



Bluetooth® Qualification

RF Test Report

For

myFirst Tech Asia Pte. Ltd.

myFirst Fone S3

Test Model: KW1401

Prepared for : myFirst Tech Asia Pte. Ltd.
Address : 31 Woodlands Close, #01-22 Woodlands Horizon, Singapore 737855

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : February 07, 2025
Number of tested samples : 2
Sample number : A250205024-1, A250205024-2
Serial number : Prototype
Date of Test : February 07, 2025 ~ April 30, 2025
Date of Report : April 30, 2025



**RF TEST REPORT****Report Reference No. : LCSA02065057EB**

Date of Issue..... : April 30, 2025

Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Baoan District, Shenzhen, China

Applicant's Name..... : myFirst Tech Asia Pte. Ltd.

Address..... : 31 Woodlands Close, #01-22 Woodlands Horizon, Singapore 737855

Test SpecificationSpecification Name : Bluetooth Core Specification
RFPHY.TS.p23
RF.TS.p35**Test Report Form No..... : TRF-4-E-131 A/0**

TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2023-1

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EUT Description..... : myFirst Fone S3

Test Model..... : KW1401

Trade mark..... : myFirst

Ratings..... : Input: DC 5V

Battery: DC 3.8V

Result : **Positive****Compiled by:****Supervised by:****Approved by:**

Martin Lee/ File administrators

Cary Luo/ Technique principal

Gavin Liang/ Manager



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**TEST REPORT****Test Report No. : LCSA02065057EB****April 30, 2025****Date of issue**

EUT..... : myFirst Fone S3

Test Model..... : KW1401

Applicant..... : myFirst Tech Asia Pte. Ltd.Address..... : 31 Woodlands Close, #01-22 Woodlands Horizon, Singapore
737855

Telephone..... : /

Fax..... : /

Manufacturer..... : myFirst Tech Asia Pte. Ltd.Address..... : 31 Woodlands Close, #01-22 Woodlands Horizon, Singapore
737855

Telephone..... : /

Fax..... : /

Factory..... : /

Address..... : /

Telephone..... : /

Fax..... : /

Test Result**Positive**

The test report merely corresponds to the test sample.

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



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Revision History

Revision	Issue Date	Revisions	Revised By
000	April 30, 2025	Initial Issue	--





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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: myFirst Fone S3
Test Model	: KW1401
Series Product Name and Model Number(s)	: Product Name: myFirst Fone S3+ Model: KW1401
Difference between Series Model(s) and Tested Model	: myFirst Fone S3+ is eSIM, myFirst Fone S3 is nano SIM
Hardware Version	: ED01_MB
Software Version	: N/A
Design Description	: Smartwatches
Bluetooth Core Specification Version	: V4.2
Supported Bluetooth Core Configuration(s)	: BR/EDR/LE

1.2. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

CNAS Registration Number is L4595.

The laboratory is recognized as **Bluetooth** Qualification Test Facility (BQTF) by Bluetooth SIG.

1.3. Test Environment Condition

Ambient Pressure	101KPa
Ambient Temperature	22.5°C
Ambient Relative Humidity	52.8%





1.4. Statement

Following statements is essential part of this test report and shall be kept in mind on reading this test report:

1. The test results presented in this test report apply only to the particular Design under test (DUT) specified in Section 2 of this report, for the functionalities described in the Protocol Implementation Conformance Statement (PICS), as presented for tests with the declared Protocol Implementation Extra Information for testing (PIXIT).
2. This test report does not constitute or imply, by its own, to be an approval of the Design by Qualification Bodies/Experts/Consultants, Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without written approval of the Test Facility.
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6. Abbreviations in this report:

Pass, P = passed

Fail, F = failed

N/A = not applicable

NT = not tested

LE = Low Energy

BR = Basic Rate

EDR = Enhanced Data Rate

DUT = Design under test

PICS = Protocol Implementation Conformance Statement

PIXIT = Protocol Implementation Extra Information for Testing



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2. REFERENCED DOCUMENTS AND SUMMARY OF TESTS

2.1. Referenced Bluetooth Specifications

Specification Name	Version	Issue Date
Bluetooth Core Specification	4.2	02-Dec-2014
	5.0	06-Dec-2016
	5.1	25-Dec-2018
	5.2	31-Dec-2019
	5.3	13-Jul-2021
	5.4	31-Jan-2023
	6.0	27-Aug-2024

2.2. Referenced Bluetooth Test Specifications

Test Specification Name	Revision	Issue Date
Test Case Reference List (TCRL)	2025-1	18-February-2025
Radio Frequency (RF) Bluetooth® Test Suite	RF.TS.p35	18-February-2025
Radio Frequency Physical Layer (RF PHY) Bluetooth® Test Suite	RFPHY.TS.p23	18-February-2025

2.3. Summary of Test Results

Test Content	Test Result	Remark
RF	PASS	refer to Section 4 for details
RFPHY	PASS	refer to Section 4 for details



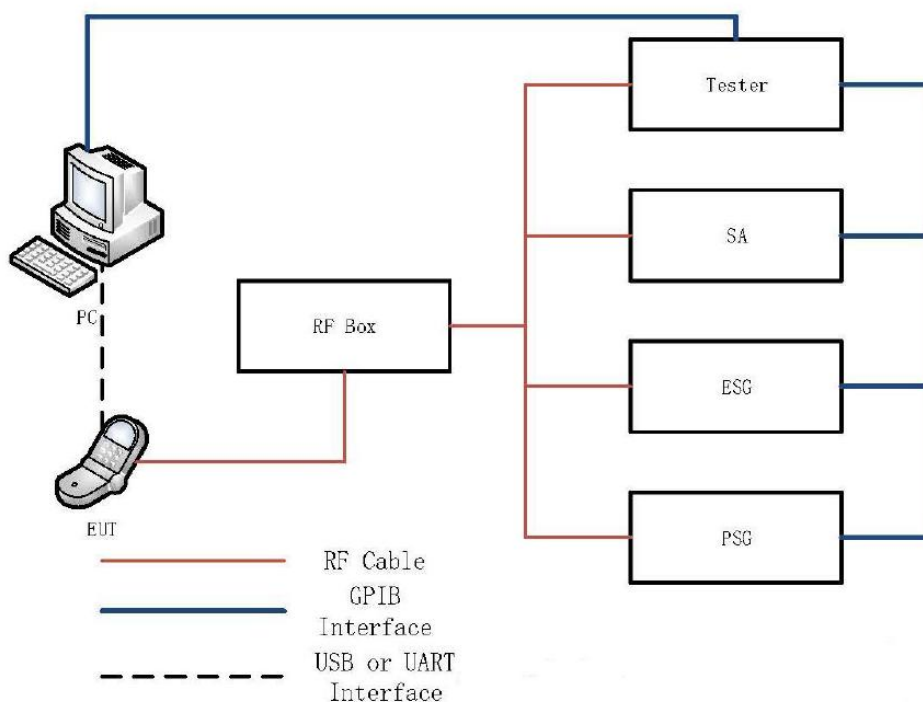


3. DETAILS OF TEST CONFIGURATION

3.1. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Wideband Radio Communication Tester	R&S	CMW270	100377	2024-10-08	2025-10-07
2	MXA Signal Analyzer	Agilent	N9020A	MY59140060	2024-06-06	2025-06-05
3	Signal Analyzer	R&S	SMR20	100861	2024-10-08	2025-10-07
4	Signal Analyzer	Agilent	E4438C	US41461489	2024-06-06	2025-06-05
5	Switch Unit	CTTL-Systems	RTSB-A	N/A	N/A	N/A
6	Test System	CTTL-Systems	RTSB-A V3.0.0	N/A	N/A	N/A

3.2. Test Setup



3.3. Measurement Uncertainty

Measurements and results are all in compliance with the applied test specifications listed in this report.

