

TEST REPORT

Report No.	CISRR26082037201
Project No.	CISR260820372
Applicant	Yongkang Zimo Security Equipment Co., Ltd
Address	3rd Floor, No. 12 Huancun South Road, Wangshangdian Village, Zhiying Town, Yongkang City, Jinhua, Zhejiang Province
Manufacturer	Yongkang Zimo Security Equipment Co., Ltd
Address	3rd Floor, No. 12 Huancun South Road, Wangshangdian Village, Zhiying Town, Yongkang City, Jinhua, Zhejiang Province
Product Name	Smart lock
Trade mark	-
Model/Type reference	BNK005
Listed Model(s)	BNK001, BNK006, P1, BNK005PRO, P11, P12, P8, P9, K15, P15, D3, K9S, K12
Standard	ETSI EN 300 328 V2.2.2
Date of sample receipt	July 2, 2026
Test date	July 3, 2026 to July 8, 2026
Issue date	August 25, 2026
Test result	Complied

Lucas Huang

Reviewed by: Lucas Huang



Approved by: Hans Hu

The test results relate only to the tested samples.

The test report should not be reproduced except in full without the written approval of Shenzhen Bangce Testing Technology Co., Ltd.

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1. REPORT VERSION

Version No.	Issue date	Description
00	August 25, 2026	According to the original report (report number: CISRR26061519001), the series model has been updated. This report supersedes the original report, and the original report is hereby invalidated as of now.

2. TEST DESCRIPTION

No.	Test Item	Standard Requirement	Result
1	RF Power	Clause 4.3.2.2.1	Pass
2	Power Spectral Density	Clause 4.3.2.3.1	Pass
3	Occupied Channel Bandwidth	Clause 4.3.2.7.1	Pass
4	Transmitter unwanted emissions in the out-of-band domain	Clause 4.3.2.8.1	Pass
5	Transmitter unwanted emissions in the spurious domain, conducted	Clause 4.3.2.9.1	Pass
6	Receiver spurious emissions, conducted	Clause 4.3.2.10.1	Pass
7	Transmitter unwanted emissions in the spurious domain (30MHz to 1GHz)	Clause 4.3.2.9.1	Pass
8	Transmitter unwanted emissions in the spurious domain (above 1GHz)	Clause 4.3.2.9.1	Pass
9	Receiver spurious emissions (30MHz to 1GHz)	Clause 4.3.2.10.1	Pass
10	Receiver spurious emissions (above 1GHz)	Clause 4.3.2.10.1	Pass
11	Receiver Blocking	Clause 4.3.2.11.1	Pass

Note:

- The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Product Description

Main unit information:	
Product Name:	Smart lock
Trade mark:	-
Model No.:	BNK005
Listed Model(s):	BNK001, BNK006, P1, BNK005PRO, P11, P12, P8, P9, K15, P15, D3, K9S, K12
Model difference:	The series is only different in model naming and sales channels, while the internal structure remains the same.
Power supply:	DC 5V by USB-C port DC 7.4V Internal battery
Hardware version:	-
Software version:	-
Accessory unit information:	
Battery information:	YC04B 4200mAh by DC 7.4V

3.2. Radio Specification Description

Modulation type:	802.11b: DSSS(CCK, DBPSK, DQPSK); 802.11g/n(HT20): OFDM(BPSK, QPSK, 16QAM, 64QAM)
Operation frequency:	802.11b/g/n(HT20): 2412MHz to 2472MHz
Channel number:	802.11b/g/n(HT20): 13
Channel separation:	5MHz
Antenna type:	PCB antenna
Antenna gain:	3dBi
Receiver Category:	2

Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462
2	2417	7	2442	12	2467
3	2422	8	2447	13	2472
4	2427	9	2452	/	/
5	2432	10	2457	/	/

3.3. Modification of EUT

No modifications are made to the EUT during all test items.

3.4. Deviation from standards

None

3.5. Testing Site

Laboratory Name	Shenzhen Bangce Testing Technology Co., Ltd.
Laboratory Location	101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen, Guangdong, China
Contact information	Tel: 86-755-2319 6848, email: service@cis-cn.net Website: http://www.cis-cn.net/

4. TEST CONFIGURATION

4.1. Test frequency list

Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
2412	2442	2472

4.2. Descriptions of test mode

No	Test mode	Description
Mode1	802.11b mode	Keep the EUT in continuously transmitting at 802.11b mode.
Mode2	802.11g mode	Keep the EUT in continuously transmitting at 802.11g mode.
Mode3	802.11n(HT20) mode	Keep the EUT in continuously transmitting at 802.11n(HT20) mode.
Mode4	Receiving mode (20MHz)	Keep the EUT in receiving mode with 20MHz bandwidth.
Mode5	Normal mode (802.11b)	Keep the EUT in normal communication with pairing device mode (802.11b).
Mode6	Normal mode (802.11g)	Keep the EUT in normal communication with pairing device mode (802.11g).
Mode7	Normal mode (802.11n(HT20))	Keep the EUT in normal communication with pairing device mode (802.11n(HT20)).

4.3. Environmental conditions

Type	Requirement
Temperature:	15~35°C
Relative Humidity:	25~75%
Air Pressure:	860~1060mbar

4.4. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	Conducted output power	1.38dB
2	Power spectral density	1.39dB
3	Bandwidth	0.19%
4	Conducted spurious emission	1.40dB
5	Receiver Blocking	2.28dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.5. Equipment Used during the Test

RF Power Power Spectral Density Occupied Channel Bandwidth Transmitter unwanted emissions in the out-of-band domain Transmitter unwanted emissions in the spurious domain, conducted Receiver spurious emissions, conducted Receiver Blocking						
Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	Spectrum analyzer	ROHDE&SCHWARZ	FSV-40N	CIS-EE076	2026-01-06	2027-01-05
2	Notch Filter Assembly	WCS	SMU-1003	CIS-EE093	2026-01-06	2027-01-05
3	Vector Signal Generator	Agilent	N5182A	CIS-RE012	2026-01-06	2027-01-05
4	Analog Signal Generator	Agilent	N5181A	CIS-RE013	2026-01-06	2027-01-05
5	Test software	WCS	WCN-Regulator y	CIS-EE103	/	/

Transmitter unwanted emissions in the spurious domain (30MHz to 1GHz) Transmitter unwanted emissions in the spurious domain (above 1GHz) Receiver spurious emissions (30MHz to 1GHz) Receiver spurious emissions (above 1GHz)						
Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	9*6*6 anechoic chamber	SKET	9.3*6.3*6	N/A	2024-09-02	2027-09-01
2	Spectrum analyzer	Agilent	N9020A	MY50530263	2026-01-06	2027-01-05
3	Spectrum analyzer	R&S	FSV-40N	102130	2026-01-06	2027-01-05
4	Bilog Antenna	Schwarzbeck	VULB 9163	1463	2026-01-06	2029-01-05
5	Horn Antenna	SCHWARZBECK	BBHA 9120 D	2487	2026-01-06	2029-01-05
6	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	/	2026-01-06	2029-01-05
7	RF Cable	Tonscend	Cable 1	/	2026-01-06	2027-01-05
8	RF Cable	Tonscend	Cable 2	/	2026-01-06	2027-01-05
9	RF Cable	SKET	Cable 3	/	2026-01-06	2027-01-05
10	L.I.S.N.#1	Schwarzbeck	NSLK8127	/	2026-01-06	2027-01-05
11	L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	2026-01-06	2027-01-05
12	Horn Antenna	SCHWARZBECK	BBHA9170	1130	2026-01-06	2029-01-05

13	Preamplifier	Tonscend	TAP1804 0048	AP21C806126	2026-01-06	2027-01-05
14	Variable-frequency power source	Pinhong	PH1110	/	2026-01-06	2027-01-05
15	6dB Attenuator	SKET	DC-6G	/	2026-01-06	2027-01-05
16	Antenna tower	SKT	Bk-4AT- BS	AT202104010 1-V1	2026-01-06	2027-01-05

5. TEST RESULTS

5.1. Radio Spectrum Matter Test Results (RF)

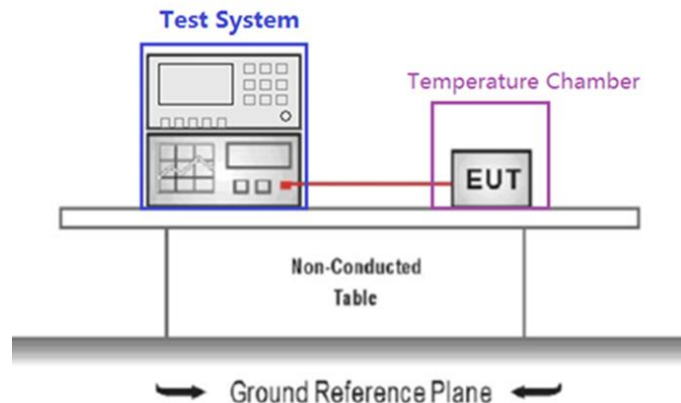
5.1.1. RF Power

Test Requirement:	Clause 4.3.2.2.1
Test Limit:	<=20dBm
Test Method:	Clause 5.4.2.2.1
Procedure:	Clause 5.4.2.2.1.2

5.1.1.1. E.U.T. Operation

Operating Environment:					
Temperature:	23 °C	Humidity:	56.3 %	Atmospheric Pressure:	102.3 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

5.1.1.2. Test Setup Diagram



5.1.1.3. Test Result

Pass

5.1.1.4. Test Data

Please Refer to Appendix for Details.

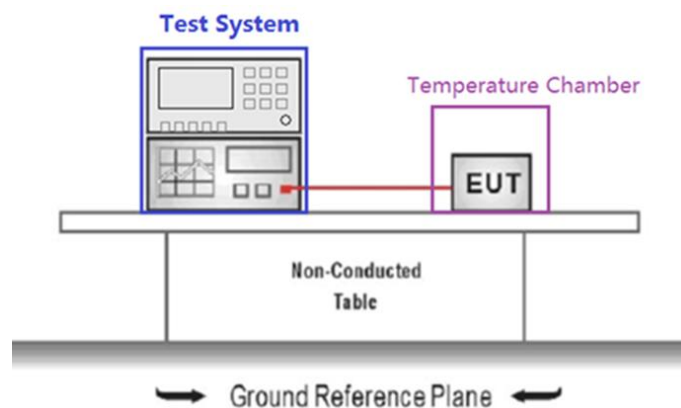
5.1.2. Power Spectral Density

Test Requirement:	Clause 4.3.2.3.1
Test Limit:	$\leq 10\text{dBm/MHz}$
Test Method:	Clause 5.4.3.2.1
Procedure:	Clause 5.4.3.2.1

5.1.2.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.9 °C	Humidity:	55.4 %	Atmospheric Pressure:	102.3 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

5.1.2.2. Test Setup Diagram



5.1.2.3. Test Result

Pass

5.1.2.4. Test Data

Please Refer to Appendix for Details.

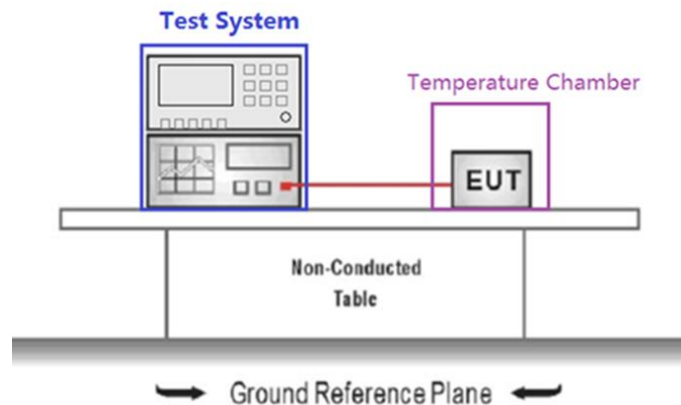
5.1.3. Occupied Channel Bandwidth

Test Requirement:	Clause 4.3.2.7.1
Test Limit:	Clause 4.3.2.7.3
Test Method:	Clause 5.4.7.2.1
Procedure:	Clause 5.4.7.2

5.1.3.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.2 °C	Humidity:	56.7 %	Atmospheric Pressure:	102.3 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

5.1.3.2. Test Setup Diagram



5.1.3.3. Test Result

Pass

5.1.3.4. Test Data

Please Refer to Appendix for Details.

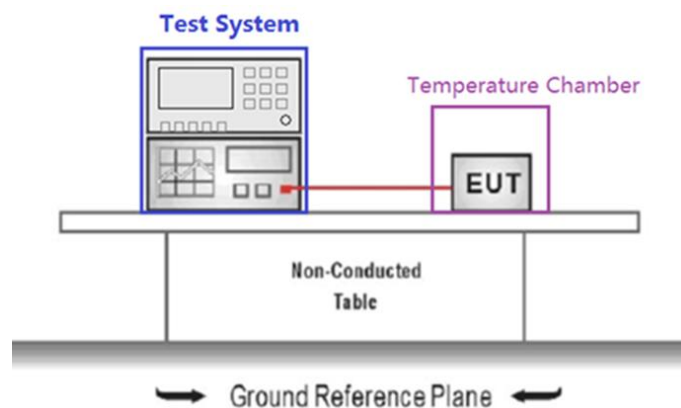
5.1.4. Transmitter unwanted emissions in the out-of-band domain

Test Requirement:	Clause 4.3.2.8.1
Test Limit:	Clause 4.3.2.8.3
Test Method:	Clause 5.4.8.2.1
Procedure:	Clause 5.4.8.2.1

5.1.4.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.1 °C	Humidity:	56.6 %	Atmospheric Pressure:	102.3 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

5.1.4.2. Test Setup Diagram



5.1.4.3. Test Result

Pass

5.1.4.4. Test Data

Please Refer to Appendix for Details.

