



FCC TEST REPORT

For

Jerryken Intelligent Technology(Shanghai) Co. Ltd.

GS WALLET

Test Model: GSHQ01

Prepared for

: Jerryken Intelligent Technology(Shanghai) Co. Ltd.

Address

: Room 1287, Zone B, 5th Floor, Building 1, No.668
Shangda Road, Baoshan District, Shanghai

Prepared by

: Shenzhen LCS Compliance Testing Laboratory Ltd.
Room 101, 201, Building A and Room 301, Building C,

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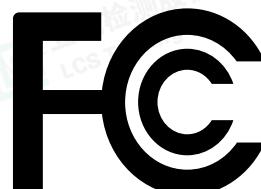
Date of receipt of test sample : July 24, 2024

Number of tested samples : 1

Serial number : Prototype

Date of Test : July 24, 2024 to July 29, 2024

Date of Report : July 30, 2024



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TEST REPORT	
Report No.	: LCSA05154062E
Date of Issue	: July 30, 2024
Testing Laboratory Name	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Testing Location/ Procedure	: Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
Applicant's Name	: Jerryken Intelligent Technology(Shanghai) Co. Ltd.
Address	: Room 1287, Zone B, 5th Floor, Building 1, No.668 Shangda Road, BaoshanDistrict, Shanghai
Test Specification	
Standard	: FCC 47 CFR Part 15, Subpart B ANSI C63.4-2014
Test Report Form No.	: TRF-4-E-010 A/0
TRF Originator	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF	: Dated 2011-03
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Test Item Description	: GS WALLET
Trade Mark	: N/A
Test Model	: GSHQ01
Result	: Positive

Compiled by:

Emma wang / File Administrator

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang / Manager



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TEST REPORT

Test Report No.: LCSA05154062E	<u>July 30, 2024</u> Date of issue
---------------------------------------	---------------------------------------

Test Model.....	: GSHQ01
EUT	: GS WALLET
Applicant	: Jerryken Intelligent Technology(Shanghai) Co. Ltd.
Address	: Room 1287, Zone B, 5th Floor, Building 1, No.668 Shangda Road, BaoshanDistrict, Shanghai
Telephone	: /
Fax	: /
Manufacturer	: Jerryken Intelligent Technology(Shanghai) Co. Ltd.
Address	: Room 1287, Zone B, 5th Floor, Building 1, No.668 Shangda Road, BaoshanDistrict, Shanghai
Telephone	: /
Fax	: /
Factory.....	: Shenzhen Xinwangpai Technology Development Co., Ltd
Address	: 1st and 3rd floors, Building A and B, No. 90 Nanpu Road, Shajing Street, Bao'an District, Shenzhen
Telephone	: /
Fax	: /

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	July 30, 2024	Initial Issue	/



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1. SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

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

Description of Test Item	Standard	Limits	Result
Conducted emissions on AC mains	FCC 47 CFR Part 15, Subpart B ANSI C63.4-2014	15.107, Class B	Pass
Radiated emissions (Below 1GHz)	FCC 47 CFR Part 15, Subpart B ANSI C63.4-2014	15.109, Class B	Pass
Radiated emissions (Above 1GHz)	FCC 47 CFR Part 15, Subpart B ANSI C63.4-2014	15.109, Class B	Pass



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1.2 Description of Test Modes

No	Title	Description
TM1	Charging+ Working(DC 5V From Adapter)	Record
TM2	Working(DC 3.7V)	Record



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2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT : GS WALLET
Test Model : GSHQ01
Power Supply : Battery: 3.7 V
Highest Internal Frequency : Input: 5V
Classification of Equipment : 500-1000MHz
Class B

Highest internal frequency (Fx)	Highest measured frequency
$F_x \leq 1.705\text{MHz}$	30MHz
$1.705\text{MHz} < F_x \leq 108\text{MHz}$	1GHz
$108\text{MHz} < F_x \leq 500\text{MHz}$	2GHz
$500\text{MHz} < F_x \leq 1000\text{MHz}$	5GHz
$F_x > 1\text{GHz}$	5 \times F_x up to a maximum of 40GHz

2.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
/	Adapter	/	/	/

2.3 Description of Test Facility

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

2.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emission (150kHz to 30MHz)	$\pm 2.35\text{ dB}$
Radiated Emission (30MHz to 1000MHz)	$\pm 3.48\text{ dB}$
Radiated Emission (above 1000MHz)	$\pm 3.90\text{ dB}$

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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3. MEASURING DEVICES AND TEST EQUIPMENT

Conducted emissions on AC mains

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	Farad	EZ	/	/	/
Artificial Mains	R&S	ENV216	101288	2024-06-06	2025-06-05
Pulse Limiter	R&S	ESH3-Z2	102750-NB	2023-08-15	2024-08-14
EMI Test Receiver	R&S	ESR3	102312	2024-03-12	2025-03-11

Radiated emissions (Below 1GHz) (Above 1GHz)

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	AUDIX	E3	/	N/A	N/A
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
EMI Test Receiver	R&S	ESR3	102311	2023-08-15	2024-08-14
Broadband Preamplifier	/	BP-01M18G	P190501	2024-06-06	2025-06-05
EMI Test Receiver	R&S	ESCI7	101173	2023-10-25	2024-10-24
By-log Antenna	SchwarzZBECK	VULB9163	01428	2023-09-05	2024-09-04
EMI Test Software	Farad	EZ	/	N/A	N/A
MXA Signal Analyzer	Agilent	N9020A	MY53290398	2024-06-06	2025-06-05



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4. EMISSION TEST RESULTS (EMI)

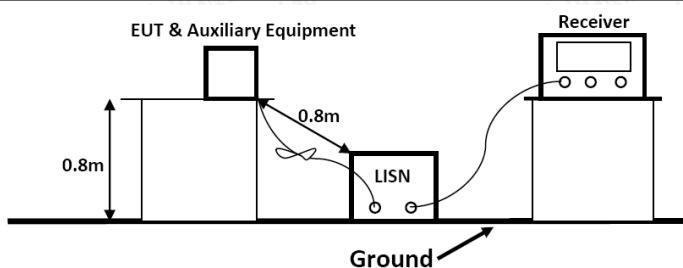
4.1 Conducted emissions on AC mains

Test Requirement:	15.107, Class B		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
*Decreases with the logarithm of the frequency.			
Test Method:	ANSI C63.4-2014		
Procedure:	An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: Level= Read Level+ Cable Loss+ LISN Factor		

4.1.1 E.U.T. Operation:

Operating Environment:			
Temperature:	22.7°C	Humidity:	53.7 %
Pre test mode:	TM1		
Final test mode:	TM1		

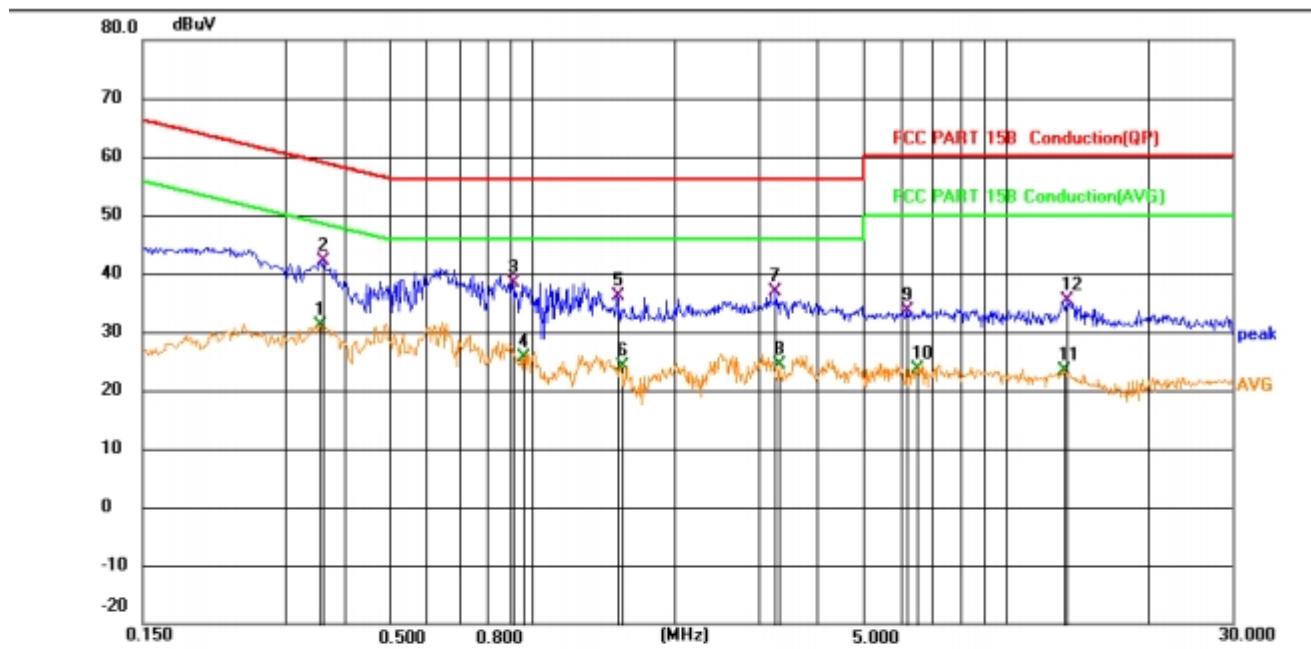
4.1.2 Test Setup Diagram:





