

TEST REPORT

Report No.: SHE25060038-01DE

Date: 2025-07-09

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Applicant : XingKuang Innovation Technology (Suzhou) Co., Ltd.
Address of Applicant : 12th Floor, Building 2, No. 1463, Wuzhong Avenue,
Wuzhong District, Suzhou, Jiangsu Province, China

Product Name : SmartCam Health Feeder
Brand Name : Lingwei
Model Name : PF20A
Sample Acquisition Method : Sent by Client

Sample No. : E25060038-01#01
E25060038-01#02

FCC ID : 2BOGG-PF20A
Standards : FCC CFR47 Part 15.247, Subpart C

Date of Receipt : 2025-06-11
Date of Test : 2025-07-04~ 2025-07-08
Date of Issue : 2025-07-09

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:



(Erik Yang)

Reviewed by:



(Jennifer Zhou)

Approved by:



(Authorized signatory: Echo Mu)

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd.
Address	No.1298, Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

Applicant Company Name	XingKuang Innovation Technology (Suzhou) Co., Ltd.
Applicant Company Address	12th Floor, Building 2, No. 1463, Wuzhong Avenue, Wuzhong District, Suzhou, Jiangsu Province, China
Contact Person	Chunlei Deng
Telephone	18951582775
Email	certificate@dreame.tech
Manufacturer Company Name	XingKuang Innovation Technology (Suzhou) Co., Ltd.
Manufacturer Company Address	12th Floor, Building 2, No. 1463, Wuzhong Avenue, Wuzhong District, Suzhou, Jiangsu Province, China
Factory Company Name	Moke Intelligent Technology (Suzhou) Co., Ltd.
Factory Company Address	4th Floor, Building 6, No.1999 Songjia Road, Guoxiang Street, Wuzhong Economic Development Zone, Suzhou, Jiangsu Province, P.R.

1.3 Details of EUT

Product Name	SmartCam Health Feeder
Brand Name	Lingwei
Test Model Name	PF20A
FCC ID	2BOGG-PF20A
Mode of Operation	Bluetooth LE
Frequency Range	2402MHz ~ 2480MHz
Number of Channels	40(at intervals of 2 MHz)
Modulation Type	Bluetooth LE ☒ GFSK 1Mbps ☐ GFSK 2Mbps
RF Output Power	-0.10dBm
Antenna Type	FPC Antenna
Antenna Gain	3.29dBi
Extreme Temperature Range	0°C~ +40°C
Test Voltage	DC 5V 2000mA Supply by Power Adapter (Model:KA12H-0502000US) DC 6V by battery (4*1.5V AA batteries)
Hardware Version	V1.1
Software Version	1027

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RF power setting in TEST SW

AltoBeam WIFI GUI 2.10.124 | 19903 | FwVer:19731 | MAC:4C:60:BA:55:11:13 |
DIR: altobeamWifi ETF V2.10.124 BLE Power level setting 0dBm

Note:

1. The above information was declared by the manufacture.
2. For more details, please refer to the User's manual of the EUT.

Channel List

Channel	Frequency	Channel	Frequency	Channel	Frequency
37	2.402GHz	12	2.430GHz	26	2.458GHz
0	2.404GHz	13	2.432GHz	27	2.460GHz
1	2.406GHz	14	2.434GHz	28	2.462GHz
2	2.408GHz	15	2.436GHz	29	2.464GHz
3	2.410GHz	16	2.438GHz	30	2.466GHz
4	2.412GHz	17	2.440GHz	31	2.468GHz
5	2.414GHz	18	2.442GHz	32	2.470GHz
6	2.416GHz	19	2.444GHz	33	2.472GHz
7	2.418GHz	20	2.446GHz	34	2.474GHz
8	2.420GHz	21	2.448GHz	35	2.476GHz
9	2.422GHz	22	2.450GHz	36	2.478GHz
10	2.424GHz	23	2.452GHz	39	2.480GHz
38	2.426GHz	24	2.454GHz		
11	2.428GHz	25	2.456GHz		

1.4 Test Methodology

47 CFR Part 15, Subpart C	Telecommunication-Radio Frequency Devices-Intentional Radiators
KDB Publication 558074 D01 v05r02	15.247 Meas Guidance.
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

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1.5 Test Summary

Test Item	FCC Rules	Result
Antenna Requirement	FCC Part 15.247(b)(4), Part 15.203	PASS
Maximum peak conducted output power	FCC Part 15.247(b)(3)	PASS
6dB Bandwidth	FCC Part 15.247(a)(2)	PASS
Maximum conducted output power spectral density	FCC Part 15.247(e)	PASS
Conducted Spurious Emission & Authorized-band band-edge	FCC Part 15.247(d)	PASS
Radiated Emission	FCC Part 15.247(d), 15.205, 15.209	PASS
Band Edge (Restricted-band band-edge)	FCC Part 15.247(d), 15.205, 15.209	PASS
Conducted Emission on AC Mains	FCC Part 15.207(a)	PASS

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2 Test Condition

2.1 Environmental conditions

Temperature (°C)	15-35
Humidity (%RH)	30-60
Barometric Pressure (mbar)	860-1060

Note: Actual values will be recorded during the test.

2.2 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020B	MY59260184	2025-06-30	2026-06-29
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2025-06-10	2026-06-09
Signal Generator	Rohde & Schwarz	SMR27	100184	2025-06-30	2026-06-29
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2025-06-09	2026-06-08
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2025-06-09	2026-06-08
V-network	SCHWARZBECK	NSLK 8127	8127-902	2025-06-09	2026-06-08
Attenuator	SCHWARZBECK	VTSD 9561-FN	/	2025-06-09	2026-06-08
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2025-03-24	2027-03-23
Horn Antenna-18G	SCHWARZBECK	BBHA9120D	9120D-1775	2025-06-22	2027-06-21
Loop Antenna	SCHWARZBECK	FMZB 1513	/	2025-06-23	2027-06-22
Horn Antenna-40G	YINGLIAN	LB-180400-KF	N/A	2025-06-22	2027-06-21
Broadband Preamplifier	SCHWARZBECK	BBV 9718	346	2025-06-09	2026-06-08
EMC chamber 9*6*6(L*W*H)	CHANGNING	966	N/A	2025-06-10	2028-06-09
Shielded Enclosure 8*5*4(L*W*H)	CHANGNING	854	N/A	2025-06-10	2028-06-09
Test Software	BL	BL410_E	Version:2.1.1.436	N/A	N/A
Test Software	BL	BL410_R	Version:2.1.1.409	N/A	N/A

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2.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI. The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95.45%.

Parameter		Uncertainty
Antenna Port Conducted Emission	< 1GHz	± 1.5 dB
	> 1GHz	± 1.5 dB
Radiated Emission	9KHz – 30MHz	± 3.42 dB
	30 MHz – 1GHz	± 5.01 dB
	> 1GHz	± 5.21 dB
Conducted Emission on AC Mains	150kHz-30MHz	± 2.68 dB
Occupied Channel Bandwidth		± 5 %
Maximum Conducted Output Power		± 0.64 dB
Maximum Conducted Output Power Spectral Density		± 1.18 dB

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3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software to control EUT work in continuous transmitting and receiving mode. Select test channel as below:

Channel	Frequency
The lowest channel(CH37)	2402MHz
The middle channel(CH17)	2440MHz
The Highest channel(CH39)	2480MHz

The basic operation modes are:

- A. On
1. BLE mode

a. Transmitting

i. Low Channel

ii. Middle Channel

iii. High Channel

b. Receiving
2. Normal working with Bluetooth on
- B. Standby
- C. Off

3.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model Name	Serial No.
Power Supply	KEYU	KA12H-0502000US	Input: AC 100-240V 50/60Hz 0.4A Max; Output: DC 5V 2000mA
Laptop 1	HP	HP ZHAN 66 Pro G1	5CD7438R1J
Laptop 2	Lenovo	TP00083A	PF-0PRDGN
USB Cable	N/A	N/A	1.00m Unshielded

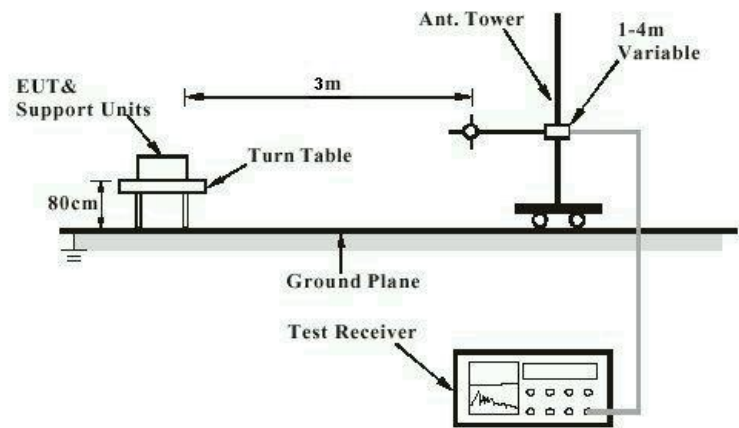
3.3 Support Software

Description	Manufacturer	Software Name
Software	N/A	AltoBeam WIFI GUI 2.10.124 19903 FwVer:19731 MAC:4C:60:BA:55:11:13 DIR: altobeamWifi_ETF_V2.10.124

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3.4 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Transmitter Test

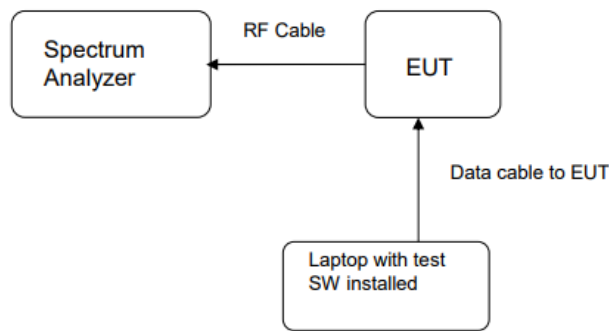
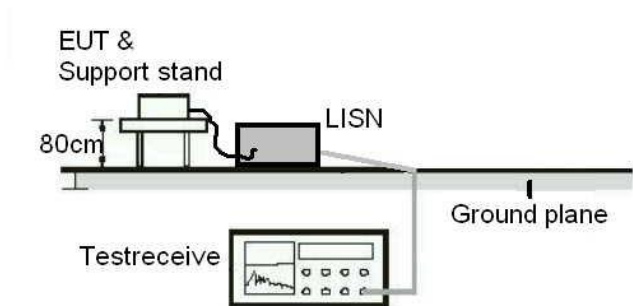


Diagram of Measurement Configuration for Conduction Test



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4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard	:	FCC Part 15.247(b)(4), Part 15.203
Requirement	:	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. In addition, If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

According to the manufacturer declaration, an antenna with a directional gain of 3.29dBi. The antenna is FPC antenna with no possibility of replacement with a non-approved antenna by the end-user.

Therefore, the EUT is considered to comply with this provision.

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4.1.2 Maximum peak conducted output power

RESULT:

PASS

Test standard : FCC Part 15.247(b)(3)

Requirement : ANSI C63.10-2013 clause 11.9.1.1,
KDB 558074 D01 v05r02, Clause 8.3.1

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

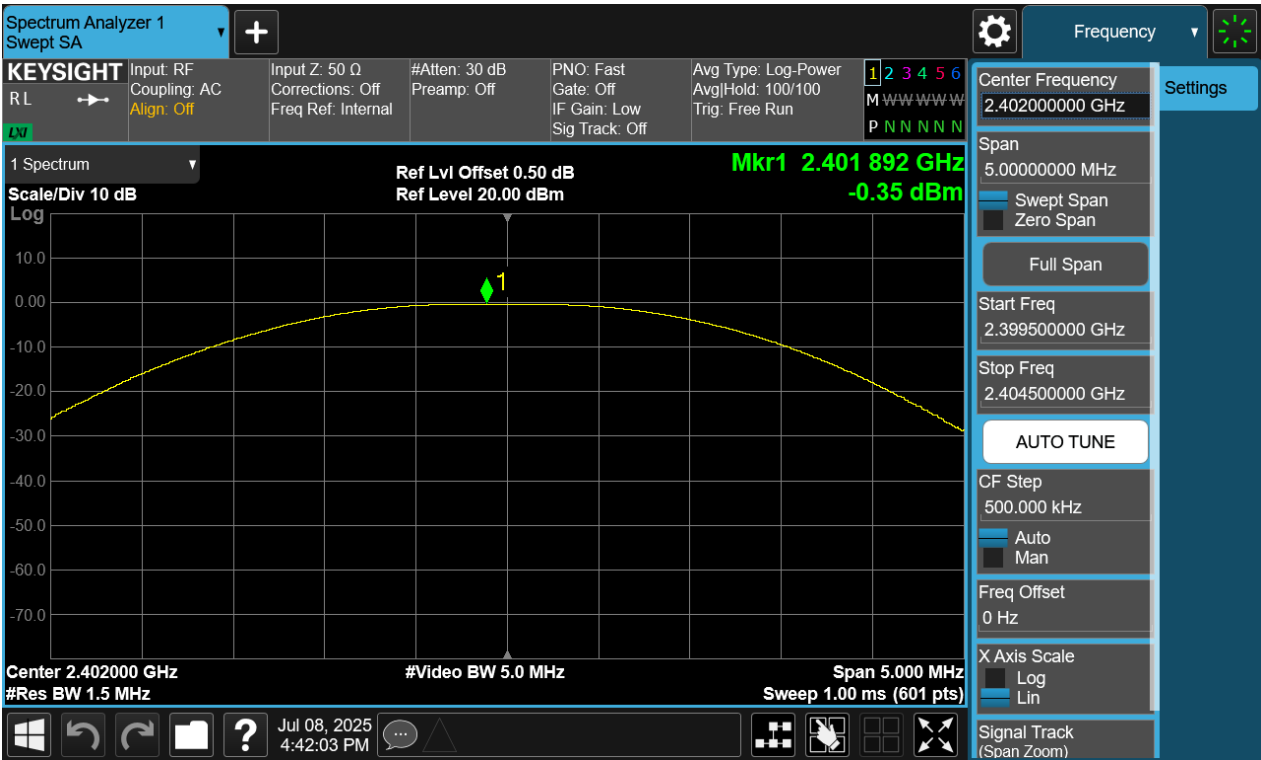
Ambient temperature : 24.8°C

Relative humidity : 44%

Table 1: Maximum peak conducted output power

Test Mode	Test Channel (MHz)	Maximum peak conducted output power		Limit (W)
		(dBm)	(mW)	
BLE	2402	-0.35	0.923	< 1
	2440	-0.21	0.953	
	2480	-0.10	0.977	

Figure 1: Peak Output Power, 2402MHz



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Figure 2: Peak Output Power, 2440MHz



Figure 3: Peak Output Power, 2480MHz



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4.1.3 6dB Bandwidth

RESULT:

PASS

Test standard

Requirement

Kind of test site

: FCC Part 15.247(a)(2)

: ANSI C63.10-2013 clause 11.8.1,
KDB 558074 D01 v05r02, Clause 8.2

: Shielded room

Test setup

Test Channel

Operation Mode

Ambient temperature

Relative humidity

: Low/Middle/High

: A.1.a

: 24.8°C

: 44%

Table 2: 6dB Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	Limit
BLE	2402	0.6748	≥0.5 MHz
	2440	0.6438	
	2480	0.6584	