The measurement uncertainties of the test laboratory which carried out the test cases are compliant with requirements stated in Section 6.10 of the RF test specification (RF.TS) and Section 6.6 of the RF-PHY test specification (RF-PHY.TS).

All measurements and results are recorded and maintained at the laboratory performing the tests.

Measurements uncertainties are taken into account when concluding measurement to pass / fail criteria.

The detailed measurement uncertainty is defined in the test lab's documents and can be provided upon request.





4. RF CONFORMANCE TEST RESULTS

4.1. RF Test Cases (BR/EDR configuration)

No.	Test Case Identifier	Test Case Description	Category	Verdict
1	RF/TRM/CA/BV-01-C	Output Power	A	PASS
2	RF/TRM/CA/BV-02-C	Power Density	A	PASS
3	RF/TRM/CA/BV-03-C	Power Control	A	PASS
4	RF/TRM/CA/BV-04-C	TX Output Spectrum - Frequency Range	A	PASS
5	RF/TRM/CA/BV-05-C	TX Output Spectrum - 20 dB Bandwidth	A	PASS
6	RF/TRM/CA/BV-06-C	TX Output Spectrum - Adjacent Channel Power	A	PASS
7	RF/TRM/CA/BV-07-C	Modulation Characteristics	A	PASS
8	RF/TRM/CA/BV-08-C	Initial Carrier Frequency Tolerance	A	PASS
9	RF/TRM/CA/BV-09-C	Carrier Frequency Drift	A	PASS
10	RF/TRM/CA/BV-10-C	EDR Relative Transmit Power	A	PASS
11	RF/TRM/CA/BV-11-C	EDR Carrier Frequency Stability and Modulation Accuracy	A	PASS
12	RF/TRM/CA/BV-12-C	EDR Differential Phase Encoding	A	PASS
13	RF/TRM/CA/BV-13-C	EDR In-band Spurious Emissions	A	PASS
14	RF/TRM/CA/BV-14-C	Enhanced Power Control	A	PASS
15	RF/TRM/CA/BV-15-C	EDR Guard Time	A	PASS
16	RF/TRM/CA/BV-16-C	EDR Synchronization Sequence and Trailer	A	PASS
17	RF/RCV/CA/BV-01-C	Sensitivity - single slot packets	A	PASS
18	RF/RCV/CA/BV-02-C	Sensitivity - multi-slot packets	A	PASS
19	RF/RCV/CA/BV-03-C	C/I Performance	A	PASS
20	RF/RCV/CA/BV-04-C	Blocking Performance	A	PASS
21	RF/RCV/CA/BV-05-C	Intermodulation Performance	A	PASS
22	RF/RCV/CA/BV-06-C	Maximum Input Level	A	PASS
23	RF/RCV/CA/BV-07-C	EDR Sensitivity	A	PASS
24	RF/RCV/CA/BV-08-C	EDR BER Floor Performance	A	PASS
25	RF/RCV/CA/BV-09-C	EDR C/I Performance	A	PASS
26	RF/RCV/CA/BV-10-C	EDR Maximum Input Level	A	PASS





4.2. RF-PHY Test Cases (LE configuration)

No.	Test Case Identifier	Test Case Description	Category	Verdict
1	RFPHY/TRM/BV-01-C	Output power, 1 Ms/s	A	PASS
2	RFPHY/TRM/BV-03-C	In-band emissions, uncoded data at 1 Ms/s	A	PASS
3	RFPHY/TRM/BV-05-C	Modulation Characteristics, uncoded data at 1 Ms/s	A	PASS
4	RFPHY/TRM/BV-06-C	Carrier frequency offset and drift, uncoded data at 1 Ms/s	A	PASS
5	RFPHY/TRM/BV-08-C	In-band emissions at 2 Ms/s	A	N/A
6	RFPHY/TRM/BV-09-C	Stable Modulation Characteristics, uncoded data at 1 Ms/s	A	N/A
7	RFPHY/TRM/BV-10-C	Modulation Characteristics at 2 Ms/s	A	N/A
8	RFPHY/TRM/BV-11-C	Stable Modulation Characteristics at 2 Ms/s	A	N/A
9	RFPHY/TRM/BV-12-C	Carrier frequency offset and drift at 2 Ms/s	A	N/A
10	RFPHY/TRM/BV-13-C	Modulation Characteristics, LE Coded (S=8)	A	N/A
11	RFPHY/TRM/BV-14-C	Carrier frequency offset and drift, LE Coded (S=8)	A	N/A
12	RFPHY/TRM/BV-15-C	Output power, With Constant Tone Extension, 1 Ms/s	A	N/A
13	RFPHY/TRM/BV-16-C	Carrier frequency offset and drift, uncoded data at 1 Ms/s, Constant Tone Extension	A	N/A
14	RFPHY/TRM/BV-17-C	Carrier frequency offset and drift at 2 Ms/s, Constant Tone Extension	A	N/A
15	RFPHY/TRM/BV-18-C	Output power, Class 1, 1 Ms/s	A	N/A
16	RFPHY/TRM/BV-19-C	Output power, 2 Ms/s	A	N/A
17	RFPHY/TRM/BV-20-C	Output power, Class 1, 2 Ms/s	A	N/A
18	RFPHY/TRM/BV-21-C	Output power, With Constant Tone Extension, Class1, 1 Ms/s	A	N/A
19	RFPHY/TRM/BV-22-C	Output power, With Constant Tone Extension, 2 Ms/s	A	N/A
20	RFPHY/TRM/BV-23-C	Output power, With Constant Tone Extension, Class1, 2 Ms/s	A	N/A
21	RFPHY/TRM/CS/BV-01-C	Stable Phase, 1 Ms/s, CS Tone	A	N/A
22	RFPHY/TRM/CS/BV-02-C	Stable Phase, 2 Ms/s, CS Tone	A	N/A
23	RFPHY/TRM/CS/BV-03-C	Modulation Characteristics, 2 Ms/s, BT = 2.0, Mode-1	A	N/A
24	RFPHY/TRM/CS/BV-04-C	Modulation Characteristics, 2 Ms/s, BT = 2.0, Mode-3	A	N/A
25	RFPHY/TRM/CS/BV-05-C	TX SNR Output Control, 1 Ms/s, Mode-1	B	N/A
26	RFPHY/TRM/CS/BV-06-C	TX SNR Output Control, 1 Ms/s, Mode-3	B	N/A
27	RFPHY/TRM/CS/BV-07-C	TX SNR Output Control, 2 Ms/s, Mode-1	B	N/A
28	RFPHY/TRM/CS/BV-08-C	TX SNR Output Control, 2 Ms/s, Mode-3	B	N/A
29	RFPHY/TRM/CS/BV-09-C	TX SNR Output Control, 2 Ms/s, Mode-1, BT = 2.0	B	N/A
30	RFPHY/TRM/CS/BV-10-C	TX SNR Output Control, 2 Ms/s, Mode-3, BT = 2.0	B	N/A
31	RFPHY/TRM/PS/BV-01-C	Tx Power Stability, AoD Transmitter at 1 Ms/s with 2 μ s Switching Slot	A	N/A
32	RFPHY/TRM/PS/BV-02-C	Tx Power Stability, AoD Transmitter at 1 Ms/s with 1 μ s Switching Slot	A	N/A



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33	RFPHY/TRM/PS/BV-03-C	Tx Power Stability, AoD Transmitter at 2 Ms/s with 2 μ s Switching Slot	A	N/A
34	RFPHY/TRM/PS/BV-04-C	Tx Power Stability, AoD Transmitter at 2 Ms/s with 1 μ s Switching Slot	A	N/A
35	RFPHY/TRM-RCV/CS/BV-01-C	Step Mode-0, Frequency Verification, 1 Ms/s	B	N/A
36	RFPHY/TRM-RCV/CS/BV-02-C	Step Mode-0, Frequency Verification, 2 Ms/s	B	N/A
37	RFPHY/TRM-RCV/CS/BV-03-C	Step Mode-0, Frequency Verification, 2 Ms/s, BT = 2.0	B	N/A
38	RFPHY/TRM-RCV/CS/BV-04-C	Step Main Mode, Frequency Verification, 1 Ms/s, Mode-1	B	N/A
39	RFPHY/TRM-RCV/CS/BV-05-C	Step Main Mode, Frequency Verification, 1 Ms/s, Mode-2	B	N/A
40	RFPHY/TRM-RCV/CS/BV-06-C	Step Main Mode, Frequency Verification, 1 Ms/s, Mode-3	B	N/A
41	RFPHY/TRM-RCV/CS/BV-07-C	Step Main Mode, Frequency Verification, 2 Ms/s, Mode-1	B	N/A
42	RFPHY/TRM-RCV/CS/BV-08-C	Step Main Mode, Frequency Verification, 2 Ms/s, Mode-3	B	N/A
43	RFPHY/TRM-RCV/CS/BV-09-C	Step Main Mode, Frequency Verification, 2 Ms/s, BT = 2.0, Mode-1	B	N/A
44	RFPHY/TRM-RCV/CS/BV-10-C	Step Main Mode, Frequency Verification, 2 Ms/s, BT = 2.0, Mode-3	B	N/A
45	RFPHY/TRM-RCV/CS/BV-11-C	Phase Measurement Accuracy, 1 Ms/s, Mode-2, Reflector, N_AP:1	B	N/A
46	RFPHY/TRM-RCV/CS/BV-12-C	Phase Measurement Accuracy, 1 Ms/s, Mode-3, Reflector, N_AP:1	B	N/A
47	RFPHY/TRM-RCV/CS/BV-13-C	Phase Measurement Accuracy, 2 Ms/s, Mode-3, Reflector, N_AP:1	B	N/A
48	RFPHY/TRM-RCV/CS/BV-14-C	Phase Measurement Accuracy, 2 Ms/s, BT = 2.0, Mode-3, Reflector, N_AP:1	B	N/A
49	RFPHY/TRM-RCV/CS/BV-15-C	Phase Measurement Accuracy, 1 Ms/s, Mode-2, Initiator, N_AP:1	B	N/A
50	RFPHY/TRM-RCV/CS/BV-16-C	Phase Measurement Accuracy, 1 Ms/s, Mode-3, Initiator, N_AP:1	B	N/A
51	RFPHY/TRM-RCV/CS/BV-17-C	Phase Measurement Accuracy, 2 Ms/s, Mode-3, Initiator, N_AP:1	B	N/A
52	RFPHY/TRM-RCV/CS/BV-18-C	Phase Measurement Accuracy, 2 Ms/s, BT = 2.0, Mode-3, Initiator, N_AP:1	B	N/A
53	RFPHY/TRM-RCV/CS/BV-19-C	Phase Measurement Accuracy, 1 Ms/s, Mode-2, Reflector, 1:N_AP		N/A
54	RFPHY/TRM-RCV/CS/BV-20-C	Phase Measurement Accuracy, 1 Ms/s, Mode-2, Reflector, 2:2		N/A
55	RFPHY/TRM-RCV/CS/BV-21-C	Phase Measurement Accuracy, 1 Ms/s, Mode-3, Reflector, 1:N_AP		N/A
56	RFPHY/TRM-RCV/CS/BV-22-C	Phase Measurement Accuracy, 1 Ms/s, Mode-3, Reflector, 2:2		N/A
57	RFPHY/TRM-RCV/CS/BV-23-C	Phase Measurement Accuracy, 2 Ms/s, Mode-3, Reflector, 1:N_AP		N/A
58	RFPHY/TRM-RCV/CS/BV-24-C	Phase Measurement Accuracy, 2 Ms/s, Mode-3, Reflector, 2:2		N/A
59	RFPHY/TRM-RCV/CS/BV-25-C	Phase Measurement Accuracy, 2 Ms/s, BT = 2.0, Mode-3, Reflector, 1:N_AP		N/A
60	RFPHY/TRM-RCV/CS/BV-26-C	Phase Measurement Accuracy, 2 Ms/s, BT = 2.0, Mode-3, Reflector, 2:2		N/A



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61	RFPHY/TRM-RCV/CS/BV-27-C	Phase Measurement Accuracy, 1 Ms/s, Mode-2, Initiator, 1:N_AP		N/A
62	RFPHY/TRM-RCV/CS/BV-28-C	Phase Measurement Accuracy, 1 Ms/s, Mode-2, Initiator, 2:2		N/A
63	RFPHY/TRM-RCV/CS/BV-29-C	Phase Measurement Accuracy, 1 Ms/s, Mode-3, Initiator, 1:N_AP		N/A
64	RFPHY/TRM-RCV/CS/BV-30-C	Phase Measurement Accuracy, 1 Ms/s, Mode-3, Initiator, 2:2		N/A
65	RFPHY/TRM-RCV/CS/BV-31-C	Phase Measurement Accuracy, 2 Ms/s, Mode-3, Initiator, 1:N_AP		N/A
66	RFPHY/TRM-RCV/CS/BV-32-C	Phase Measurement Accuracy, 2 Ms/s, Mode-3, Initiator, 2:2		N/A
67	RFPHY/TRM-RCV/CS/BV-33-C	Phase Measurement Accuracy, 2 Ms/s, BT = 2.0, Mode-3, Initiator, 1:N_AP		N/A
68	RFPHY/TRM-RCV/CS/BV-34-C	Phase Measurement Accuracy, 2 Ms/s, BT = 2.0, Mode-3, Initiator, 2:2		N/A
69	RFPHY/TRM/ASI/BV-05-C	Antenna switching integrity, AoD Transmitter at 1 Ms/s with 2 μ s Switching Slot	A	N/A
70	RFPHY/TRM/ASI/BV-06-C	Antenna switching integrity, AoD Transmitter at 1 Ms/s with 1 μ s Switching Slot	A	N/A
71	RFPHY/TRM/ASI/BV-07-C	Antenna switching integrity, AoD Transmitter at 2 Ms/s with 2 μ s Switching Slot	A	N/A
72	RFPHY/TRM/ASI/BV-08-C	Antenna switching integrity, AoD Transmitter at 2 Ms/s with 1 μ s Switching Slot	A	N/A
73	RFPHY/RCV/BV-01-C	Receiver sensitivity, uncoded data at 1 Ms/s	A	PASS
74	RFPHY/RCV/BV-03-C	C/I and Receiver Selectivity Performance, uncoded data at 1 Ms/s	A	PASS
75	RFPHY/RCV/BV-04-C	Blocking Performance, uncoded data at 1 Ms/s	A	PASS
76	RFPHY/RCV/BV-05-C	Intermodulation Performance, uncoded data at 1 Ms/s	A	PASS
77	RFPHY/RCV/BV-06-C	Maximum input signal level, uncoded data at 1 Ms/s	A	PASS
78	RFPHY/RCV/BV-07-C	PER Report Integrity, uncoded data at 1 Ms/s	A	PASS
79	RFPHY/RCV/BV-08-C	Receiver sensitivity at 2 Ms/s	A	N/A
80	RFPHY/RCV/BV-09-C	C/I and Receiver Selectivity Performance at 2 Ms/s	A	N/A
81	RFPHY/RCV/BV-10-C	Blocking performance at 2 Ms/s	A	N/A
82	RFPHY/RCV/BV-11-C	Intermodulation performance at 2 Ms/s	A	N/A
83	RFPHY/RCV/BV-12-C	Maximum input signal level at 2 Ms/s	A	N/A
84	RFPHY/RCV/BV-13-C	PER Report Integrity at 2 Ms/s	A	N/A
85	RFPHY/RCV/BV-14-C	Receiver Sensitivity, uncoded data at 1 Ms/s, Stable Modulation Index	A	N/A
86	RFPHY/RCV/BV-15-C	C/I and Receiver Selectivity Performance, uncoded data at 1 Ms/s, Stable Modulation Index	A	N/A
87	RFPHY/RCV/BV-16-C	Blocking Performance, uncoded data at 1 Ms/s, Stable Modulation Index	A	N/A
88	RFPHY/RCV/BV-17-C	Intermodulation Performance, uncoded data at 1 Ms/s, Stable Modulation Index	A	N/A
89	RFPHY/RCV/BV-18-C	Maximum input signal level, uncoded data at 1 Ms/s, Stable Modulation Index	A	N/A



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90	RFPHY/RCV/BV-19-C	PER Report Integrity, uncoded data at 1 Ms/s, Stable Modulation Index	A	N/A
91	RFPHY/RCV/BV-20-C	Receiver sensitivity at 2 Ms/s, Stable Modulation Index	A	N/A
92	RFPHY/RCV/BV-21-C	C/I and Receiver Selectivity Performance at 2 Ms/s, Stable Modulation Index	A	N/A
93	RFPHY/RCV/BV-22-C	Blocking performance at 2 Ms/s, Stable Modulation Index	A	N/A
94	RFPHY/RCV/BV-23-C	Intermodulation performance at 2 Ms/s, Stable Modulation Index	A	N/A
95	RFPHY/RCV/BV-24-C	Maximum input signal level at 2 Ms/s, Stable Modulation Index	A	N/A
96	RFPHY/RCV/BV-25-C	PER Report Integrity at 2 Ms/s, Stable Modulation Index	A	N/A
97	RFPHY/RCV/BV-26-C	Receiver sensitivity, LE Coded (S=2)	A	N/A
98	RFPHY/RCV/BV-27-C	Receiver sensitivity, LE Coded (S=8)	A	N/A
99	RFPHY/RCV/BV-28-C	C/I and Receiver Selectivity Performance, LE Coded (S=2)	A	N/A
100	RFPHY/RCV/BV-29-C	C/I and Receiver Selectivity Performance, LE Coded (S=8)	A	N/A
101	RFPHY/RCV/BV-30-C	PER Report Integrity, LE Coded (S=2)	A	N/A
102	RFPHY/RCV/BV-31-C	PER Report Integrity, LE Coded (S=8)	A	N/A
103	RFPHY/RCV/BV-32-C	Receiver sensitivity, LE Coded (S=2), Stable Modulation Index	A	N/A
104	RFPHY/RCV/BV-33-C	Receiver sensitivity, LE Coded (S=8), Stable Modulation Index	A	N/A
105	RFPHY/RCV/BV-34-C	C/I and Receiver Selectivity Performance, LE Coded (S=2), Stable Modulation Index	A	N/A
106	RFPHY/RCV/BV-35-C	C/I and Receiver Selectivity Performance, LE Coded (S=8), Stable Modulation Index	A	N/A
107	RFPHY/RCV/BV-36-C	PER Report Integrity, LE Coded (S=2), Stable Modulation Index	A	N/A
108	RFPHY/RCV/BV-37-C	PER Report Integrity, LE Coded (S=8), Stable Modulation Index	A	N/A
109	RFPHY/RCV/IQC/BV-01-C	IQ Samples Coherency, AoD Receiver at 1 Ms/s with 2 μ s Slot	A	N/A
110	RFPHY/RCV/IQC/BV-02-C	IQ Samples Coherency, AoD Receiver at 1 Ms/s with 1 μ s Slot	A	N/A
111	RFPHY/RCV/IQC/BV-03-C	IQ Samples Coherency, AoD Receiver at 2 Ms/s with 2 μ s Slot	A	N/A
112	RFPHY/RCV/IQC/BV-04-C	IQ Samples Coherency, AoD Receiver at 2 Ms/s with 1 μ s Slot	A	N/A
113	RFPHY/RCV/IQC/BV-05-C	IQ Samples Coherency, AoA Receiver at 1 Ms/s with 2 μ s Slot	A	N/A
114	RFPHY/RCV/IQC/BV-06-C	IQ Samples Coherency, AoA Receiver at 2 Ms/s with 2 μ s Slot	A	N/A
115	RFPHY/RCV/IQDR/BV-07-C	IQ Samples Dynamic Range, AoD Receiver at 1 Ms/s with 2 μ s Slot	A	N/A
116	RFPHY/RCV/IQDR/BV-08-C	IQ Samples Dynamic Range, AoD Receiver at 1 Ms/s with 1 μ s Slot	A	N/A
117	RFPHY/RCV/IQDR/BV-09-C	IQ Samples Dynamic Range, AoD Receiver at 2 Ms/s with 2 μ s Slot	A	N/A
118	RFPHY/RCV/IQDR/BV-10-C	IQ Samples Dynamic Range, AoD Receiver at 2 Ms/s with 1 μ s Slot	A	N/A
119	RFPHY/RCV/IQDR/BV-11-C	IQ Samples Dynamic Range, AoA Receiver at 1 Ms/s with 2 μ s Slot	A	N/A
120	RFPHY/RCV/IQDR/BV-12-C	IQ Samples Dynamic Range, AoA Receiver at 2 Ms/s with 2 μ s Slot	A	N/A



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5. PICS AND PIXIT

5.1. PICS

5.1.1.RF PICS

Item	Capability	Status	Support [Yes] or [No]	Reference
1	Power Class 1	C.5	Yes	Bluetooth core specification, Radio (RF) Volume 2, Part A
2	Power Class 2	C.5	No	
3	Power Class 3	C.5	No	
4	Power Control	C.1	Yes	
5	1-slot packets supported	M	Yes	Bluetooth core specification, Baseband (BB) Volume 2, Part B
6	3-slot packets supported	O	Yes	
7	5-slot packets supported	O	Yes	
8	79 Channels	M	Yes	Bluetooth core specification,, Radio (RF) Volume 2, Part A
9	Support for GFSK modulation	M	Yes	
10	Support for $\pi/4$ - DQPSK modulation	C.2	Yes	
11	Support for 8DPSK modulation	C.3	Yes	
12	Enhanced Power Control	C.4	Yes	

Explanations for the Status:

C.1: Mandatory IF 1/1 “Power Class 1” is supported; Optional IF 1/2 “Power Class 2” OR 1/3 “Power Class 3” is supported, otherwise Excluded.

C.2: Mandatory IF (SUM ICS 22/1 “EDR for asynchronous transports (single slot)” OR SUM ICS 22/2 “EDR for asynchronous transports (multi-slot)” OR SUM ICS 22/3 “EDR for synchronous transports” OR SUM ICS 22/4 “EDR for synchronous transports”) is supported, otherwise Excluded.

C.3: Mandatory IF (SUM ICS 22/1 “EDR for asynchronous transports (single slot)” OR SUM ICS 22/2 “EDR for asynchronous transports (multi-slot)” OR SUM ICS 22/3 “EDR for synchronous transports”) is supported; Optional if (SUM ICS 22/4 “EDR for synchronous transports”) is supported, otherwise Excluded.

C.4: Optional IF SUM ICS 21/8 “Core Specification 3.0” or later AND 1/4 “Power Control” is supported, otherwise Excluded.

C.5: At least one of 1/1 “Power Class 1” OR 1/2 “Power Class 2” OR 1/3 “Power Class 3” shall be supported.

M: Mandatory support.

O: Optional support.





5.1.2. RF-PHY PICS

Item	Capability	Status	Support [Yes] or [No]	Reference
1	LE Transmitter (Non-connectable, Broadcaster)	C.1	Yes	Bluetooth core specification, Physical Layer (PHY) Volume 6, Part A, Version 4.0 or later
2	LE Receiver (Non-connectable, Observer)	C.1	Yes	
3	LE Transceiver (Connectable, Peripheral/Central)	C.1	Yes	
4	LE 2M PHY	C.2	No	Bluetooth core specification, Physical Layer (PHY) Volume 6, Part A, Version 5.0 or later
5	Stable Modulation Index - Transmitter	C.3	No	
6	Stable Modulation Index - Receiver	C.4	No	
7	LE Coded PHY	C.2	No	Bluetooth core specification, Physical Layer (PHY) Volume 6, Part A, Version 5.1 or later
8	Transmitting Constant Tone Extensions	C.3	No	
9	2 μ s Antenna Switching During Constant Tone Extension Transmission (AoD)	C.5	No	
10	1 μ s Antenna Switching During Constant Tone Extension Transmission (AoD)	C.6	No	
11	2 μ s Antenna Sampling During Constant Tone Extension Reception (AoD)	C.4	No	
12	2 μ s Antenna Switching and Sampling During Constant Tone Extension Reception (AoA)	C.7	No	
13	1 μ s Antenna Sampling During Constant Tone Extension Reception (AoD)	C.7	No	
14	1 μ s Antenna Switching and Sampling During Constant Tone Extension Reception (AoA)	C.8	No	
15	Power Class 1	C.9	No	

Explanations for the Status:

C.1: Mandatory to support at least one of these capabilities. Note that selecting both RF PHY 1/1 "LE Transmitter" and RF PHY 1/2 "LE Receiver" is equivalent to selecting RF PHY 1/3 "LE Transceiver" and vice versa.

C.2: Excluded IF SUM ICS 21/14 "Core v4.2" is supported, otherwise Optional.

C.3: Excluded IF SUM ICS 21/14 "Core v4.2" is supported, otherwise Optional IF RF PHY 1/1 "LE Transmitter" OR RF PHY 1/3 "LE Transceiver" is supported, otherwise Excluded.

C.4: Excluded IF SUM ICS 21/14 "Core v4.2" is supported, otherwise Optional IF RF PHY 1/2 "LE Receiver" OR RF PHY 1/3 "LE Transceiver" is supported, otherwise Excluded.

C.5: Optional IF RF PHY 1/8 "Transmitting Constant Tone Extensions" is supported, otherwise Excluded.

C.6: Optional IF RF-PHY 1/9 "2 μ s Antenna Switching During Constant Tone Extension Transmission (AoD)" is supported, otherwise Excluded.

C.7: Optional IF RF PHY 1/11 "2 μ s Antenna Sampling During Constant Tone Extension Reception (AoD)" is supported, otherwise Excluded.

C.8: Mandatory IF RF PHY 1/12 "2 μ s Antenna Switching and Sampling During Constant Tone Extension Reception (AoA)" and RF/PHY 1/13 "1 μ s Antenna Sampling During Constant Tone Extension Reception (AoD)" are supported, otherwise Excluded.

C.9: Excluded IF SUM ICS 21/14 "Core v4.2" AND NOT SUM ICS 21/15 "CSA 5", otherwise Optional IF RFPHY 1/1 "LE Transmitter" OR RFPHY 1/3 "LE Transceiver", otherwise Excluded.

Item	Capability	Status	Support [Yes] or [No]	Reference
1	HCI Test Interface	C.1	Yes	Bluetooth core specification, Direct Test Mode, Volume 6, Part F, Version 4.0 or later
2	UART Test Interface	C.1	No	

Explanation for the Status: C.1: Mandatory to support at least one of these capabilities.



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5.2. PIXIT

5.2.1. RF PIXIT

PIXIT Reference	Identifier	Value	Unit
RF:P1	Timer for TX power control	1000	ms
RF:P2	Inband Image frequency	3	MHz
RF:P3	Value n for Intermodulation test	5	Integer
RF:P6	Type of power source	DC	N/A
RF:P7	Nominal power source voltage	3.8	V
RF:P8	Nominal temperature range	--	°C
RF:P10	Antenna gain	1.24	dBi

5.2.2. RF-PHY PIXIT

PIXIT Reference	Identifier	Sub-Identifier (Optional)	Value	Units
RF-PHY:P1:1	Inband Image Frequency (1Ms/s uncoded or coded)	Low frequency	3	MHz
RF-PHY:P1:2		Middle frequency	3	MHz
RF-PHY:P1:3		High frequency	3	MHz
RF-PHY:P2:1	Value n for Intermodulation test	Low frequency	5	Integer
RF-PHY:P2:2		Middle frequency	5	Integer
RF-PHY:P2:3		High frequency	5	Integer
RF-PHY:P4	Power source voltage	Nominal (NOC)	3.8	V
RF-PHY:P5	Normal operating temperature	Nominal (NOC)	22.5	°C
RF-PHY:P6	Air humidity level for NOC tests	Normal	52.8	%
RF-PHY:P7	Test interface implementation	HCI or 2-wire UART	HCI	N/A
RF-PHY:P9:1	Maximum TX packet length (MAX_TX_LENGTH)	(37 ~ 255)	37	Bytes
RF-PHY:P9:2	Maximum RX packet length (MAX_RX_LENGTH)	(37 ~ 255)	37	Bytes
RF-PHY:P9:3	Maximum TX packet length (MAX_TX_LENGTH) 2M	(37 ~ 255)	N/A	Bytes
RF-PHY:P9:4	Maximum TX packet length (MAX_TX_LENGTH) S=2	(37 ~ 255)	N/A	Bytes
RF-PHY:P9:5	Maximum TX packet length (MAX_TX_LENGTH) S=8	(37 ~ 255)	N/A	Bytes
RF-PHY:P9:6	Maximum RX packet length (MAX_RX_LENGTH) 2M	(37 ~ 255)	N/A	Bytes
RF-PHY:P9:7	Maximum RX packet length (MAX_RX_LENGTH) S=2	(37 ~ 255)	N/A	Bytes
RF-PHY:P9:8	Maximum RX packet length (MAX_RX_LENGTH) S=8	(37 ~ 255)	N/A	Bytes





RF-PHY:P10:1	Maximum TX mode output power	-20 to 20 dBm	<10	dBm
RF-PHY:11:1	Inband Image Frequency (2Ms/s)	Low frequency	N/A	MHz
RF-PHY:11:2		Middle frequency	N/A	MHz
RF-PHY:11:3		High frequency	N/A	MHz
RF-PHY:12:1	Value n for Intermodulation test (2Ms/s)	Low frequency	N/A	Integer
RF-PHY:12:2		Middle frequency	N/A	Integer
RF-PHY:12:3		High frequency	N/A	Integer
RF-PHY:13:1	Inband Image Frequency (Stable Modulation Receiver, 1Ms/s uncoded or coded)	Low frequency	N/A	MHz
RF-PHY:13:2		Middle frequency	N/A	MHz
RF-PHY:13:3		High frequency	N/A	MHz
RF-PHY:14:1	Value n for Intermodulation test (Stable Modulation Receiver)	Low frequency	N/A	Integer
RF-PHY:14:2		Middle frequency	N/A	Integer
RF-PHY:14:3		High frequency	N/A	Integer
RF-PHY:15:1	Inband Image Frequency (Stable Modulation Receiver, 2Ms/s)	Low frequency	N/A	MHz
RF-PHY:15:2		Middle frequency	N/A	MHz
RF-PHY:15:3		High frequency	N/A	MHz
RF-PHY:16:1	Value n for Intermodulation test (Stable Modulation Receiver, 2Ms/s)	Low frequency	N/A	Integer
RF-PHY:16:2		Middle frequency	N/A	Integer
RF-PHY:16:3		High frequency	N/A	Integer
RF-PHY:17	IQ Report Rate (N)	(0x0006 ~ 0xFFFF), Interval = N * 1.25ms	N/A	N/A
RF-PHY:18	The length of the Constant Tone Extension(1Ms/s)	(16 ~ 160)	N/A	bits
RF-PHY:19	The length of the Constant Tone Extension(2Ms/s)	(32 ~ 320)	N/A	bits
RF-PHY:20	The number of antennae	2 to 4	N/A	N/A
RF-PHY:21	Antenna gain		1.24	dBi
RF-PHY:22	An array specifying the antenna ID numbers for the IUT, corresponding to the A0, A1, A2, A3 antenna designations in the test setup.		N/A	N/A



6. PHOTOGRAPHS OF TEST SETUP_RF

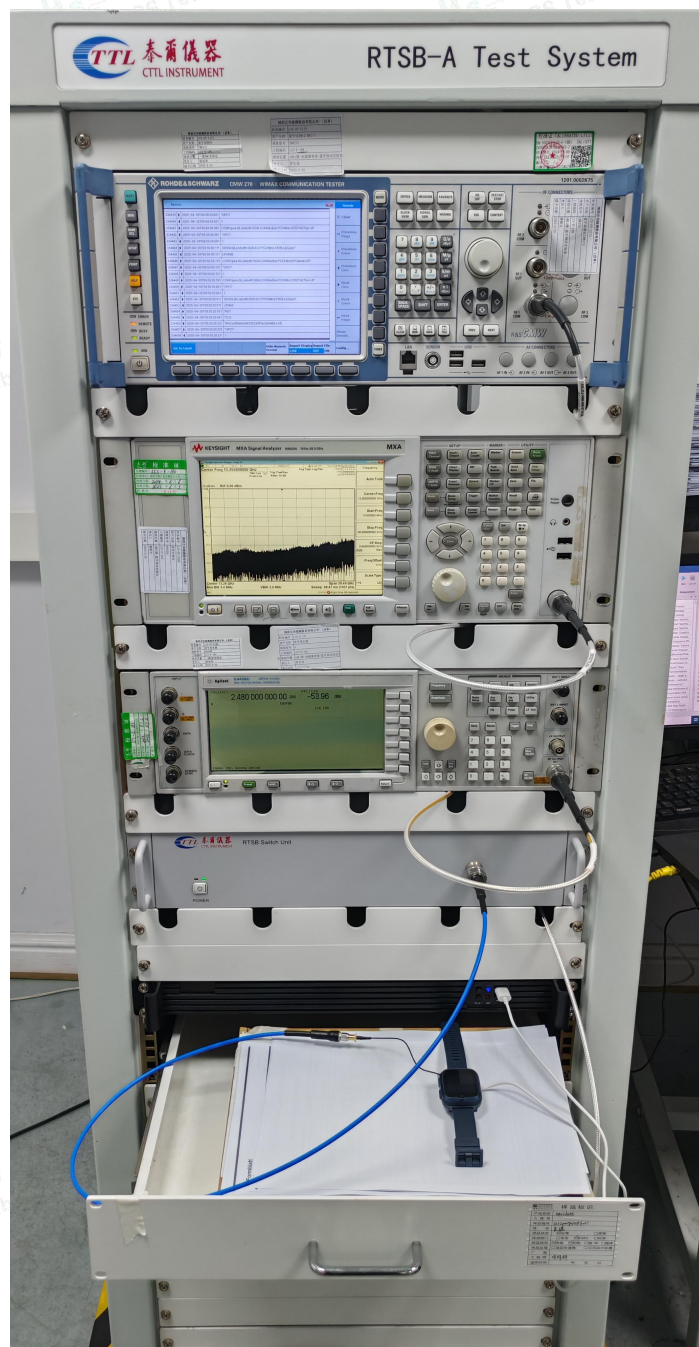


Fig.1





7. PHOTOGRAPHS OF THE EUT

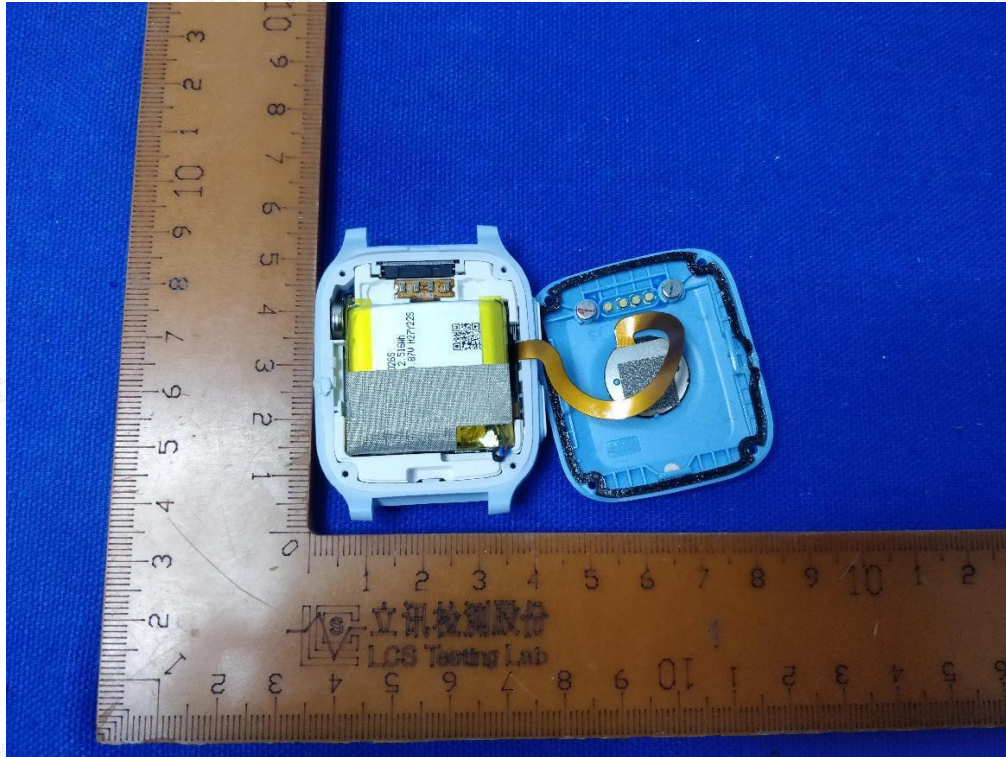


Fig.1

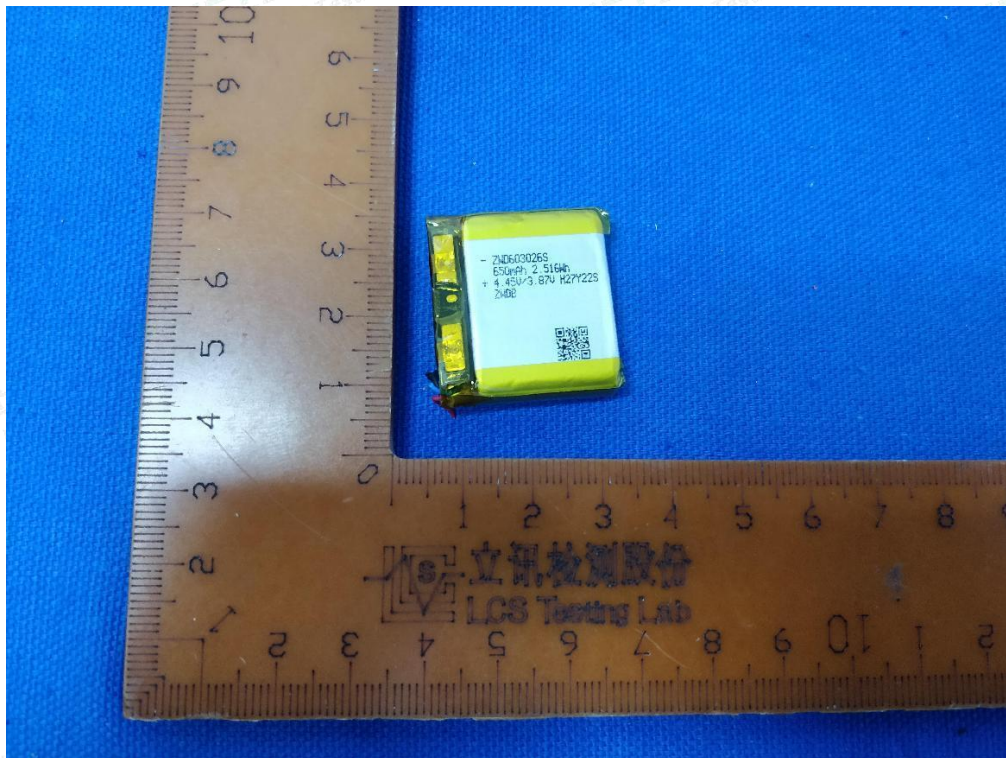


Fig.2



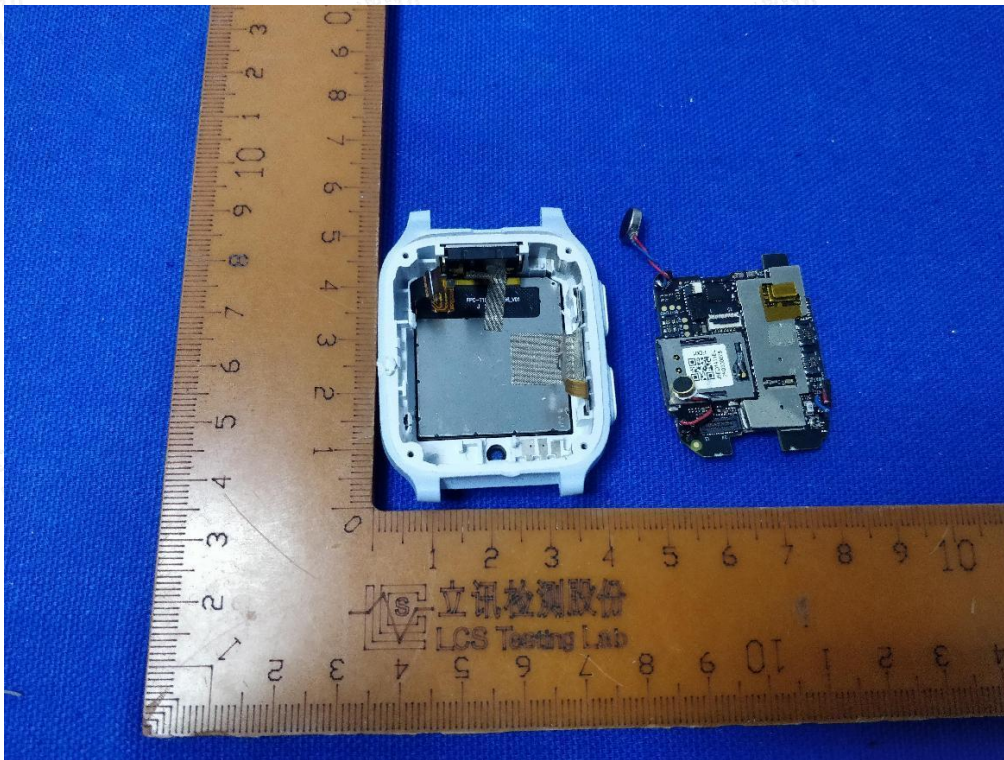


Fig.3

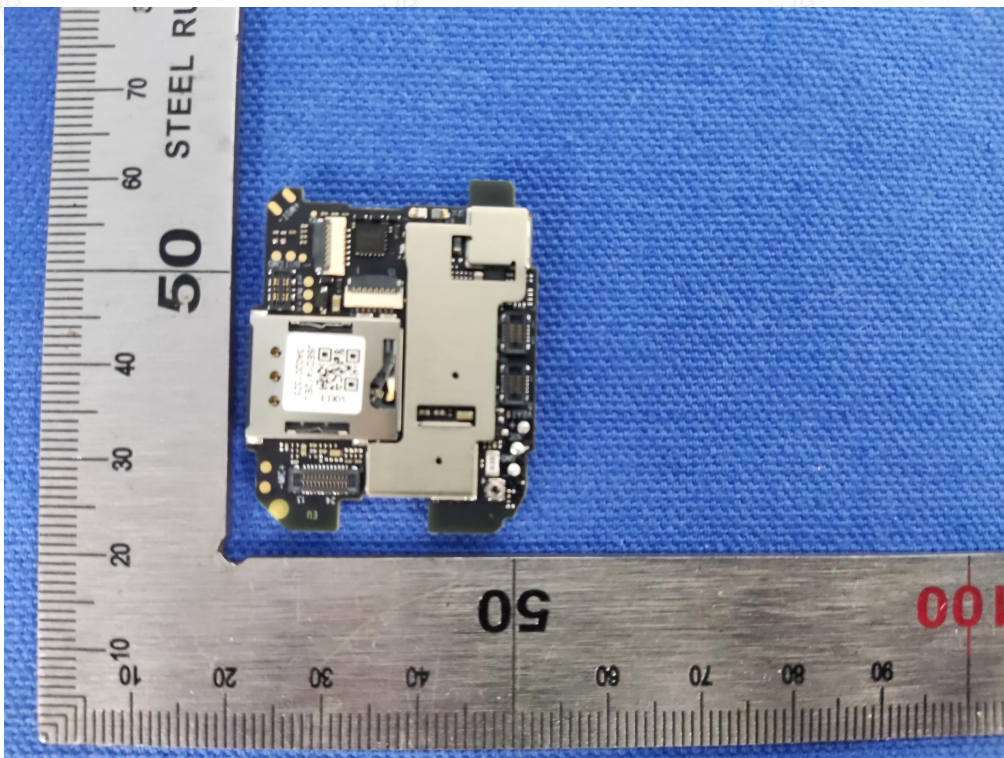


Fig.4



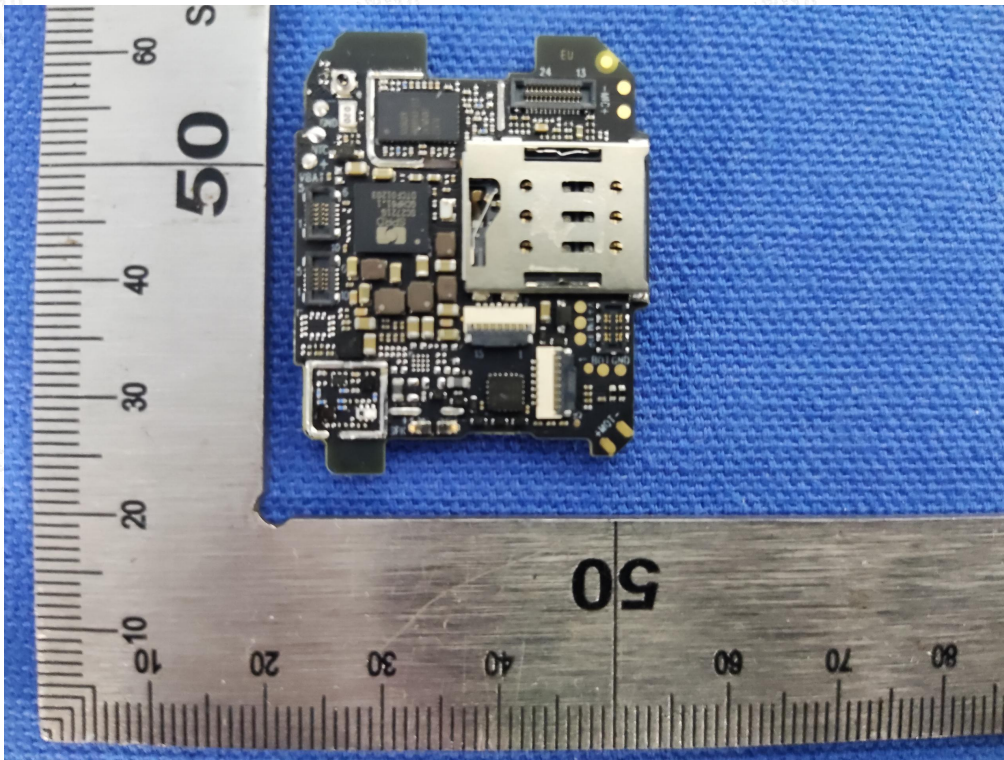


Fig.5