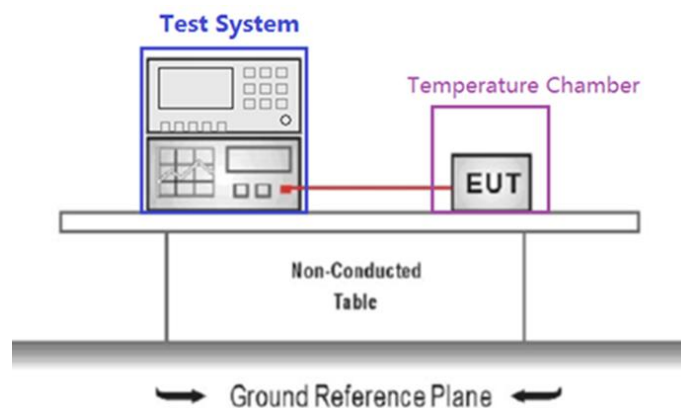
5.1.5. Transmitter unwanted emissions in the spurious domain, conducted

Test Requirement:	Clause 4.3.2.9.1
Test Limit:	Clause 4.3.2.9.3
Test Method:	Clause 5.4.9.2.1
Procedure:	Clause 5.4.9.2.1

5.1.5.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.1 °C	Humidity:	56.3 %	Atmospheric Pressure:	102.3 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

5.1.5.2. Test Setup Diagram



5.1.5.3. Test Result

Pass

5.1.5.4. Test Data

Please Refer to Appendix for Details.

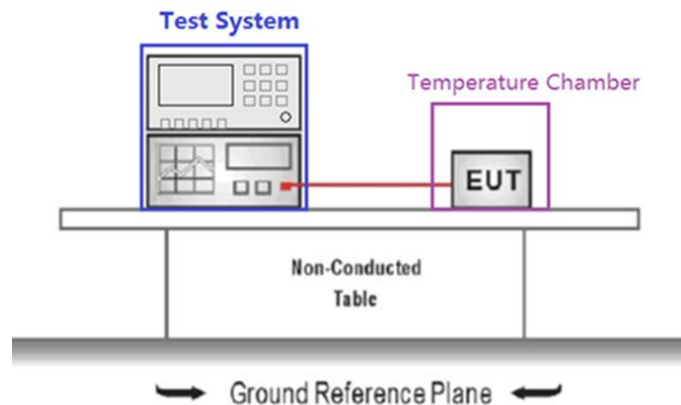
5.1.6. Receiver spurious emissions, conducted

Test Requirement:	Clause 4.3.2.10.1
Test Limit:	Clause 4.3.2.10.3
Test Method:	Clause 5.4.10.2.1
Procedure:	Clause 5.4.10.2.1

5.1.6.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.4 °C	Humidity:	56.7 %	Atmospheric Pressure:	102.3 kPa
Pre test mode:	Mode4				
Final test mode:	Mode4				

5.1.6.2. Test Setup Diagram



5.1.6.3. Test Result

Pass

5.1.6.4. Test Data

Please Refer to Appendix for Details.

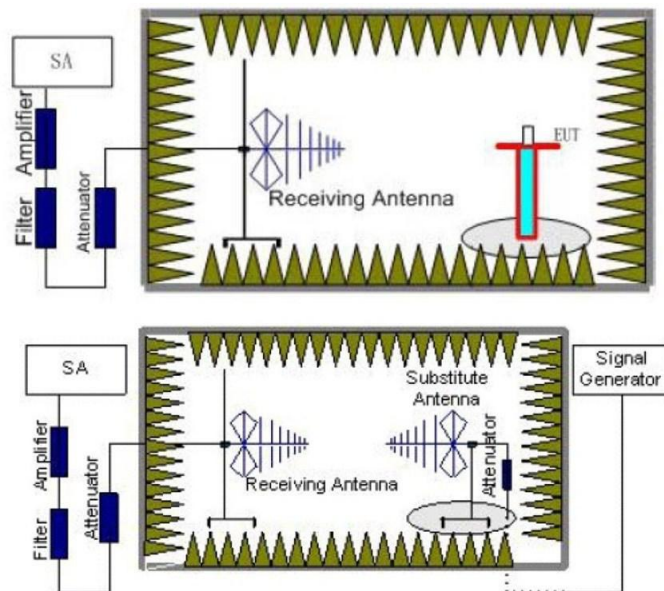
5.1.7. Transmitter unwanted emissions in the spurious domain (30MHz to 1GHz)

Test Requirement:	Clause 4.3.2.9.1
Test Limit:	Clause 4.3.2.9.3
Test Method:	Clause 5.4.9.2.2
Procedure:	Clause 5.4.9.2.2

5.1.7.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.9 °C	Humidity:	55.8 %	Atmospheric Pressure:	102.3 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode3) is recorded in the report				

5.1.7.2. Test Setup Diagram

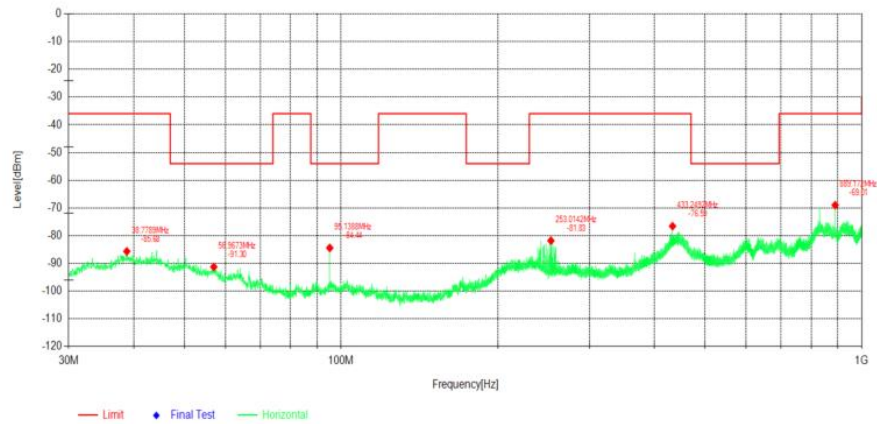


5.1.7.3. Test Result

Pass

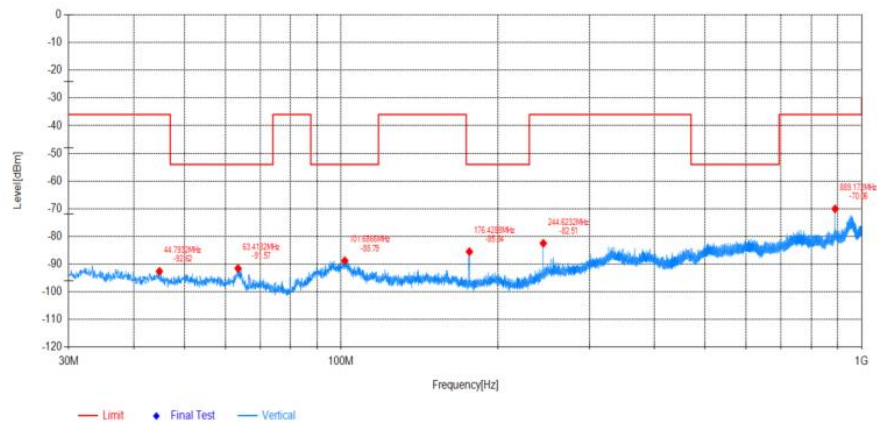
5.1.7.4. Test Data

Mode3 / Polarization: Horizontal / CH: L



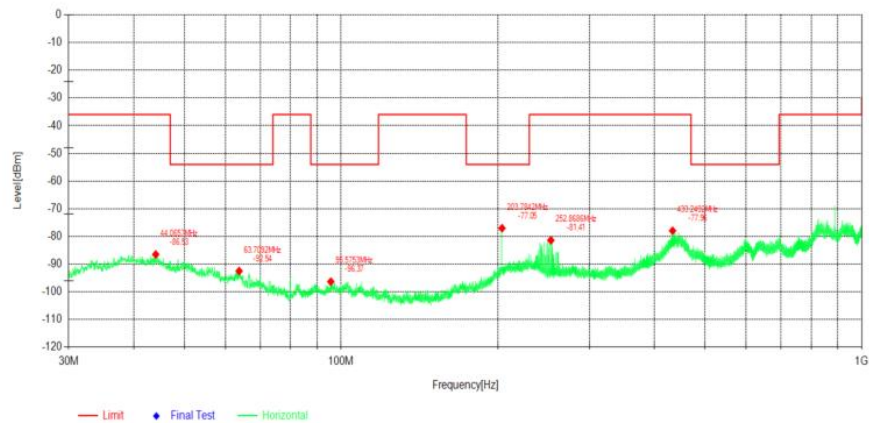
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	38.7789	-72.41	-85.68	-36.00	49.68	-13.27	PASS
2	56.9673	-72.69	-91.30	-54.00	37.30	-18.61	PASS
3	95.1388	-60.67	-84.44	-54.00	30.44	-23.77	PASS
4	253.0142	-63.62	-81.83	-36.00	45.83	-18.21	PASS
5	433.2492	-69.08	-76.59	-36.00	40.59	-7.51	PASS
6	889.172	-65.32	-69.01	-36.00	33.01	-3.69	PASS

Mode3 / Polarization: Vertical / CH: L



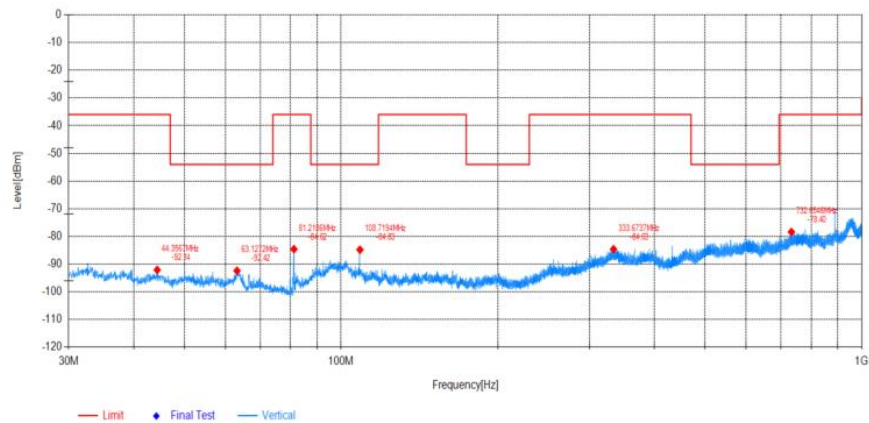
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	44.7932	-72.62	-92.62	-36.00	56.62	-20.00	PASS
2	63.4182	-69.54	-91.57	-54.00	37.57	-22.03	PASS
3	101.6866	-73.21	-88.79	-54.00	34.79	-15.58	PASS
4	176.4288	-63.40	-85.54	-54.00	31.54	-22.14	PASS
5	244.6232	-63.43	-82.51	-36.00	46.51	-19.08	PASS
6	889.172	-65.24	-70.06	-36.00	34.06	-4.82	PASS

Mode3 / Polarization: Horizontal / CH: H



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	44.0657	-72.52	-86.53	-36.00	50.53	-14.01	PASS
2	63.7092	-71.48	-92.54	-54.00	38.54	-21.06	PASS
3	95.5753	-72.64	-96.37	-54.00	42.37	-23.73	PASS
4	203.7842	-59.36	-77.05	-54.00	23.05	-17.69	PASS
5	252.8686	-63.19	-81.41	-36.00	45.41	-18.22	PASS
6	433.2492	-70.45	-77.96	-36.00	41.96	-7.51	PASS

Mode3 / Polarization: Vertical / CH: H



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	44.3567	-72.17	-92.14	-36.00	56.14	-19.97	PASS
2	63.1272	-70.46	-92.42	-54.00	38.42	-21.96	PASS
3	81.2186	-60.29	-84.62	-36.00	48.62	-24.33	PASS
4	108.7194	-66.49	-84.83	-54.00	30.83	-18.34	PASS
5	333.6737	-72.46	-84.63	-36.00	48.63	-12.17	PASS
6	732.6546	-71.73	-78.40	-36.00	42.40	-6.67	PASS

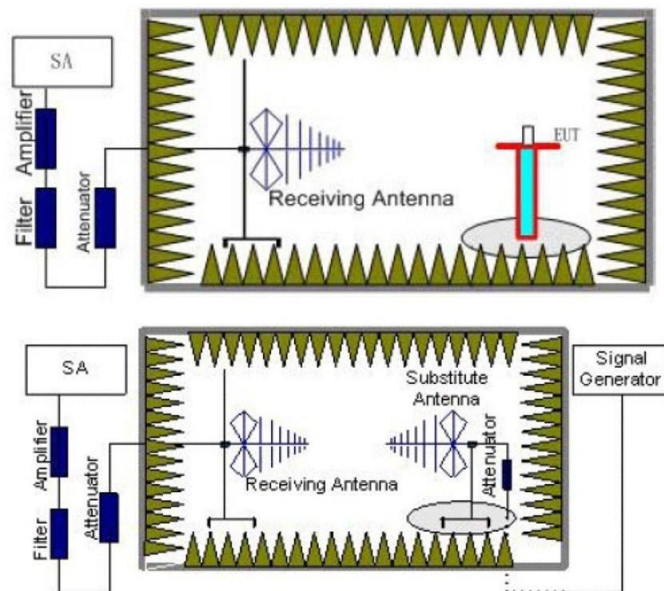
5.1.8. Transmitter unwanted emissions in the spurious domain (above 1GHz)

Test Requirement:	Clause 4.3.2.9.1
Test Limit:	Clause 4.3.2.9.3
Test Method:	Clause 5.4.9.2.2
Procedure:	Clause 5.4.9.2.2

5.1.8.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.2 °C	Humidity:	56.6 %	Atmospheric Pressure:	102.3 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode3) is recorded in the report				

