RF Test Report

For

Applicant Name:	**Shenzhen jinnaibo Electronic Co., Ltd.**
Address:	Floor 3, building L, Shasi hi tech park, Shasi Community, Shajing street, Baoan Shenzhen
EUT Name:	Navigator
Brand Name:	N/A
Model Number:	J701
Series Model Number:	Refer to section 2

Issued By

Company Name:	**BTF Testing Lab (Shenzhen) Co., Ltd.**
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Report Number:	BTF240704R00102
Test Standards:	47 CFR Part 15 Subpart C Section 15.239
FCC ID:	2BBNO-J701
Test Conclusion:	Pass
Test Date:	2024-07-05 to 2024-07-18
Date of Issue:	2024-07-18

Prepared By: Aria Zhang

Aria Zhang / Project Engineer

Date: 2024-07-18

Approved By: Ryan.C

Ryan.CJ / EMC Manager

Date: 2024-07-18

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Revision History		
Version	Issue Date	Revisions Content
R_V0	2024-07-18	Original
Note:	*Once the revision has been made, then previous versions reports are invalid.*	

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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Description:	All measurement facilities used to collect the measurement data are located at F101,201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
FCC Registration Number:	518915
Designation Number:	CN1330

1.3 Laboratory Condition

Ambient Temperature:	20℃ to 25℃
Ambient Relative Humidity:	45% to 55%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

(1) The test report reference to the report template version v0.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.

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(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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2. Product Information

2.1 Application Information

Company Name:	Shenzhen jinnaibo Electronic Co., Ltd.
Address:	Floor 3, building L, Shasi hi tech park, Shasi Community, Shajing street, Baoan Shenzhen

2.2 Manufacturer Information

Company Name:	Shenzhen jinnaibo Electronic Co., Ltd.
Address:	Floor 3, building L, Shasi hi tech park, Shasi Community, Shajing street, Baoan Shenzhen

2.3 Factory Information

Company Name:	Shenzhen jinnaibo Electronic Co., Ltd.
Address:	Floor 3, building L, Shasi hi tech park, Shasi Community, Shajing street, Baoan Shenzhen

2.4 General Description of Equipment under Test (EUT)

EUT name	Navigator
Under Test model name	J701
Series model name	A1, A2, A3, A5, A6, A7, A8, A9, A10, A11, A12, A13, A15, A16, A17,A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, J702, J703, J704, J705, J706, J707, J708, J709, J710, J711, J712, J713, J714, J715, J716, J717, J718, J719, J720, J721, J722, J723, J724, J725, J726, J727, J728, J729, J730, J731, J732, J733, J734, J735, J736, J737, J738, J739, J740, J901, J902, J903, J904, J905, J906, J907, J908, J909, J501, J502, J503, J504, J505, J506, J507, J508, J509, D100, D200, D300, D400, D500, D600, D700, D800, D900, 2021-01FU-4-40661, N76, H701, H702, H703, H704, H705, H901, H902, H903, 504, 560, 718, X11, X12, X13, X14, X15, D7, S7, A77
Description of model name differentiation	Only the model name is different, the others are the same.
Hardware version	H1.0
Software version	S1.0

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2.5 Technical Information

Modulation Type	FM
Product Type	Low Power Communication Device Transmitter
Frequency Range	The frequency range used is 88.1 MHz – 107.9 MHz; The frequency block is 88 MHz to 108 MHz.
Number of Channel	199 (at intervals of 100 KHz)
Tested Channel	01 (88.1 MHz), 101 (98.1 MHz), 199 (107.9 MHz)
Antenna Type	Internal Antenna
Antenna Gain#	0 dBi

Note:

#: The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.

All channel was listed on the following table:

Channel	Frequency (MHz)
01	**88.1**
02	88.2
⋮	⋮
100	98.0
101	**98.1**
102	98.2
⋮	⋮
198	107.8
199	**107.9**

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3. Summary of Test Results

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart C Section 15.239	Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Summary of Test Result

No.	Description	IC Part No.	Test Result	Verdict
1	Antenna Requirement	Part 15.203	Section 5.1	Pass
2	20dB bandwidth & 99% bandwidth	Part 15.239(a)	ANNEX A.1	Pass
3	Field Strength of the Fundamental and Band Edge	Part 15.239(b)	ANNEX A.2	Pass
4	Radiated Spurious Emission	Part 15.209 Part 15.239(c)	ANNEX A.2	Pass

3.3 Uncertainty of Test

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2 and TR100 028-1/-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Occupied Channel Bandwidth	69 KHz
All emissions, radiated(<1GHz)	4.12 dB
All emissions, radiated(>1GHz)	4.16 dB
Temperature	0.82 °C
Humidity	4.1 %

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4. Test Configuration

4.1 Environment Condition

Environment Parameter	Selected Values During Tests			
	Temperature	Voltage	Relative Humidity	Ambient Pressure
Normal Temperature, Normal Voltage (NTNV)	20°C to 25°C	DC 3.7V from battery	30% to 60%	100 kPa to 102 kPa

4.2 Test Equipment List

Conducted Method Test					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	/	/
RF Sensor Unit	Techy	TR1029-2	/	/	/
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	/	/
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2023-11-16	2024-11-15
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2023-11-16	2024-11-15

Radiated Method Test					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2024-02-24	2025-02-23
Preamplifier	SCHWARZBECK	BBV9744	00246	/	/
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	/	/
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	/	/
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	/	/
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	/	/
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2023-11-13	2024-11-12

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EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2023-11-16	2024-11-15
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	/	/
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2024-04-22	2026-04-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2023-11-13	2024-11-12

4.3 Test Auxiliary Equipment

The EUT was tested as an independent device.

