

TEST REPORT

For

Handheld Wireless Terminal

Model Number: T8F1B

FCC ID: 2AH25T8F1BH

IC: 22621-T8F1BH

Report Number : WT268500178

Test Laboratory : Shenzhen Academy of Metrology and Quality
Inspection
Site Location : No.4, Tongfa Road, Xili Street, Nanshan District,
Shenzhen, Guangdong, China
Tel : 0086-755-86928965
Fax : 0086-755-86009898-31396
Web : www.smq.com.cn
E-mail : emcrf@smq.com.cn

The "Important statement" on the back of the report's first page is part of the document, and copies without it are incomplete.

Revision History

No	Date	Remark
V1.0	2026.03.03	Initial issue

TEST REPORT DECLARATION

Applicant : Shanghai Sunmi Technology Co.,Ltd.
Address : Room 505,No.388,Song Hu Road,Yang Pu
District,Shanghai,China
Manufacturer : Shanghai Sunmi Technology Co.,Ltd.
Address : Room 505,No.388,Song Hu Road,Yang Pu
District,Shanghai,China
EUT Description : Handheld Wireless Terminal
Model No. : T8F1B
Trade mark : SUNMI
HVIN : T8F1BH
FCC ID : 2AH25T8F1BH
IC : 22621-T8F1BH

Test Standards:

FCC Part 15 Subpart C
RSS-247 Issue 4 (2025-07)
RSS-GEN Issue 5 (2021-02)

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results, unless they depend on the manufacturer information.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

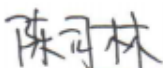
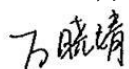
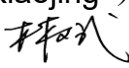
Project Engineer:	 (Chen Silin 陈司林)	Date:	Mar. 03, 2026
Checked by:	 (Wan Xiaojing 万晓婧)	Date:	Mar. 03, 2026
Approved by:	 (Lin Bin 林斌)	Date:	Mar. 03, 2026

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1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	FCC Rules	ISED Rules	Test Results
6dB DTS bandwidth measurement	15.247 (a) (2)	RSS-247 Clause 6.3.1(a)	Pass
Maximum Peak Conducted Power	15.247 (b) (3)	RSS-247 Clause 6.3.2	Pass
Maximum Power Spectral Density Level	15.247 (e)	RSS-247 Clause 6.3.1(b)	Pass
Conducted Bandedge and Spurious	15.247 (d)	RSS-247 Clause 6.6	Pass
Radiated Bandedge and Spurious	15.247 (d) 15.209 15.205	RSS-247 Clause 6.6 RSS-Gen Clause 8.9	Pass
Conducted emission test for AC power port	15.207	RSS-Gen Clause 8.8	Pass
99% Bandwidth	N/A	RSS-Gen Clause 6.7	Pass
Antenna Requirement	15.203	RSS-GEN, Clause 6.8	Pass

Remark: "N/A" means "Not applicable."

2. GENERAL INFORMATION

2.1. Report information

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

The lab will not be liable for any loss or damage resulting for false, inaccurate, inappropriate or incomplete product information provided by the applicant/manufacturer.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is Accredited Testing Laboratory of FCC with Designation number CN1165 and Site registration number 582918.

The Laboratory is registered to perform emission tests with Innovation, Science and Economic Development (ISED), and the registration number is 11177A.

The Laboratory is registered to perform emission tests with VCCI, and the registration number are C-20048, G20076, R-20077, R-20078 and T-20047.

The Laboratory is Accredited Testing Laboratory of American Association for

Laboratory Accreditation (A2LA) and certificate number is 3292.01.

2.3. Measurement Uncertainty

Conducted Emission

9 kHz~150 kHz $U=3.7\text{dB}$ $k=2$

150 kHz~30MHz $U=3.3\text{dB}$ $k=2$

Radiated Emission

30MHz~1000MHz $U=4.3\text{dB}$ $k=2$

1GHz~6GHz $U=4.6\text{ dB}$ $k=2$

6GHz~40GHz $U=5.1\text{dB}$ $k=2$

3. PRODUCT DESCRIPTION

NOTE: The extreme test conditions for temperature and antenna gain were declared by the manufacturer.

3.1. EUT Description

Description : Handheld Wireless Terminal
Manufacturer : Shanghai Sunmi Technology Co.,Ltd.
Model Number : T8F1B
Operate Frequency : 2.412 GHz-2.462 GHz
Antenna Designation : IFA 2.4 dBi
Operating Voltage : DC 3.87 V
Software Version : 4.0.1
Hardware Version : V01

Remark: The product has the following configurations

Object	1st Source	2nd Source
Battery	Model name: GYPA Manufacturer: HUNAN GAOYUAN BATTERY CO.,LTD.	Model name: HPPC Manufacturer: Guangdong Highpower New Energy Technology Co., Ltd.
LCD	Model name: 98-03067 7201A Manufacturer: SHENZHEN DJN PHOTOELECTRIC TECHNOLOGY CO.,LTD	Model name: G674AAA085A2(GF3825B) Manufacturer: GUANGDONGSUPERVIEWOPTOELECTRONICSCO.,LTD.

For Radiated test, Pre-scan was performed on all configurations. The worst configuration is: Battery: GYPA + LCD: G674AAA085A2 (GF3825B), which was selected for all radiated tests.

WLAN:

Table 2 Working Frequencies Lists (802.11b, 802.11g, 802.11n HT20)

Channel	Frequency	Channel	Frequency
1	2412MHz	8	2447MHz
2	2417MHz	9	2452MHz
3	2422MHz	10	2457MHz
4	2427MHz	11	2462MHz
5	2432MHz	---	---
6	2437MHz	---	---
7	2442MHz	---	---

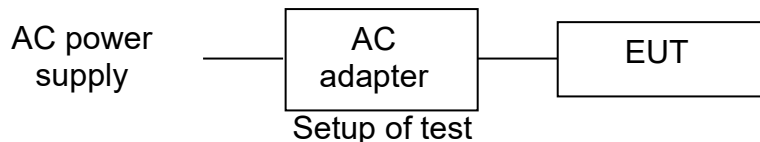
Table 3 Working Frequencies Lists (802.11n HT40)

Channel	Frequency	Channel	Frequency
3	2422MHz	8	2447MHz
4	2427MHz	9	2452MHz
5	2432MHz	---	---
6	2437MHz	---	---
7	2442MHz	---	---

3.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **2AH25T8F1BH** and IC: **22621-T8F1BH** filing to comply with Section 15.207,15.209,15.247 of the FCC Part 15 Subpart C and RSS-247, RSS-GEN.

3.3. Block Diagram of EUT Configuration



3.4. Operating Condition of EUT

The Radiated spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission (X plane).

Worst-case mode and channel used for 30-1000 MHz radiated and power line conducted emissions was the mode and channel with the highest output power.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

802.11n HT20 mode: MCS0

802.11n HT40 mode: MCS0

3.5. Directional Antenna Gain

Directional gain need NOT to be considered.

3.6. Support Equipment List

Table 4 Support Equipment List

Name	Model No	S/N	Manufacturer
Adapter 1# for EUT	TPA-10120150UU	---	SHENZHEN TIANYIN ELECTRONICS CO.,LTD.
Adapter 2# for EUT	TPA-141A050200UU01	---	SHENZHEN TIANYIN ELECTRONICS CO.,LTD.
Adapter 3# for EUT	UC12US	---	Jiangsu Chenyang Electron Co.,Ltd.

3.7. Test Conditions

Date of test: Jan. 23, 2026- Feb. 05, 2026

Date of EUT Receive: Jan. 19, 2026

Temperature: 22 °C

Relative Humidity: 32%-48%

3.8. Special Accessories

Not available for this EUT intended for grant.

3.9. Equipment Modifications

Not available for this EUT intended for grant.