Figure 4: 6dB Bandwidth, 2402MHz



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Figure 5: 6dB Bandwidth, 2440MHz

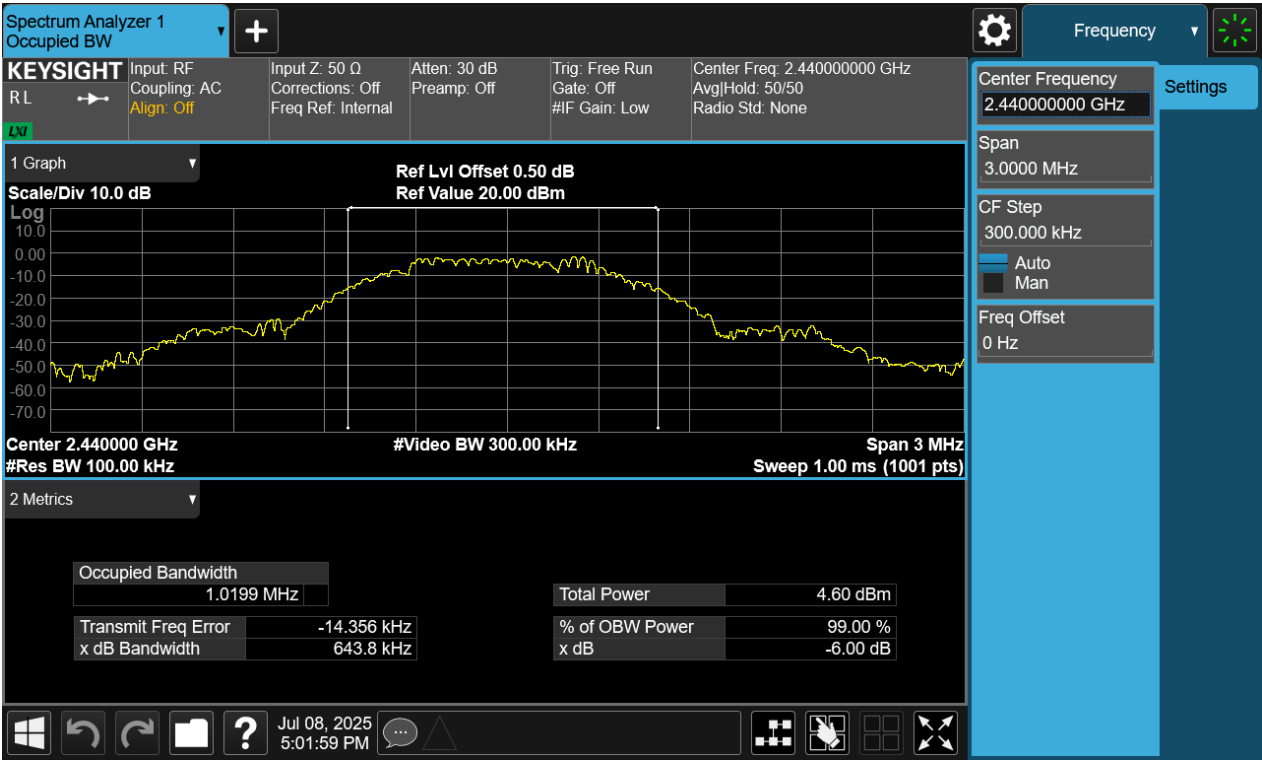


Figure 6: 6dB Bandwidth, 2480MHz



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4.1.4 Maximum conducted output power spectral density

RESULT:

PASS

Test standard : FCC Part 15.247(e)

Requirement : ANSI C63.10-2013 clause 11.10.2,
KDB 558074 D01 v05r02, Clause 8.4

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

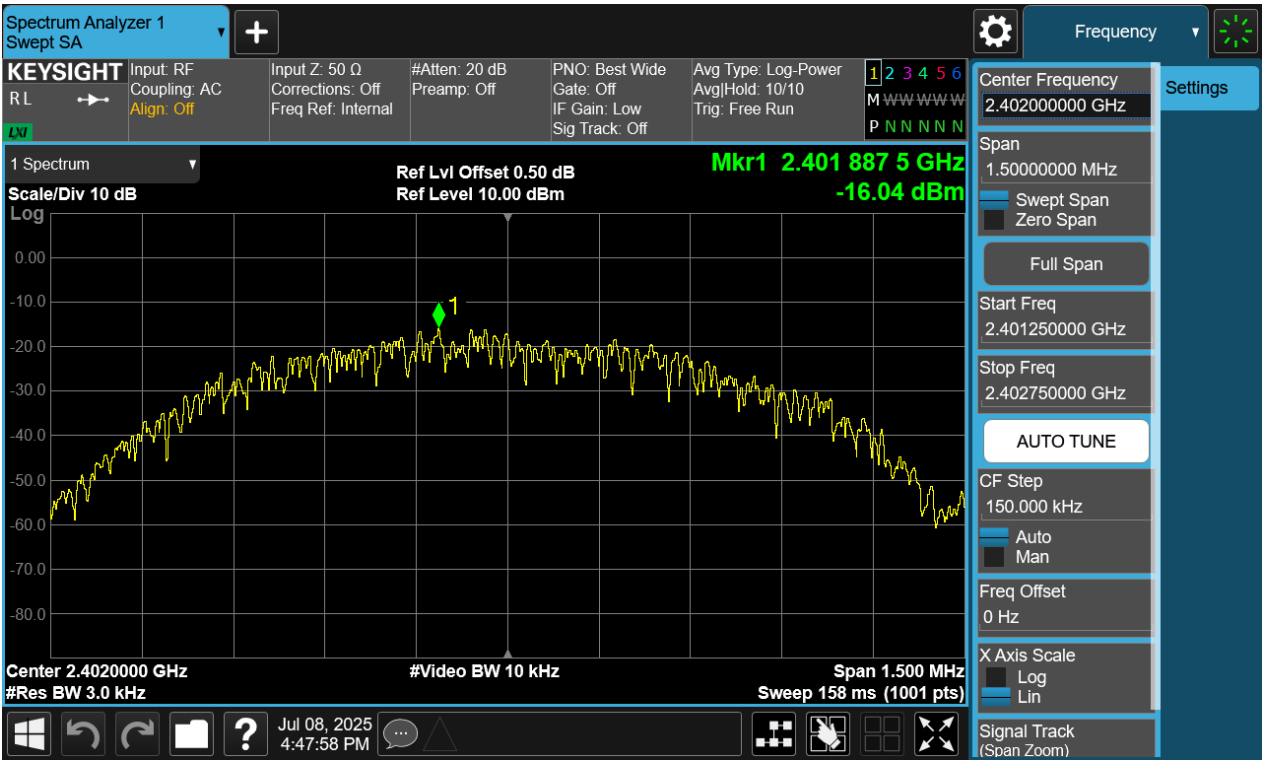
Ambient temperature : 24.8°C

Relative humidity : 44%

Table 3: Maximum conducted output power spectral density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
BLE	2402	-16.04	8
	2440	-16.00	
	2480	-15.90	

Figure 7: Power Spectral Density, 2402MHz



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Figure 8: Power Spectral Density, 2440MHz

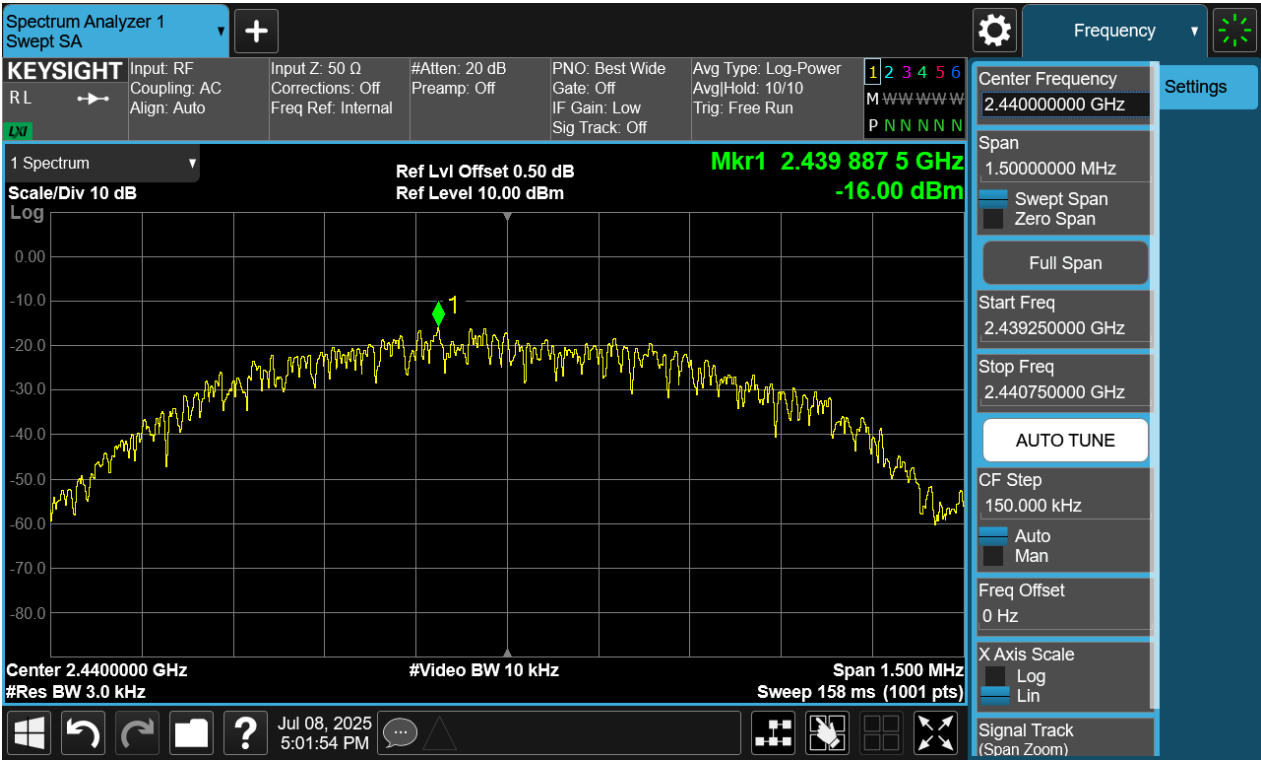
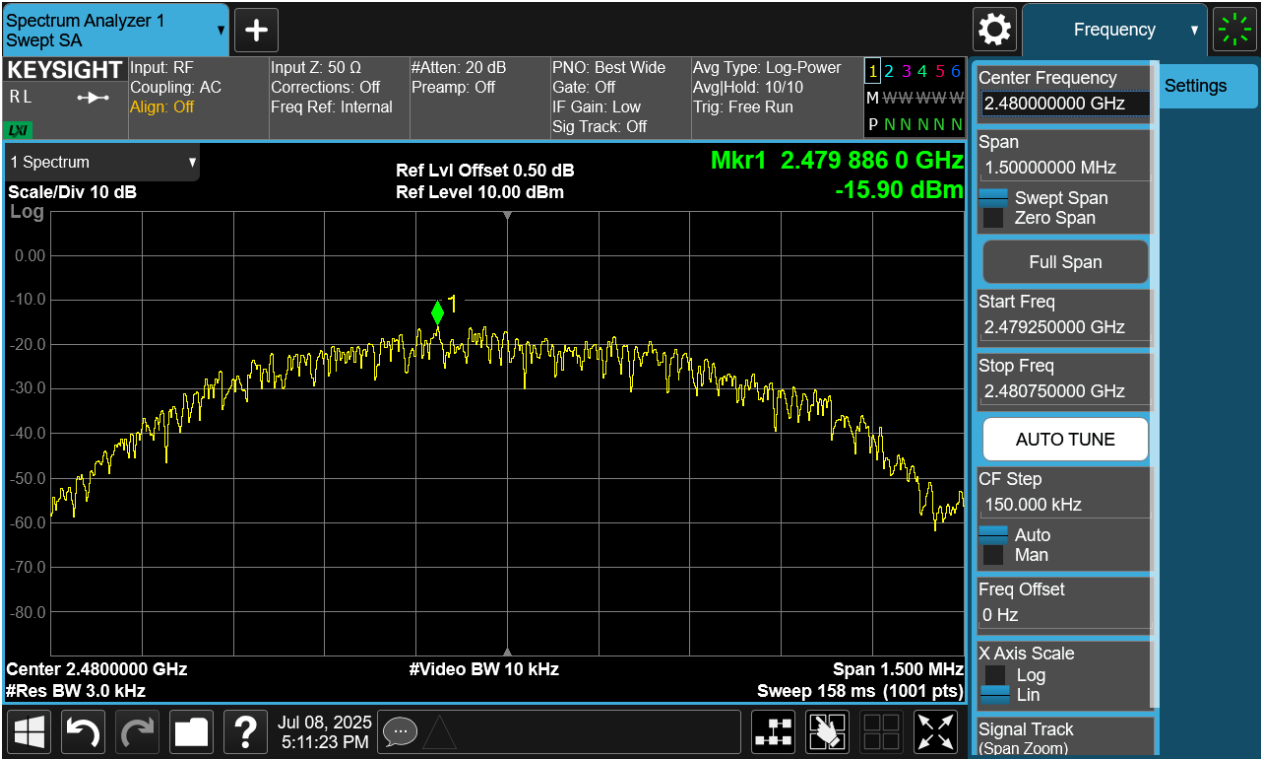


Figure 9: Power Spectral Density, 2480MHz



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4.1.5 Conducted Spurious Emission & Authorized-band band-edge

RESULT:

PASS

Test standard

: FCC Part 15.247(d)

Requirement

: ANSI C63.10-2013, Clause 11.11.1(a)

KDB 558074 D01 v05r02, Clause 8.5

Kind of test site

: Shielded room

Test setup

Test Channel

: Low/Middle/High for spurious, Low/High for Band

Edge

Operation Mode

: A.1.a

Ambient temperature

: 24.8°C

Relative humidity

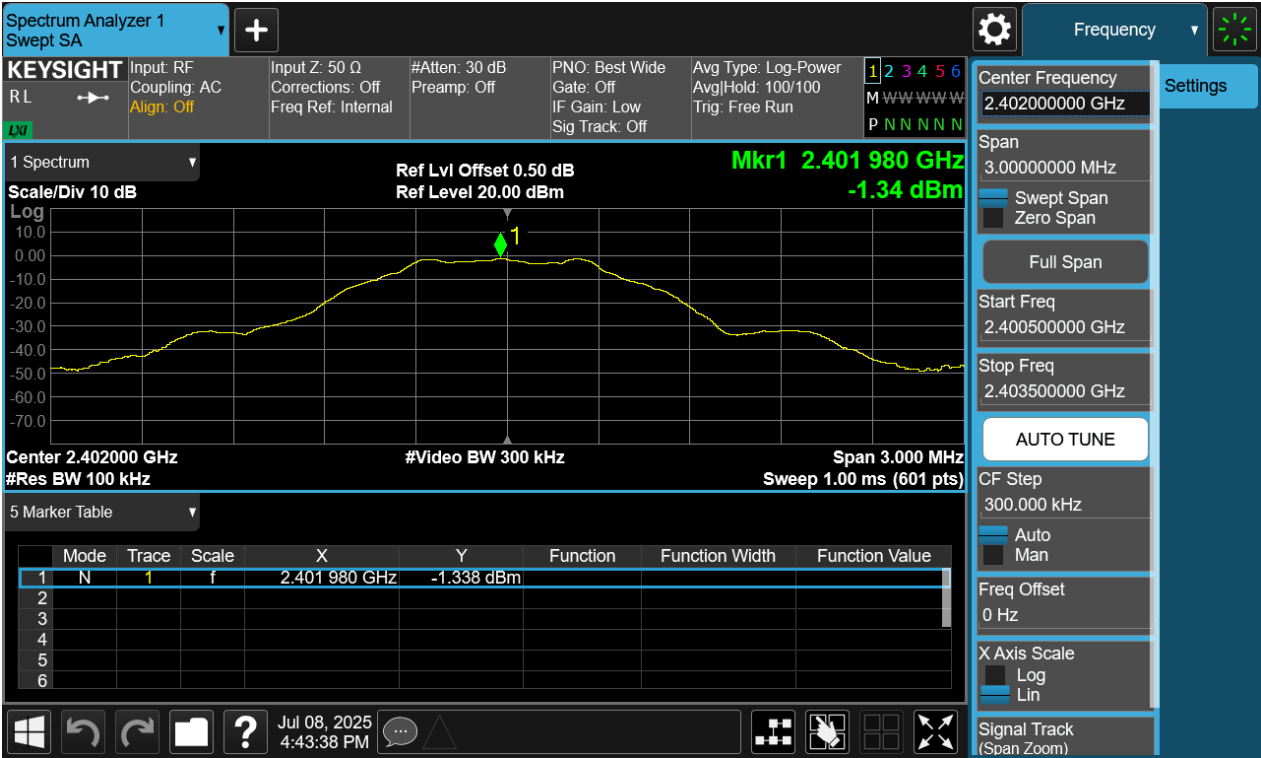
: 44%

For details refer to following test plot.