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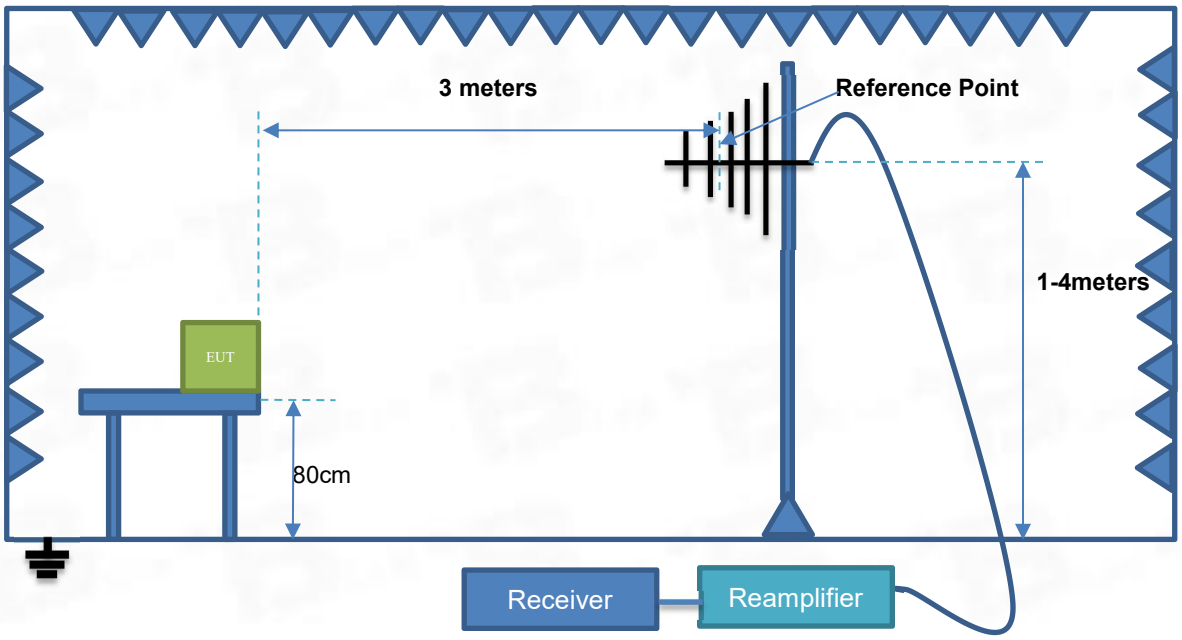
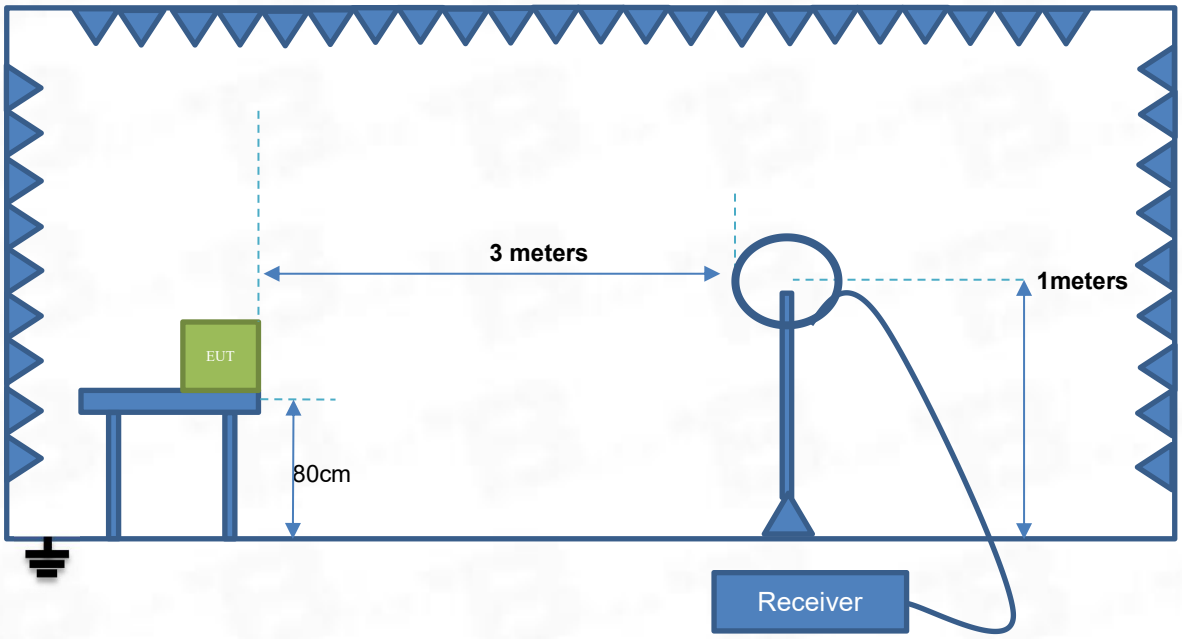
4.4 Test Setup

Test Setup 1



Radiation Test (30MHz – 1GHz)

Test Setup 2



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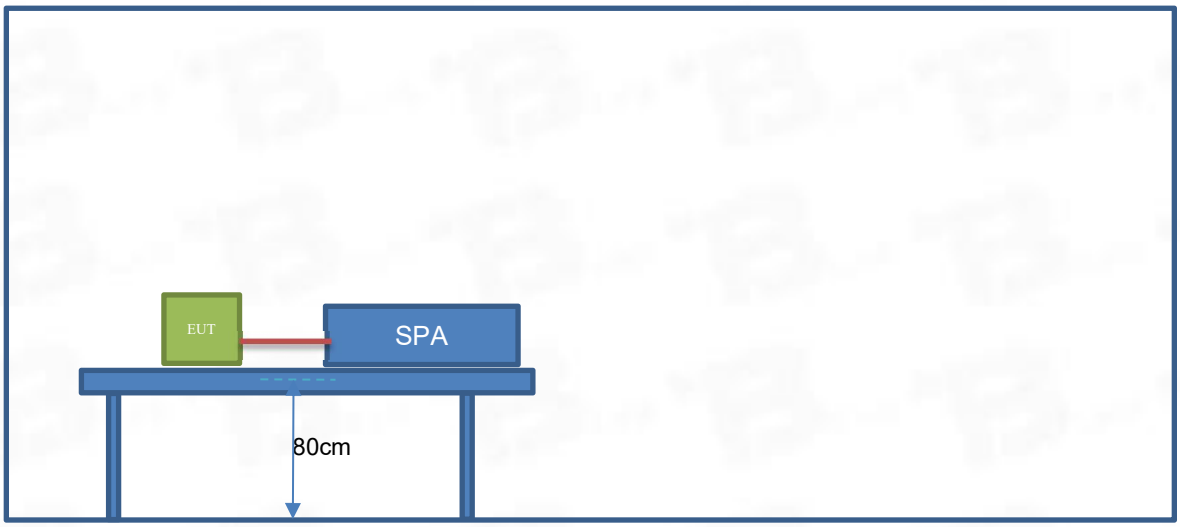
Radiation Test (9k - 30MHz)

Test Setup 3



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5. Test Items

5.1 Antenna Requirements

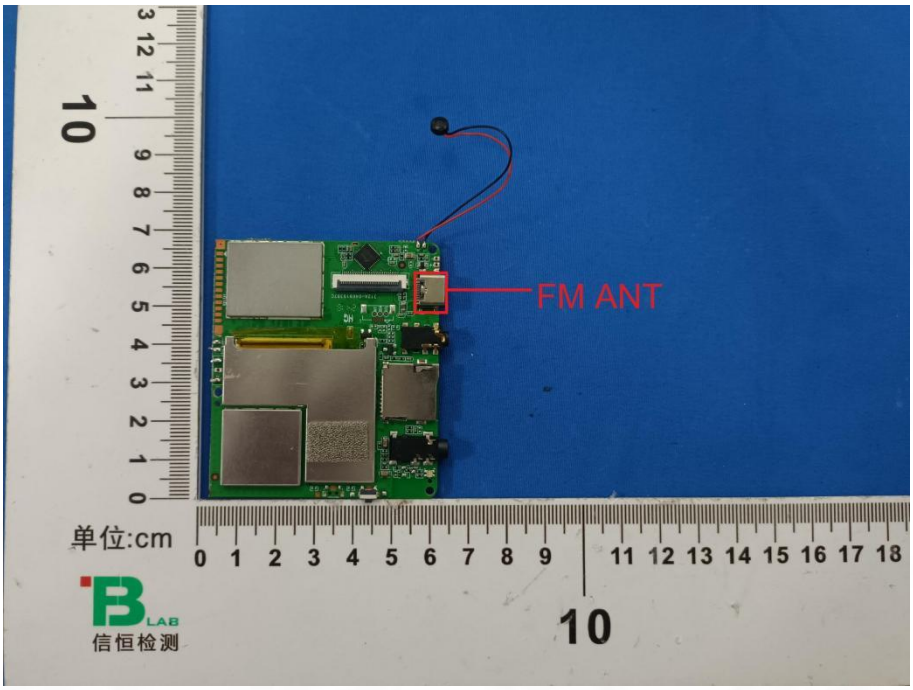
5.1.1 Relevant Standards

Part 15.203
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of 15.211, 15.213, 15.217, 15.219, 15.221, or 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

5.1.2 Antenna Anti-Replacement Construction

Protected Method	Description
The antenna is embedded in the product.	An embedded in antenna design is used.

