EMC TEST REPORT

Product Name: locator

Model Number: G01, G02, G03, G04, G05, G06, G07, G08, G09, G10, G11, G12, G13, G14, G15

FCC ID: 2BKBX-G01

Issued For : Shenzhen Weilin Huachuang Technology Co.,Ltd

4 / F, Building D, Youth Pioneer Park, Jianshe East Road, Qinghua Community, Longhua District, Shenzhen, China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Report Number:	LGT26A165EM01
Sample Received Date:	Jan. 23, 2026
Date of Test:	Jan. 23, 2026 ~ Feb. 04, 2026
Date of Issue:	Feb. 04, 2026

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TEST REPORT CERTIFICATION

Applicant:	Shenzhen Weilin Huachuang Technology Co.,Ltd
Address:	4 / F, Building D, Youth Pioneer Park, Jianshe East Road, Qinghua Community, Longhua District, Shenzhen, China
Manufacturer:	Shenzhen Weilin Huachuang Technology Co.,Ltd
Address:	4 / F, Building D, Youth Pioneer Park, Jianshe East Road, Qinghua Community, Longhua District, Shenzhen, China
Product Name:	locator
Trademark:	N/A
Model Number:	G01, G02, G03, G04, G05, G06, G07, G08, G09, G10, G11, G12, G13, G14, G15
Sample Status:	Normal

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	**PASS**

Prepared by:

Terry Zhao
Engineer

Approved by:

Vita Li
Technical Director

SHENZHEN LGT TEST SERVICE CO., LTD.
LGT
领冠检测

Table of Contents

1. TEST SUMMARY **5**

1.1 TEST LABORATORY 6

1.2 MEASUREMENT UNCERTAINTY 6

2. GENERAL INFORMATION **7**

2.1 GENERAL DESCRIPTION OF THE EUT 7

2.2 DESCRIPTION OF THE TEST MODES 8

2.3 DESCRIPTION OF THE SUPPORT UNITS 8

2.4 MEASUREMENT INSTRUMENTS LIST 9

3. EMC EMISSION TEST **10**

3.1 CONDUCTED EMISSION MEASUREMENT 10

3.2 RADIATED EMISSION MEASUREMENT 14

APPENDIX I - TEST SETUP **18**

APPENDIX II - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS **20**

Revision History

Rev.	Issue Date	Revisions
00	Feb. 04, 2026	Initial Issue

1. TEST SUMMARY

EMC Emission				
Standard	Test Item	Limit	Judgement	Remark
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	Conducted Emissions	Class B	PASS	
	Radiated Emissions Below 1GHz	Class B	PASS	
	Radiated Emissions Above 1GHz	Class B	PASS	Note 2

Note:

1 “N/A” denotes test is not applicable in this Test Report

2 If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.

1.1 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

Test Item	Measurement Frequency Range MHz	Uncertainty dB
Conducted Emissions at AC mains power port	0.009 ~ 30	2.80
Radiated Emissions	0.009 ~ 30	2.16
Radiated Emissions	30 ~ 1000	4.61
Radiated Emissions	1000 ~ 18000	5.49
Note: 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. 2. The measurement uncertainty is not included in the test result.		

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	locator
Test Model Number:	G01
Series Number:	G02, G03, G04, G05, G06, G07, G08, G09, G10, G11, G12, G13, G14, G15
Model Difference:	Only the model is different.
Rating:	Input: DC 5V 1A
Battery:	Capacity:1300mAh Rated Voltage: 3.85V
Test Voltage:	AC 120V/60Hz Battery: 3.85V
Hardware Version:	N/A
Software Version:	N/A
Connecting I/O Port(s):	Please refer to the Note 1.

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operating mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Mode	Description
Mode 1	On, operating

Note: Only the data of worst-case was recorded in this report.

2.3 DESCRIPTION OF THE SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
USB Cable	N/A	N/A	N/A	N/A

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	Tenpao	S008ACM0500200	N/A	Input: 100-240V 50/60Hz 0.3A Output: 5V, 2A

Note:

(1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.4 MEASUREMENT INSTRUMENTS LIST

Conducted Emission					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date**	**Cal. Until**
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
LISN	COM-POWER	LI-115	02032	2025.03.05	2026.03.04
LISN	SCHWARZBECK	NNLK 8122	00160	2025.03.05	2026.03.04
LISN	EMTRACE	PWL-50-3200	00317	2025.03.05	2026.03.04
LISN	EMTRACE	PVDC-150R-200	00353	2025.03.12	2026.03.11
ISN	FCC	T4-02	91317	2025.03.05	2026.03.04
ISN	SCHWARZBECK	NTFM 8158	00303	2025.03.05	2026.03.04
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2025.03.05	2026.03.04
Temperature & Humidity	BT-3	JINGCHUANG	N.A	2025.03.10	2026.03.09
Testing Software	SKET	EMC-I	V1.4.0.3	N/A	N/A
Radiated Emission					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date**	**Cal. Until**
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
Spectrum Analyzer	Keysight	N9020A	MY50530994	2025.03.05	2026.03.04
Spectrum Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04
Active loop Antenna	ETS	6502	00049544	2025.03.11	2028.03.10
Trilog Broadband Antenna	SCHWARZBECK	VULB 9168	01447	2024.05.17	2027.05.16
Horn Antenna	SCHWARZBECK	3115	10SL0060	2025.03.10	2028.03.09
Pre-amplifier (9kHz-1GHz)	EMtrace	RP01A	02017	2025.03.06	2026.03.05
Pre-amplifier (1-26.5G)	Agilent	8449B	3008A4722	2025.03.06	2026.03.05
Temperature & Humidity	BT-3	JINGCHUANG	N.A	2025.03.10	2026.03.09
Testing Software	SKET	EMC-I	V1.4.0.3	N/A	N/A

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS

FREQUENCY (MHz)	Conducted Emission Limits (dBuV)			
	Class A		Class B	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.5 ~ 5	73.00	60.00	56.00	46.00
5 ~ 30	73.00	60.00	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

(3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor
Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

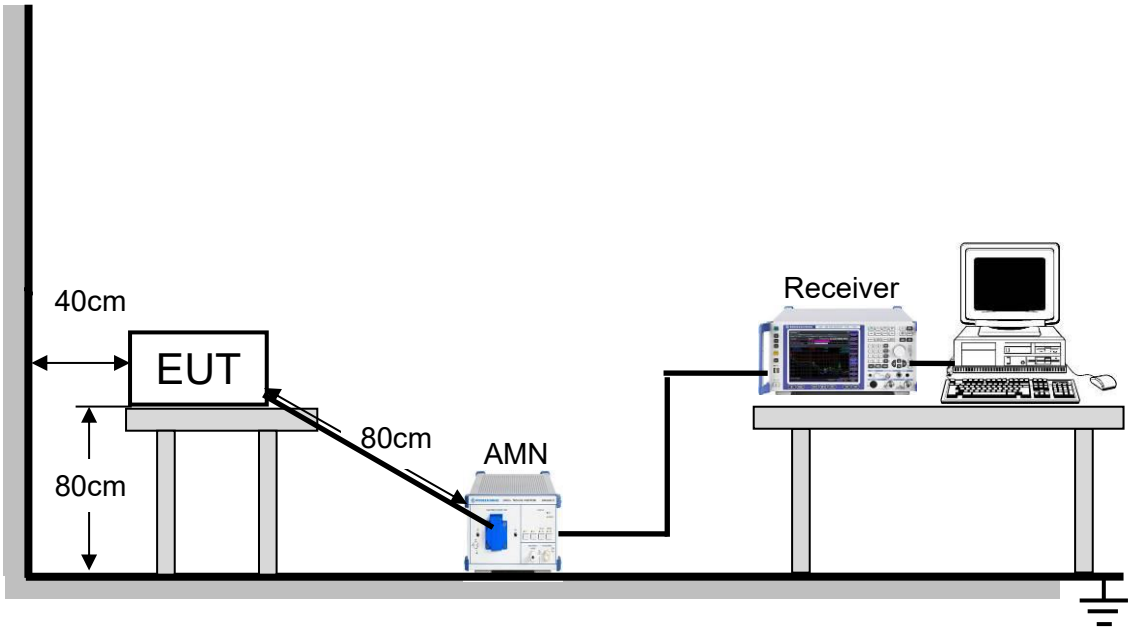
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

d. LISN at least 80 cm from nearest part of EUT chassis.