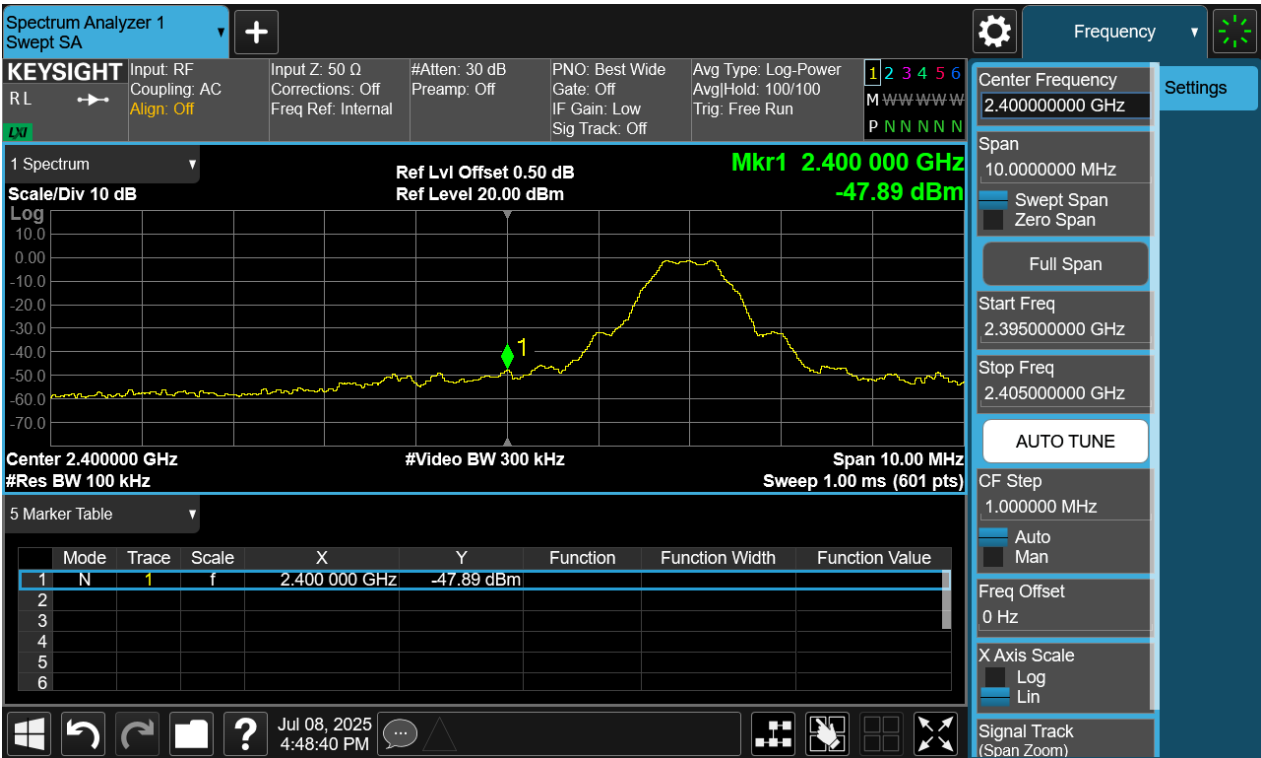
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Figure 10: Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, BLE Carrier Level



Band Edge



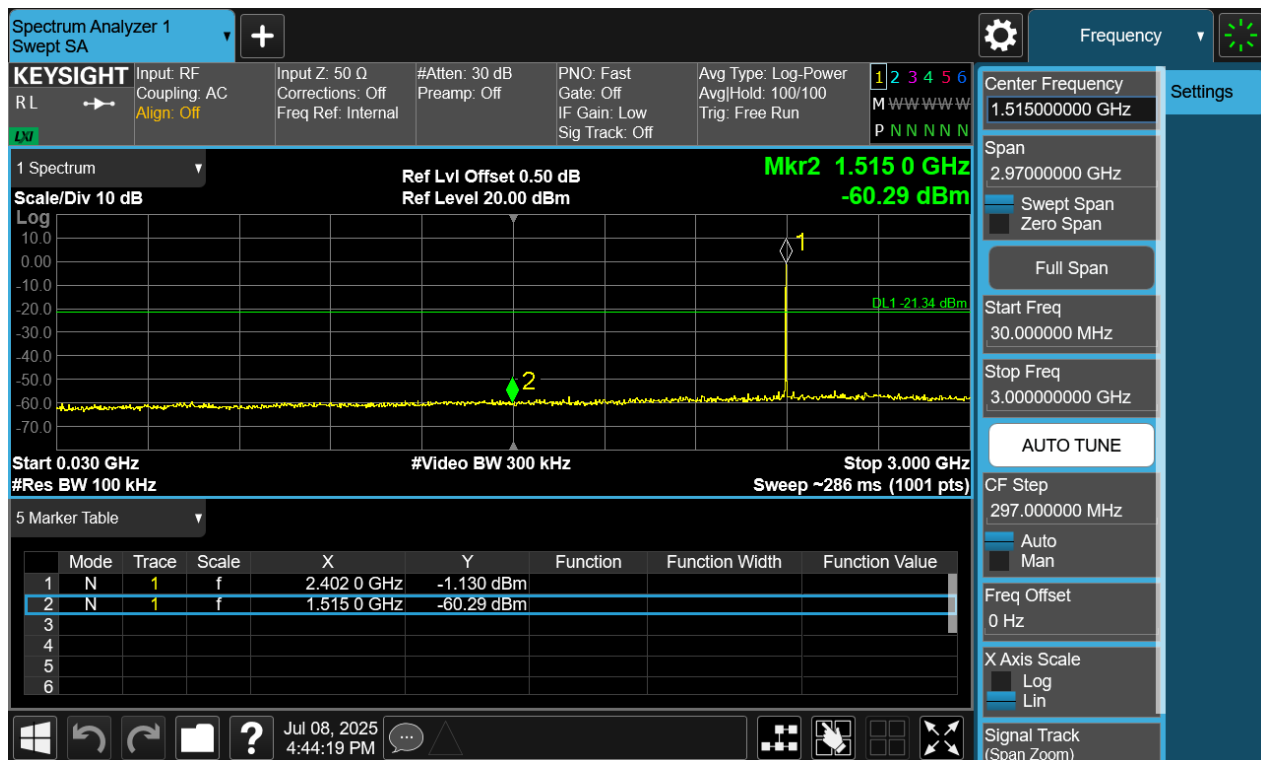
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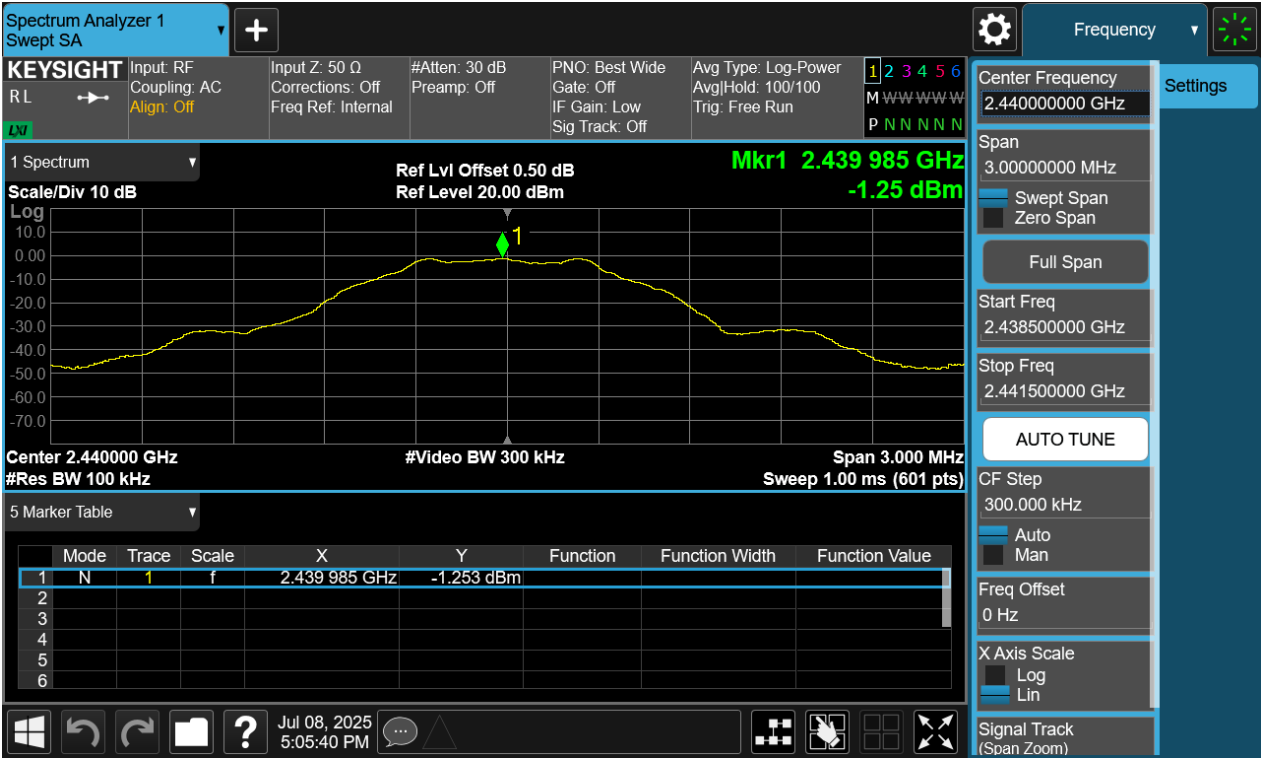
Conducted spurious emissions 30MHz-25GHz



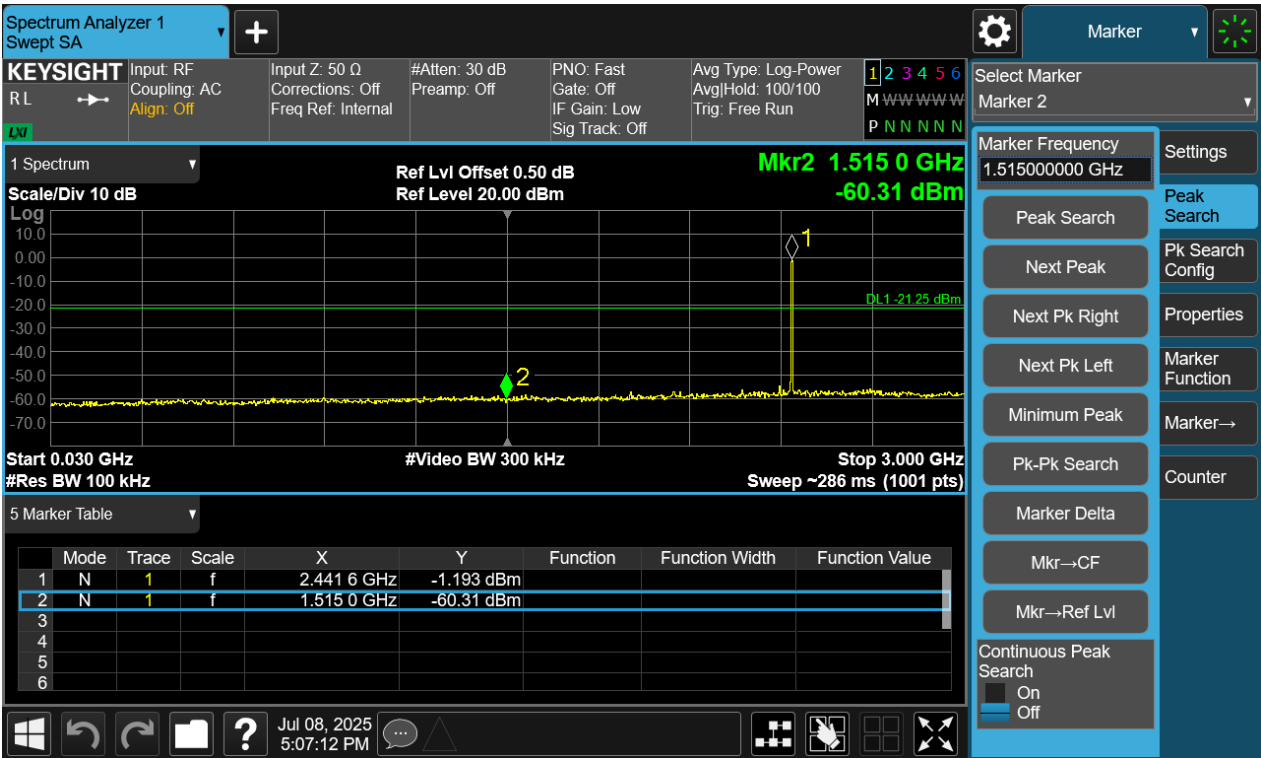
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Figure 11: Conducted Spurious Emission & Authorized-band band-edge, 2440MHz, BLE Carrier Level