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.



5.2 20dB bandwidth & 99% bandwidth

5.2.1 Limit

Part 15.239(a)

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

5.2.2 Test Setup

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the EUT bandwidth.

Set the RBW = 1%~5%OBW. Set VBW ≥ 3 x RBW.
Set span ≥ 3 x RBW, Sweep time = auto couple. Detector = peak.
Trace mode = max hold.

Allow trace to fully stabilize, view the transmitter waveform on the spectrum analyzer.

5.2.3 Test Result

Please refer to ANNEX A.1

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5.3 Field Strength of the Fundamental and Band Edge

5.3.1 Limit

Part 15.239(b)

The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in § 15.35 for limiting peak emissions apply.

The field strength of emissions from the intentional radiators operated under these frequency bands shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBuV/m@3m)	
88 to 108	Peak	Average
	67.96	47.96

Field strength of outside of the frequency bands limit show in below table.

Outside Frequency Band Edge	Distance Meters(dBuV/m@3m)
Below 88 MHz	40.0 (QP)
Above 108 MHz	43.5 (QP)

5.3.2 Test Setup

See section 4.4 for test setup description for setup 1. The photo of test setup please refer to ANNEX B

5.3.3 Test Procedure

(1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
(2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
(3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
(4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

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(5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
(6) Testing frequency range below 1GHz the measuring instrument use RBW=100 kHz, VBW=300 kHz with Quasi-peak detection.
(7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Average Detector for Average Values.
(8) For the actual test configuration, please see the test setup photo.

5.3.4 Test Result

Please refer to ANNEX A.2

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5.4 Radiated Spurious Emission

5.4.1 Limit

Part 15.209

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

Part 15.239(c)

The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emission limits in § 15.209.

5.4.2 Test Setup

See section 4 for test setup description for setup 1. The photo of test setup please refer to ANNEX B

5.4.3 Test Procedure

(1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.

(2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.

(3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

(4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning

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the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
(5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
(6) Testing frequency range below 1GHz the measuring instrument use RBW=100 kHz, VBW=300 kHz with Quasi-peak detection.
(7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Average Detector for Average Values.
(8) For the actual test configuration, please see the test setup photo.

5.4.4 Test Result

Please refer to ANNEX A.2

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ANNEX A Test Results

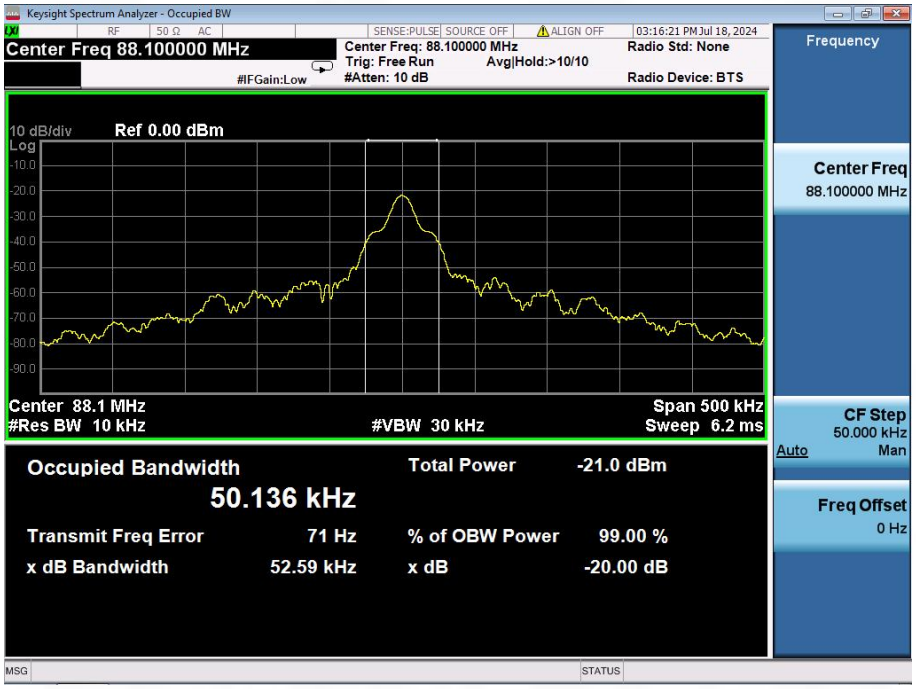
A.1 20dB bandwidth & 99% bandwidth

Test Channel	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
Lowest	52.59	200	PASS
Middle	56.52	200	PASS
Highest	52.55	200	PASS

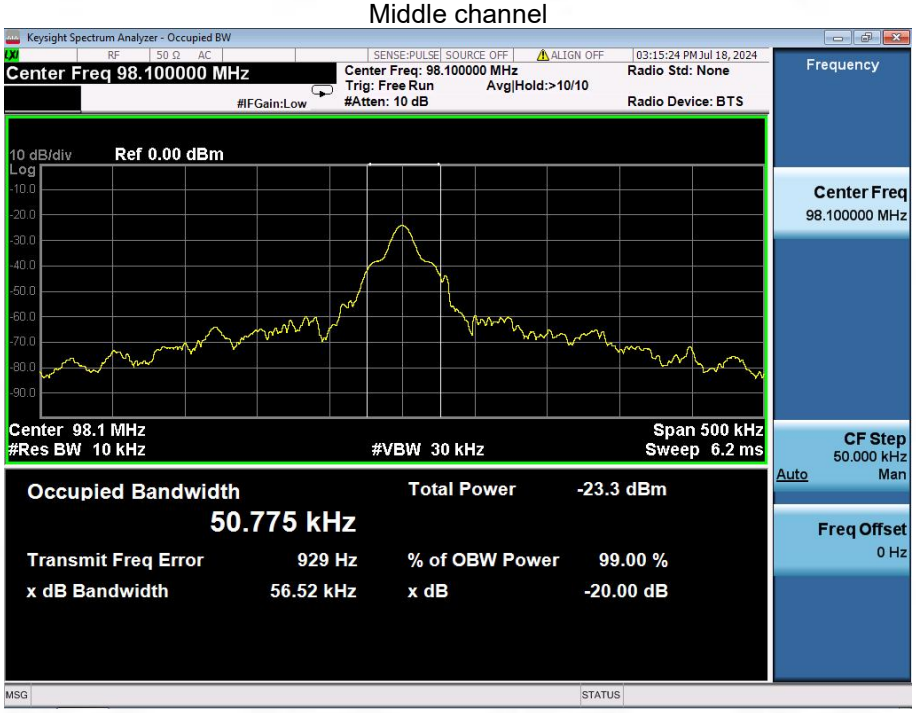
Test Channel	99% Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
Lowest	50.136	200	PASS
Middle	50.775	200	PASS
Highest	52.169	200	PASS

Test plots as follows:

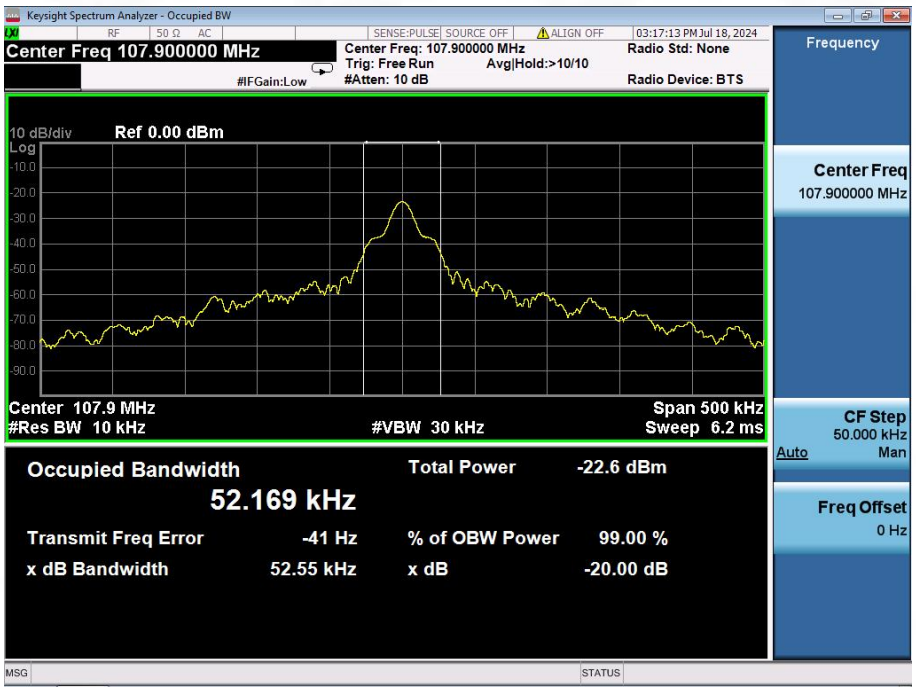
Lowest channel



Middle channel

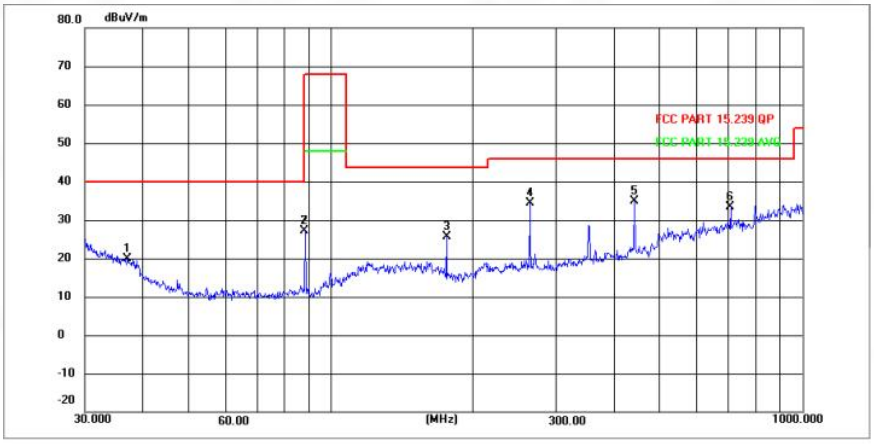


Highest channel



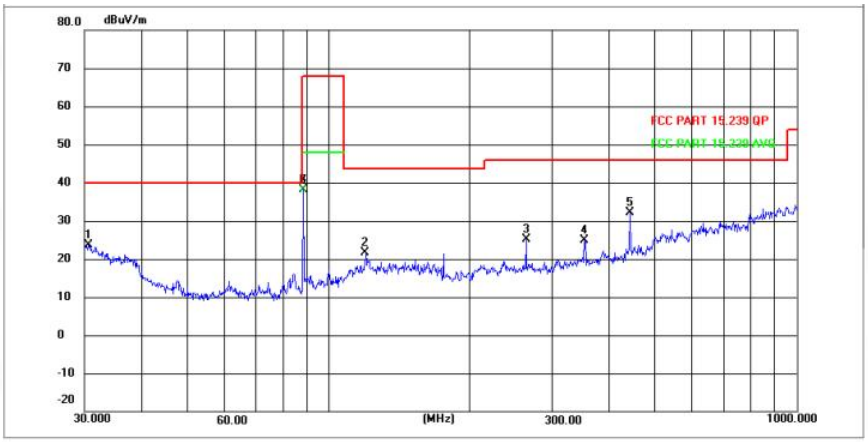
A.2 Field Strength of the Fundamental and Band Edge Radiated Spurious Emission

Test Mode 88.1MHz ANT Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	37.0248	24.15	-4.29	19.86	40.00	-20.14	peak	P
2	88.0329	49.69	-22.65	27.04	48.00	-20.96	AVG	P
3	176.2686	47.30	-21.77	25.53	43.60	-18.07	peak	P
4	264.2820	55.25	-20.93	34.32	46.00	-11.68	peak	P
5 *	440.9687	54.35	-19.49	34.86	46.00	-11.14	peak	P
6	705.4619	50.92	-17.63	33.29	46.00	-12.71	peak	P
7	88.0329	49.69	-22.65	27.04	68.00	-40.96	peak	P

Test Mode 88.1MHz ANT Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	30.6379	27.64	-3.95	23.69	40.00	-16.31	peak	P
2	120.0659	44.03	-22.29	21.74	43.60	-21.86	peak	P
3	264.2820	46.05	-20.93	25.12	46.00	-20.88	peak	P
4	352.3251	44.99	-20.21	24.78	46.00	-21.22	peak	P
5	440.9687	51.66	-19.49	32.17	46.00	-13.83	peak	P
6	88.0330	60.71	-22.65	38.06	68.00	-29.94	peak	P
7 *	88.0330	60.71	-22.65	38.06	48.00	-9.94	AVG	P