4. TEST EQUIPMENT USED

Table 5 Test Equipment

No.	Equipment	Manufacturer	Model No.	Calibration Due Date	Calibration Interval
SB3997	Test Receiver	R&S	ESPI3	Oct.14, 2026	1 Year
SB8501/06	AMN	R&S	ESH-Z5	May.08, 2026	1 Year
SB9548	Shielded Room	Albatross	SR	Aug.14, 2028	3 Years
SB20321	EMI Test Receiver	R&S	R&S	Apr.17, 2026	1 Year
SB12724/11	Loop Antenna	R&S	HFH2-Z2	Apr.22, 2026	1 Year
SB3955	Broadband Antenna	SCHWARZB ECK	VULB9163	Aug.24, 2026	1 Year
SB15044/01	Test Receiver	R&S	ESW8	Feb.01, 2027	1 Year
SB18844	Semi Anechoic Chamber	Albatross	9×6×6(m)	Jan.25, 2027	1 Year
SB8501/09	Test Receiver	R&S	ESU40	Jan.03, 2027	1 Year
SB3435	Horn Antenna	R&S	HF906	Nov.13, 2026	1 Year
SB9058/03	Pre-Amplifier	R&S	SCU 18	Jan.03, 2027	1 Year
SB8501/11	Antenna	R&S	3160-09	Feb.01, 2029	3 Years
SB8501/16	Pre-Amplifier	R&S	SCU-26	Jan.03, 2027	1 Year
SB19867/04	Spectrum Analyzer	Ceyear	Ceyear4051E-S	Apr.17, 2026	1 Year

Table 6 Test software

Name	Manufacturer	Version
Bluetooth and WiFi Test System	Shenzhen JS tonscond co.,ltd	3.3.10

5. DUTY CYCLE

5.1.LIMITS OF DUTY CYCLE

None; for reporting purposes only

5.2.TEST PROCEDURE

1. Set span = Zero
2. RBW = 8 MHz
3. VBW = 8 MHz
4. Detector = Peak

5.3.TEST SETUP

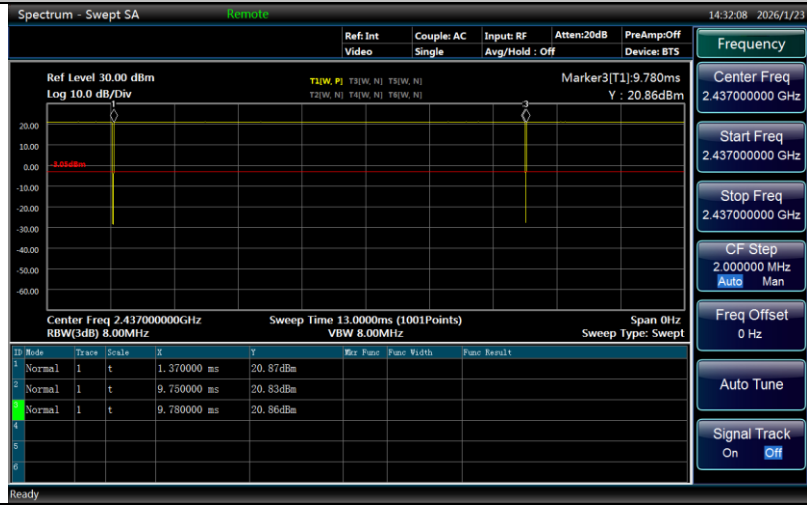


5.4.TEST DATA

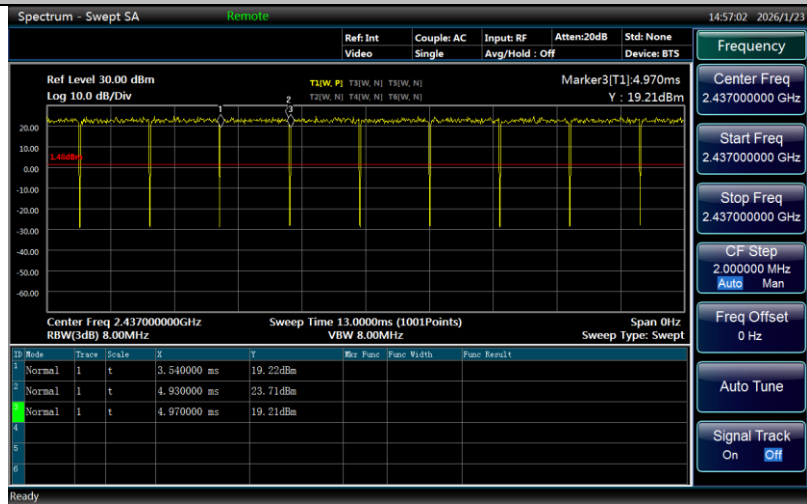
Table 7 Duty Cycle Test Data

Test Mode	On Time (ms)	Duty Cycle (%)	Duty Factor(dB)	1/T Minimum VBW (kHz)
802.11b	8.38	99.64	0.02	0.01
802.11g	1.43	97.20	0.15	0.01
802.11n HT20	1.32	96.97	0.13	0.01
802.11n HT40	0.66	93.94	0.26	0.01

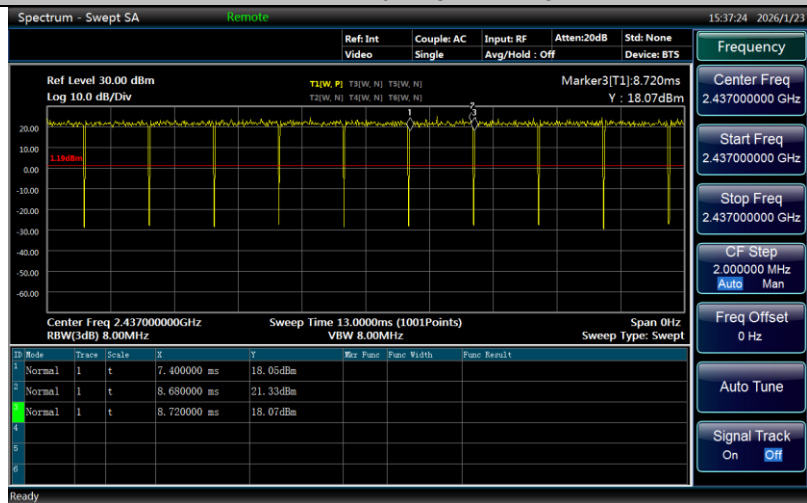
NTNV-11B-Ant1-2437



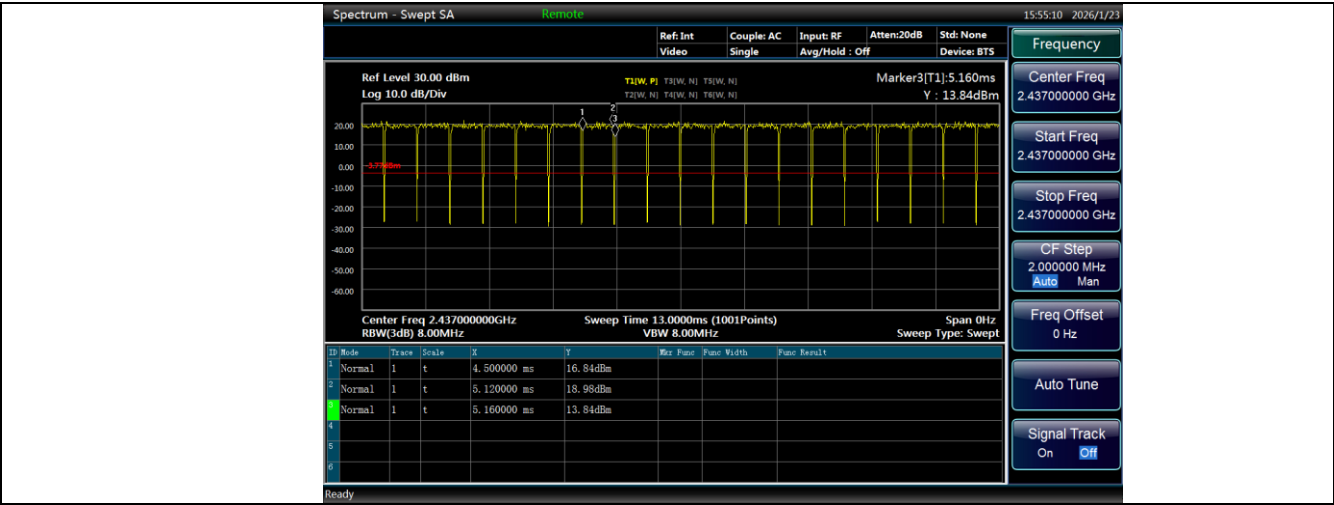
NTNV-11G-Ant1-2437



NTNV-11N20SISO-Ant1-2437



NTNV-11N40SISO-Ant1-2437



6. 6DB BANDWIDTH MEASUREMENT

6.1.LIMITS OF 6dB BANDWIDTH MEASUREMENT

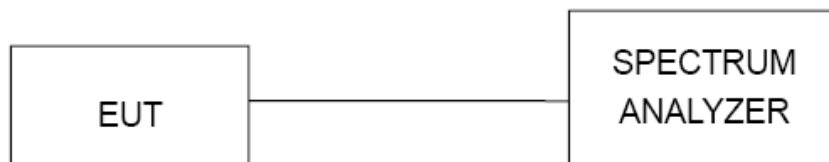
CFR 47 (FCC) part 15.247 (a) (2), 558074 D01 DTS Meas Guidance v05r02
RSS-247 Clause 6.3.1(a) the minimum 6 dB bandwidth shall be 500 kHz

6.2.TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer.

