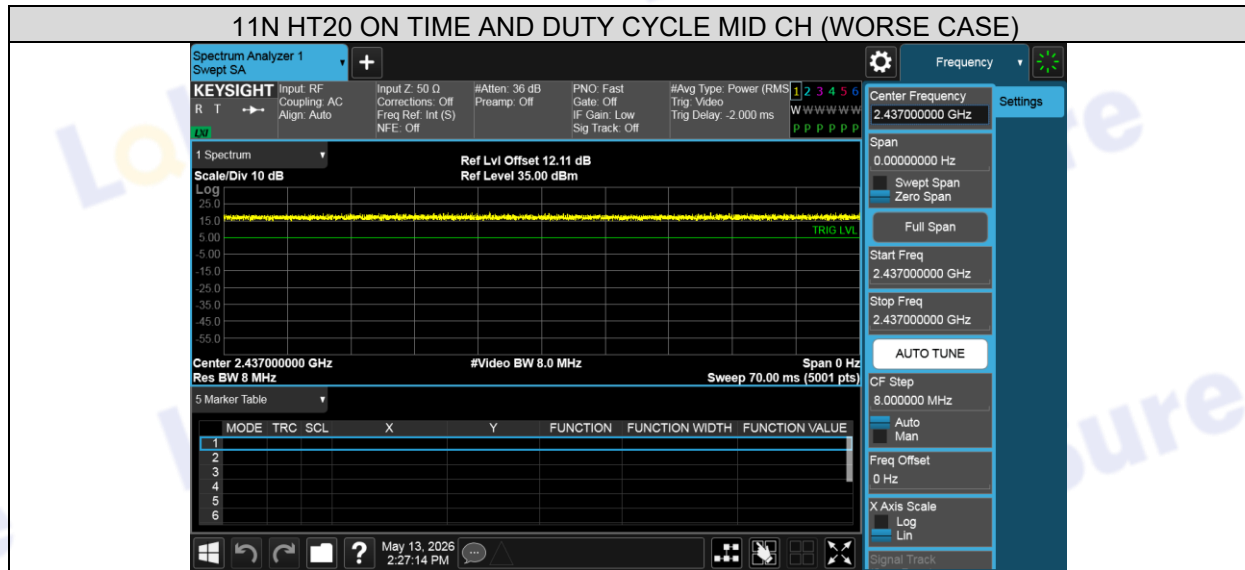
2) Where: x is Duty Cycle (Linear)

3) Where: T is On Time (transmit duration)

4) If the duty cycle is above 98%, the Final VBW is 10Hz.

4.6. Test graphs



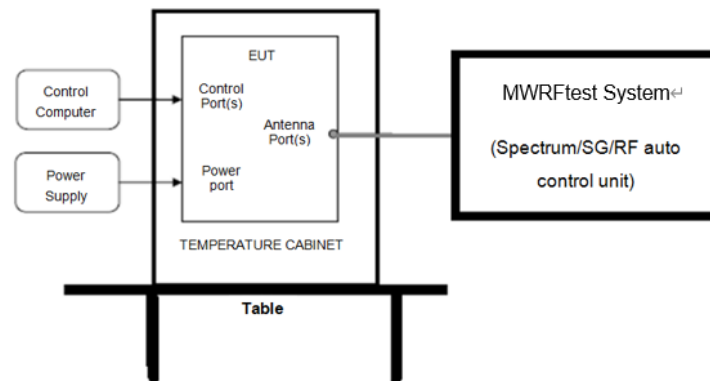


5. 6dB Bandwidth and 99% Bandwidth

5.1. General Information

Test date	2026-05-13	Test engineer	Jimmy Qu	
Climate condition	Ambient temperature	22.5℃	Relative humidity	59.2%
	Atmospheric pressure	101.8kPa		
Test place	EMC Room 1#			

5.2. Block diagram of test setup



5.3. Limits

FCC Part15 (15.247), Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
47 CFR FCC Part15.247(a)(2)	6dB Bandwidth	$\geq 500\text{kHz}$	2400-2483.5

5.4. Test Procedure

Refer to ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 clause 6.9.3 & 11.8

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) 99% Bandwidth set the spectrum analyzer as follows:

RBW:	1% to 5% of the OBW
VBW:	Three times the RBW
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) 6dB Bandwidth set the spectrum analyzer as follows:

RBW: 100 kHz
 VBW: 300 kHz
 Detector Mode: Peak
 Sweep time: auto
 Trace mode: Max hold