Conducted spurious emissions 30MHz-25GHz



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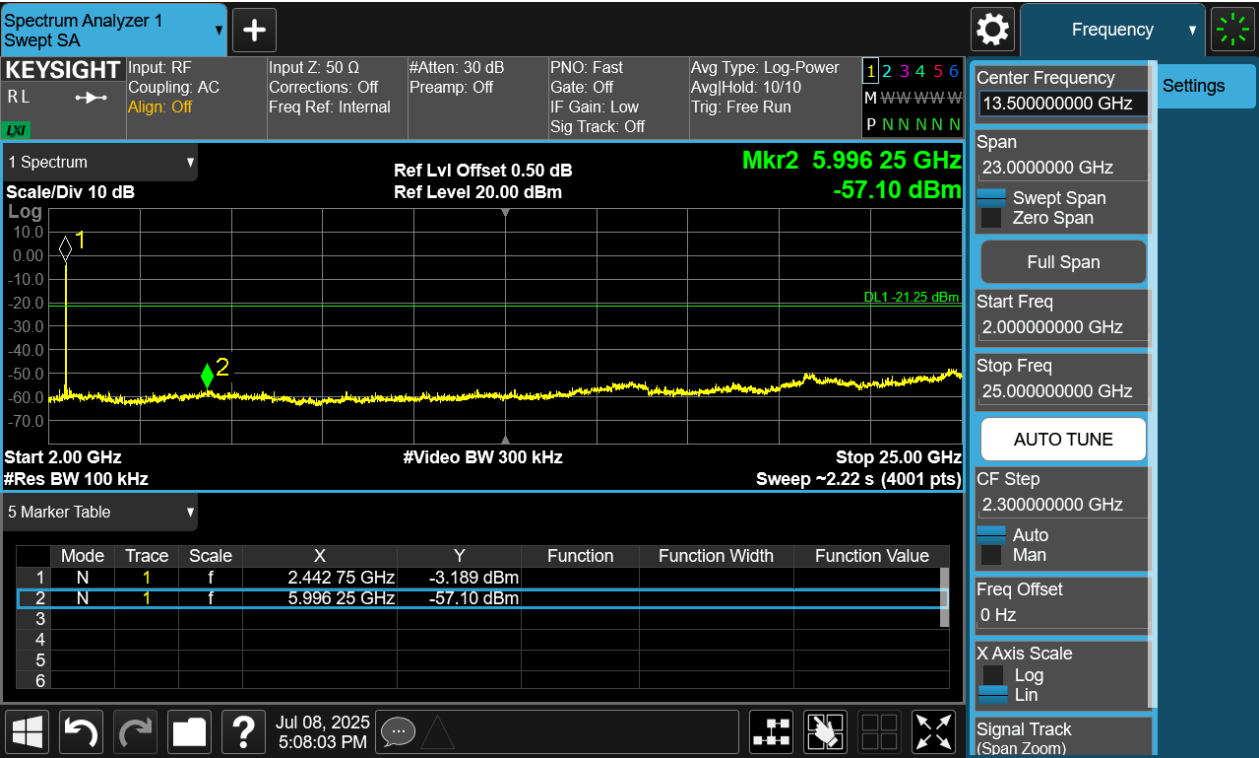
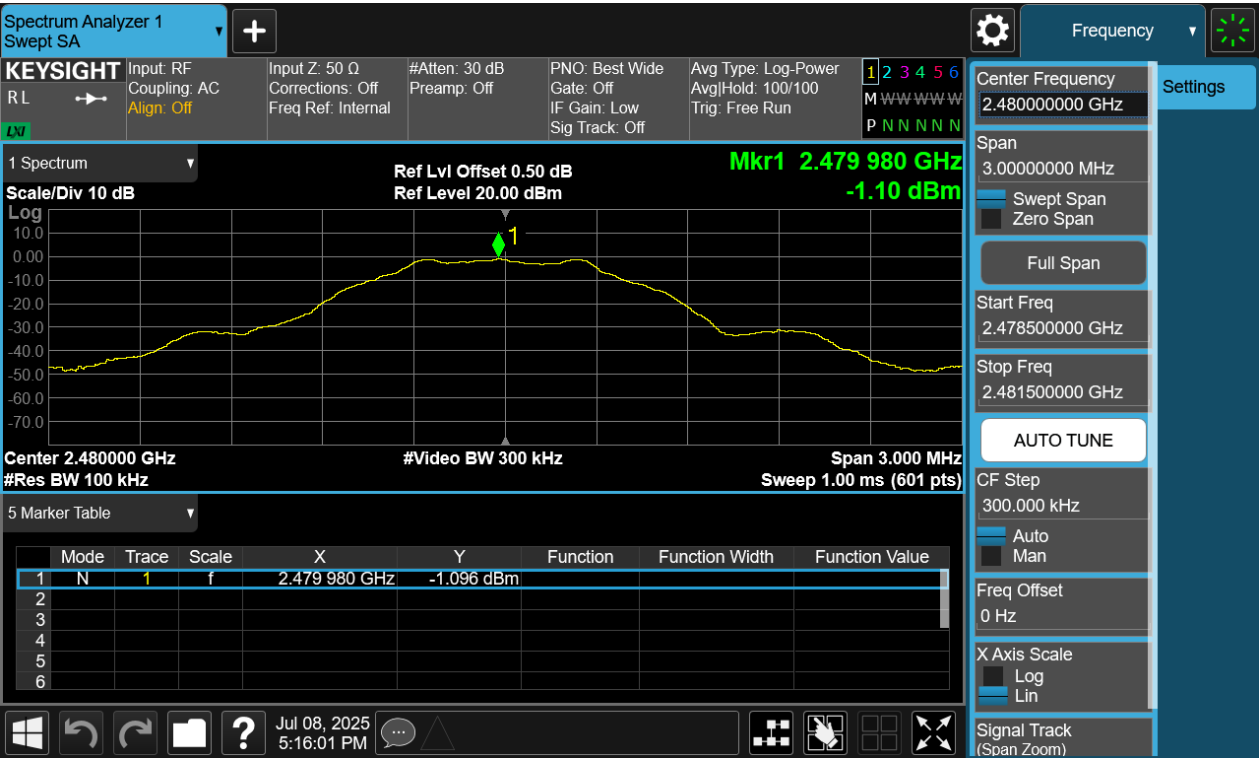


Figure 12: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, BLE Carrier Level



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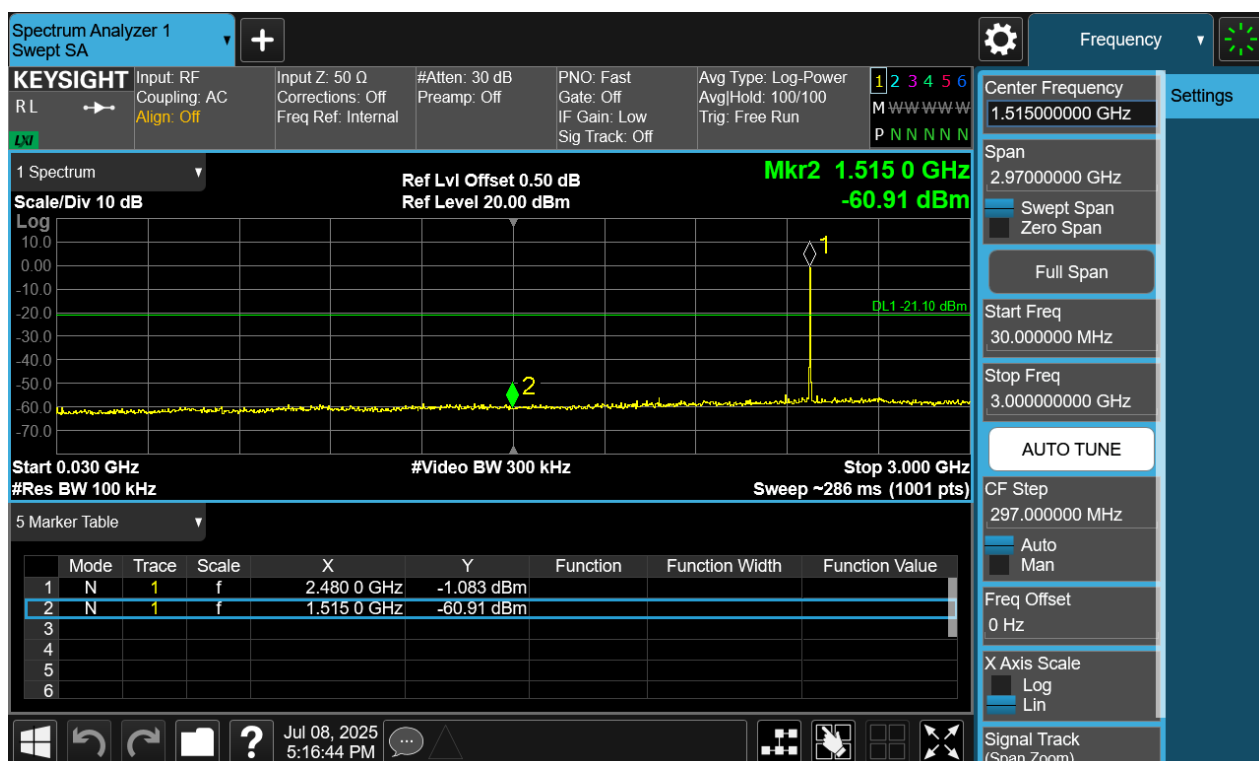
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Band Edge



Conducted spurious emissions 30MHz-25GHz

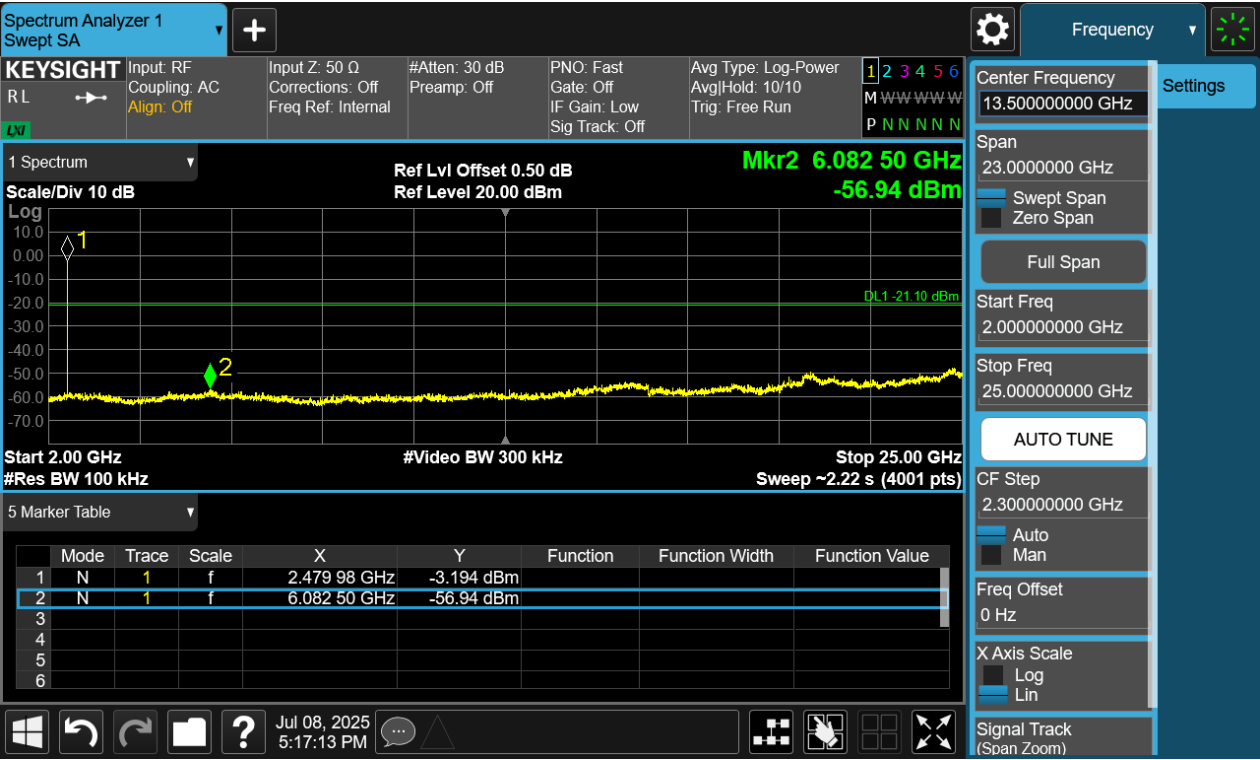


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4.1.6 Radiated Emission

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209
Requirement	: ANSI C63.10-2013 clause 11.12, KDB 558074 D01 v05r02, Clause 8.6
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A
Ambient temperature	: 24.8°C ~25.2°C
Relative humidity	: 45%~49%

Notes

Test plots please refer to the annex document "SHE25060038-01DE DATA BLE-TX EXHIBIT A".

- 1. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.*
- 2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.*
- 3. All test modes had been pre-tested, but only the BLE at high channel of below 1 GHz (Supply by Power Adapter) is the worst case and recorded in the report.*
- 4. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.*

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4.1.7 Band Edge (Restricted-band band-edge)

RESULT:

PASS

Test standard

: FCC Part 15.247(d), 15.205, 15.209

Requirement

: ANSI C63.10-2013 clause 11.13,
KDB 558074 D01 v05r02, Clause 8.7

Kind of test site

: 3m Semi-Anechoic Chamber

Test setup

Test Channel

: Low/Middle/High

Operation Mode

: A.1

Ambient temperature

: 24.8°C

Relative humidity

: 45%

Notes

Test plots please refer to the annex document “SHE25060038-01DE DATA BLE-TX EXHIBIT A”.

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4.2 Mains Emissions

4.2.1 Conducted Emission on AC Mains

RESULT: **PASS**

Test standard	: FCC Part 15.207(a)
Requirement	: ANSI C63.10-2013, Clause 6.2
Kind of test site	: Shielded room

Test setup

Input Voltage	: DC 5V supply by Power adapter (which received AC 120V, 60Hz)
Operation Mode	: A.1.a
Earthing	: Disconnected to GND
Ambient temperature	: 23.1°C
Relative humidity	: 40%

For details refer to following test plot.

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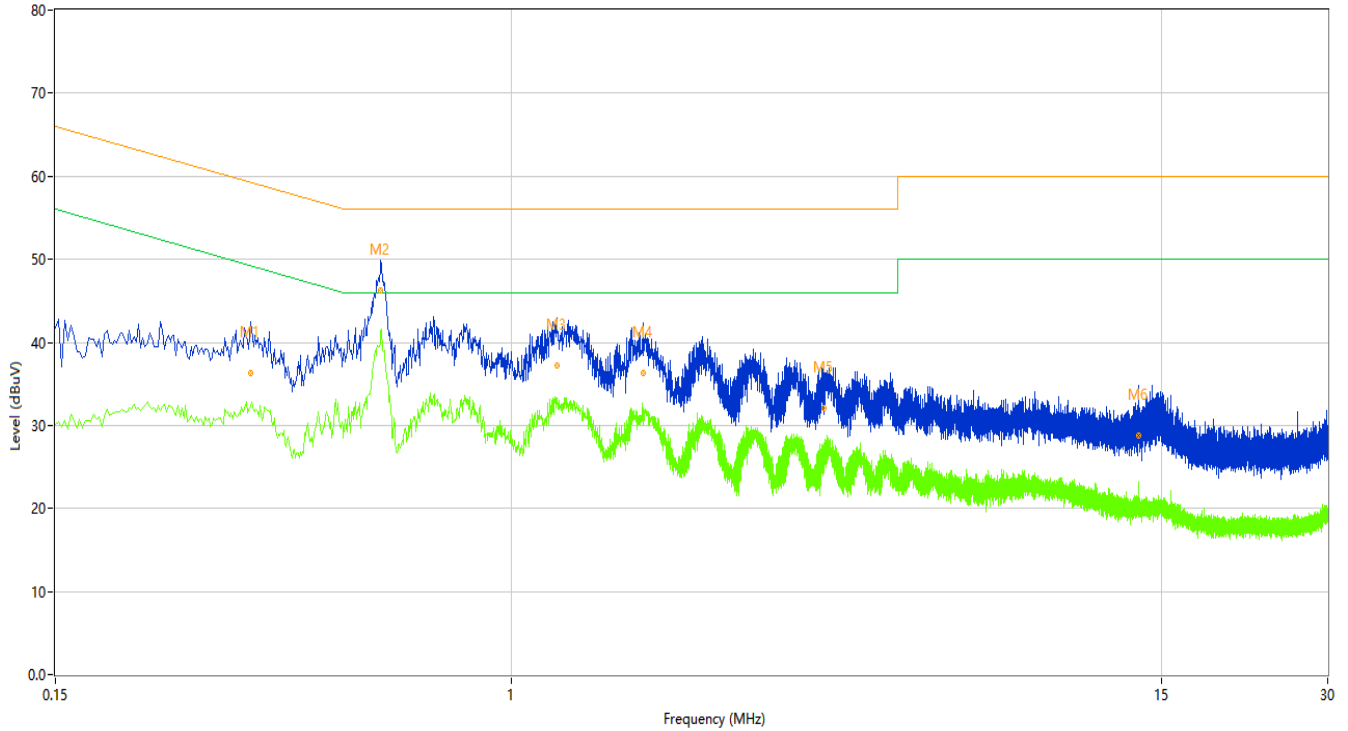
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Note: The all configurations were tested respectively, but only the worst data (at high channel) shown here.

