




FCC EMC Test Report

Applicant: Sky Phone LLC
Address of Applicant: 1348 Washington Av. Suite 350, Miami Beach, FL 33139
Equipment Under Test (EUT)
Product Name: Smart phone
Model No.: Sky PrestigeX1
Trade mark: SKY DEVICES
FCC ID: 2ABOSSKYPRESTGX1
Applicable standards: FCC CFR Title 47 Part 15B
Date of sample receipt: 12 Jan., 2022
Date of Test: 13 Jan., to 02 Mar., 2022
Date of report issued: 03 Mar., 2022
Test Result: PASS *

Tested by:	 _____	Date:	03 Mar., 2022 _____
Reviewed by:	 _____	Date:	03 Mar., 2022 _____
Approved by:	 _____	Date:	03 Mar., 2022 _____

Manager

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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2 Version

Version No.	Date	Description
00	03 Mar., 2022	Original

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4 General Information

4.1 Client Information

Applicant:	Sky Phone LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL 33139
Manufacturer:	Sky Phone LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL 33139

4.2 General Description of E.U.T.

Product Name:	Smart phone
Model No.:	Sky PrestigeX1
Power supply:	Rechargeable Li-ion Battery DC3.8V, 2500mAh
AC adapter:	Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

4.3 Test Mode and test samples plans

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Recording mode	Keep the EUT in Charging+Recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.4 Description of Support Units

Manufacturer	Description	Model	S/N	FCC ID/DoC
Lenovo	Laptop	ThinkPad T14 Gen 1	SL10Z47277	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

4.5 Description of Cable Used

Cable Type	Description	Length	From	To
Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter

4.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.11 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.62 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB
Radiated Emission (30MHz ~ 1GHz) (10m SAC)	±4.32 dB

Note: All the measurement uncertainty value were shown with a coverage $k=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

4.7 Additions to, Deviations, or Exclusions from the Method

No

4.8 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● CNAS - Registration No.: CNAS L15527 JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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4.9 Laboratory Location

<p>JianYan Testing Group Shenzhen Co., Ltd. Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: http://jyt.lets.com</p>

4.10 Test Instruments list

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	03-03-2021	03-02-2022
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	02-17-2022	02-16-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	06-20-2021	06-19-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	03-03-2021	03-02-2022
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXG001-7	02-17-2022	02-16-2023
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	03-07-2021	03-06-2022
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	02-17-2022	02-16-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-07-2021	03-06-2022
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	02-17-2022	02-16-2023
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	03-07-2021	03-06-2022
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	02-17-2022	02-16-2023
Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYT3M-1G-BB-5M	WXG001-6	03-07-2021	03-06-2022
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	02-17-2022	02-16-2023
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

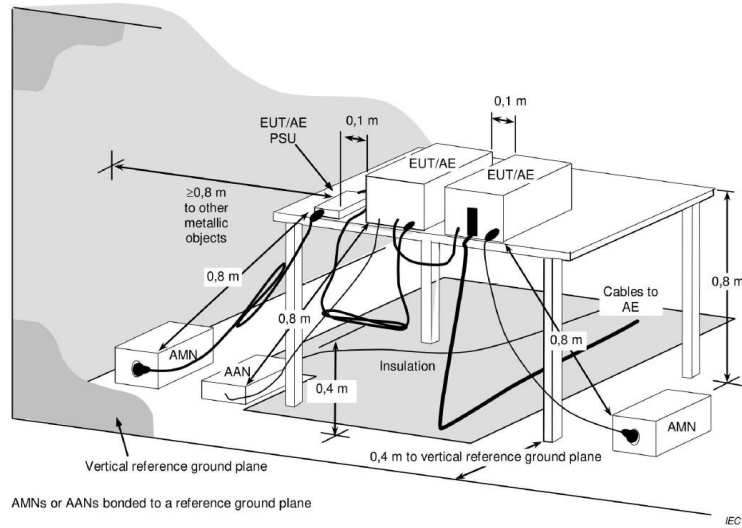
Radiated Emission(10m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
10m SAC	ETS	RFSD-100-F/A	WXJ090	04-28-2021	04-27-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-1	04-02-2021	04-01-2022
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-2	04-02-2021	04-01-2022
EMI Test Receiver	R&S	ESR 3	WXJ090-3	04-08-2021	04-07-2022
EMI Test Receiver	R&S	ESR 3	WXJ090-4	04-08-2021	04-07-2022
Low Pre-amplifier	Bost	LNA 0920N	WXG002-3	04-06-2021	04-05-2022
Low Pre-amplifier	Bost	LNA 0920N	WXG002-4	04-06-2021	04-05-2022
Cable	Bost	JYT10M-1G-NN-10M	XG002-7	04-02-2021	04-01-2022
Cable	Bost	JYT10M-1G-NN-10M	XG002-8	04-02-2021	04-01-2022
Test Software	R&S	EMC32	Version: 10.50.40		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI 3	WXJ003	03-03-2021	03-02-2022
				02-17-2022	02-16-2023
RF Switch	TOP PRECISION	RSU0301	WXG003	03-03-2021	03-02-2022
				02-17-2022	02-16-2023
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	03-18-2021	03-17-2022
				02-17-2022	02-16-2023
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	06-18-2021	06-17-2022
ISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-BN-3M	WXG003-2	03-03-2021	03-02-2022
				02-17-2022	02-16-2023
Test Software	AUDIX	E3	Version: 6.110919b		

5 Measurement setup and procedure

5.1 Test setup

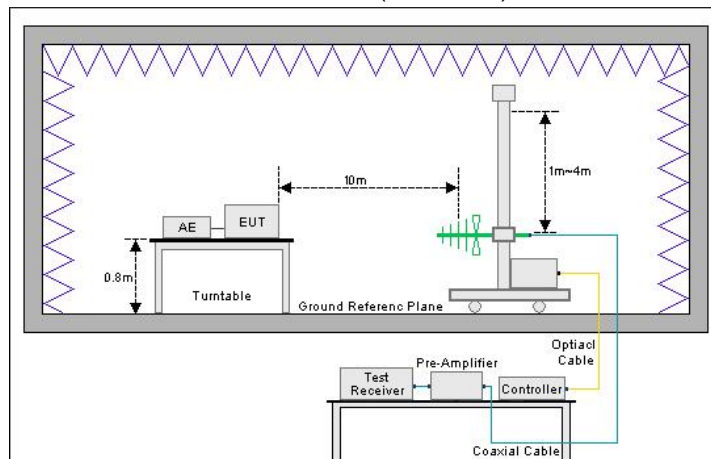
1) Conducted emission measurement:

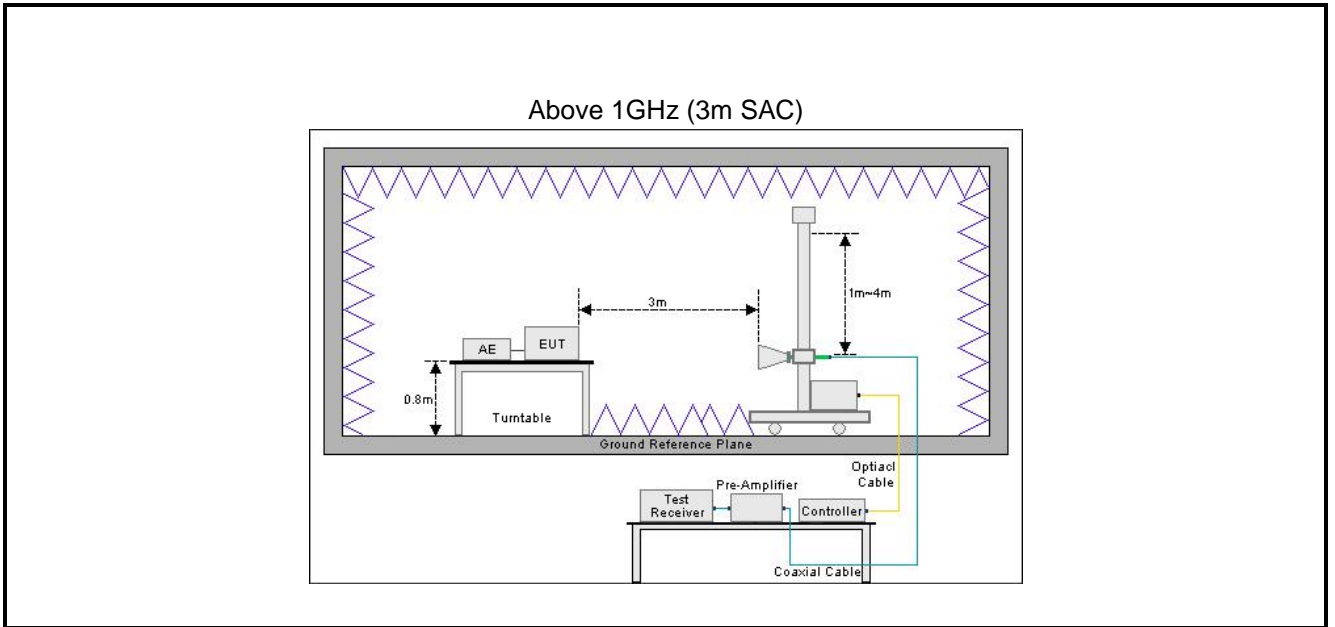


Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

Below 1GHz (10m SAC)