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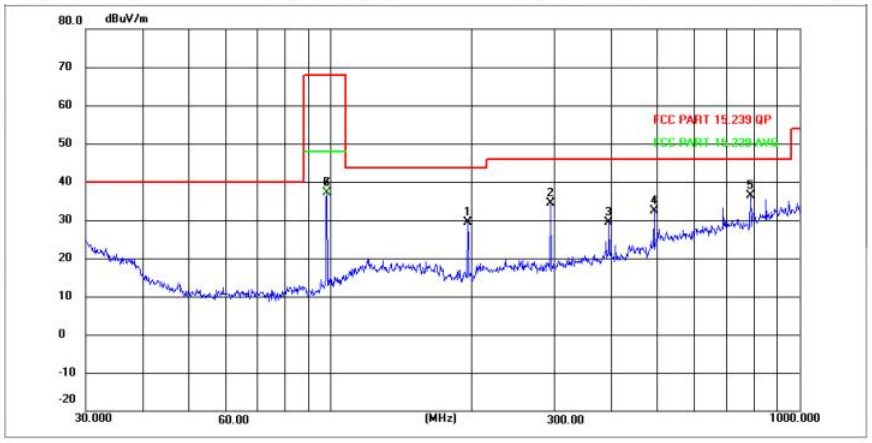
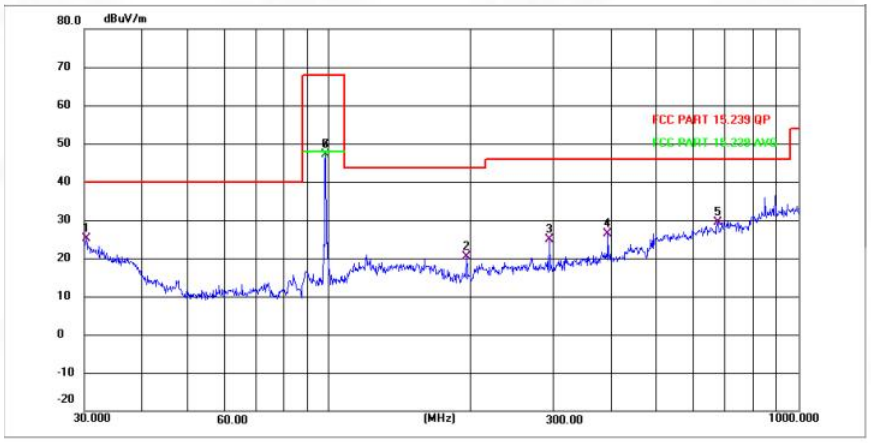
Test Mode 98.1MHz ANT Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	196.1656	50.91	-21.59	29.32	43.60	-14.28	peak	P
2	294.6298	54.95	-20.67	34.28	46.00	-11.72	peak	P
3	392.7831	49.35	-19.89	29.46	46.00	-16.54	peak	P
4	490.7447	51.48	-19.06	32.42	46.00	-13.58	peak	P
5 *	785.0935	54.32	-17.83	36.49	46.00	-9.51	peak	P
6	98.1418	59.74	-22.50	37.24	68.00	-30.76	peak	P
7	98.1418	59.74	-22.50	37.24	48.00	-10.76	AVG	P

Test Mode 98.1MHz ANT Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	30.3705	28.70	-3.68	25.02	40.00	-14.98	QP	P
2	196.1656	42.08	-21.59	20.49	43.60	-23.11	QP	P
3	294.6298	45.49	-20.67	24.82	46.00	-21.18	QP	P
4	392.7831	46.21	-19.89	26.32	46.00	-19.68	QP	P
5	674.0252	47.24	-17.80	29.44	46.00	-16.56	QP	P
6	98.1418	69.54	-22.50	47.04	68.00	-20.96	peak	P
7 *	98.1418	69.54	-22.50	47.04	48.00	-0.96	AVG	P

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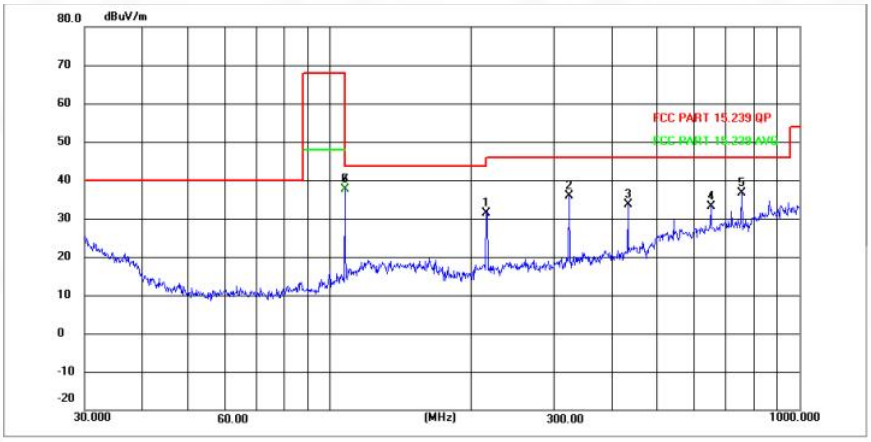
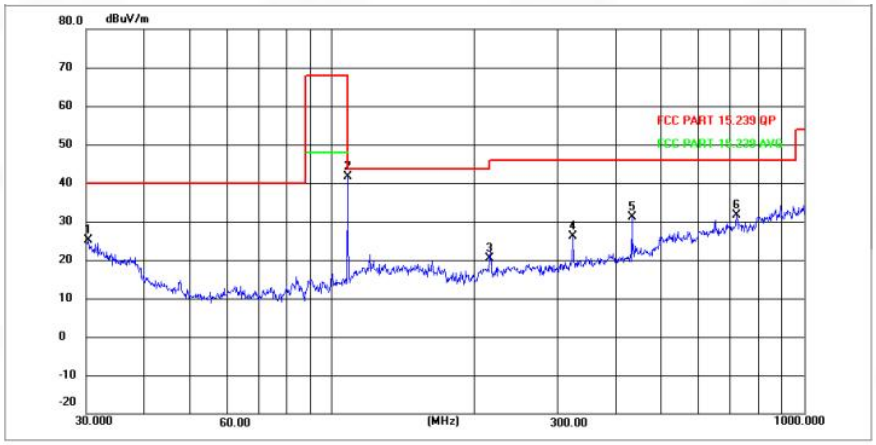
Test Mode 107.9MHz ANT Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	215.6455	52.70	-21.38	31.32	43.60	-12.28	peak	P
2	323.8877	56.38	-20.43	35.95	46.00	-10.05	peak	P
3	431.7880	53.07	-19.56	33.51	46.00	-12.49	peak	P
4	648.5216	51.17	-17.98	33.19	46.00	-12.81	peak	P
5 *	755.3873	54.31	-17.77	36.54	46.00	-9.46	peak	P
6	107.8876	60.07	-22.39	37.68	68.00	-30.32	peak	P
7	107.8876	60.07	-22.39	37.68	48.00	-10.32	AVG	P

Test Mode 107.9MHz ANT Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	30.3173	28.86	-3.63	25.23	40.00	-14.77	peak	P
2 *	107.8877	63.97	-22.39	41.58	48.00	-6.42	AVG	P
3	215.6456	41.64	-21.38	20.26	43.60	-23.34	peak	P
4	323.8877	46.61	-20.43	26.18	46.00	-19.82	peak	P
5	431.7880	50.77	-19.56	31.21	46.00	-14.79	peak	P
6	721.7259	49.20	-17.67	31.53	46.00	-14.47	peak	P
7	107.8877	63.97	-22.39	41.58	68.00	-26.42	peak	P