Figure 13: Conducted Emission on AC Mains, L Phase

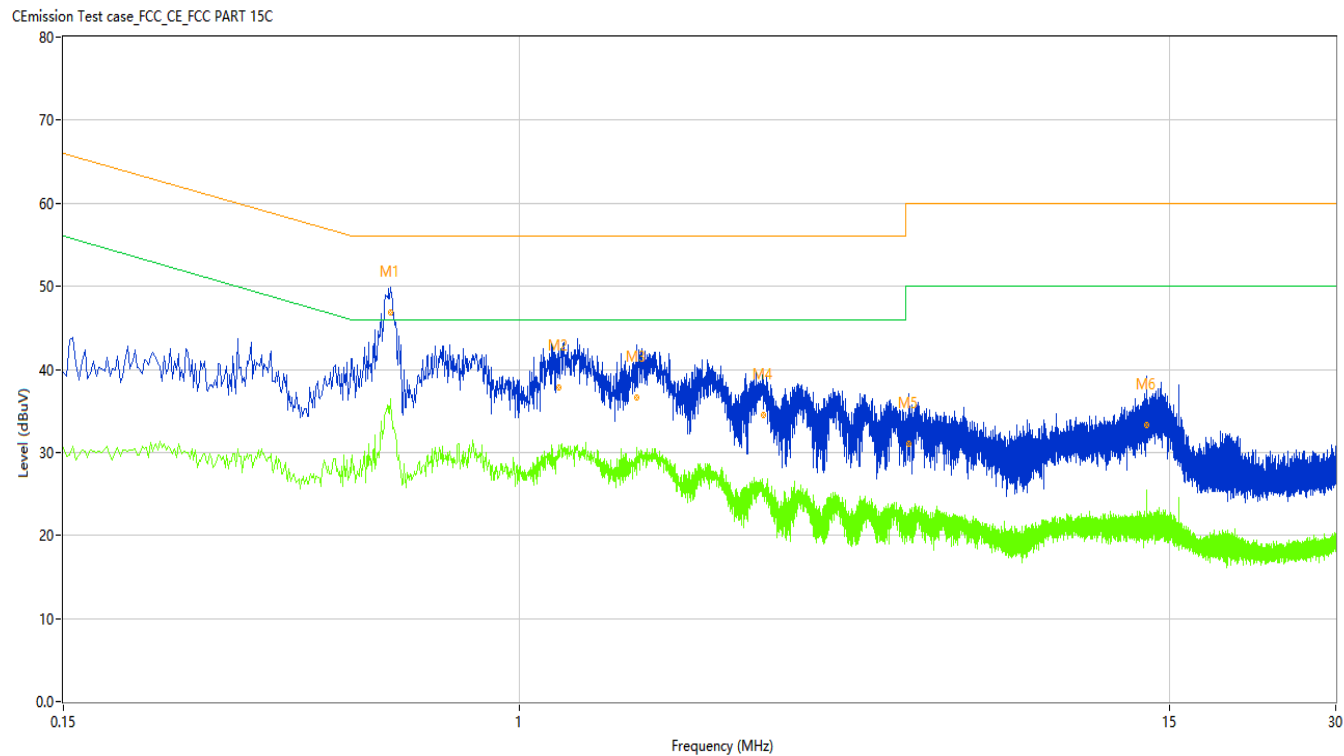
CEmission Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.338	41.07	10.21	59.25	18.18	Peak	L	Pass
1*	0.338	36.33	10.21	59.25	22.92	QP	L	Pass
1**	0.338	32.20	10.21	49.25	17.05	AV	L	Pass
2	0.582	49.99	10.20	56.00	6.01	Peak	L	Pass
2*	0.582	46.24	10.20	56.00	9.76	QP	L	Pass
2**	0.582	41.41	10.20	46.00	4.59	AV	L	Pass
3	1.210	41.81	10.00	56.00	14.19	Peak	L	Pass
3*	1.210	37.26	10.00	56.00	18.74	QP	L	Pass
3**	1.210	33.27	10.00	46.00	12.73	AV	L	Pass
4	1.736	40.89	10.07	56.00	15.11	Peak	L	Pass
4*	1.736	36.36	10.07	56.00	19.64	QP	L	Pass
4**	1.736	32.10	10.07	46.00	13.90	AV	L	Pass
5	3.682	36.96	10.14	56.00	19.04	Peak	L	Pass
5*	3.682	32.08	10.14	56.00	23.92	QP	L	Pass
5**	3.682	27.92	10.14	46.00	18.08	AV	L	Pass
6	13.670	36.38	10.52	60.00	23.62	Peak	L	Pass
6*	13.670	28.72	10.52	60.00	31.28	QP	L	Pass
6**	13.670	23.16	10.52	50.00	26.84	AV	L	Pass

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Figure 14: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.586	51.25	10.06	56.00	4.75	Peak	N	Pass
1*	0.586	46.79	10.06	56.00	9.21	QP	N	Pass
1**	0.586	36.42	10.06	46.00	9.58	AV	N	Pass
2	1.182	43.55	9.84	56.00	12.45	Peak	N	Pass
2*	1.182	37.78	9.84	56.00	18.22	QP	N	Pass
2**	1.182	30.26	9.84	46.00	15.74	AV	N	Pass
3	1.636	42.21	9.93	56.00	13.79	Peak	N	Pass
3*	1.636	36.60	9.93	56.00	19.40	QP	N	Pass
3**	1.636	30.53	9.93	46.00	15.47	AV	N	Pass
4	2.766	39.01	10.08	56.00	16.99	Peak	N	Pass
4*	2.766	34.54	10.08	56.00	21.46	QP	N	Pass
4**	2.766	26.13	10.08	46.00	19.87	AV	N	Pass
5	5.070	36.45	10.28	60.00	23.55	Peak	N	Pass
5*	5.070	30.97	10.28	60.00	29.03	QP	N	Pass
5**	5.070	21.38	10.28	50.00	28.62	AV	N	Pass
6	13.674	40.75	10.43	60.00	19.25	Peak	N	Pass
6*	13.674	33.33	10.43	60.00	26.67	QP	N	Pass
6**	13.674	24.45	10.43	50.00	25.55	AV	N	Pass

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5 Appendixes

5.1 Photographs of the Sample



All of the sample



Front of the sample

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Rear of the sample



Left of the sample

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Right of the sample



Top of the sample

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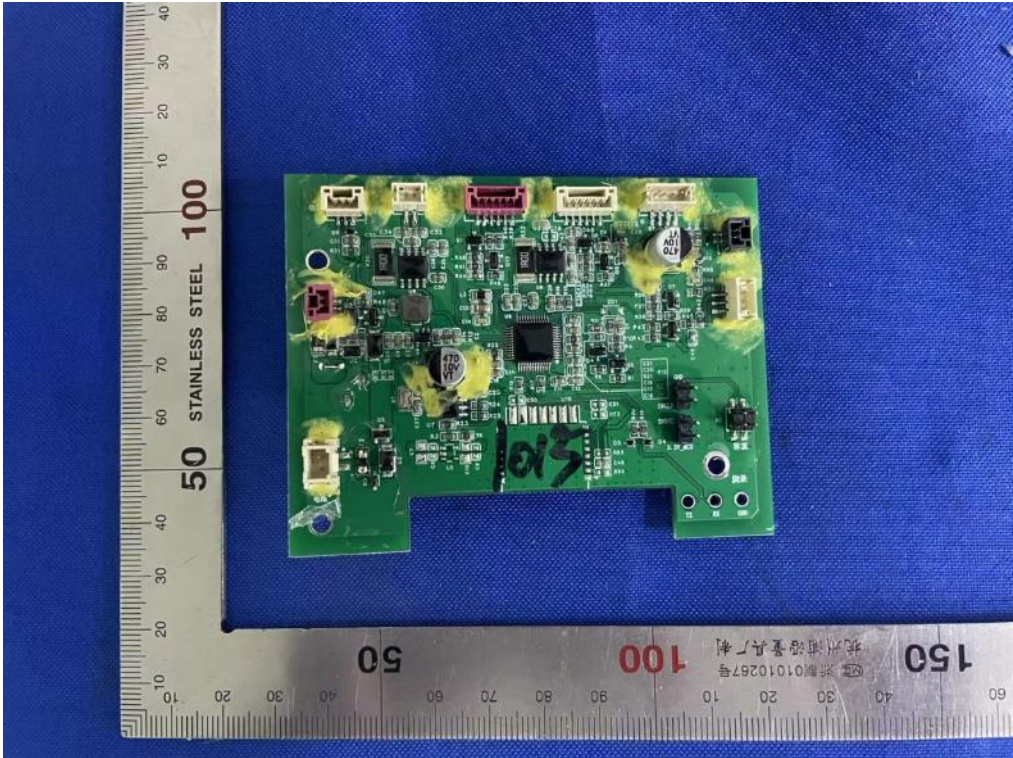


Bottom of the sample

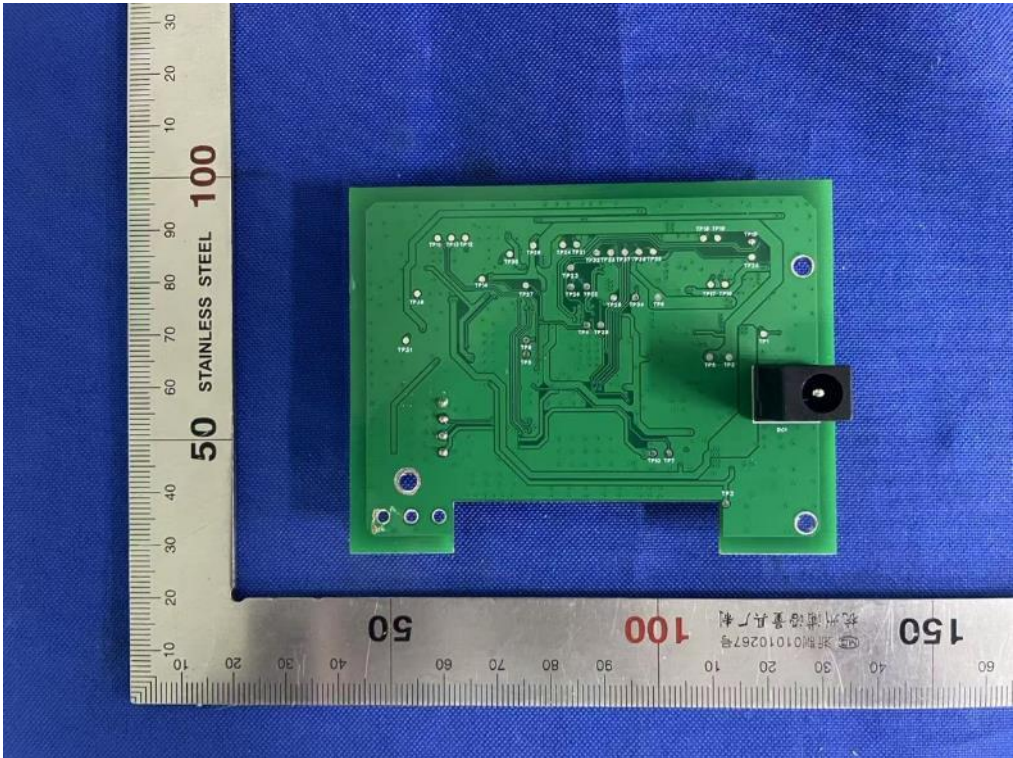


Open-1 of the sample

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Internal-1 of the sample



Internal-2 of the sample

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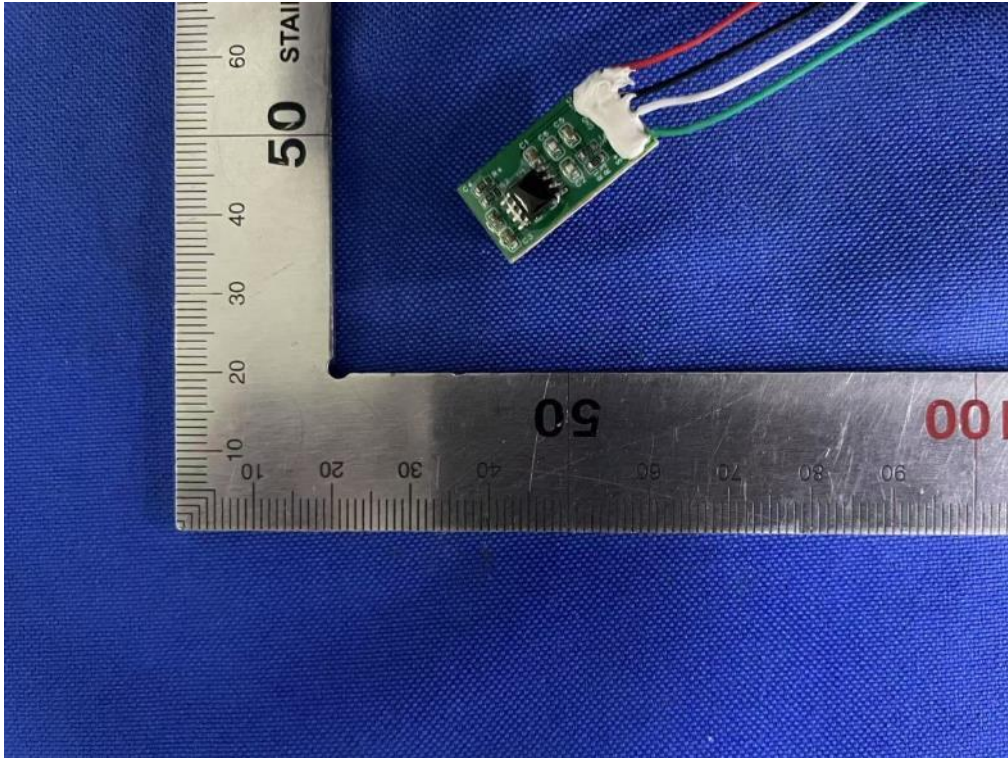
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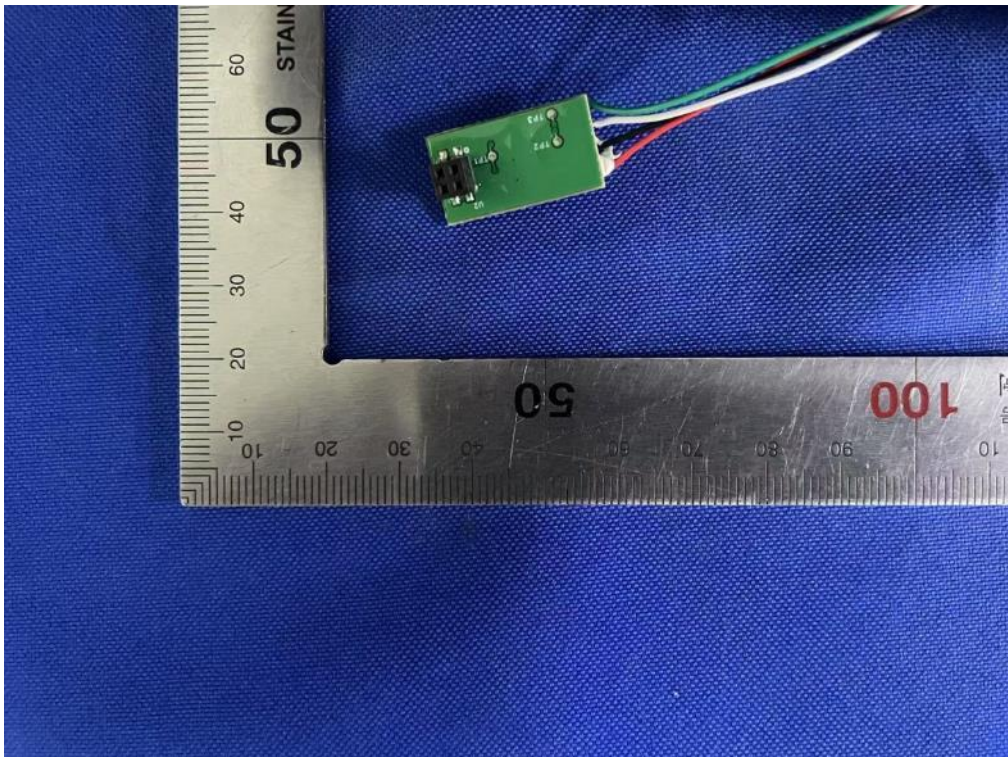
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Internal-3 of the sample