- (4) Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

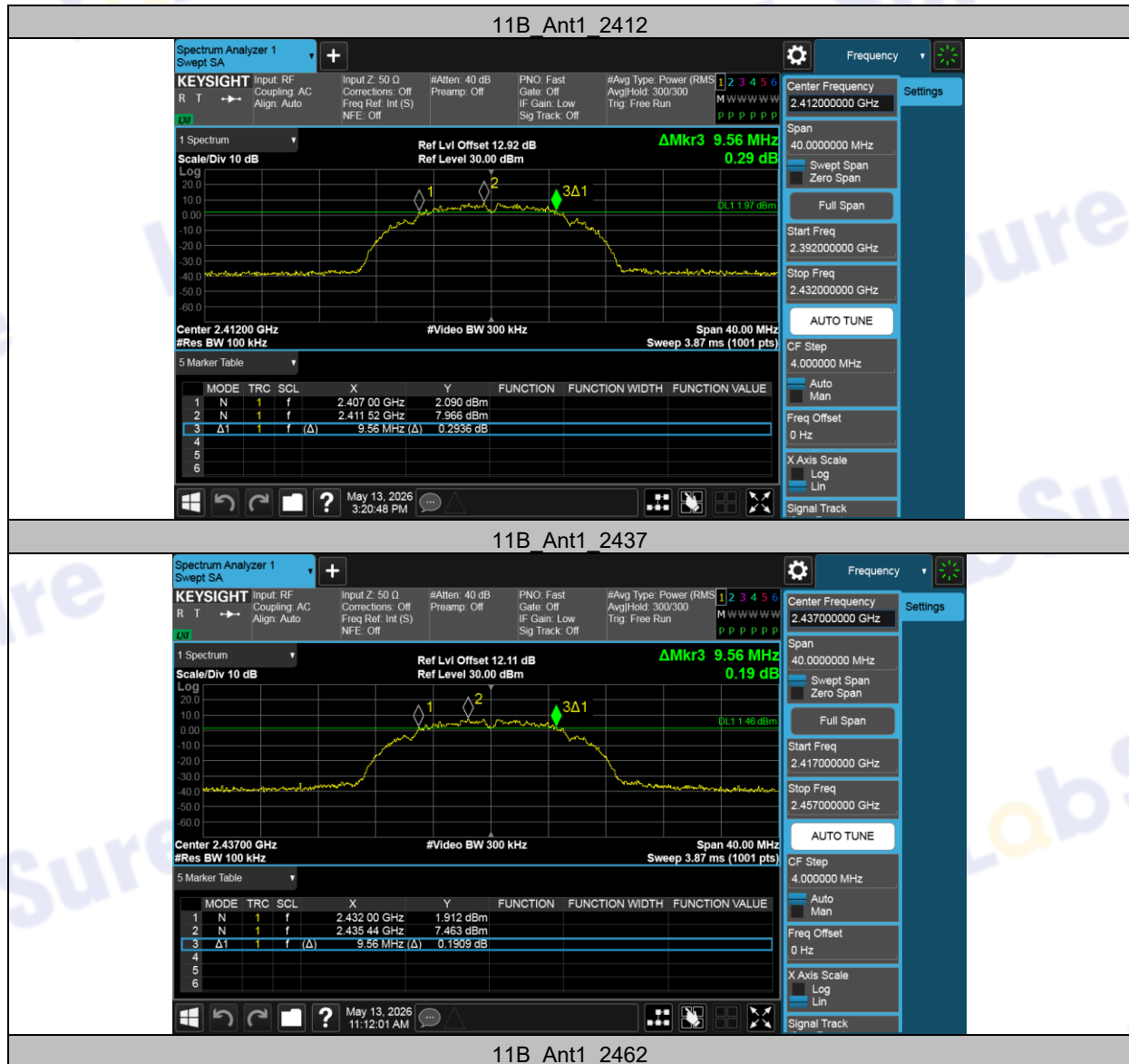
5.5. Test Results

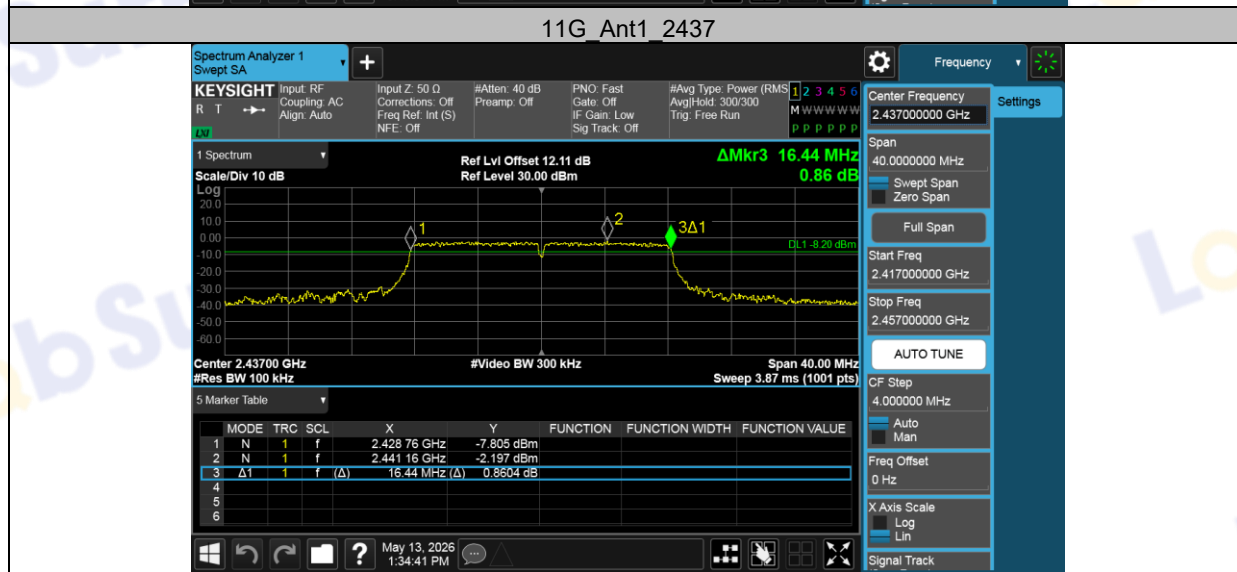
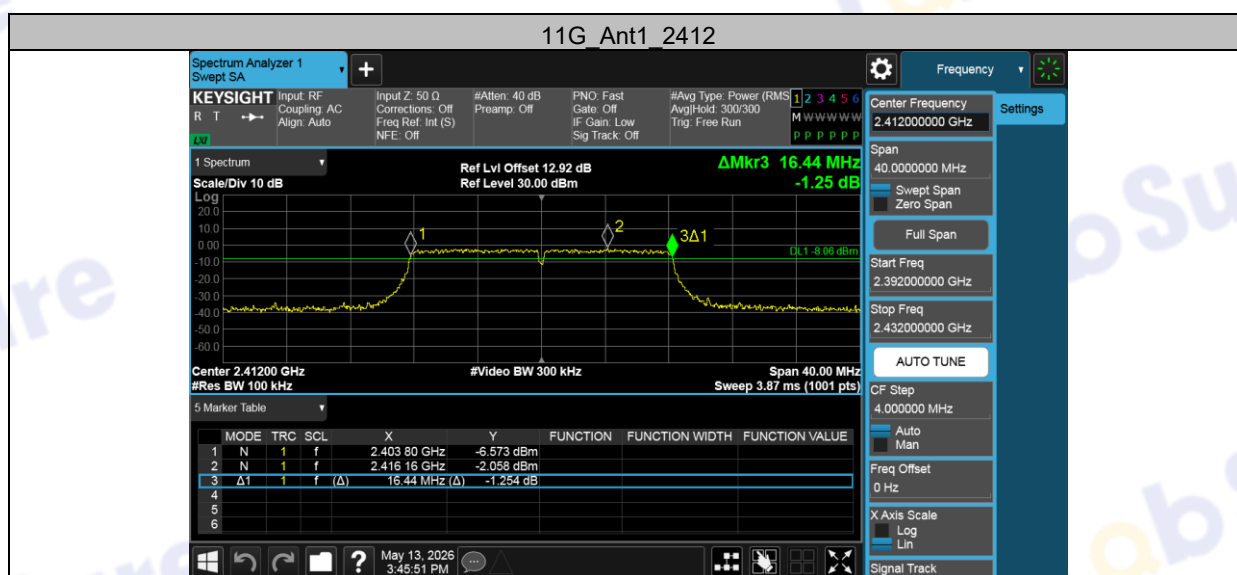
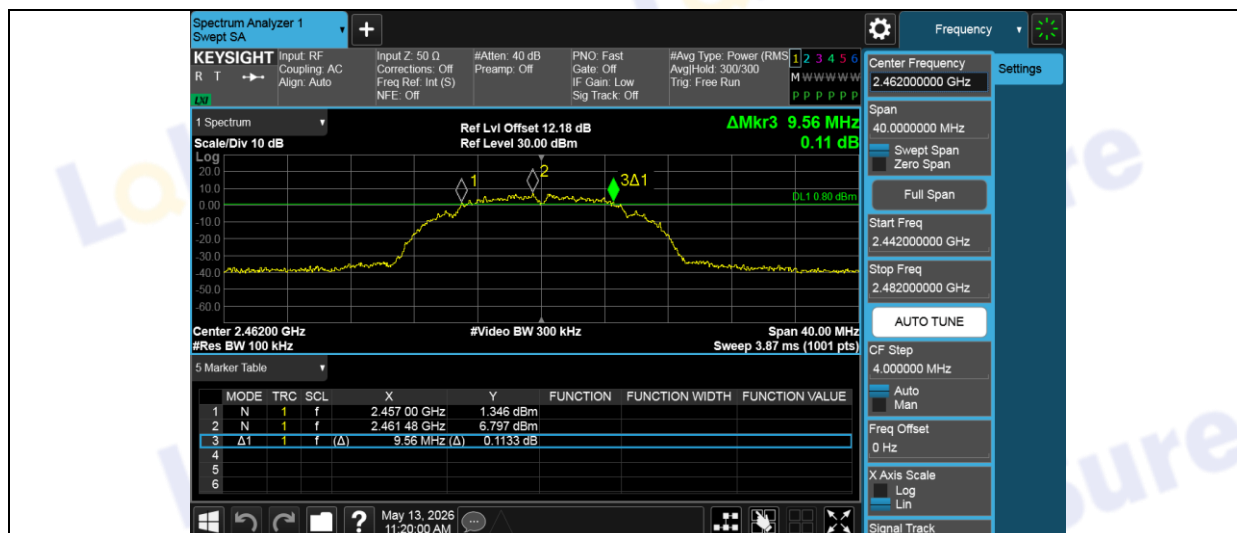
TEST RESULT TABLE

Test Mode	Test Channel	6dB bandwidth (MHz)	99% bandwidth (MHz)	Result
11B	LCH	9.560	13.107	Pass
	MCH	9.560	13.096	Pass
	HCH	9.560	13.188	Pass
11G	LCH	16.440	16.551	Pass
	MCH	16.440	16.580	Pass
	HCH	16.440	16.654	Pass
11N HT20	LCH	17.160	17.353	Pass
	MCH	17.320	17.383	Pass
	HCH	17.120	17.428	Pass
11N HT40	LCH	33.280	34.512	Pass
	MCH	32.880	34.454	Pass
	HCH	32.720	34.543	Pass