4.1.3 Test Data:

TM1 / Line: Line

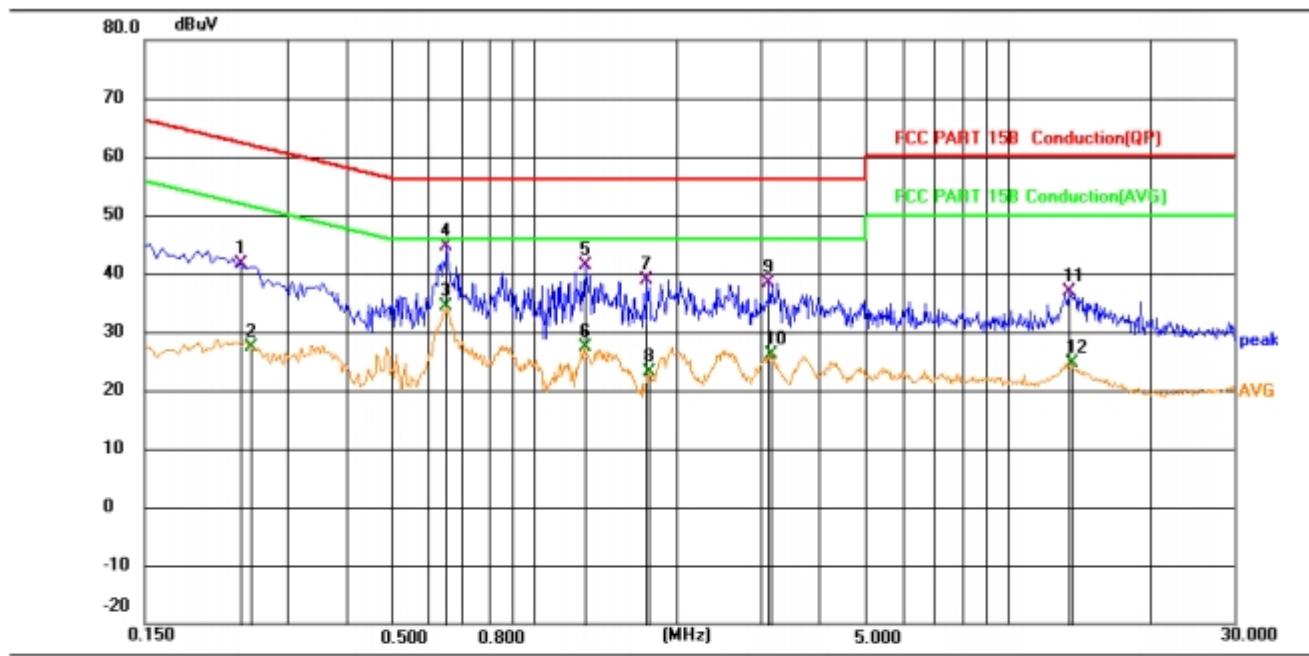


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.3571	9.83	21.25	31.08	48.80	-17.72	AVG	
2 *		0.3616	20.81	21.25	42.06	58.69	-16.63	QP	
3		0.9061	16.73	21.57	38.30	56.00	-17.70	QP	
4		0.9556	3.99	21.65	25.64	46.00	-20.36	AVG	
5		1.5091	14.17	21.91	36.08	56.00	-19.92	QP	
6		1.5361	2.24	21.92	24.16	46.00	-21.84	AVG	
7		3.2640	14.67	22.12	36.79	56.00	-19.21	QP	
8		3.3136	2.35	22.12	24.47	46.00	-21.53	AVG	
9		6.1891	11.81	21.89	33.70	60.00	-26.30	QP	
10		6.5131	1.68	21.91	23.59	50.00	-26.41	AVG	
11		13.3036	0.84	22.61	23.45	50.00	-26.55	AVG	
12		13.4296	12.74	22.61	35.35	60.00	-24.65	QP	





TM1 / Line: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.2401	20.39	21.26	41.65	62.09	-20.44	QP
2		0.2507	6.21	21.26	27.47	51.73	-24.26	AVG
3		0.6495	12.97	21.29	34.26	46.00	-11.74	AVG
4 *		0.6540	23.25	21.30	44.55	56.00	-11.45	QP
5		1.2795	19.46	21.82	41.28	56.00	-14.72	QP
6		1.2795	5.64	21.82	27.46	46.00	-18.54	AVG
7		1.7295	16.95	22.00	38.95	56.00	-17.05	QP
8		1.7475	1.11	22.01	23.12	46.00	-22.88	AVG
9		3.1381	16.31	22.18	38.49	56.00	-17.51	QP
10		3.1561	3.83	22.18	26.01	46.00	-19.99	AVG
11		13.4296	14.24	22.61	36.85	60.00	-23.15	QP
12		13.5781	2.00	22.62	24.62	50.00	-25.38	AVG





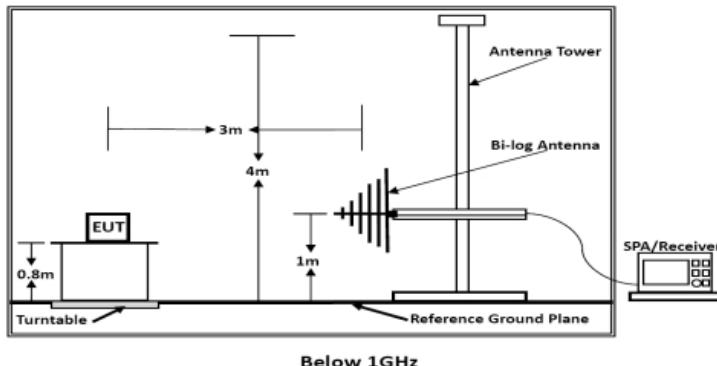
4.2 Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B				
Test Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:				
Frequency of emission (MHz)		Field strength @3m		Field strength @10m	
		(uV/m)	(dBuV/m)	(uV/m)	(dBuV/m)
30 – 88		100	40	30	29.5
88 – 216		150	43.5	45	33.1
216 – 960		200	46	60	35.6
Above 960		500	54	150	43.5
Test Method:	ANSI C63.4-2014				
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor				

4.2.1 E.U.T. Operation:

Operating Environment:			
Temperature:	22.3 °C	Humidity:	53 %
Pre test mode:	TM1, TM2		
Final test mode:	TM1, TM2		