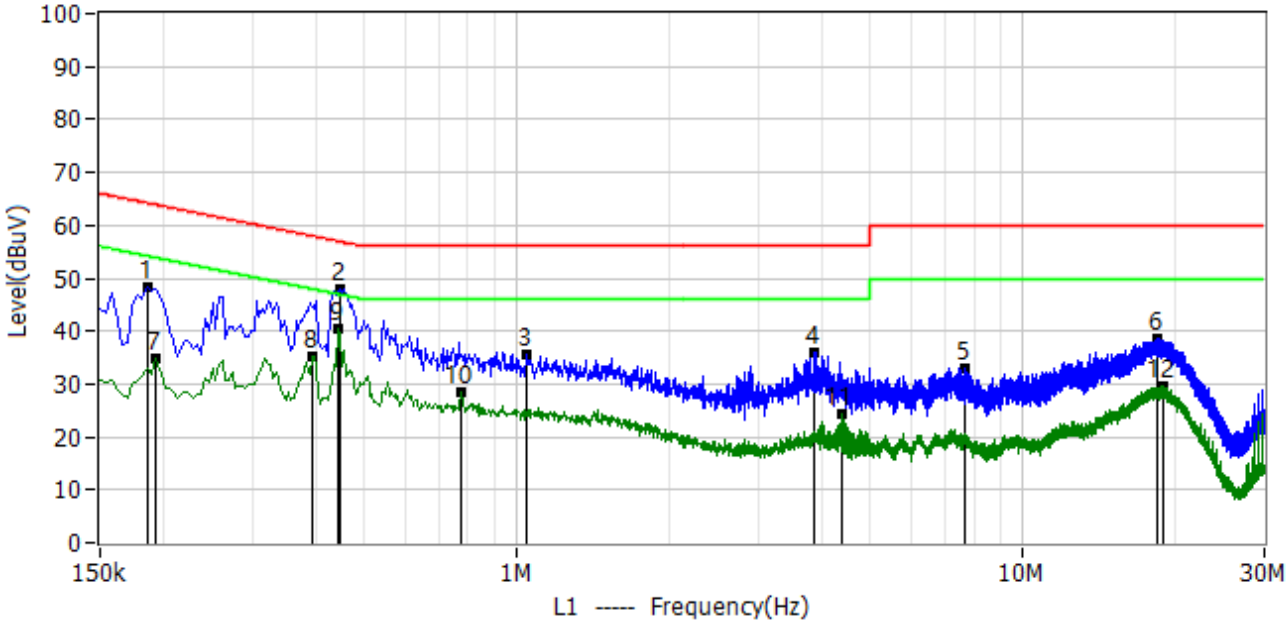
e. For the actual test configuration, please refer to the related Item - EUT Test Photos.

3.1.3 TEST SETUP



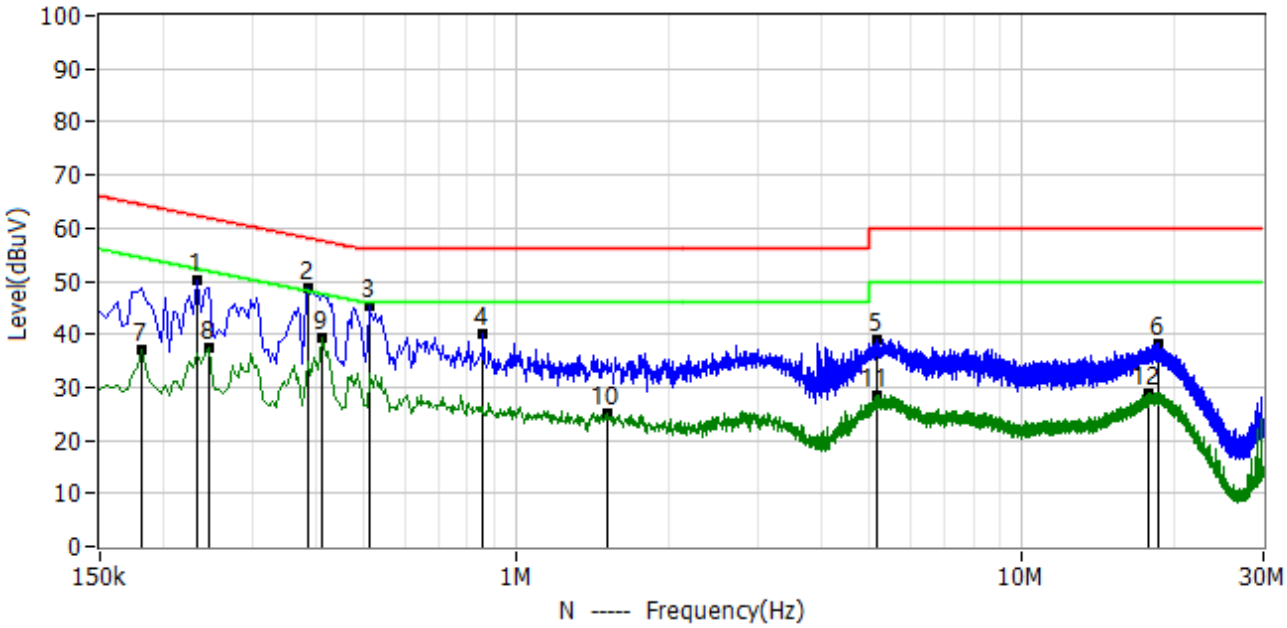
3.1.4 TEST RESULTS

Project: LGT26A165	Test Engineer: LiuH
EUT: locator	Temperature: 21.5℃
M/N: G01	Humidity: 56%RH
Test Voltage: AC 120V/60Hz	Test Data: 2026-01-27
Test Mode: On, operating	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.186	37.76	10.68	48.44	64.21	-15.77	QP	L1
2*	0.446	36.93	10.89	47.82	56.95	-9.13	QP	L1
3*	1.042	24.63	10.87	35.50	56.00	-20.50	QP	L1
4*	3.870	24.78	11.24	36.02	56.00	-19.98	QP	L1
5*	7.670	21.53	11.43	32.96	60.00	-27.04	QP	L1
6*	18.354	26.83	11.80	38.63	60.00	-21.37	QP	L1
7*	0.194	24.12	10.70	34.82	53.86	-19.04	AV	L1
8*	0.394	24.33	10.86	35.19	47.98	-12.79	AV	L1
9*	0.442	29.55	10.89	40.44	47.02	-6.58	AV	L1
10*	0.778	17.75	10.87	28.62	46.00	-17.38	AV	L1
11*	4.406	12.99	11.27	24.26	46.00	-21.74	AV	L1
12*	18.942	17.80	11.81	29.61	50.00	-20.39	AV	L1

Project: LGT26A165	Test Engineer: LiuH
EUT: locator	Temperature: 21.5℃
M/N: G01	Humidity: 56%RH
Test Voltage: AC 120V/60Hz	Test Data: 2026-01-27
Test Mode: On, operating	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.234	39.58	10.69	50.27	62.31	-12.04	QP	N
2*	0.386	37.77	10.82	48.59	58.15	-9.56	QP	N
3*	0.510	34.48	10.84	45.32	56.00	-10.68	QP	N
4*	0.858	29.25	10.83	40.08	56.00	-15.92	QP	N
5*	5.170	27.69	11.32	39.01	60.00	-20.99	QP	N
6*	18.590	26.59	11.75	38.34	60.00	-21.66	QP	N
7*	0.182	26.56	10.65	37.21	54.39	-17.18	AV	N
8*	0.246	26.70	10.69	37.39	51.89	-14.50	AV	N
9*	0.414	28.68	10.82	39.50	47.57	-8.07	AV	N
10*	1.510	13.93	11.10	25.03	46.00	-20.97	AV	N
11*	5.178	17.33	11.32	28.65	50.00	-21.35	AV	N
12*	17.806	17.27	11.73	29.00	50.00	-21.00	AV	N