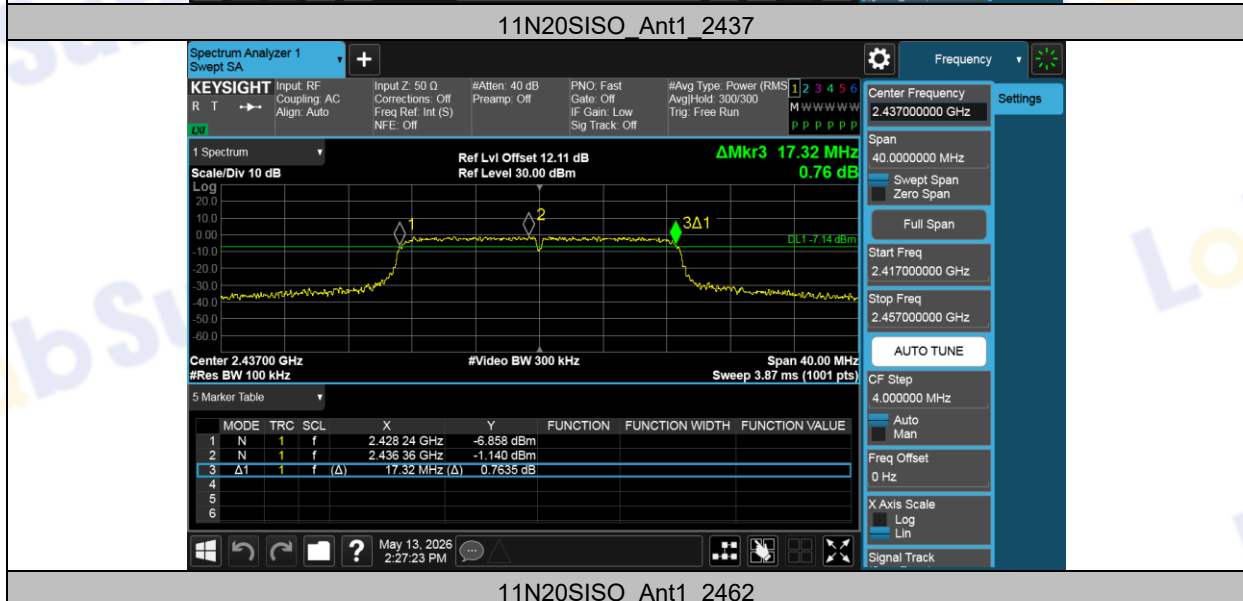
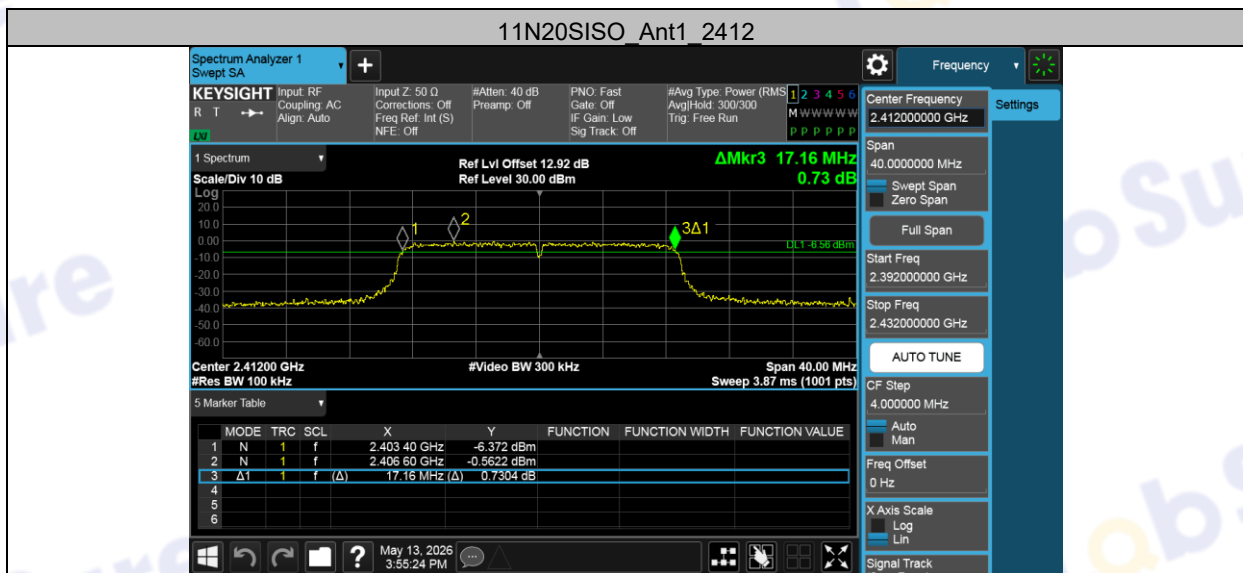
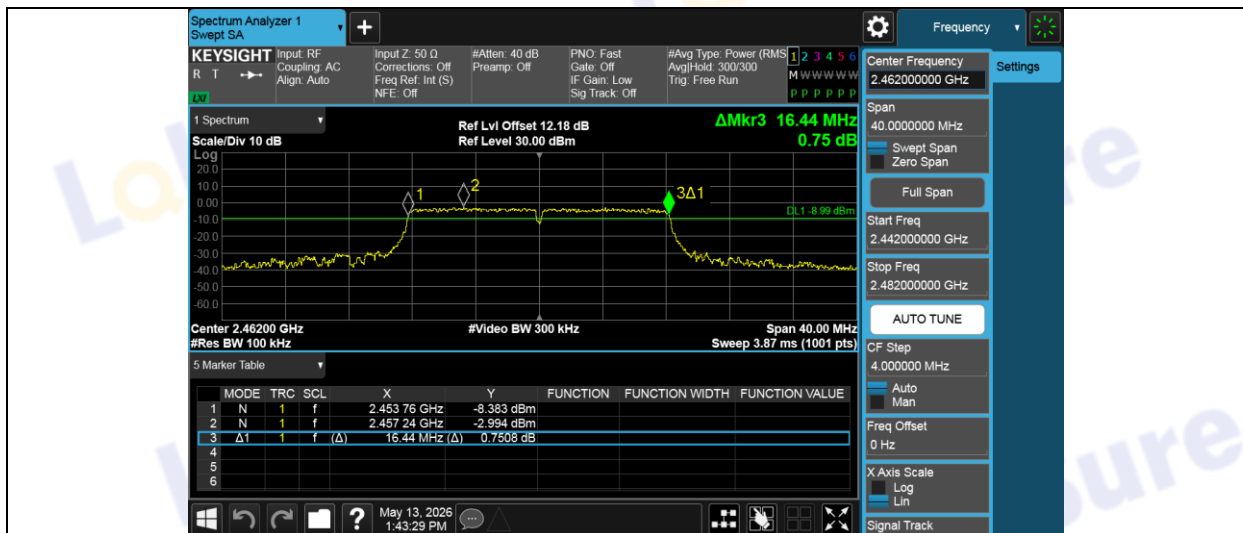
5.6. Test graphs

Part I: 6dB Bandwidth:

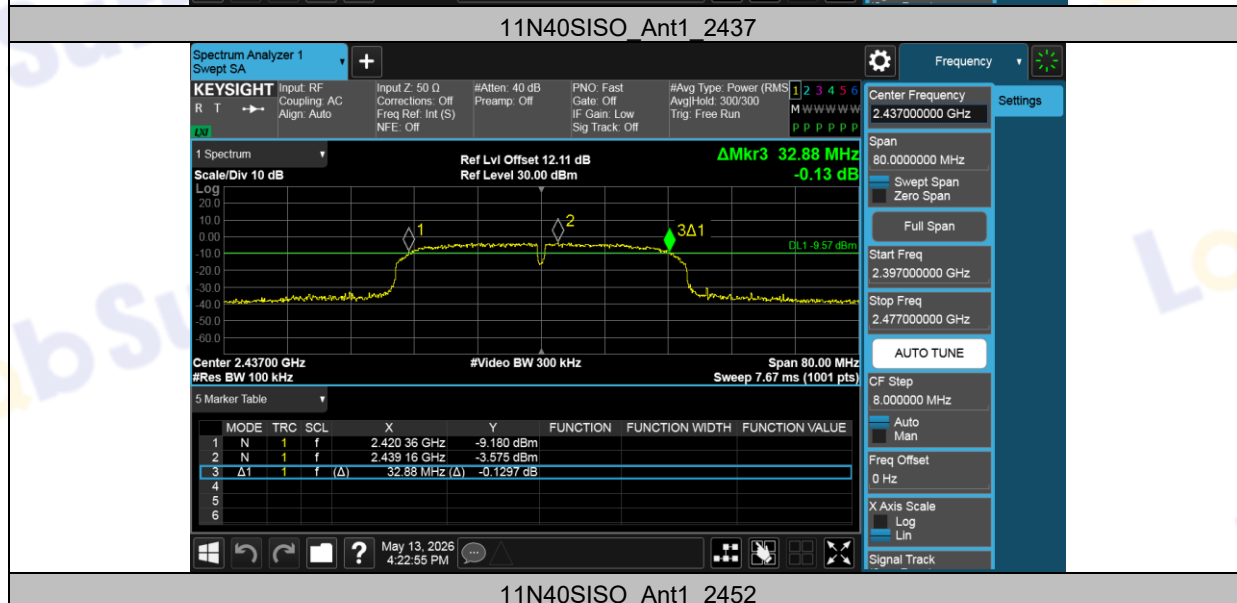
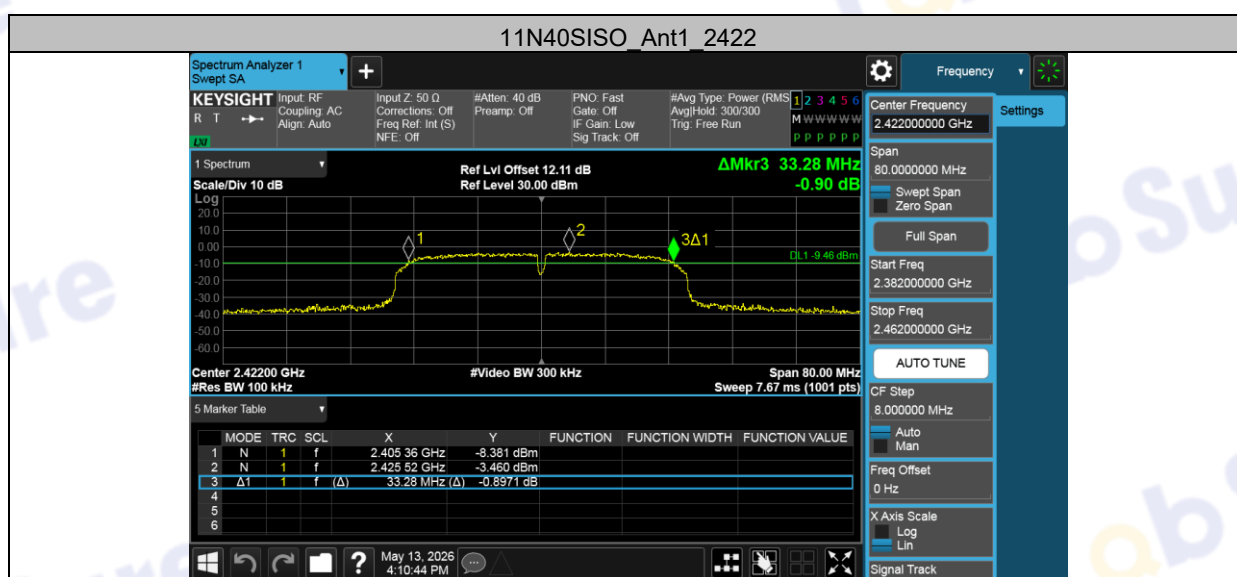
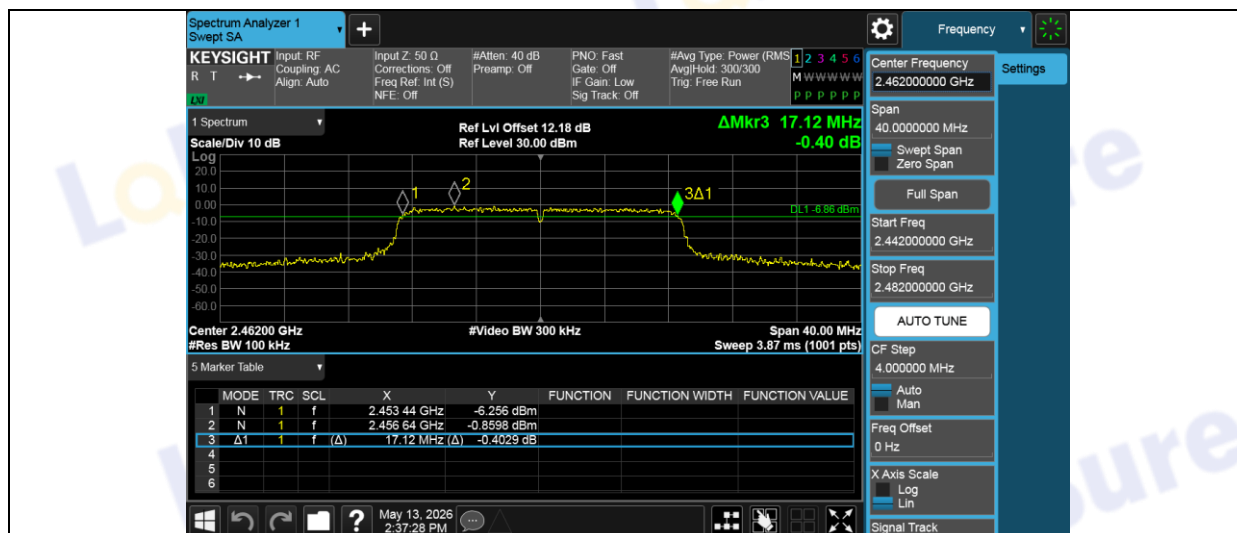