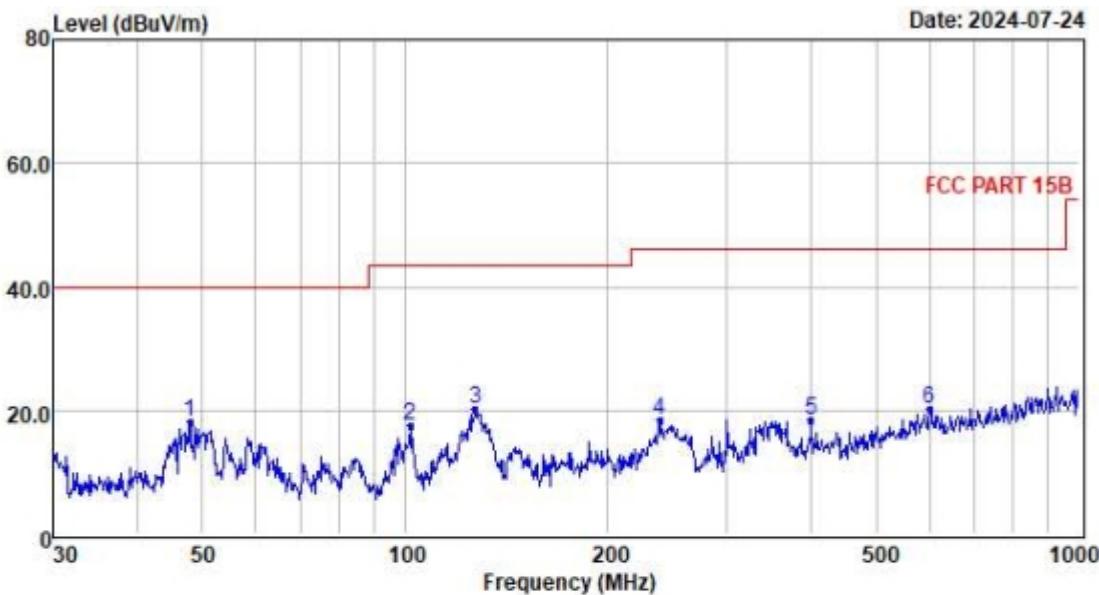
4.2.2 Test Setup Diagram:





4.2.3 Test Data:

TM1 / Polarization: Horizontal



Freq	Reading	CabLos	Antfac	Measured		Limit	Over	Remark
				MHz	dBuV	dB	dB/m	
1	47.99	5.51	0.58	12.13	18.22	40.00	-21.78	QP
2	101.64	5.79	0.81	10.82	17.42	43.50	-26.08	QP
3	127.22	9.63	0.94	9.72	20.29	43.50	-23.21	QP
4	239.15	4.85	1.25	12.19	18.29	46.00	-27.71	QP
5	400.43	2.36	1.40	14.72	18.48	46.00	-27.52	QP
6	601.43	-0.62	1.50	19.28	20.16	46.00	-25.84	QP

Note: 1. All readings are Quasi-peak values.

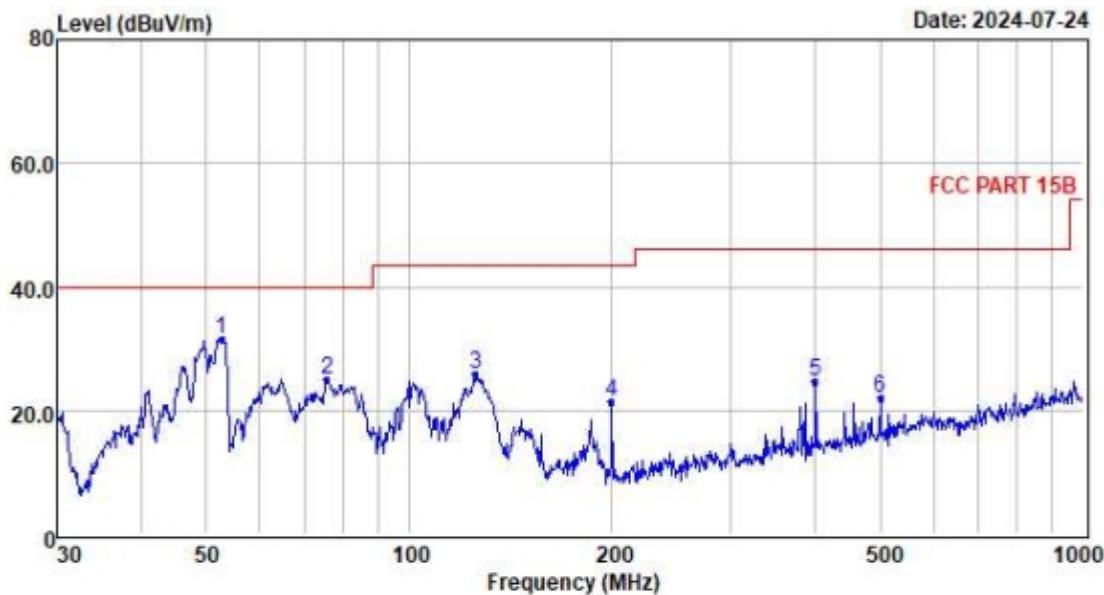
2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that are 20db below the official limit are not reported





TM1 / Polarization: Vertical



I	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	52.76	18.39	0.62	12.57	31.58	40.00	-8.42	QP
2	75.45	14.17	0.72	9.98	24.87	40.00	-15.13	QP
3	125.45	15.01	0.93	9.93	25.87	43.50	-17.63	QP
4	199.99	9.27	1.20	10.80	21.27	43.50	-22.23	QP
5	400.43	8.59	1.40	14.72	24.71	46.00	-21.29	QP
6	501.18	3.82	1.50	16.82	22.14	46.00	-23.86	QP

Note: 1. All readings are Quasi-peak values.

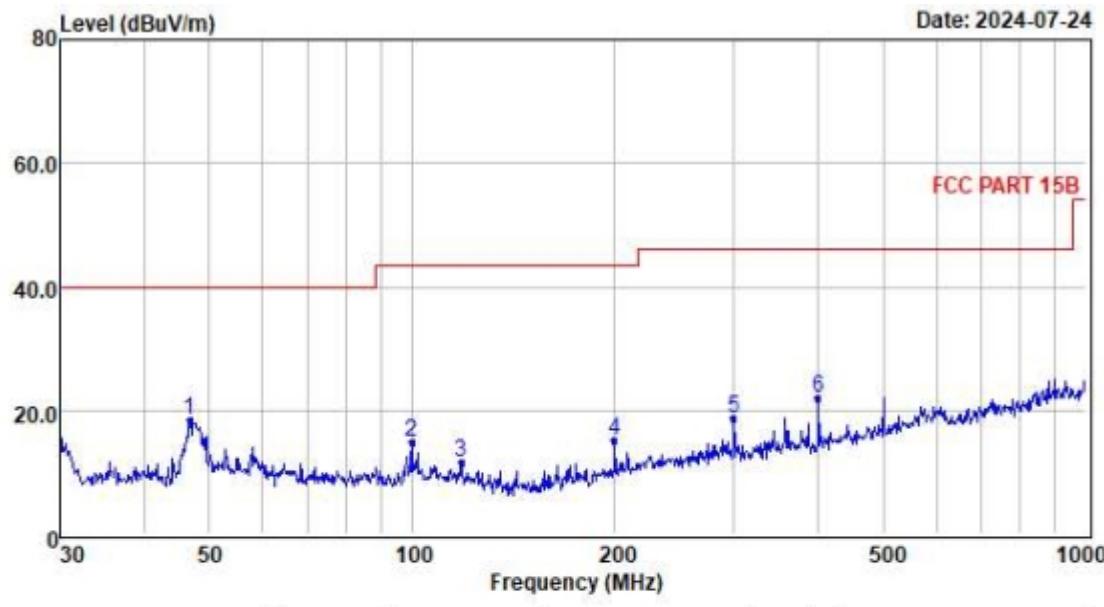
2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that are 20db below the official limit are not reported





TM2 / Polarization: Horizontal



I	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	46.83	5.96	0.57	11.85	18.38	40.00	-21.62	QP
2	99.88	3.46	0.80	10.69	14.95	43.50	-28.55	QP
3	118.19	-0.12	0.90	10.74	11.52	43.50	-31.98	QP
4	199.99	3.30	1.20	10.80	15.30	43.50	-28.20	QP
5	300.37	3.78	1.32	13.70	18.80	46.00	-27.20	QP
6	400.43	5.92	1.40	14.72	22.04	46.00	-23.96	QP

Note: 1. All readings are Quasi-peak values.