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS

Below 1 GHz

Frequency (MHz)	Class A	Class B
	Field strength (dBuV/m) (at 3m)	Field strength (dBuV/m) (at 3m)
30 - 88	49.5	40
88 - 216	53.9	43.5
216 - 960	56.9	46
Above 960	60	54

Above 1 GHz

Frequency (MHz)	Class A		Class B	
	Field strength (dBuV/m) (at 3m)		Field strength (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Note:

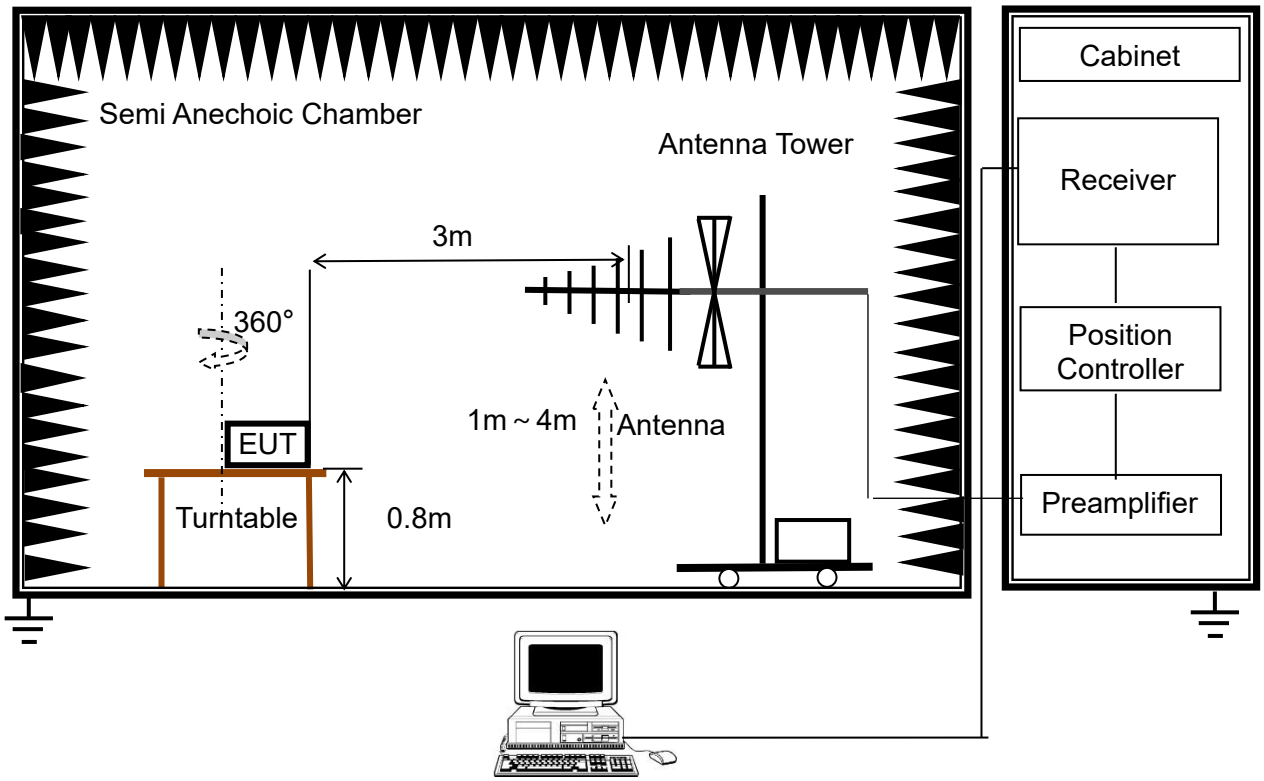
(1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
(2) The tighter limit applies at the band edges;
(3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use),
Margin Level = Measurement Value - Limit Value.

3.2.2 TEST PROCEDURE

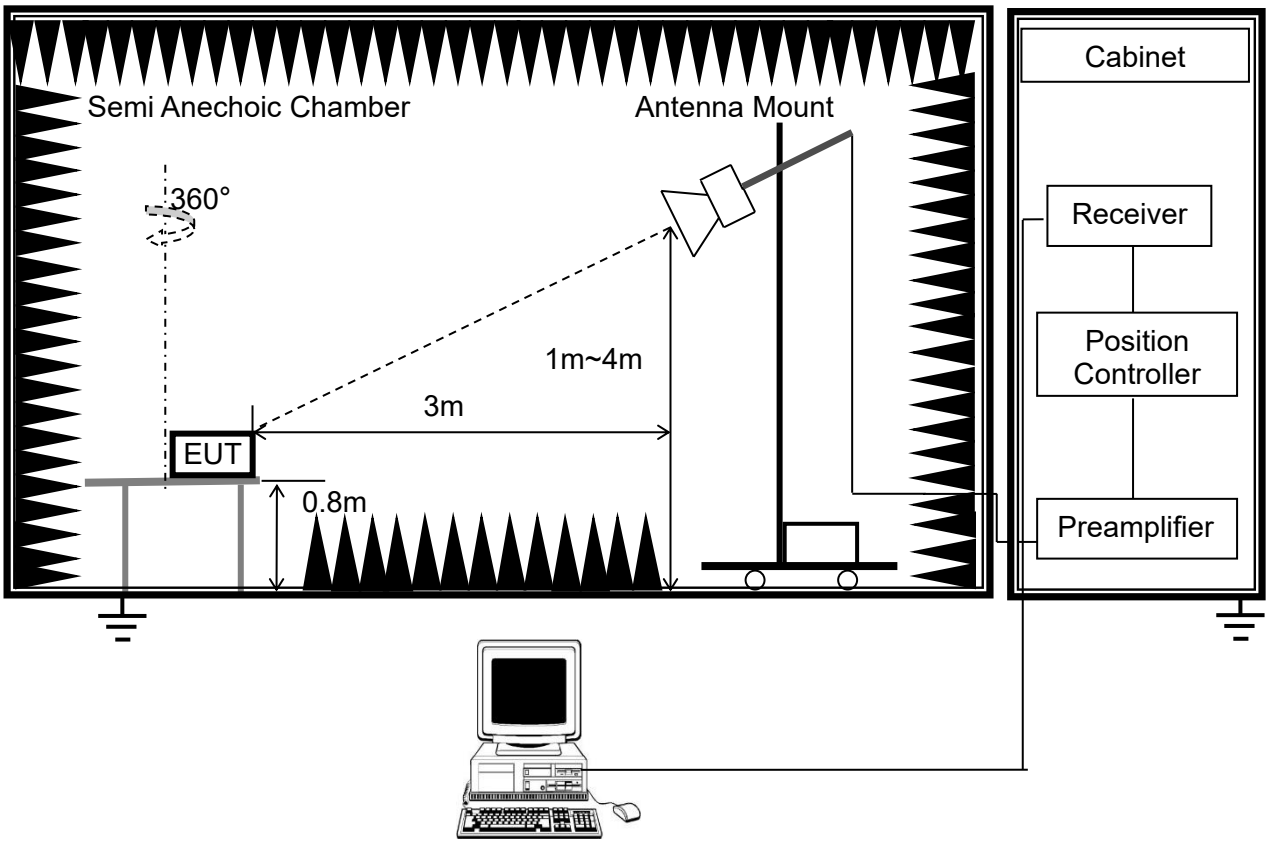
a. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
b. EUT as the center to the edge of the auxiliary device, the distance from the maximum edge to the center of the antenna is 3 meter.
c. The height of antenna is varied from 1 meter to 4 meter above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meter and the rotatable table was turned from 0 degrees to 360 degree to find the maximum reading.
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