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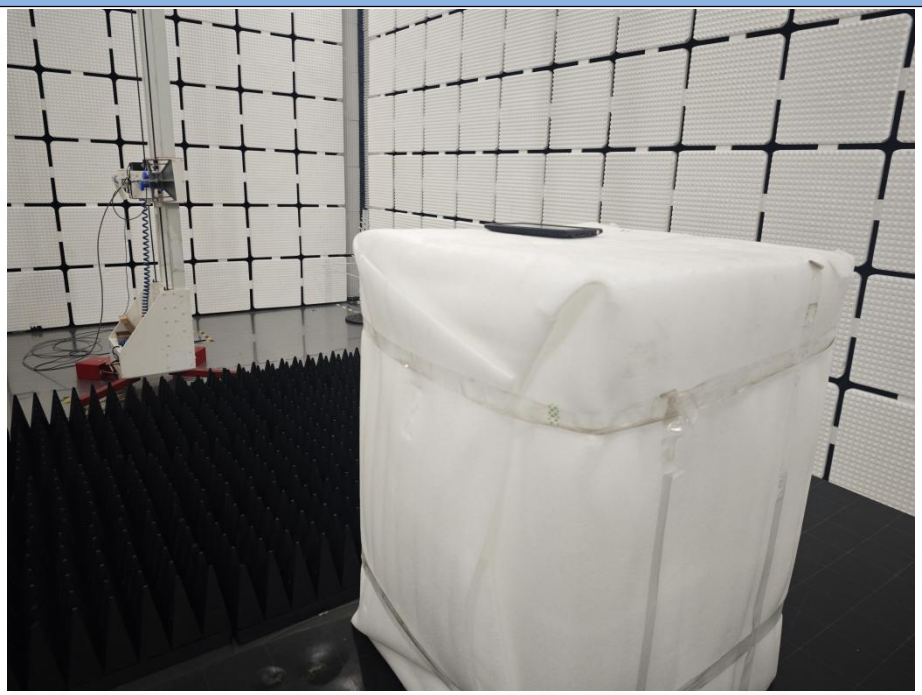
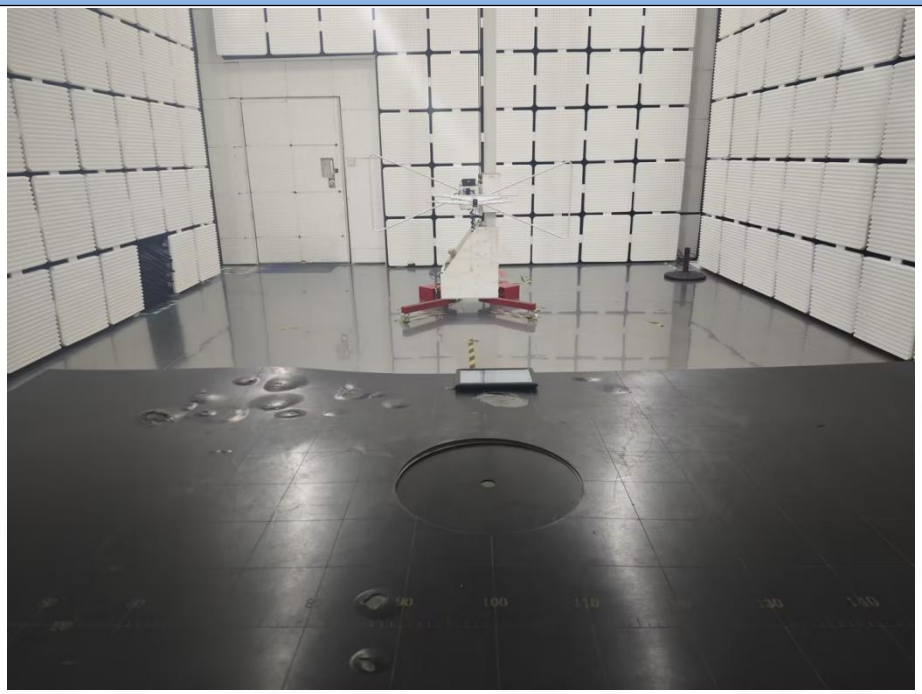
ANNEX B TEST SETUP PHOTOS

above 1GHz


below 1GHz


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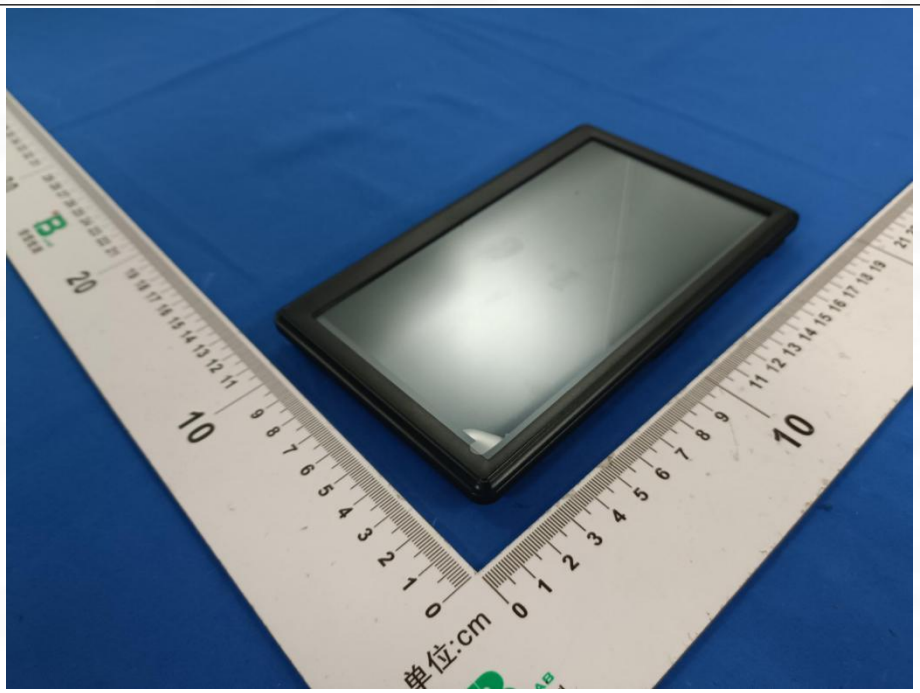
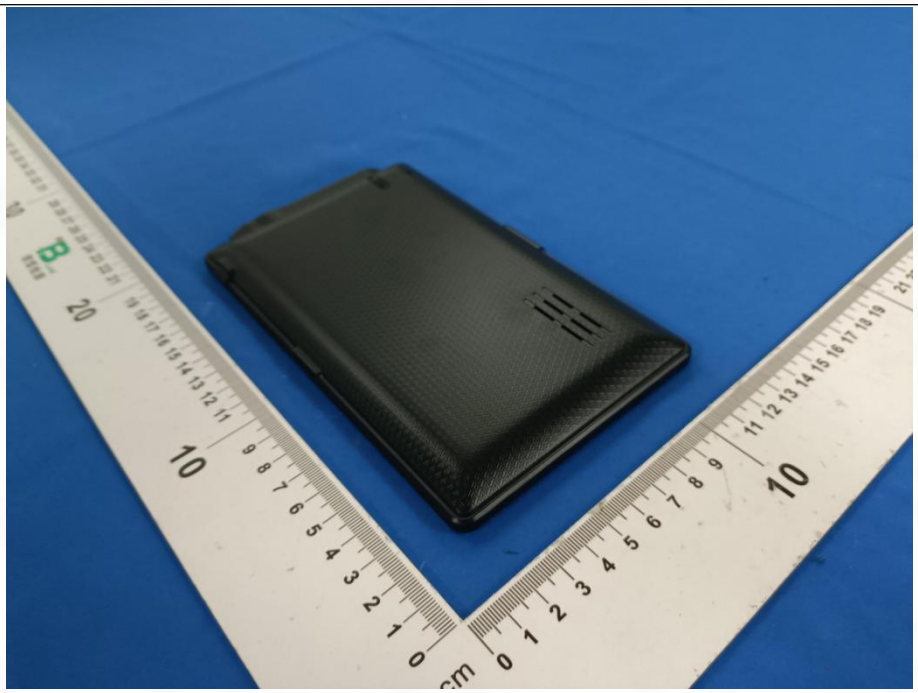
ANNEX C EUT EXTERNAL PHOTOS