2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that are 20db below the official limit are not reported



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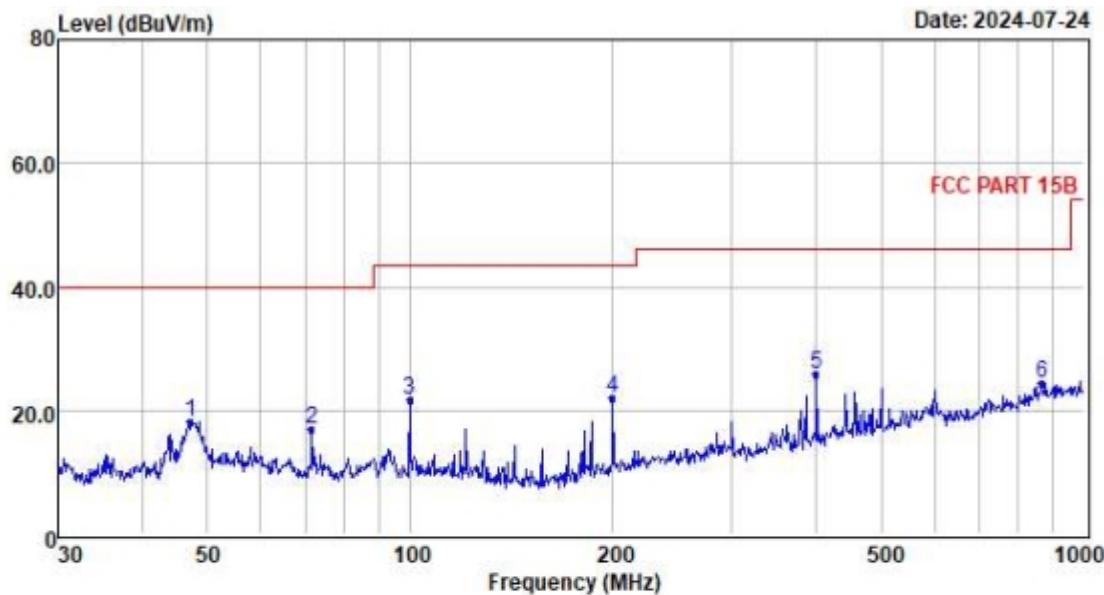
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TM2 / Polarization: Vertical



	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	47.16	5.75	0.58	11.93	18.26	40.00	-21.74	QP
2	71.33	6.16	0.70	10.14	17.00	40.00	-23.00	QP
3	99.88	10.13	0.80	10.69	21.62	43.50	-21.88	QP
4	199.99	10.04	1.20	10.80	22.04	43.50	-21.46	QP
5	400.43	9.86	1.40	14.72	25.98	46.00	-20.02	QP
6	866.09	1.24	2.07	21.17	24.48	46.00	-21.52	QP

Note: 1. All readings are Quasi-peak values.

2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that are 20db below the official limit are not reported





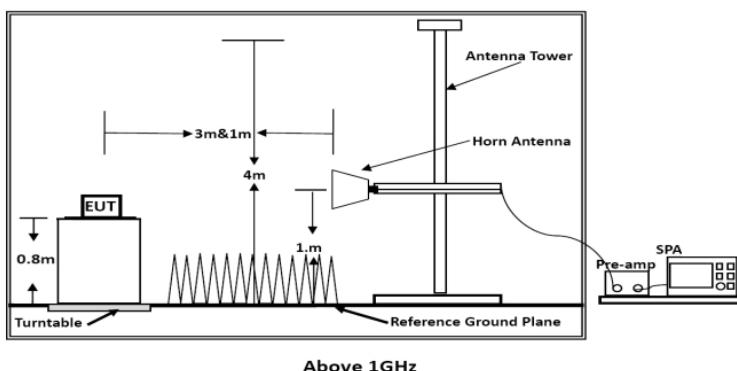
4.3 Radiated emissions (Above 1GHz)

Test Requirement:	15.109, Class B			
Test Limit:	Frequency of emission (MHz)		Field strength @3m	
	Above 1GHz	Average (uV/m)	Average(d BuV/m)	Peak (dBuV/m)
Test Method:	ANSI C63.4-2014			
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. For below 1GHz test, Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. For above 1GHz test, Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor			

4.3.1 E.U.T. Operation:

Operating Environment:			
Temperature:	23.9 °C	Humidity:	52 %
Pre test mode:	TM1		
Final test mode:	TM1		

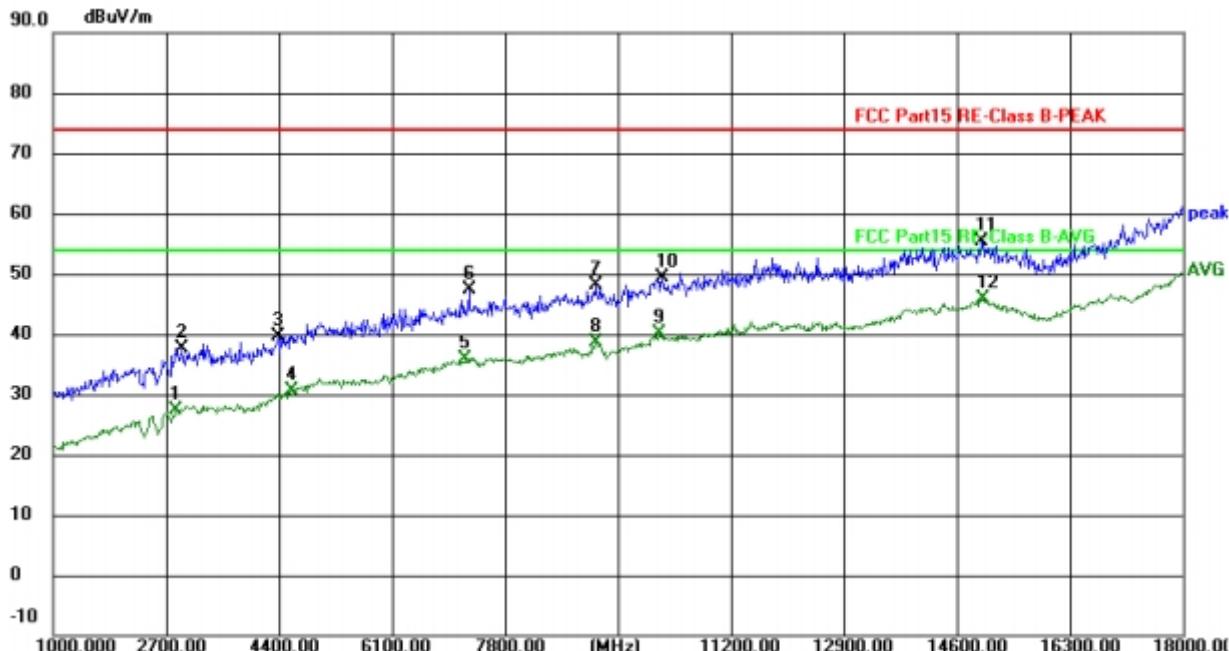
4.3.2 Test Setup Diagram:





4.3.3 Test Data:

TM1 / Polarization: Horizontal

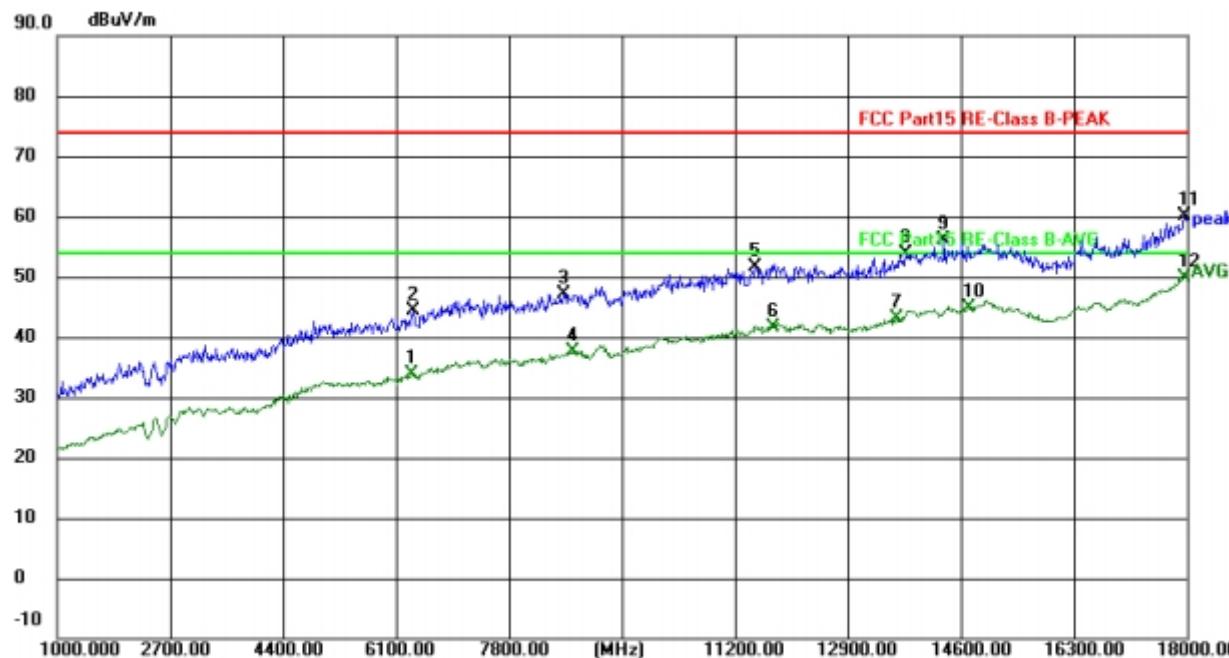


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2853.000	37.50	-10.10	27.40	54.00	-26.60	AVG	P	
2	2938.000	47.43	-9.81	37.62	74.00	-36.38	peak	P	
3	4383.000	46.68	-7.03	39.65	74.00	-34.35	peak	P	
4	4587.000	36.84	-6.15	30.69	54.00	-23.31	AVG	P	
5	7205.000	35.62	0.15	35.77	54.00	-18.23	AVG	P	
6	7256.000	47.04	0.23	47.27	74.00	-26.73	peak	P	
7	9160.000	45.89	2.15	48.04	74.00	-25.96	peak	P	
8	9177.000	36.46	2.18	38.64	54.00	-15.36	AVG	P	
9	10129.000	36.32	3.78	40.10	54.00	-13.90	AVG	P	
10	10163.000	45.57	3.84	49.41	74.00	-24.59	peak	P	
11	14974.000	45.50	9.98	55.48	74.00	-18.52	peak	P	
12	14991.000	35.78	9.99	45.77	54.00	-8.23	AVG	P	





TM1 / Polarization: Vertical



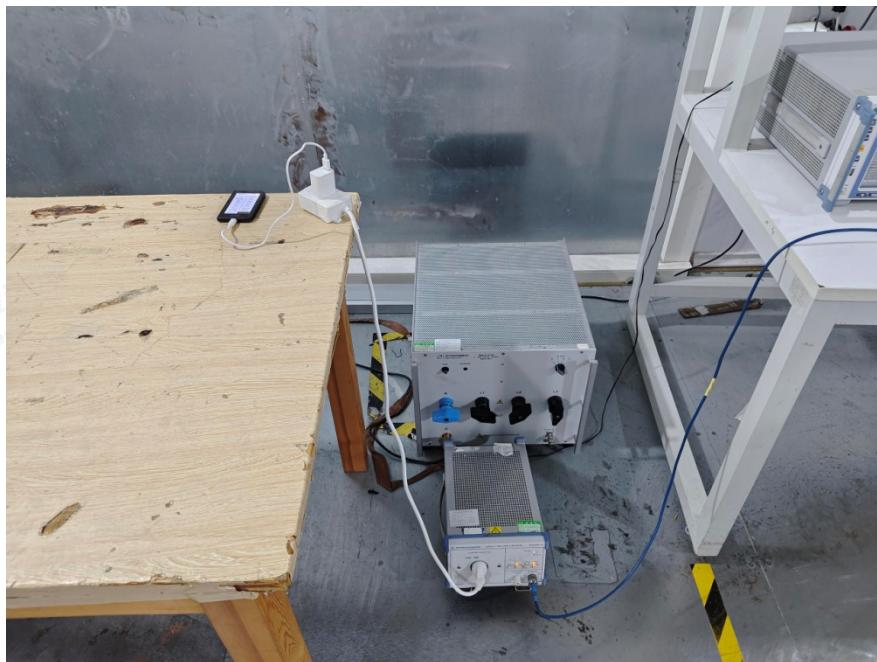
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	6338.000	36.11	-2.17	33.94	54.00	-20.06	AVG	P	
2	6355.000	46.51	-2.10	44.41	74.00	-29.59	peak	P	
3	8616.000	45.74	1.51	47.25	74.00	-26.75	peak	P	
4	8769.000	35.94	1.66	37.60	54.00	-16.40	AVG	P	
5	11506.000	45.55	6.02	51.57	74.00	-22.43	peak	P	
6	11778.000	35.25	6.39	41.64	54.00	-12.36	AVG	P	
7	13631.000	35.02	8.10	43.12	54.00	-10.88	AVG	P	
8	13767.000	45.47	8.49	53.96	74.00	-20.04	peak	P	
9	14345.000	46.68	9.46	56.14	74.00	-17.86	peak	P	
10	14719.000	35.07	9.77	44.84	54.00	-9.16	AVG	P	
11	17966.000	42.56	17.45	60.01	74.00	-13.99	peak	P	
12	17966.000	32.50	17.45	49.95	54.00	-4.05	AVG	P	



