



FCC TEST REPORT

FCC ID: 2BCQ8-SV1

On Behalf of

GUANGZHOU STAR INFORMATION TECHNOLOGY CO.,LTD

GNSS Receiver

Model No.: SV1, SV2, SV3, SV4, SV5, LV1, LV2, LV3, LV4, LV5, IV1, IV2, IV3, IV4, IV5, Q6, Galaxy G4, Galaxy G4 Pro, Galaxy G4 Plus, Galaxy G10, Galaxy G10 Pro, Galaxy G10 Plus, Z05, Z10 AR, Z20PRO, Z30, Z40, Z50

Prepared for : GUANGZHOU STAR INFORMATION TECHNOLOGY CO.,LTD
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Report Number : A2308245-C01-R01
Date of Receipt : September 7, 2023
Date of Test : September 7, 2023-September 14, 2023
Date of Report : September 14, 2023
Version Number : V0

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TEST REPORT DECLARATION

Applicant : GUANGZHOU STAR INFORMATION TECHNOLOGY CO.,LTD
Address : C-201 YUNSHENG SCIENCE PARK, NO.11, MIDDLE GUANGPU ROAD,
Manufacturer : GUANGZHOU STAR INFORMATION TECHNOLOGY CO.,LTD
Address : C-201 YUNSHENG SCIENCE PARK, NO.11, MIDDLE GUANGPU ROAD,
EUT Description : GNSS Receiver
(A) Model No. : SV1, SV2, SV3, SV4, SV5, LV1, LV2, LV3, LV4, LV5, IV1,
IV2, IV3, IV4, IV5, Q6, Galaxy G4, Galaxy G4 Pro, Galaxy
G4 Plus, Galaxy G10, Galaxy G10 Pro, Galaxy G10 Plus,
Z05, Z10 AR, Z20PRO, Z30, Z40, Z50
(B) Trademark : STEC,
ZENITH

Measurement Standard Used:

FCC PART 15:2021

(Part 15 Subpart B Class B, ANSI C63.4:2014)

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC Part15 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

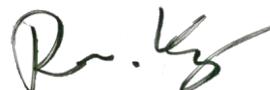
Tested by (name + signature).....:

Yannis Wen
Project Engineer



Approved by (name + signature).....:

Reak Yang
Project Manager



Date of issue.....:

September 14, 2023

Revision History

Revision	Issue Date	Revisions	Revised By
V0	September 14, 2023	Initial released Issue	Yannis Wen

1. General Information

1.1. Description of Device (EUT)

Product Name : GNSS Receiver

Model Number : SV1, SV2, SV3, SV4, SV5, LV1, LV2, LV3, LV4, LV5, IV1, IV2, IV3, IV4, IV5, Q6, Galaxy G4, Galaxy G4 Pro, Galaxy G4 Plus, Galaxy G10, Galaxy G10 Pro, Galaxy G10 Plus, Z05, Z10 AR, Z20PRO, Z30, Z40, Z50

Diff : There is no difference except the name of the model. All tests are made with the SV1 model.

Test Voltage : DC 3.6V From Battery, DC 5V From Adapter

EUT information : N/A

Highest Frequency : More than 108MHz

Software version : V1.0

Hardware version : V1.0

1.2. Accessories of Device (EUT)

Power Source : Switching Adapter

MODEL : DSA-45PDH

INPUT : 100-240V~50/60Hz 1.5A

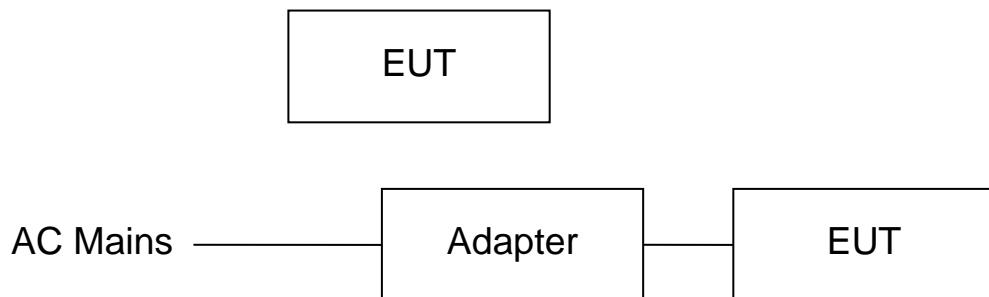
OUTPUT : +5.0V=3.0A, 15.0W; +9.0V=3.0A, 27.0W
+12.0V=3.0A, 36.0W; +15.0V=3.0A, 45.0W
+20.0V=2.25A, 45W

1.3. Tested Supporting System Details.

No.	Description	Manufacturer	Model	Serial Number
1.	N/A	N/A.	N/A	N/A
2.	N/A	N/A.	N/A	N/A

1.4. Block Diagram of connection between EUT and simulators

For Test



Signal Cable Description of the above Support Units

No.	Port Name	Cable	Length	Shielded (Yes or No)	Detachable (Yes or No)
1	N/A	N/A	N/A	N/A	N/A

2. Summary Of Standards And Results

2.1. Description of Standards and Results

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

EMISSION			
Description of Test Item	Standard	Limits	Results
Power Line Conducted Emission Test	FCC Part 15 ANSI C63.4:2014	Class B	P
Radiated Emission Test	FCC Part 15 ANSI C63.4:2014	Class B	P
Note: 1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable. 4. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.			

2.2. Test Mode Description

For Radiated Emission Test		
Mode No.	Test Mode	Test Voltage
Mode 1	Camera	DC 3.7V From Battery
Mode 2	Charging	DC 5V From Adapter
Mode 3	Data transmission	DC 3.7V From Battery
Mode 4	GPS	DC 3.7V From Battery
Mode 5	NFC RX	DC 3.7V From Battery
Mode 6	UHF RX	DC 3.7V From Battery

Note: Mode 3 is worst case mode tests, so this report only reflected the worst mode in this part.

For Power Line Conducted Emission Test		
Mode No.	Test Mode	Test Voltage
Mode 1	Charging	DC 5V From Adapter

2.3. Test Equipment List

For Power Line Conducted Emission Test Equipment:

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Last Cal.	Cal.Interval
1.	Test Receiver	Rohde&Schwarz	ESCI	101165	4.42 SP1	2023.08.16	1 Year
2.	L.I.S.N.#1	Schwarz beck	NSLK8126	8126-466	/	2023.08.16	1 Year
3.	L.I.S.N.#2	Rohde&Schwarz	ENV216	101043	/	2023.08.16	1 Year
4.	Pulse Limiter	Schwarz beck	9516F	9618	/	2023.08.16	1 Year

For Frequency Range 30MHz~1GHz Radiated Emission Test Equipment:

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Last Cal.	Cal.Interval
1	Test Receiver	Rohde&Schwarz	ESR	1316.3003K0 3-102082-Wa	2.28 SP1	2023.08.16	1 Year
2	Bilog Antenna	Schwarz beck	VULB 9168	VULB 9168#627	/	2023.08.28	2 Year

For Frequency Range above 1GHz Radiated Emission Test Equipment:

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Rohde&Schwarz	FSU	200002	4.71.SP5	2023.08.16	1 Year
2	Horn Antenna	Schwarz beck	BBHA 9120 D	02106	/	2023.08.19	2 Year
3	Amplifier	Agilent	8449B	3008A02664	/	2023.08.16	1 Year

For Test Software Information

Item	Software Name	Manufacturer	Version
RE	EZ-EMC	Farad	Alpha-3A1
CE	EZ-EMC	Farad	Alpha-3A1

2.4. Test Facility

Shenzhen Alpha Product Testing Co., Ltd.

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

2.5. Measurement Uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	1.63dB
Uncertainty for Radiation Emission test (<1G)	3.74 dB (Distance: 3m Polarize: V)
	3.76 dB (Distance: 3m Polarize: H)
Uncertainty for Radiation Emission test (>1G)	3.77 dB (Distance: 3m Polarize: V)
	3.80 dB (Distance: 3m Polarize: H)
(95% confidence levels, k=2)	

3. Power Line Conducted Emission Test

3.1. Test Limits

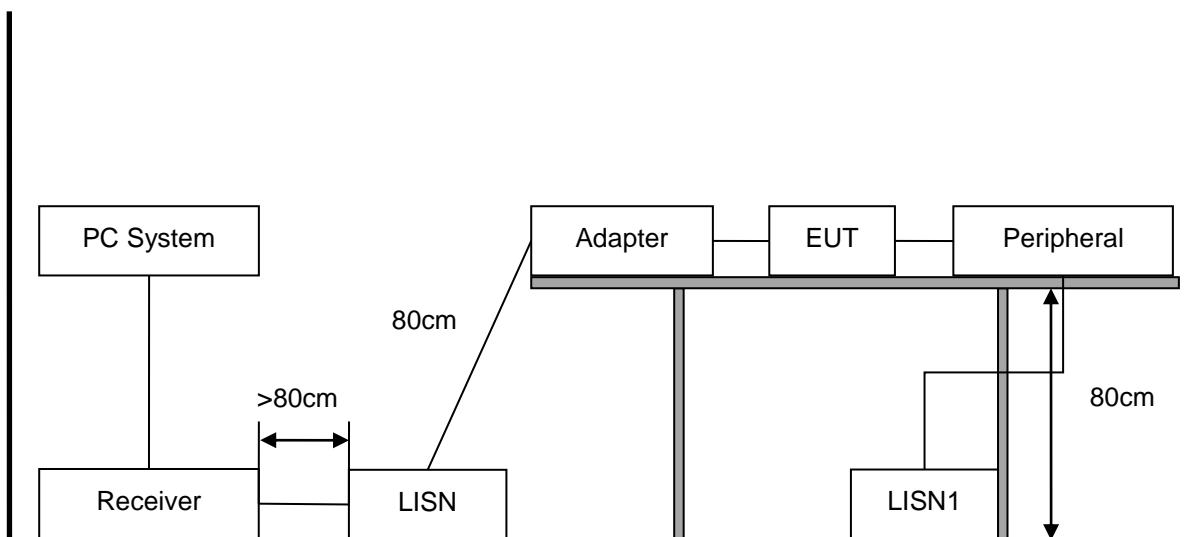
Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. Emission level=Read level + LISN factor-Preamp factor + Cable loss

2. * Decreasing linearly with logarithm of frequency.

3. The lower limit shall apply at the transition frequencies.

3.2. Block Diagram of Test Setup



3.3. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 3.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

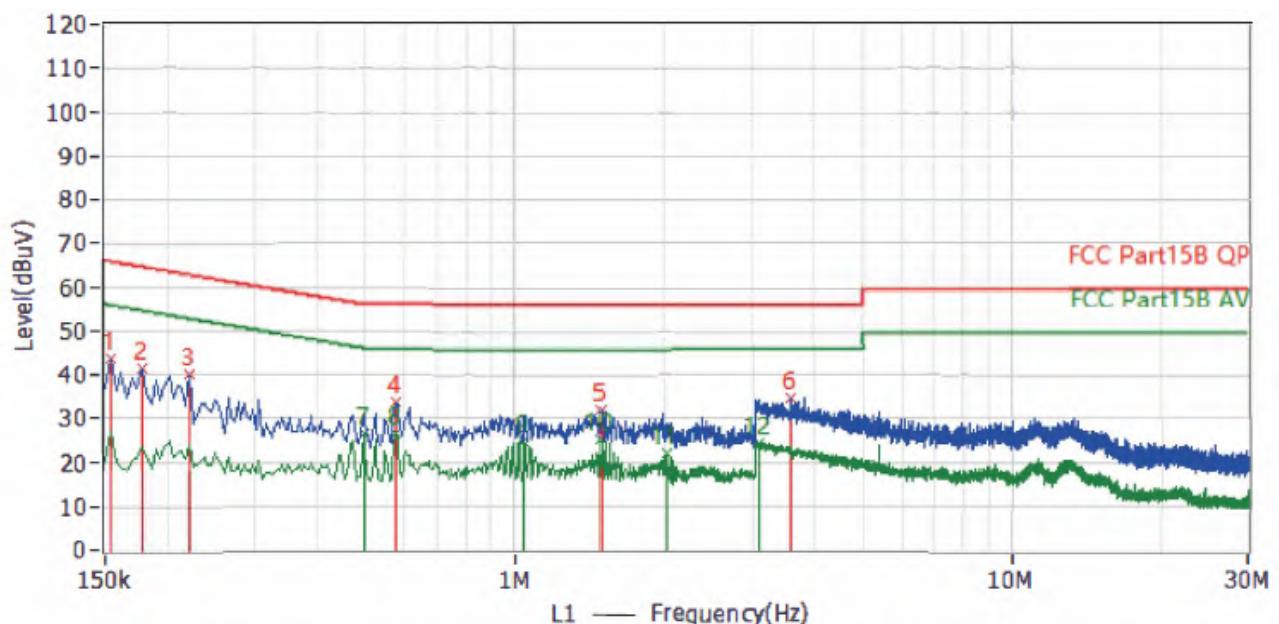
3.5. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4:2014 on conducted Emission test.
- (2) The frequency range from 150kHz to 30MHz is checked, the bandwidth of test receiver (R&S TEST RECEIVER ESCI) is set at 9kHz.

3.6. Test Results

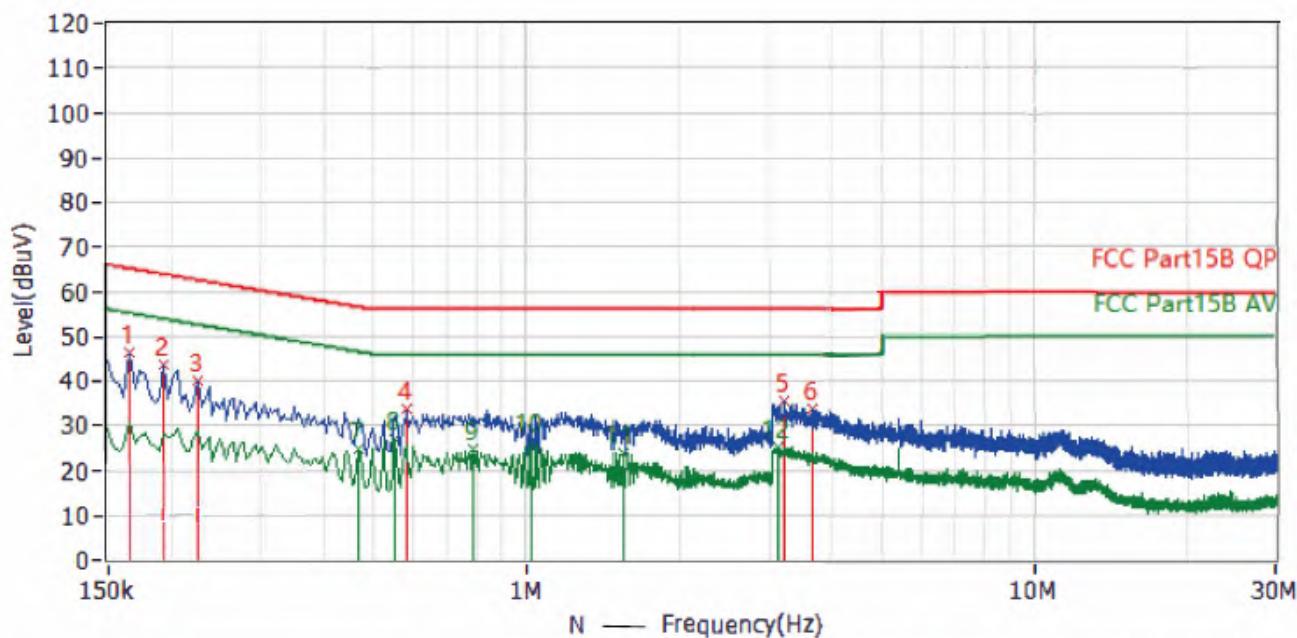
Test Date	:	2023.09.13	Temperature	:	24°C
Test Engineer	:	Yanns Wen	Humidity	:	56%
Test Mode	:	Charging			
Test Results	:	PASS			
<p>Note: 1. The test results are listed in next pages.</p> <p>2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out.</p> <p>3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.</p>					

Polarization: Line



No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Factor dB	Detector	Polar
1*	154.000 kHz	65.8	43.4	-22.4	9.7	PK	L1
2*	178.000 kHz	64.6	41.4	-23.2	9.7	PK	L1
3*	222.000 kHz	62.7	39.9	-22.8	9.7	PK	L1
4*	578.000 kHz	56.0	33.5	-22.5	9.8	PK	L1
5*	1.498 MHz	56.0	31.9	-24.1	9.9	PK	L1
6*	3.598 MHz	56.0	34.5	-21.5	9.9	PK	L1
7*	498.000 kHz	46.0	26.5	-19.5	9.8	AV	L1
8*	578.000 kHz	46.0	26.4	-19.6	9.8	AV	L1
9*	1.050 MHz	46.0	24.7	-21.3	9.9	AV	L1
10*	1.498 MHz	46.0	25.0	-21.0	9.9	AV	L1
11*	2.022 MHz	46.0	21.8	-24.2	9.9	AV	L1
12*	3.094 MHz	46.0	24.3	-21.7	9.9	AV	L1

Polarization: Neutral



No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Factor dB	Detector	Polar
1*	166.000 kHz	65.2	46.1	-19.1	9.7	PK	N
2*	194.000 kHz	63.9	43.5	-20.4	9.7	PK	N
3*	226.000 kHz	62.6	39.9	-22.7	9.7	PK	N
4*	586.000 kHz	56.0	33.5	-22.5	9.7	PK	N
5*	3.206 MHz	56.0	35.4	-20.6	9.9	PK	N
6*	3.654 MHz	56.0	33.6	-22.4	9.9	PK	N
7*	470.000 kHz	46.5	24.6	-22.0	9.7	AV	N
8*	554.000 kHz	46.0	27.0	-19.0	9.7	AV	N
9*	790.000 kHz	46.0	24.7	-21.3	9.7	AV	N
10*	1.026 MHz	46.0	26.6	-19.4	9.7	AV	N
11*	1.550 MHz	46.0	24.0	-22.0	9.8	AV	N
12*	3.130 MHz	46.0	25.0	-21.0	9.9	AV	N

4. Radiated Emission Test

4.1. Test Limit

Frequency MHz			Distance (Meters)	Field Strengths Limits dB(μV)/m
30	~	88	3	40.0
88	~	216	3	43.5
216	~	960	3	46.0
960	~	1000	3	54.0
Above 1GHz			3	74(Peak) 54(Average)

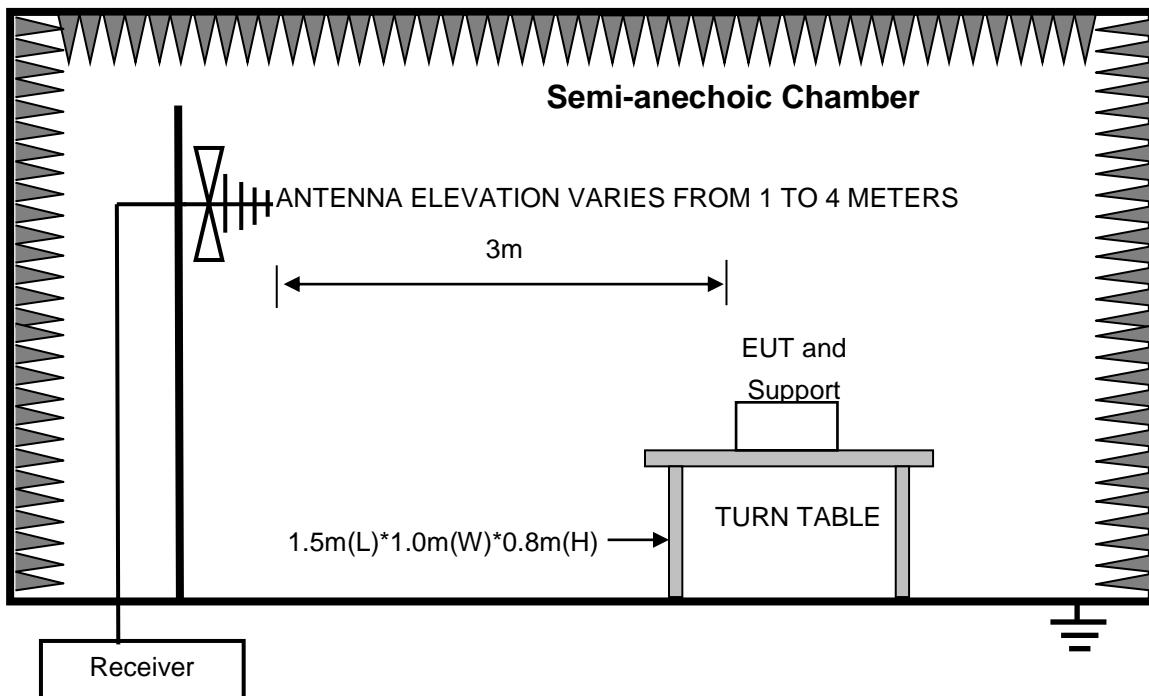
Notes:

1. The smaller limit shall apply at the cross point between two frequency bands.
2. Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
3. Frequency range of radiated measurements:

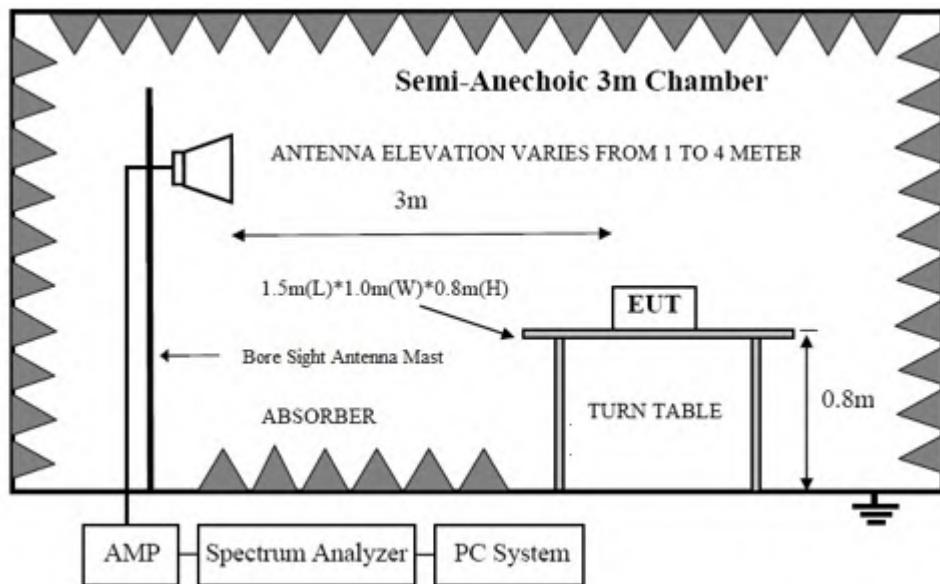
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

4.2. Block Diagram of Test Setup

In Semi Anechoic Chamber (3m) Test Setup Diagram for 30MHz~1000MHz



In Semi Anechoic Chamber (3m) Test Setup Diagram for Above 1GHz



4.3. Configuration of EUT on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

4.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 4.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

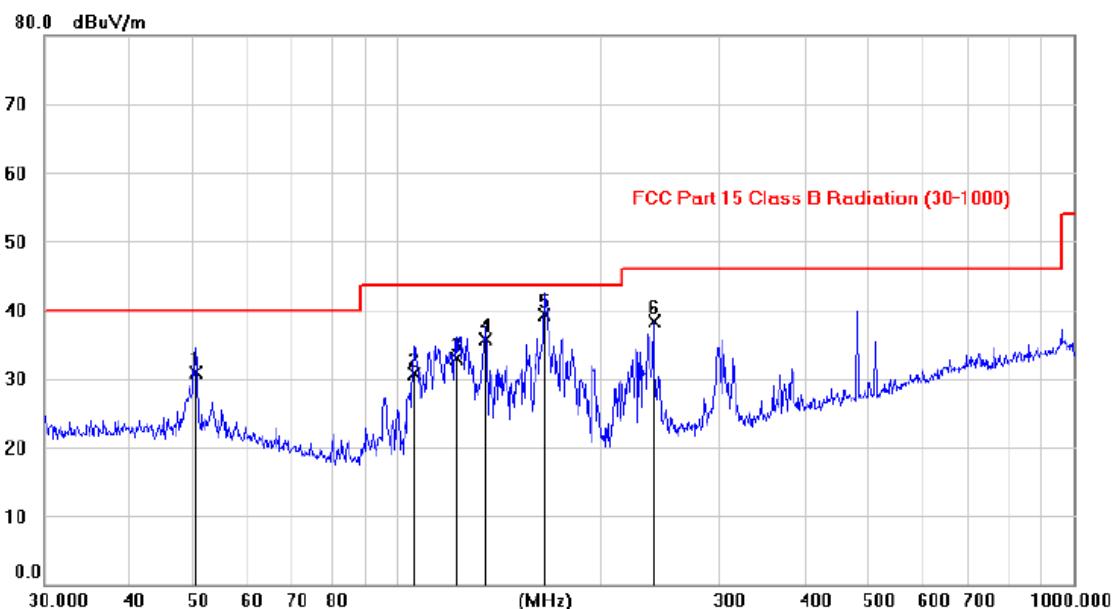
4.5. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4:2014 on Radiated Emission test.
- (2) For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- (3) The frequency range from 30MHz to 1000MHz is checked, the bandwidth of test receiver (R&S TEST RECEIVER ESR) is set at 120kHz.
- (4) The frequency range from above 1GHz is checked, the bandwidth of spectrum analyzer (Spectrum Analyzer FSV40-N) is set at 1MHz.
- (5) The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values, the frequency range from 1GHz to 6GHz was pre-scanned with a peak detector and all final readings of measurement from Spectrum Analyzer are peak and average values checked, all measurement distance is 3m in 3m semi anechoic chamber.
- (6) The test results are reported on Section 4.7.

4.6. Test Results

Frequency Range	: 30MHz~1000MHz		
Test Date	: 2023.09.07	Temperature	: 24°C
Test Engineer	: Yannis Wen	Humidity	: 56%
Test Mode	: Data transmission		
Test Results	: PASS		
Note: 1. The test results are listed in next pages. 2. If the limits for the measurement with the quasi-peak detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet limits and the measurement with the quasi-peak detector need not be carried out.			

Antenna Polarity: Vertical

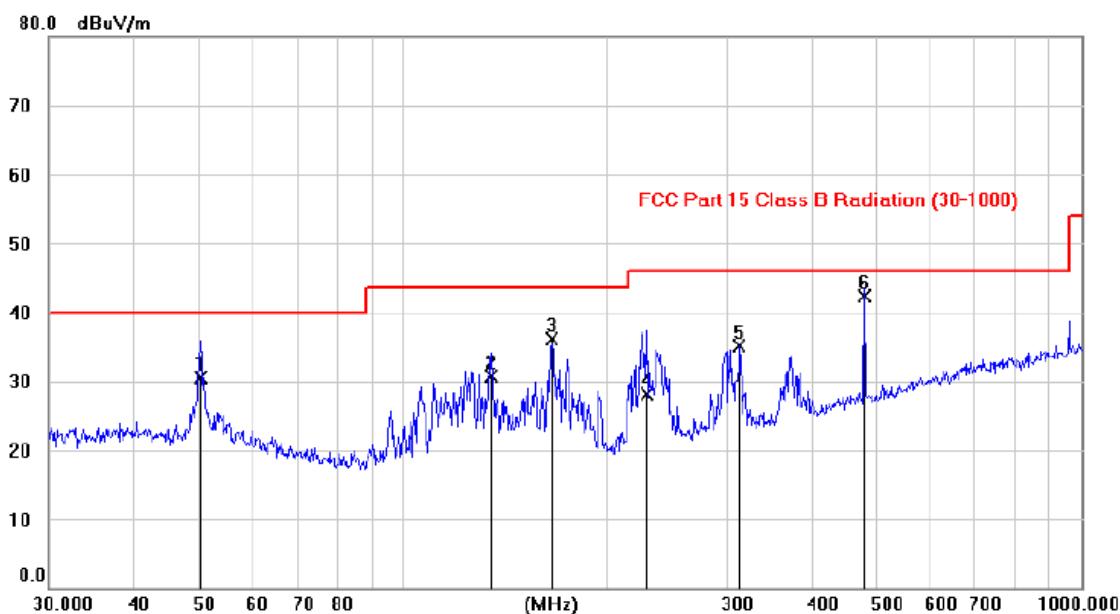


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	
									MHz	dBuV
									dB	dBuV/m
1		50.3029	17.00	13.99	30.99	40.00	-9.01	QP	100	360
2		105.9383	19.30	11.43	30.73	43.50	-12.77	QP	100	360
3		122.1896	19.65	13.16	32.81	43.50	-10.69	QP	100	0
4		134.8111	21.81	13.94	35.75	43.50	-7.75	QP	100	0
5	*	165.2690	24.78	14.53	39.31	43.50	-4.19	QP	100	360
6		239.6230	25.74	12.54	38.28	46.00	-7.72	peak		

Note: 1. *:Maximum data; x:Over limit; !:over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Antenna Polarity: Horizontal



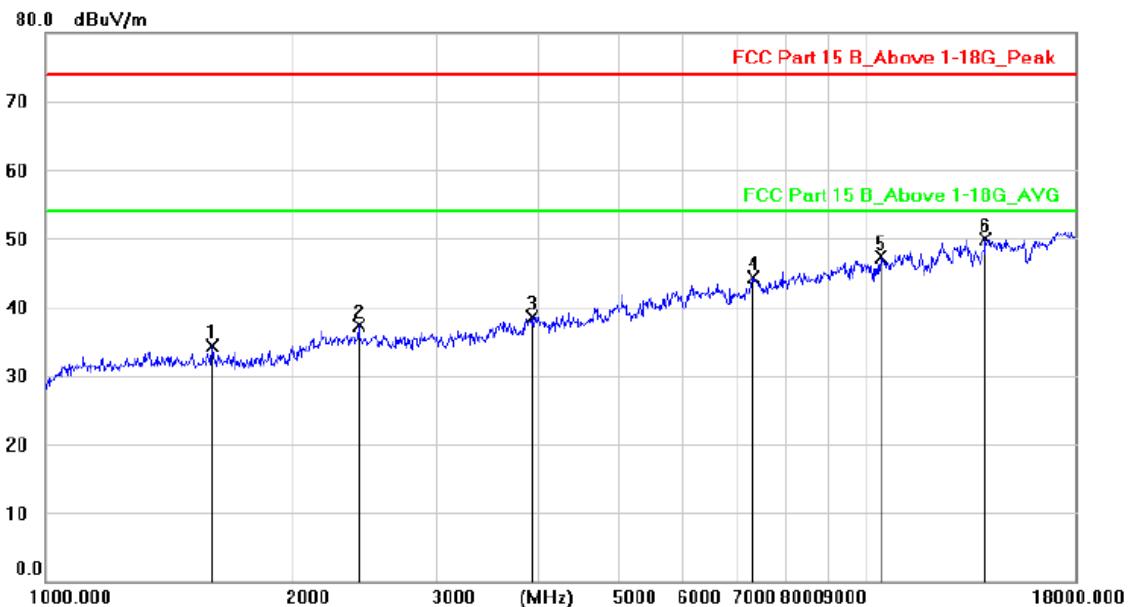
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
							MHz	dBuV	dB	dBuV/m	dB
1		50.3264	16.45	13.99	30.44	40.00		-9.56	QP	200	360
2		135.1424	16.80	13.96	30.76	43.50		-12.74	QP	200	0
3		165.7190	21.56	14.49	36.05	43.50		-7.45	QP	200	0
4		228.8112	15.92	12.24	28.16	46.00		-17.84	QP	200	0
5		314.3397	20.58	14.47	35.05	46.00		-10.95	peak		
6	*	480.0224	24.26	17.95	42.21	46.00		-3.79	QP	200	360

Note: 1. *:Maximum data; x:Over limit; !:over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Frequency Range	: Above 1GHz		
Test Date	: 2023.09.07	Temperature	: 24°C
Test Engineer	: Yannis Wen	Humidity	: 56%
Test Mode	: Data transmission		
Test Results	: PASS		
Note:	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. So the frequency rang 1GHz-6GHz radiation test not applicable.		

Antenna Polarity: Vertical

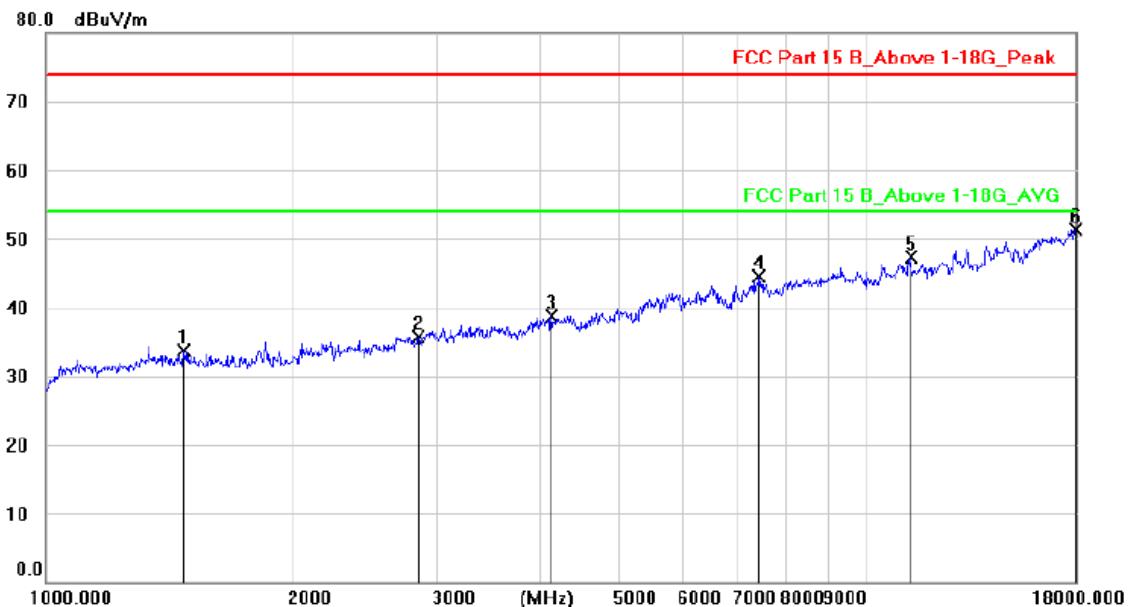


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree					
							MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1		1598.566	53.61	-19.38	34.23	74.00				-39.77	peak				
2		2411.185	53.04	-15.76	37.28	74.00				-36.72	peak				
3		3918.468	50.03	-11.52	38.51	74.00				-35.49	peak				
4		7294.573	45.65	-1.32	44.33	74.00				-29.67	peak				
5		10429.82	45.96	1.26	47.22	74.00				-26.78	peak				
6	*	14026.27	44.26	5.55	49.81	74.00				-24.19	peak				

Note: 1. *:Maximum data; x:Over limit; l:over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Antenna Polarity: Horizontal



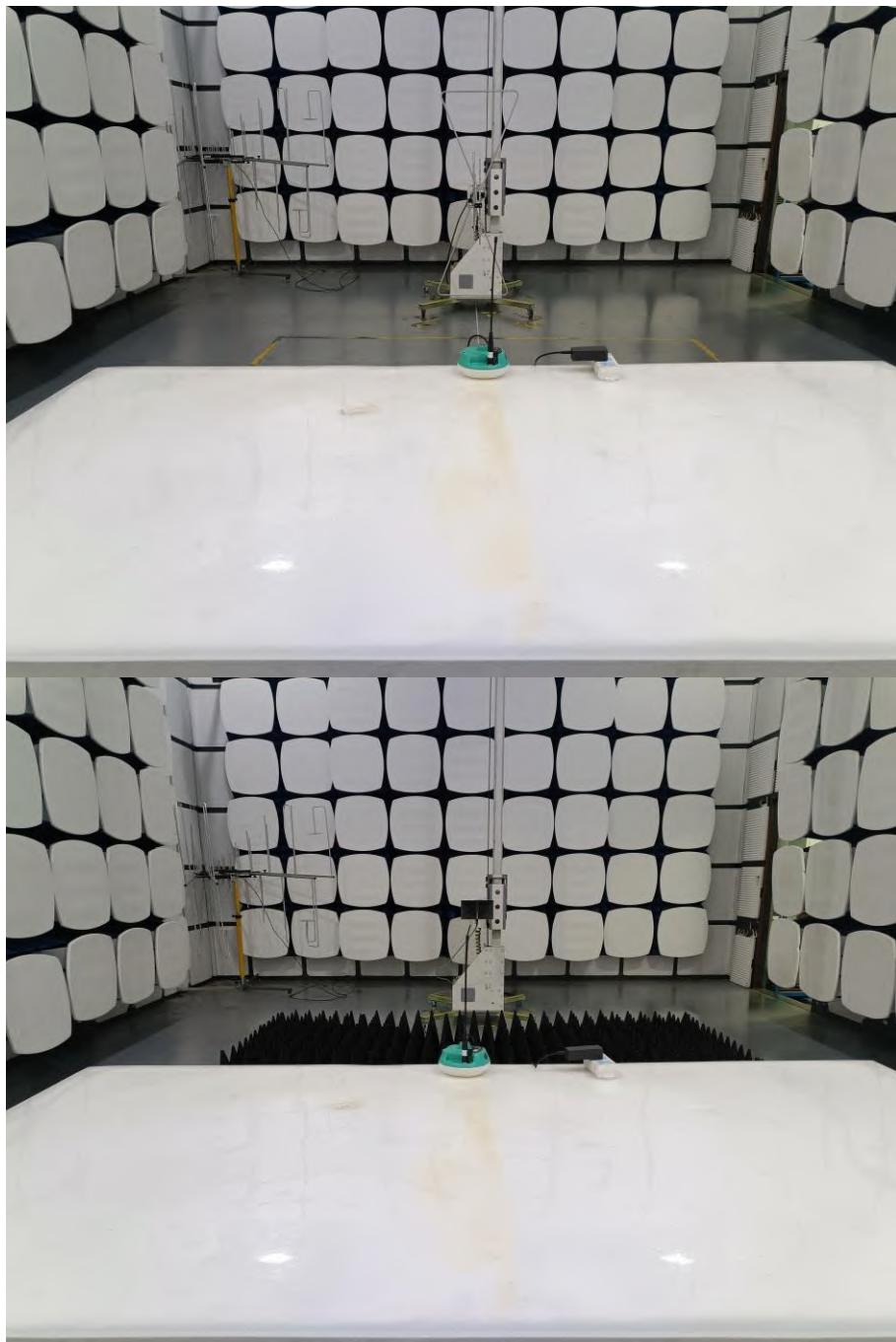
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree									
									MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1474.716	53.08	-19.36	33.72	74.00	-40.28	peak										
2		2848.785	50.50	-14.77	35.73	74.00	-38.27	peak										
3		4134.893	49.53	-10.73	38.80	74.00	-35.20	peak										
4		7415.747	45.80	-1.38	44.42	74.00	-29.58	peak										
5		11341.74	44.73	2.63	47.36	74.00	-26.64	peak										
6	*	18000.00	37.96	13.36	51.32	74.00	-22.68	peak										

Note: 1. *:Maximum data; x:Over limit; !:over margin.

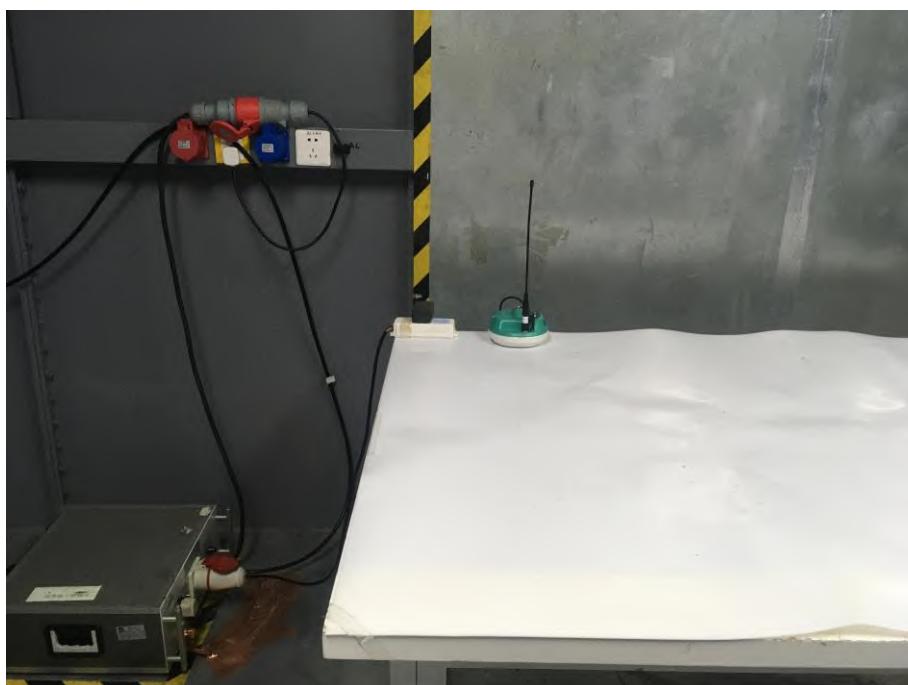
2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

5. Test Setup Photo

5.1. Photo of Radiated Emission Test (In Semi Anechoic Chamber)



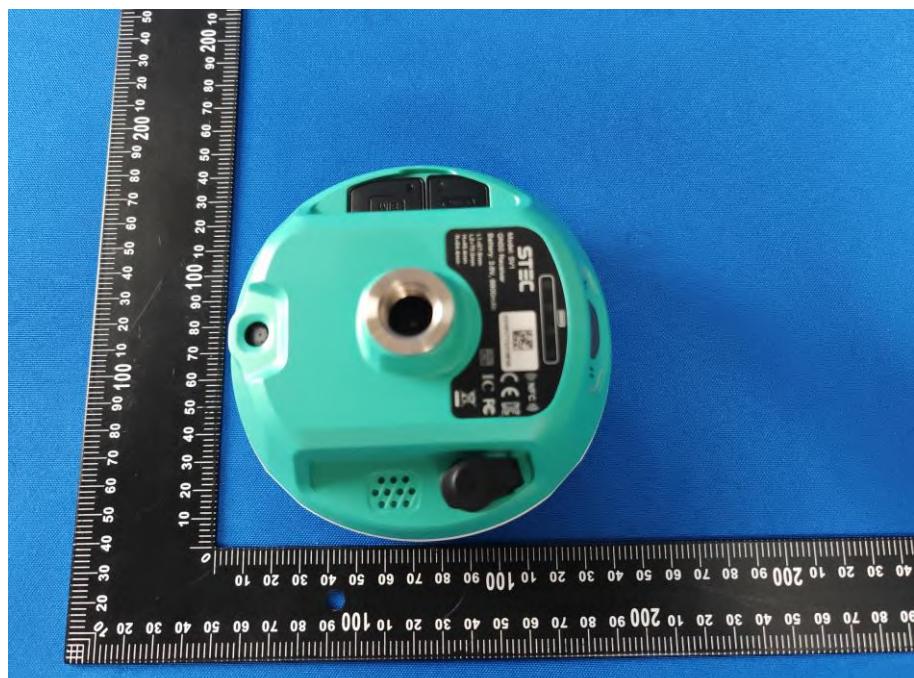
5.2. Photo of Power Line Conducted Emission Test



Photos Of The EUT



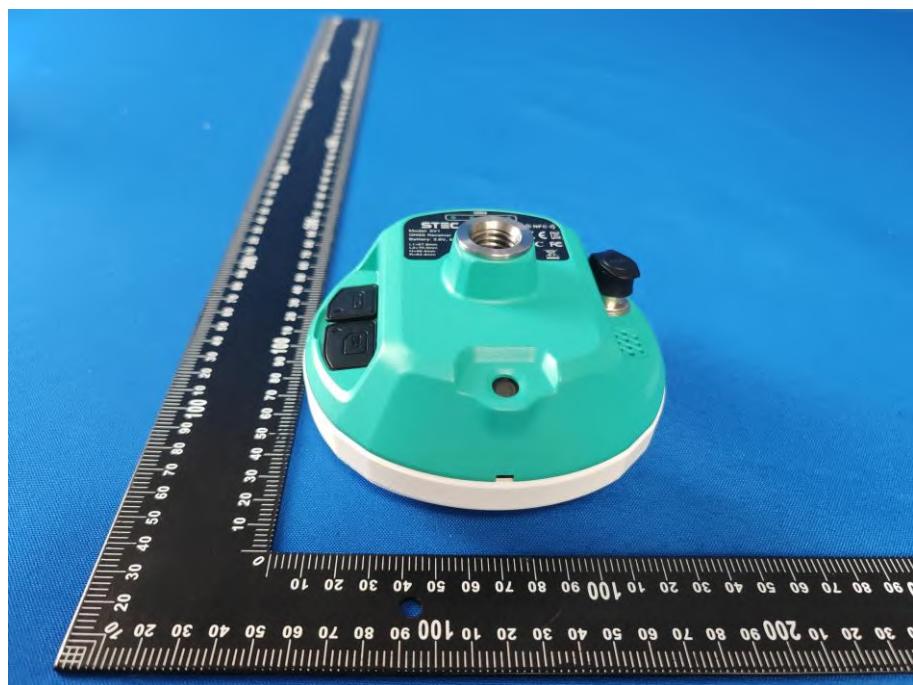
EUT View



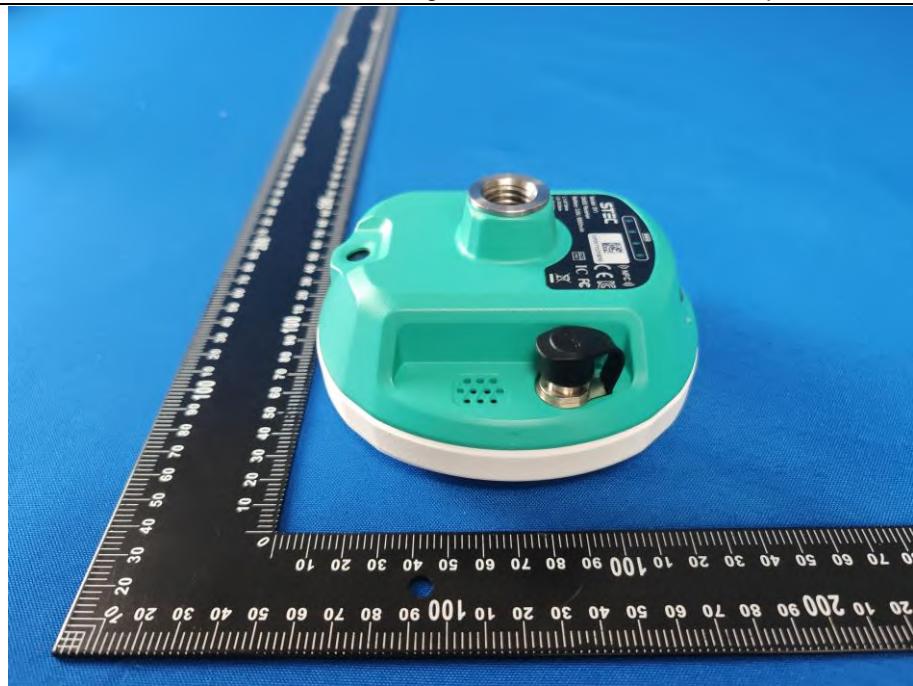
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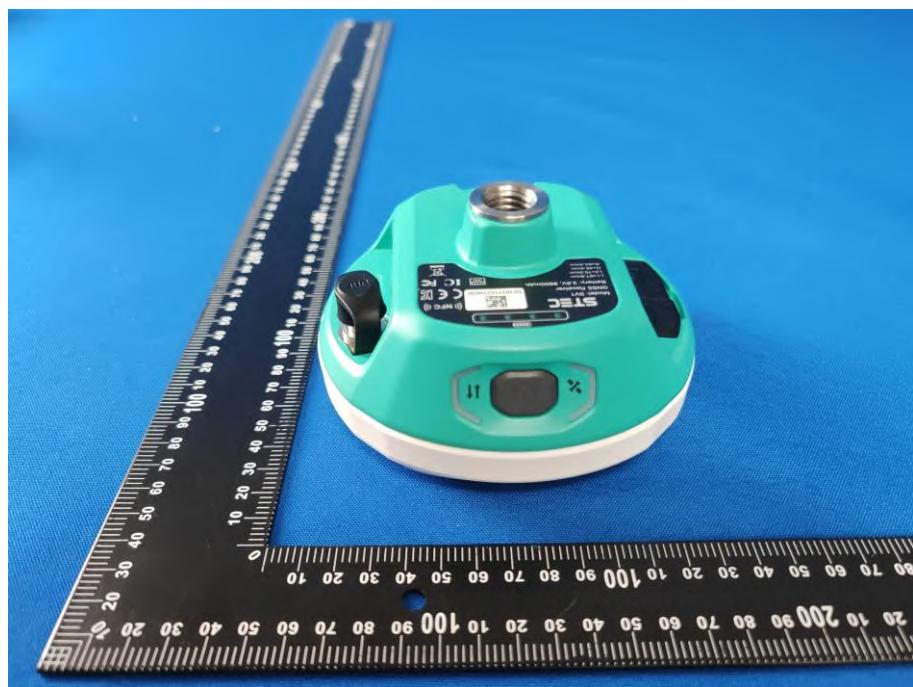
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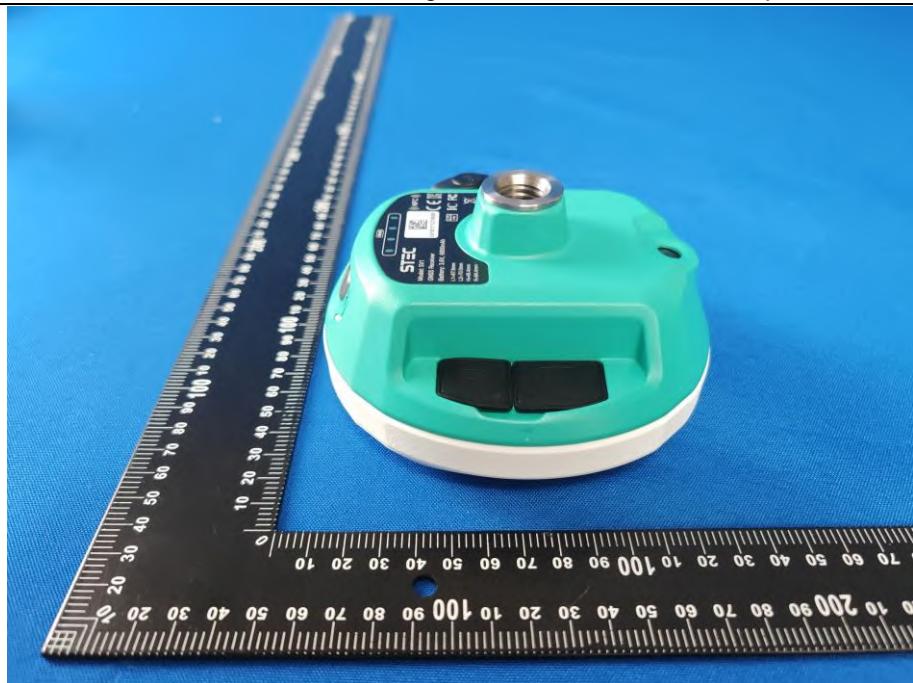
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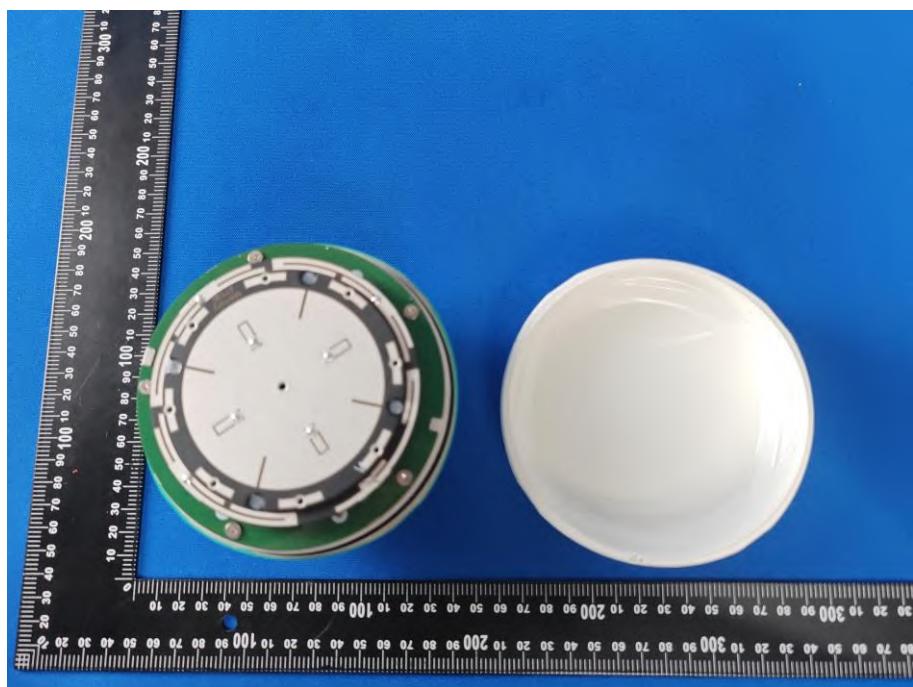
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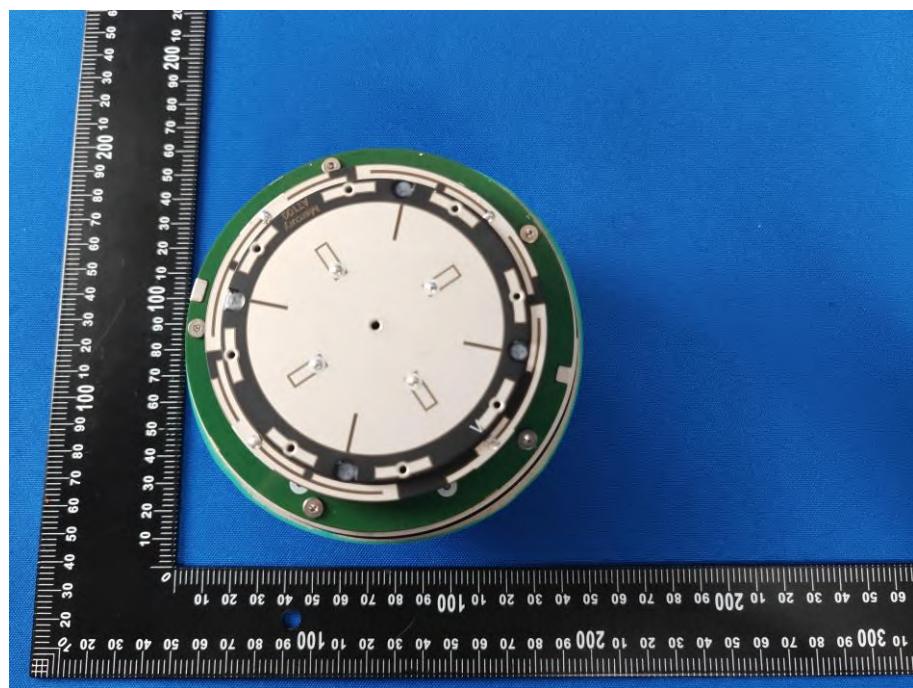
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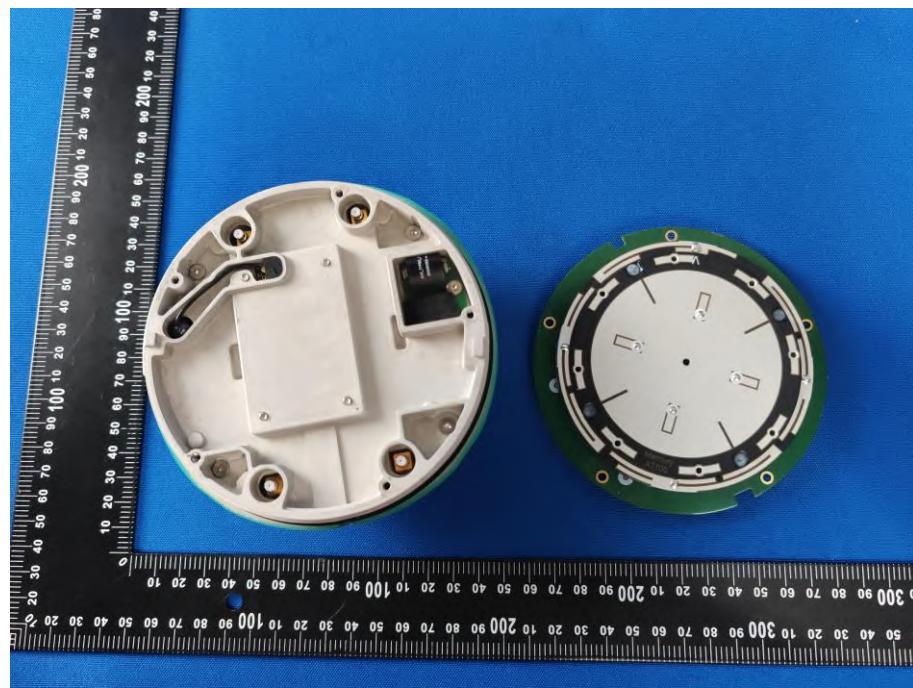
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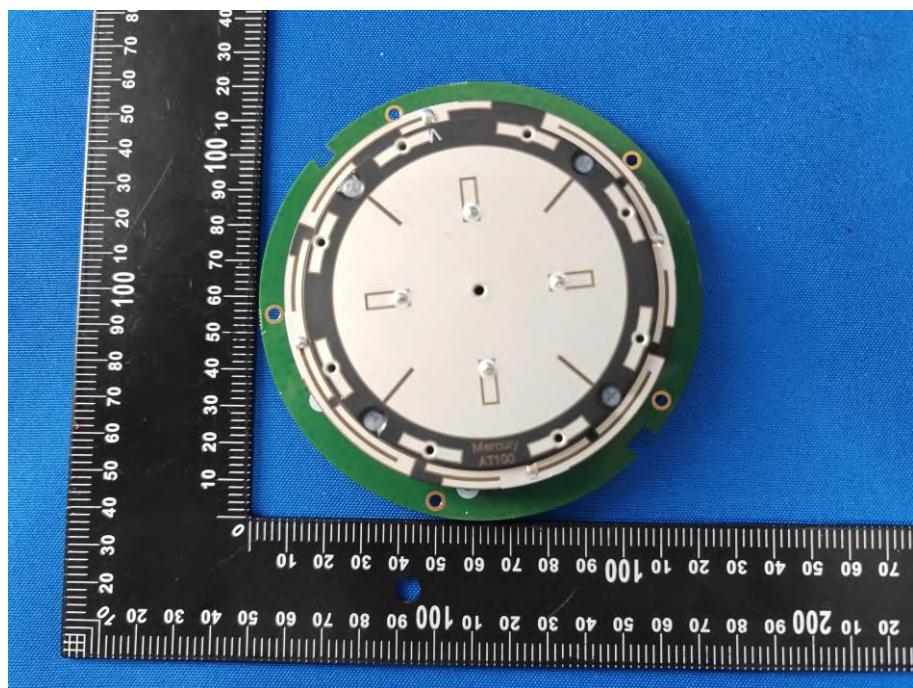
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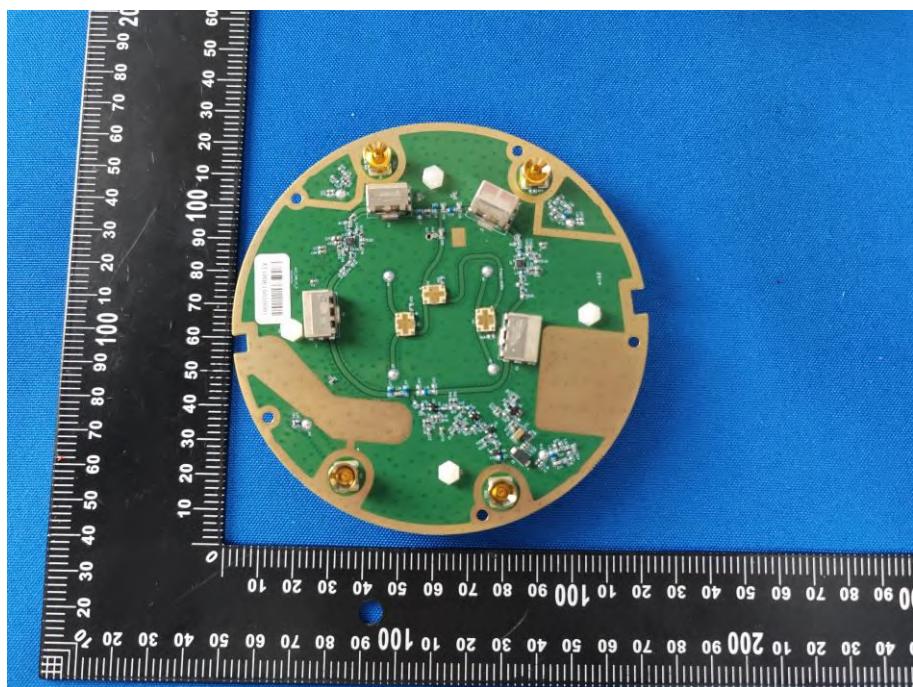
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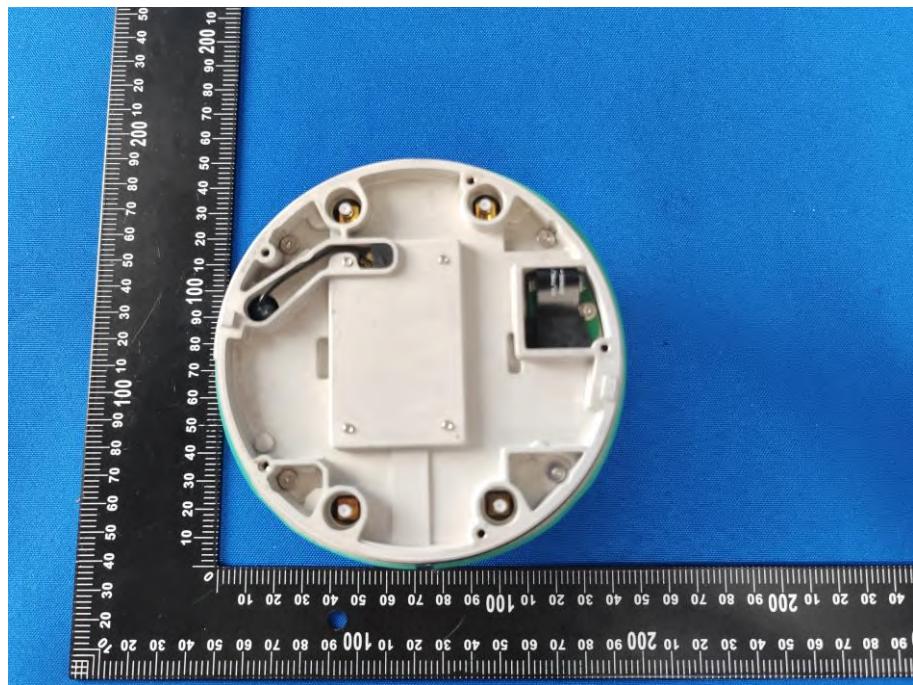


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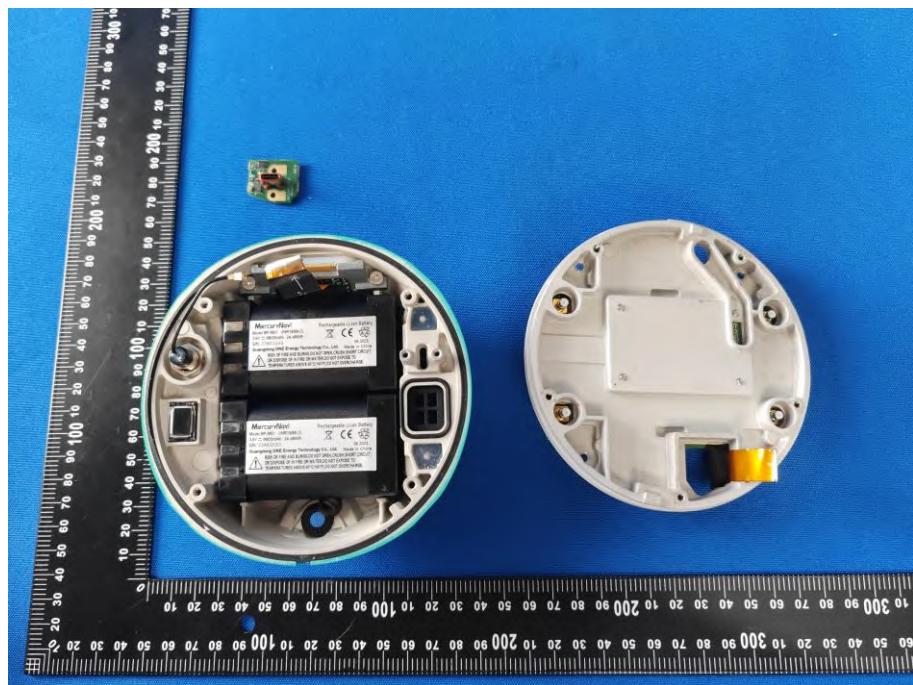


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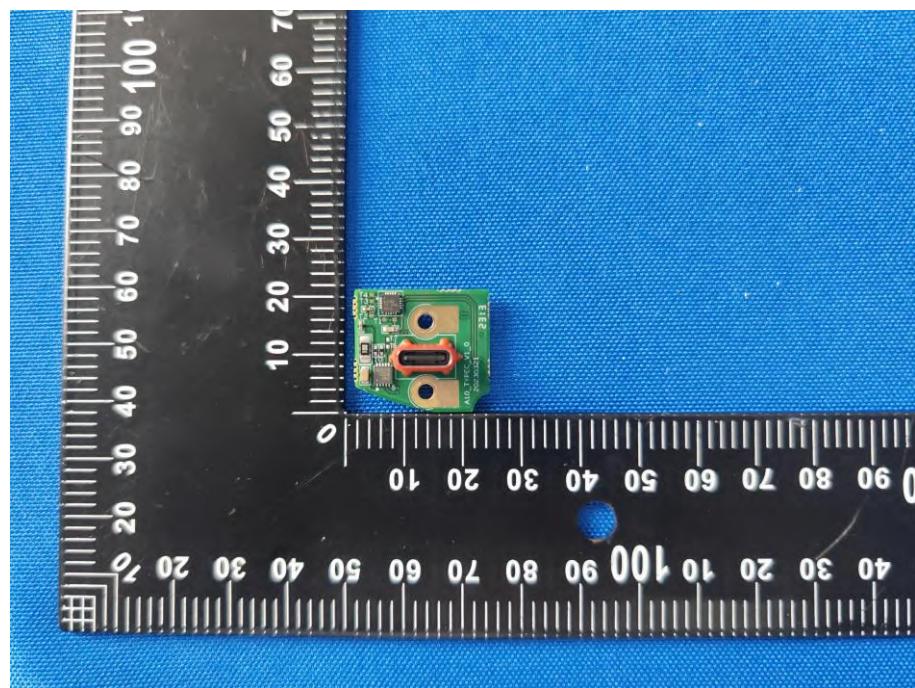




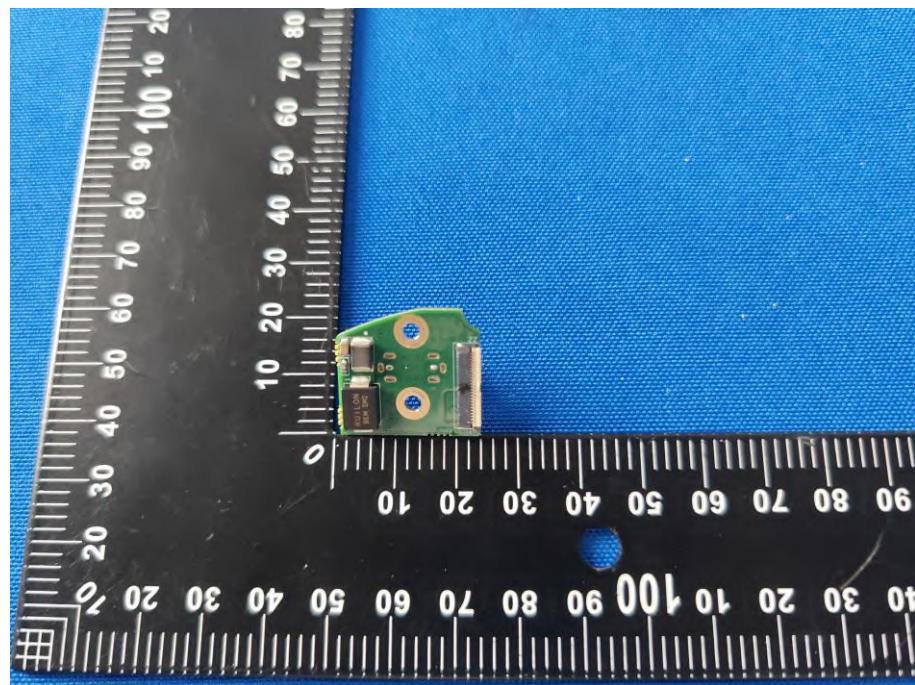
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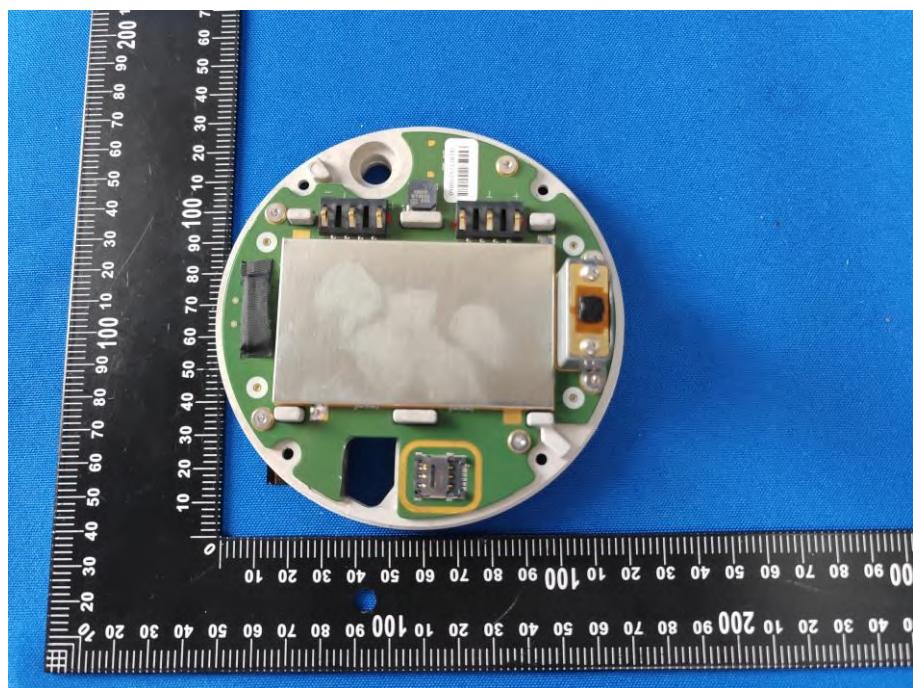
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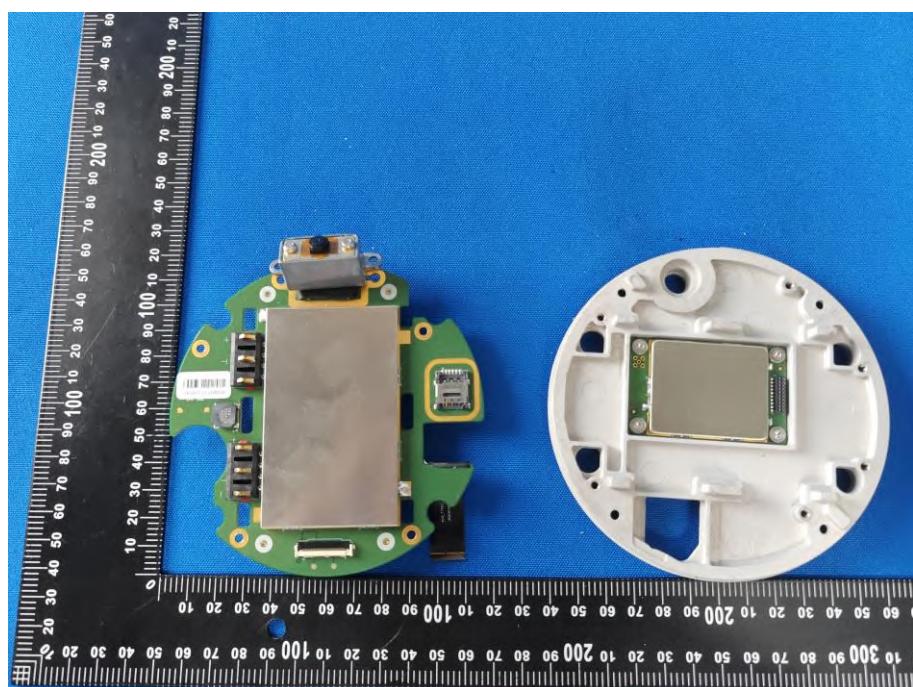
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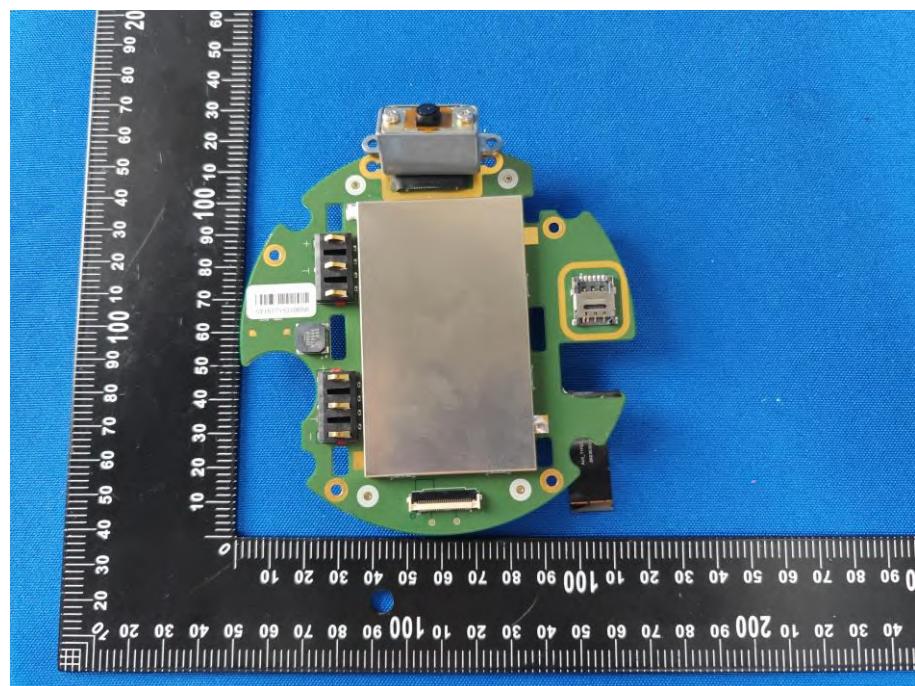
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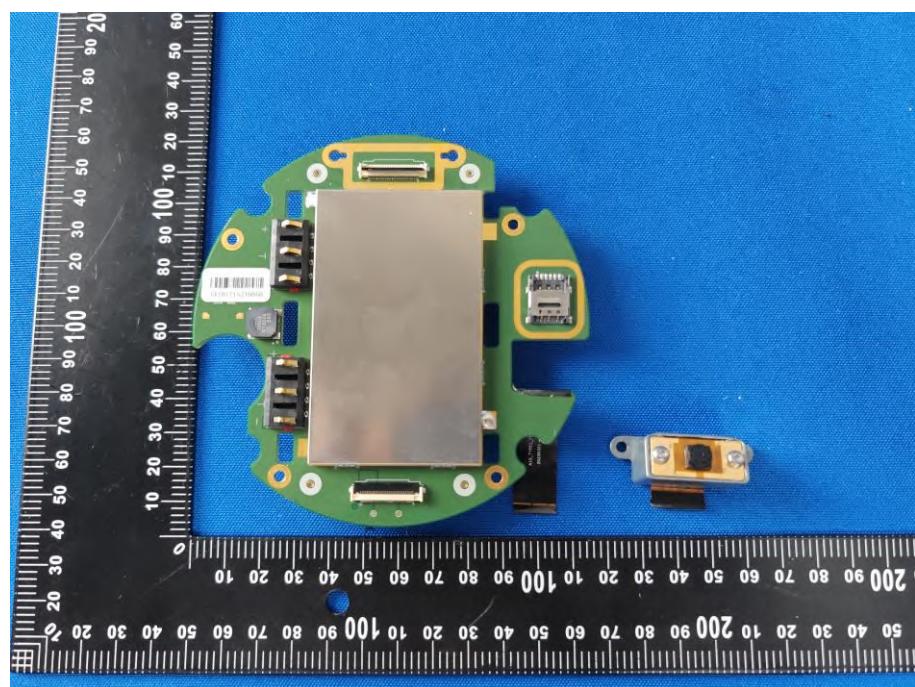
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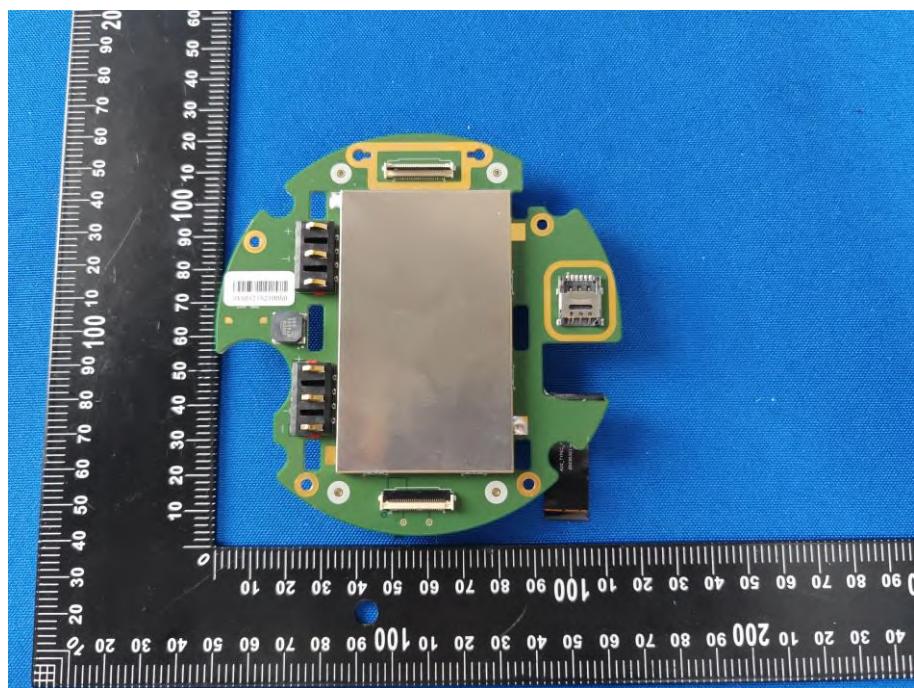
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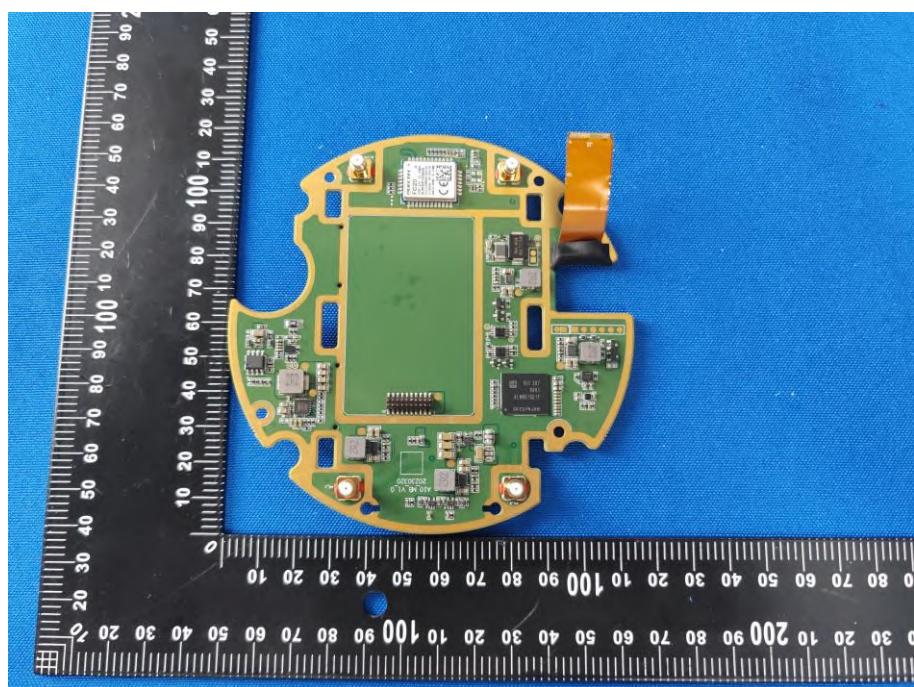
EUT View



EUT View



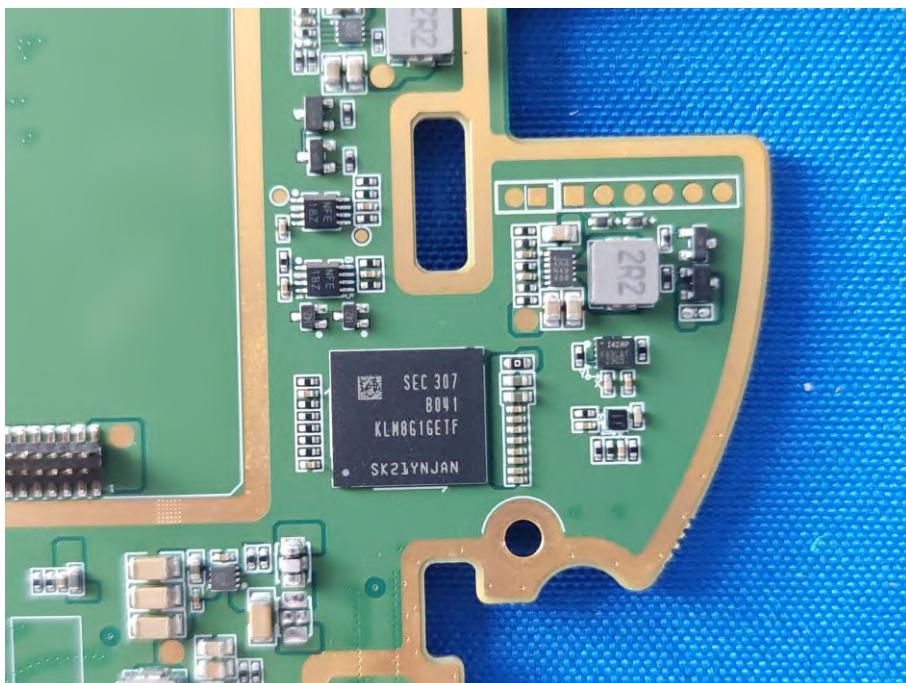
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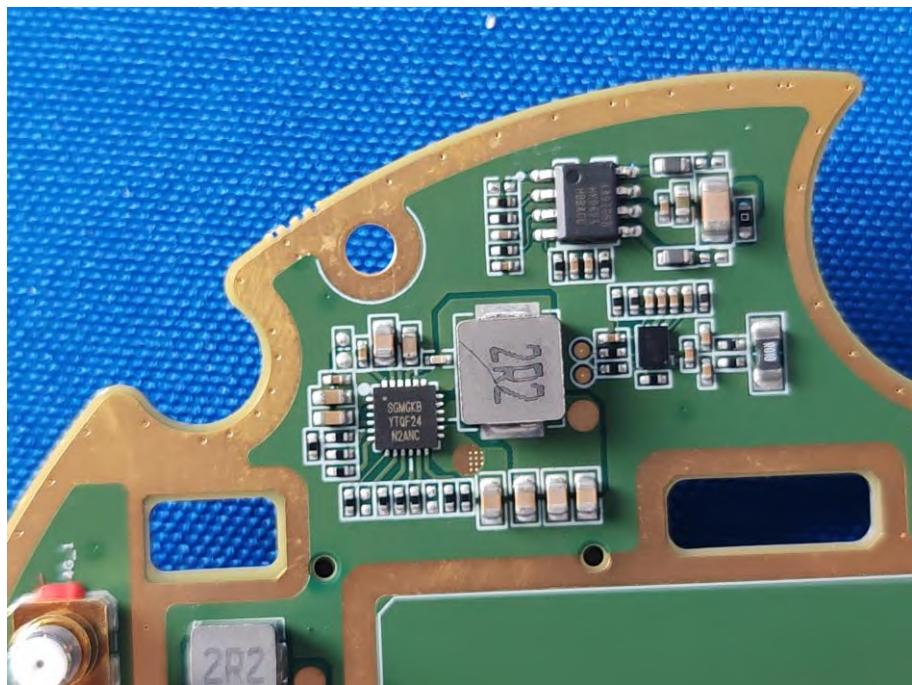
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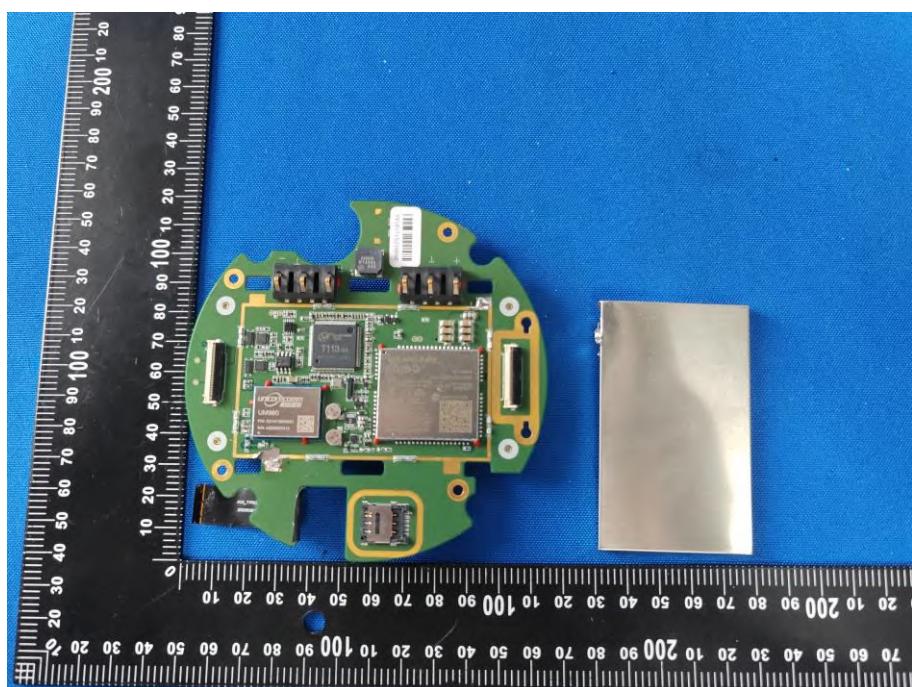
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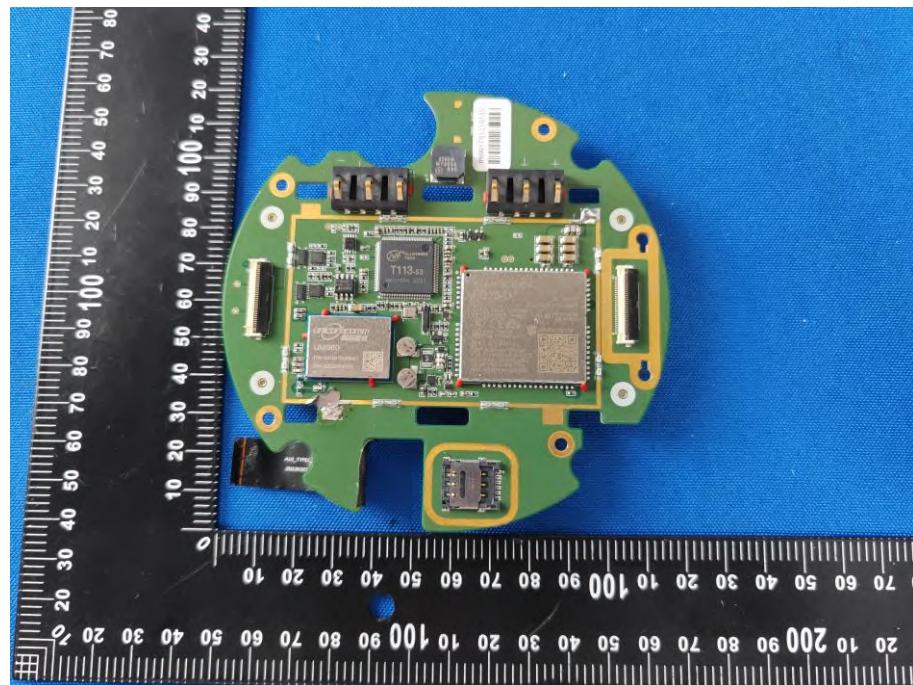
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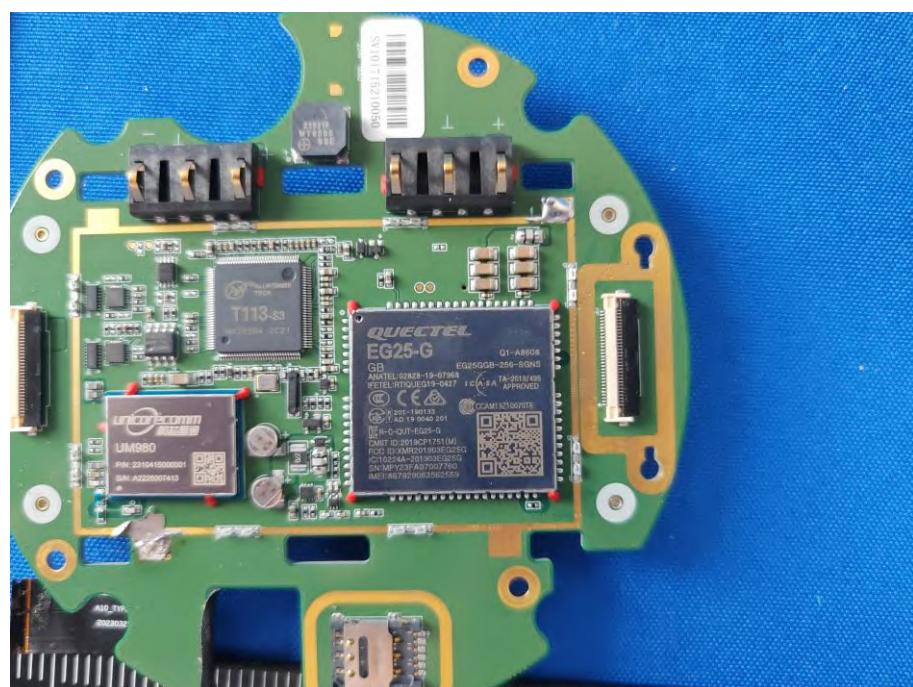
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EUT View



EUT View



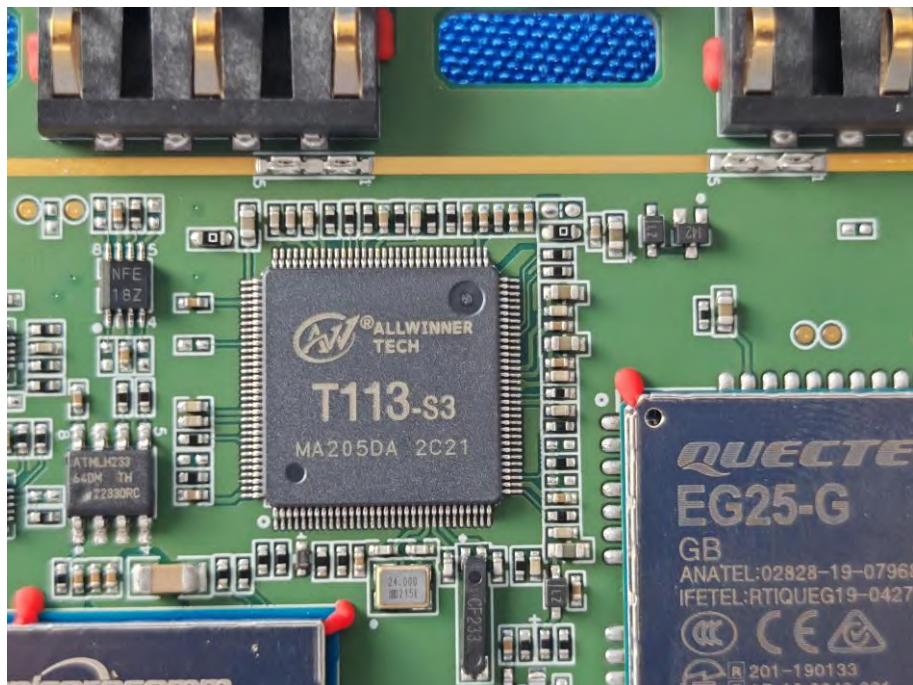
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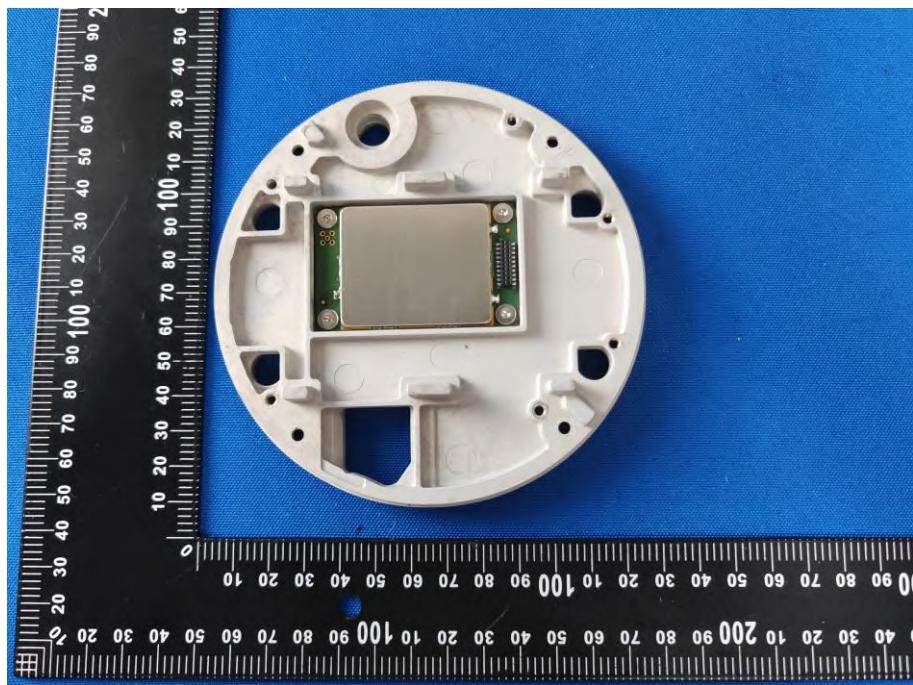
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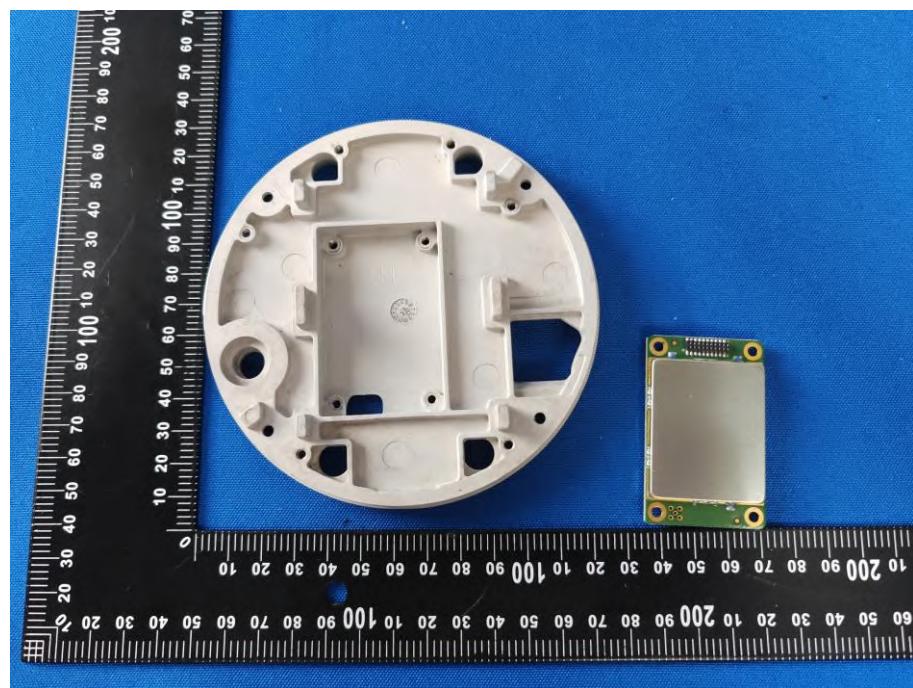
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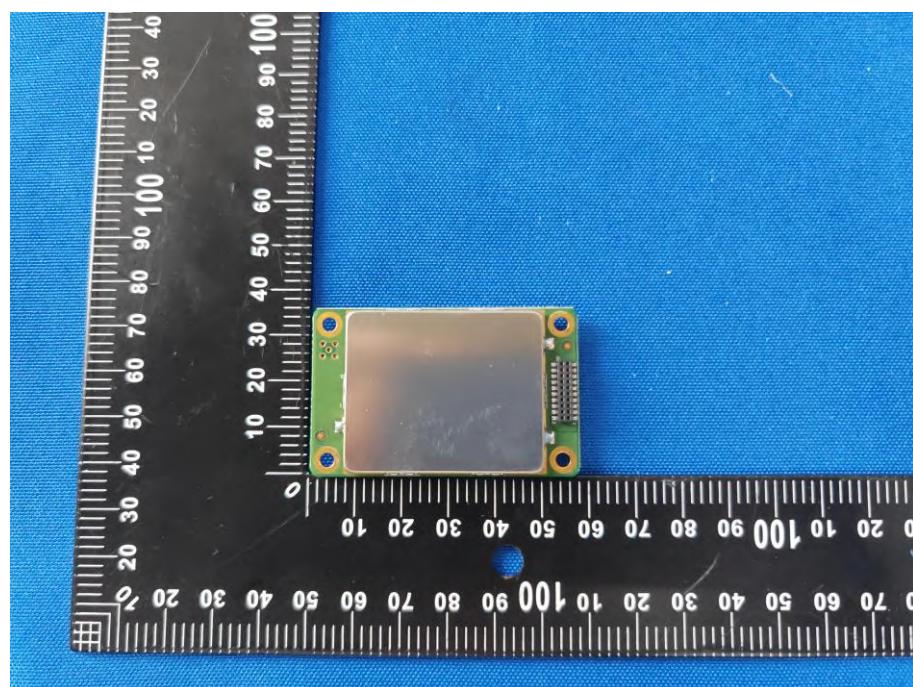
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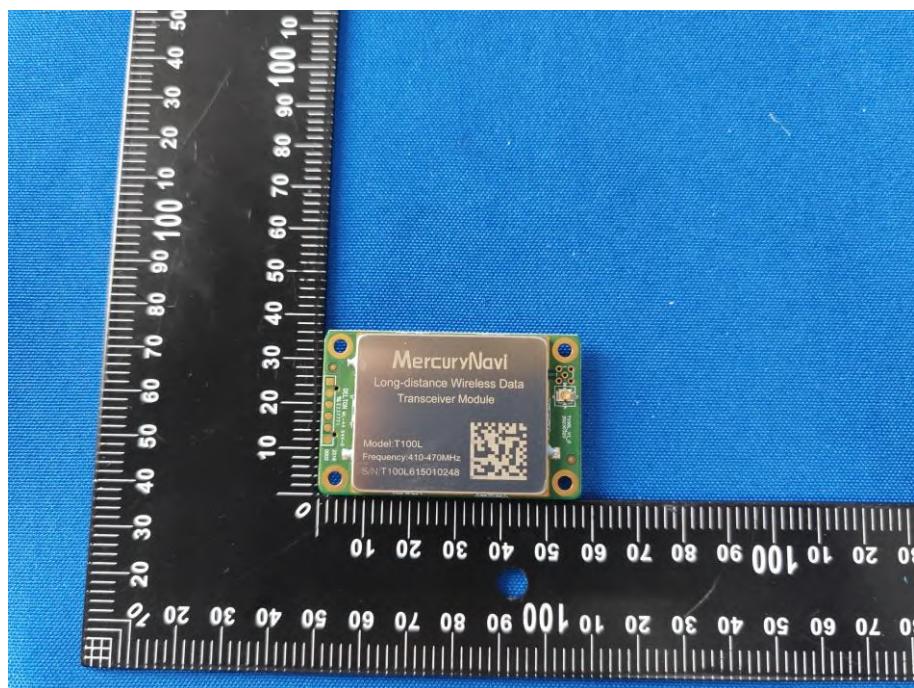
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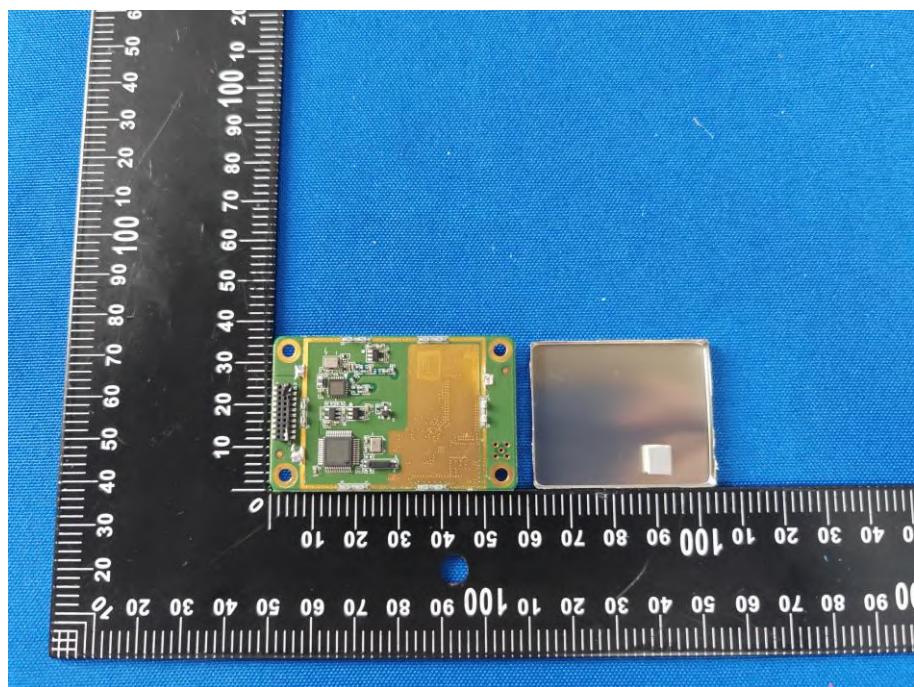
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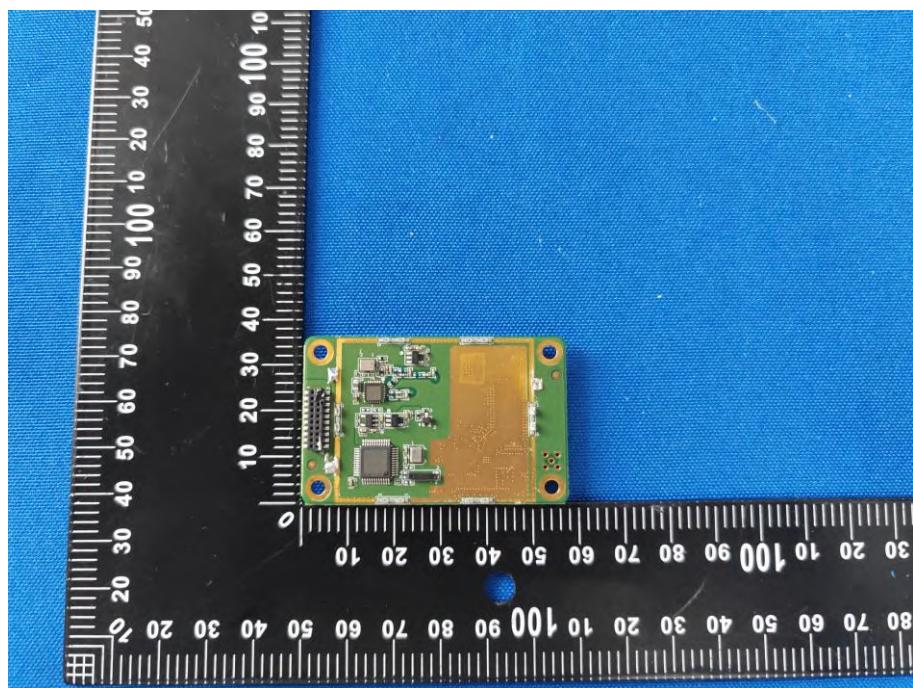
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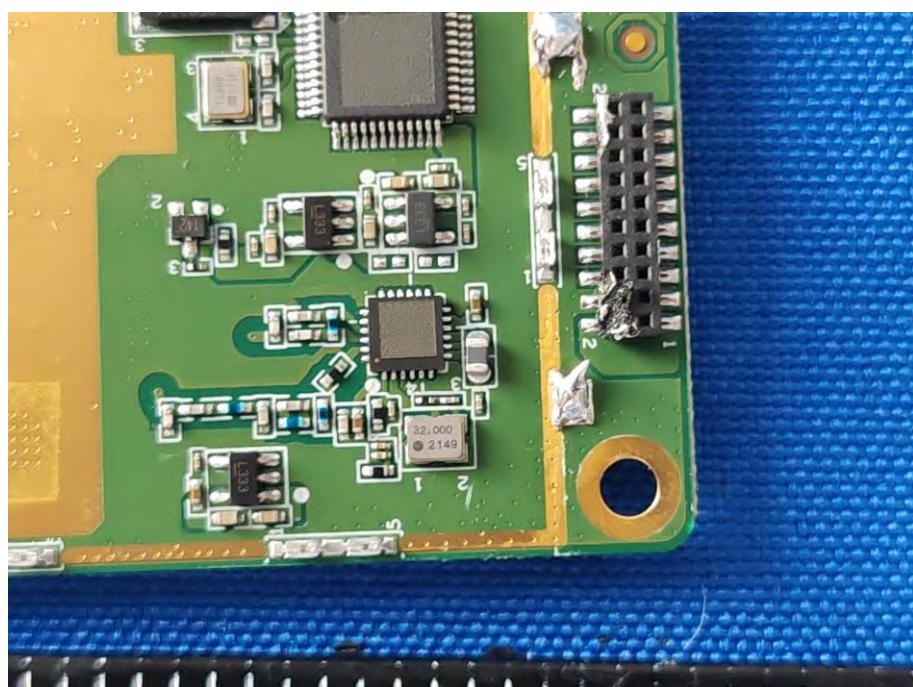
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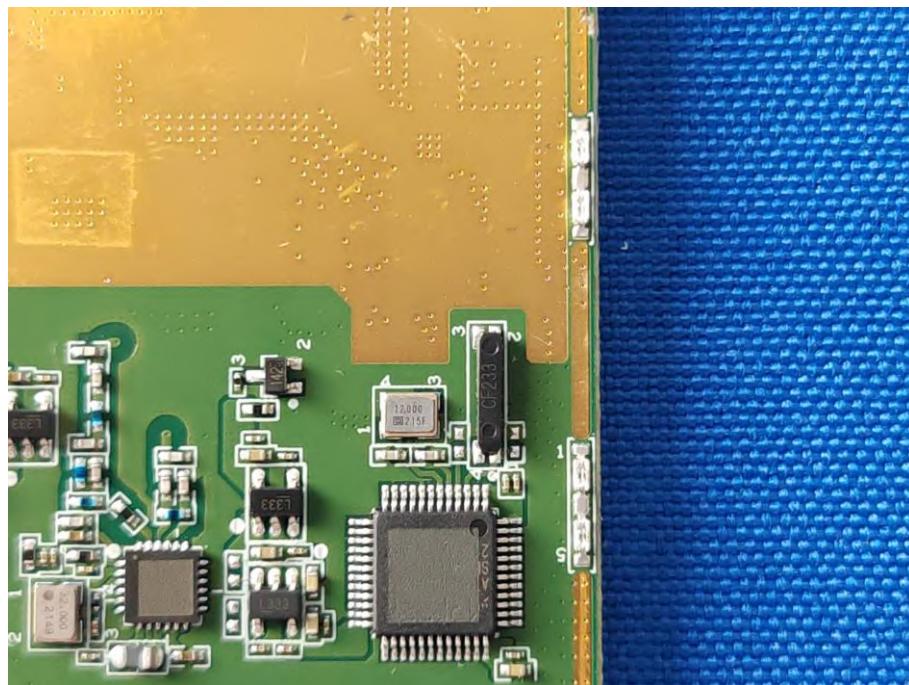
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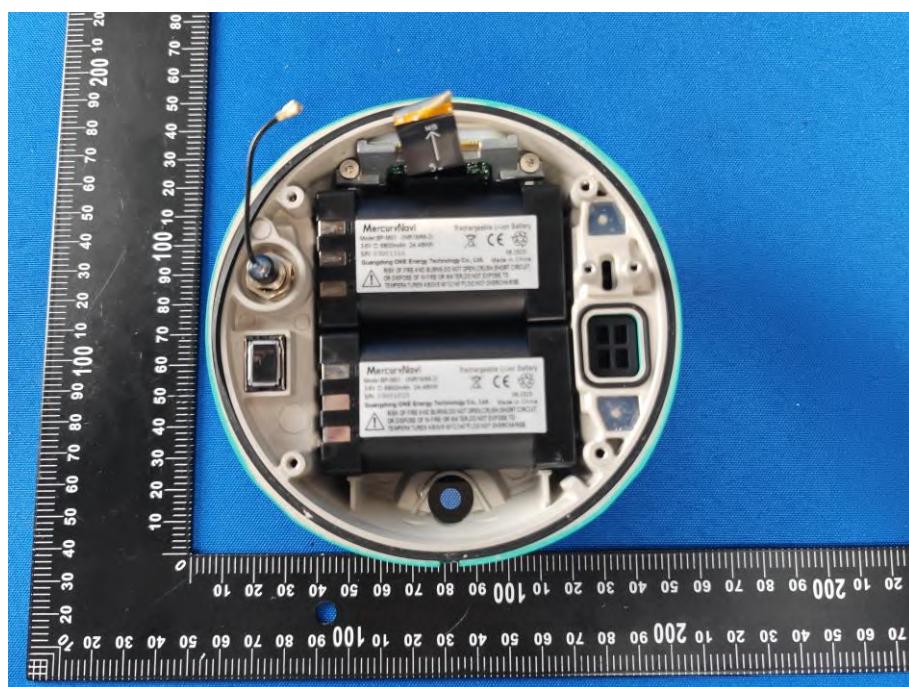
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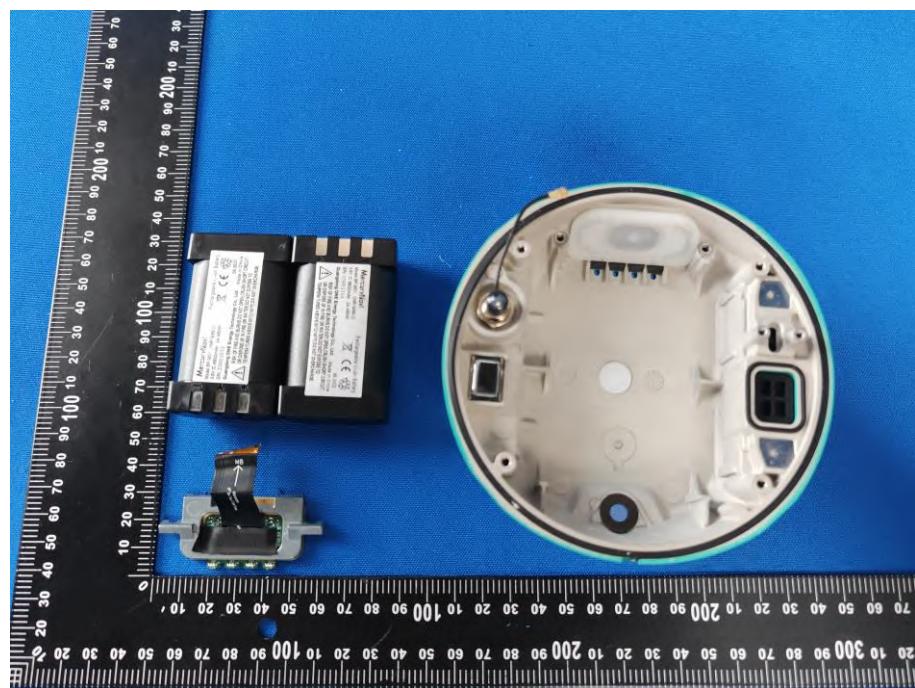
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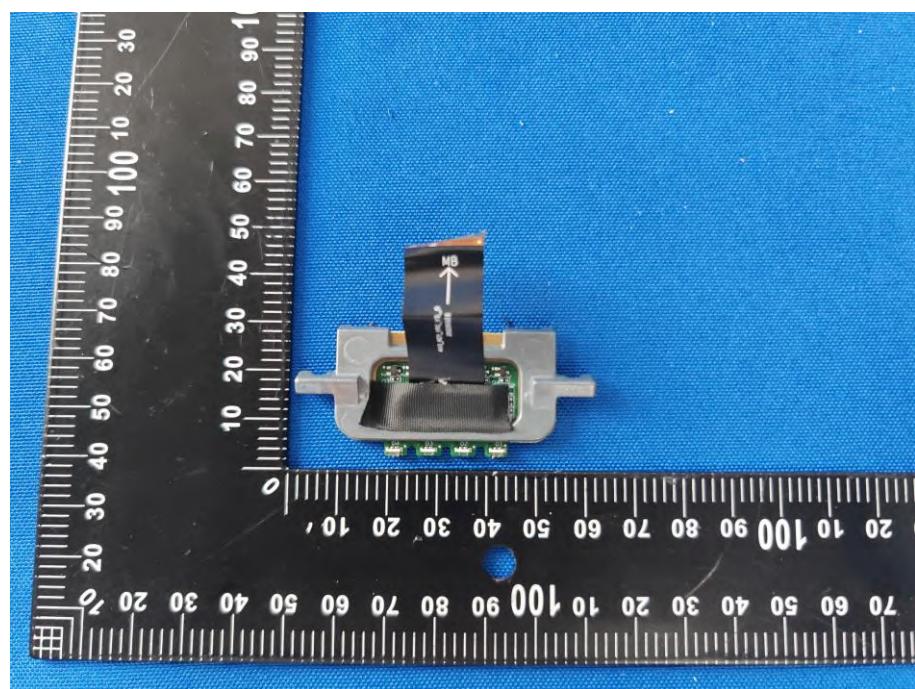
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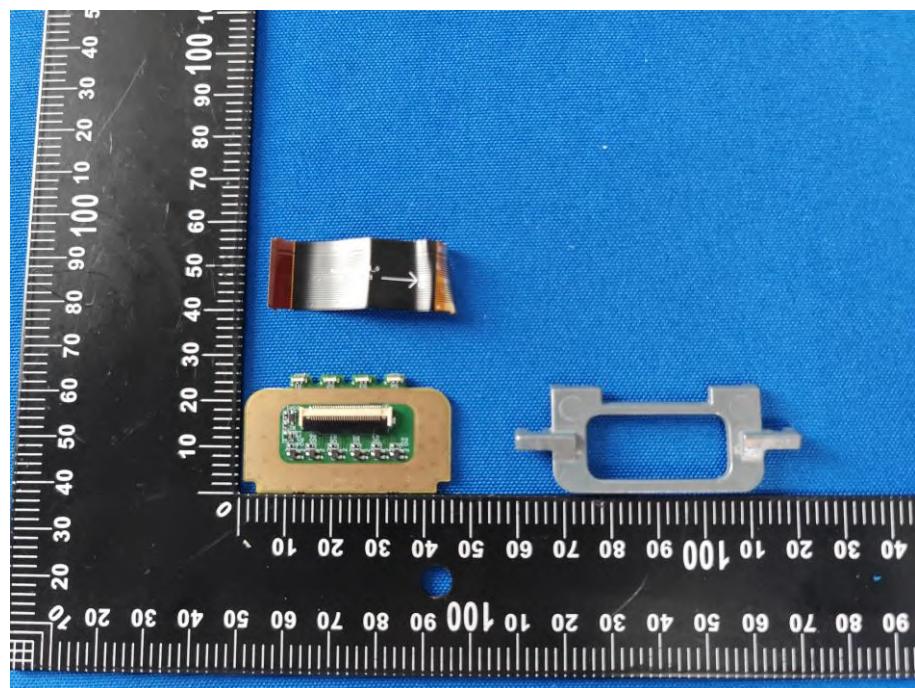
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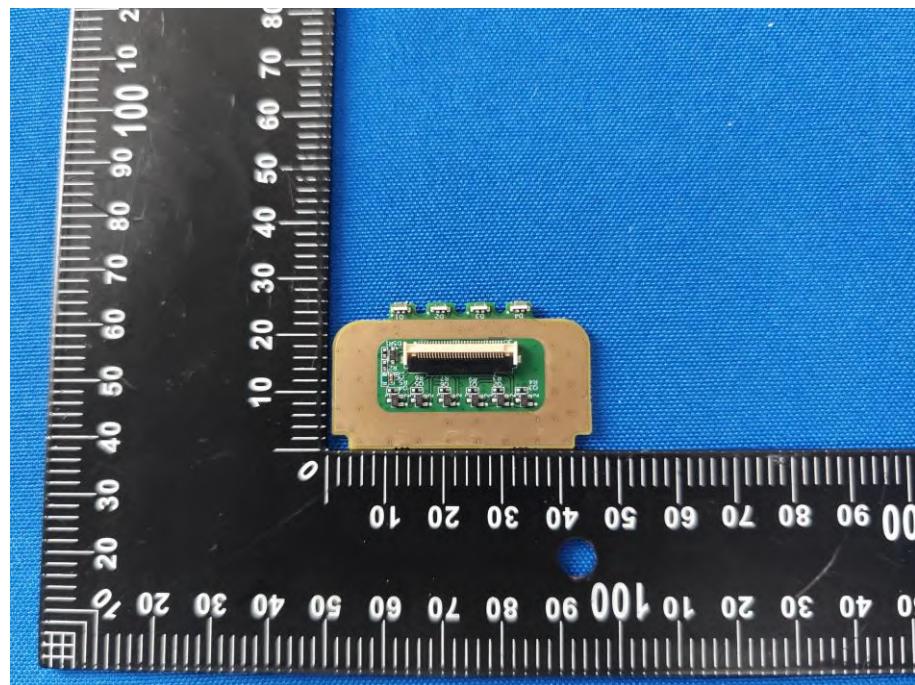
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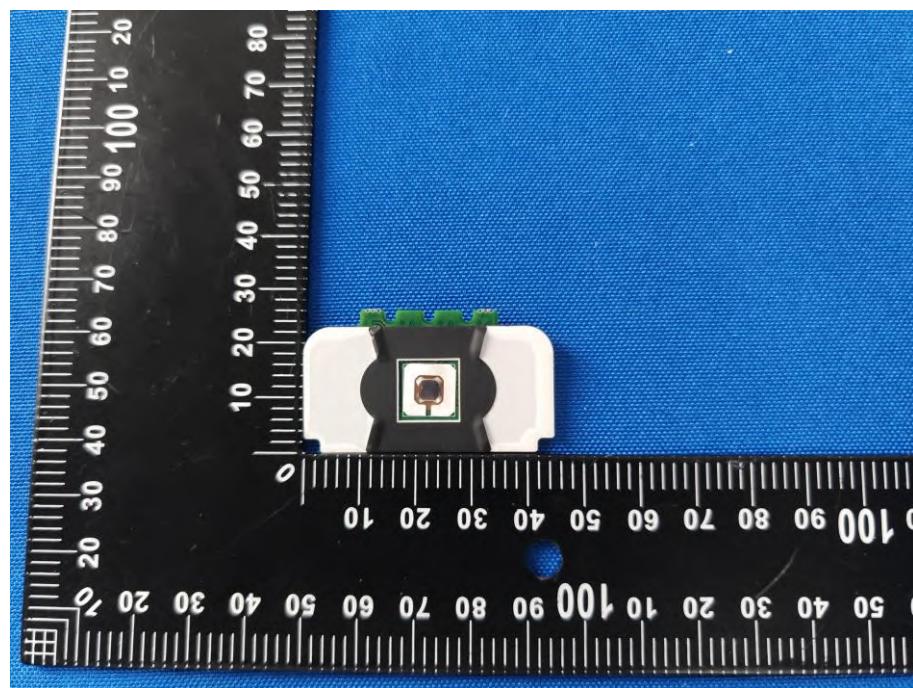