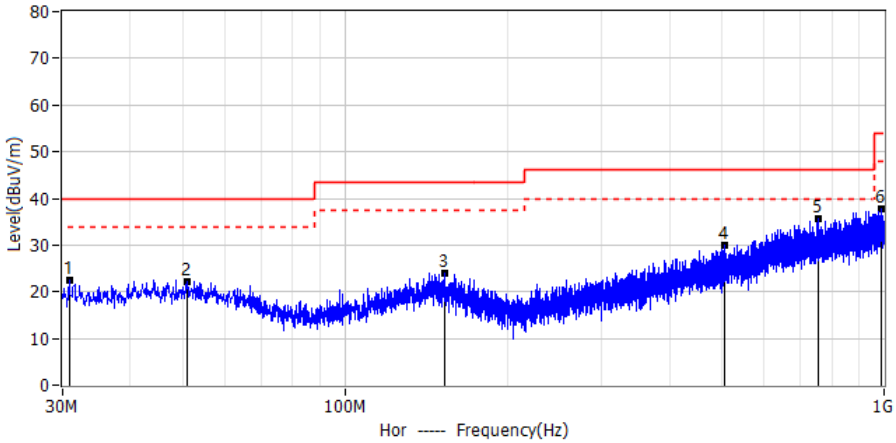
(B) Radiated Emission Test Set-Up Frequency Above 1GHz



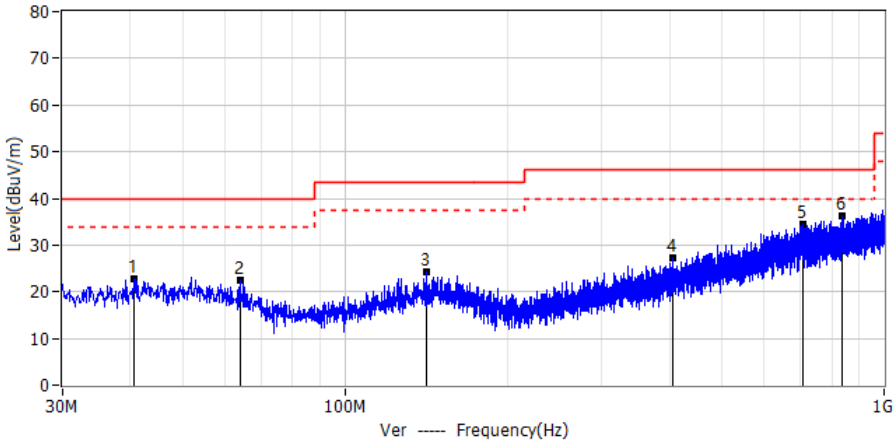
3.2.4 TEST RESULTS

BELOW 1GHZ

Project: LGT26A165	Test Engineer: LiuH
EUT: locator	Temperature: 21.5℃
M/N: G01	Humidity: 56%RH
Test Voltage: AC 120V/60Hz	Test Data: 2026-01-27
Test Mode: On, operating	
Note:	



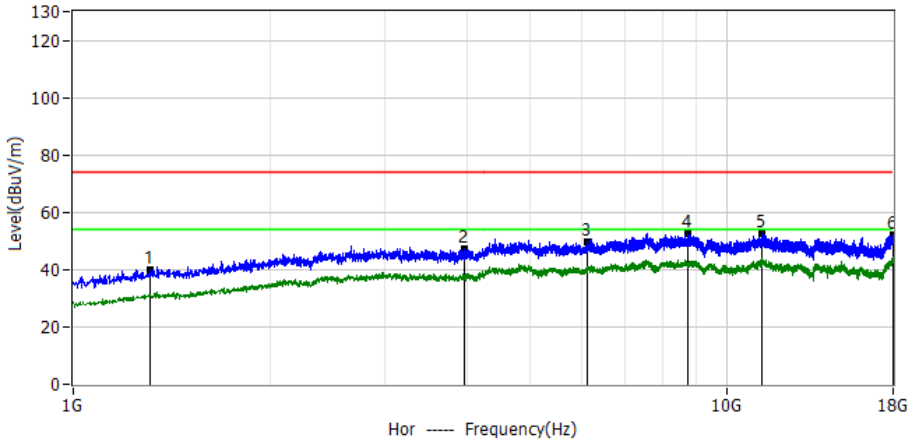
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	30.849	2.85	19.48	22.33	40.00	-17.67	QP	Hor
2*	50.976	1.38	20.66	22.04	40.00	-17.96	QP	Hor
3*	153.311	2.32	21.68	24.00	43.50	-19.50	QP	Hor
4*	506.391	2.99	27.05	30.04	46.00	-15.96	QP	Hor
5*	755.075	4.97	30.82	35.79	46.00	-10.21	QP	Hor
6*	991.028	4.00	33.77	37.77	54.00	-16.23	QP	Hor



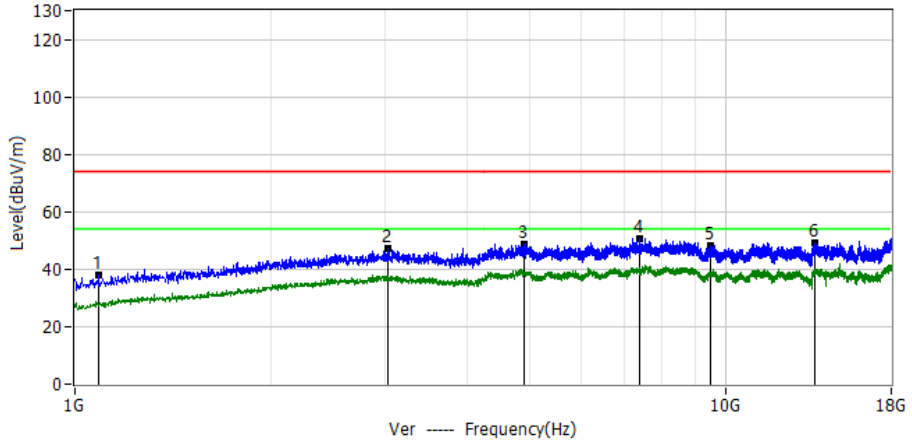
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	40.670	2.60	20.25	22.85	40.00	-17.15	QP	Ver
2*	63.950	3.41	18.96	22.37	40.00	-17.63	QP	Ver
3*	142.156	3.39	21.02	24.41	43.50	-19.09	QP	Ver
4*	404.663	2.76	24.36	27.12	46.00	-18.88	QP	Ver
5*	706.575	3.69	30.64	34.33	46.00	-11.67	QP	Ver
6*	833.766	4.09	32.24	36.33	46.00	-9.67	QP	Ver

ABOVE 1GHZ

Project: LGT26A165	Test Engineer: LiuH
EUT: locator	Temperature: 21.5℃
M/N: G01	Humidity: 56%RH
Test Voltage: AC 120V/60Hz	Test Data: 2026-01-27
Test Mode: On, operating	
Note:	