- Set RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- 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

6.3.TEST SETUP

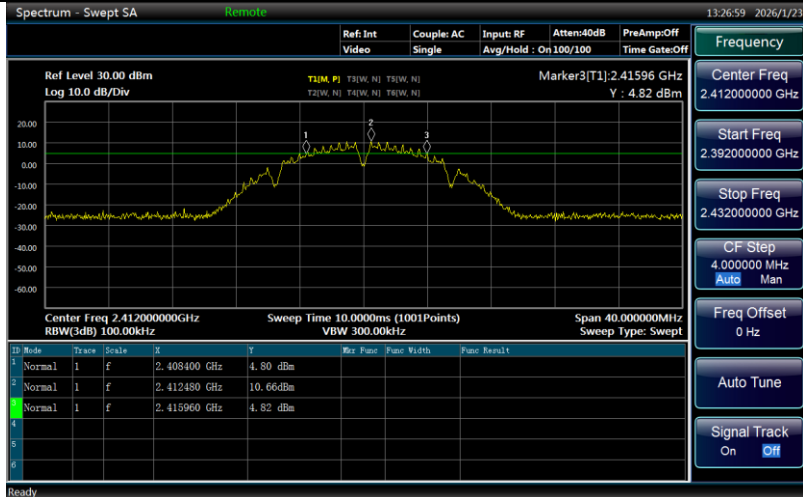


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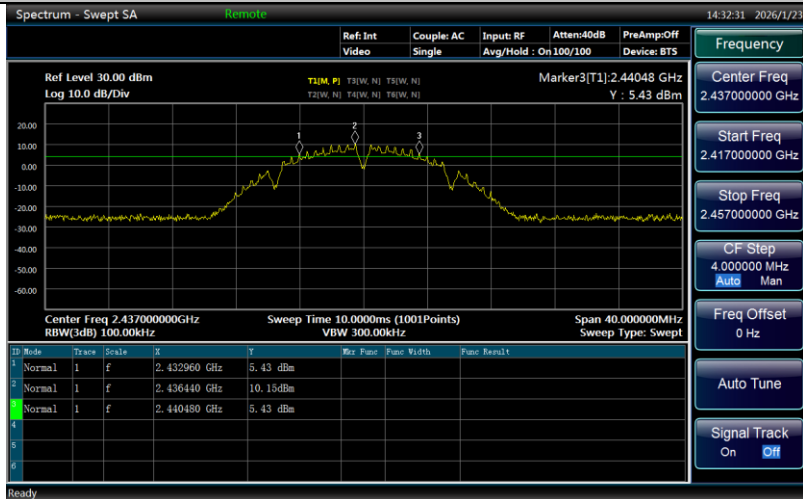
6dB Bandwidth Test Data

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.560	2408.400	2415.960	0.5	PASS
11B	Ant1	2437	7.520	2432.960	2440.480	0.5	PASS
11B	Ant1	2462	8.000	2457.960	2465.960	0.5	PASS
11G	Ant1	2412	14.720	2404.400	2419.120	0.5	PASS
11G	Ant1	2437	15.120	2429.400	2444.520	0.5	PASS
11G	Ant1	2462	15.080	2454.400	2469.480	0.5	PASS
11N20SISO	Ant1	2412	15.120	2404.400	2419.520	0.5	PASS
11N20SISO	Ant1	2437	13.720	2429.480	2443.200	0.5	PASS
11N20SISO	Ant1	2462	15.280	2454.200	2469.480	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.400	2439.520	0.5	PASS
11N40SISO	Ant1	2437	35.040	2419.400	2454.440	0.5	PASS
11N40SISO	Ant1	2452	35.120	2434.400	2469.520	0.5	PASS

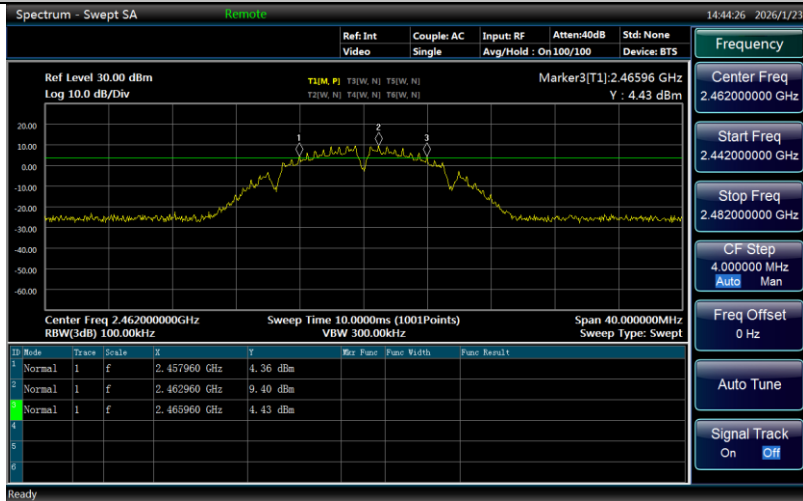
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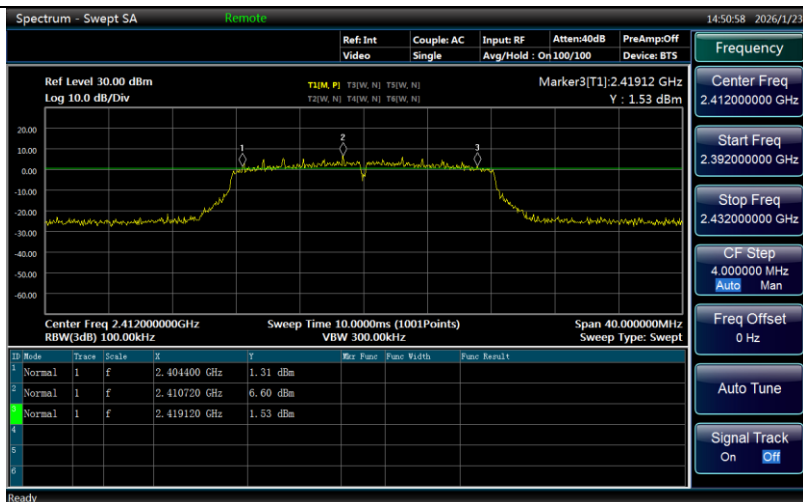
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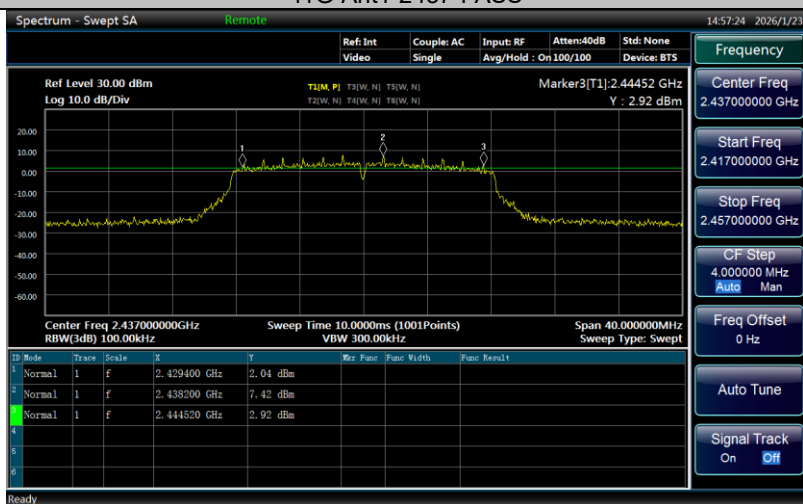
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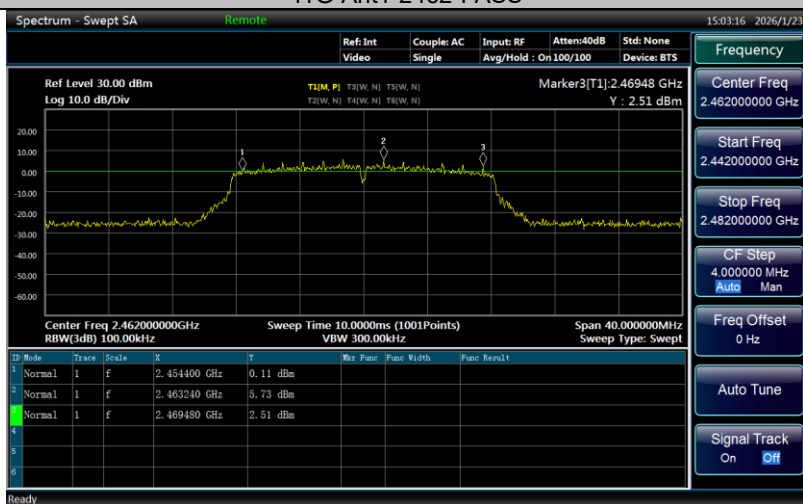
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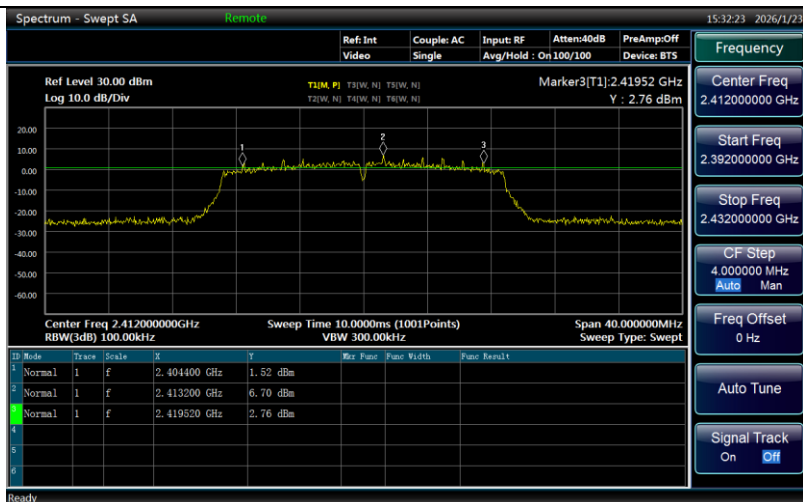
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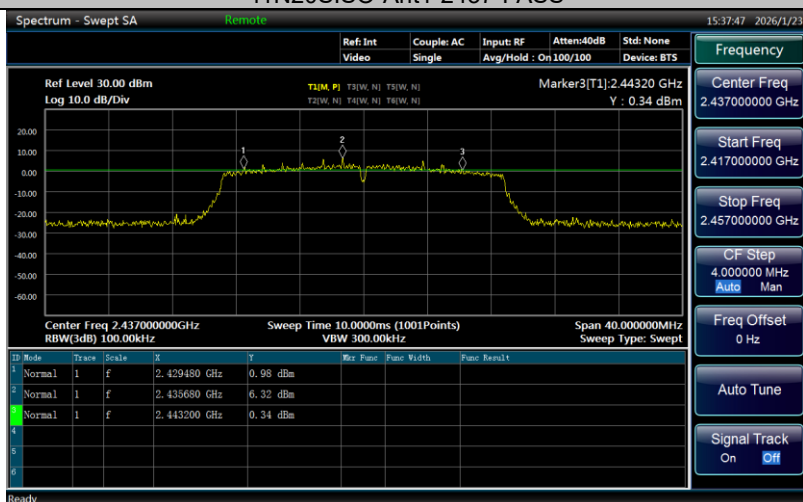
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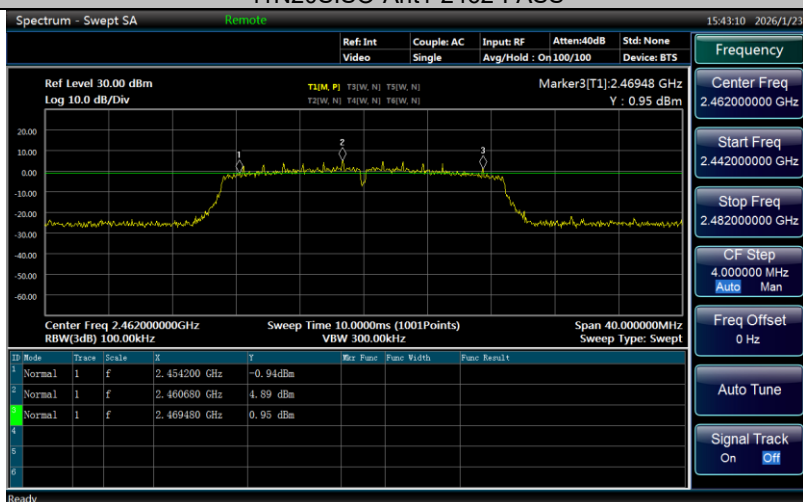
11N20SISO-Ant1-2412-PASS