5.1.8.2. Test Setup Diagram

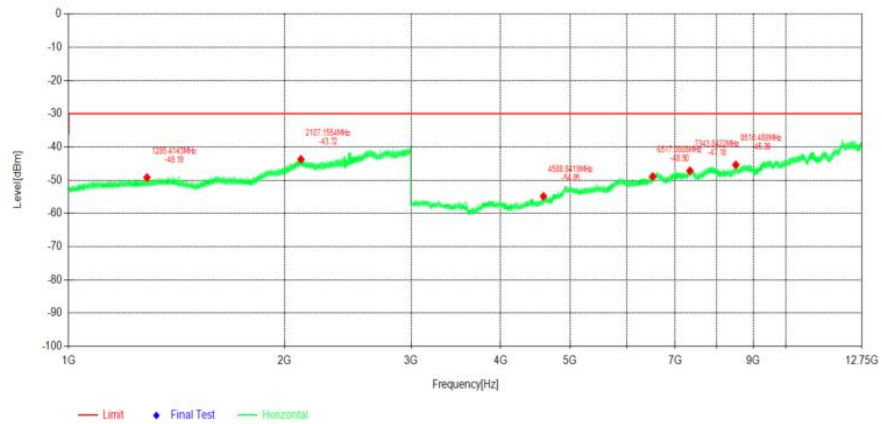


5.1.8.3. Test Result

Pass

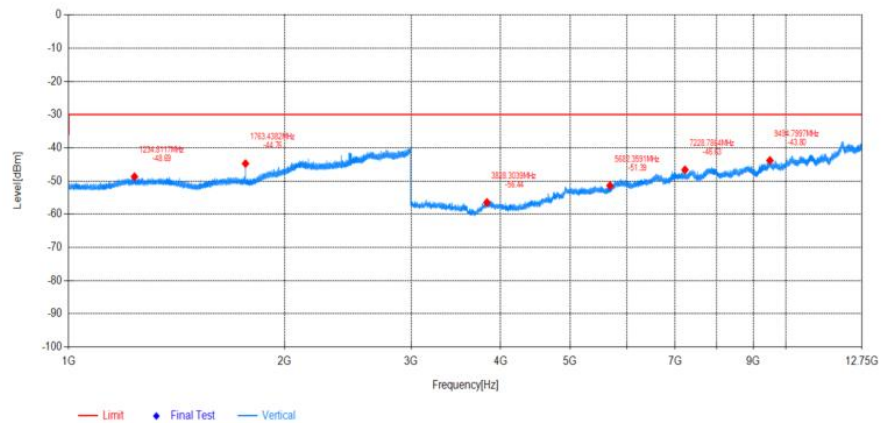
5.1.8.4. Test Data

Mode3 / Polarization: Horizontal / CH: L



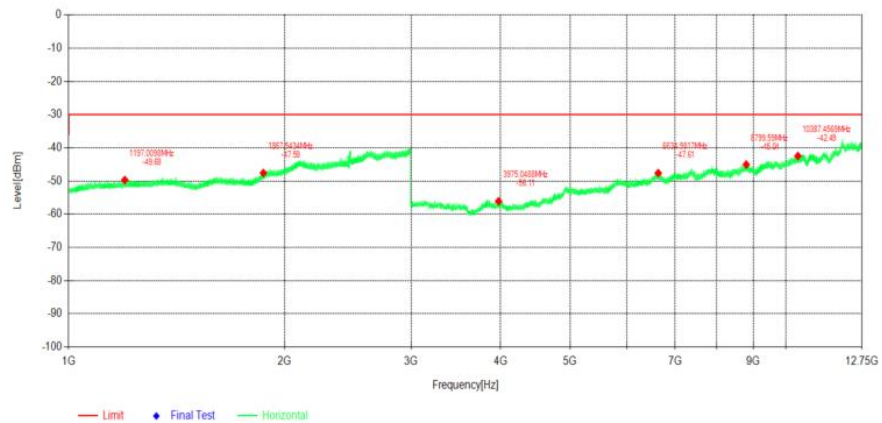
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	1285.4143	-91.05	-49.19	-30.00	19.19	41.86	PASS
2	2107.1554	-90.05	-43.72	-30.00	13.72	46.33	PASS
3	4588.8419	-67.19	-54.85	-30.00	24.85	12.34	PASS
4	6517.0008	-67.64	-48.90	-30.00	18.90	18.74	PASS
5	7343.8422	-68.16	-47.18	-30.00	17.18	20.98	PASS
6	8510.488	-68.25	-45.39	-30.00	15.39	22.86	PASS

Mode3 / Polarization: Vertical / CH: L



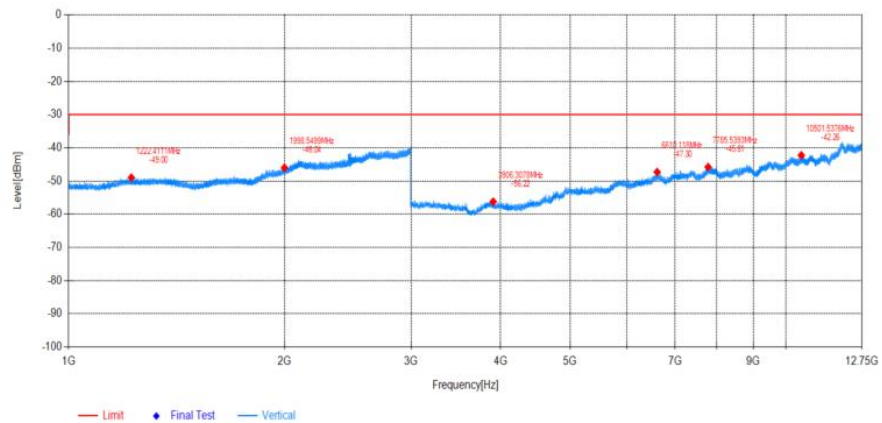
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	1234.8117	-91.16	-48.69	-30.00	18.69	42.47	PASS
2	1763.4382	-86.89	-44.76	-30.00	14.76	42.13	PASS
3	3828.3039	-66.93	-56.44	-30.00	26.44	10.49	PASS
4	5682.3591	-66.96	-51.39	-30.00	21.39	15.57	PASS
5	7228.7864	-67.45	-46.63	-30.00	16.63	20.82	PASS
6	9494.7997	-68.85	-43.80	-30.00	13.80	25.05	PASS

Mode3 / Polarization: Horizontal / CH: H



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	1197.0098	-91.30	-49.69	-30.00	19.69	41.61	PASS
2	1867.5434	-90.86	-47.59	-30.00	17.59	43.27	PASS
3	3975.0488	-67.01	-56.11	-30.00	26.11	10.90	PASS
4	6634.9817	-67.26	-47.61	-30.00	17.61	19.65	PASS
5	8799.59	-69.04	-45.04	-30.00	15.04	24.00	PASS
6	10387.4569	-68.28	-42.49	-30.00	12.49	25.79	PASS

Mode3 / Polarization: Vertical / CH: H



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	1222.4111	-91.46	-49.00	-30.00	19.00	42.46	PASS
2	1998.5499	-90.16	-46.04	-30.00	16.04	44.12	PASS
3	3906.3078	-66.81	-56.22	-30.00	26.22	10.59	PASS
4	6610.118	-66.77	-47.30	-30.00	17.30	19.47	PASS
5	7785.5393	-67.61	-45.81	-30.00	15.81	21.80	PASS
6	10501.5376	-67.43	-42.26	-30.00	12.26	25.17	PASS

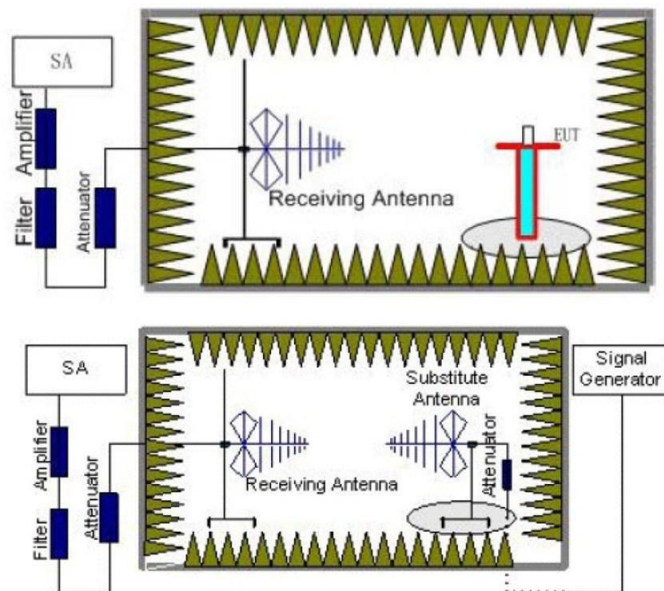
5.1.9. Receiver spurious emissions (30MHz to 1GHz)

Test Requirement:	Clause 4.3.2.10.1
Test Limit:	Clause 4.3.2.10.3
Test Method:	Clause 5.4.10.2.2
Procedure:	Clause 5.4.10.2.2

5.1.9.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.5 °C	Humidity:	56.7 %	Atmospheric Pressure:	102.3 kPa
Pre test mode:	Mode4				
Final test mode:	Mode4				

5.1.9.2. Test Setup Diagram

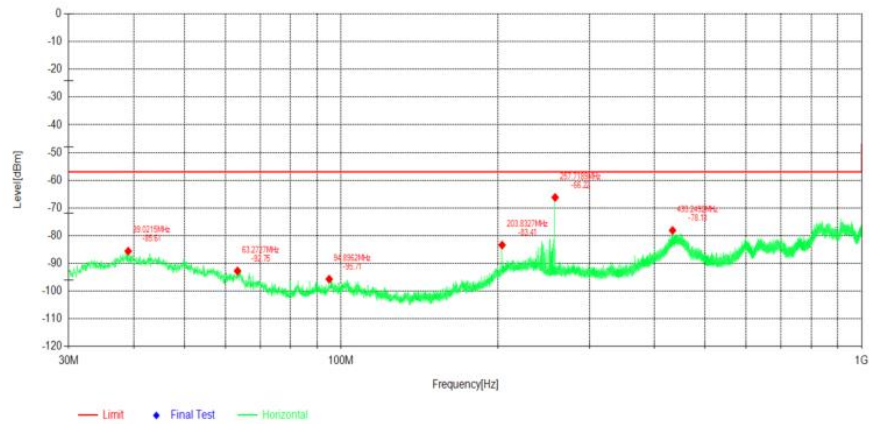


5.1.9.3. Test Result

Pass

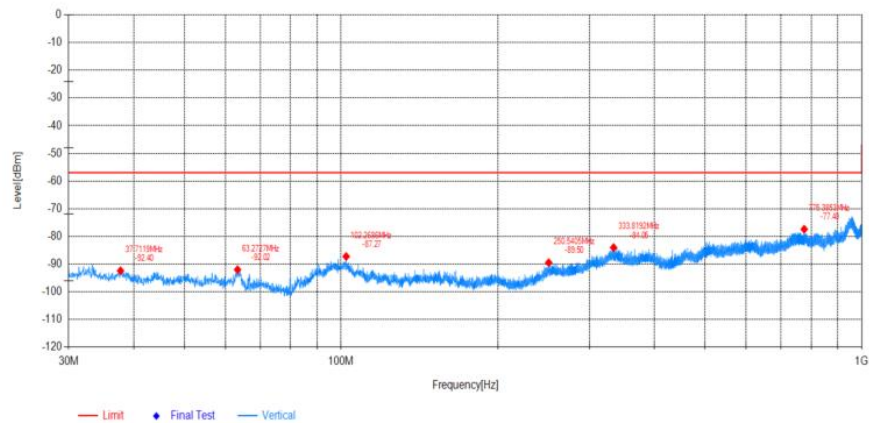
5.1.9.4. Test Data

Mode4 / Polarization: Horizontal / CH: L



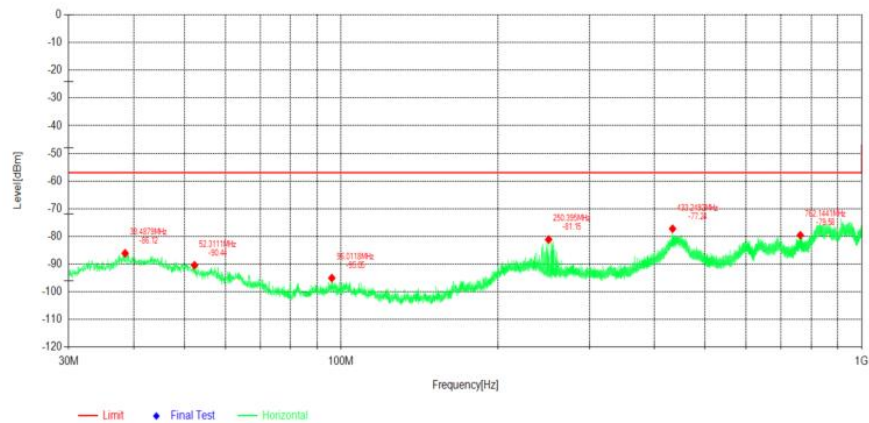
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	39.0215	-72.45	-85.61	-57.00	28.61	-13.16	PASS
2	63.2727	-71.84	-92.75	-57.00	35.75	-20.91	PASS
3	94.8962	-71.91	-95.71	-57.00	38.71	-23.80	PASS
4	203.8327	-65.73	-83.41	-57.00	26.41	-17.68	PASS
5	257.7189	-48.26	-66.22	-57.00	9.22	-17.96	PASS
6	433.2492	-70.62	-78.13	-57.00	21.13	-7.51	PASS

Mode4 / Polarization: Vertical / CH: L



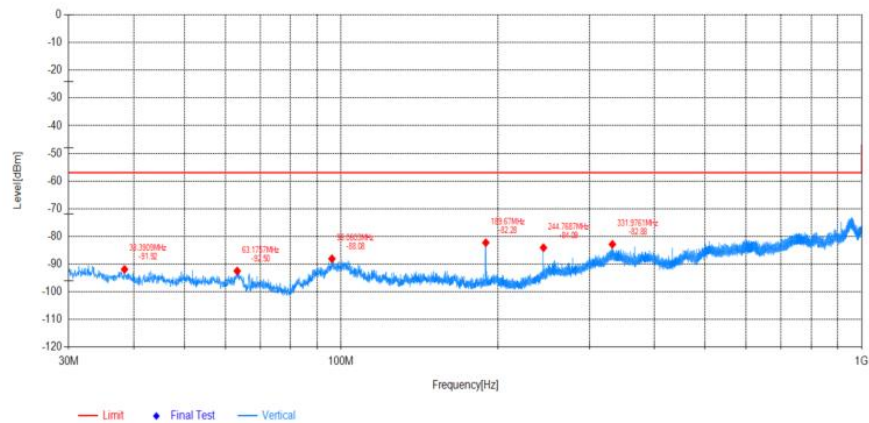
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	37.7119	-73.22	-92.40	-57.00	35.40	-19.18	PASS
2	63.2727	-70.02	-92.02	-57.00	35.02	-22.00	PASS
3	102.2686	-71.46	-87.27	-57.00	30.27	-15.81	PASS
4	250.5405	-71.75	-89.50	-57.00	32.50	-17.75	PASS
5	333.8192	-71.88	-84.05	-57.00	27.05	-12.17	PASS
6	775.3853	-71.20	-77.40	-57.00	20.40	-6.20	PASS