5.2 Test procedure

Test method	Test step
Conducted emission	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.
Radiated emission	<p>For below 1GHz:</p> <ol style="list-style-type: none"> 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 10 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m or 10 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. <p>For above 1GHz:</p> <ol style="list-style-type: none"> 1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

6 Test Results

6.1 Summary

6.1.1 Clause and data summary

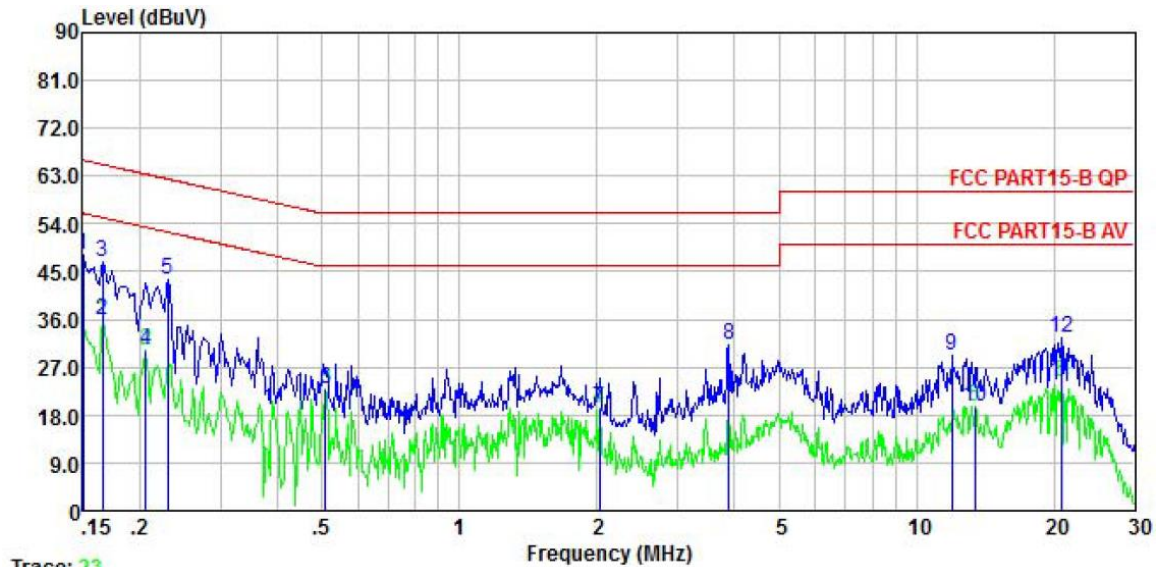
Test Items	FCC Part Section(s)	Test Data	Result
Conducted Emission	Part 15.107	See Section 6.2	Pass
Radiated Emission	Part 15.109	See Section 6.3	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable.			
Test Method:		ANSI C63.4:2014	

6.1.2 Test Limit

Items	Limit															
Conducted Emission	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50	
	Frequency range (MHz)		Limit (dBuV)													
		Quasi-peak	Average													
	0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46														
5-30	60	50														
* Decreases with the logarithm of the frequency.																
Radiated Emission	Below 1GHz (Measurement distance for 10 m): <table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>30.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>33.5</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>36.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>44.0</td> <td>Quasi-peak Value</td> </tr> </tbody> </table>	Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	30.0	Quasi-peak Value	88MHz-216MHz	33.5	Quasi-peak Value	216MHz-960MHz	36.0	Quasi-peak Value	960MHz-1GHz	44.0	Quasi-peak Value
	Frequency	Limit (dBuV/m @3m)	Remark													
	30MHz-88MHz	30.0	Quasi-peak Value													
	88MHz-216MHz	33.5	Quasi-peak Value													
	216MHz-960MHz	36.0	Quasi-peak Value													
	960MHz-1GHz	44.0	Quasi-peak Value													
	Above 1GHz (Measurement distance for 3 m): <table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <td>74.0</td> <td>Peak Value</td> </tr> </tbody> </table>		Frequency	Limit (dBuV/m @3m)	Remark	Above 1GHz	54.0	Average Value	74.0	Peak Value						
	Frequency	Limit (dBuV/m @3m)	Remark													
	Above 1GHz	54.0	Average Value													
		74.0	Peak Value													

6.2 Conducted Emission

Product name:	Smart phone	Product model:	Sky PrestigeX1
Test by:	Mike	Test mode:	PC
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		

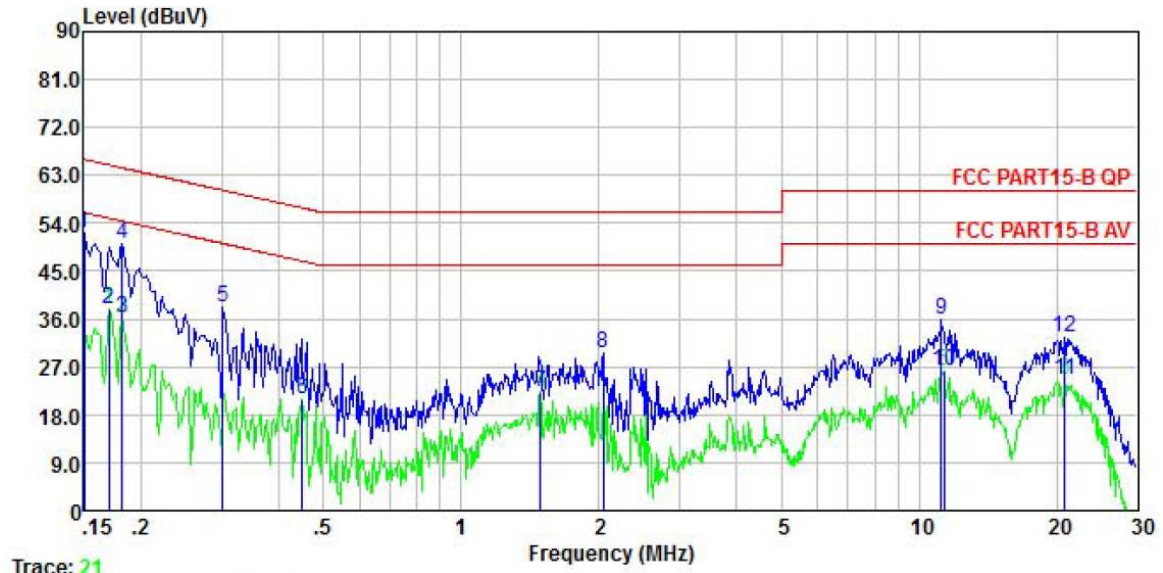


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	48.19	0.04	0.01	48.24	66.00	-17.76	QP
2	0.166	35.74	0.04	0.01	35.79	55.16	-19.37	Average
3	0.166	46.75	0.04	0.01	46.80	65.16	-18.36	QP
4	0.206	29.98	0.04	0.04	30.06	53.36	-23.30	Average
5	0.230	43.44	0.04	0.02	43.50	62.44	-18.94	QP
6	0.510	22.80	0.04	0.03	22.87	46.00	-23.13	Average
7	2.023	18.97	0.07	0.20	19.24	46.00	-26.76	Average
8	3.881	31.11	0.11	0.08	31.30	56.00	-24.70	QP
9	11.933	28.86	0.24	0.10	29.20	60.00	-30.80	QP
10	13.408	19.33	0.25	0.11	19.69	50.00	-30.31	Average
11	20.704	23.65	0.33	0.18	24.16	50.00	-25.84	Average
12	20.704	32.09	0.33	0.18	32.60	60.00	-27.40	QP

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

Product name:	Smart phone	Product model:	Sky PrestigeX1
Test by:	Mike	Test mode:	PC
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



Trace: 21

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	52.02	0.05	0.01	52.08	66.00	-13.92	QP
2	0.170	37.94	0.05	0.01	38.00	54.94	-16.94	Average
3	0.182	36.18	0.04	0.01	36.23	54.42	-18.19	Average
4	0.182	49.98	0.04	0.01	50.03	64.42	-14.39	QP
5	0.302	37.99	0.04	0.03	38.06	60.19	-22.13	QP
6	0.449	20.99	0.04	0.03	21.06	46.89	-25.83	Average
7	1.487	22.06	0.06	0.14	22.26	46.00	-23.74	Average
8	2.044	29.28	0.06	0.20	29.54	56.00	-26.46	QP
9	11.198	35.44	0.21	0.11	35.76	60.00	-24.24	QP
10	11.317	25.82	0.21	0.11	26.14	50.00	-23.86	Average
11	20.814	23.96	0.31	0.18	24.45	50.00	-25.55	Average
12	20.814	32.07	0.31	0.18	32.56	60.00	-27.44	QP