External





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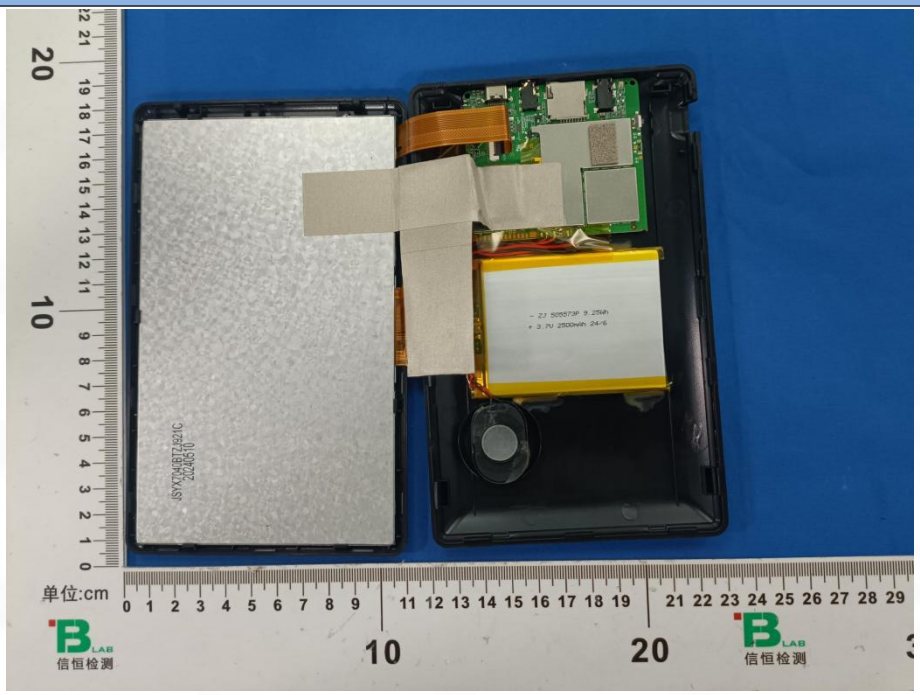
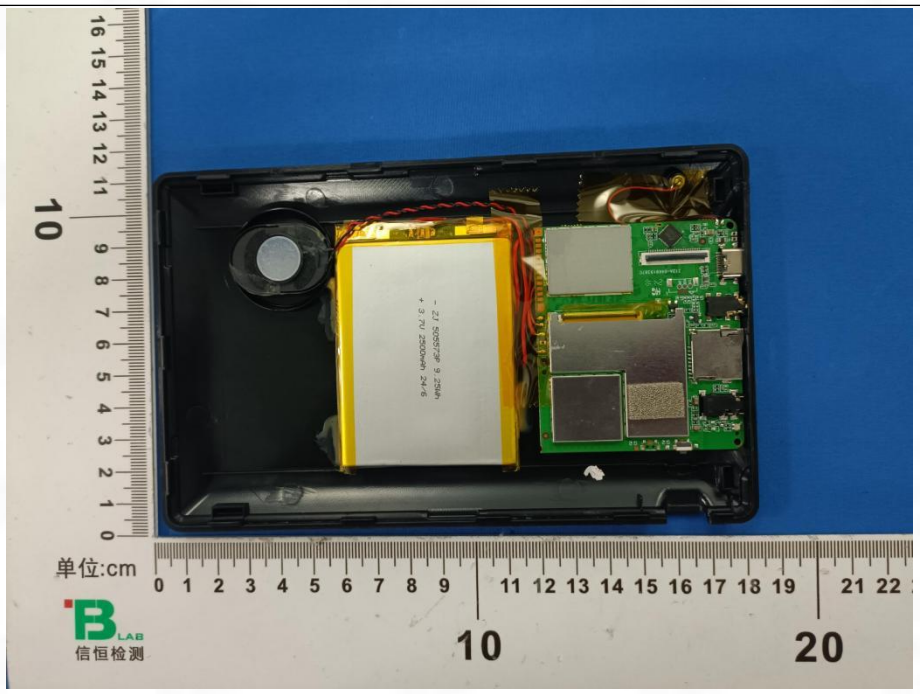
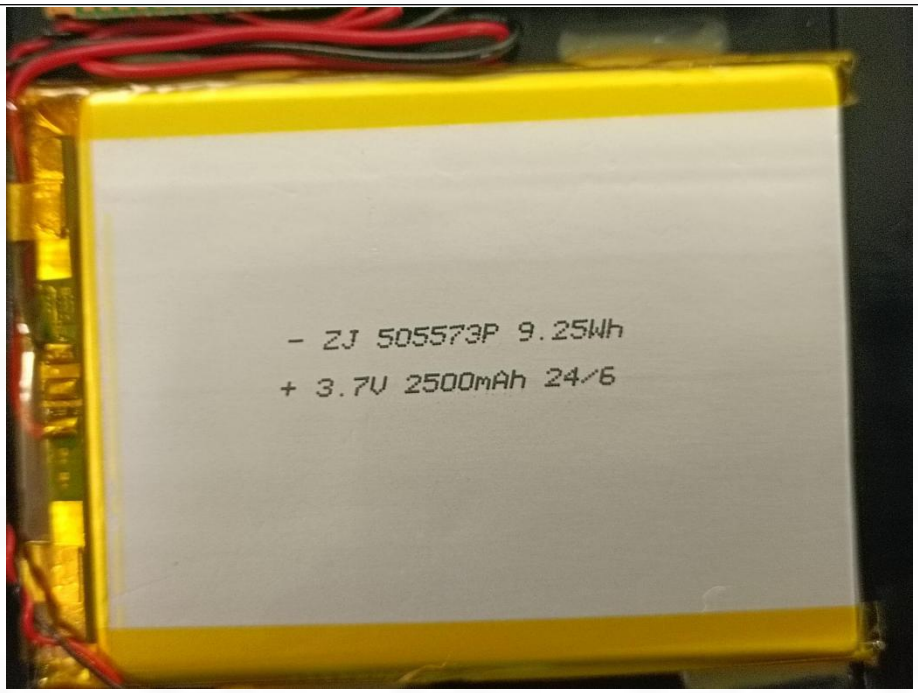
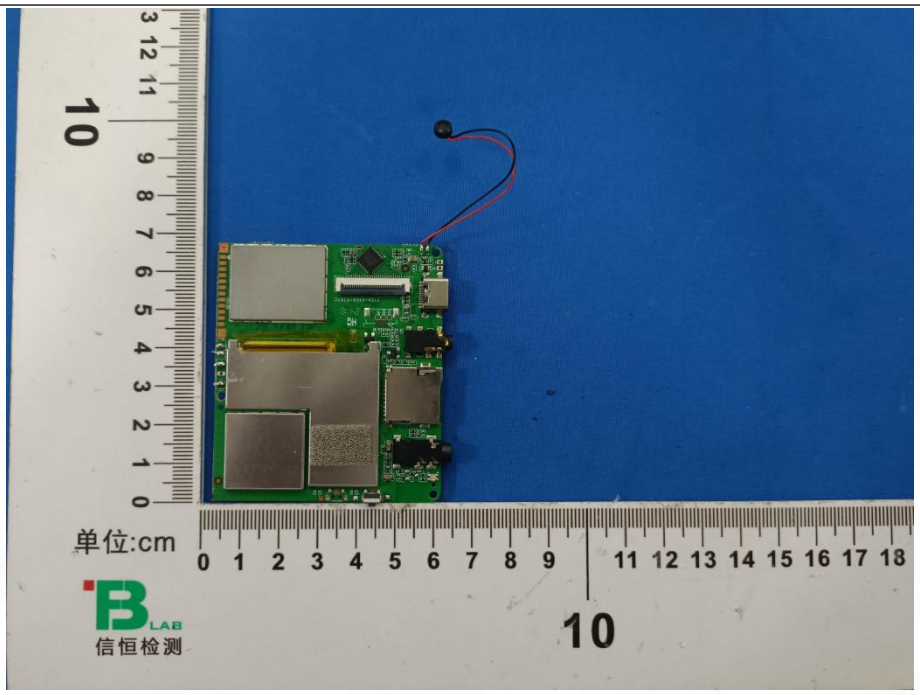
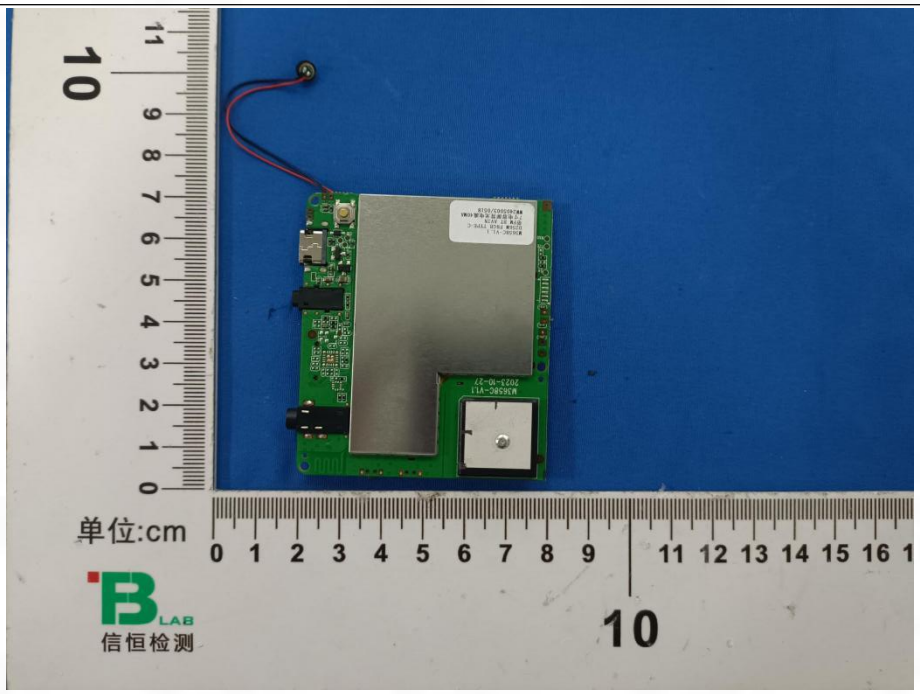
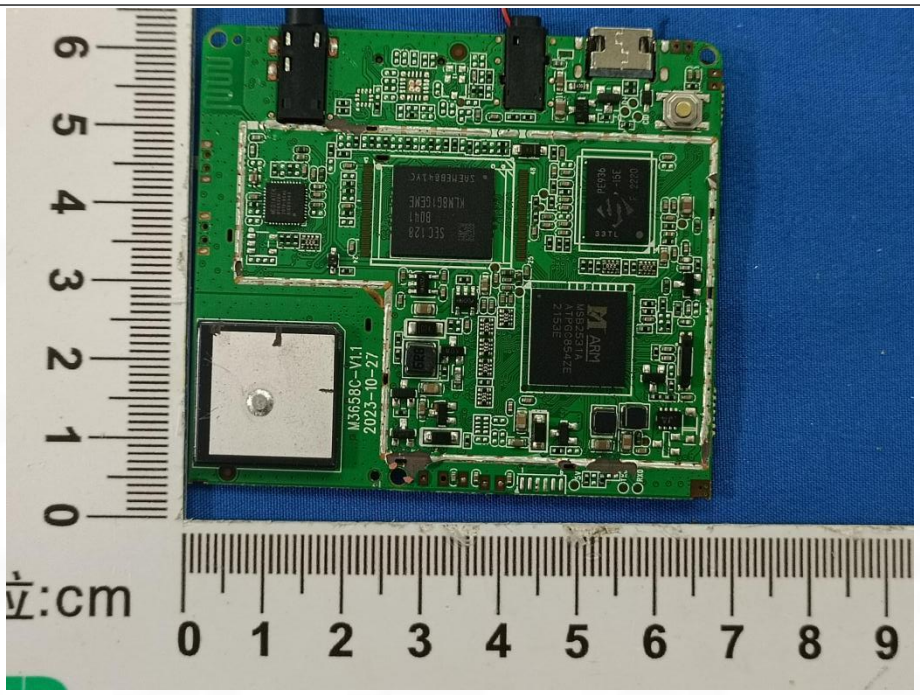
Internal