Mode4 / Polarization: Horizontal / CH: H



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	38.4879	-72.71	-86.12	-57.00	29.12	-13.41	PASS
2	52.3111	-73.61	-90.44	-57.00	33.44	-16.83	PASS
3	96.0118	-71.36	-95.05	-57.00	38.05	-23.69	PASS
4	250.395	-62.80	-81.15	-57.00	24.15	-18.35	PASS
5	433.2492	-69.73	-77.24	-57.00	20.24	-7.51	PASS
6	762.1441	-71.60	-79.58	-57.00	22.58	-7.98	PASS

Mode4 / Polarization: Vertical / CH: H



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	38.3909	-72.61	-91.92	-57.00	34.92	-19.31	PASS
2	63.1757	-70.53	-92.50	-57.00	35.50	-21.97	PASS
3	96.0603	-71.88	-88.08	-57.00	31.08	-16.20	PASS
4	189.67	-60.74	-82.28	-57.00	25.28	-21.54	PASS
5	244.7687	-65.04	-84.09	-57.00	27.09	-19.05	PASS
6	331.9761	-70.76	-82.88	-57.00	25.88	-12.12	PASS

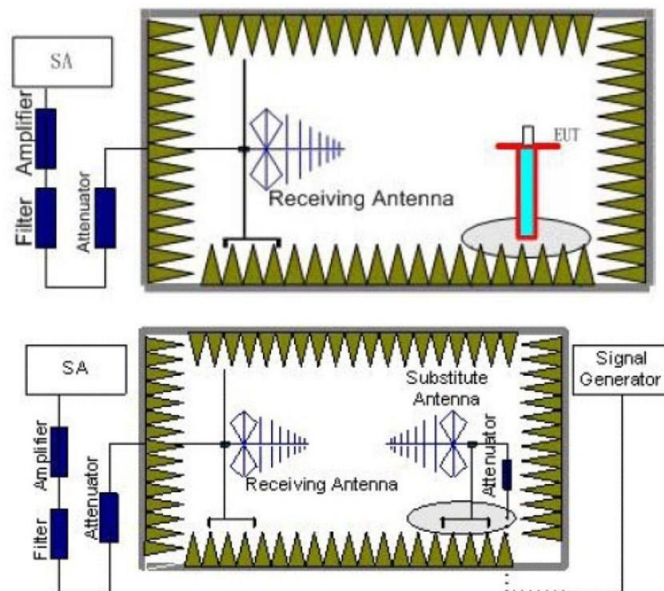
5.1.10. Receiver spurious emissions (above 1GHz)

Test Requirement:	Clause 4.3.2.10.1
Test Limit:	Clause 4.3.2.10.3
Test Method:	Clause 5.4.10.2.2
Procedure:	Clause 5.4.10.2.2

5.1.10.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55.8 %	Atmospheric Pressure:	102.3 kPa
Pre test mode:	Mode4				
Final test mode:	Mode4				

5.1.10.2. Test Setup Diagram

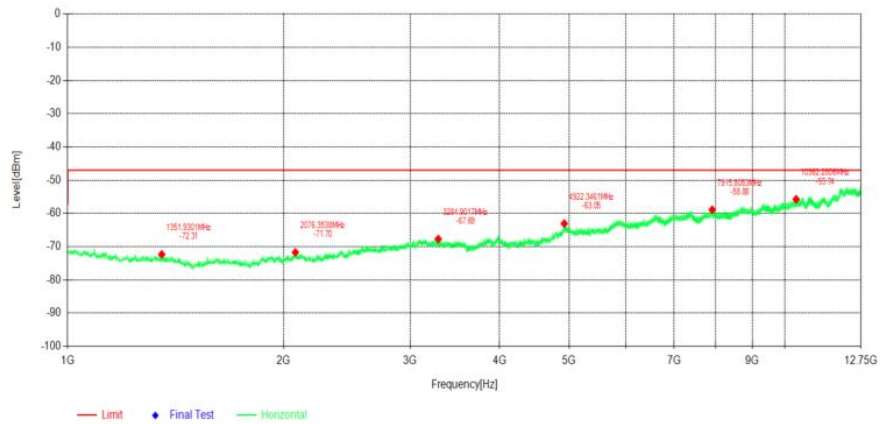


5.1.10.3. Test Result

Pass

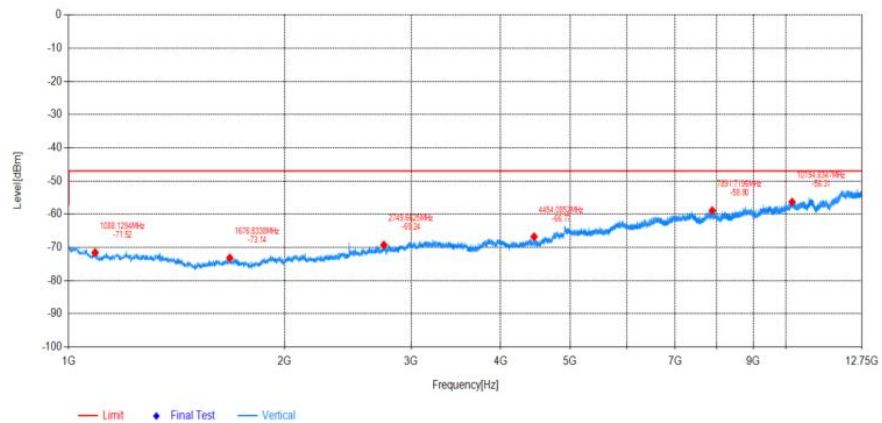
5.1.10.4. Test Data

Mode4 / Polarization: Horizontal / CH: L



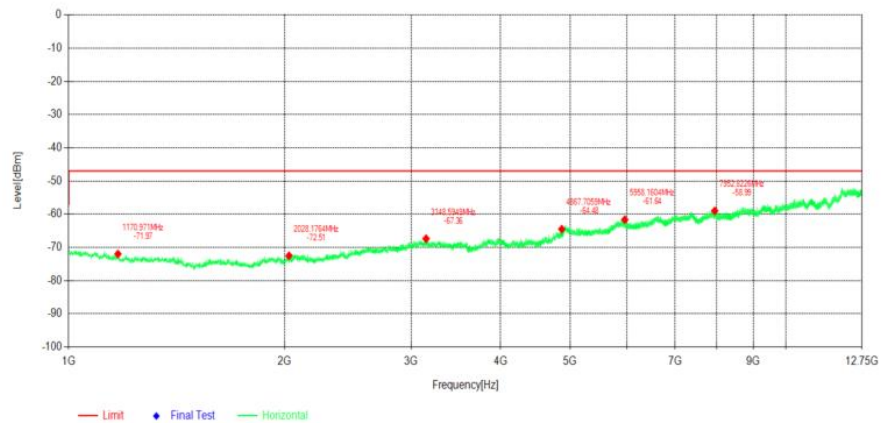
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	1351.9301	-63.94	-72.31	-47.00	25.31	-8.37	PASS
2	2076.3538	-66.21	-71.70	-47.00	24.70	-5.49	PASS
3	3284.9017	-66.44	-67.69	-47.00	20.69	-1.25	PASS
4	4922.3461	-67.75	-63.05	-47.00	16.05	4.70	PASS
5	7915.8083	-71.19	-58.88	-47.00	11.88	12.31	PASS
6	10362.2806	-71.67	-55.74	-47.00	8.74	15.93	PASS

Mode4 / Polarization: Vertical / CH: L



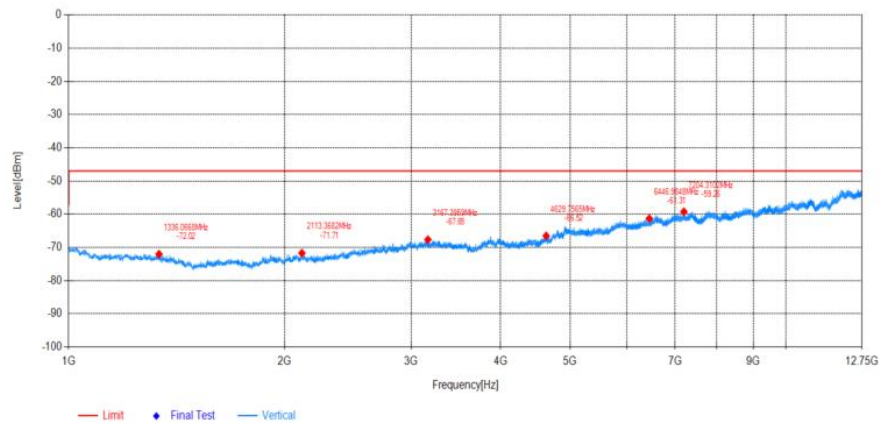
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	1088.1294	-63.97	-71.52	-47.00	24.52	-7.55	PASS
2	1676.8338	-64.50	-73.14	-47.00	26.14	-8.64	PASS
3	2749.6625	-65.53	-69.24	-47.00	22.24	-3.71	PASS
4	4454.0852	-69.22	-66.77	-47.00	19.77	2.45	PASS
5	7891.7196	-70.97	-58.90	-47.00	11.90	12.07	PASS
6	10194.8347	-72.15	-56.31	-47.00	9.31	15.84	PASS

Mode4 / Polarization: Horizontal / CH: H



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	1170.971	-63.97	-71.97	-47.00	24.97	-8.00	PASS
2	2028.1764	-65.99	-72.51	-47.00	25.51	-6.52	PASS
3	3148.5949	-65.90	-67.36	-47.00	20.36	-1.46	PASS
4	4867.7059	-68.87	-64.48	-47.00	17.48	4.39	PASS
5	5958.1604	-69.24	-61.64	-47.00	14.64	7.60	PASS
6	7952.8226	-71.31	-58.99	-47.00	11.99	12.32	PASS

Mode4 / Polarization: Vertical / CH: H



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Verdict
1	1336.0668	-64.03	-72.02	-47.00	25.02	-7.99	PASS
2	2113.3682	-66.48	-71.71	-47.00	24.71	-5.23	PASS
3	3167.3959	-66.07	-67.65	-47.00	20.65	-1.58	PASS
4	4629.7565	-69.32	-66.52	-47.00	19.52	2.80	PASS
5	6446.9848	-69.90	-61.31	-47.00	14.31	8.59	PASS
6	7204.3102	-70.40	-59.26	-47.00	12.26	11.14	PASS

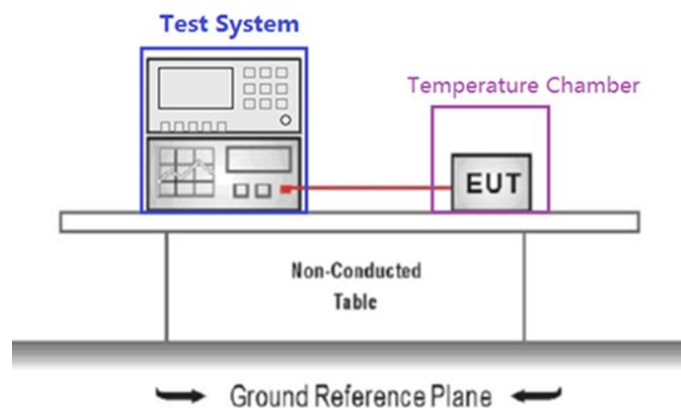
5.1.11. Receiver Blocking

Test Requirement:	Clause 4.3.2.11.1
Test Limit:	Clause 4.3.2.11.4
Test Method:	Clause 5.4.11.2.1
Procedure:	Clause 5.4.11.2.1

5.1.11.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.3 °C	Humidity:	55.7 %	Atmospheric Pressure:	102.3 kPa
Pre test mode:	Mode5				
Final test mode:	Mode5				

5.1.11.2. Test Setup Diagram



5.1.11.3. Test Result

Pass

5.1.11.4. Test Data

Please Refer to Appendix for Details.

6. APPENDIX REPORT

6.1. RF Output Power

Test Result

Condition	Mode	Antenna	Channel	RU & Index	Max EIRP (dBm)	Limit (dBm)	Result
NT/NV	IEEE 802.11b	0	1	N/A	7.62	≤20	PASS
			7		7.50		PASS
			13		9.29		PASS
	IEEE 802.11g		1		7.79		PASS
			7		8.03		PASS
			13		9.12		PASS
	IEEE 802.11n_20		1		7.96		PASS
			7		7.95		PASS
			13		8.34		PASS
LT/NV	IEEE 802.11b	0	1	N/A	7.53	≤20	PASS
			7		8.42		PASS
			13		8.07		PASS
	IEEE 802.11g		1		7.81		PASS
			7		7.33		PASS
			13		7.92		PASS
	IEEE 802.11n_20		1		6.88		PASS
			7		7.18		PASS
			13		8.59		PASS
HT/NV	IEEE 802.11b	0	1	N/A	7.50	≤20	PASS
			7		8.39		PASS
			13		8.04		PASS
	IEEE 802.11g		1		7.78		PASS
			7		7.30		PASS
			13		7.89		PASS
	IEEE 802.11n_20		1		6.85		PASS
			7		7.15		PASS
			13		8.56		PASS