Notes:

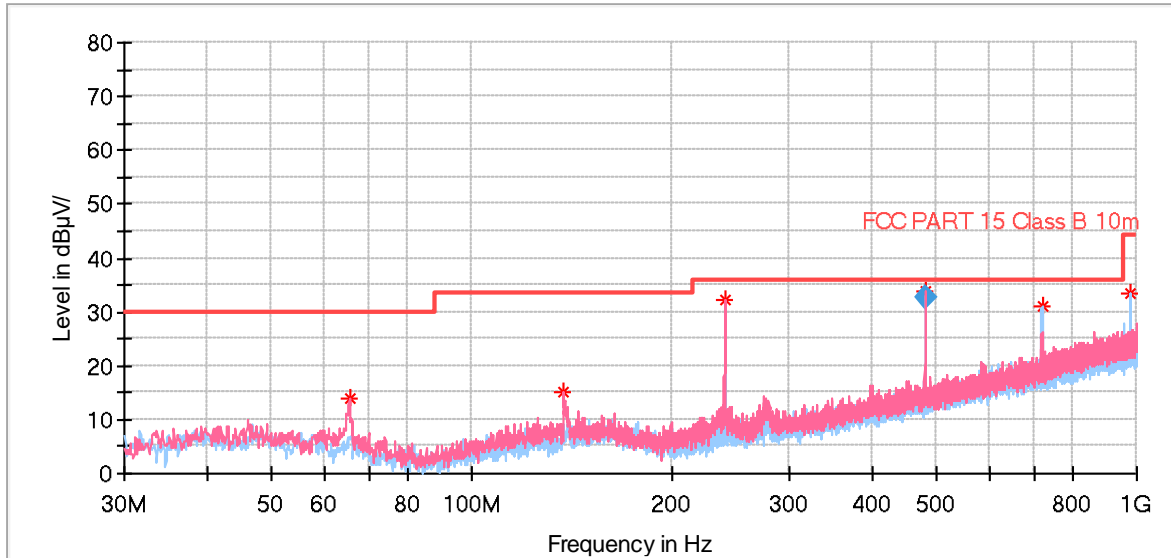
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

6.3 Radiated Emission

Below 1GHz:

Product Name:	Smart phone	Product Model:	Sky PrestigeX1
Test By:	Mike	Test mode:	PC
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120/60Hz		

Full Spectrum



Frequency (MHz)	MaxPeak (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
65.405000	13.90	30.00	16.10	100.0	V	131.0	-17.4
137.573000	14.97	33.50	18.53	100.0	V	144.0	-15.8
240.005000	32.28	36.00	3.72	100.0	V	24.0	-15.7
479.983000	33.70	36.00	2.30	100.0	V	188.0	-9.3
720.058000	31.19	36.00	4.81	100.0	H	135.0	-4.7
975.071000	33.37	44.00	10.63	100.0	H	216.0	-0.4

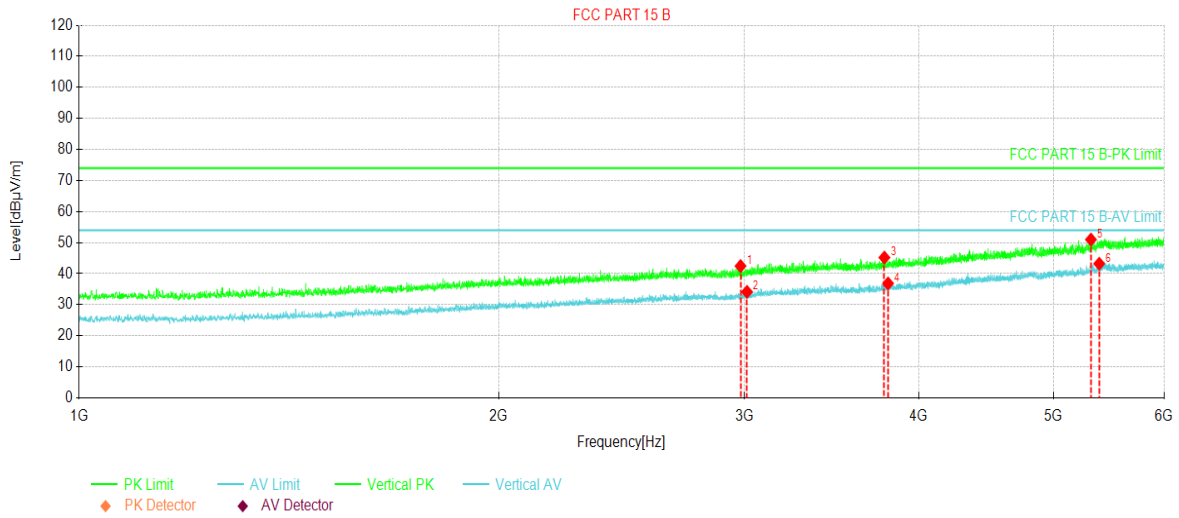
Frequency (MHz)	QuasiPeak (dB µV/m)	Limit (dB µ)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
479.983000	32.76	36.00	3.24	100.0	V	210.0	-9.3

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

Above 1GHz:

Product Name:	Smart phone	Product Model:	Sky PrestigeX1
Test By:	Mike	Test mode:	PC
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

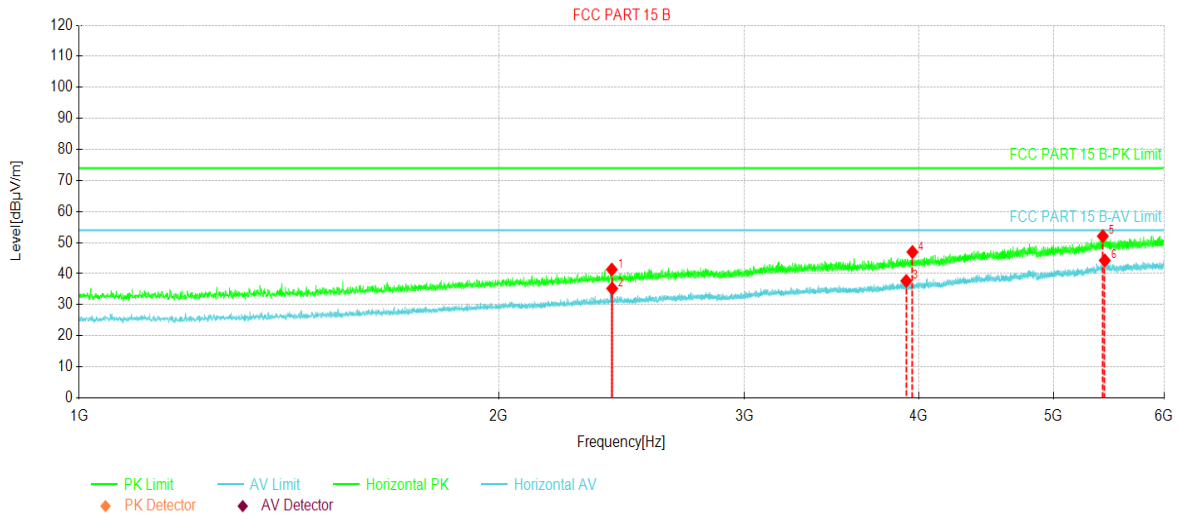


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2981.19	60.03	42.46	-17.57	74.00	31.54	PK	Vertical
2	3013.20	51.48	34.14	-17.34	54.00	19.86	AV	Vertical
3	3780.77	59.80	45.19	-14.61	74.00	28.81	PK	Vertical
4	3803.78	51.34	36.85	-14.49	54.00	17.15	AV	Vertical
5	5317.93	58.28	50.98	-7.30	74.00	23.02	PK	Vertical
6	5391.43	49.89	43.21	-6.68	54.00	10.79	AV	Vertical

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

Product Name:	Smart phone	Product Model:	Sky PrestigeX1
Test By:	Mike	Test mode:	PC
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



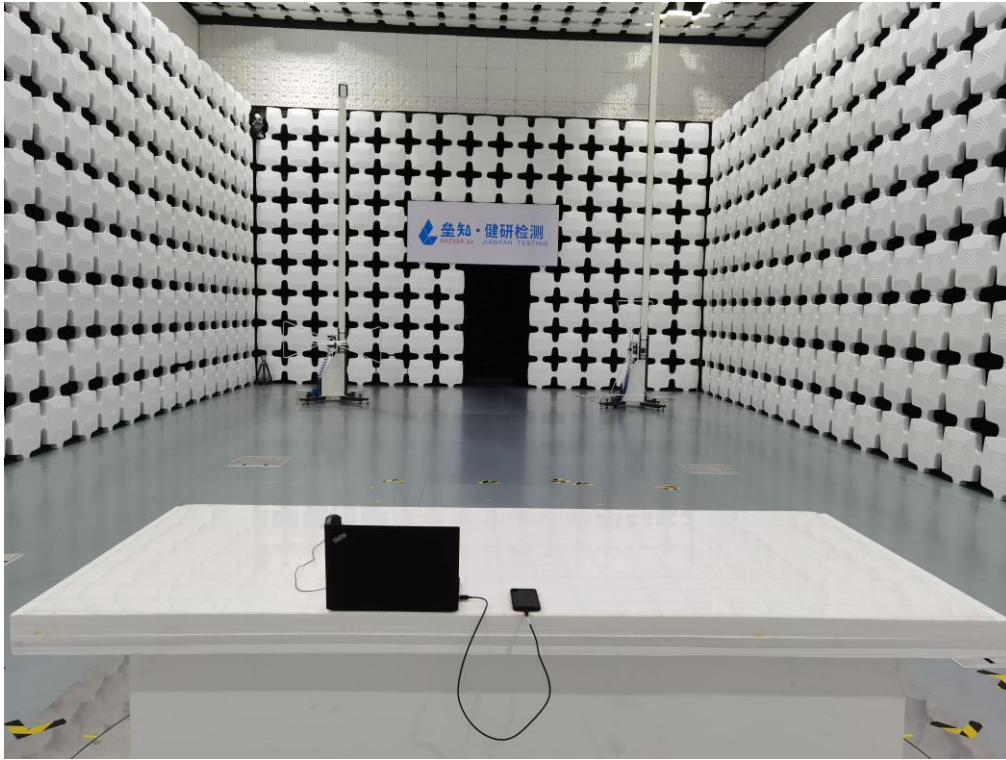
NO.	Freq. [MHz]	Reading[dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2410.14	60.69	41.34	-19.35	74.00	32.66	PK	Horizontal
2	2411.64	54.57	35.22	-19.35	54.00	18.78	AV	Horizontal
3	3919.79	51.61	37.65	-13.96	54.00	16.35	AV	Horizontal
4	3960.29	60.80	46.98	-13.82	74.00	27.02	PK	Horizontal
5	5423.44	58.67	52.07	-6.60	74.00	21.93	PK	Horizontal
6	5440.94	50.86	44.26	-6.60	54.00	9.74	AV	Horizontal

Remark:

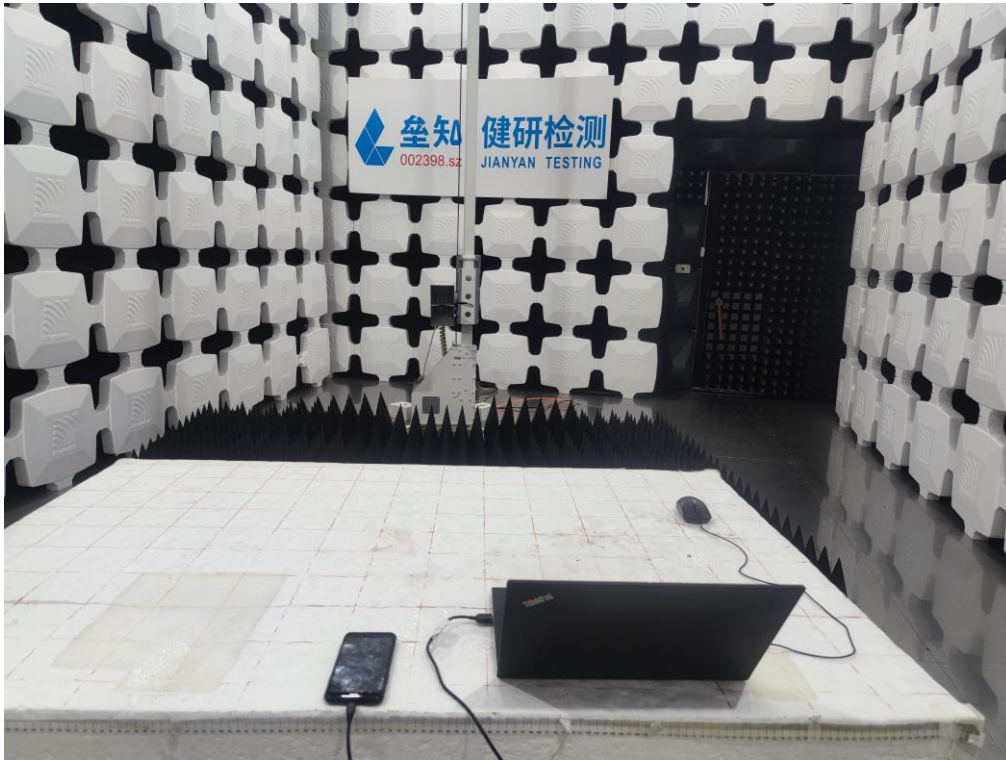
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

7 Test Setup Photo

Radiated Emission
Below 1GHz

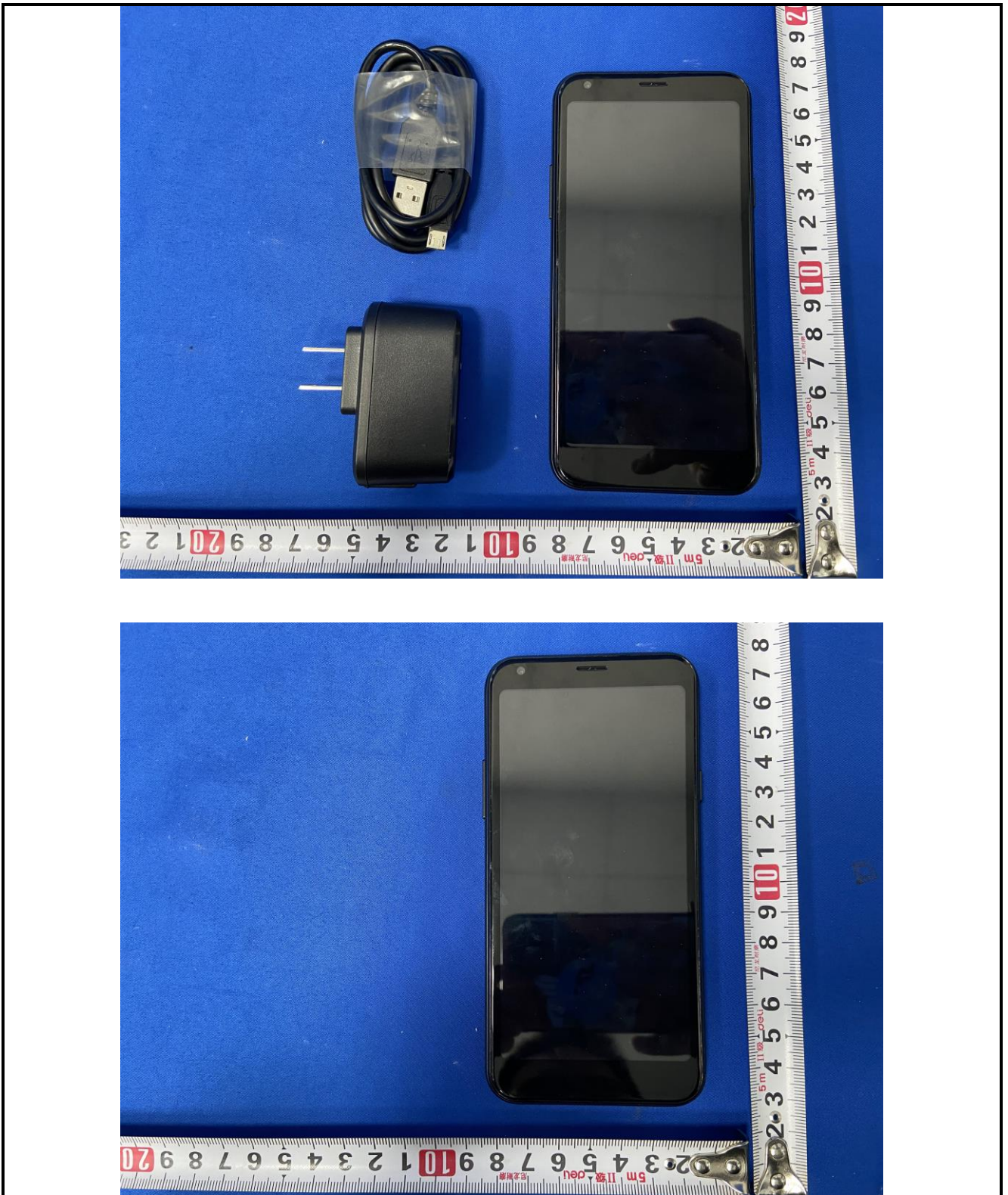


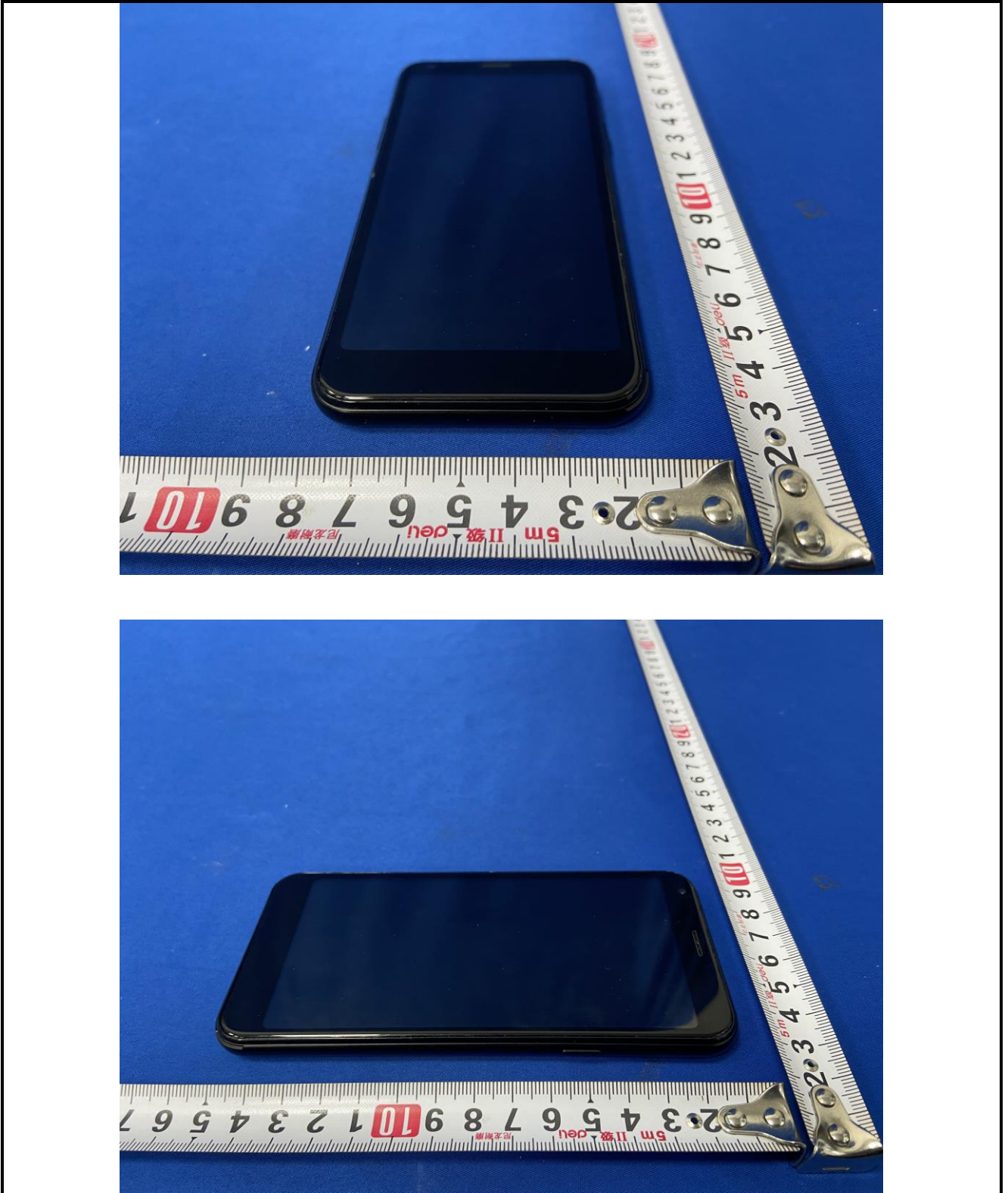
Above 1GHz



Conducted Emission

8 EUT Constructional Details





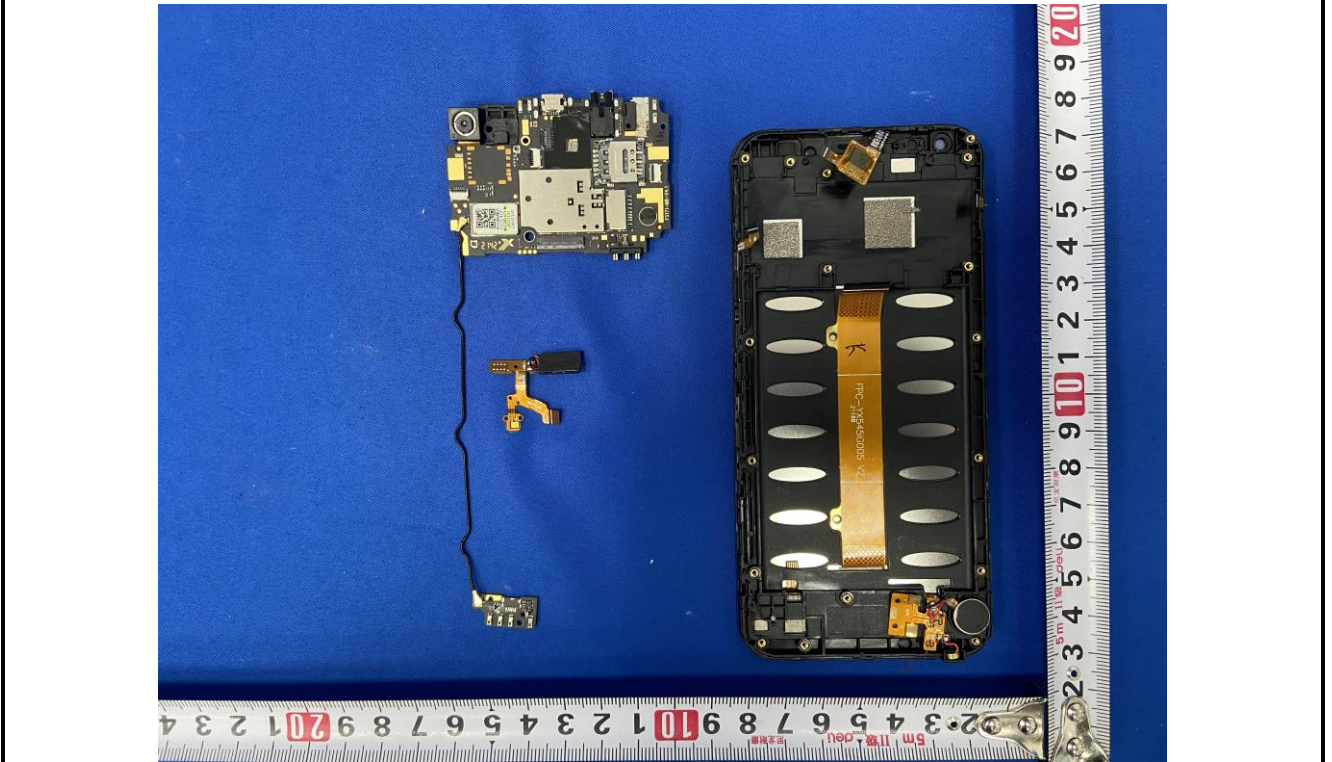
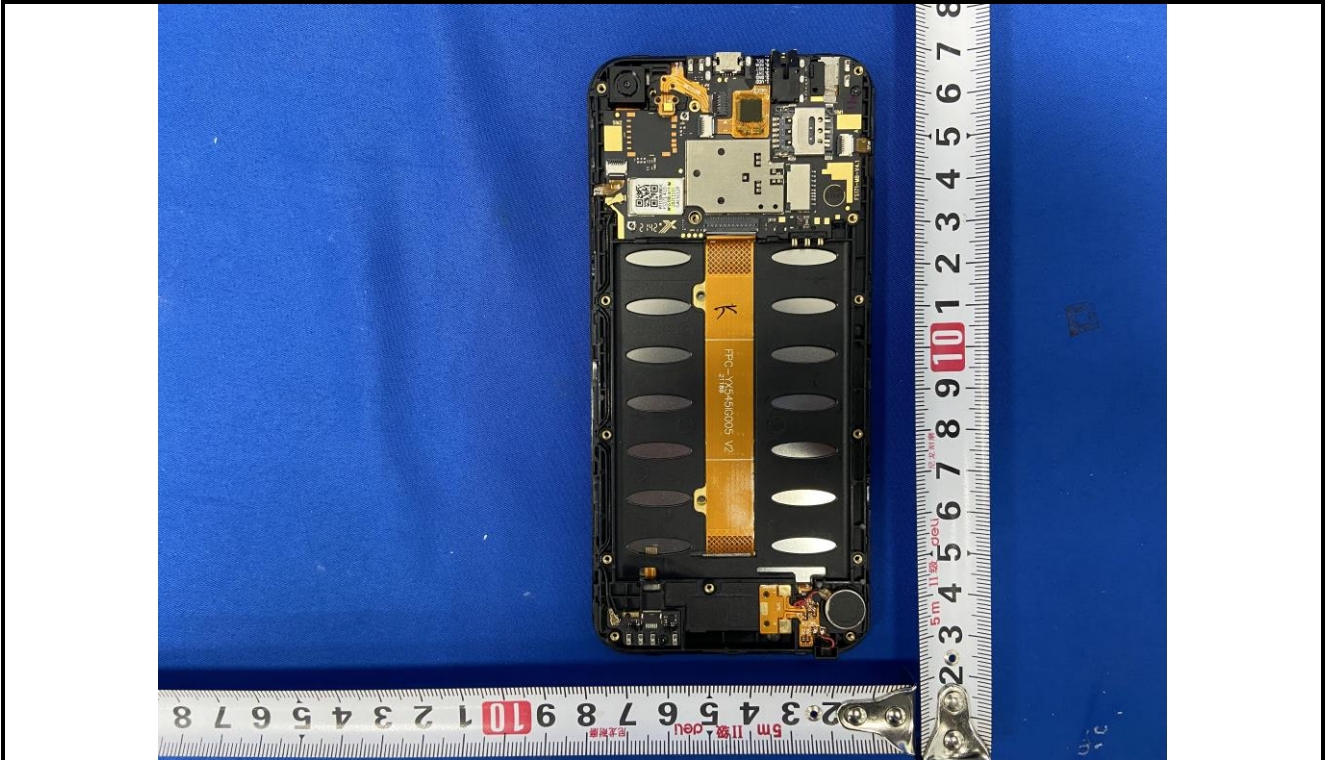


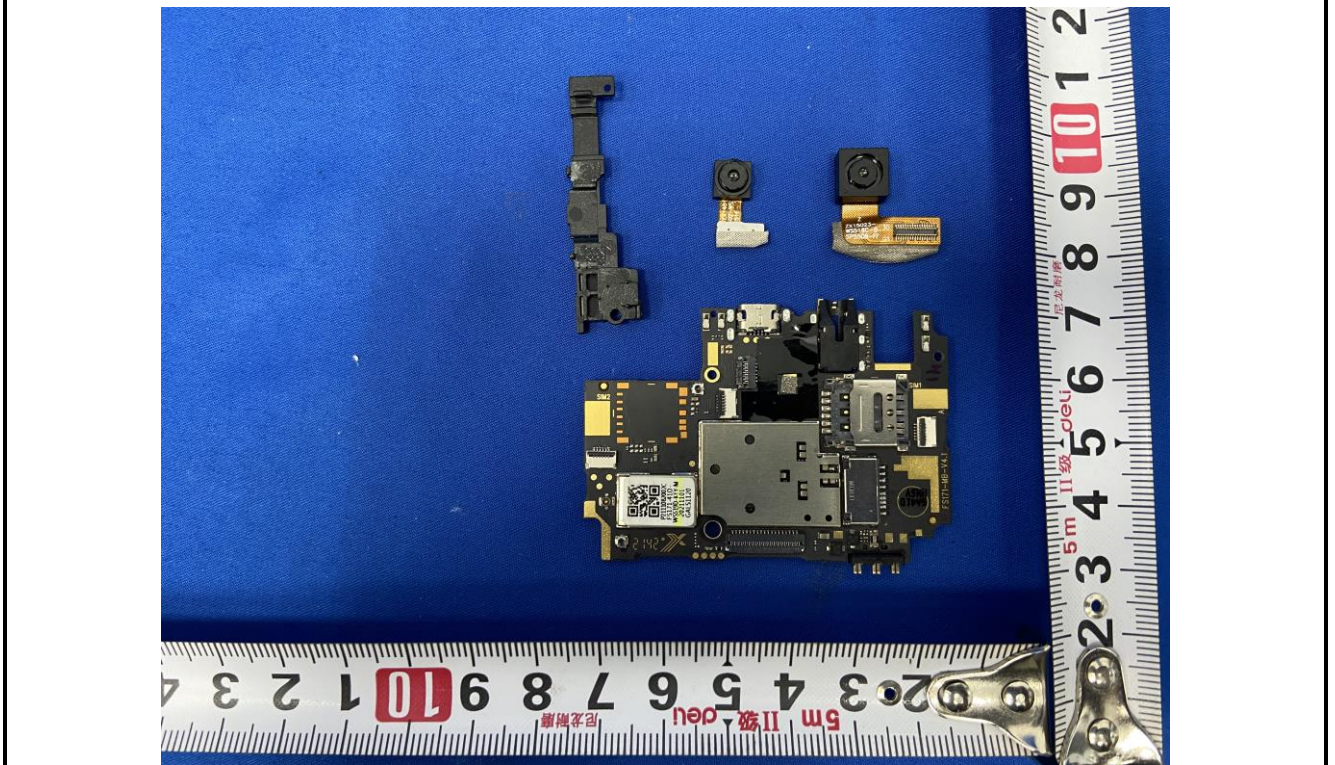
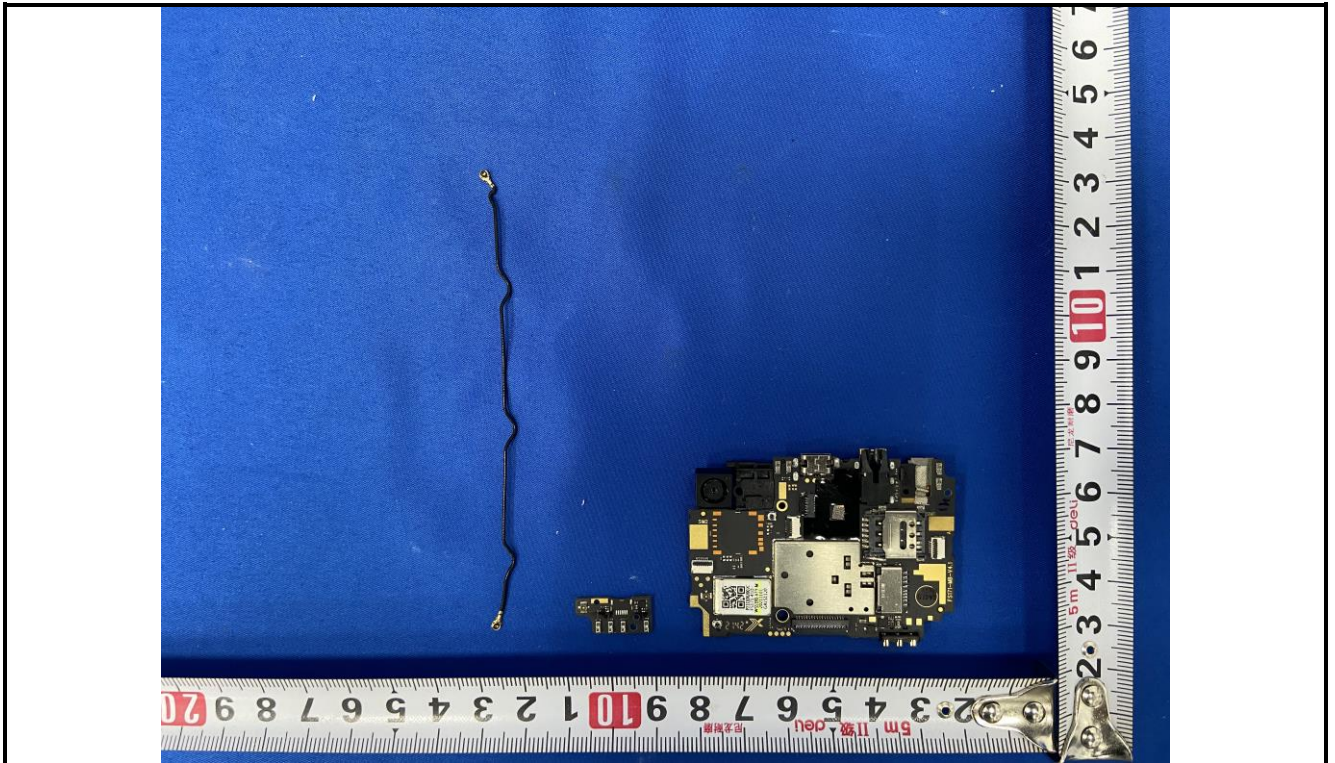


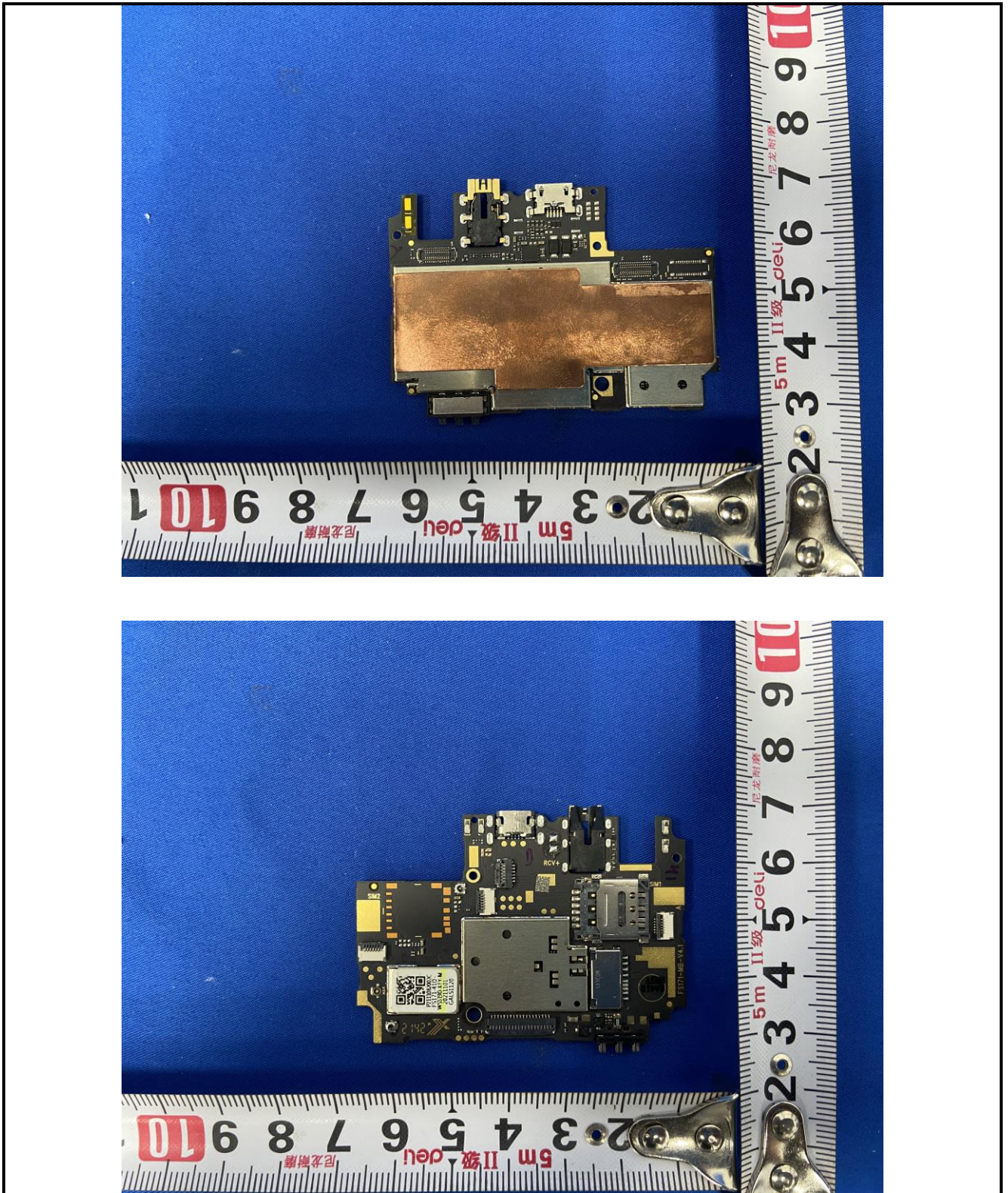


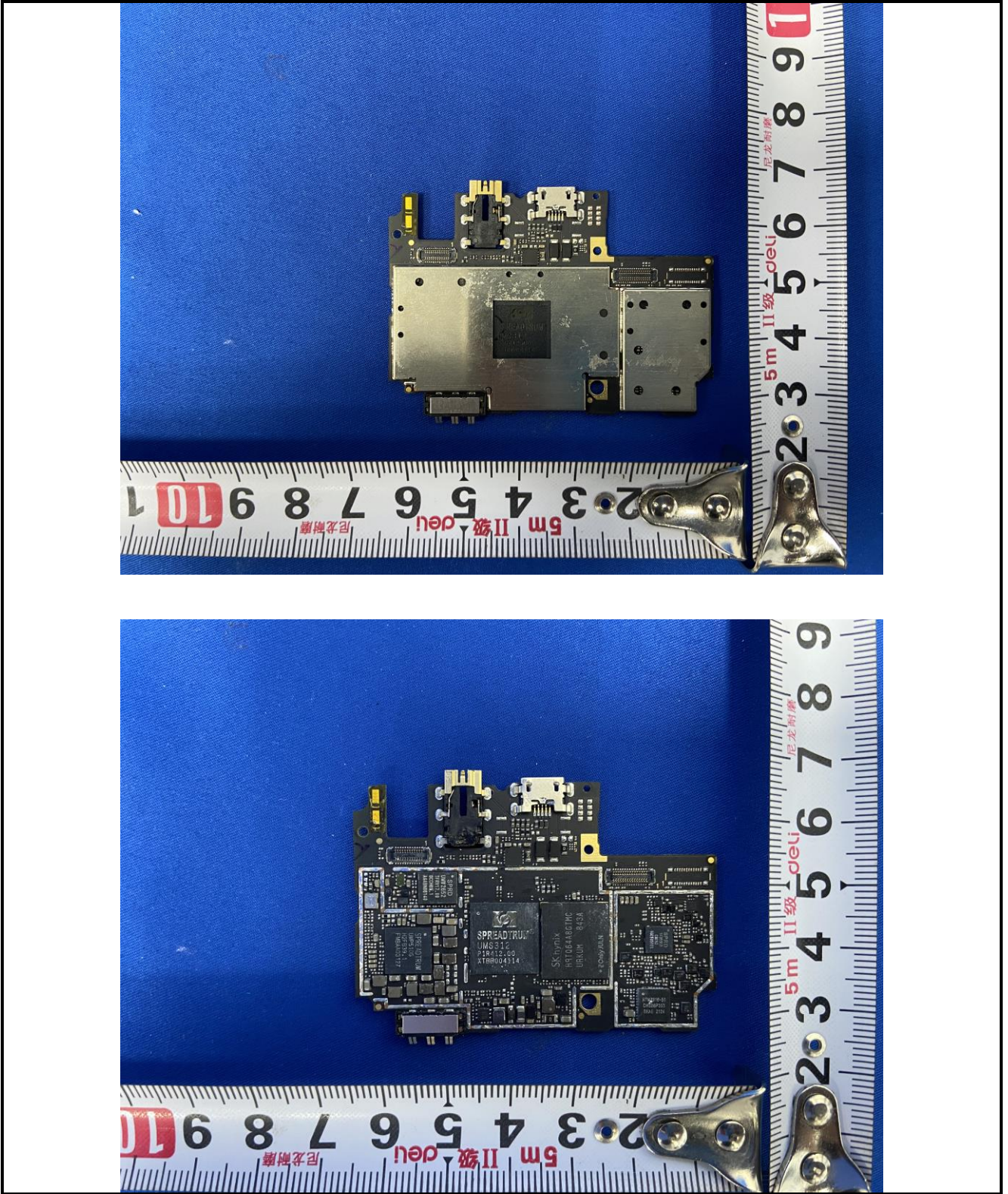


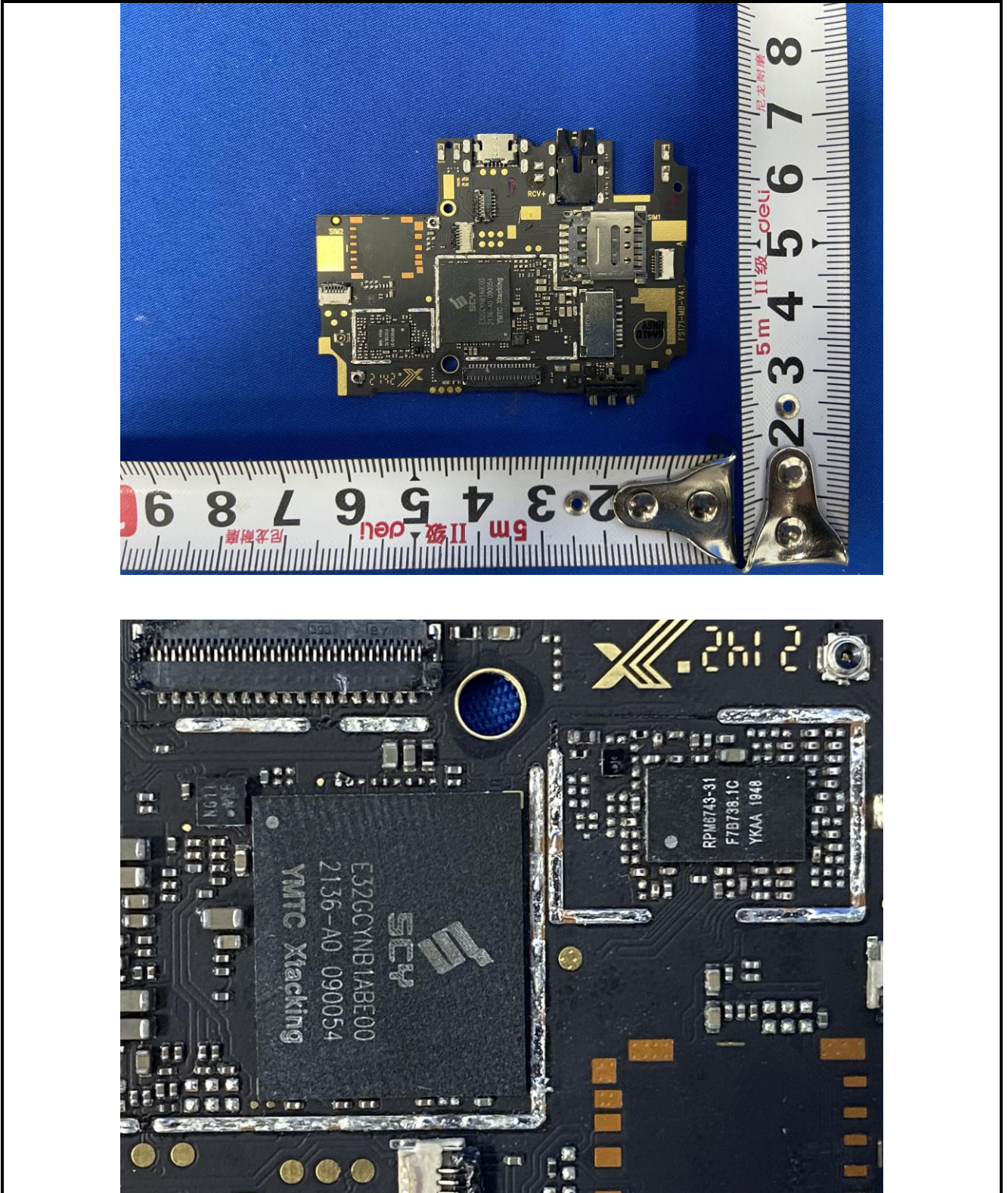


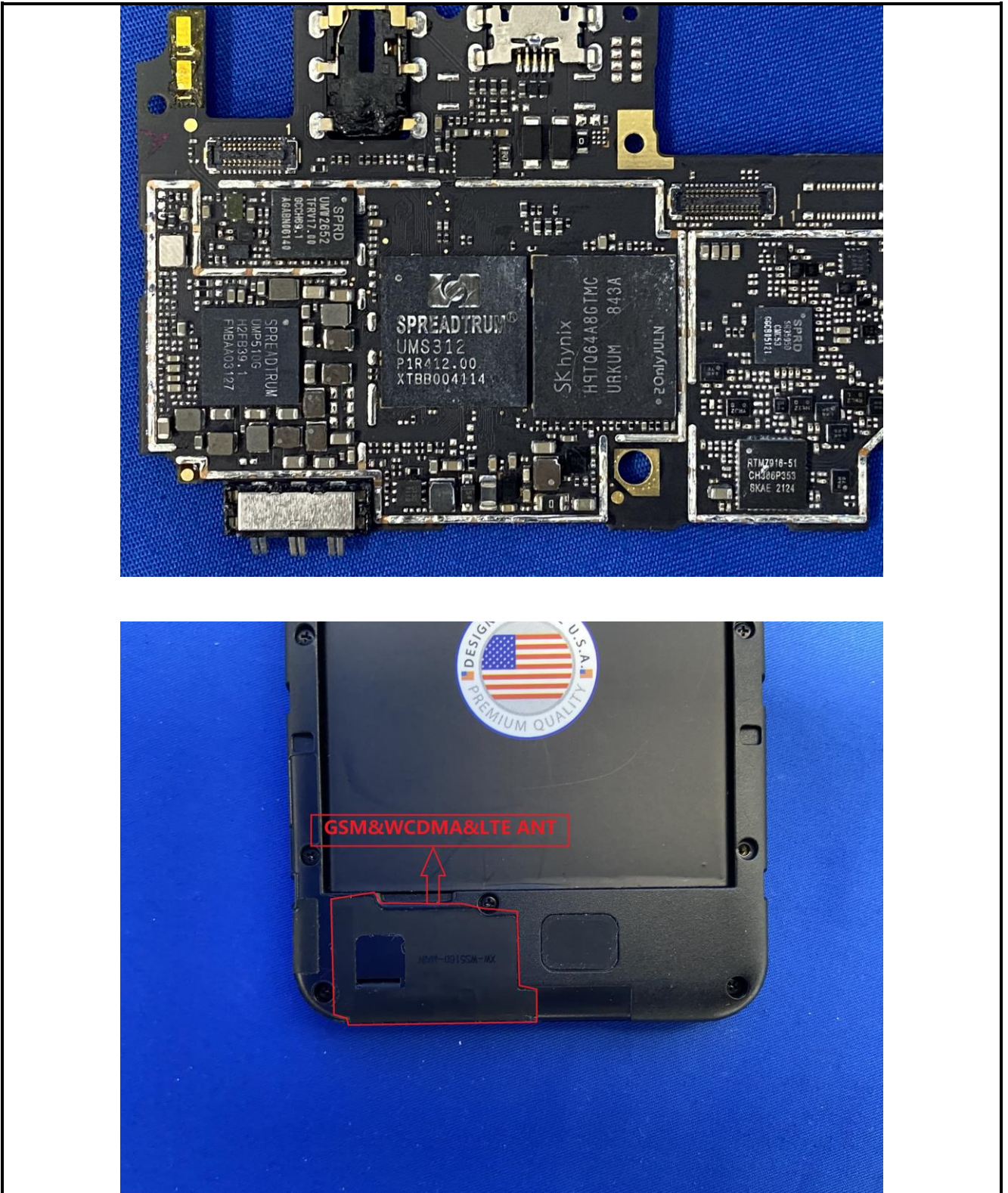


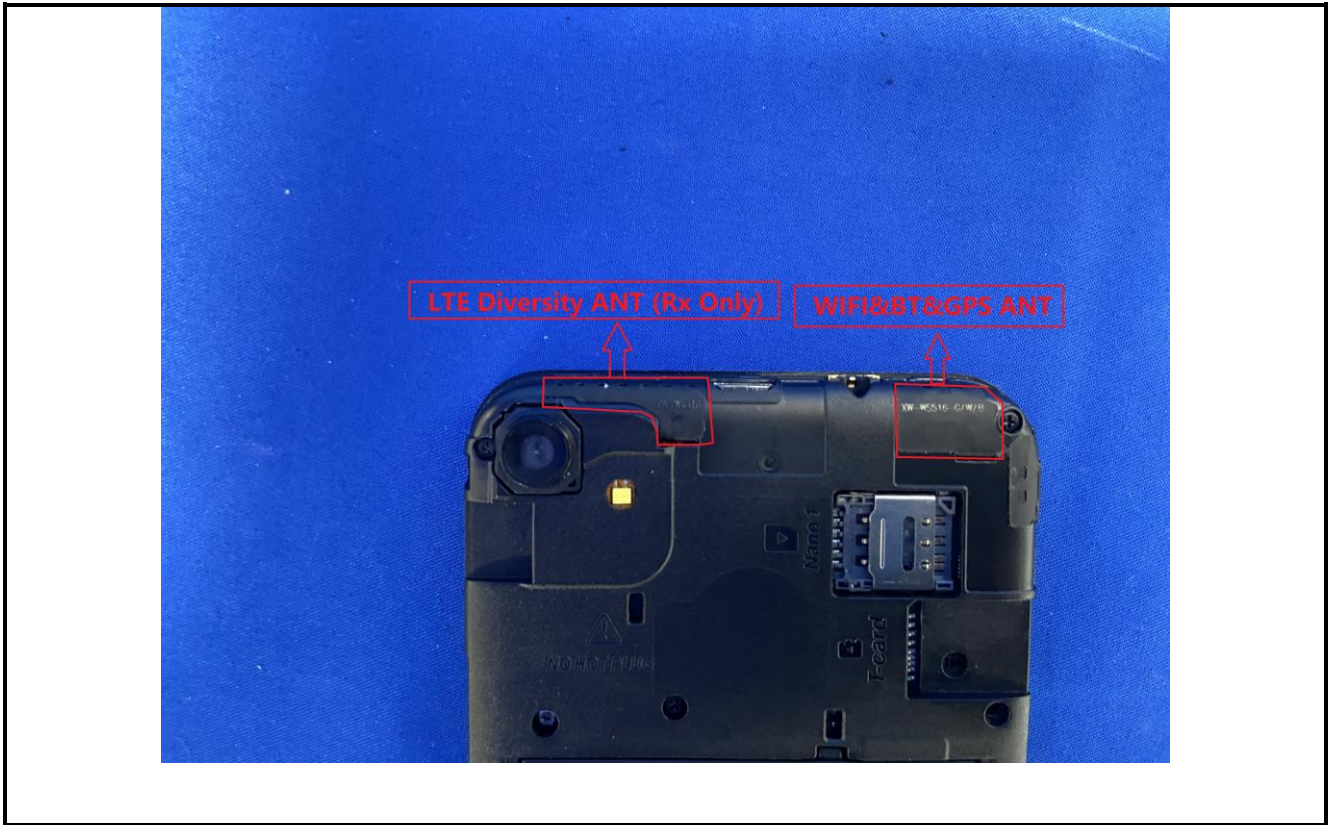












-----End of report-----