Internal-4 of the sample

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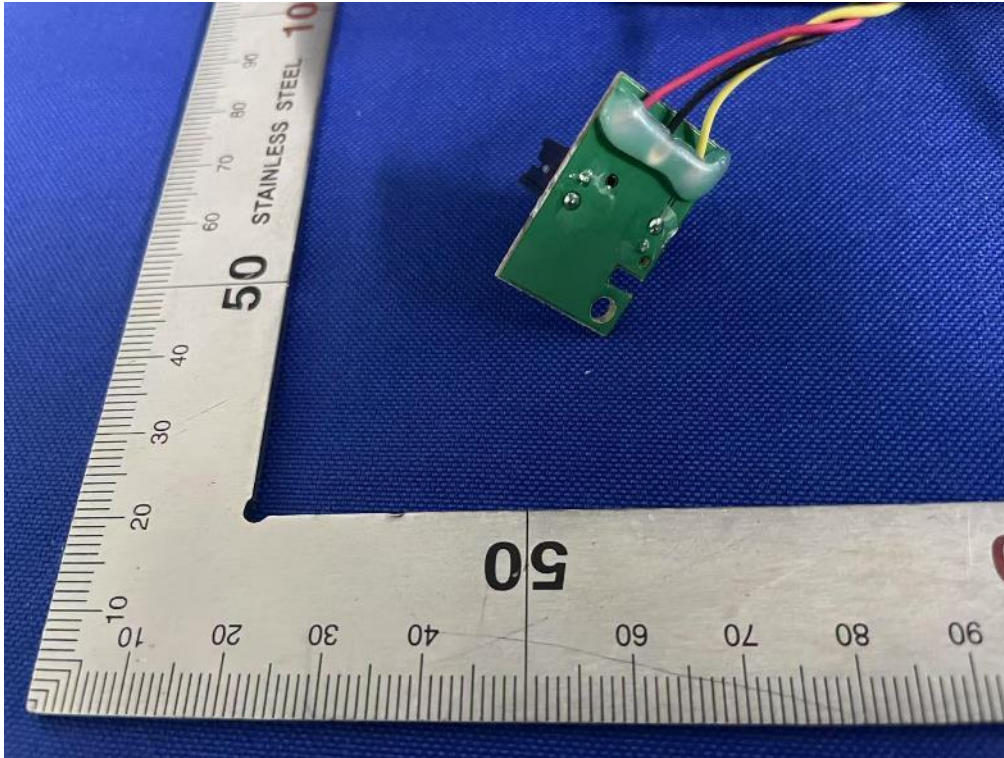
Report No.:

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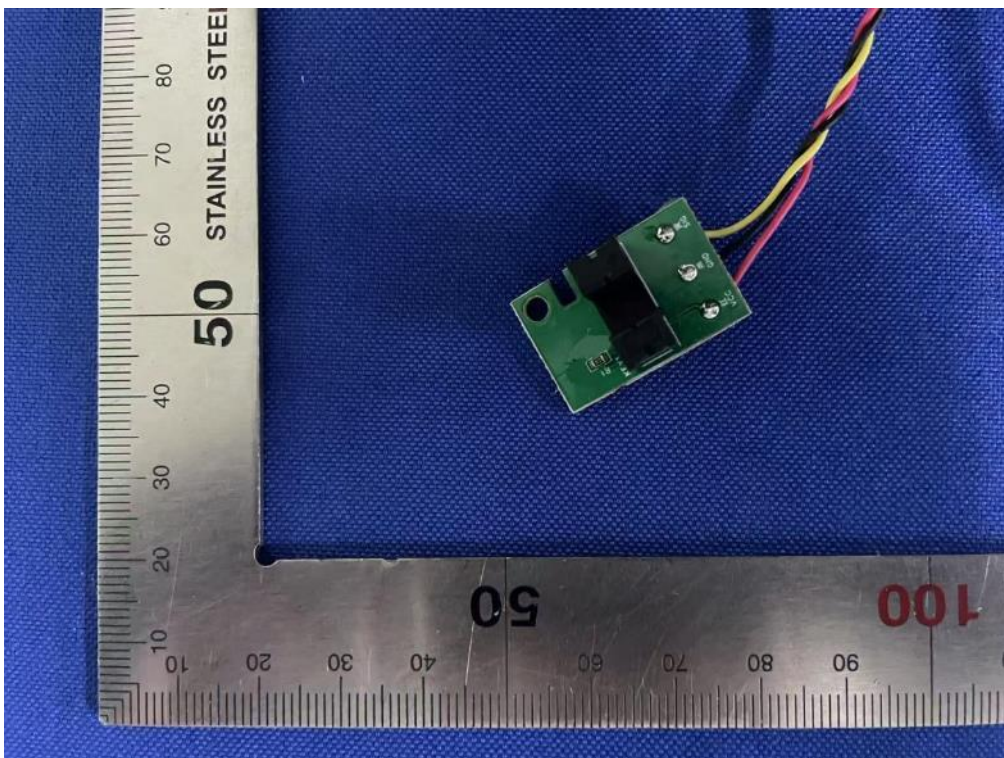
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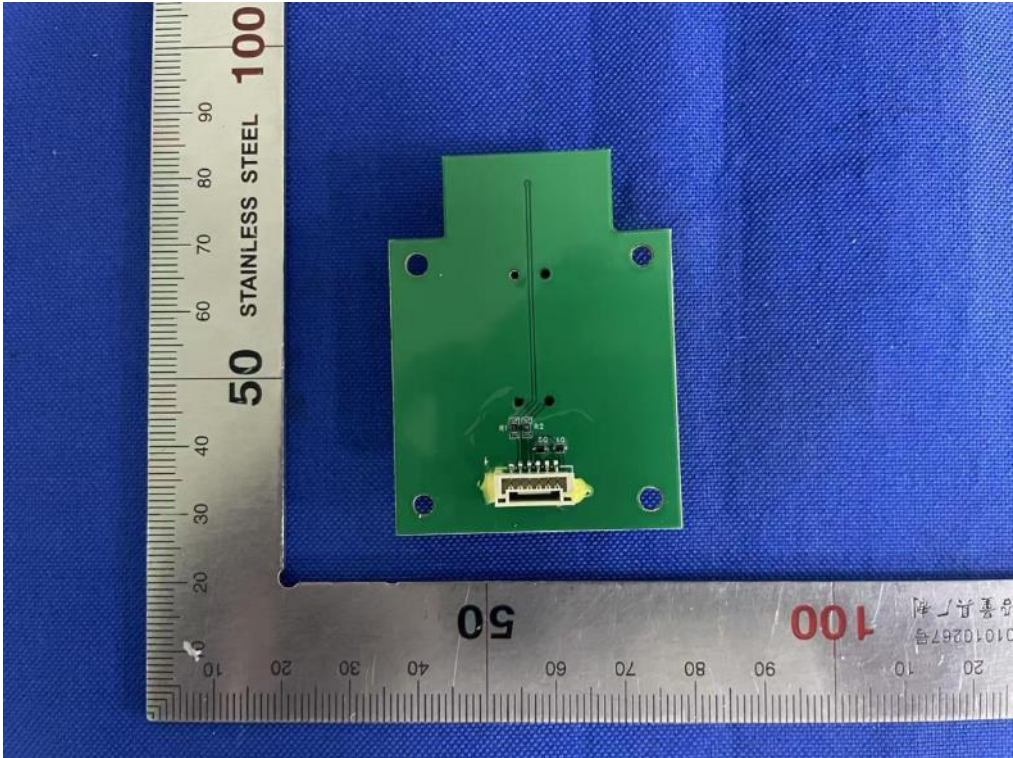