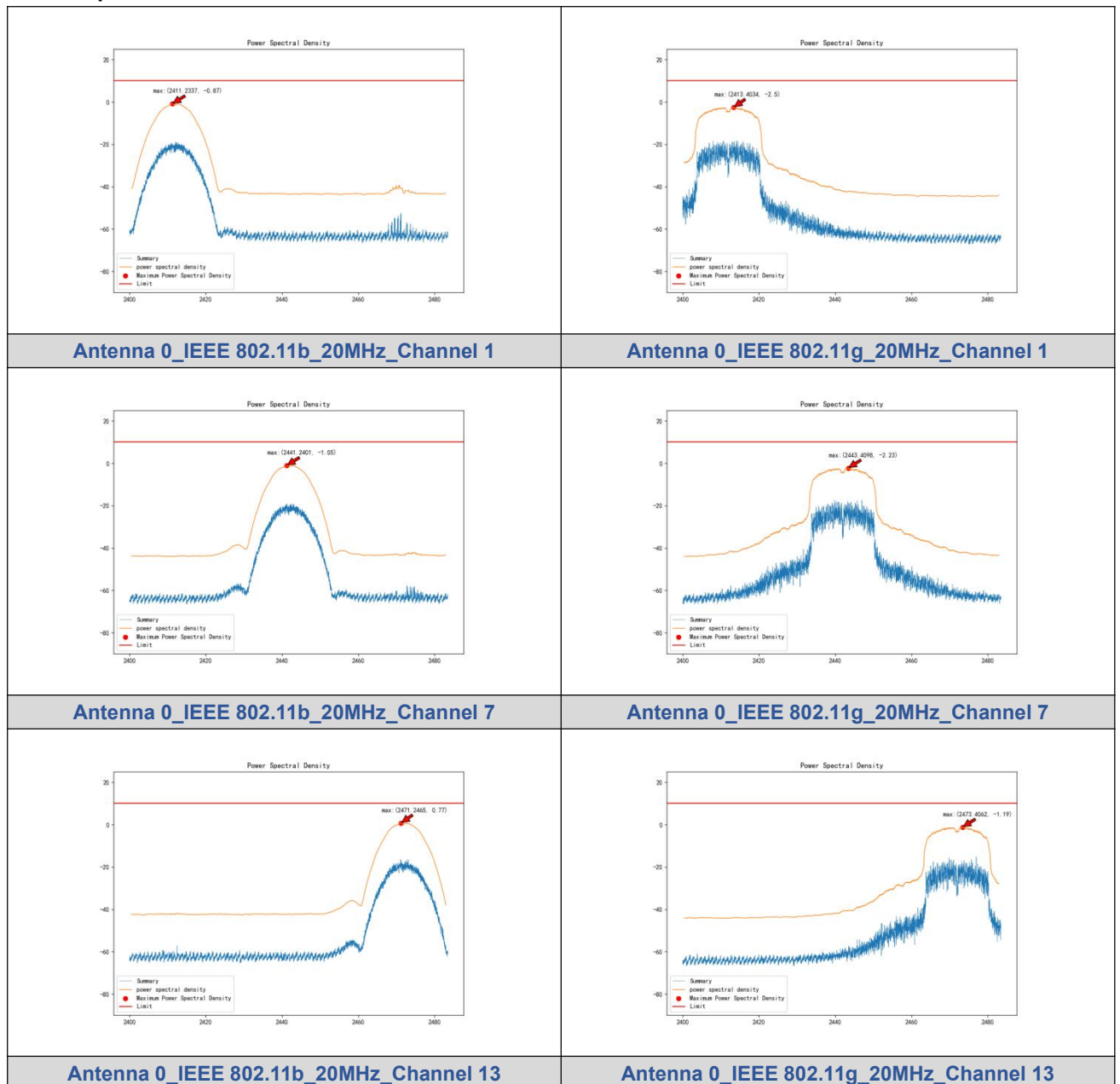
Condition	Mode	Channel	Antenna	Duty Cycle(%)	Tx-Sequence(ms)	Tx-Gap(ms)	Medium Utilization (MU) factor
NT/NV	IEEE 802.11b	1	0	97.82	2.834	0.0	5.66
		7		97.88	1.884	0.0	5.5
		13		98.19	0.944	0.002	8.33
	IEEE 802.11g	1		90.61	0.166	0.012	5.45
		7		88.3	0.164	0.012	5.61
		13		89.06	0.164	0.01	7.27
	IEEE 802.11n_20	1		89.83	0.154	0.01	5.62
		7		89.89	0.156	0.01	5.6
		13		89.95	0.154	0.012	6.14

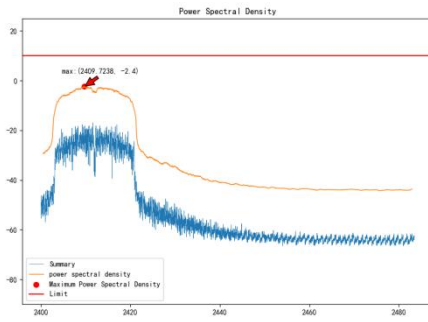
6.2. Power Spectral Density

Test Result

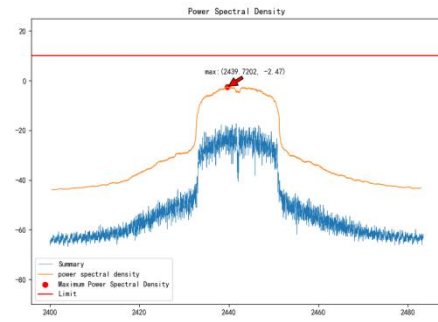
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
IEEE 802.11b	1	-0.87	10	PASS
	7	-1.05		PASS
	13	0.77		PASS
IEEE 802.11g	1	-2.5		PASS
	7	-2.23		PASS
	13	-1.19		PASS
IEEE 802.11n_20	1	-2.4		PASS
	7	-2.47		PASS
	13	-1.98		PASS

Test Graphs

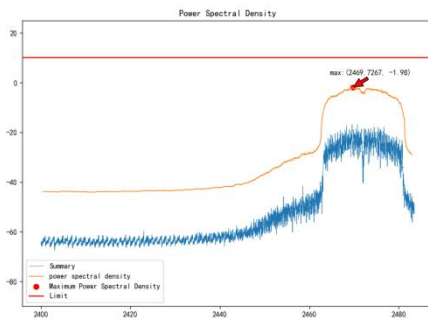




Antenna 0_IEEE 802.11n_20MHz_Channel 1



Antenna 0_IEEE 802.11n_20MHz_Channel 7



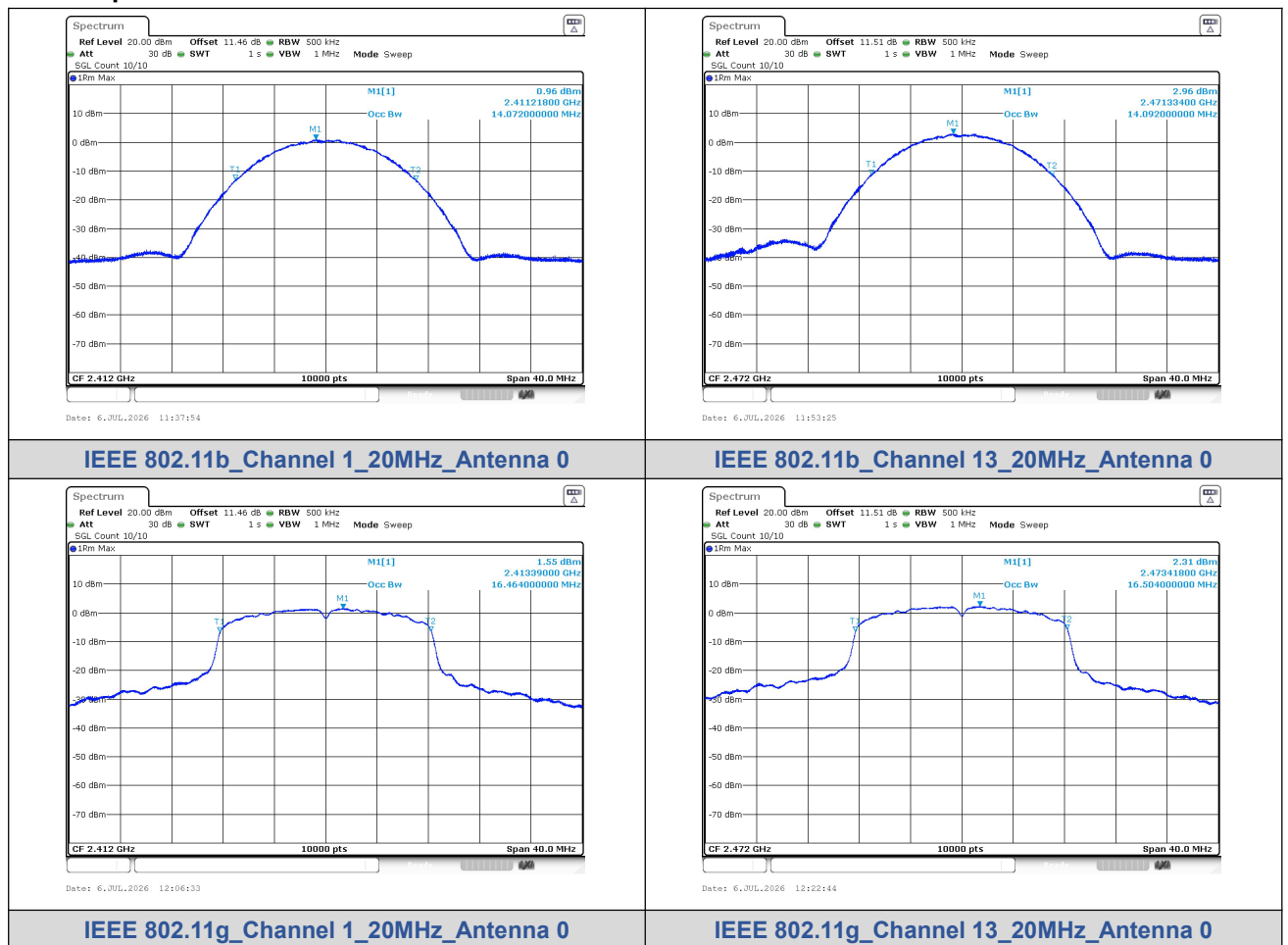
Antenna 0_IEEE 802.11n_20MHz_Channel 13

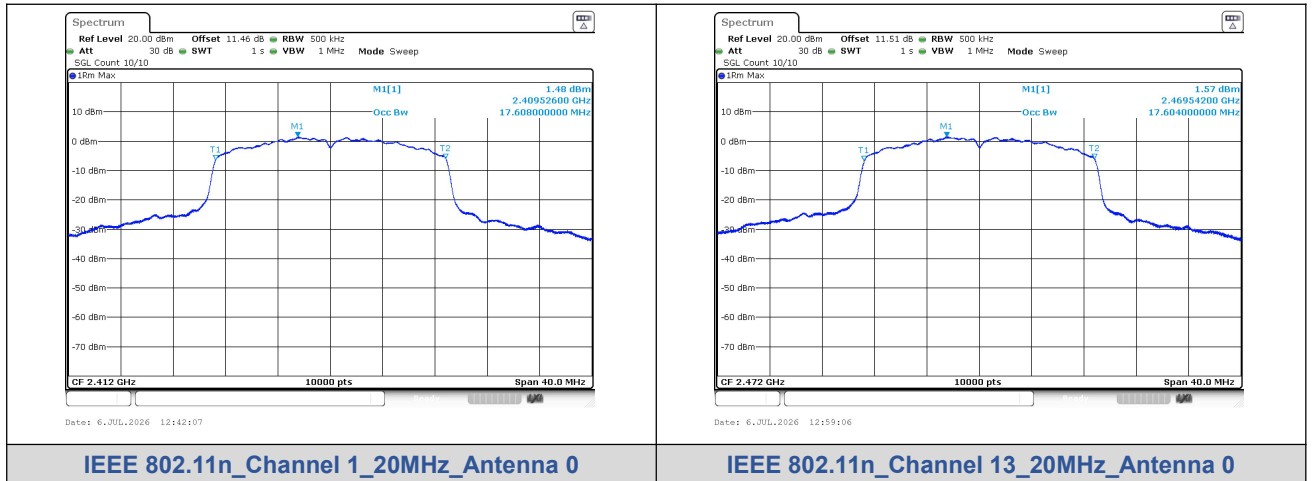
6.3. Occupied Channel Bandwidth

Test Result

Mode	Channel	Ant.	Frequency (MHz)	Occupied Bandwidth (MHz)	FL (MHz)	FH (MHz)	Limit	Result
IEEE 802.11b	1	0	2412	14.072	2404.97	2419.04	2400 MHz to 2483.5 MHz	PASS
	13		2472	14.092	2464.95	2479.04		PASS
IEEE 802.11g	1		2412	16.464	2403.76	2420.23		PASS
	13		2472	16.504	2463.72	2480.23		PASS
IEEE 802.11n_20	1		2412	17.608	2403.23	2420.83		PASS
	13		2472	17.604	2463.21	2480.82		PASS