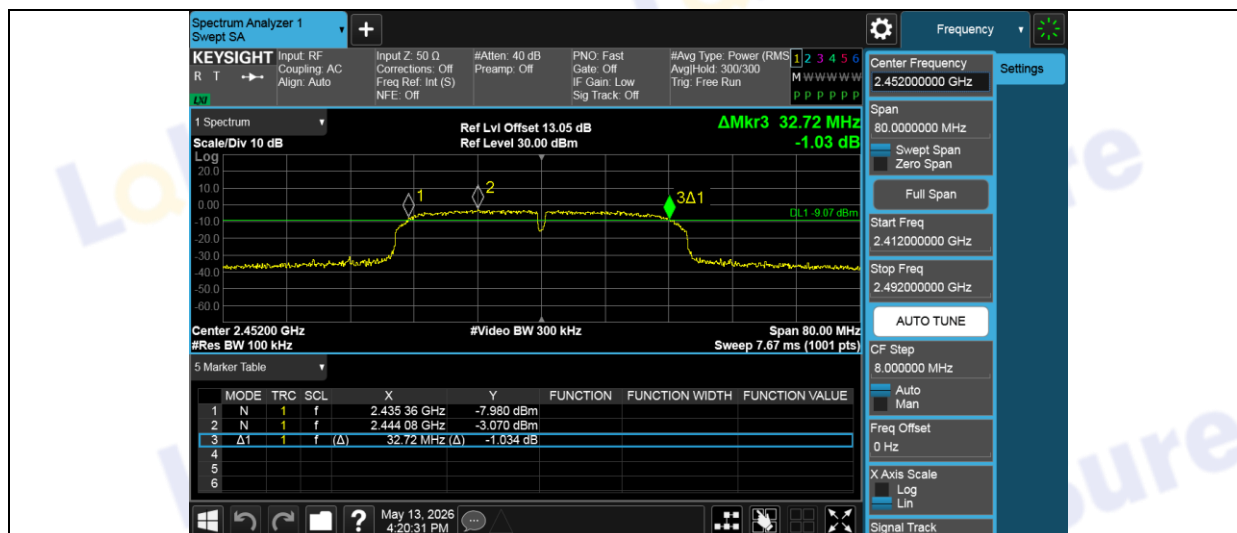
11G Ant1 2462



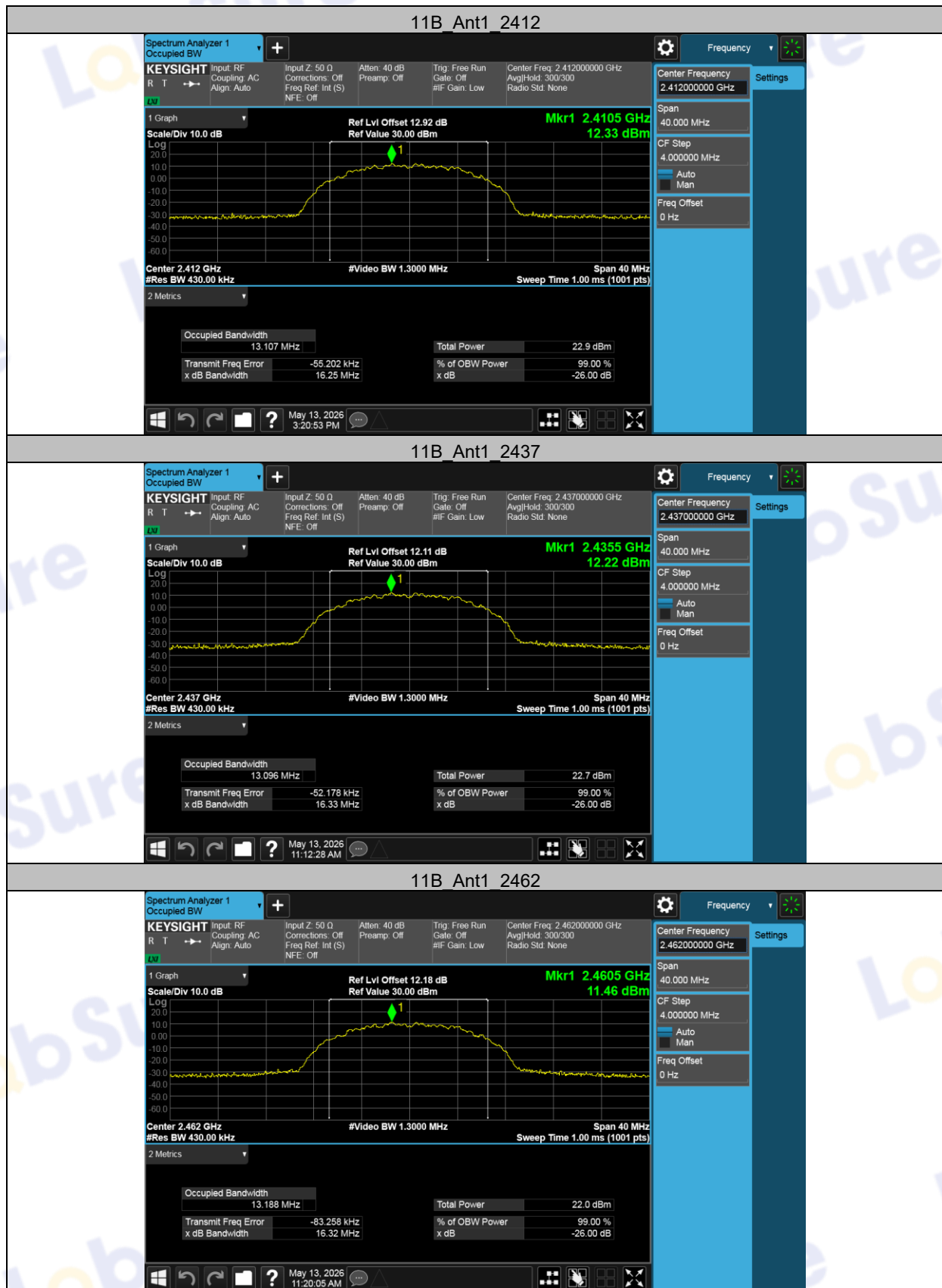
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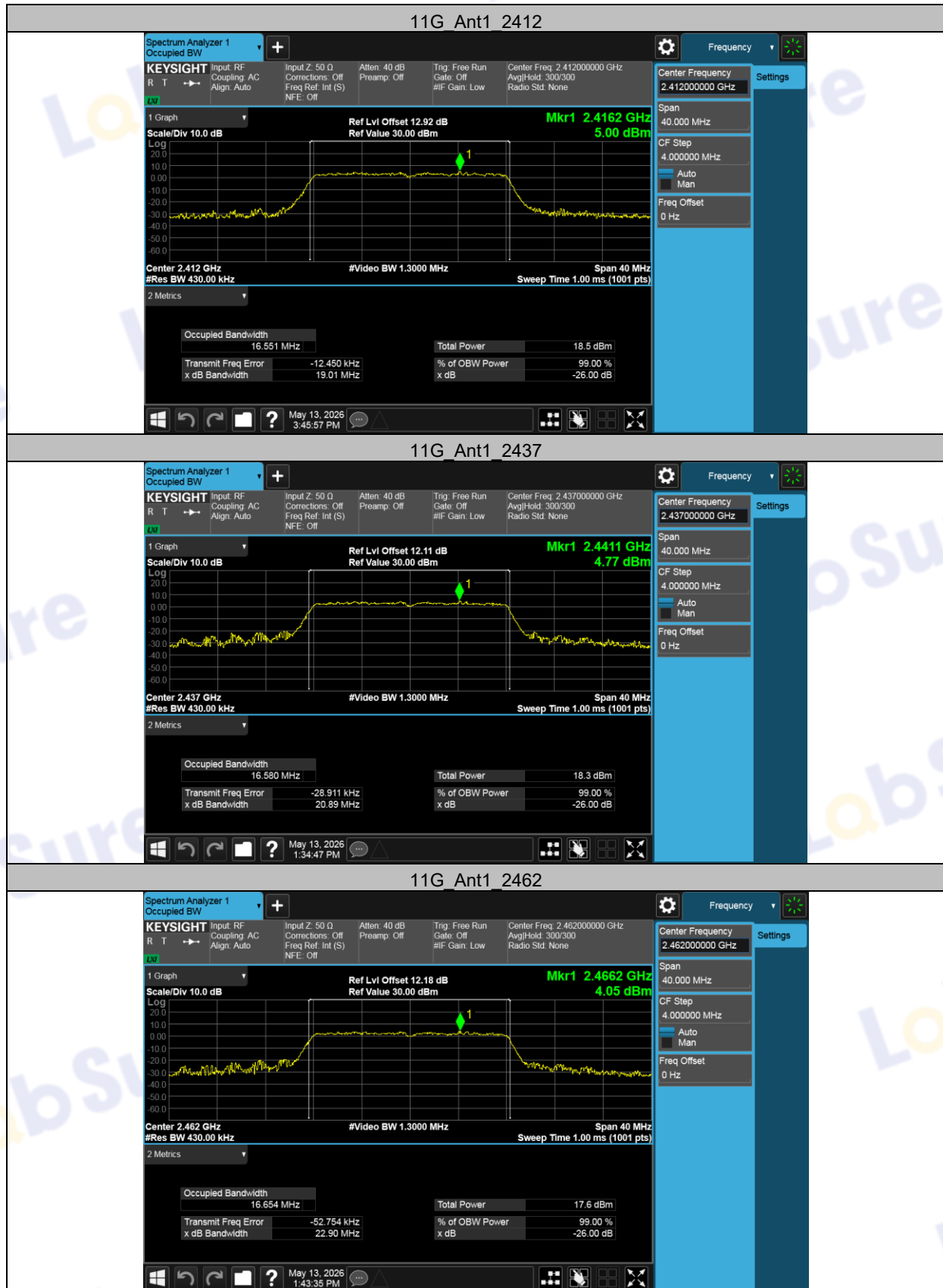