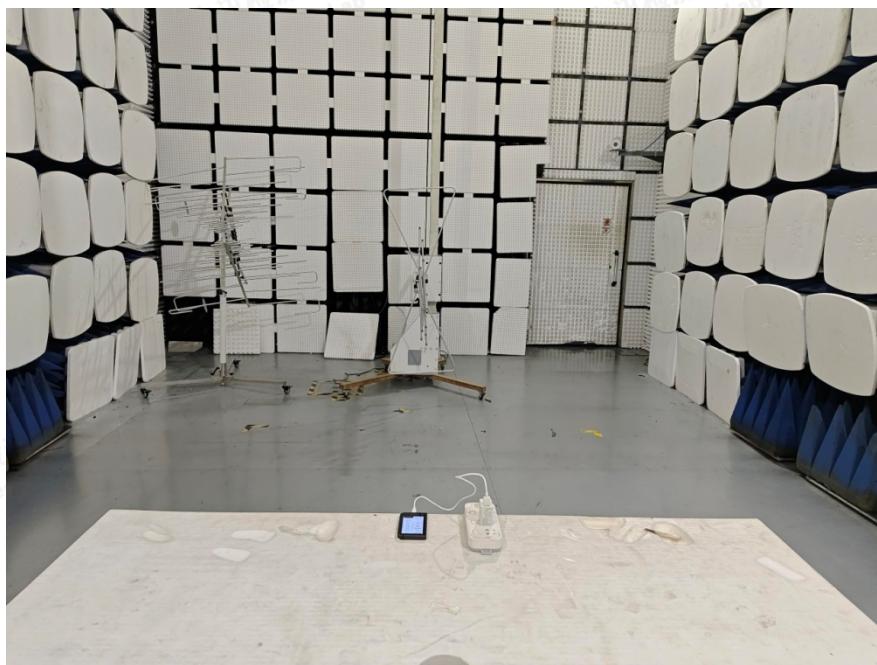


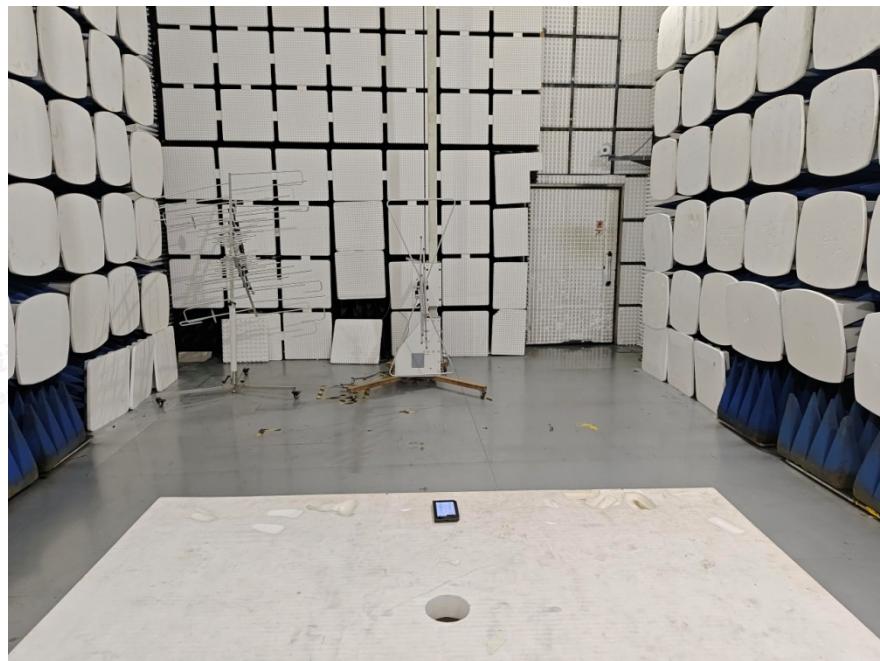
5. TEST SETUP PHOTOS

Conducted emissions on AC mains

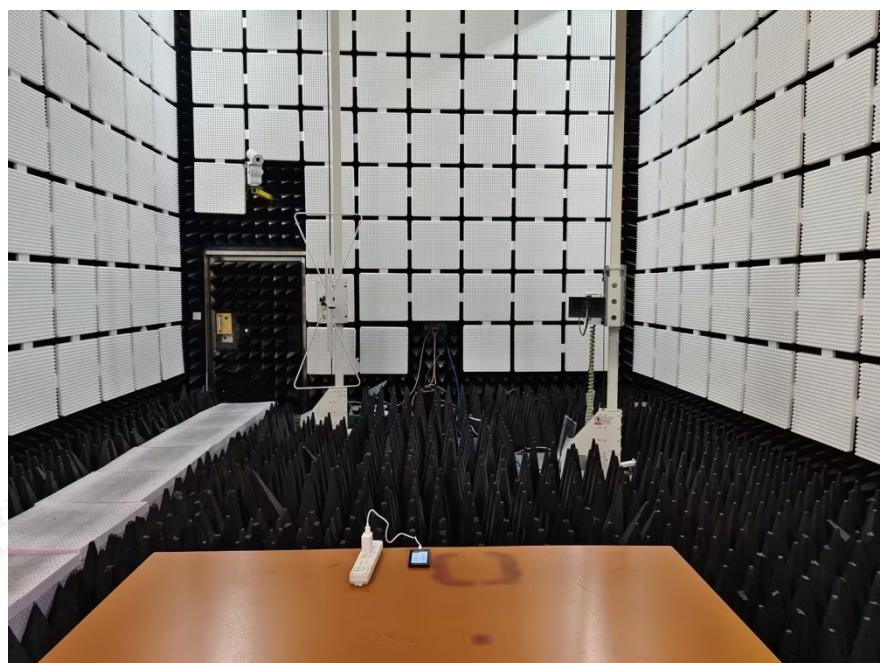


Radiated emissions (Below 1GHz)





Radiated emissions (Above 1GHz)



6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)