Test Graphs



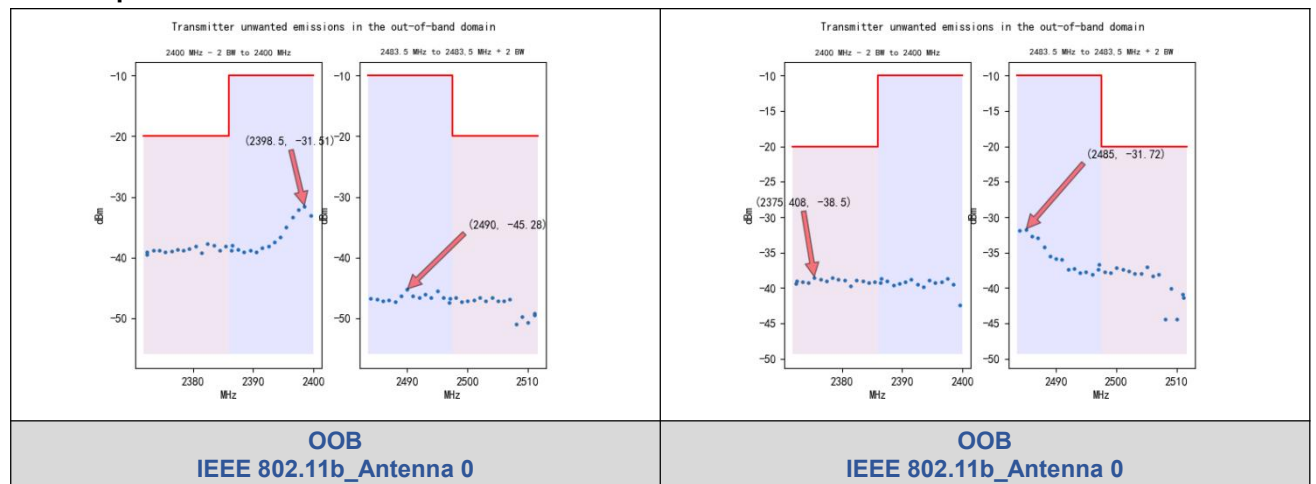


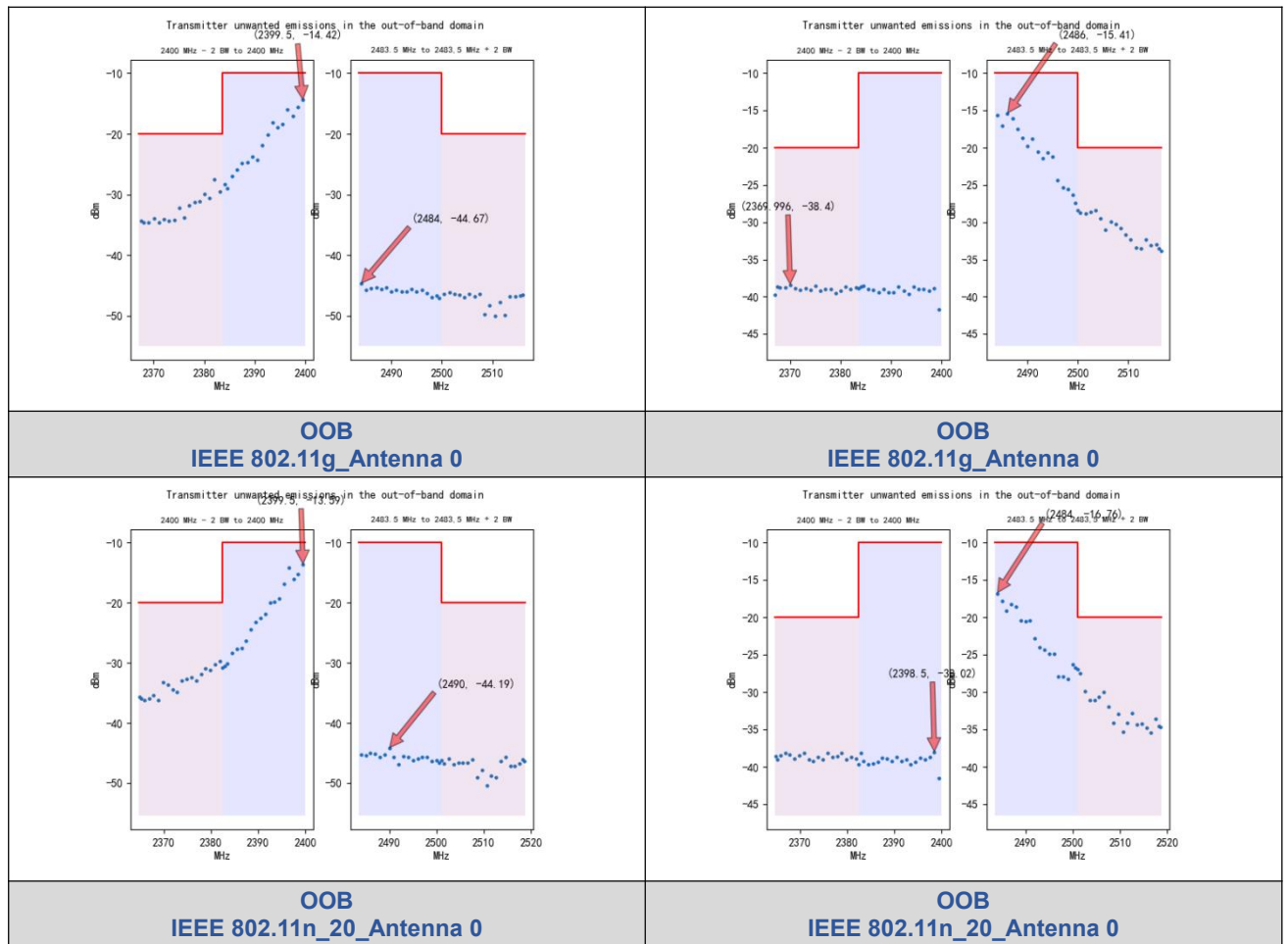
6.4. Transmitter unwanted emissions in the out-of-band domain

Test Result

Mode	Ant No.	Channel	Start Frequency (MHz)	Stop Frequency (MHz)	Mark Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
IEEE 802.11b	0	1	2400 -2BW	2400-BW	2386.852	-37.77	-20	-17.77	PASS
			2400 -BW	2400	2399.5	-31.51	-10	-21.51	PASS
			2483.5	2483.5+BW	2485	-45.28	-10	-35.28	PASS
			2483.5+BW	2483.5+2BW	2508.296	-46.57	-20	-26.57	PASS
		13	2400 -2BW	2400-BW	2382.564	-38.5	-20	-18.5	PASS
			2400-BW	2400	2393.5	-38.67	-10	-28.67	PASS
			2483.5	2483.5+BW	2487	-31.72	-10	-21.72	PASS
			2483.5 +BW	2483.5+2BW	2506.936	-36.99	-20	-16.99	PASS
IEEE 802.11g	0	1	2400 -2BW	2400-BW	2382.1	-27.56	-20	-7.56	PASS
			2400 -BW	2400	2399.5	-14.42	-10	-4.42	PASS
			2483.5	2483.5+BW	2486	-44.67	-10	-34.67	PASS
			2483.5+BW	2483.5+2BW	2501.4	-46.19	-20	-26.19	PASS
		13	2400 -2BW	2400-BW	2383.008	-38.4	-20	-18.4	PASS
			2400-BW	2400	2398.5	-38.53	-10	-28.53	PASS
			2483.5	2483.5+BW	2484	-15.41	-10	-5.41	PASS
			2483.5+ BW	2483.5+2BW	2504.492	-28.4	-20	-8.4	PASS
IEEE 802.11n_20	0	1	2400 -2BW	2400-BW	2366.924	-29.73	-20	-9.73	PASS
			2400-BW	2400	2399.5	-13.59	-10	-3.59	PASS
			2483.5	2483.5+BW	2484	-44.19	-10	-34.19	PASS
			2483.5+BW	2483.5+2BW	2507.576	-45.67	-20	-25.67	PASS
		13	2400-2BW	2400-BW	2375.82	-38.08	-20	-18.08	PASS
			2400-BW	2400	2394.5	-38.02	-10	-28.02	PASS
			2483.5	2483.5+BW	2484	-16.76	-10	-6.76	PASS
			2483.5+BW	2483.5+2BW	2507.68	-27.48	-20	-7.48	PASS

Test Graphs





6.5. Transmitter unwanted emissions in the spurious domain

Mode	Ch.	Ant.	Start Frequency (MHz)	Stop Frequency (MHz)	Mark Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
IEEE 802.11b	1	0	30	47	45.27	-60.239	-36	-24.239	PASS
			47	74	47.77	-57.660	-54	-3.660	PASS
			74	87.5	83.38	-70.782	-36	-34.782	PASS
			87.5	118	90.03	-68.805	-54	-14.805	PASS
			118	174	124.97	-72.040	-36	-36.040	PASS
			174	230	211.62	-72.567	-54	-18.567	PASS
			230	470	249.97	-67.381	-36	-31.381	PASS
			470	694	619.08	-68.221	-54	-14.221	PASS
			694	1000	833.58	-66.935	-36	-30.935	PASS
			1000	12750	5752.7	-38.590	-30	-8.590	PASS
	13		30	47	43.77	-60.065	-36	-24.065	PASS
			47	74	47.83	-56.460	-54	-2.460	PASS
			74	87.5	84.22	-69.270	-36	-33.270	PASS
			87.5	118	90.03	-68.362	-54	-14.362	PASS
			118	174	150.03	-71.919	-36	-35.919	PASS
			174	230	227.03	-71.454	-54	-17.454	PASS
			230	470	250.03	-66.965	-36	-30.965	PASS
			470	694	479.98	-70.762	-54	-16.762	PASS
			694	1000	825.27	-48.251	-36	-12.251	PASS
			1000	12750	2590.4	-36.440	-30	-6.440	PASS
IEEE 802.11g	1		30	47	45.73	-60.110	-36	-24.110	PASS
			47	74	47.83	-56.600	-54	-2.600	PASS
			74	87.5	83.38	-70.492	-36	-34.492	PASS
			87.5	118	90.03	-68.949	-54	-14.949	PASS
			118	174	129.97	-71.465	-36	-35.465	PASS
			174	230	199.97	-71.189	-54	-17.189	PASS
			230	470	329.02	-49.207	-36	-13.207	PASS
			470	694	616.73	-66.680	-54	-12.680	PASS
			694	1000	824.98	-68.757	-36	-32.757	PASS
			1000	12750	2080.4	-36.540	-30	-6.540	PASS
	13		30	47	43.83	-59.608	-36	-23.608	PASS
			47	74	47.77	-56.990	-54	-2.990	PASS
			74	87.5	81.22	-70.337	-36	-34.337	PASS
			87.5	118	90.03	-67.606	-54	-13.606	PASS
			118	174	149.97	-70.003	-36	-34.003	PASS
			174	230	215.07	-72.174	-54	-18.174	PASS
			230	470	343.82	-48.412	-36	-12.412	PASS
			470	694	692.48	-70.385	-54	-16.385	PASS
			694	1000	736.73	-55.172	-36	-19.172	PASS
			1000	12750	2131.3	-34.960	-30	-4.960	PASS
IEEE 802.11n_20	1		30	47	43.83	-59.949	-36	-23.949	PASS
			47	74	47.83	-56.550	-54	-2.550	PASS

			74	87.5	81.47	-70.138	-36	-34.138	PASS
			87.5	118	90.03	-68.259	-54	-14.259	PASS
			118	174	159.97	-71.409	-36	-35.409	PASS
			174	230	225.82	-72.119	-54	-18.119	PASS
			230	470	332.52	-48.523	-36	-12.523	PASS
			470	694	615.98	-65.840	-54	-11.840	PASS
			694	1000	828.27	-68.017	-36	-32.017	PASS
			1000	12750	2082.0	-37.200	-30	-7.200	PASS
	13		30	47	45.67	-60.574	-36	-24.574	PASS
			47	74	47.83	-55.840	-54	-1.840	PASS
			74	87.5	82.03	-71.455	-36	-35.455	PASS
			87.5	118	90.03	-68.275	-54	-14.275	PASS
			118	174	160.03	-71.364	-36	-35.364	PASS
			174	230	208.03	-71.406	-54	-17.406	PASS
			230	470	335.73	-52.825	-36	-16.825	PASS
			470	694	608.98	-71.372	-54	-17.372	PASS
			694	1000	738.17	-58.394	-36	-22.394	PASS
			1000	12750	2133.7	-37.580	-30	-7.580	PASS

6.6. Receiver spurious emissions

Test Result

Mode	Ant No.	Channel	Start Frequency (MHz)	Stop Frequency (MHz)	Mark Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
IEEE 802.11b	0	1	30	1000	787.12	-64.18	-57	-7.18	PASS
			1000	12750	11211.7	-65.56	-47	-18.56	PASS
		13	30	1000	873.02	-63.57	-57	-6.57	PASS
			1000	12750	6089.9	-69.52	-47	-22.52	PASS
IEEE 802.11g		1	30	1000	699.67	-62.80	-57	-5.80	PASS
			1000	12750	11071.5	-68.76	-47	-21.76	PASS
		13	30	1000	773.77	-62.65	-57	-5.65	PASS
			1000	12750	11216.0	-69.15	-47	-22.15	PASS
IEEE 802.11n_20		1	30	1000	813.73	-61.93	-57	-4.93	PASS
			1000	12750	6936.3	-69.61	-47	-22.61	PASS
		13	30	1000	922.33	-69.22	-57	-12.22	PASS
			1000	12750	6116.1	-63.30	-47	-16.30	PASS

6.7. Receiver Blocking

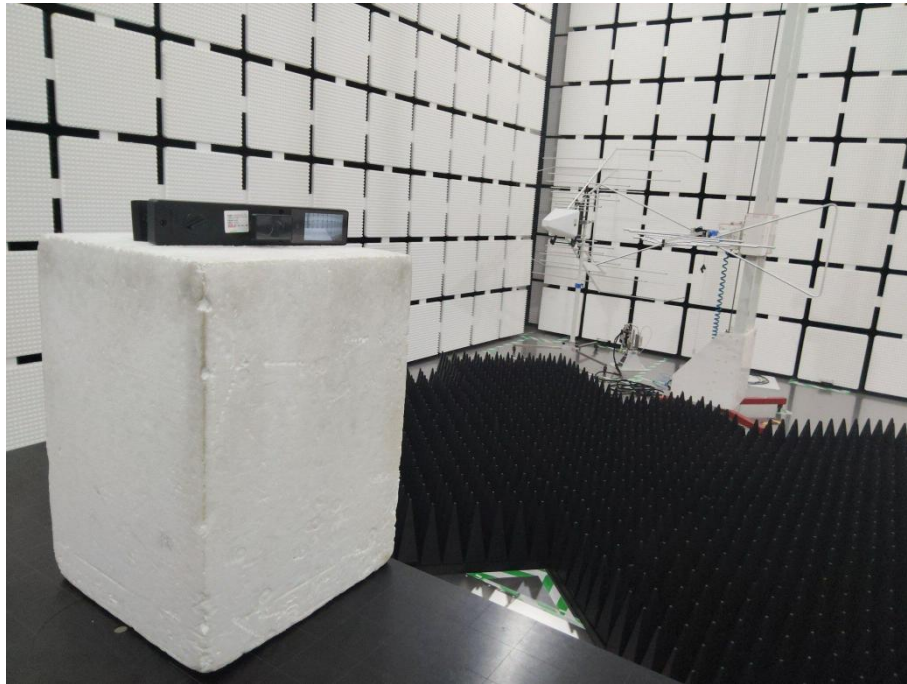
Test Result

Test Mode	Channel	Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%)		Test Result
				Test Value	Limit		Test Value	Limit	
IEEE 802.11b	1	-68	2380	-24	≥ -34	CW	1.68	10	PASS
			2504	-33	≥ -34	CW	1.65	10	PASS
		-74	2300	-24	≥ -34	CW	0.32	10	PASS
			2330	-25	≥ -34	CW	0.10	10	PASS
			2360	-24	≥ -34	CW	0.82	10	PASS
			2524	-23	≥ -34	CW	1.52	10	PASS
			2584	-30	≥ -34	CW	0.30	10	PASS
			2674	-24	≥ -34	CW	1.21	10	PASS
	13	-68	2380	-22	≥ -34	CW	0.95	10	PASS
			2504	-27	≥ -34	CW	1.77	10	PASS
		-74	2300	-16	≥ -34	CW	1.27	10	PASS
			2330	-24	≥ -34	CW	0.76	10	PASS
			2360	-30	≥ -34	CW	0.39	10	PASS
			2524	-30	≥ -34	CW	1.63	10	PASS
			2584	-31	≥ -34	CW	0.97	10	PASS
			2674	-21	≥ -34	CW	1.61	10	PASS
IEEE 802.11g	1	-68	2380	-24	≥ -34	CW	1.48	10	PASS
			2504	-33	≥ -34	CW	1.98	10	PASS
		-74	2300	-24	≥ -34	CW	0.42	10	PASS
			2330	-25	≥ -34	CW	1.67	10	PASS
			2360	-24	≥ -34	CW	0.36	10	PASS
			2524	-23	≥ -34	CW	0.96	10	PASS
			2584	-30	≥ -34	CW	1.69	10	PASS
			2674	-24	≥ -34	CW	0.81	10	PASS
	13	-68	2380	-22	≥ -34	CW	0.81	10	PASS
			2504	-27	≥ -34	CW	1.82	10	PASS
		-74	2300	-16	≥ -34	CW	1.07	10	PASS
			2330	-24	≥ -34	CW	1.89	10	PASS
			2360	-30	≥ -34	CW	0.45	10	PASS
			2524	-30	≥ -34	CW	0.79	10	PASS
			2584	-31	≥ -34	CW	0.76	10	PASS
			2674	-21	≥ -34	CW	1.91	10	PASS
IEEE 802.11n_20	1	-68	2380	-24	≥ -34	CW	1.76	10	PASS
			2504	-33	≥ -34	CW	0.98	10	PASS
		-74	2300	-24	≥ -34	CW	1.12	10	PASS
			2330	-25	≥ -34	CW	0.45	10	PASS
			2360	-24	≥ -34	CW	0.45	10	PASS
			2524	-23	≥ -34	CW	0.54	10	PASS
			2584	-30	≥ -34	CW	1.49	10	PASS
			2674	-24	≥ -34	CW	1.57	10	PASS
	13	-68	2380	-22	≥ -34	CW	1.86	10	PASS
			2504	-27	≥ -34	CW	1.97	10	PASS
		-74	2300	-16	≥ -34	CW	0.71	10	PASS