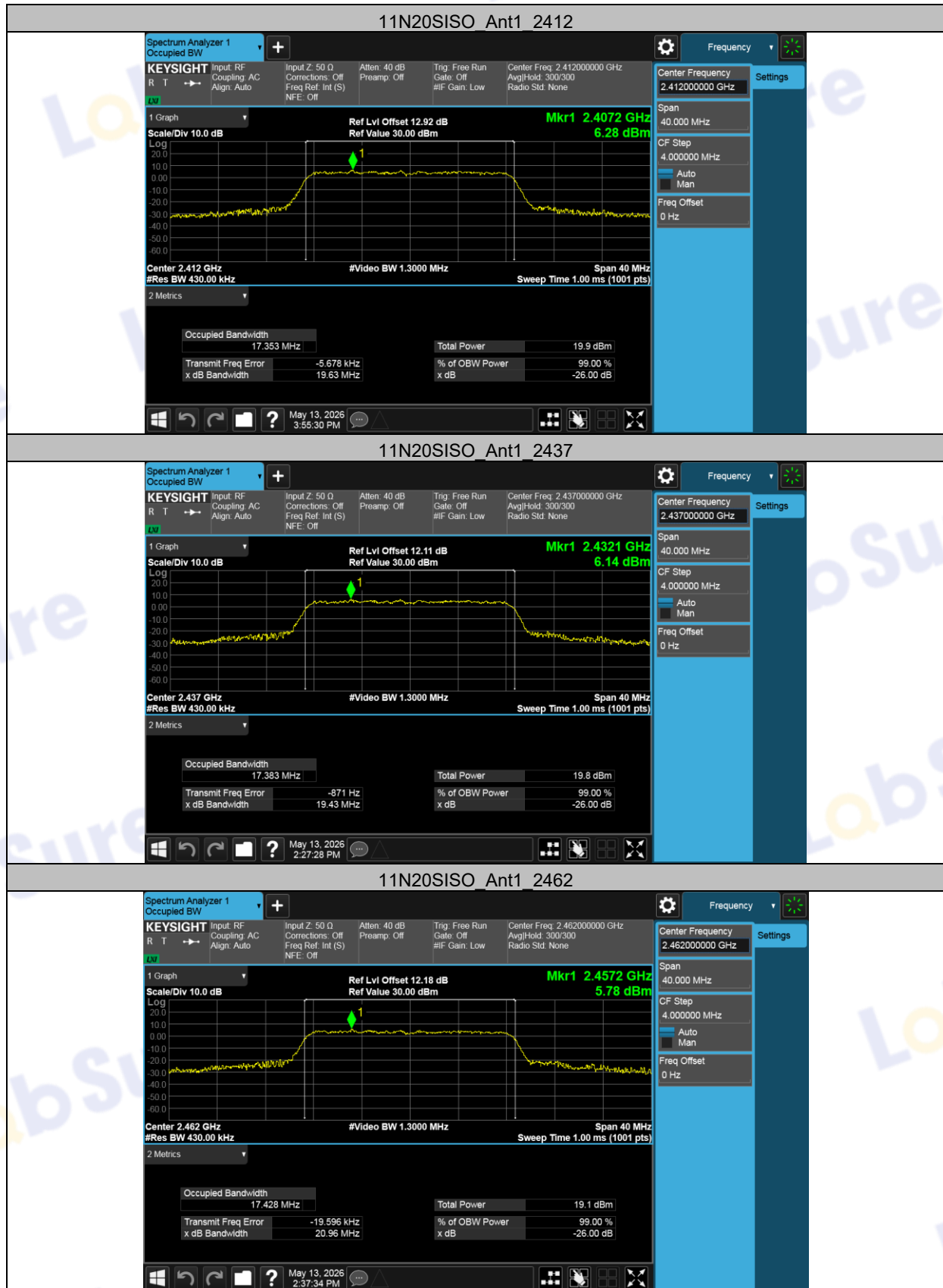
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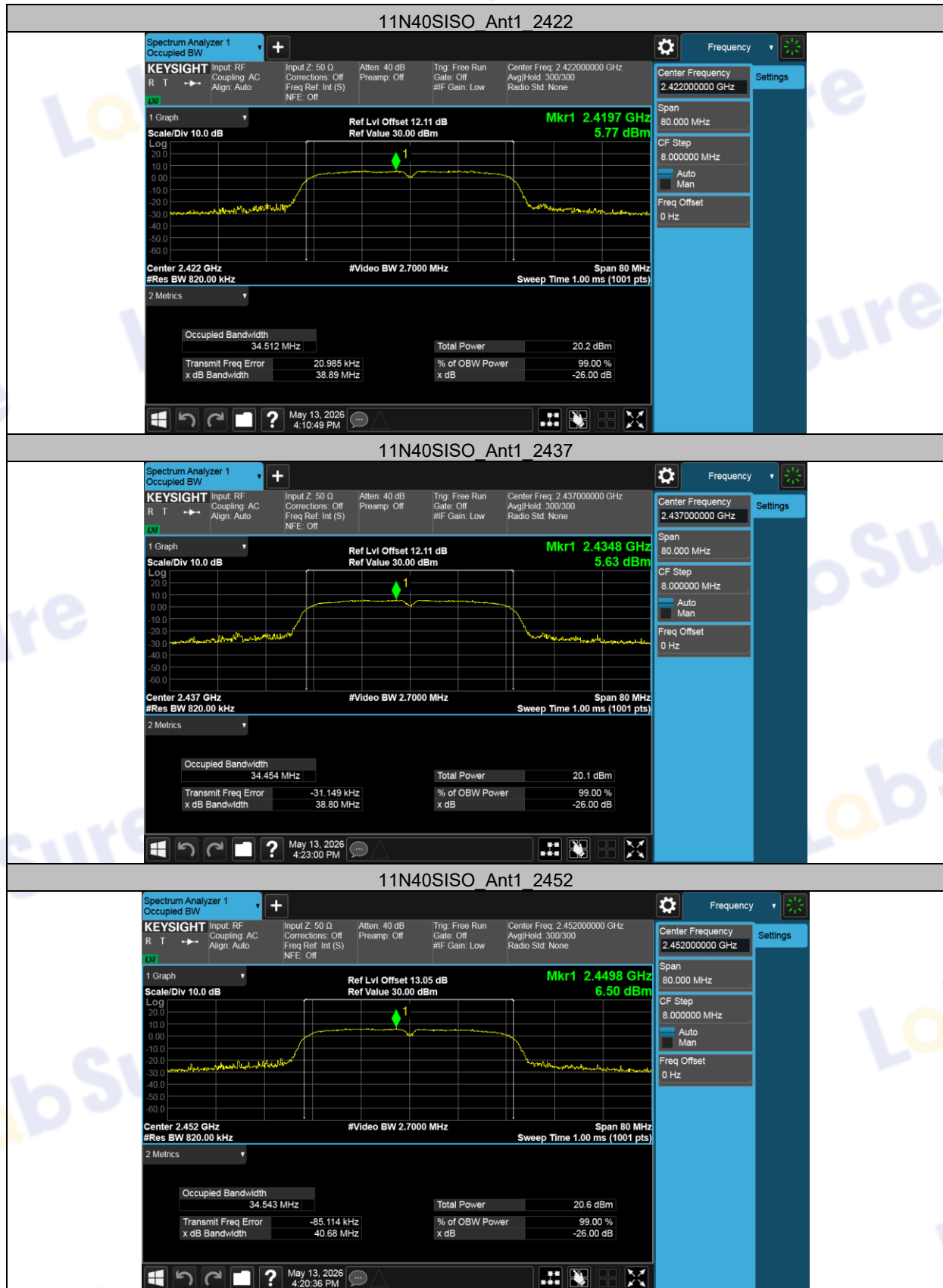


PART II: 99% Bandwidth:







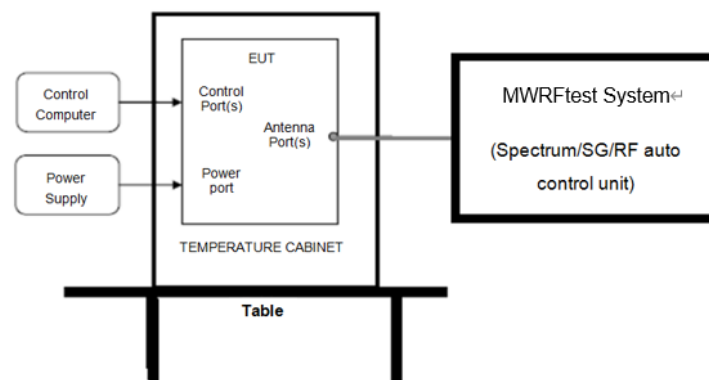


6. Maximum Conducted Output Power

6.1. General Information

Test date	2026-05-13	Test engineer	Jimmy Qu	
Climate condition	Ambient temperature	22.5℃	Relative humidity	59.2%
	Atmospheric pressure	101.8kPa		
Test place	EMC Room 1#			

6.2. Block diagram of test setup



6.3. Limits

FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5

6.4. Test Procedure

Refer to ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 clause 11.9.2.2.4

Method AVGSA-2 uses trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction. The procedure for this method is as follows:

- Measure the duty cycle D of the transmitter output signal as described in 11.6.
- Set span to at least 1.5 times the OBW.
- Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.

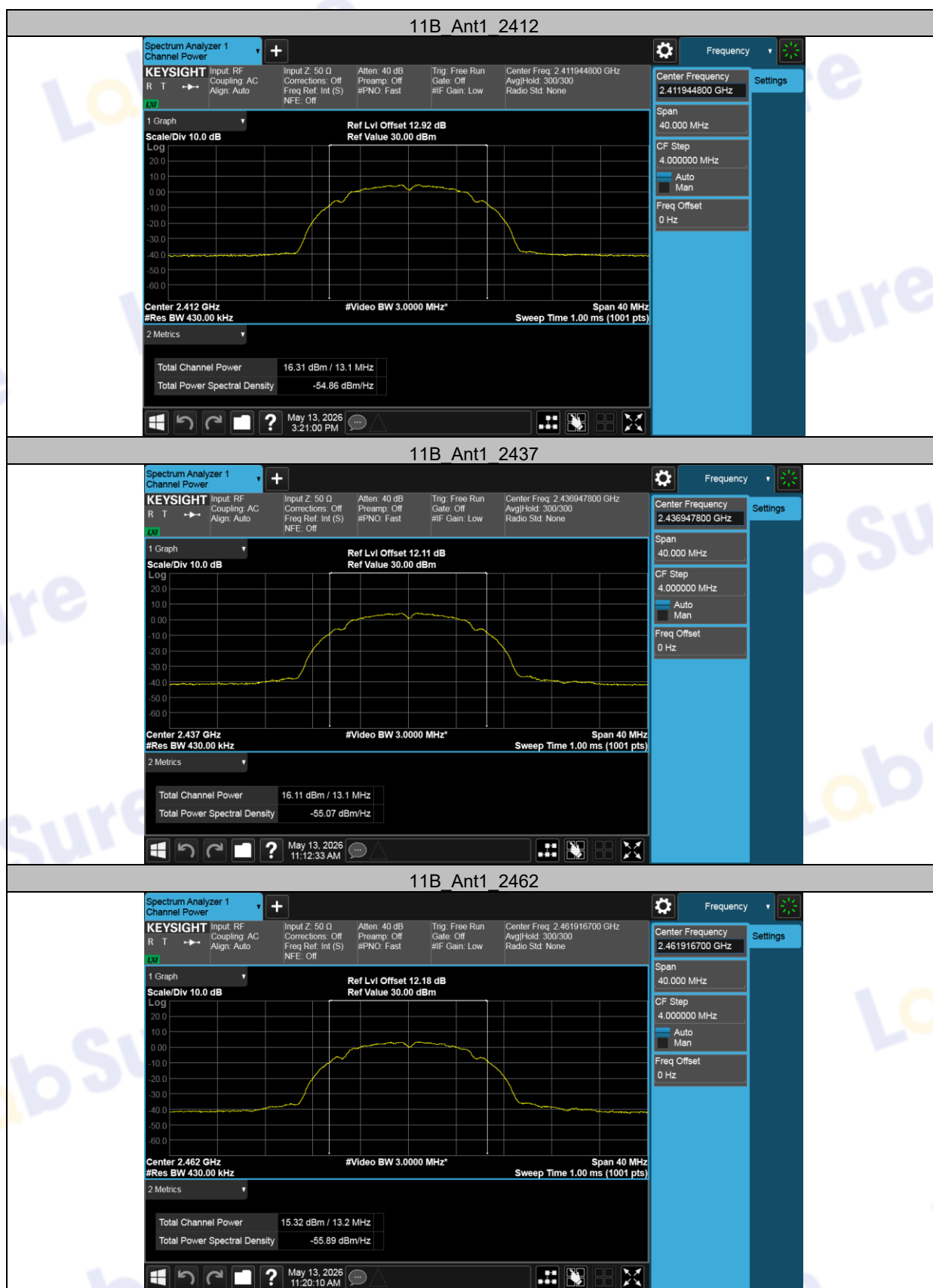
- d) Set VBW $\geq [3 \times \text{RBW}]$.
- e) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- f) Sweep time = auto.
- g) Detector = RMS (i.e., power averaging), if available. Otherwise, use the sample detector mode.
- h) Do not use sweep triggering. Allow the sweep to “free run.”
- i) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
- j) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- k) Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is 25%.

