



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

EMC-TRF-01 Rev 1.0

Report No.: GZEM211100686101
Page: 1 of 16

TEST REPORT

Application No.:	GZEM2111006861AT
Applicant:	Shanghai Xiyin Technology Co., Ltd
Address of Applicant:	Building C, No.888, Huanhu West 2nd Road, Special Area of China (Shanghai) Pilot Free Trade Zone, Shanghai, China
Manufacturer:	Shanghai Xiyin Technology Co., Ltd
Address of Manufacturer:	Building C, No.888, Huanhu West 2nd Road, Special Area of China (Shanghai) Pilot Free Trade Zone, Shanghai, China
Factory:	Shanghai Xiyin Technology Co., Ltd
Address of Factory:	Building C, No.888, Huanhu West 2nd Road, Special Area of China (Shanghai) Pilot Free Trade Zone, Shanghai, China
Equipment Under Test (EUT):	
EUT Name:	CS20
Model No.:	CS20
Standard(s) :	47 CFR Part 15, Subpart B
Date of Receipt:	2021-11-16
Date of Test:	2021-12-21
Date of Issue:	2021-12-27
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian
EMC Laboratory Manager



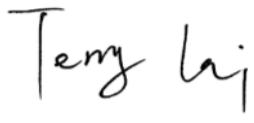
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-12-27		Original

Authorized for issue by:			
	 <u>Yumiko Zhan</u> <u>Yumiko Zhan/Project Engineer</u>		
	 <u>Terry Lai</u> <u>Terry Lai/Reviewer</u>		

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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

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4 General Information

4.1 Details of E.U.T.

Power supply: DC 5V 0.5A
Highest operating frequency:
below 108MHz
Cable(s): USB cable:1.0 m unshielded

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ
Note Book Computer	LENOVO	Lenovo Xiaoxinchao 5000	PF0TNMG8
Note Book Computer	LENOVO	Lenovo Xiaoxinchao 5000	PF0TLJX7

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions (30MHz-1GHz)	5.00dB (30MHz-1GHz):3m; 4.38dB (30MHz-1GHz):10m
Remark: The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

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No tests were sub-contracted.

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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IEC60061 and Rules of procedure IEC60062, and the relevant IEC60065 CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Trilog Broadband Antenna (25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05

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6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Limit:

Class B

Test Distance: 10m

30MHz -88MHz 29.5(dB μ V/m) quasi-peak88MHz-216MHz 33.1(dB μ V/m) quasi-peak216MHz-960MHz 35.6(dB μ V/m) quasi-peak960MHz-1000MHz 43.5(dB μ V/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to1000MHz

6.1.1 E.U.T. Operation

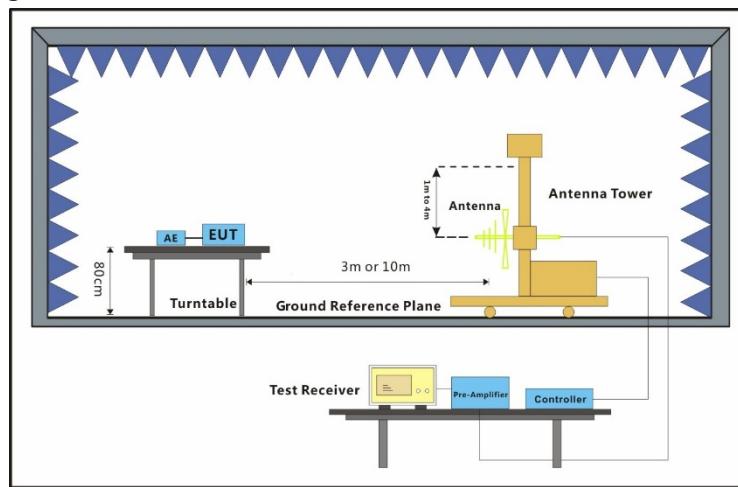
Operating Environment:

Temperature: 23.0 °C Humidity: 55.7 % RH Atmospheric Pressure: 1022 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in operating normally mode.
Pre-scan	01	Test the EUT in standby mode.

6.1.3 Test Setup Diagram



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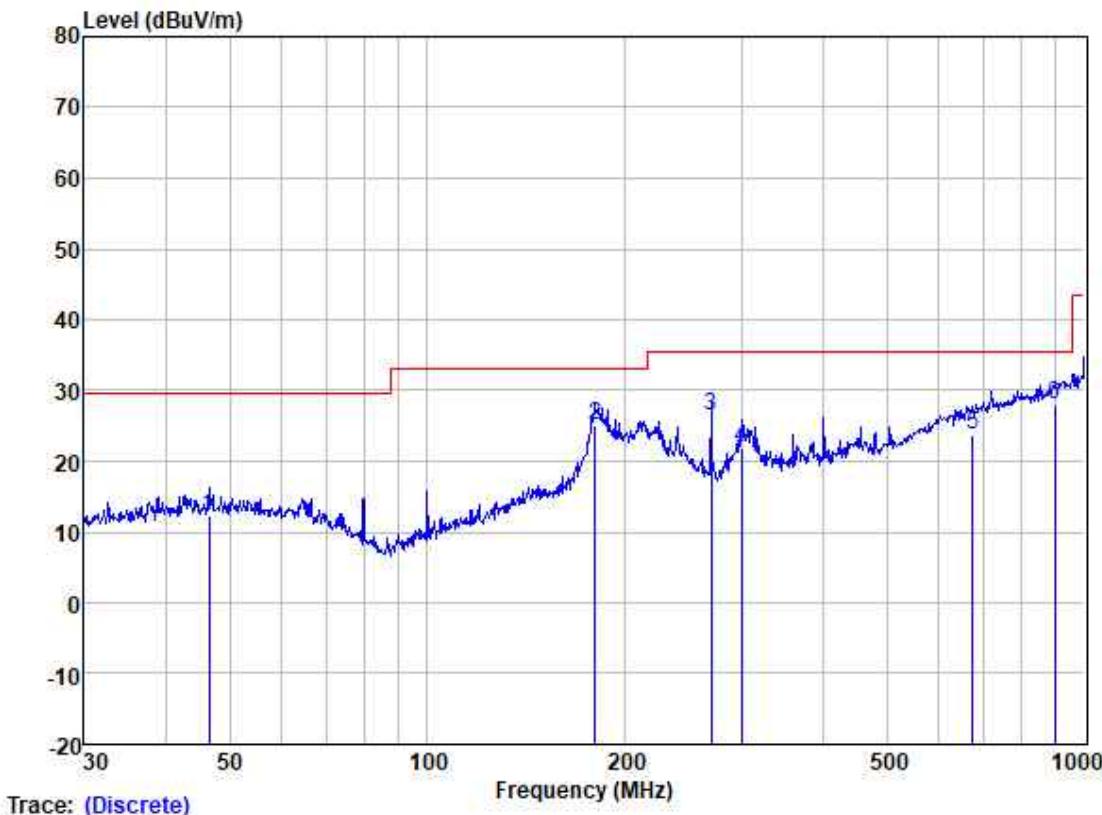
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6.1.4 Measurement Procedure and Data

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

Test Mode: 00; Polarity: Horizontal



Site : SGS
Job :
Model :
Power :
Test Mode : RT

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 46.50	24.42	13.92	1.13	27.17	12.30	29.50	-17.20	HORIZONTAL	QP
2 180.02	37.44	12.00	2.44	26.75	25.13	33.10	-7.97	HORIZONTAL	QP
3 270.37	37.23	12.70	3.04	26.58	26.39	35.60	-9.21	HORIZONTAL	QP
4 300.37	31.58	13.60	3.16	26.56	21.78	35.60	-13.82	HORIZONTAL	QP
5 675.21	25.54	20.75	5.65	28.17	23.77	35.60	-11.83	HORIZONTAL	QP
6 900.15	25.68	23.30	6.92	27.85	28.05	35.60	-7.55	HORIZONTAL	QP

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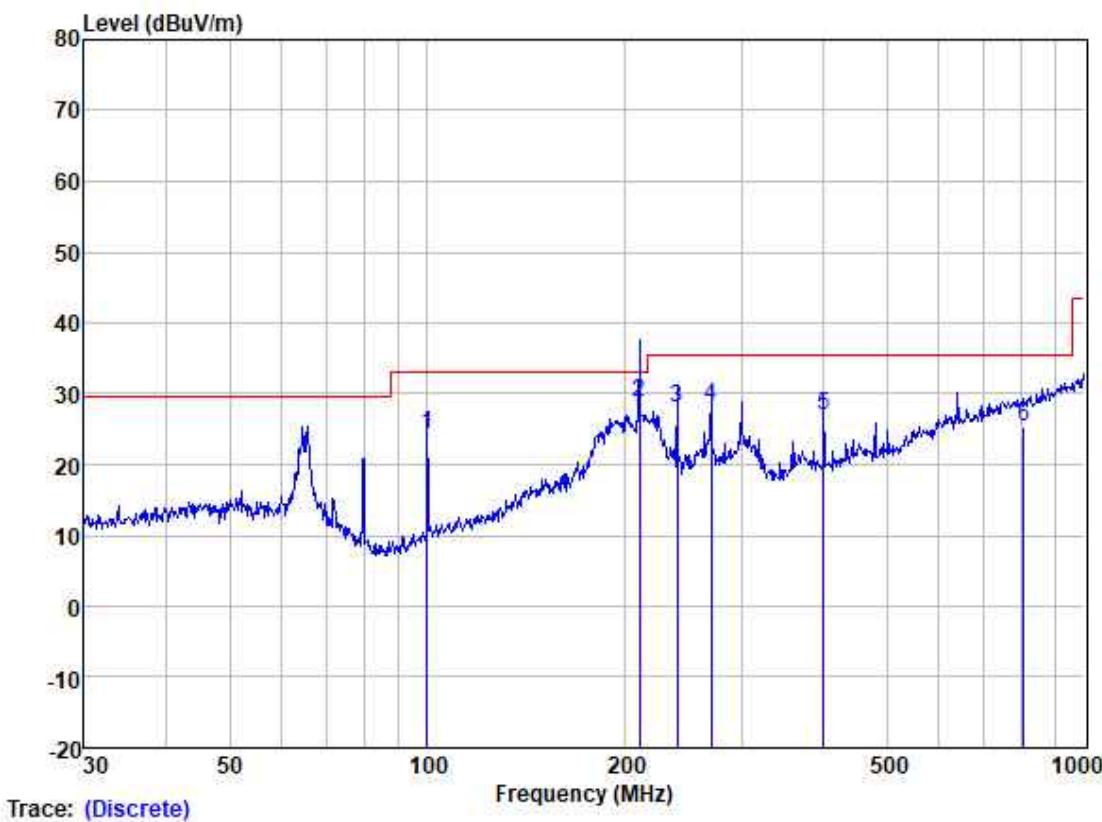
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Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode : RT

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	99.88	40.59	9.10	1.73	27.08	24.34	33.10	-8.76	VERTICAL QP
2	210.08	43.10	9.80	2.59	26.72	28.77	33.10	-4.33	VERTICAL QP
3	239.99	40.00	11.90	2.81	26.66	28.05	35.60	-7.55	VERTICAL QP
4	270.37	39.14	12.70	3.04	26.58	28.30	35.60	-7.30	VERTICAL QP
5	400.43	34.50	15.70	3.93	27.33	26.80	35.60	-8.80	VERTICAL QP
6	807.43	24.40	22.68	6.23	28.02	25.29	35.60	-10.31	VERTICAL QP

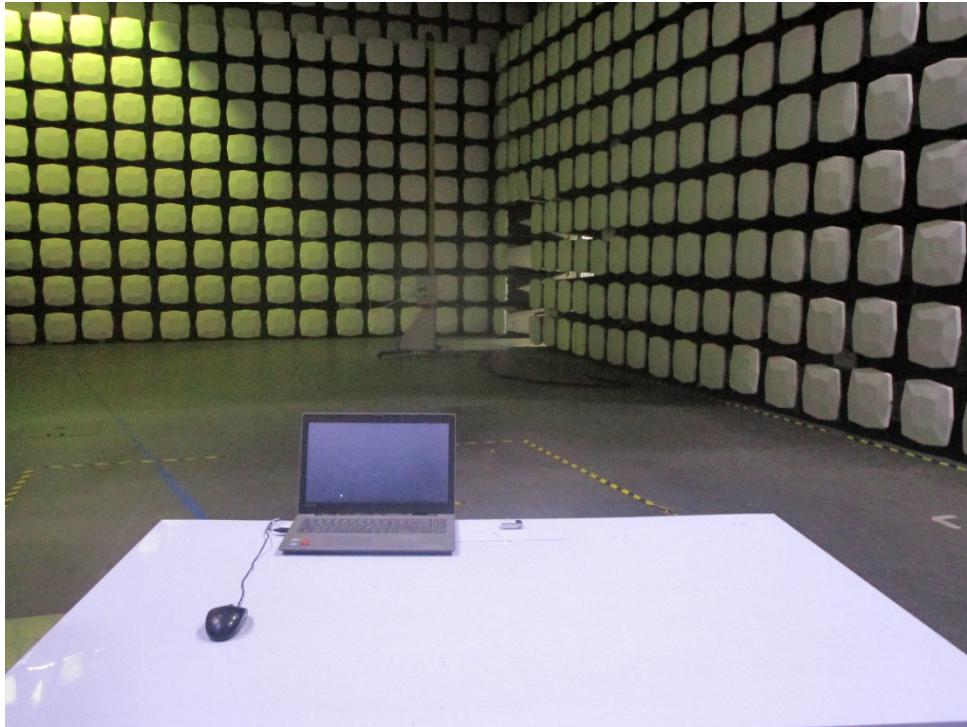
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7 Test Setup Photo

Radiated Emissions (30MHz-1GHz)

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8 EUT Constructional Details (EUT Photos)

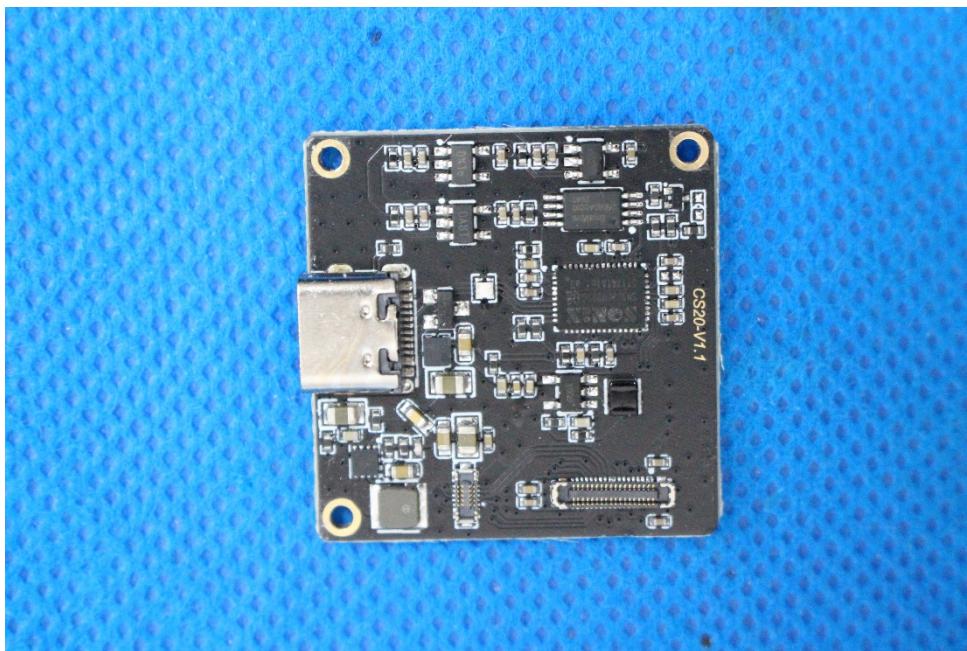
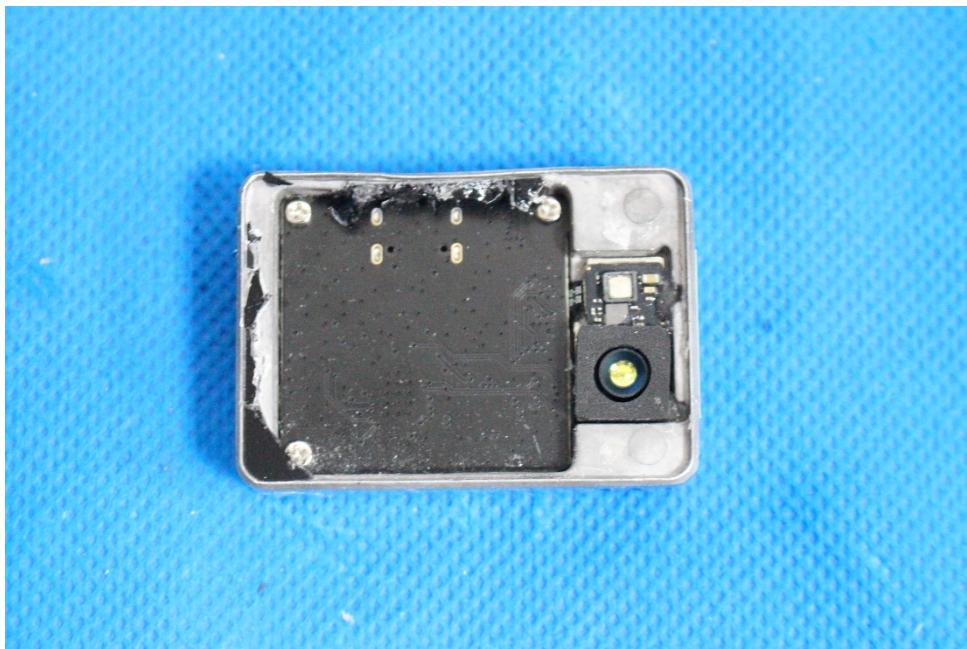


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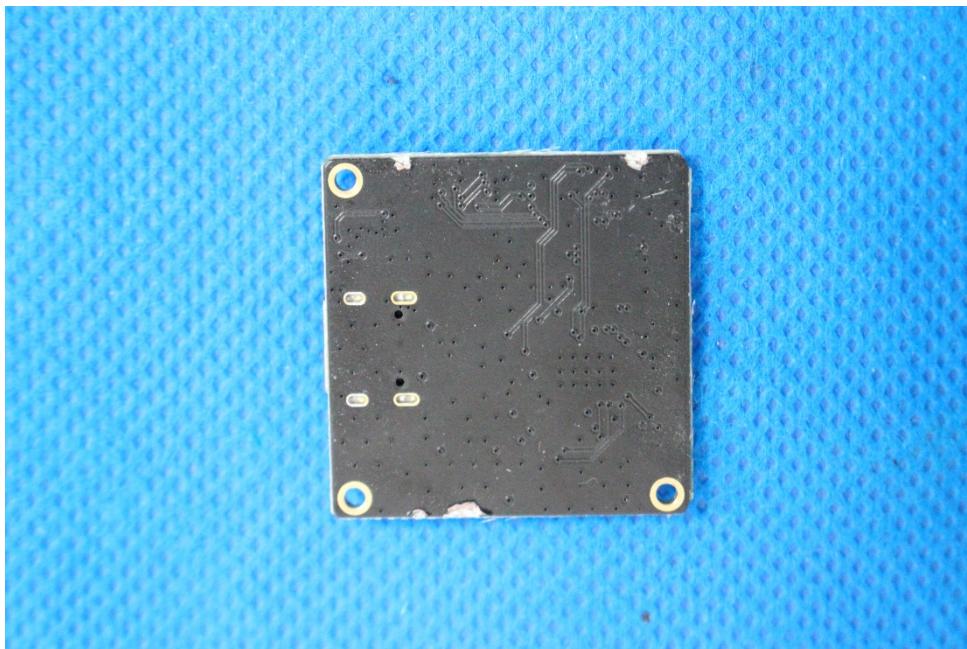


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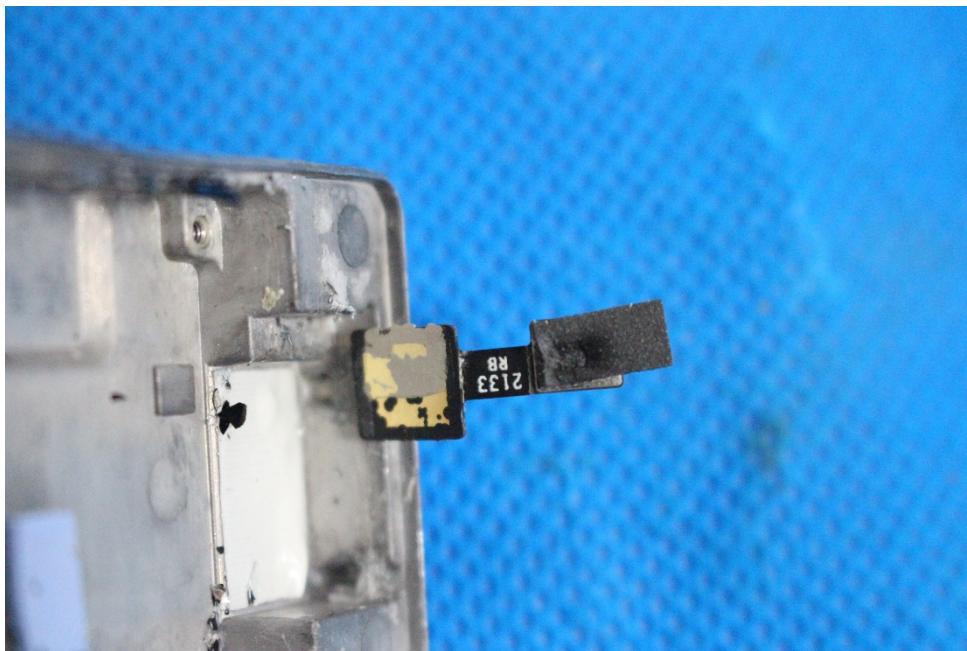


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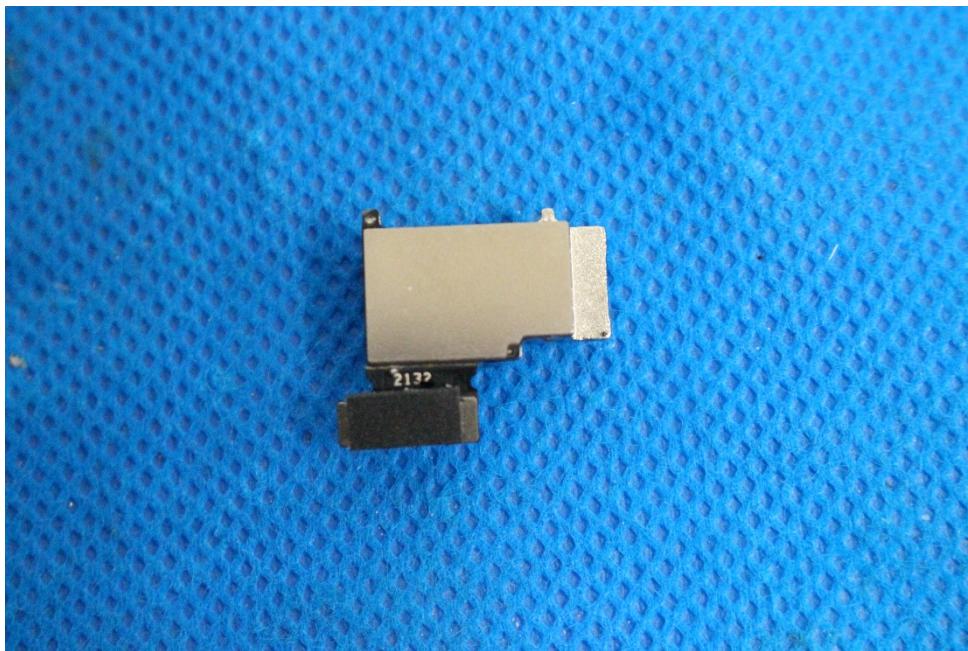


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- End of the Report -



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