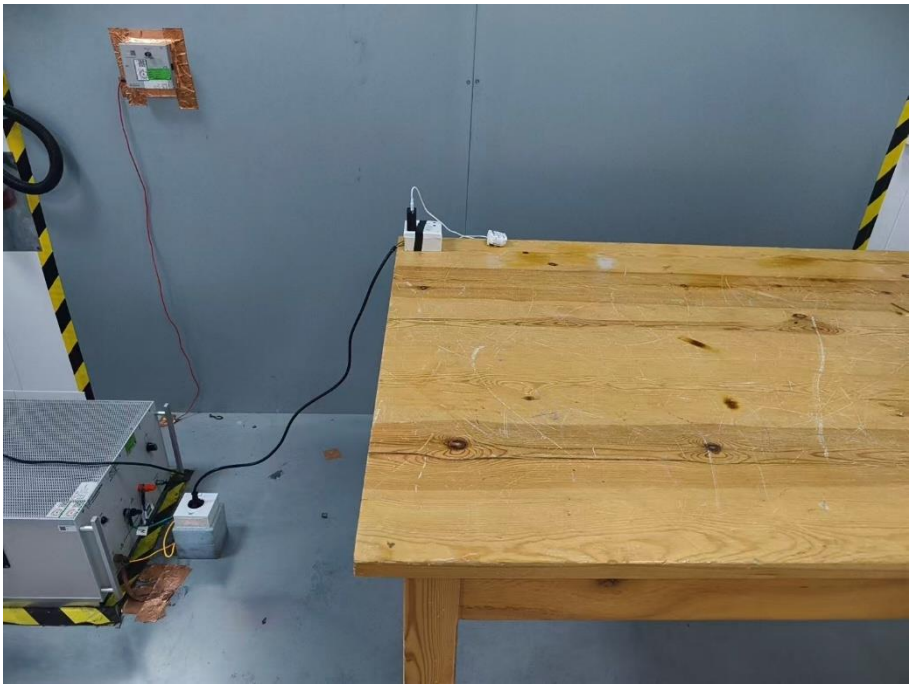
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.3081GHz	62.22	-22.06	40.16	74.00	-33.84	PK	Hor
2*	3.9707GHz	54.84	-7.73	47.11	74.00	-26.89	PK	Hor
3*	6.1127GHz	57.61	-7.87	49.74	74.00	-24.26	PK	Hor
4*	8.7244GHz	59.87	-7.27	52.60	74.00	-21.40	PK	Hor
5*	11.3041GHz	57.40	-5.05	52.35	74.00	-21.65	PK	Hor
6*	17.9766GHz	54.82	-2.93	51.89	74.00	-22.11	PK	Hor



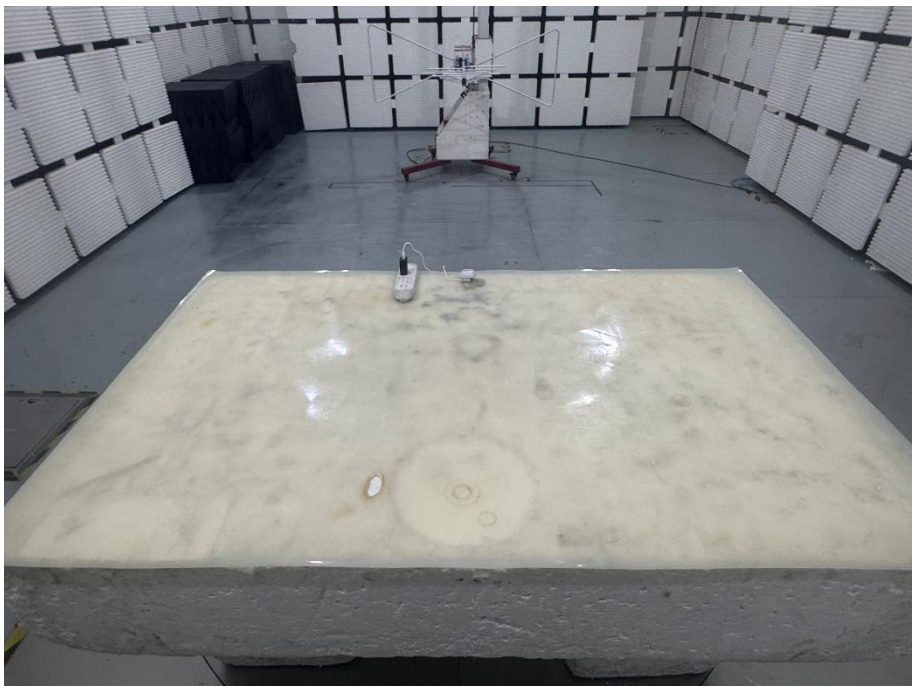
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1087.1000	62.35	-24.38	37.97	74.00	-36.03	PK	Ver
2*	3027.2000	55.32	-8.13	47.19	74.00	-26.81	PK	Ver
3*	4914.2000	54.79	-5.94	48.85	74.00	-25.15	PK	Ver
4*	7398.4000	57.63	-7.01	50.62	74.00	-23.38	PK	Ver
5*	9508.5000	55.39	-7.17	48.22	74.00	-25.78	PK	Ver
6*	13728.7000	54.29	-4.98	49.31	74.00	-24.69	PK	Ver

APPENDIX I - TEST SETUP

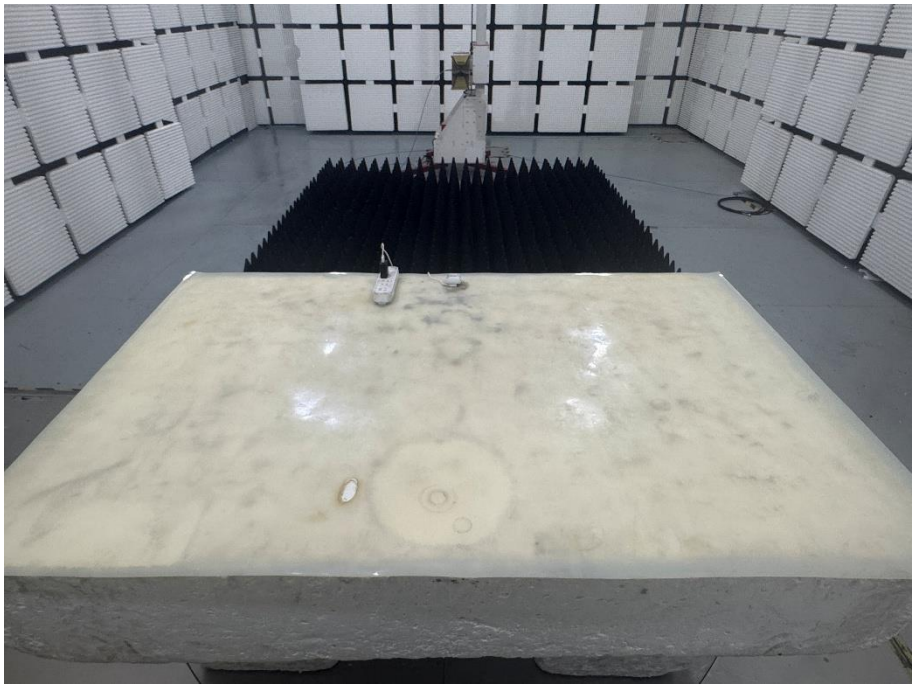
Set-up for Conducted Emission on AC Mains (CE)