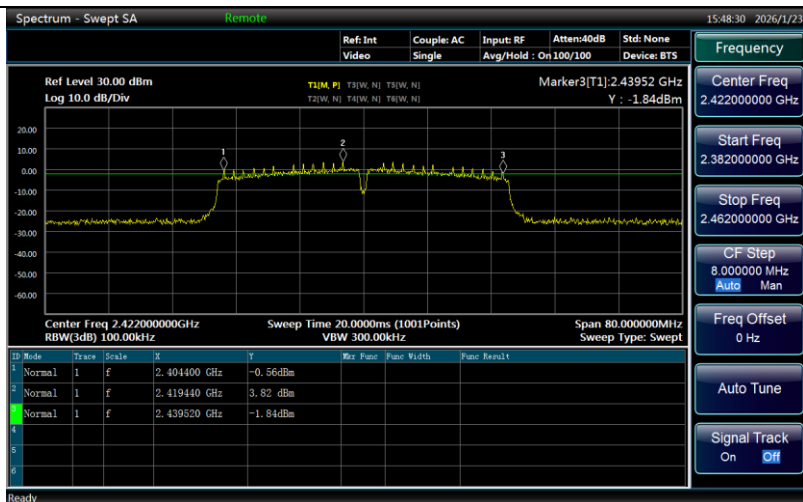
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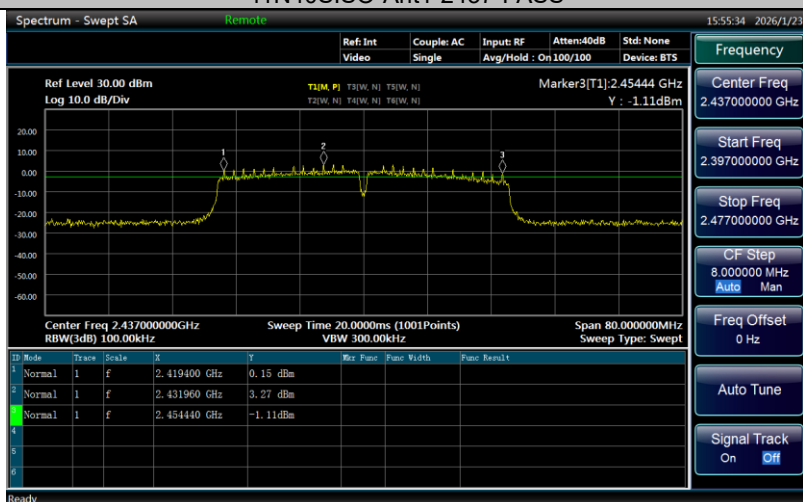
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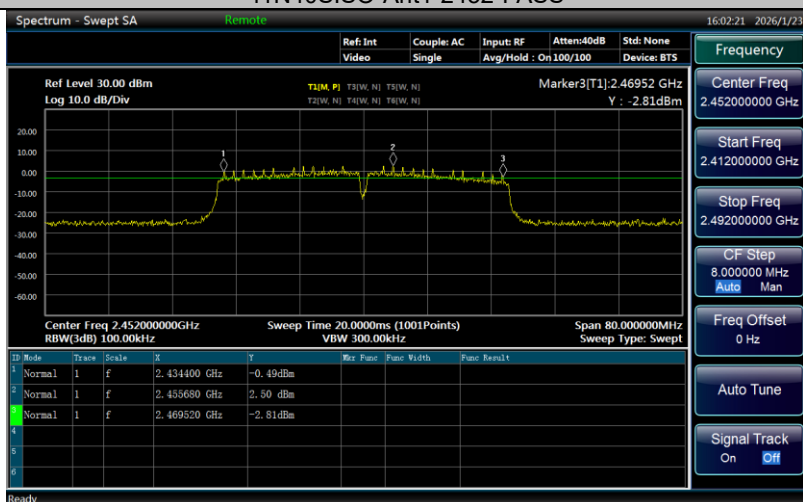
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11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS



7. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

7.1. LIMITS OF Maximum Conducted Output Power Measurement

CFR 47 (FCC) part 15.247 (b) (3), 558074 D01 DTS Meas Guidance v05r02
RSS-247 Clause 6.3.2, For DTSS employing digital modulation techniques
operating in the bands 2400-2483.5 MHz, the maximum peak conducted output
power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W.

7.2. TEST PROCEDURE

The following procedure can be used when the maximum available RBW of the
instrument is less than the
DTS bandwidth:

- a) Set the RBW = 1 MHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Set the span $\geq [1.5 \times \text{DTS bandwidth}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the instrument's band/channel power measurement function with the
band limits set equal to the DTS bandwidth edges (for some instruments, this
may require a manual override to select the peak detector). If the instrument
does not have a band power function, then sum the spectrum levels (in linear
power units) at intervals equal to the RBW extending across the DTS channel
bandwidth.