Internal-5 of the sample

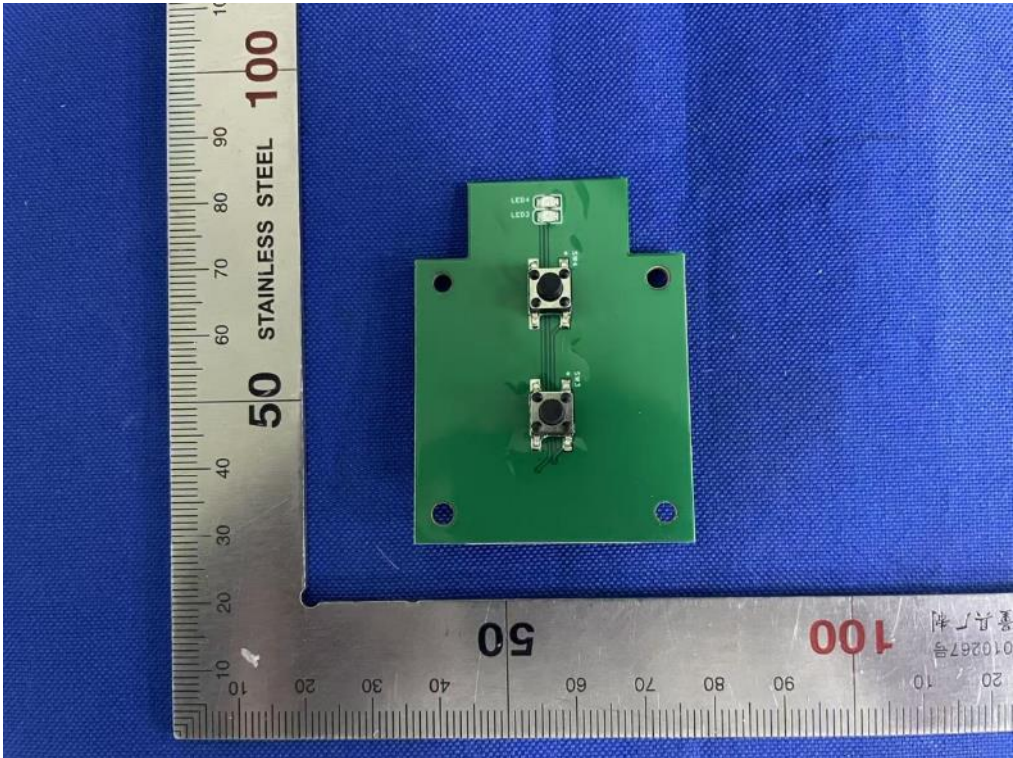


Internal-6 of the sample

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Internal-7 of the sample



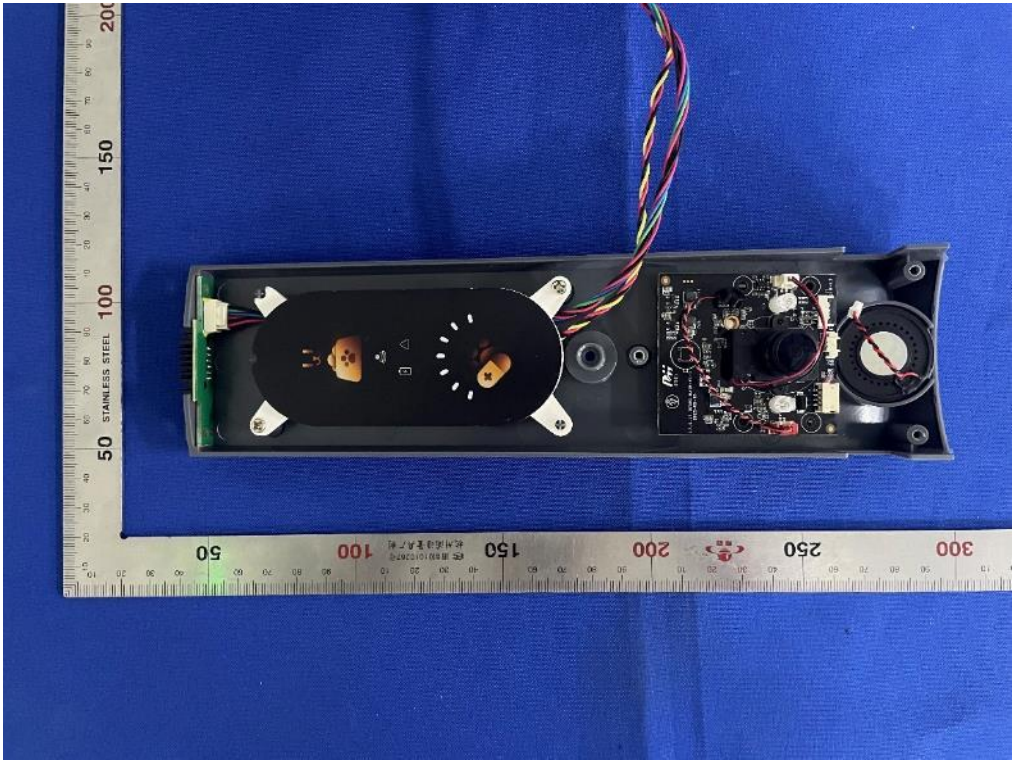
Internal-8 of the sample

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Internal-9 of the sample



Internal-10 of the sample

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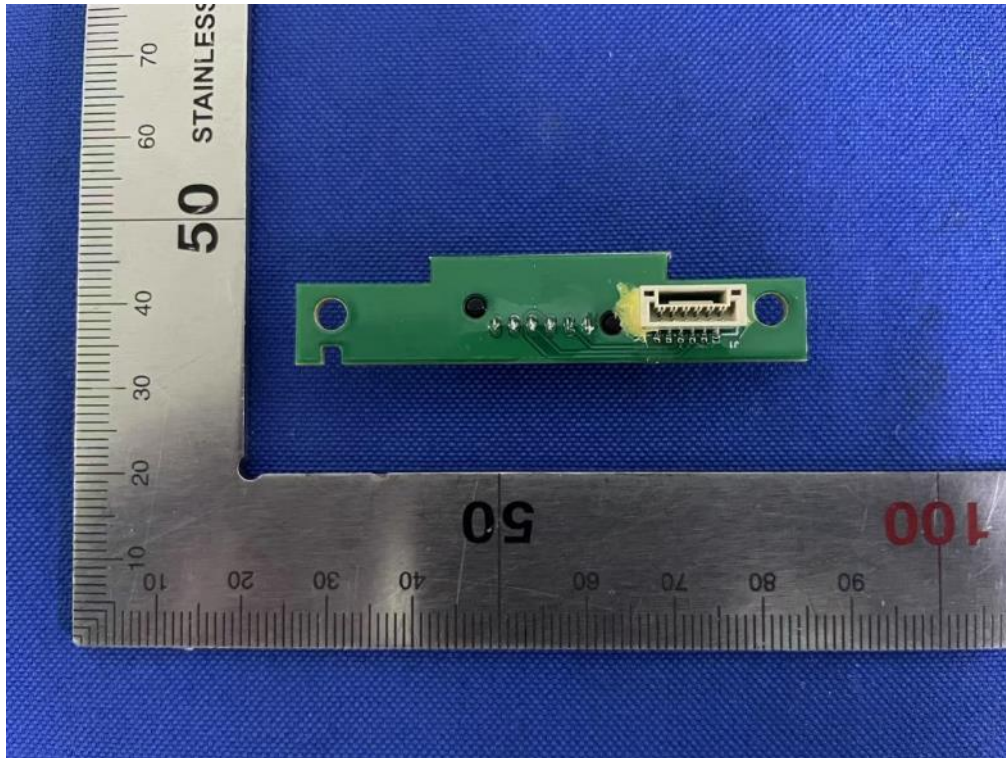
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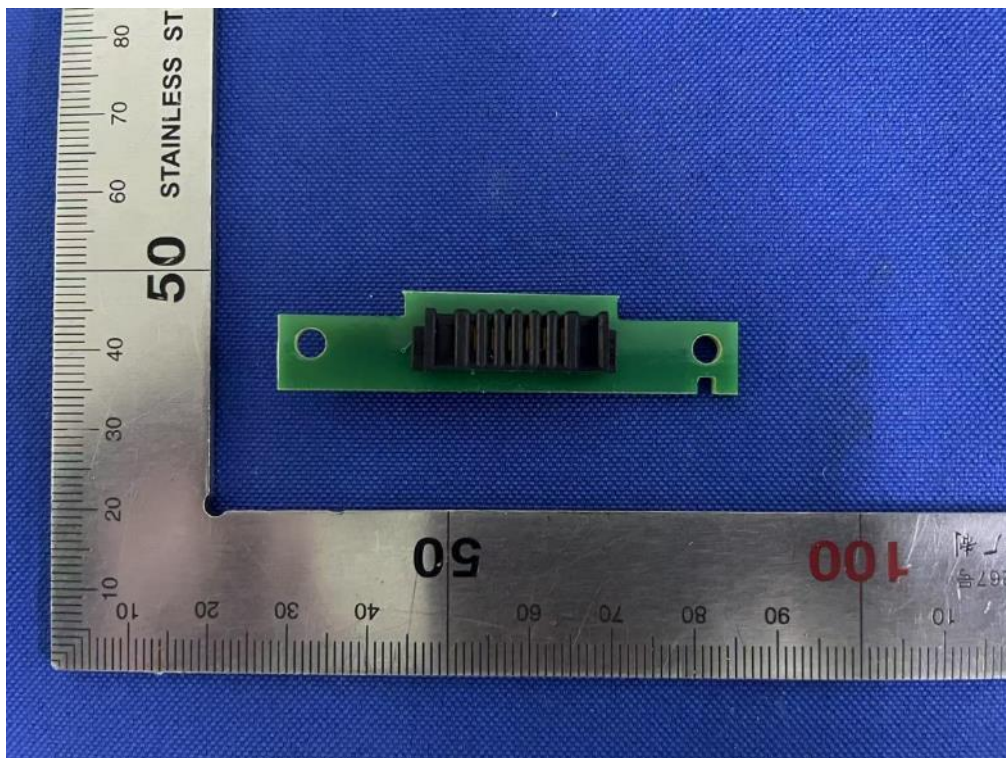
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Internal-11 of the sample

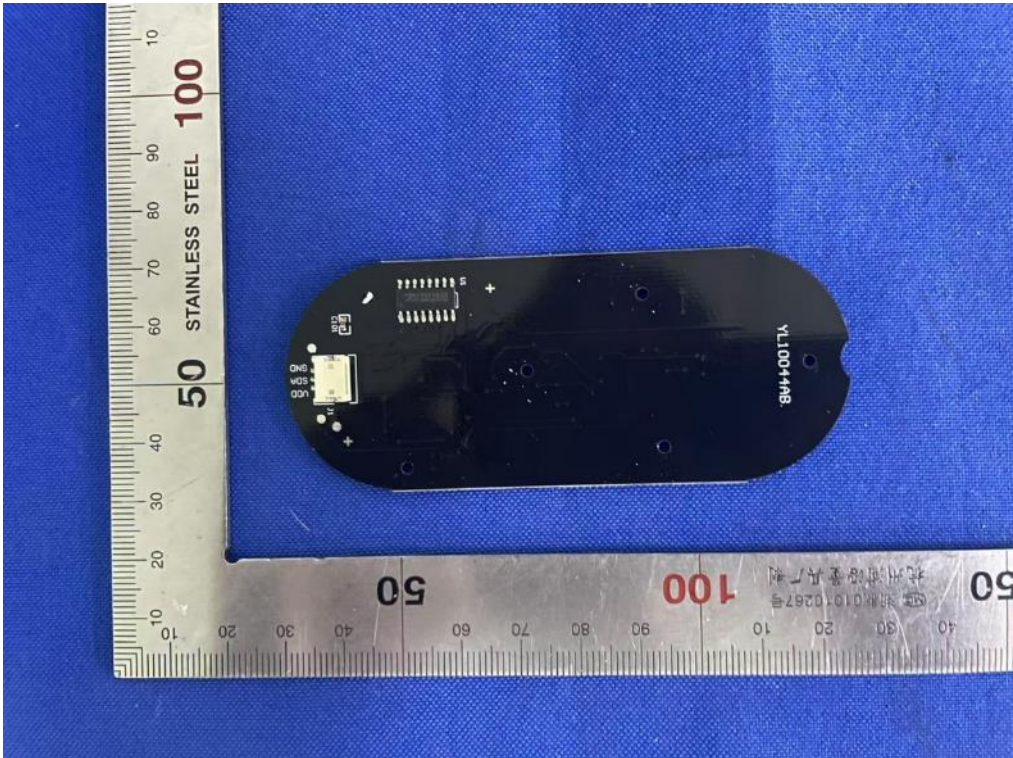


Internal-12 of the sample

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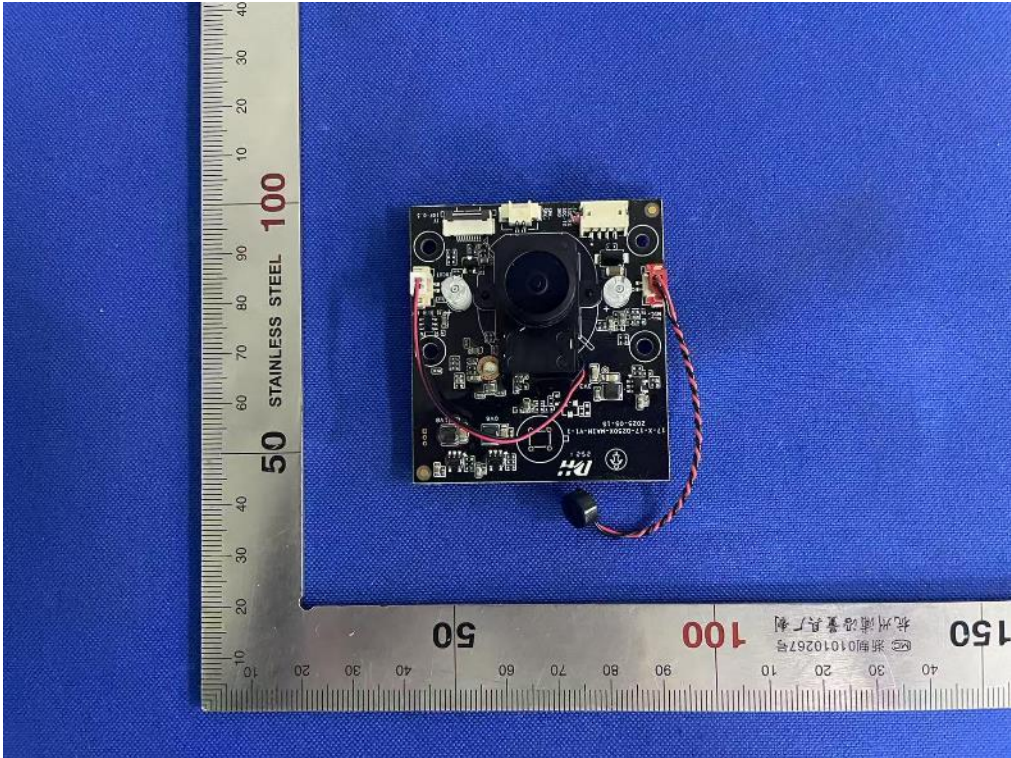


Internal-13 of the sample

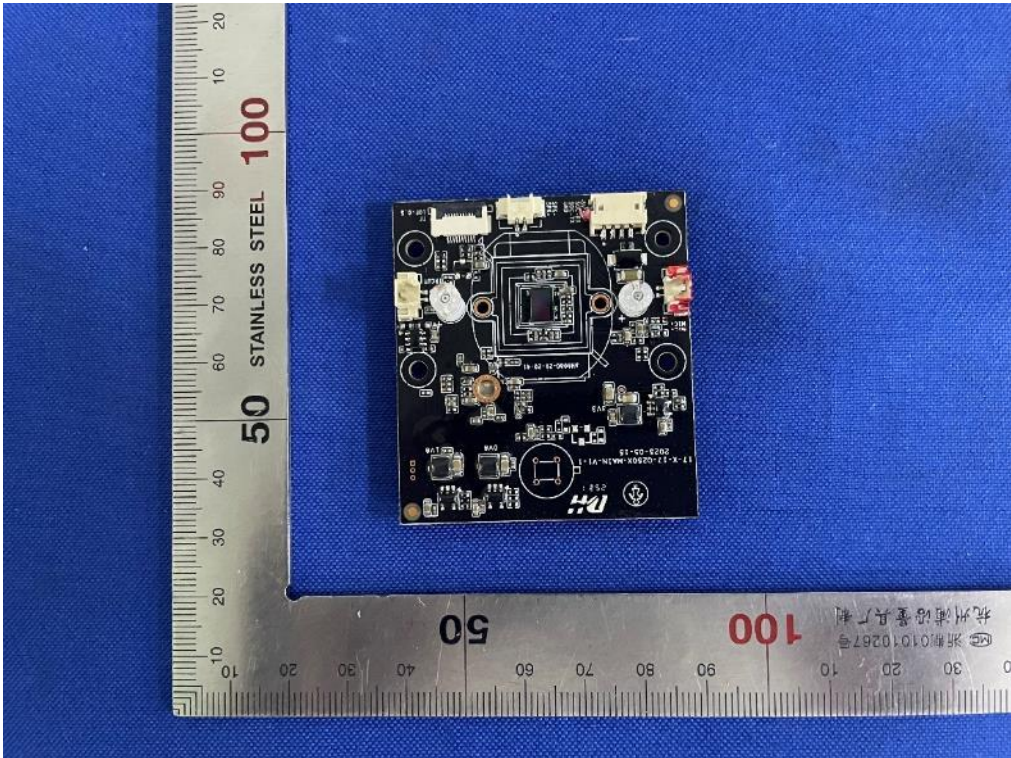


Internal-14 of the sample

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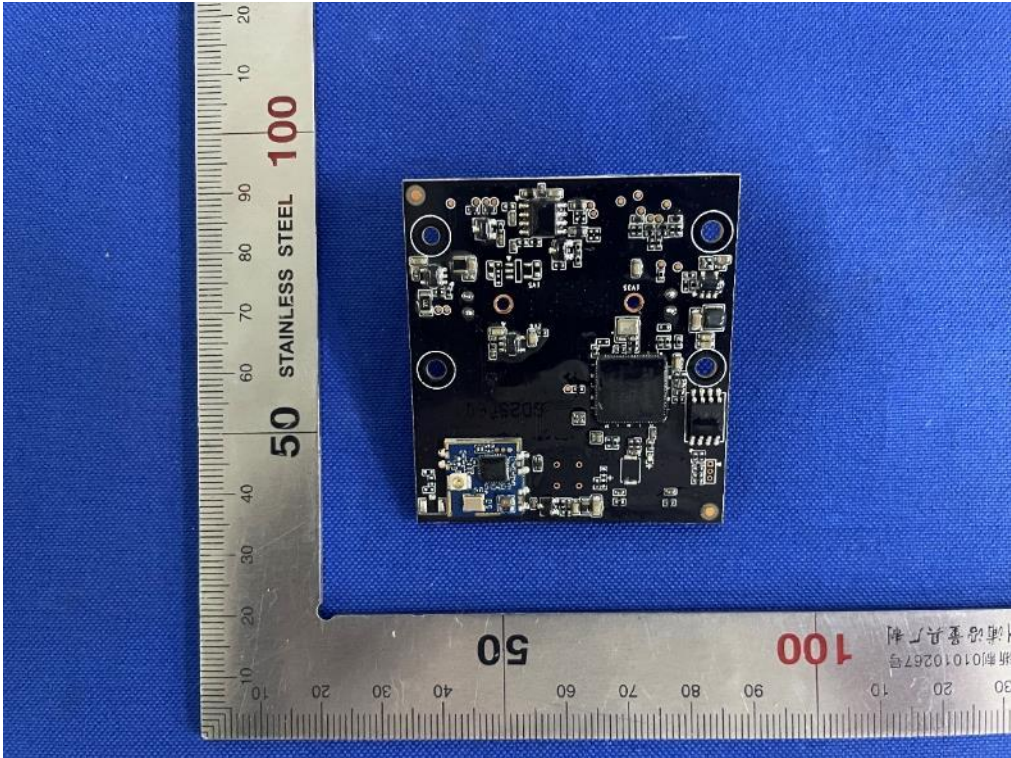