Set-up for Radiated Emission (RE), Below 1GHz



Set-up for Radiated Emission (RE), Above 1GHz



APPENDIX II - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Photo 1

Photo 2

Photo 3

Photo 4

Photo 5

Photo 6

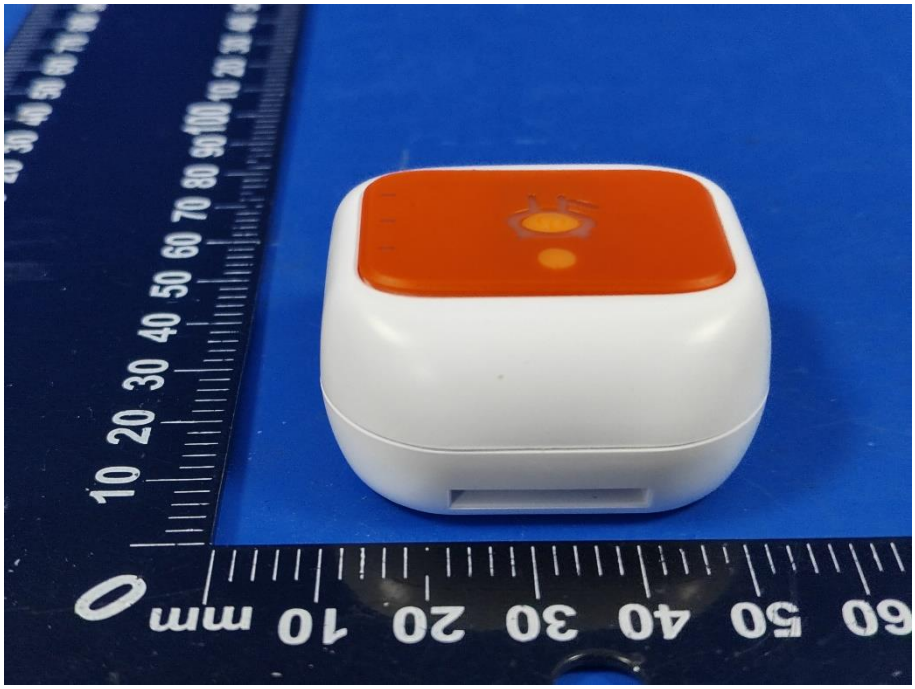


Photo 7

Photo 8

Photo 9

Photo 10

Photo 11

Photo 12

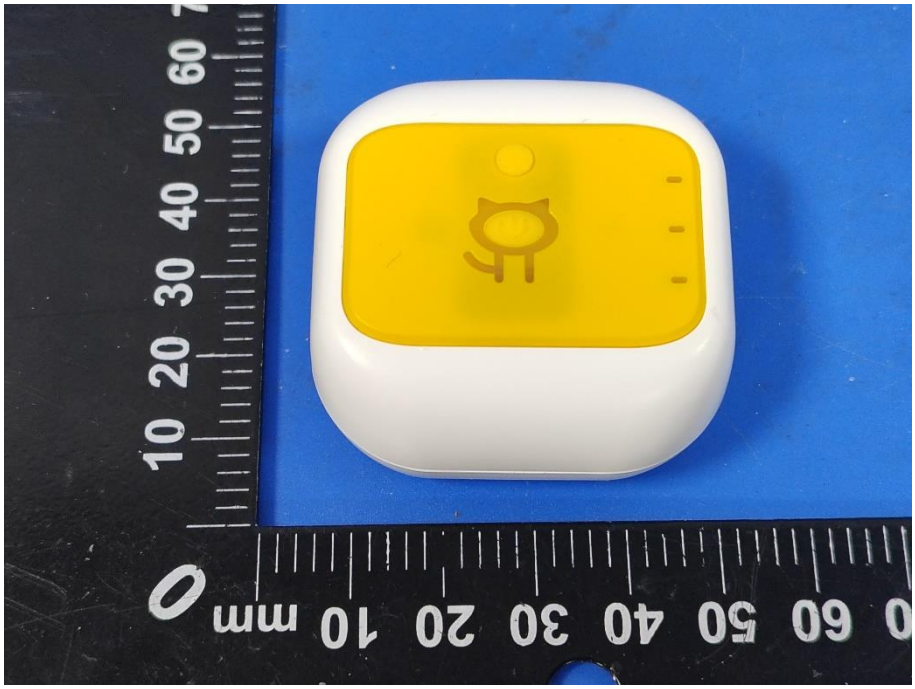
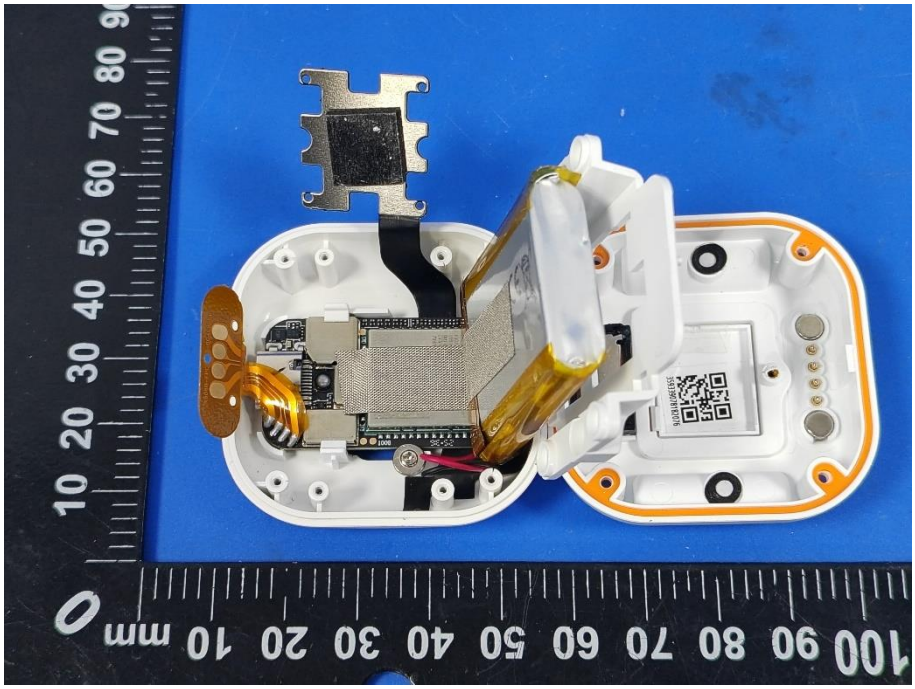


Photo 13

Photo 14



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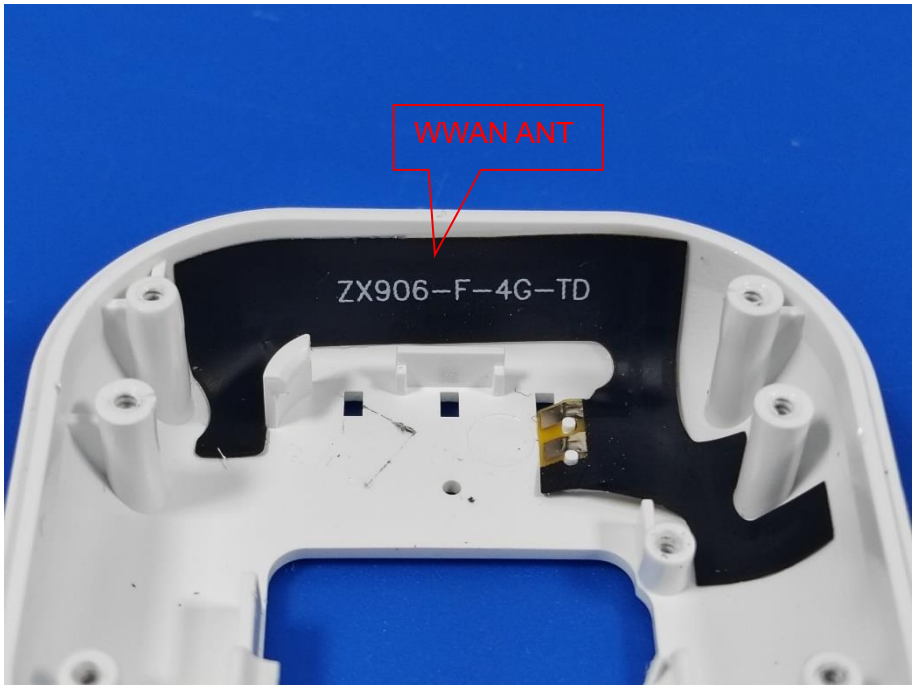