7.3. TEST SETUP

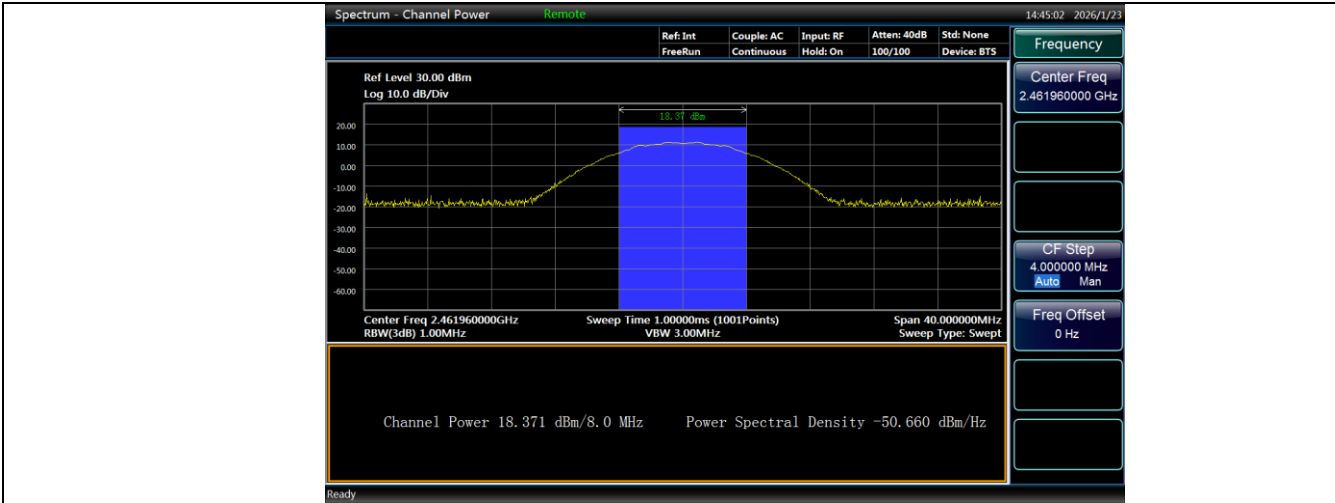


7.4. TEST DATA

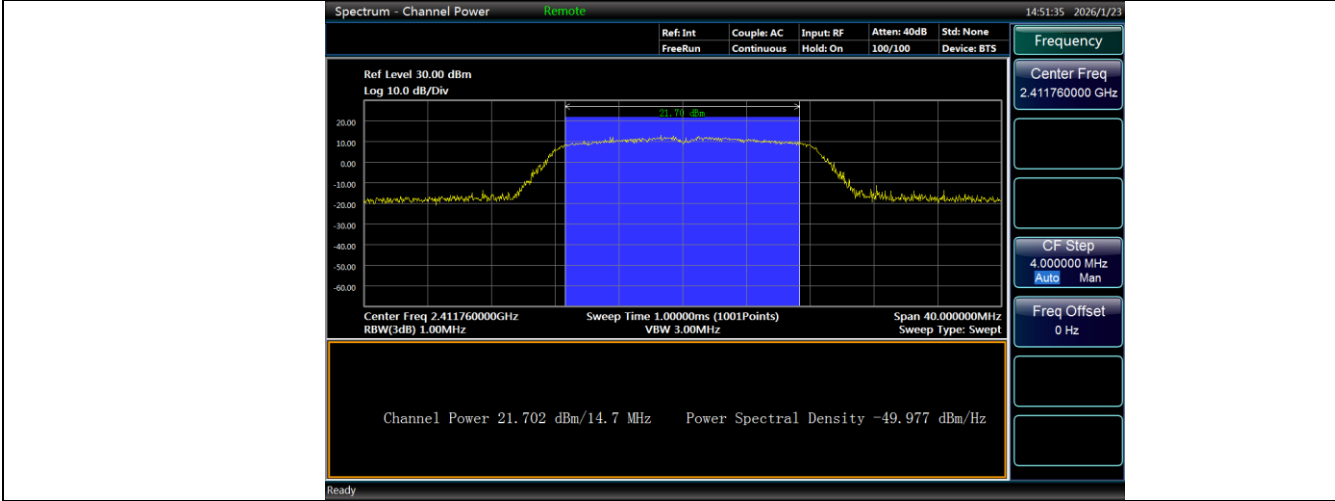
Maximum Conducted Output Power

TestMode	Antenna	Frequency [MHz]	Peak Power[dBm]	Peak Power Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	19.10	≤30.00	21.5	≤36.00	PASS
		2437	18.84	≤30.00	21.24	≤36.00	PASS
		2462	18.37	≤30.00	20.77	≤36.00	PASS
11G	Ant1	2412	21.70	≤30.00	24.1	≤36.00	PASS
		2437	22.35	≤30.00	24.75	≤36.00	PASS
		2462	20.86	≤30.00	23.26	≤36.00	PASS
11N20SISO	Ant1	2412	21.35	≤30.00	23.75	≤36.00	PASS
		2437	20.71	≤30.00	23.11	≤36.00	PASS
		2462	19.83	≤30.00	22.23	≤36.00	PASS
11N40SISO	Ant1	2422	21.34	≤30.00	23.74	≤36.00	PASS
		2437	21.22	≤30.00	23.62	≤36.00	PASS
		2452	20.82	≤30.00	23.22	≤36.00	PASS