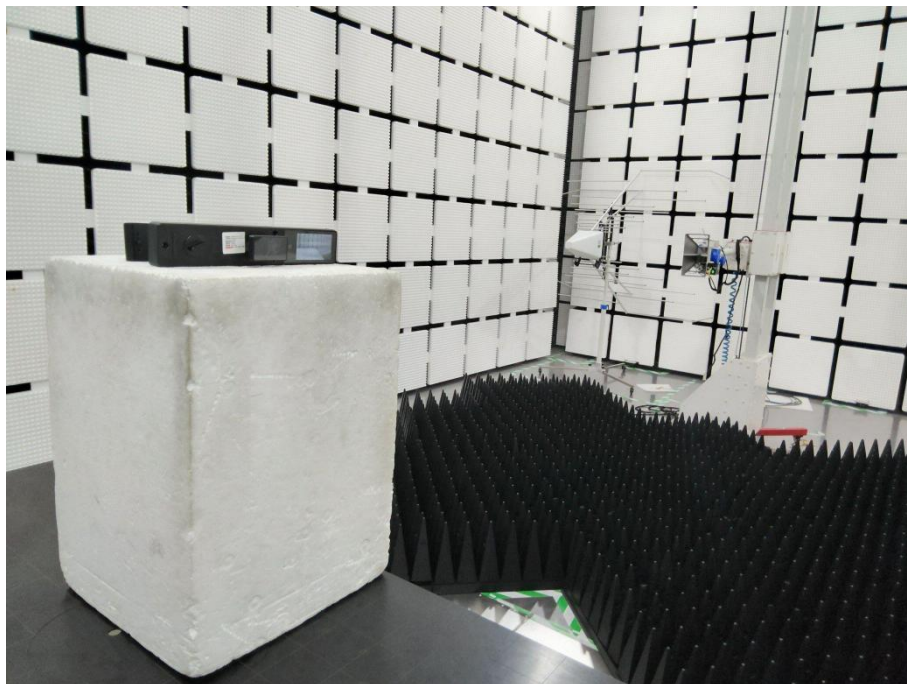
			2330	-24	≥ -34	CW	0.18	10	PASS
			2360	-30	≥ -34	CW	0.92	10	PASS
			2524	-30	≥ -34	CW	1.00	10	PASS
			2584	-31	≥ -34	CW	1.95	10	PASS
			2674	-21	≥ -34	CW	0.30	10	PASS

7. TEST SETUP PHOTOS

Transmitter unwanted emissions in the spurious domain (30MHz to 1GHz)
Receiver spurious emissions (30MHz to 1GHz)

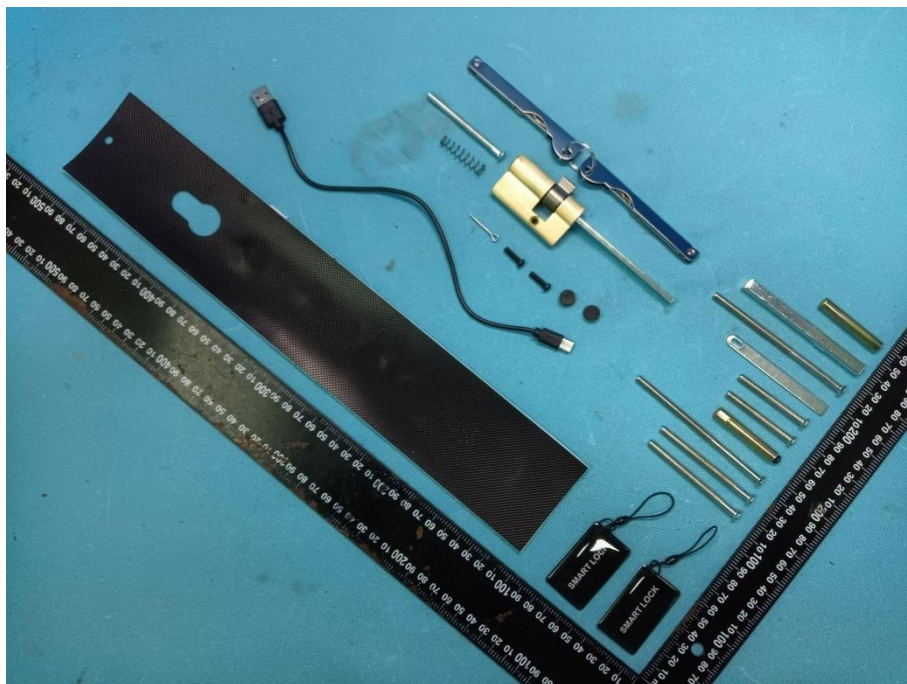
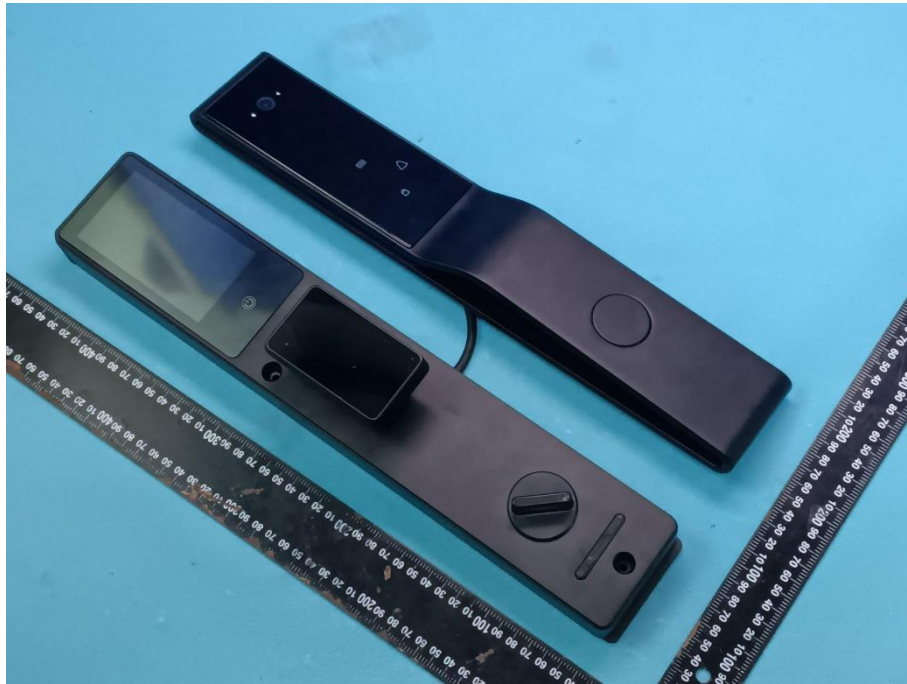


Transmitter unwanted emissions in the spurious domain (above 1GHz)
Receiver spurious emissions (above 1GHz)



8. EXTERNAL AND INTERNAL PHOTOS

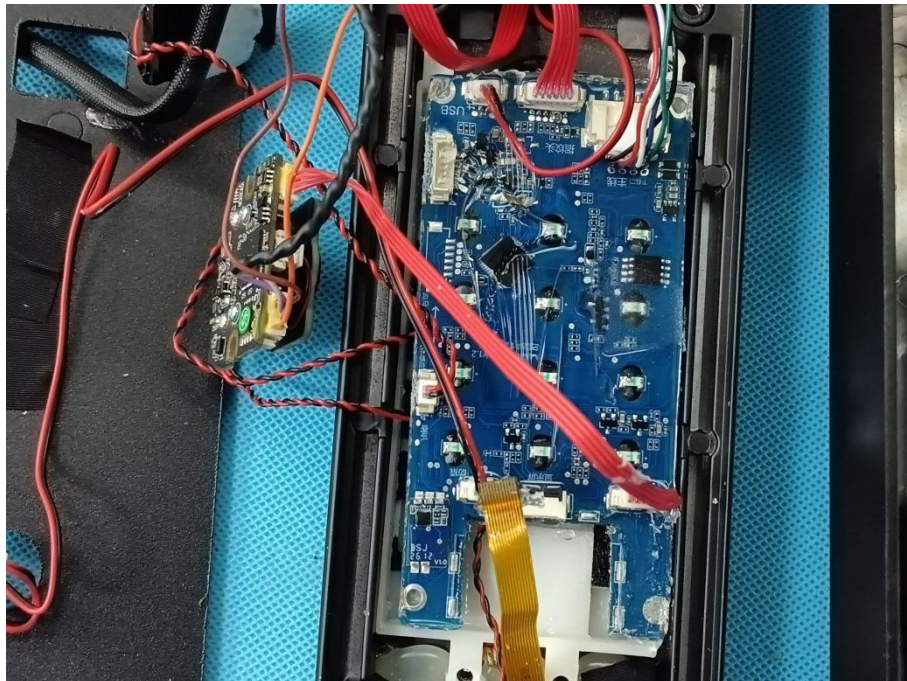
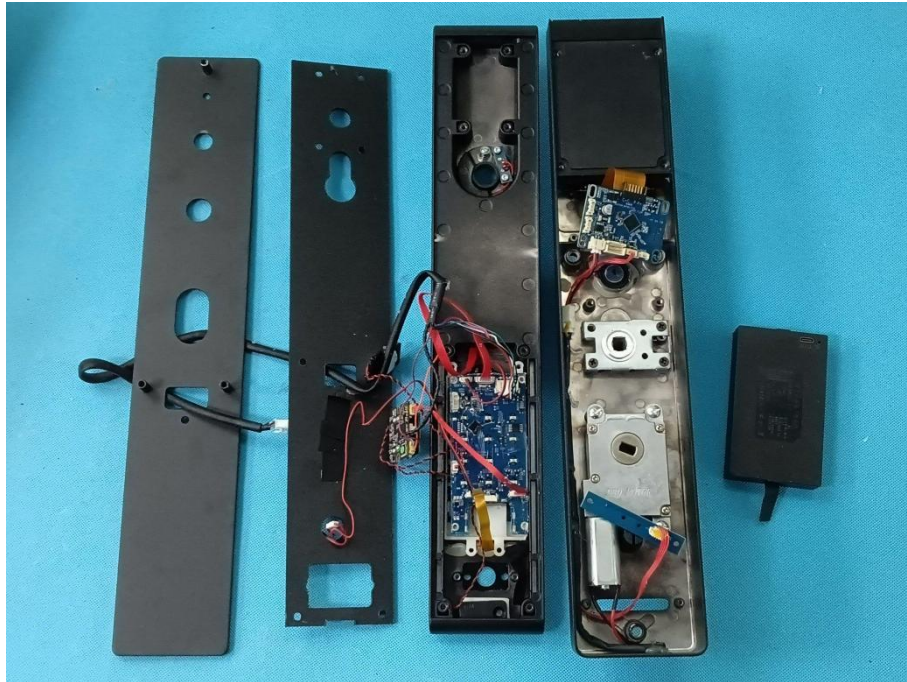
8.1. External Photos