Internal-15 of the sample

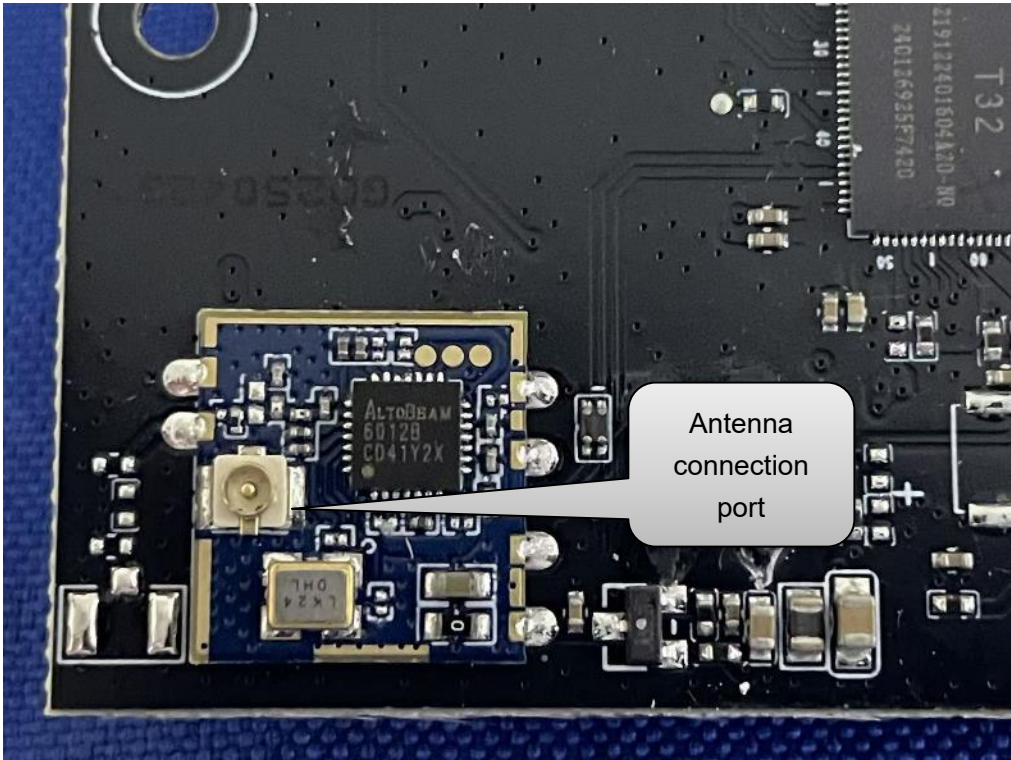


Internal-16 of the sample

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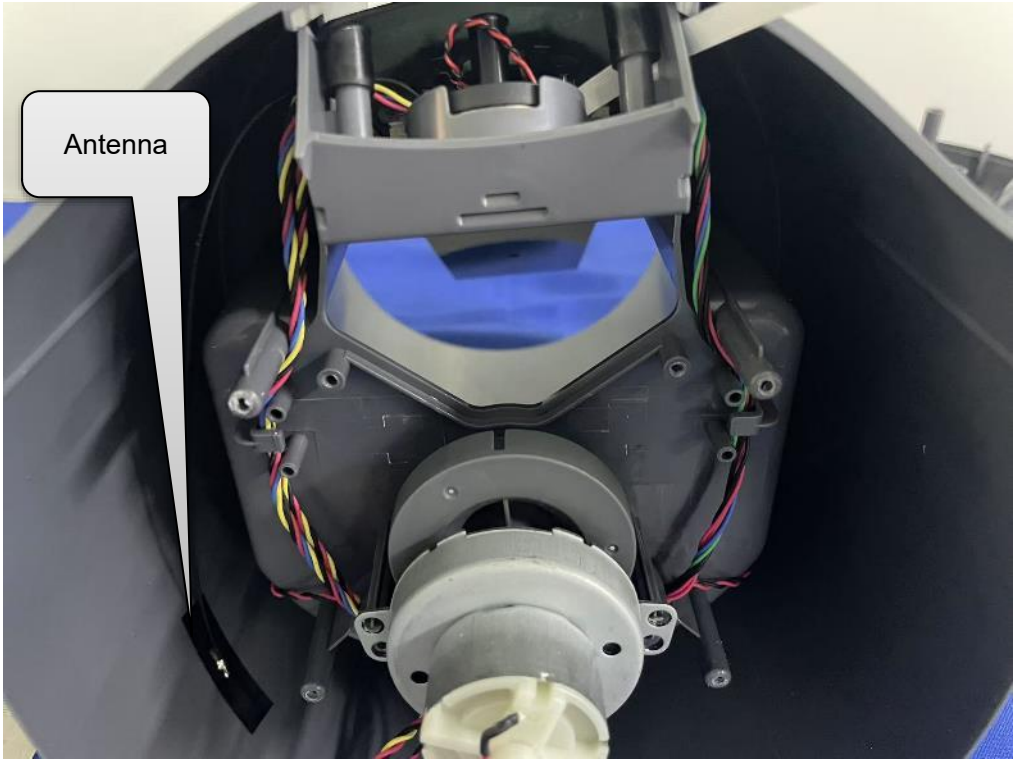


Internal-17 of the sample

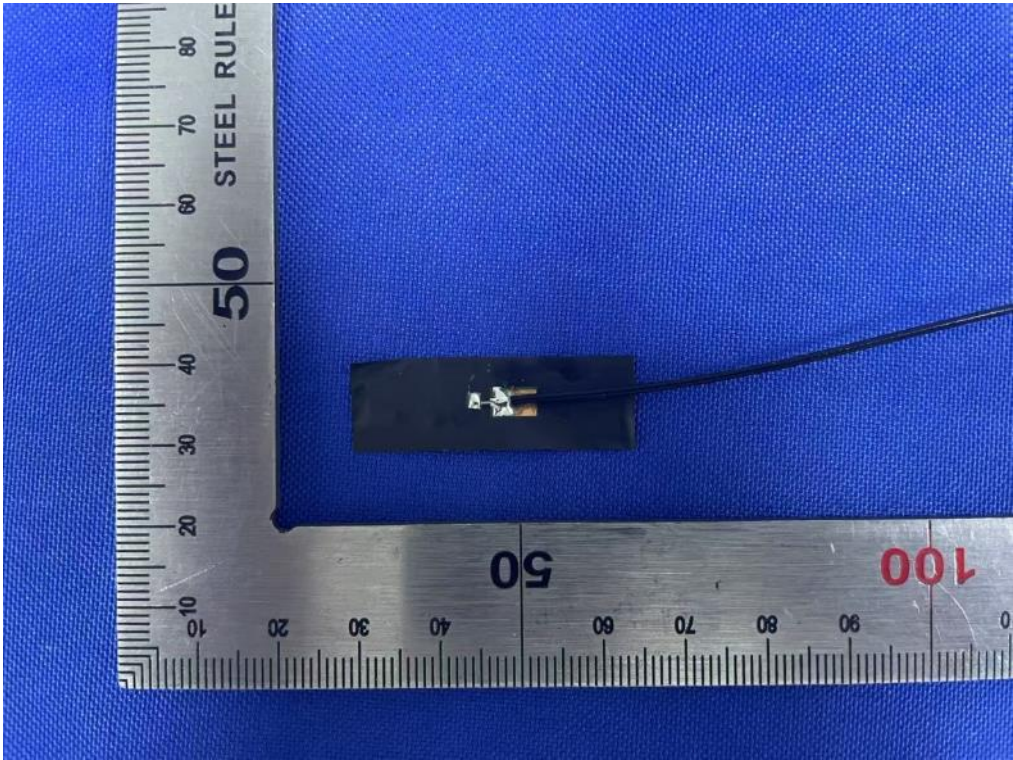


Antenna connection port

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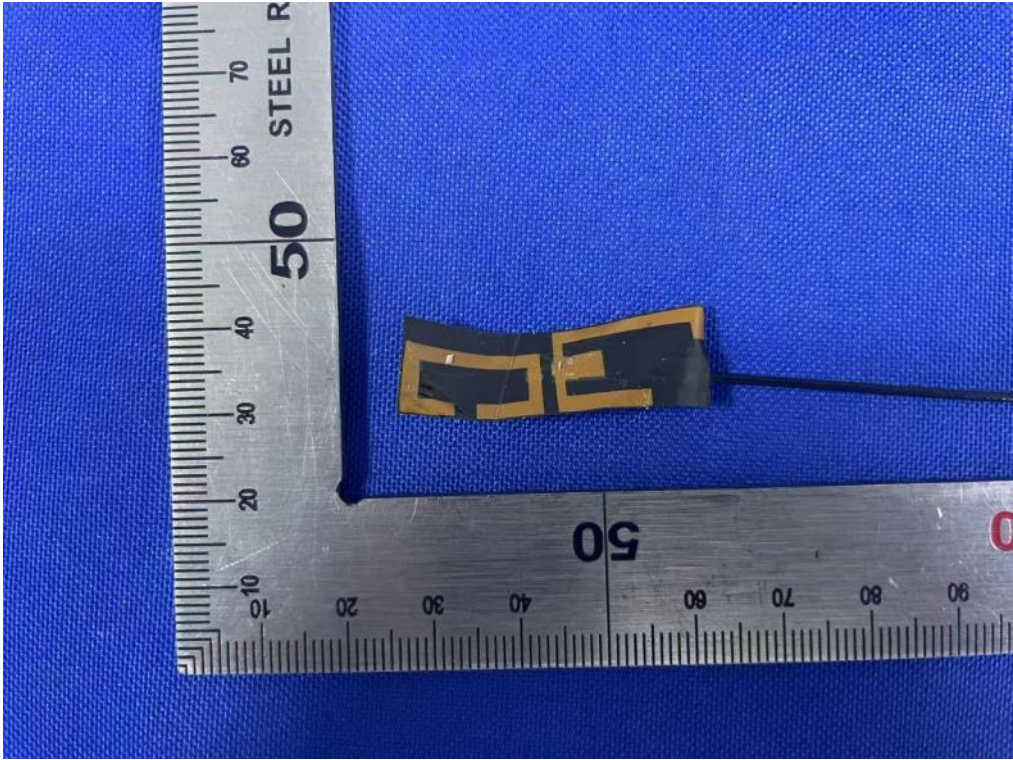
Antenna Position



Antenna photo-1

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Antenna photo-2



Adapter-1

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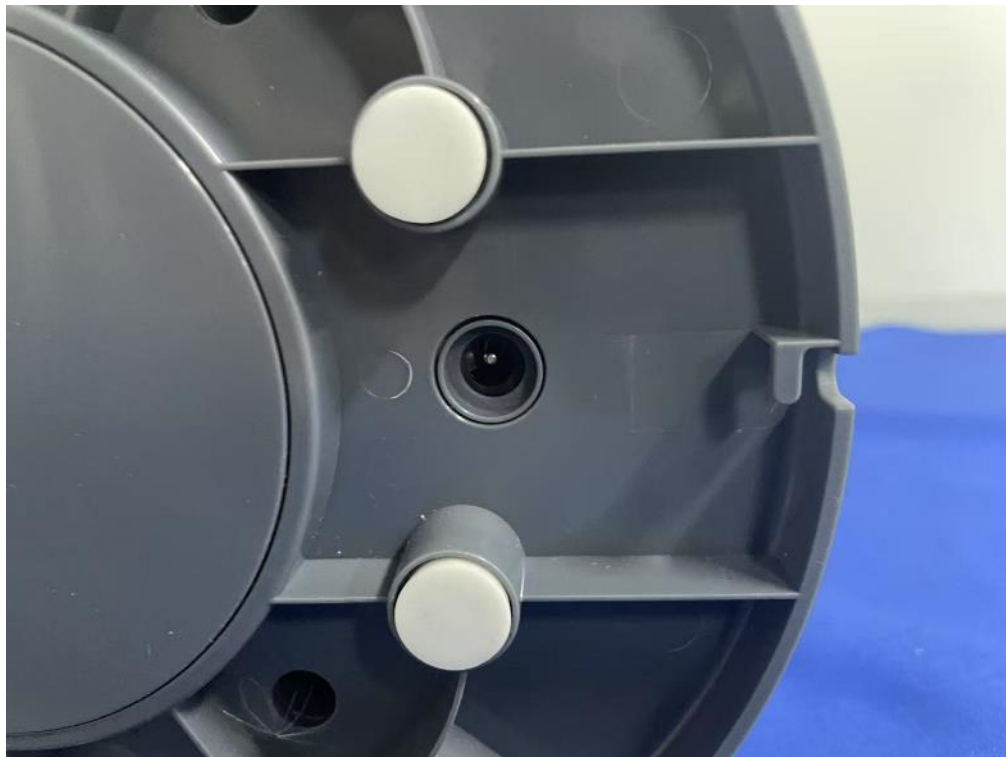
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Adapter-2



Power Port

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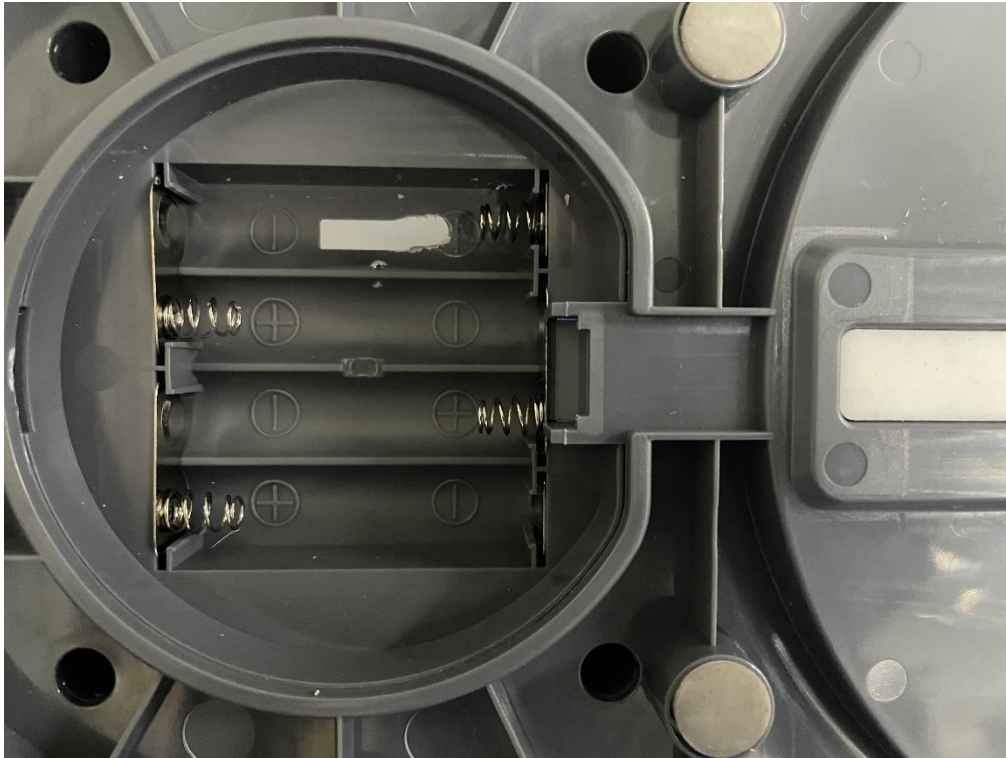
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Battery Supply

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5.2 Set-up for Conducted Emissions on AC Mains



5.3 Set-up for Conducted RF test at Antenna Port



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5.4 Set-up for Spurious Emissions below 1GHz



5.5 Set-up for Spurious Emissions above 1GHz



End of the report