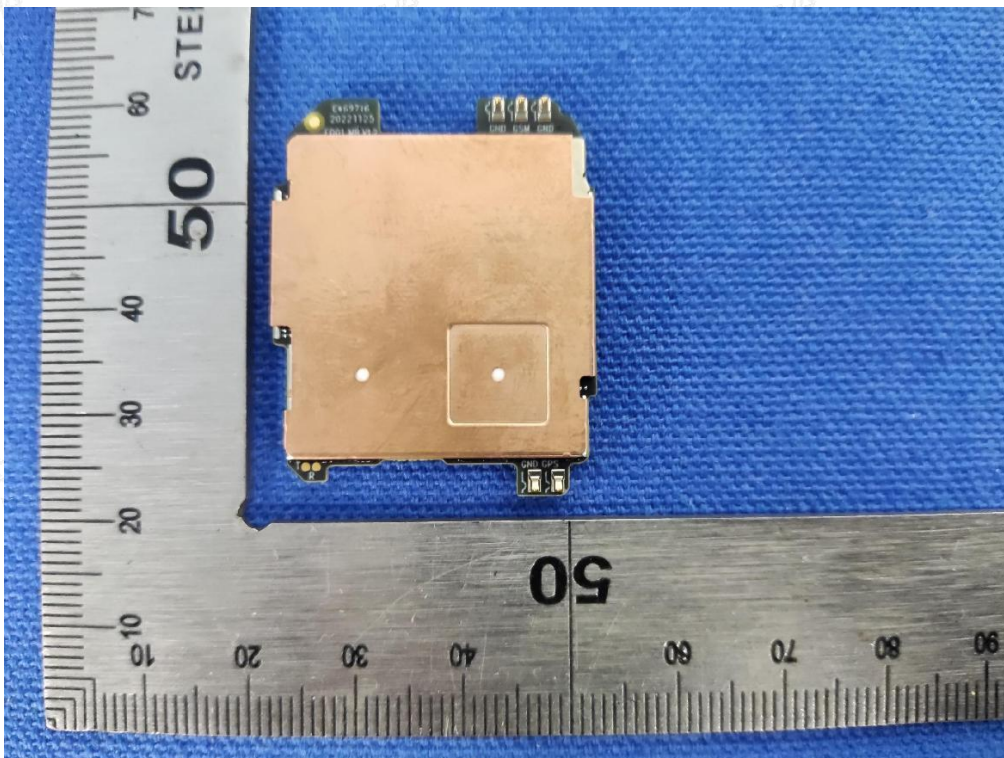


Fig.6



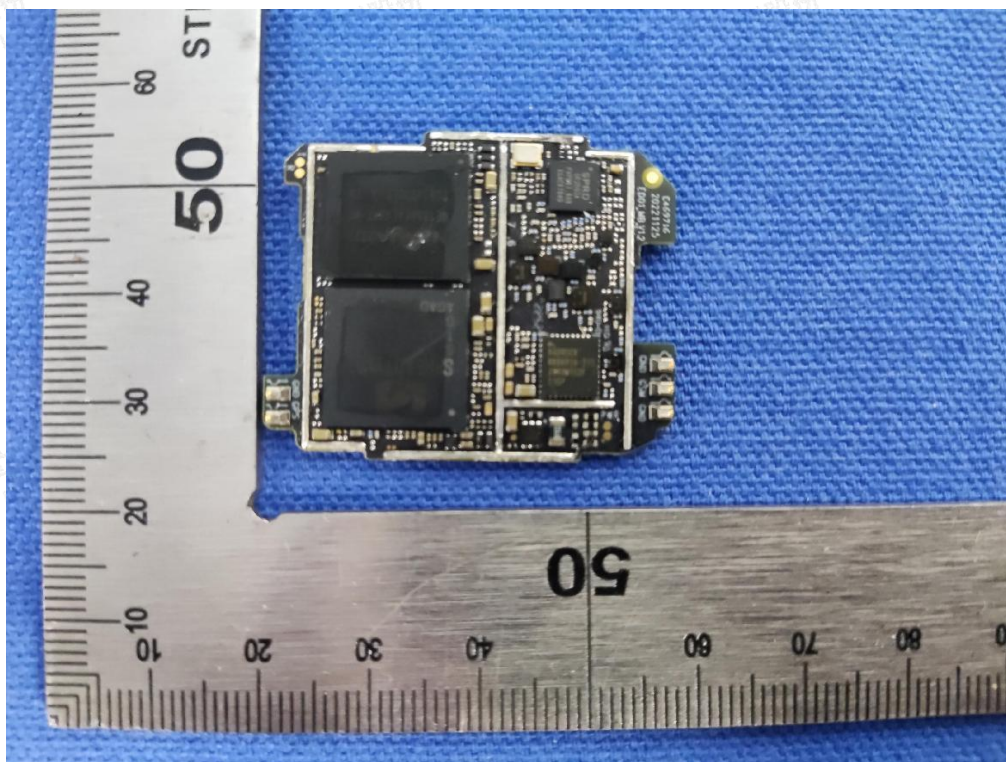


Fig.7

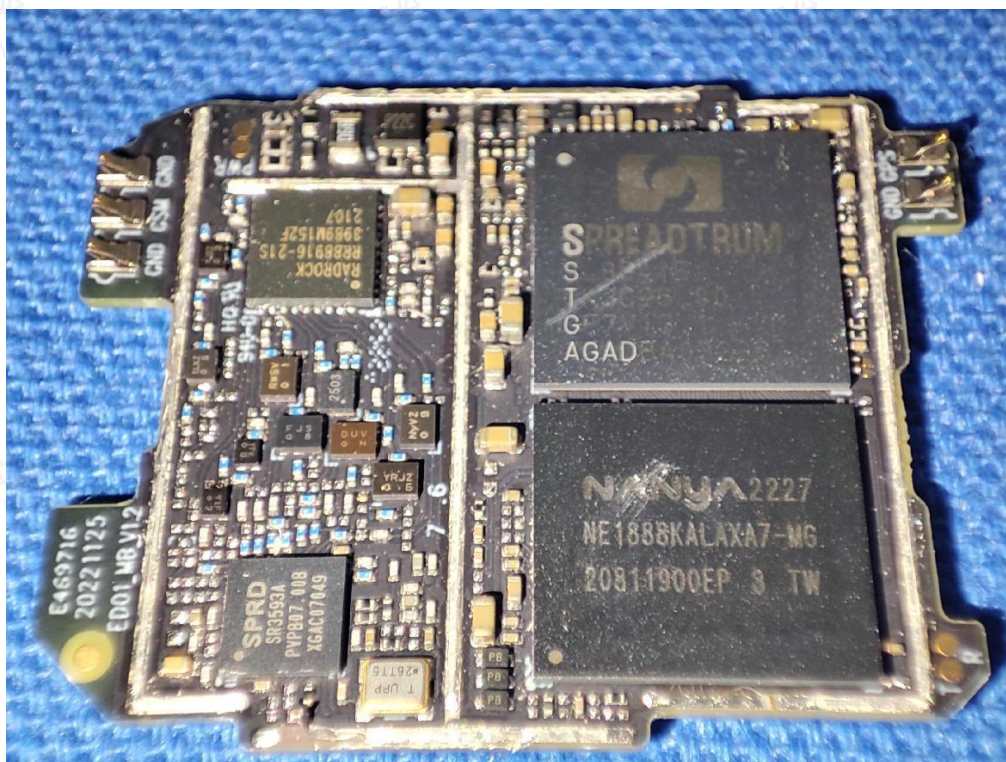


Fig.8

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