EUT View



EUT View

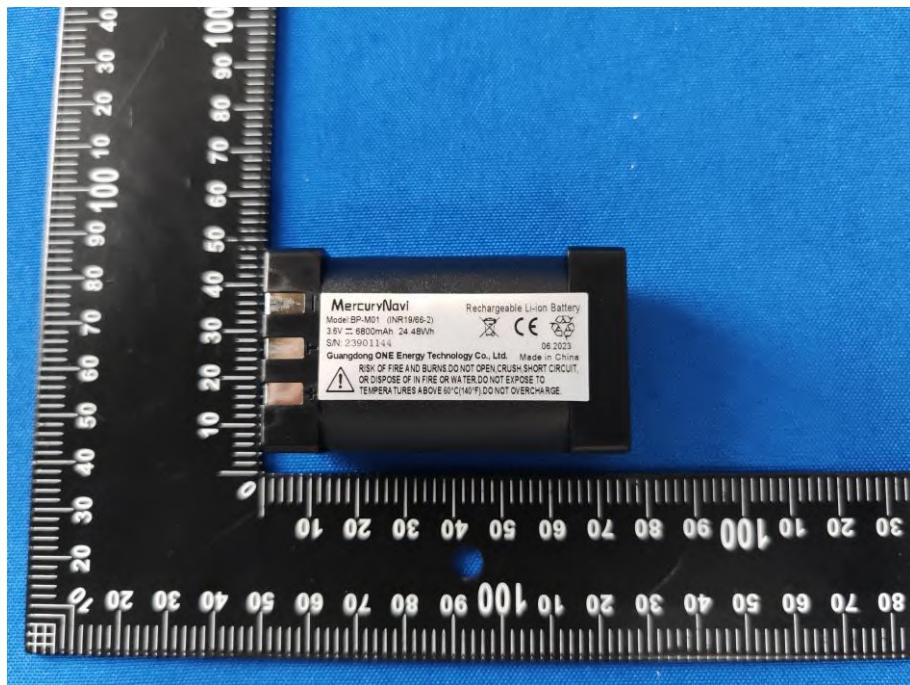




EUT View



EUT View



EUT View



EUT View

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