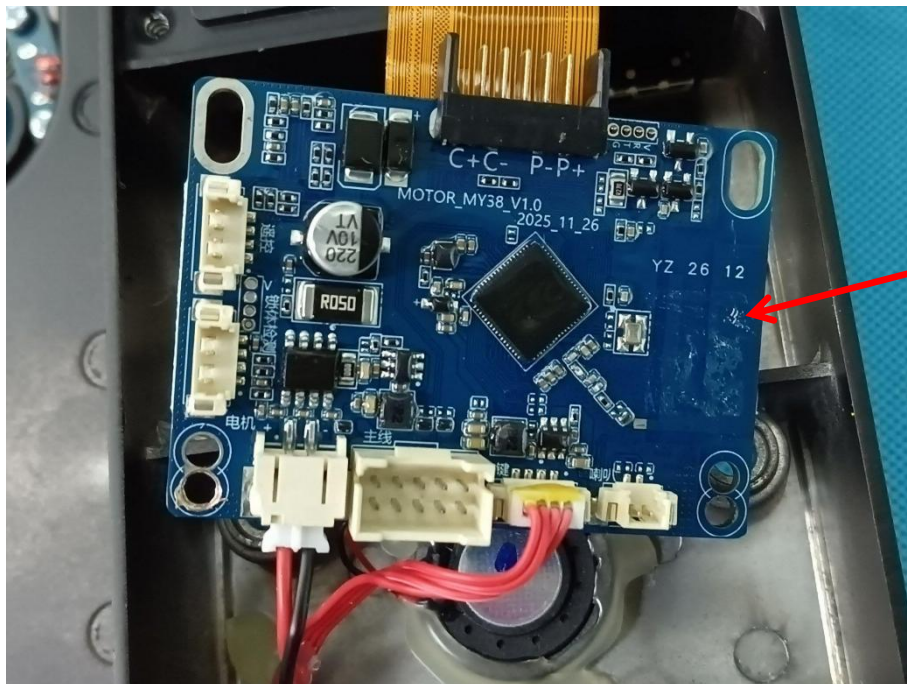
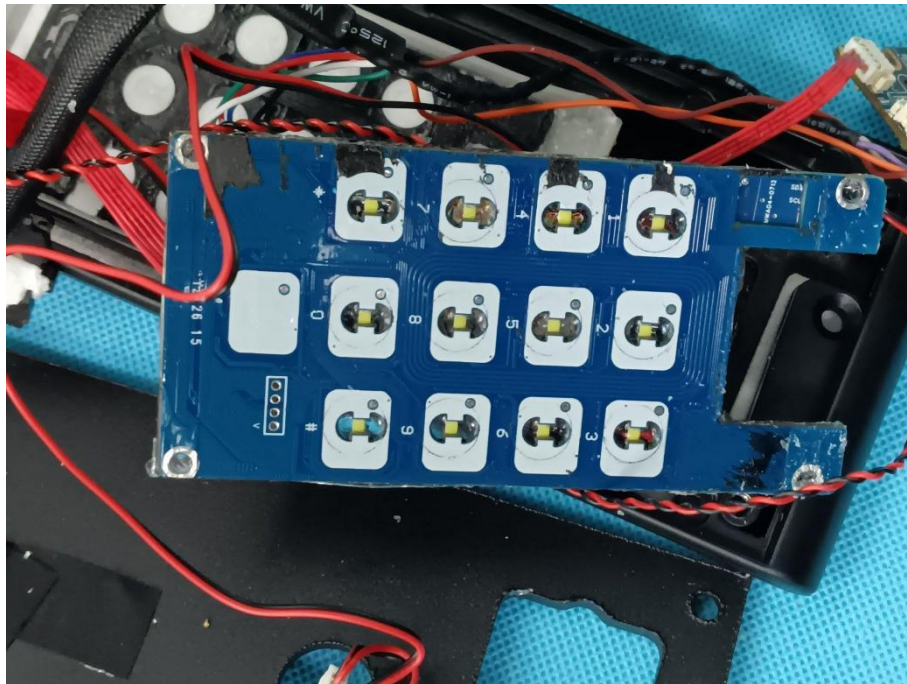




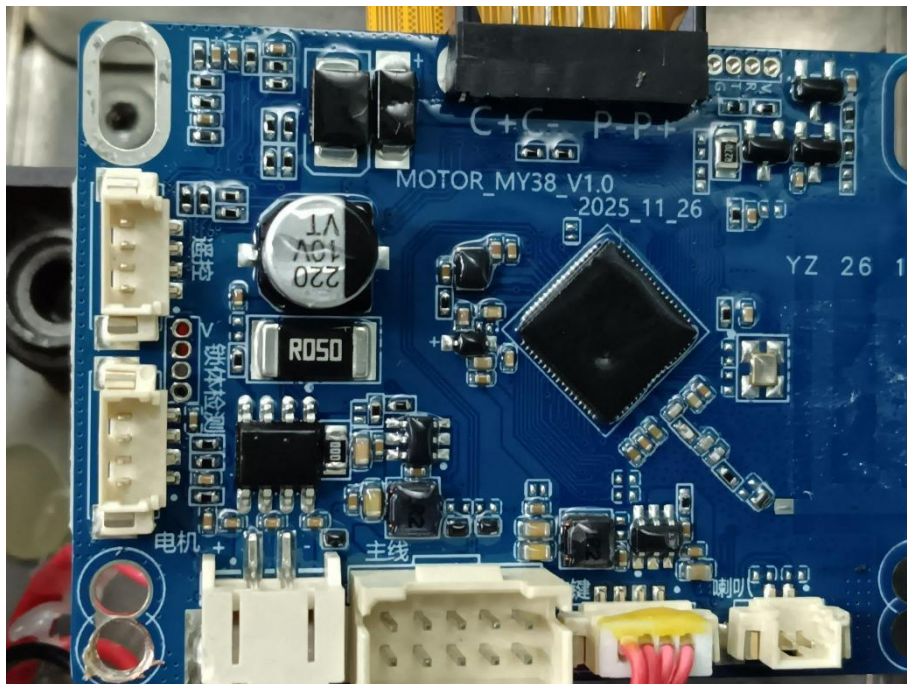
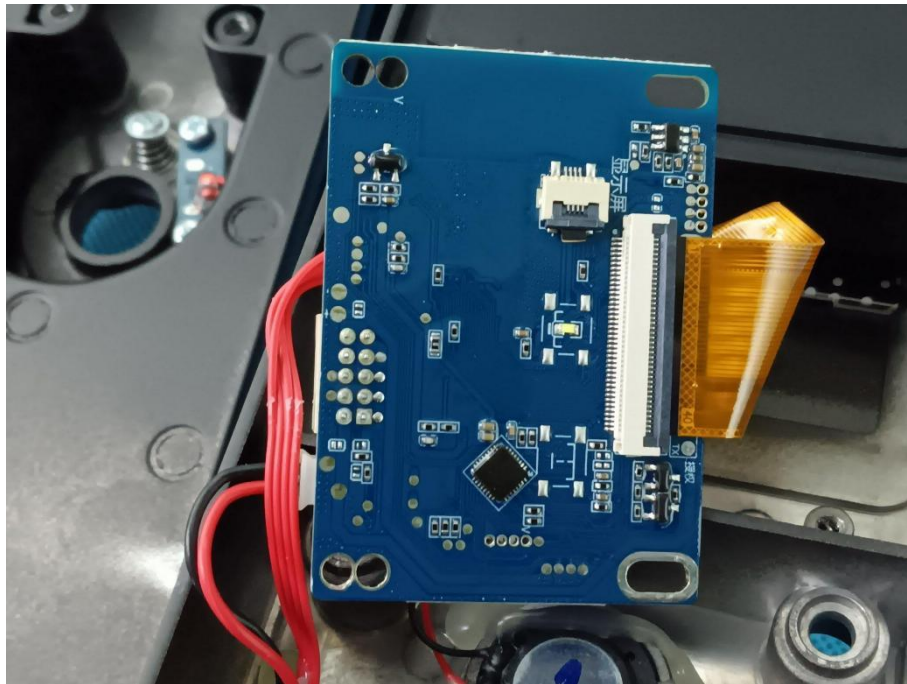


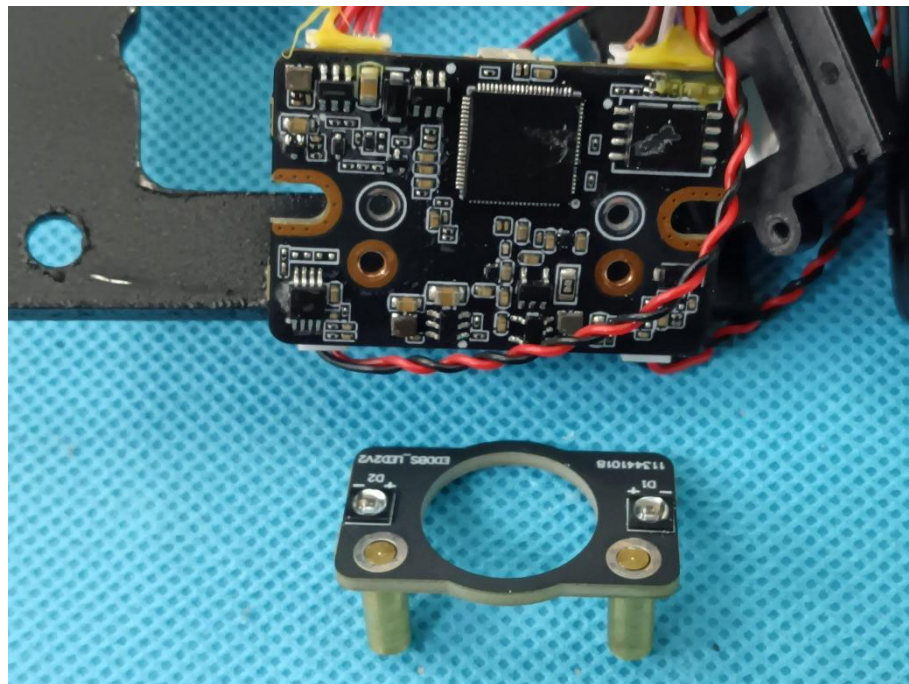
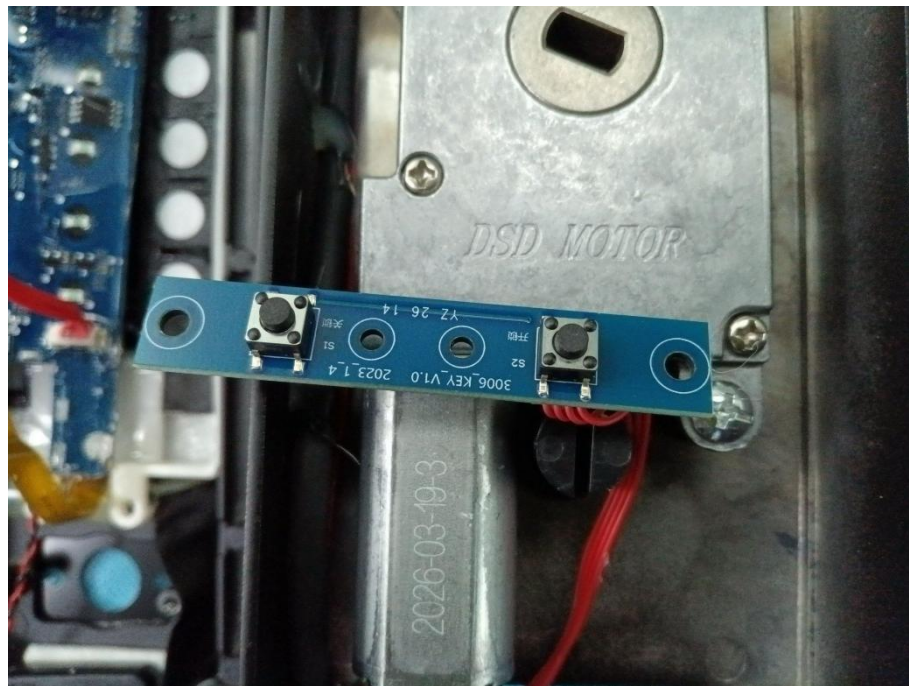
8.2. Internal Photos

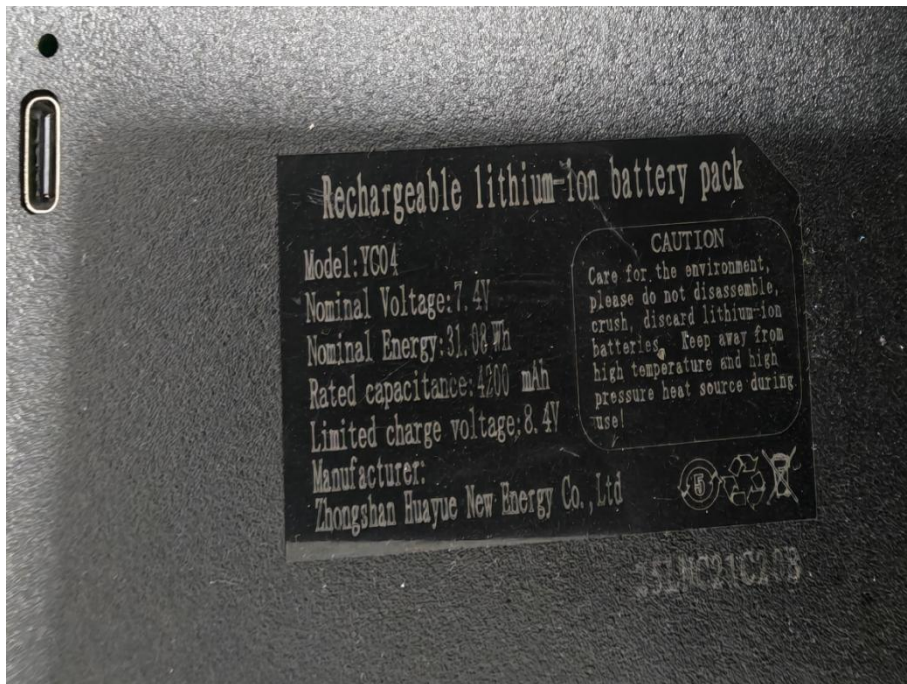
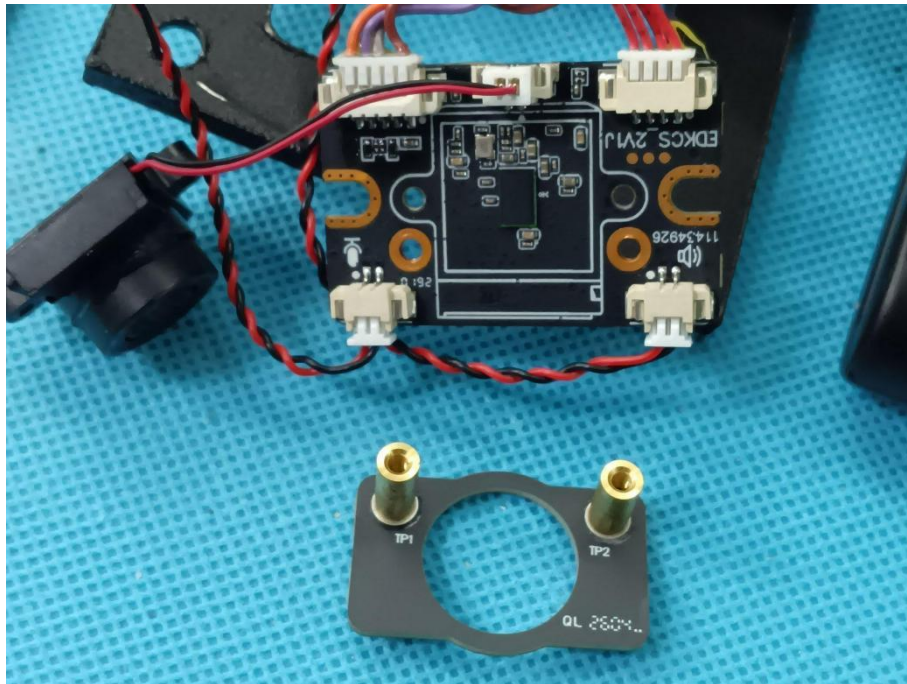




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-----End of the report-----