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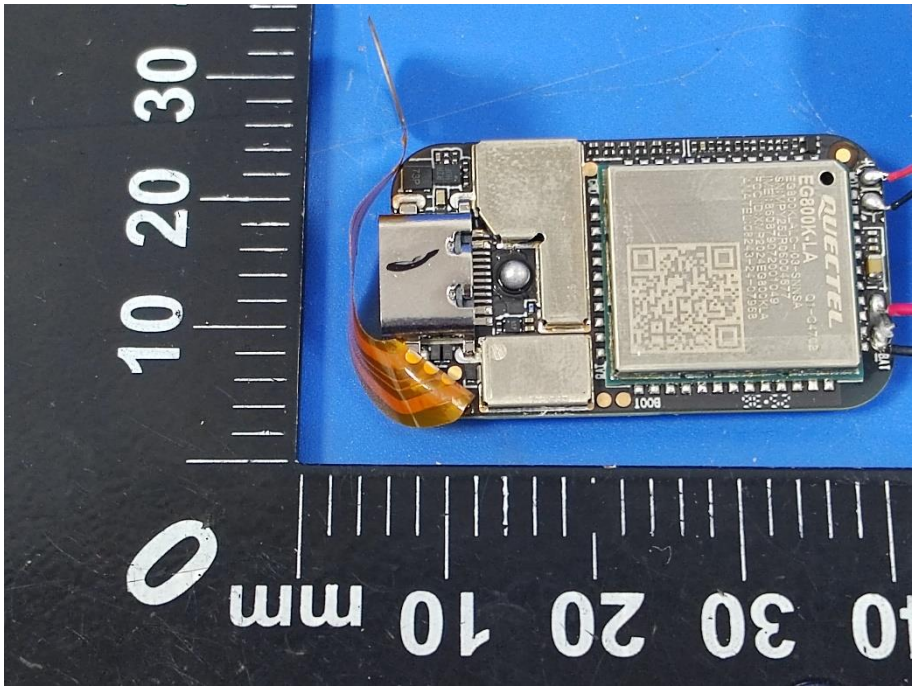

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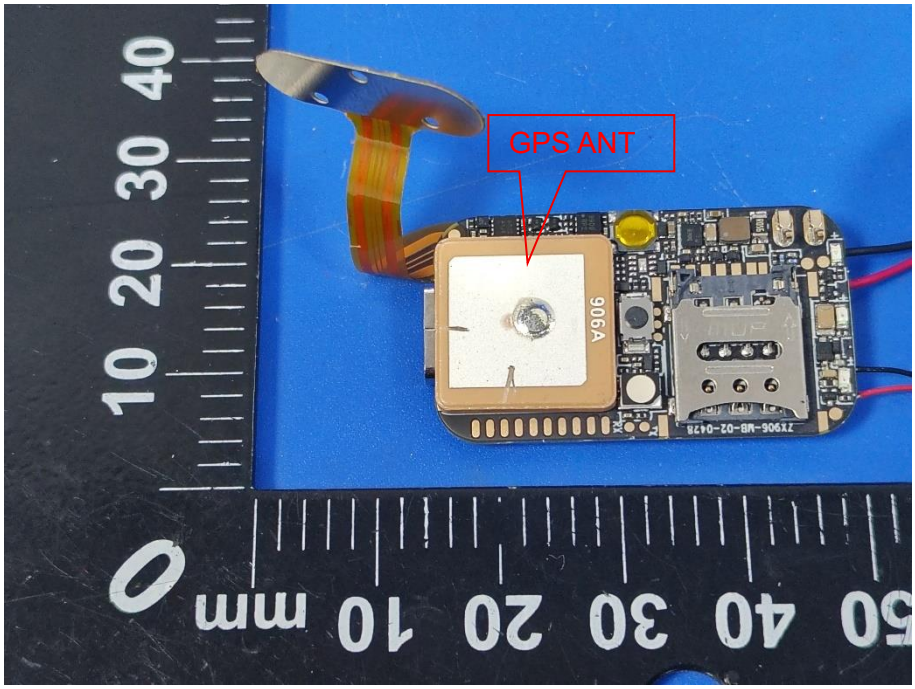

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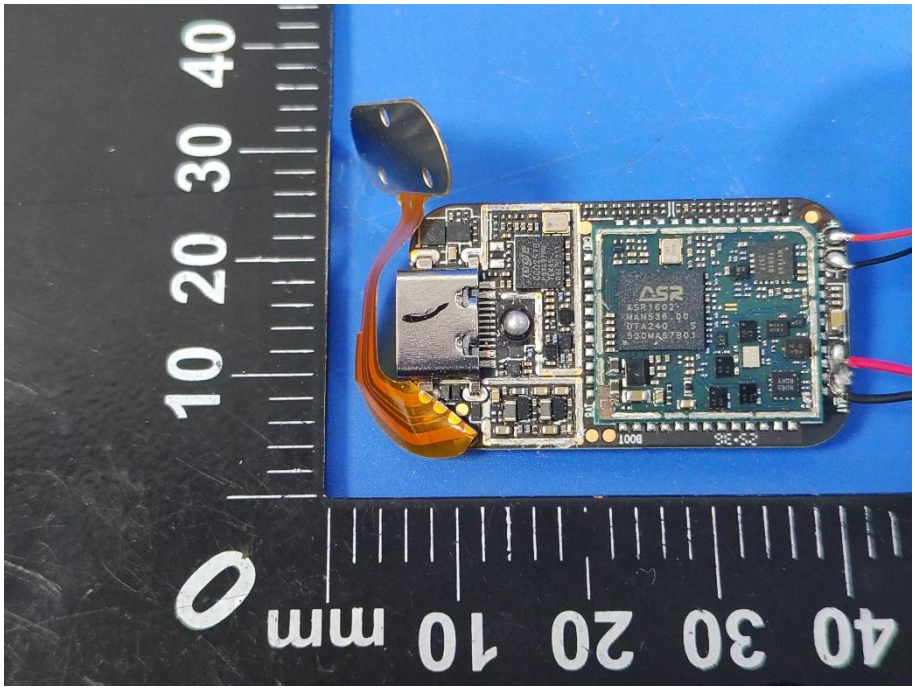

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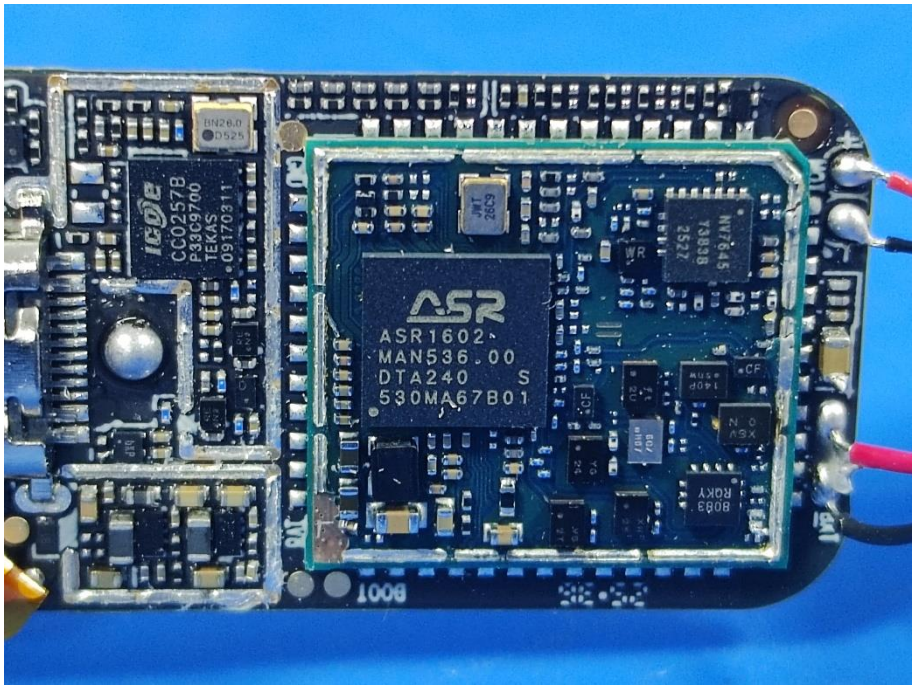