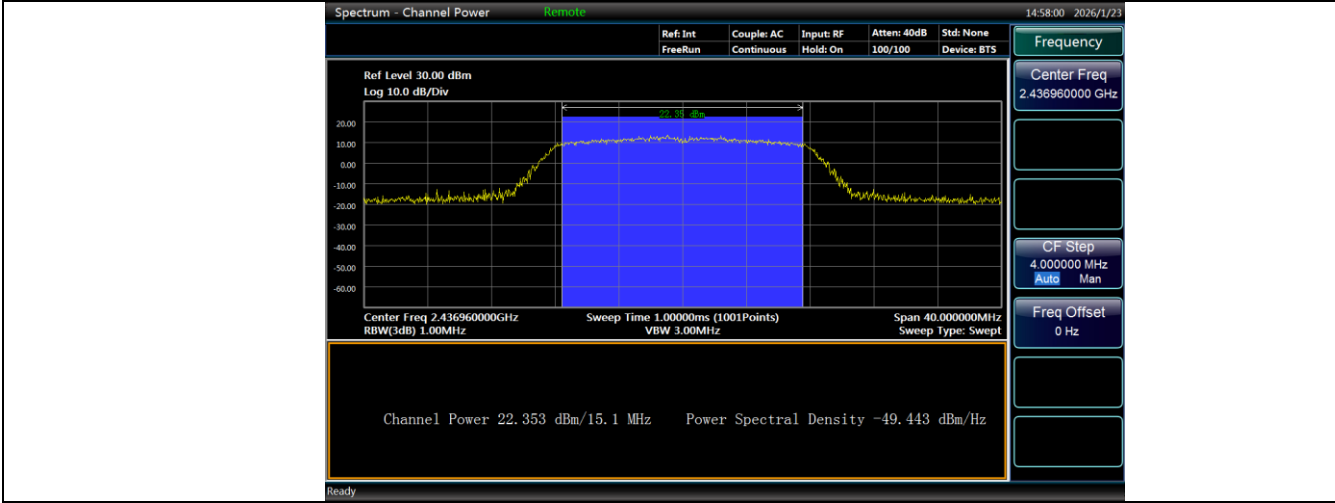




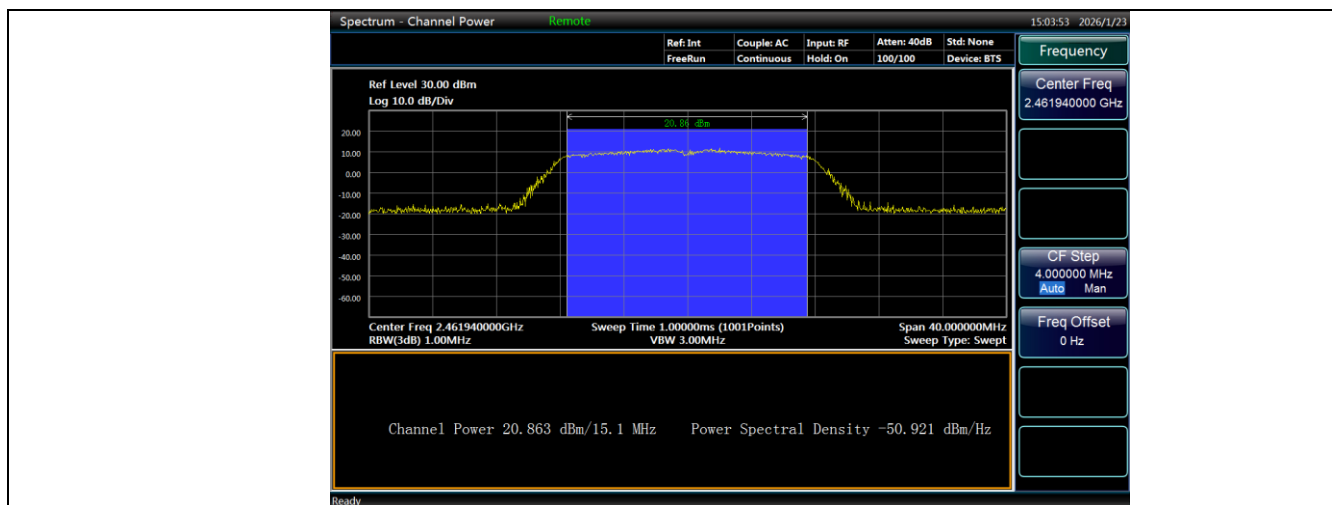
11G-Ant1-2412-PASS



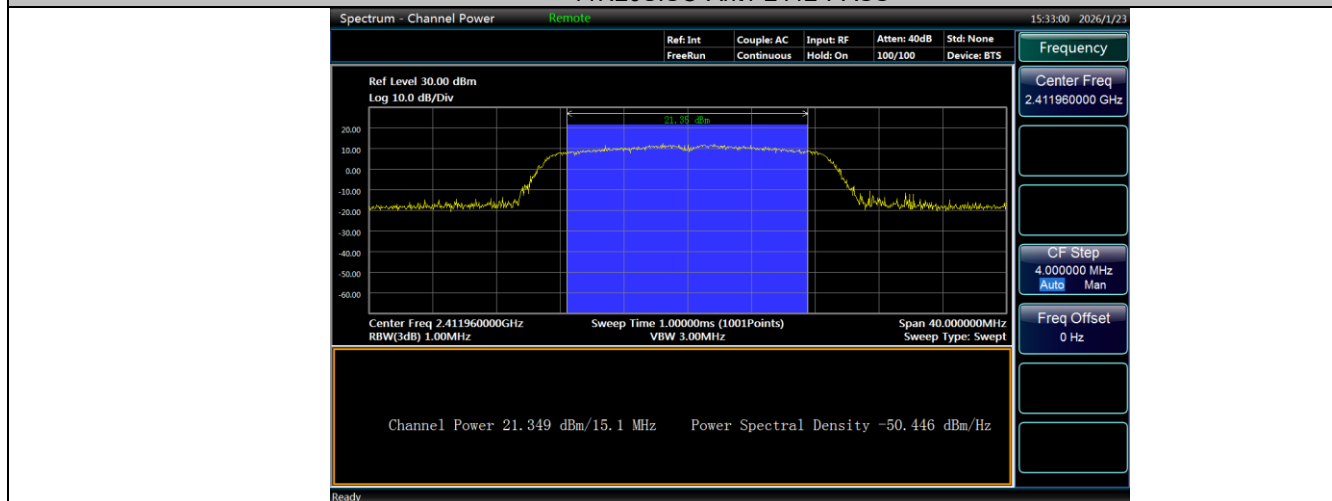
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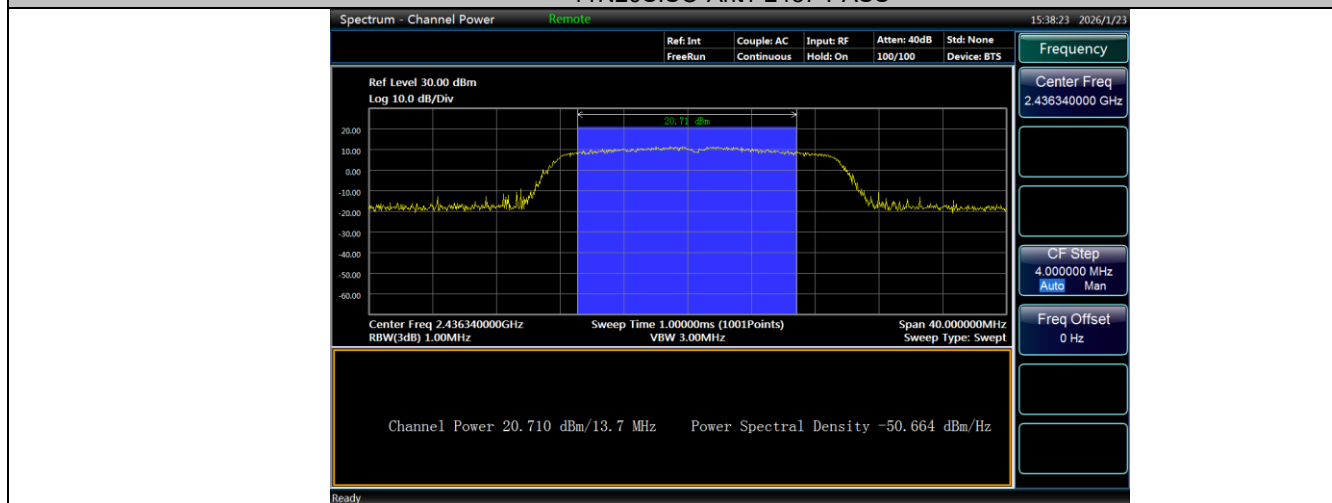
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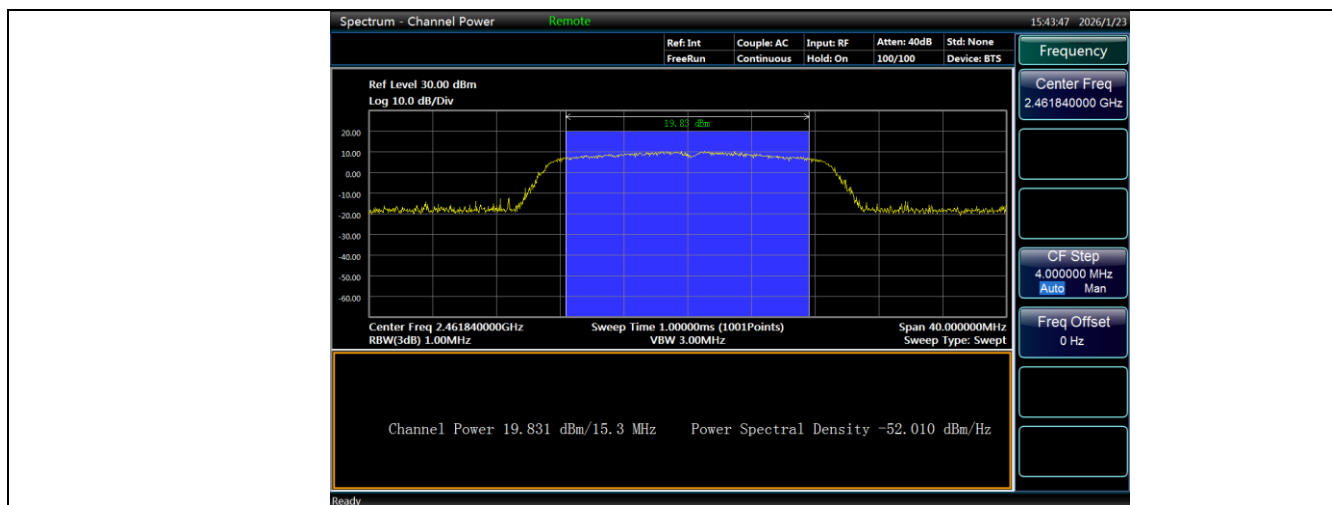
11N20SISO-Ant1-2412-PASS