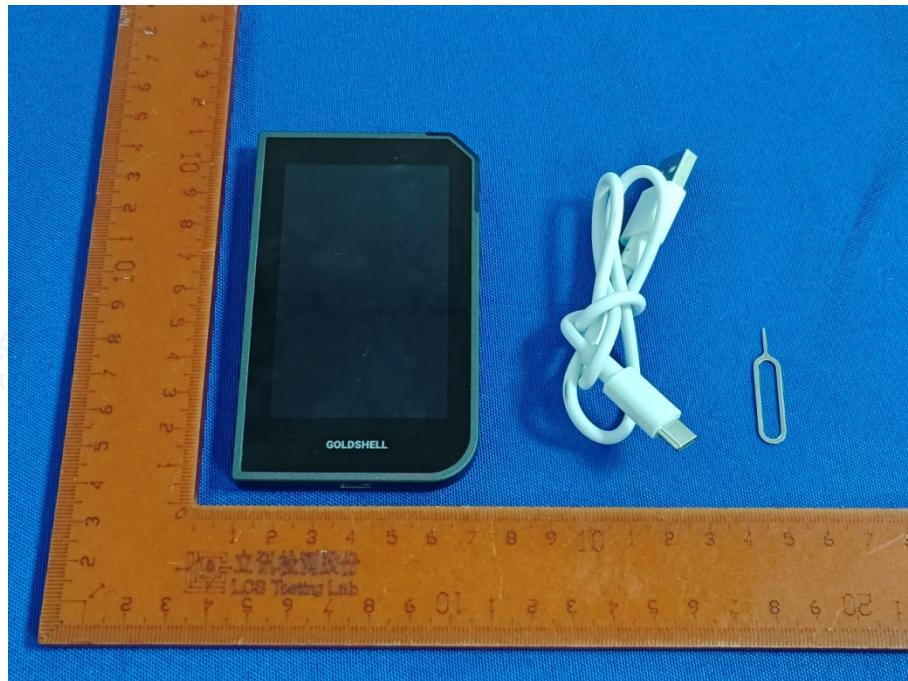


Fig. 1



Fig. 2





Fig. 3

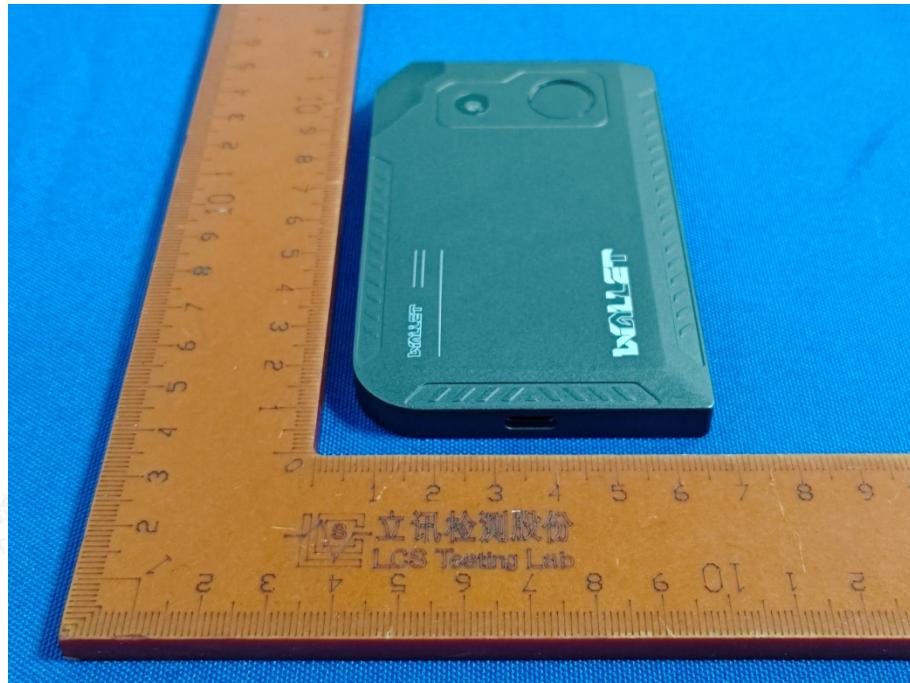


Fig. 4



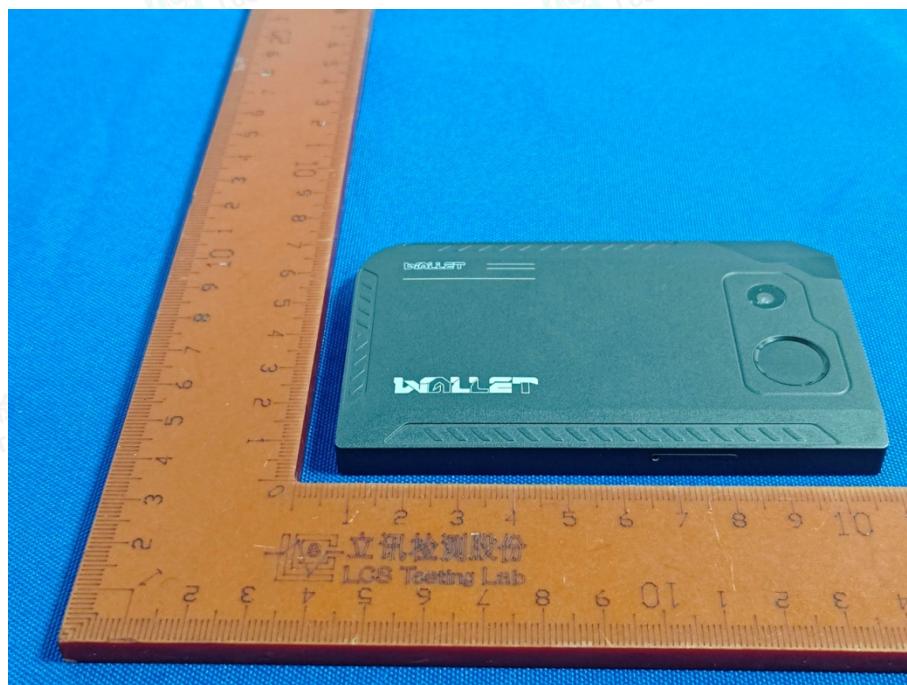


Fig. 5

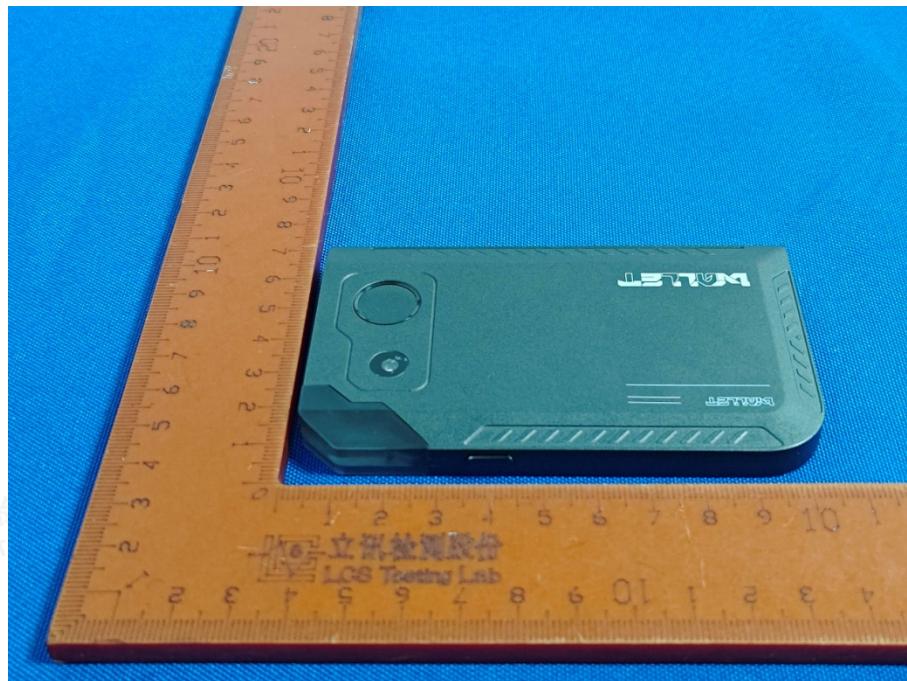


Fig. 6



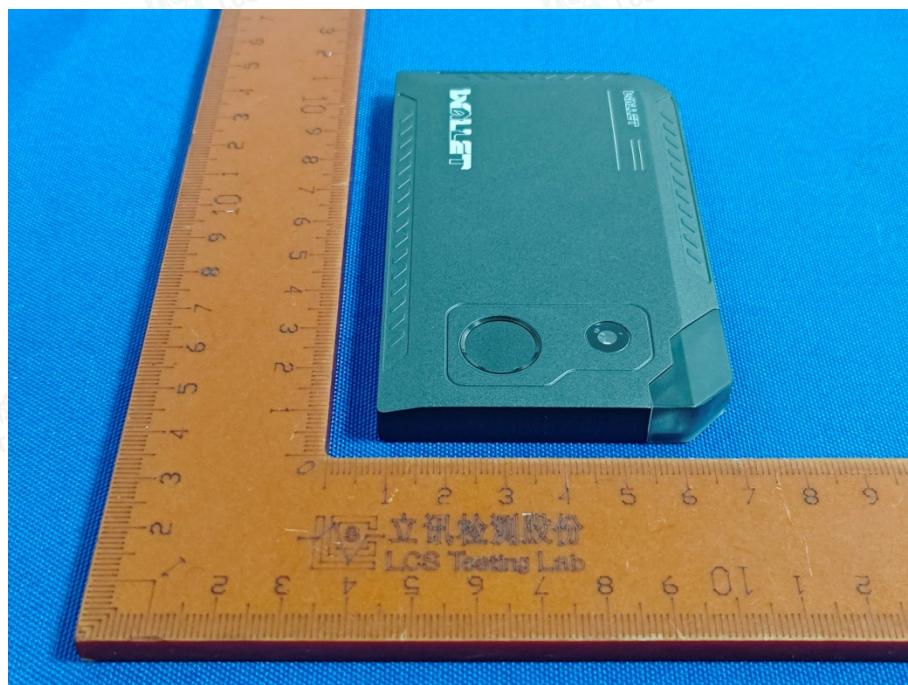


Fig. 7



Fig. 8



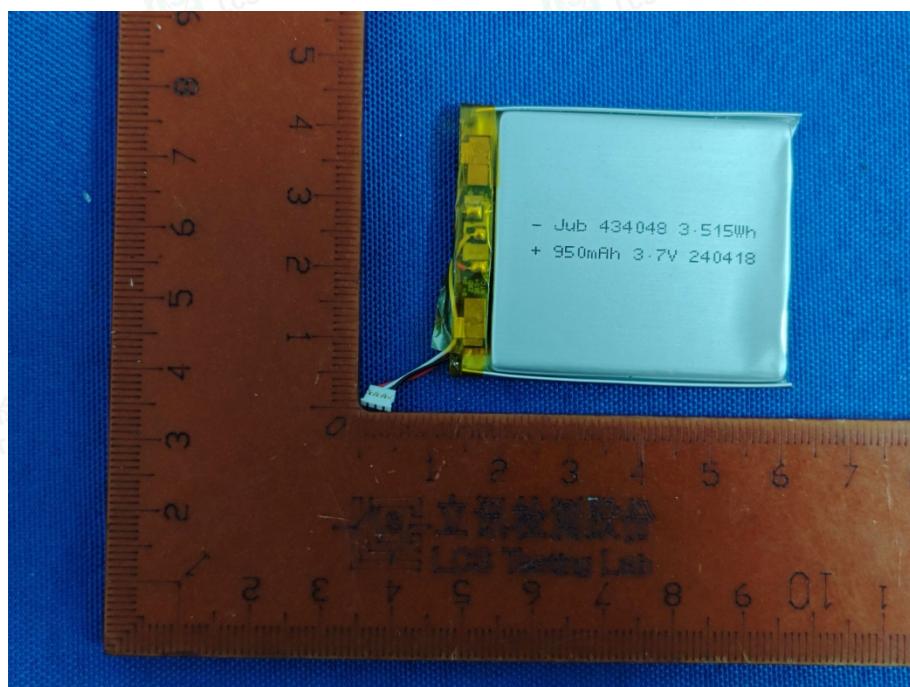