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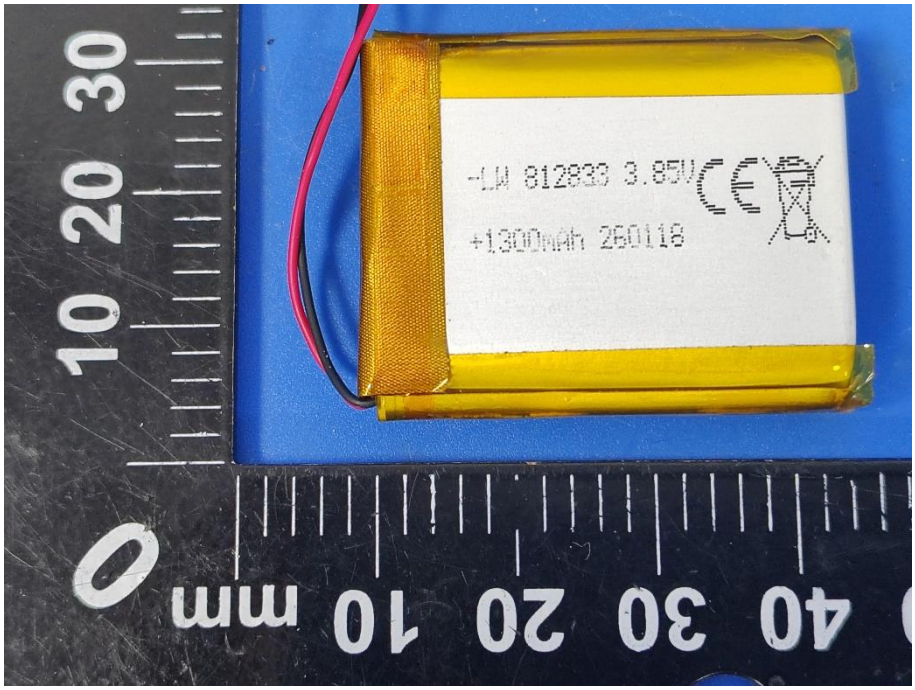

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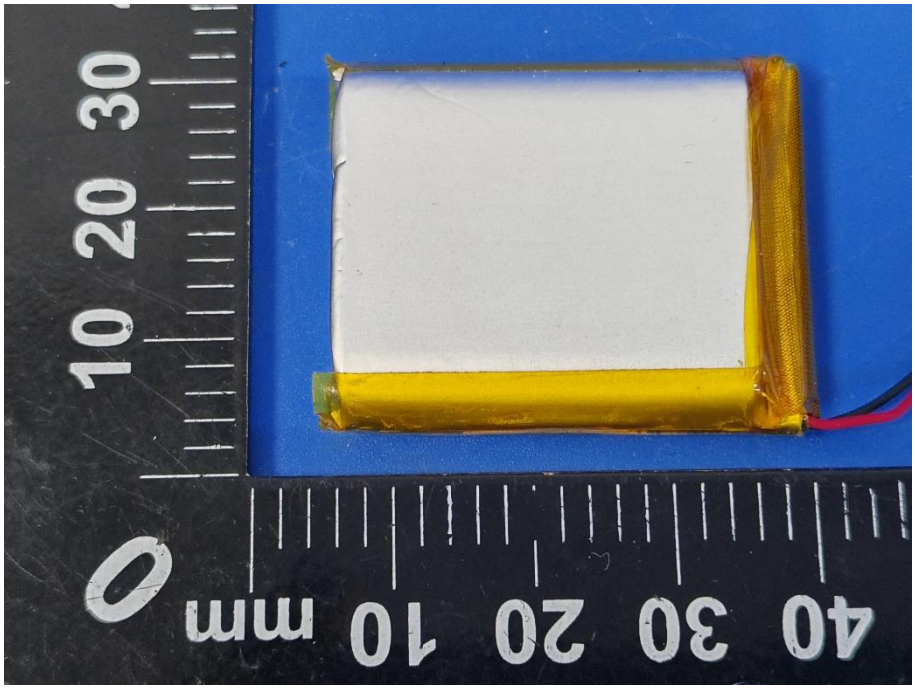

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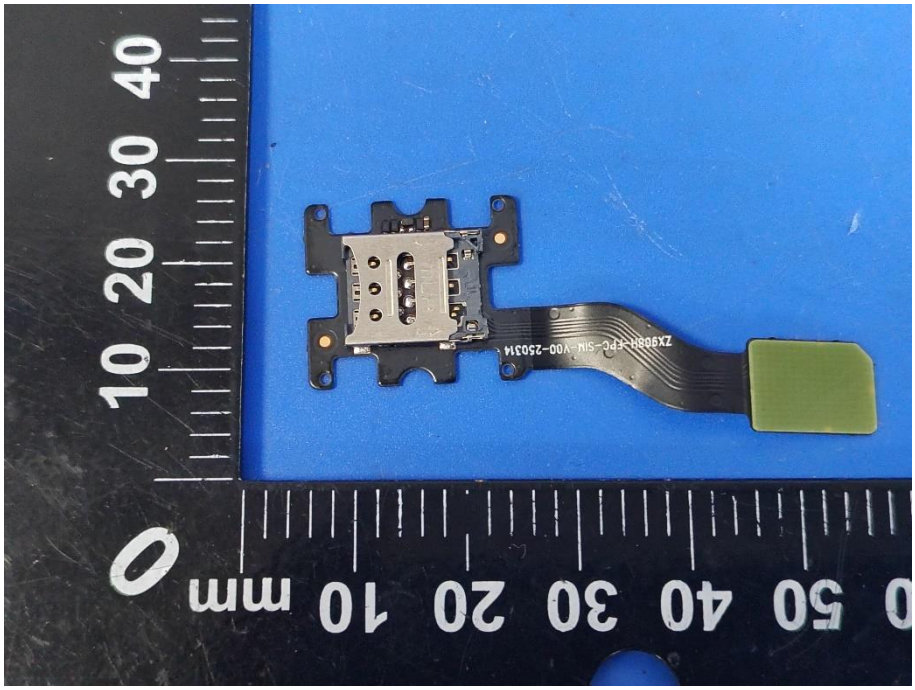

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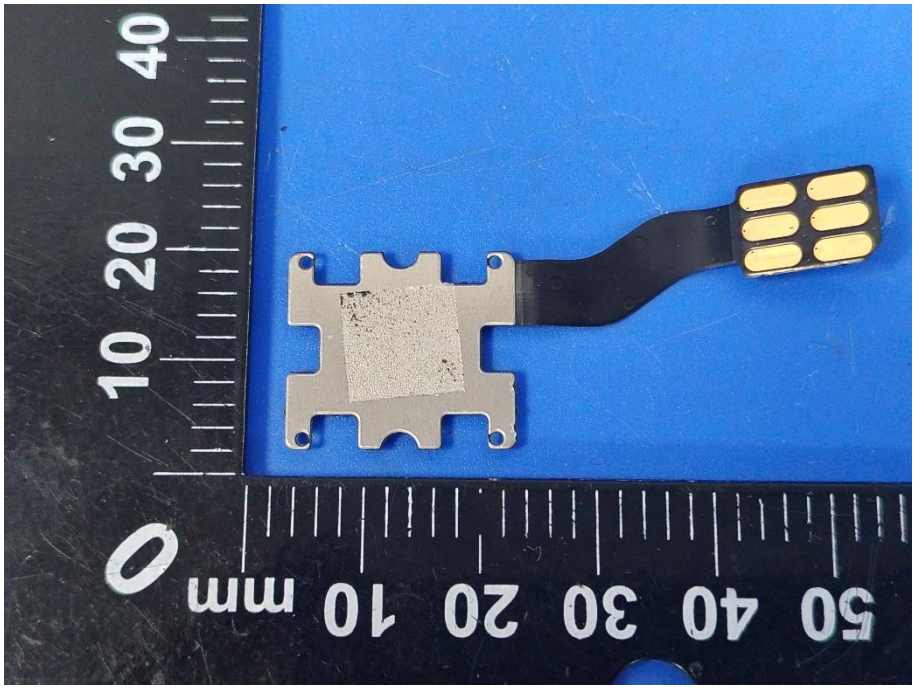

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