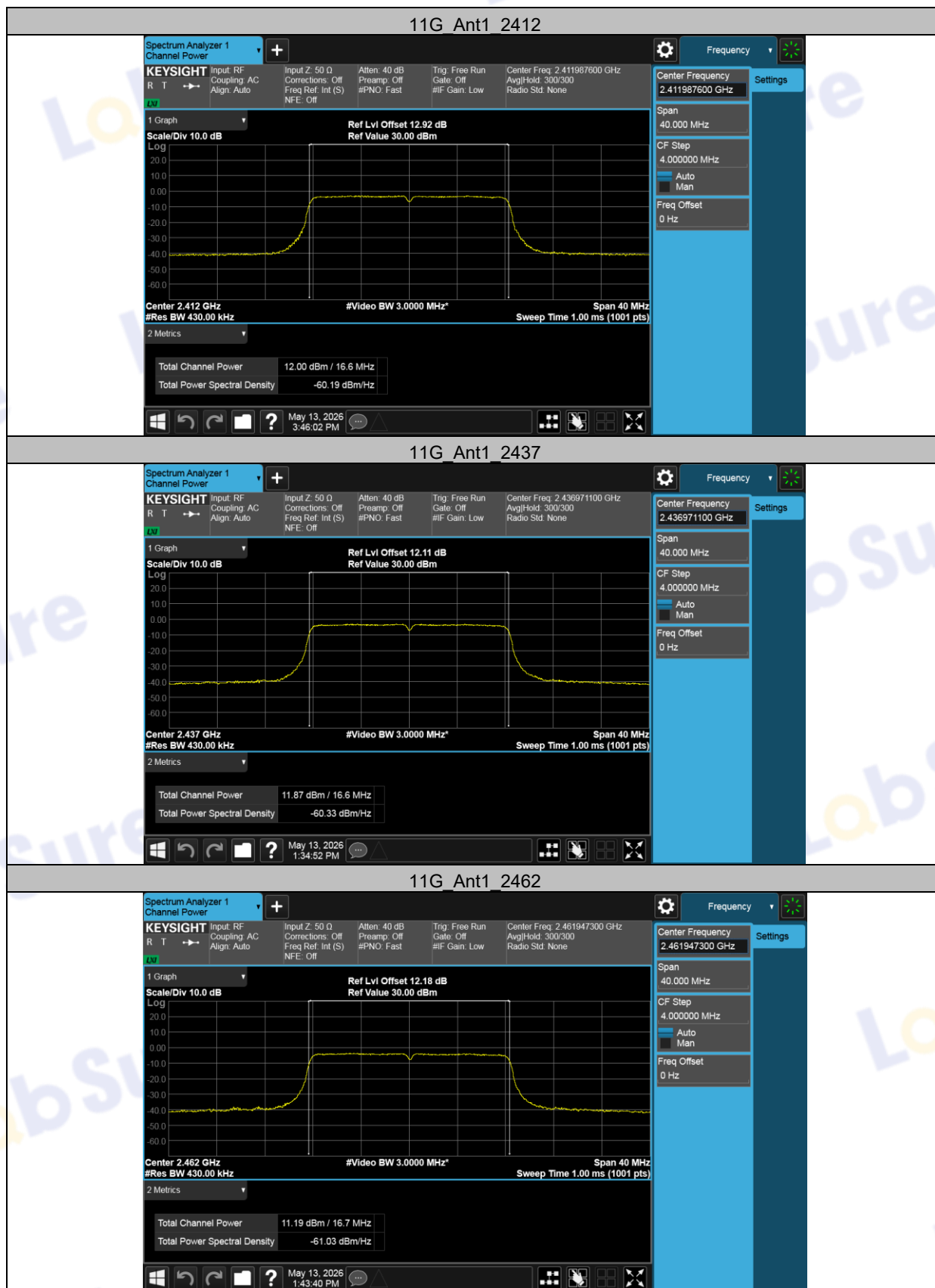
6.5. Test Results

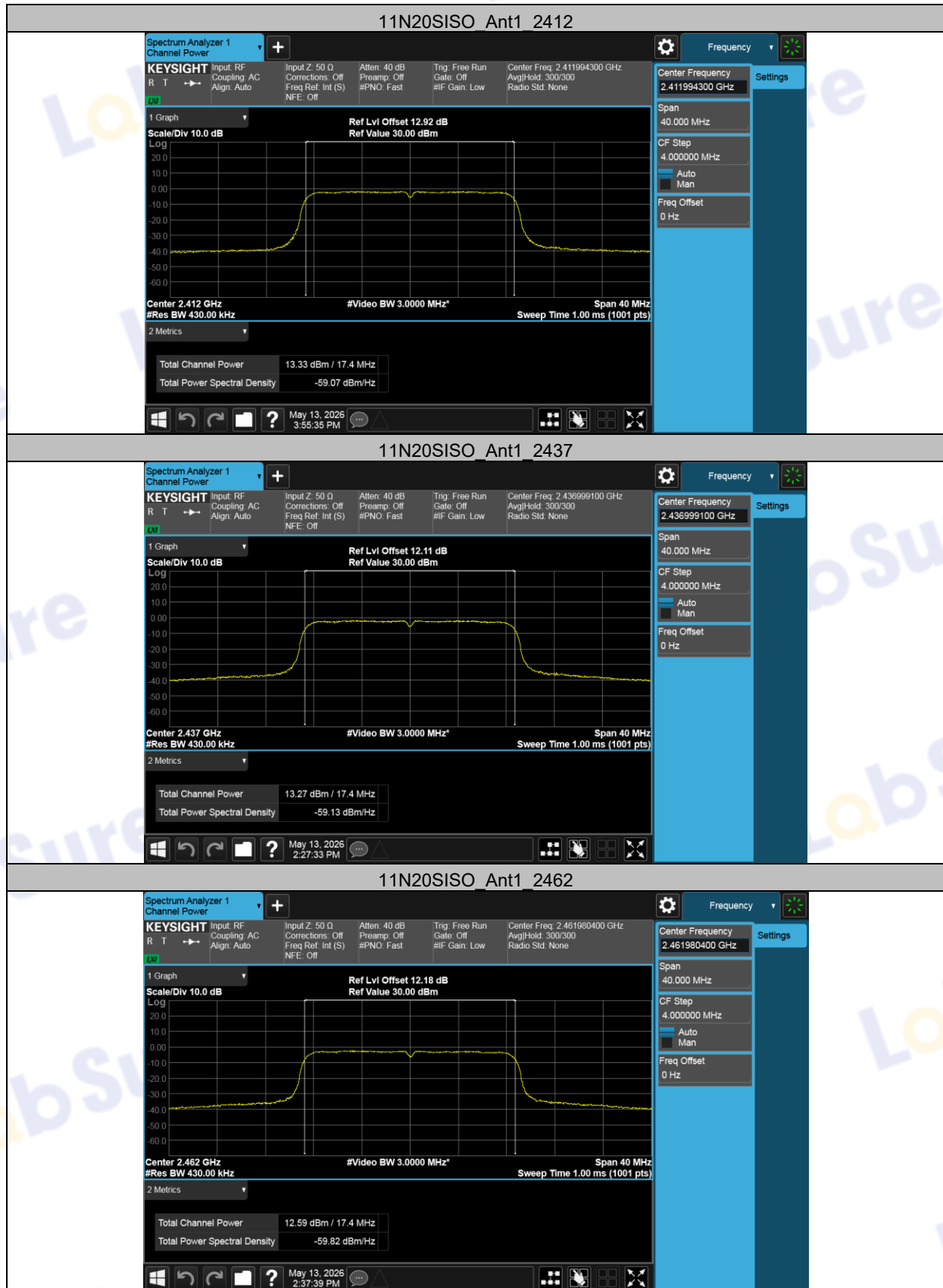
TEST RESULTS TABLE

Test Mode	Test Channel	Measurement Output Power (AV)	$10\log(1/x)$ Factor	Maximum Conducted Output Power (AV)	LIMIT
		dBm	dBm	dBm	dBm
11B	LCH	16.31	0	16.31	30
	MCH	16.11	0	16.11	30
	HCH	15.32	0	15.32	30
11G	LCH	12.00	0	12.00	30
	MCH	11.87	0	11.87	30
	HCH	11.19	0	11.19	30
11N HT20	LCH	13.33	0	13.33	30
	MCH	13.27	0	13.27	30
	HCH	12.59	0	12.59	30
11N HT40	LCH	13.05	0	13.05	30
	MCH	12.91	0	12.91	30
	HCH	13.44	0	13.44	30

6.6. Test graphs







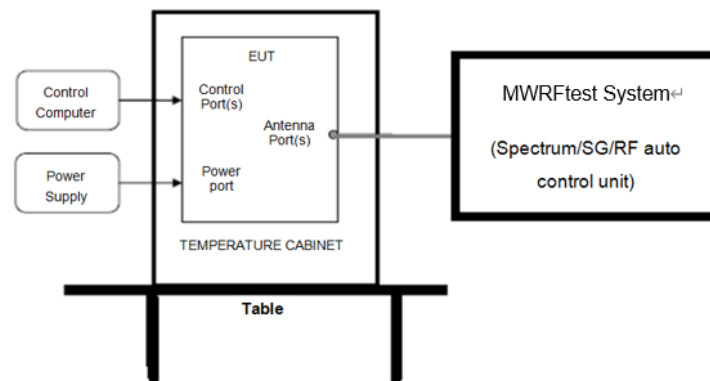


7. Power Spectral Density

7.1. General Information

Test date	2026-05-13	Test engineer	Jimmy Qu	
Climate condition	Ambient temperature	22.5℃	Relative humidity	59.2%
	Atmospheric pressure	101.8kPa		
Test place	EMC Room 1#			

7.2. Block diagram of test setup



7.3. Limits

FCC Part15 (15.247), Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
FCC §15.247 (e)	Power Spectral Density	8 dBm/3 kHz	2400-2483.5

7.4. Test Procedure

Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.5. Test Results

TEST RESULT TABLE

Test Mode	Test Channel	Maximum Peak power spectral density (dBm/10kHz)	Result
11B	LCH	-12.17	Pass
	MCH	-12.20	Pass
	HCH	-13.07	Pass
11G	LCH	-20.46	Pass
	MCH	-20.52	Pass
	HCH	-21.14	Pass
11N HT20	LCH	-19.46	Pass
	MCH	-19.71	Pass
	HCH	-20.21	Pass
11N HT40	LCH	-21.63	Pass
	MCH	-21.60	Pass
	HCH	-21.04	Pass