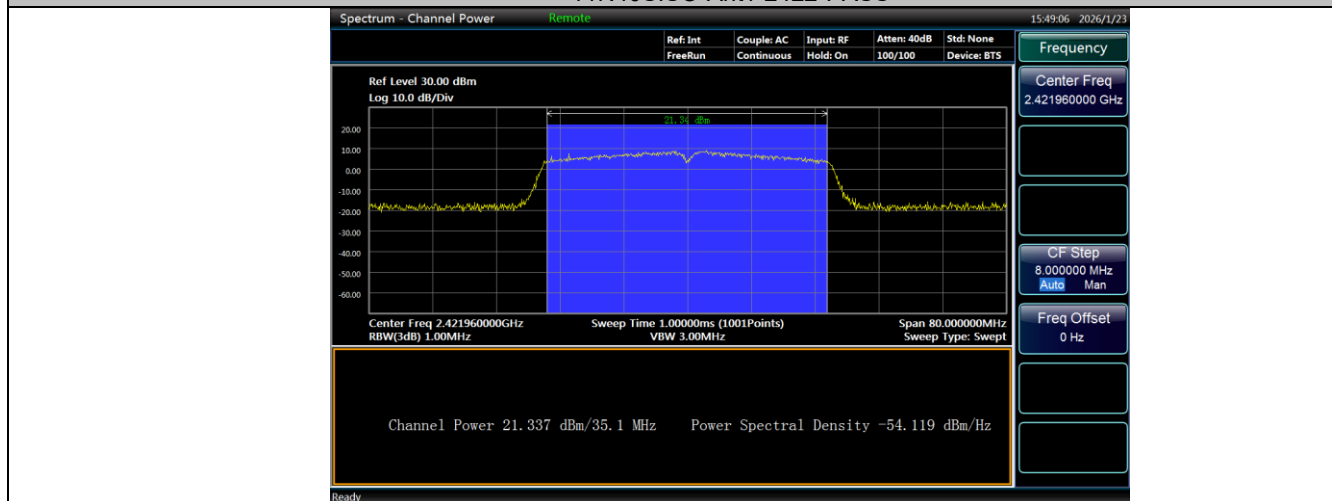
11N20SISO-Ant1-2437-PASS



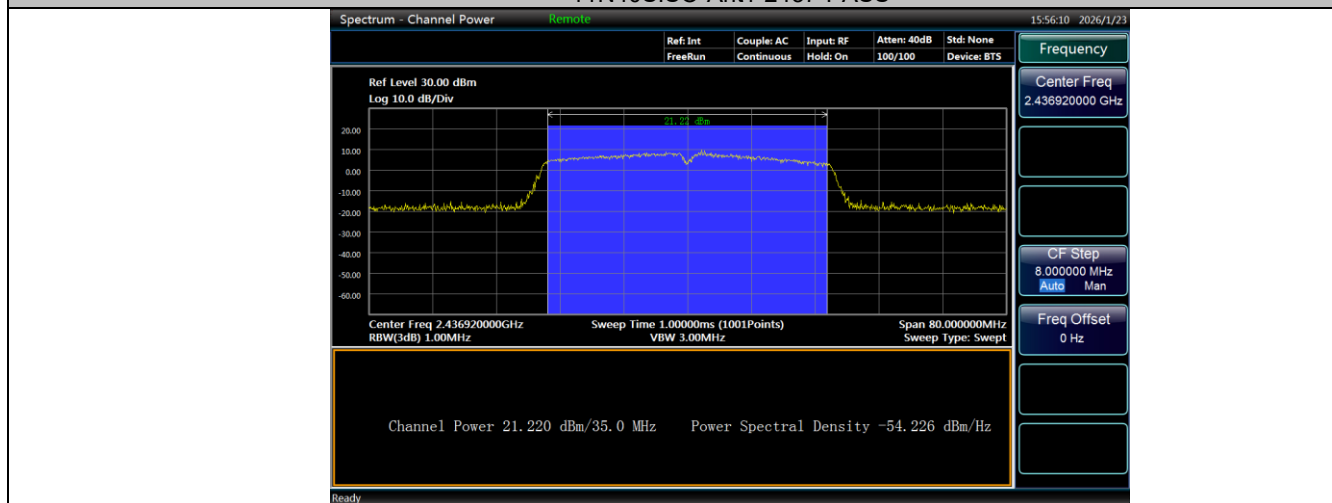
11N20SISO-Ant1-2462-PASS



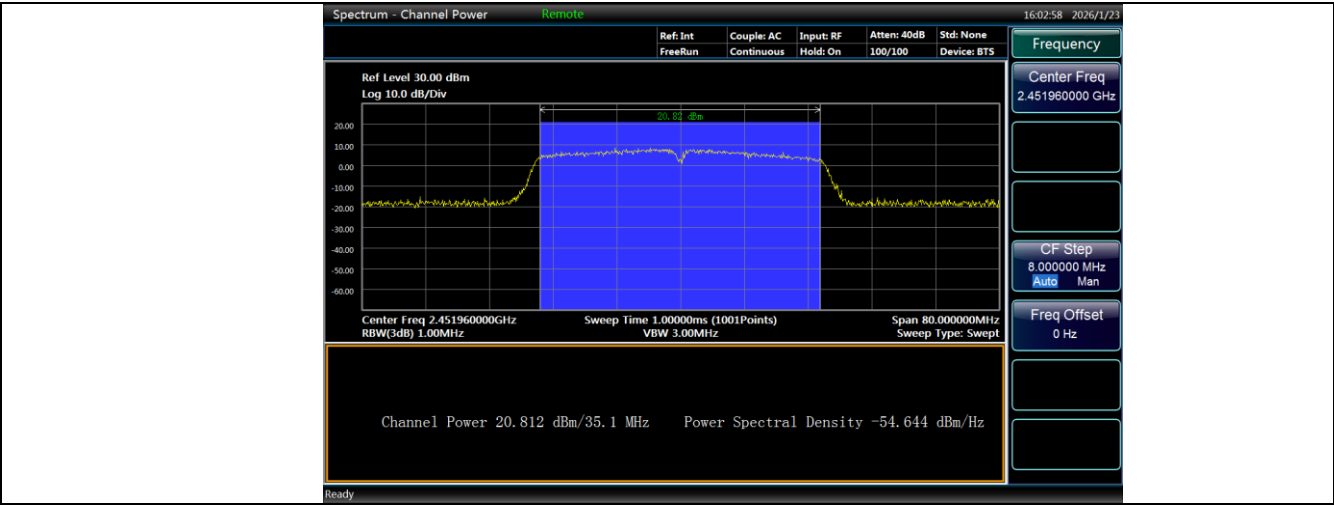
11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS



8. MAXIMUM POWER SPECTRAL DENSITY LEVEL MEASUREMENT

8.1.LIMITS OF Maximum Power Spectral Density Level Measurement

CFR 47 (FCC) part 15.247 (e)

RSS-247 Clause 6.3.1(b), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.2.TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer.

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5 times the DTS bandwidth.

c) Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.

d) Set VBW $\geq 3 \times \text{RBW}$.

e) Detector = peak.

f) Sweep time = auto couple.

g) Trace mode = max hold.

h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum amplitude level within the RBW.

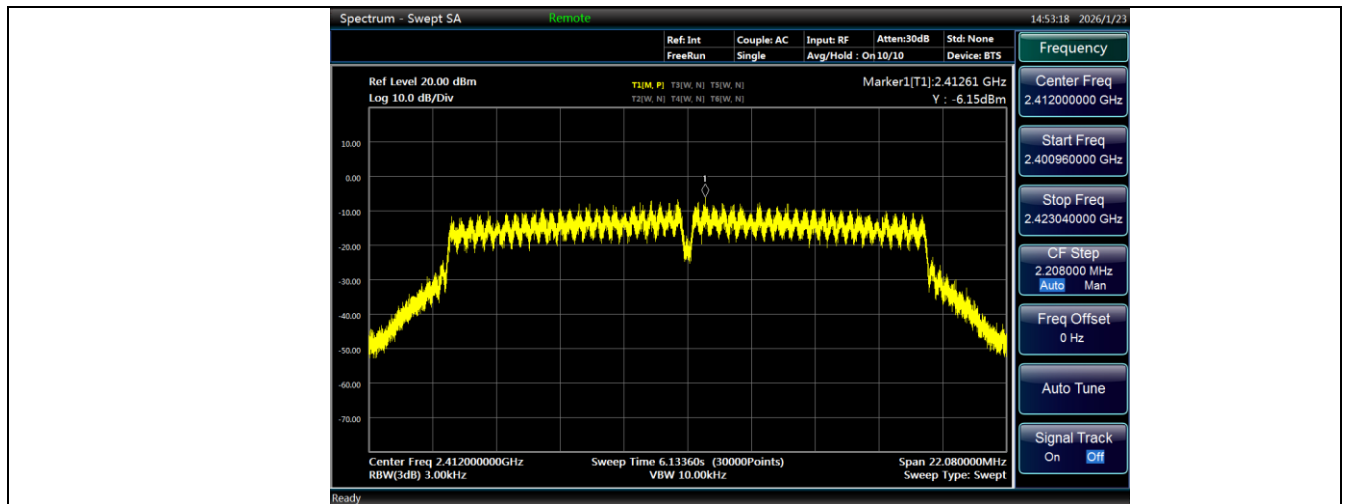
j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

8.3.TEST DATA

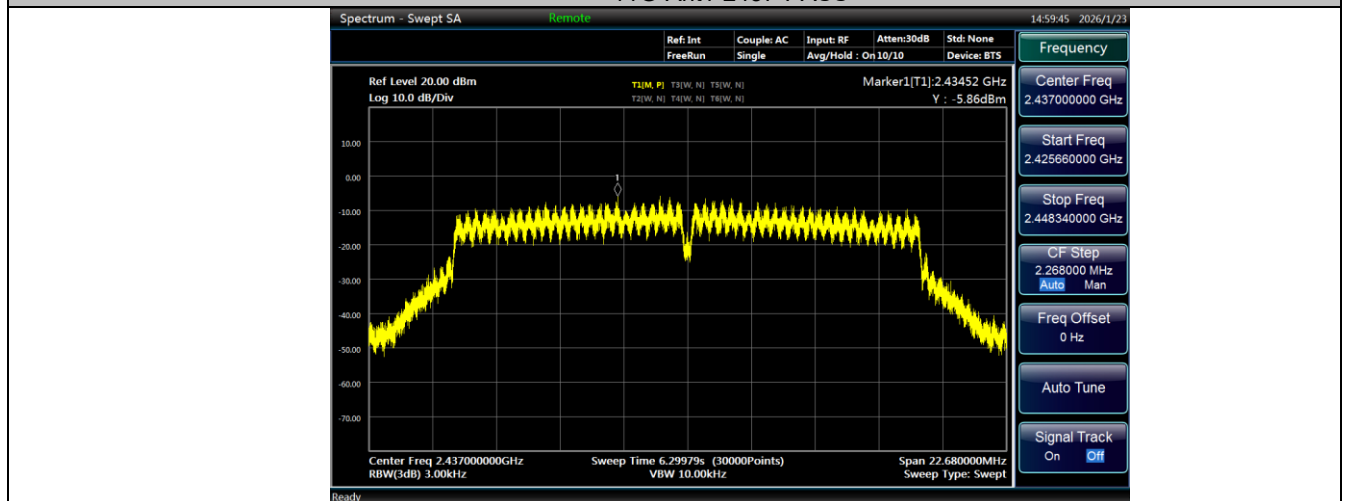
Maximum Power Spectral Density Level

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-2.69	≤ 8.00	PASS
11B	Ant1	2437	-3.36	≤ 8.00	PASS
11B	Ant1	2462	-3.72	≤ 8.00	PASS
11G	Ant1	2412	-6.15	≤ 8.00	PASS
11G	Ant1	2437	-5.86	≤ 8.00	PASS
11G	Ant1	2462	-7.28	≤ 8.00	PASS
11N20SISO	Ant1	2412	-7.12	≤ 8.00	PASS
11N20SISO	Ant1	2437	-7.88	≤ 8.00	PASS
11N20SISO	Ant1	2462	-8.48	≤ 8.00	PASS
11N40SISO	Ant1	2422	-8.39	≤ 8.00	PASS
11N40SISO	Ant1	2437	-10.15	≤ 8.00	PASS
11N40SISO	Ant1	2452	-10.69	≤ 8.00	PASS