Fig. 9

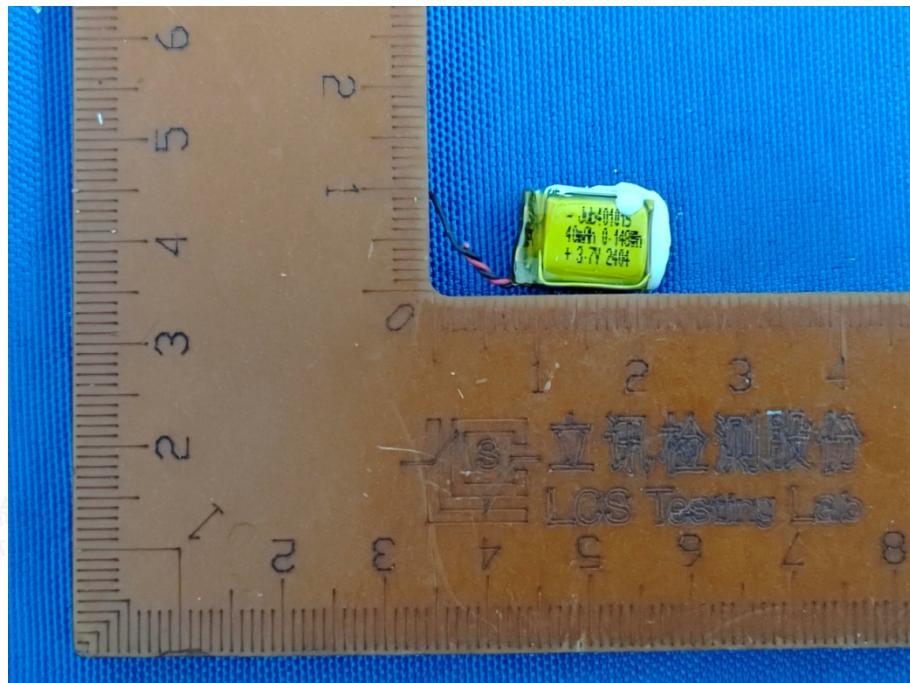


Fig. 10



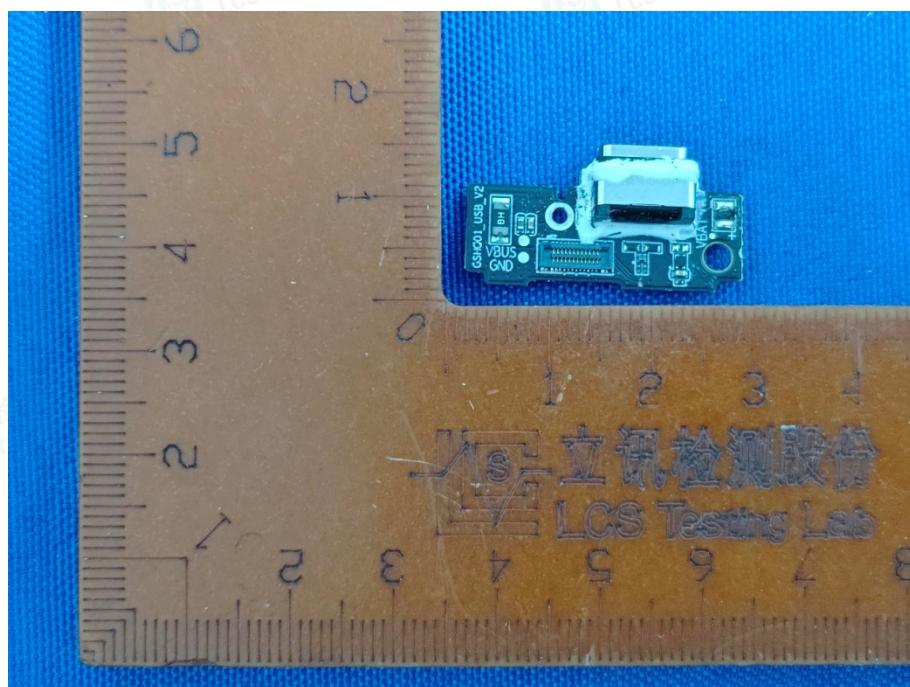


Fig. 11

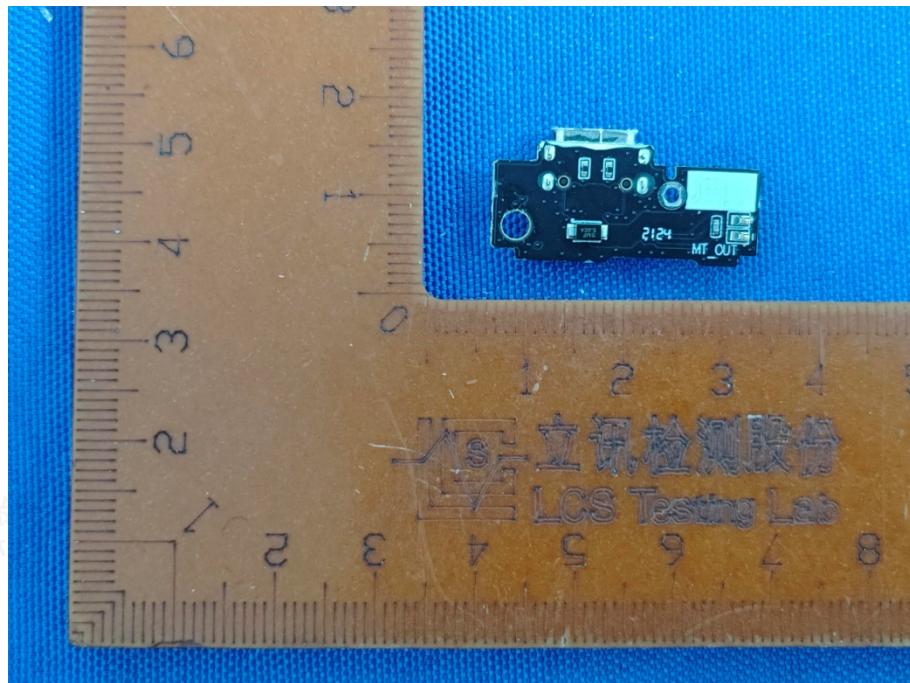


Fig. 12



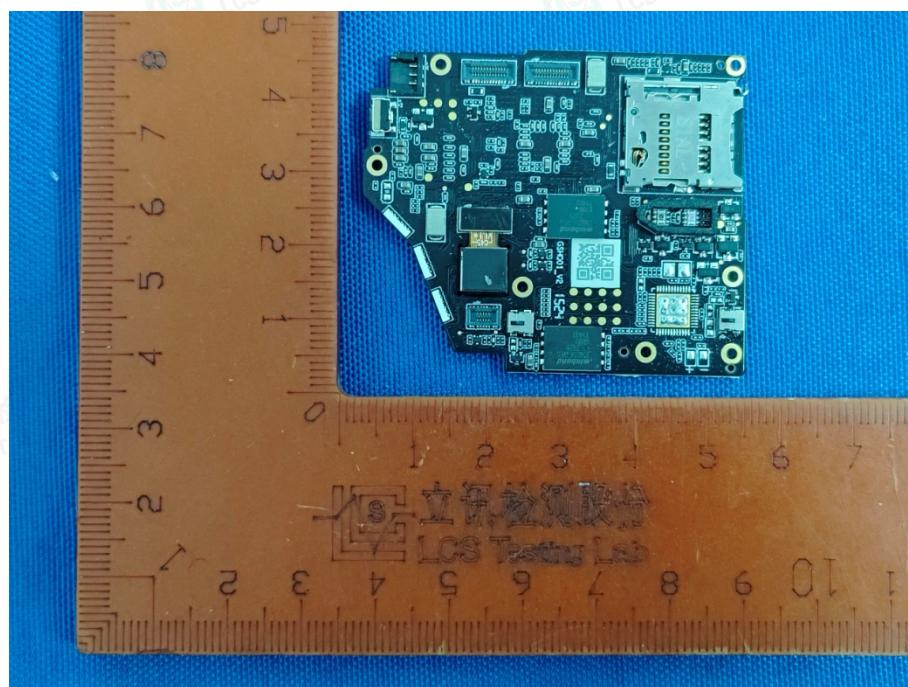


Fig. 13

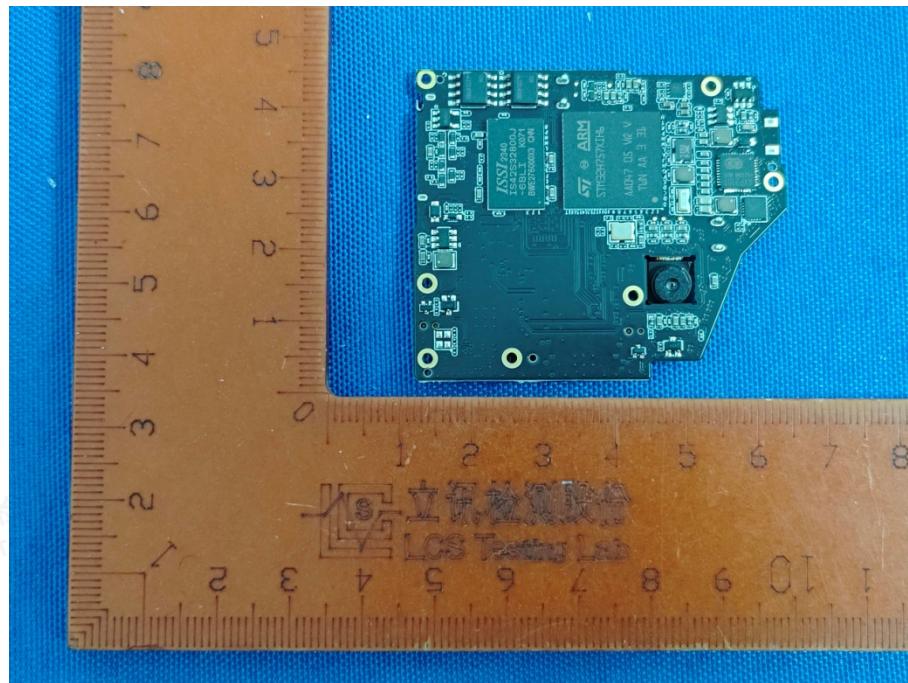


Fig. 14

--- End of Report ---