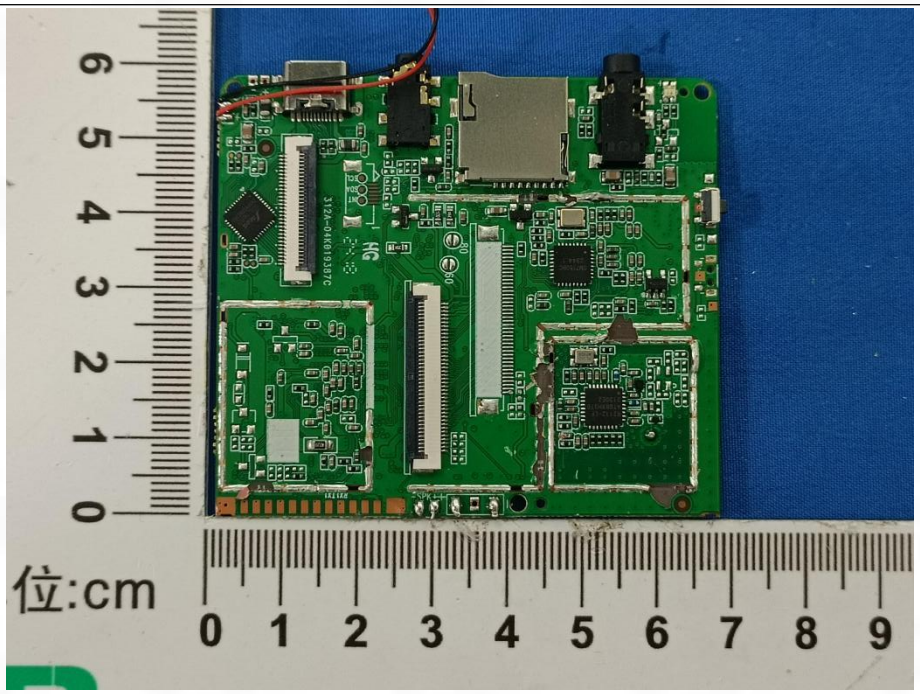



- ZJ 505573P 9.25Wh
+ 3.7V 2500mAh 24/6


单位:cm
信恒检测


单位:cm
信恒检测


M3658C-V1.1
2023-10-27


位:cm
0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6

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--END OF REPORT--