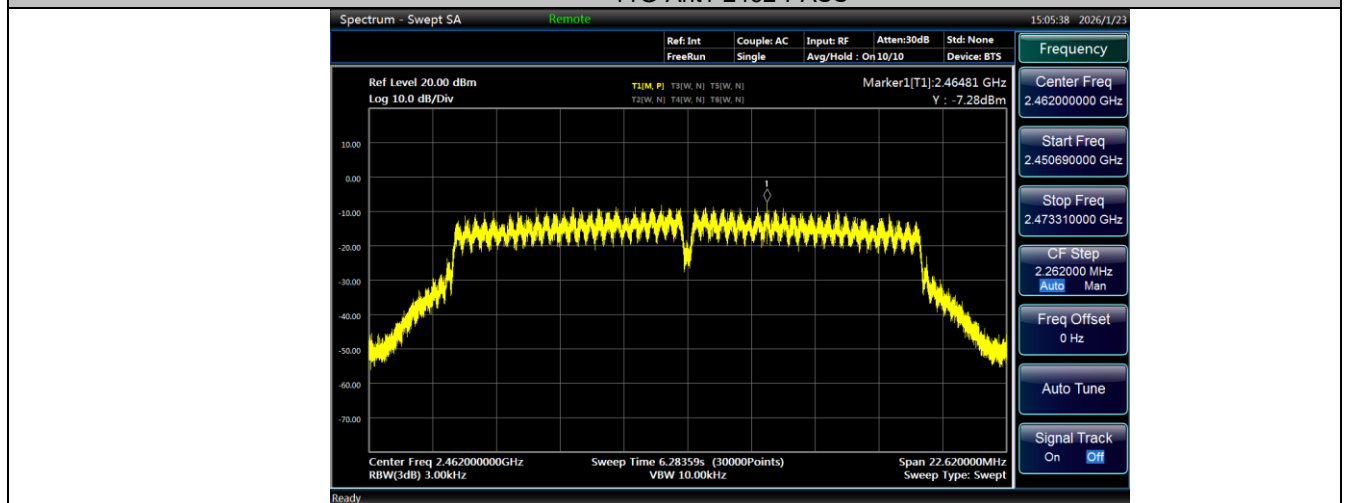




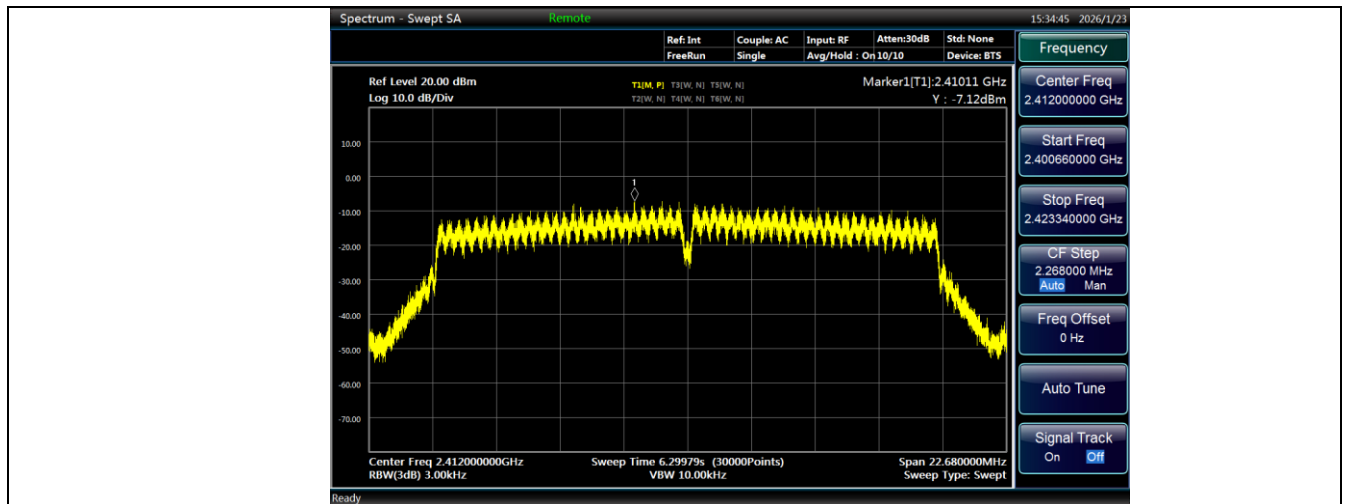
11G-Ant1-2437-PASS



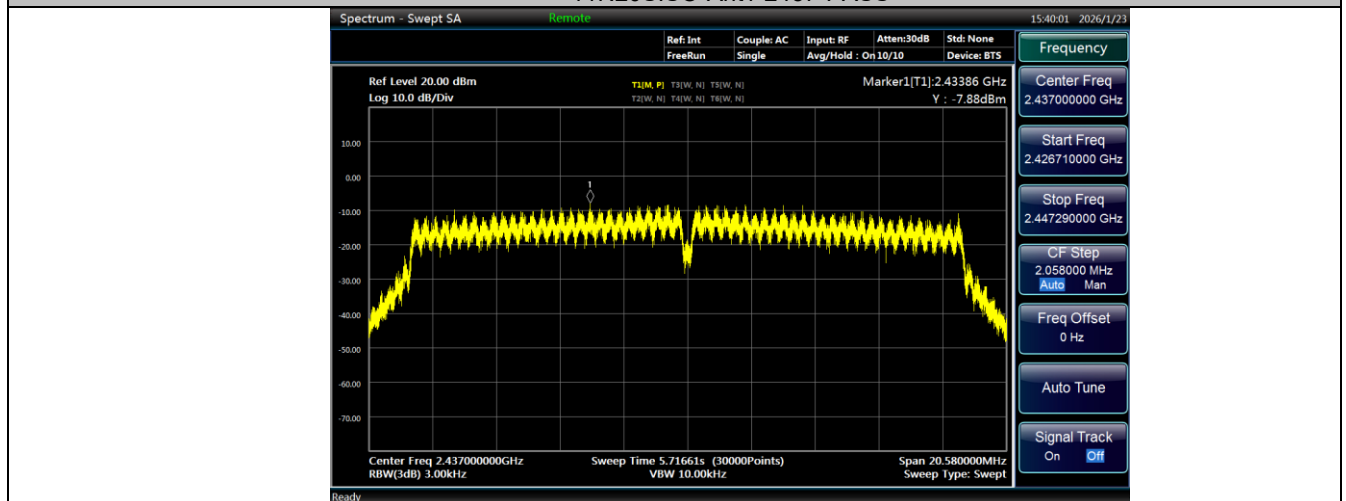
11G-Ant1-2462-PASS



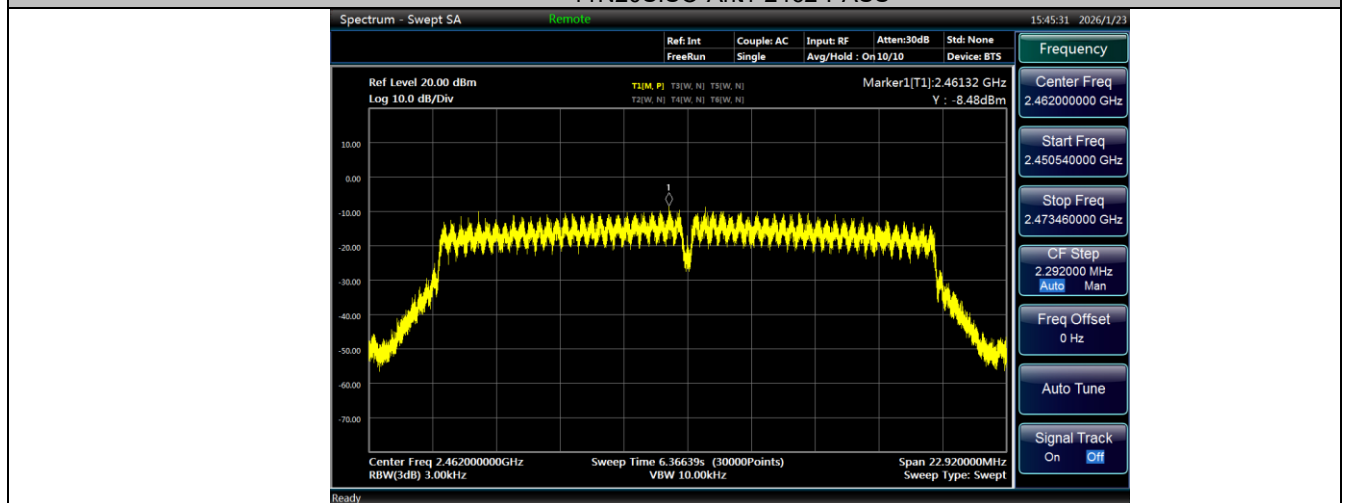
11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS