Shenzhen CTA Testing Technology Co., Ltd.
Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

TEST REPORT

Report Reference No. ..... :	**CTA25112503807**
Compiled by (position+printed name+signature) .. :	File administrators Zoey Cao
Supervised by (position+printed name+signature) .. :	Project Engineer Ace Chai
Approved by (position+printed name+signature) .. :	RF Manager Eric Wang
Date of issue ..... :	Dec. 11, 2025

Testing Laboratory Name ..... :	**Shenzhen CTA Testing Technology Co., Ltd.**
Address ..... :	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name ..... :	**Shenzhen Tailefeng Communications Co., Ltd.**
Address ..... :	518, Building 420, Bagua Ling Industrial Zone, Yuanling Street, Futian District, Shenzhen, Guangdong Province, China

Test specification ..... :	
Standard ..... :	**ETSI EN 301 489-1 V2.2.3 (2019-11)** **ETSI EN 301 489-17 V3.3.1 (2024-09)** **ETSI EN 301 489-19 V2.2.1 (2022-09)** **ETSI EN 301 489-52 V1.3.1 (2024-11)** **EN 55032:2015+A11:2020** **EN 55035:2017+A11:2020** **EN IEC 61000-3-2:2019/A2:2024** **EN 61000-3-3:2013/A2:2021/AC:2022**

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Test item description..... :	**WCDMA digital mobile phone**
Trade Mark ..... :	ONEMYTH
Manufacturer ..... :	Shenzhen Tailefeng Communications Co., Ltd.
Model/Type reference ..... :	A17 Mini
List Model ..... :	N/A
Hardware version ..... :	A28_MB_V1.9
Software version ..... :	V1.0
Ratings ..... :	Input: 5V ⎓ 1A Battery: 3.8V 900mAh 3.42Wh
Result ..... :	**PASS**

TEST REPORT

Equipment under Test	:	WCDMA digital mobile phone
Model /Type	:	A17 Mini
Listed Models	:	N/A
Applicant	:	**Shenzhen Tailefeng Communications Co., Ltd.**
Address	:	518, Building 420, Bagua Ling Industrial Zone, Yuanling Street, Futian District, Shenzhen, Guangdong Province, China
Manufacturer	:	**Shenzhen Tailefeng Communications Co., Ltd.**
Address	:	518, Building 420, Bagua Ling Industrial Zone, Yuanling Street, Futian District, Shenzhen, Guangdong Province, China

Test Result	**PASS**

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.

Contents

1. TEST STANDARDS 4

2. SUMMARY 5

2.1. General Remarks 5
2.2. Product Description 5
2.3. EUT operation mode 7
2.4. EUT configuration 7
2.5. Modifications 7

3. TEST ENVIRONMENT 8

3.1. Address of the test laboratory 8
3.2. Test Facility 8
3.3. Environmental conditions 8
3.4. Test Description 8
3.5. Statement of the measurement uncertainty 10
3.6. Equipments Used during the Test 11

4. TEST CONDITIONS AND RESULTS 14

4.1. EMISSION 14
4.1.1. Radiated Emission 14
4.1.2. Conducted Emission 19
4.1.3. Harmonic Current Emission 22
4.1.4. Voltage Fluctuation and Flicker 23
4.2. IMMUNITY 24
4.2.1. Performance criteria 24
4.2.2. Monitoring EUT in Immunity Test 27
4.2.3. Electrostatic Discharge 30
4.2.4. RF Electromagnetic Field 32
4.2.5. Surges 34
4.2.6. RF- Common Mode 0.15MHz to 80MHz 35
4.2.7. Fast Transients Common Mode 37
4.2.8. Voltage Dips and Interruptions 38

5. TEST SET-UP PHOTOS OF THE EUT 39

6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT 42

1. TEST STANDARDS

The tests were performed according to following standards:

ETSI EN 301 489-1 V2.2.3 (2019-11)–ElectroMagnetic Compatibility (EMC) tandard for radio equipment and services;Part 1: Common technical requirements;Harmonised Standard for ElectroMagnetic Compatibility
ETSI EN 301 489-17 V3.3.1 (2024-09)–ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility
ETSI EN 301 489-19 V2.2.1 (2022-09) - ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band providing positioning, navigation, and timing data; Harmonised Standard for ElectroMagnetic Compatibility
ETSI EN 301 489-52 V1.3.1 (2024-11)–ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment; Harmonised Standard for ElectroMagnetic Compatibility
EN 55032:2015+A11:2020- Electromagnetic compatibility of multimedia equipment - Emission Requirements
EN 55035:2017+A11:2020- Electromagnetic compatibility of multimedia equipment - Immunity requirements
EN IEC 61000-3-2:2019/A2:2024-Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase)
EN 61000-3-3:2013/A2:2021/AC:2022 Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Nov. 25, 2025
Testing commenced on	:	Nov. 25, 2025
Testing concluded on	:	Dec. 11, 2025

2.2. Product Description

Product Name:	WCDMA digital mobile phone
Model/Type reference:	A17 Mini
Power supply:	Input: 5V ⎓1A Battery: 3.8V 900mAh 3.42Wh
GSM	
Operation Band:	EGSM900,DCS1800
Supported type:	GSM/GPRS
Power Class:	GSM900:Power Class 4 DCS1800:Power Class 1
Modilation Type:	GMSK for GSM/GPRS
GSM Release Version	R99
GPRS Multislot Class	12
EGPRS Multislot Class	N/A
WCDMA	
Operation Band:	FDD Band I and FDD Band VIII
Power Class:	Power Class 3
Modulation Type:	QPSK for WCDMA
WCDMA Release Version:	R7
HSDPA Cat:	14
HSUPA Cat:	6
BR/EDR	
Operation frequency	2402MHz-2480MHz
BT Modulation Type	GFSK, π/4DQPSK, 8DPSK
Bluetooth	Supported BR+EDR
Channel number:	79
BLE	
Modulation Type:	GFSK
Channel separation:	2MHz
Channel number:	40
Modulation Type:	GFSK
2.4GWIFI	
WLAN	Supported 802.11b/802.11g/802.11n HT20/802.11n HT40
WLAN CE Operation	IEEE 802.11b:2412-2472MHz

frequency	IEEE 802.11g:2412-2472MHz IEEE 802.11n HT20:2412-2472MHz IEEE 802.11n HT40:2422-2462MHz
WLAN CE Modulation Type	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
Channel number:	13
Channel separation:	5MHz
GPS	
Regualtory Type:	L1 C/A
Modulation Type	CDMA
Modulation Technology	BPSK
L1 C/A Operation frequency:	1 559 -1 610MHz
BDS	
Regualtory Type:	B1I,
Modulation Type	CDMA
Modulation Technology	BPSK
B1I Operation frequency:	1 559 -1 610MHz
Antenna Type	PIFA Antenna
GLONASS	
Regualtory Type:	G1
Modulation Type	CDMA
Modulation Technology	BPSK
G1 Operation frequency:	1 559 -1 610MHz
Antenna Type	PIFA Antenna
Galileo	
Regualtory Type:	E1
Modulation Type	CDMA
Modulation Technology	BPSK
G1 Operation frequency:	1 559 -1 610MHz
Antenna Type	PIFA Antenna

2.3. EUT operation mode

Test mode	GSM900		GSM 1800		WCDMA Band I		WCDMA Band 8		BT	WIFI	GPS/ BDS/ GLONASS/ Galileo	Playing Vedio	Camera
	L	I	L	I	L	I	L	I					
1	■								■		■		
2			■						■		■		
3					■				■		■		
4							■		■		■		
5	■									■	■		
6			■							■	■		
7					■					■	■		
8							■			■	■		
9		■							■		■	■	
10				■					■		■	■	
11					■				■		■	■	
12								■	■		■	■	
13		■								■	■	■	
14				■						■	■	■	
15						■				■	■	■	
16								■		■	■	■	
17		■							■		■		■
18				■					■		■		■
19						■			■		■		■
20								■	■		■		■
21										■	■		■
22										■	■		■
23										■	■		■
24										■	■		■

Mode:25: Data transmission

Note:

1. ■ is operation mode.
2. Pre-scan above all test mode, found below test mode which it was worse case mode.

Test item	Test mode (Worse case mode)
Conducted emission	Mode 1
Radiated emission	Mode 25
EMS	All Modes

2.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

	/ Adapter information (Auxiliary test supplied by test Lab):	Model: EP-TA20CBC Input: AC 100-240V 50/60Hz Output: DC 5V 2A

2.5. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.
Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:
FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Lative Humidity	55 %
Air Pressure	989 hPa

3.4. Test Description

Emission Measurement		
Radiated Emission	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.3.1 (2024-09) ETSI EN 301 489-19 V2.2.1 (2022-09) ETSI EN 301 489-52 V1.3.1 (2024-11) EN 55032:2015+A11:2020	PASS
Conducted Emission	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.3.1 (2024-09) ETSI EN 301 489-19 V2.2.1 (2022-09) ETSI EN 301 489-52 V1.3.1 (2024-11) EN 55032:2015+A11:2020	PASS
Harmonic Current Emissions	ETSI EN 301 489-1 V2.2.3 (2019-11) EN 55032:2015+A11:2020 EN IEC 61000-3-2:2019/A2:2024	N/A
Voltage Fluctuations and Flicker	ETSI EN 301 489-1 V2.2.3 (2019-11) EN 55032:2015+A11:2020 EN 61000-3-3:2013/A2:2021/AC:2022	N/A
Immunity Measurement		
Electrostatic Discharge	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.3.1 (2024-09) ETSI EN 301 489-19 V2.2.1 (2022-09) ETSI EN 301 489-52 V1.3.1 (2024-11) EN 55035:2017+A11:2020	PASS

RF Electromagnetic Field	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.3.1 (2024-09) ETSI EN 301 489-19 V2.2.1 (2022-09) ETSI EN 301 489-52 V1.3.1 (2024-11) EN 55035:2017+A11:2020	PASS
Fast Transients Common Mode	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.3.1 (2024-09) ETSI EN 301 489-19 V2.2.1 (2022-09) ETSI EN 301 489-52 V1.3.1 (2024-11) EN 55035:2017+A11:2020	PASS
RF Common Mode 0,15 MHz to 80 MHz	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.3.1 (2024-09) ETSI EN 301 489-19 V2.2.1 (2022-09) ETSI EN 301 489-52 V1.3.1 (2024-11) EN 55035:2017+A11:2020	PASS
Voltage Dips and Interruptions	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.3.1 (2024-09) ETSI EN 301 489-19 V2.2.1 (2022-09) ETSI EN 301 489-52 V1.3.1 (2024-11) EN 55035:2017+A11:2020	PASS
Surges	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.3.1 (2024-09) ETSI EN 301 489-19 V2.2.1 (2022-09) ETSI EN 301 489-52 V1.3.1 (2024-11) EN 55035:2017+A11:2020	PASS

Remark:1. N/A means "not applicable".

2.The measurement uncertainty is not included in the test result.

3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.
Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	/	0.57 dB	(1)
Spectrum bandwidth	/	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6. Equipments Used during the Test

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Equipment No.	Last Cal.	Cal.Due
1	EMI Test Receiver	R&S	ESPI	CTA-307	2025/07/30	2026/07/29
2	Artificial Mains	R&S	ENV-216	CTA-308	2025/8/4	2026/08/03
3	Artificial Mains	R&S	ENV-216	CTA-314	2025/07/30	2026/07/29
4	ISN	Schwarzbeck	NTFM8158	CTA-407	2025/07/30	2026/07/29
5	ISN	Schwarzbeck	CAT58158	CTA-408	2025/07/30	2026/07/29
6	ISN	Schwarzbeck	CAT38158	CTA-409	2025/07/30	2026/07/29
7	Universal Radio Communication	R&S	CMW500	CTA-302	2025/07/30	2026/07/29

Harmonic Current/ Voltage Fluctuation and Flicker						
Item	Test Equipment	Manufacturer	Model No.	Equipment No.	Last Cal.	Cal.Due
1	Harmonic and Flicker Analyzer	Voltech	PM6000	CTA-339	2025/5/7	2026/05/06
2	Universal Radio Communication	R&S	CMW500	CTA-302	2025/07/30	2026/07/29

Electrostatic Discharge						
Item	Test Equipment	Manufacturer	Model No.	Equipment No.	Last Cal.	Cal.Due
1	ESD Simulators	NOISEKEN	ESS-100L(A)	CTA-315	2025/5/18	2026/05/17
2	Universal Radio Communication	R&S	CMW500	CTA-302	2025/07/30	2026/07/29

Radiated Emission						
Item	Test Equipment	Manufacturer	Model No.	Equipment No.	Last Cal.	Cal.Due
1	Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2026/10/16
2	Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2026/10/12
3	Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2026/10/16
4	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	CTA-306	2025/07/30	2026/07/29

5	Universal Radio Communication	R&S	CMW500	CTA-302	2025/07/30	2026/07/29
6	Band-reject filter	Xi'an Xingbo Technology Co.,Ltd	XBLBQ-DZA66	CTA-410	2025/07/30	2026/07/29
7	Band-reject filter	Xi'an Xingbo Technology Co.,Ltd	XBLBQ-DZA64	CTA-411	2025/07/30	2026/07/29
8	Band-reject filter	Xi'an Xingbo Technology Co.,Ltd	XBLBQ-DZA63	CTA-411	2025/07/30	2026/07/29
9	High-pass filter	Xi'an Xingbo Technology Co.,Ltd	XBLBQ-GTA10	CTA-412	2025/07/30	2026/07/29
10	High-pass filter	Xi'an Xingbo Technology Co.,Ltd	XBLBQ-GTA18	CTA-402	2025/07/30	2026/07/29

Electrical Fast Transient						
Item	Test Equipment	Manufacturer	Model No.	Equipment No.	Last Cal.	Cal.Due
1	Fast Transient Burst Simulator	Prima	EFT61004TA	CTA-316	2025/07/30	2026/07/29
2	Coupling Clamp	Prima	EFT-CLAMP	CTA-317	2025/07/30	2026/07/29
3	Universal Radio Communication	R&S	CMW500	CTA-302	2025/07/30	2026/07/29

Surge						
Item	Test Equipment	Manufacturer	Model No.	Equipment No.	Last Cal.	Cal.Due
1	Lightning Surge Generator	Prima	SUG61005TB	CTA-318	2025/07/30	2026/07/29
2	Lightning Surge Generator	Prima	SUG10/700TA	CTA-319	2025/07/30	2026/07/29
3	Universal Radio Communication	R&S	CMW500	CTA-302	2025/07/30	2026/07/29

Dips						
Item	Test Equipment	Manufacturer	Model No.	Equipment No.	Last Cal.	Cal.Due
1	Cycle Sag Simulator	Prima	DRP61011TA	CTA-321	2025/07/30	2026/07/29
2	Universal Radio Communication	R&S	CMW500	CTA-302	2025/07/30	2026/07/29

RF Field Strength Susceptibility						
Item	Test Equipment	Manufacturer	Model No.	Equipment No.	Last Cal.	Cal.Due
1	SIGNAL GENERATOR	Agilent	N5182A	CTA-305	2025/07/30	2026/07/29
2	POWER AMPLIFIER	AR	150W1000	CTA-413	2025/07/30	2026/07/29

3	POWER AMPLIFIER	Mictop	MPA-1000-6000-100	CTA-414	2025/07/30	2026/07/29
4	DUAL DIRECTIONAL COUPLER	AR	DC6080	CTA-415	2025/07/30	2026/07/29
5	POWER METER	Agilent	E4419B	CTA-416	2025/07/30	2026/07/29
6	Power sensor	Agilent	E9301A	CTA-417	2025/07/30	2026/07/29
7	Power sensor	Agilent	8483A	CTA-418	2025/07/30	2026/07/29
8	TRANSMITTING ANTENNA	AR	AT1080	CTA-419	2025/07/30	2026/07/29
9	TRANSMITTING ANTENNA	Schwarzbeck	STLP 9149	CTA-420	2025/07/30	2026/07/29
10	Radio Communication Tester	R&S	CMW500	CTA-302	2025/07/30	2026/07/29
11	Audio Analyzer	R&S	UPL	CTA-421	2025/07/30	2026/07/29

Conducted Susceptibility						
Item	Test Equipment	Manufacturer	Model No.	Equipment No.	Last Cal.	Cal.Due
1	CS Test system	Schloder	CDG 6000-75	CTA-322	2025/08/04	2026/08/03
2	CDN M2+M3	Zhinan	ZN3750	CTA-323	2025/08/04	2026/08/03
3	6dB Attenuator	Schloder	CDG60100	CTA-324	2025/08/04	2026/08/03
4	EM Clamp	Schloder	EMCL-20	CTA-325	2025/08/04	2026/08/03
5	Audio Analyzer	R&S	UPL	CTA-421	2025/07/30	2026/07/29
6	Universal Radio Communication	R&S	CMW500	CTA-302	2025/07/30	2026/07/29

Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date
EMI Test Software	Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A
EMI Test Software	Tonscend	TS®JS32-CE	5.0.0.1	N/A	N/A
RF Test Software	Tonscend	TS®JS1120-3	3.1.65	N/A	N/A
RF Test Software	Tonscend	TS®JS1120	3.1.46	N/A	N/A

4. TEST CONDITIONS AND RESULTS

4.1. EMISSION

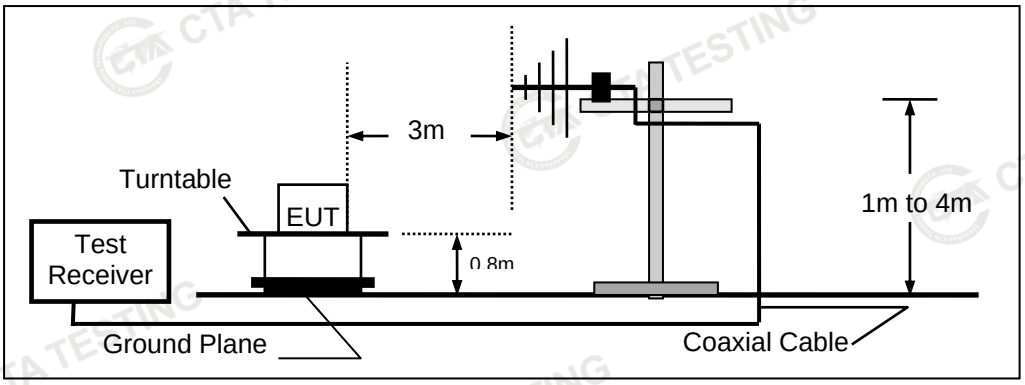
4.1.1. Radiated Emission

LIMIT

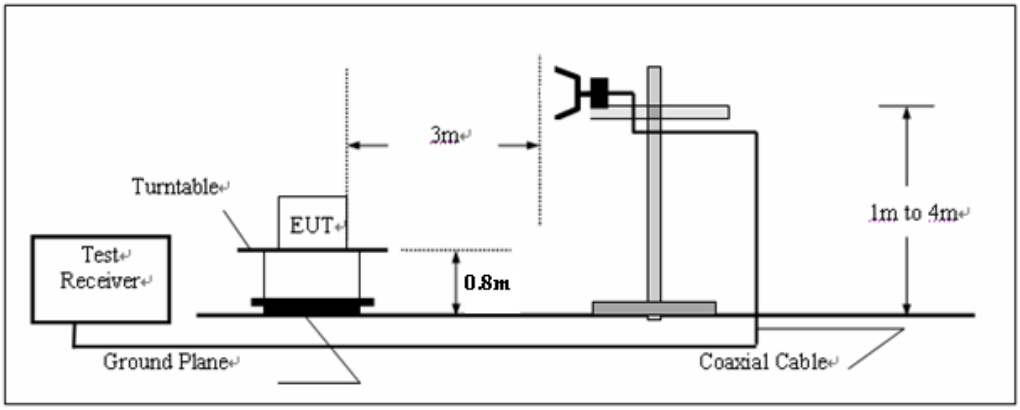
Please refer to ETSI EN301489-1 Clause 8.2.3, Table 4 and EN55032 Annex A, Table A.2,A.3, and Class B

TEST CONFIGURATION

a) Radiated emission test set-up, frequency below 1000MHz:



b) Radiated emission test set-up, frequency above 1000MHz



TEST PROCEDURE

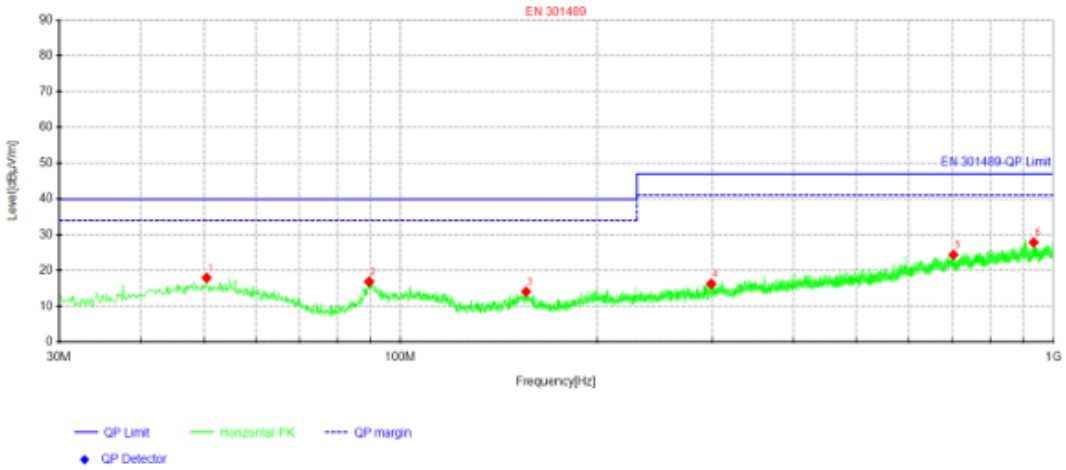
Please refer to ETSI EN 301 489-1 Clause 8.2.3 and EN55032 Annex A for the measurement methods

TEST RESULTS

Passed

Please refer to the below test data:

Test mode:	Mode 25	Polarization	Horizontal



Suspected Data List

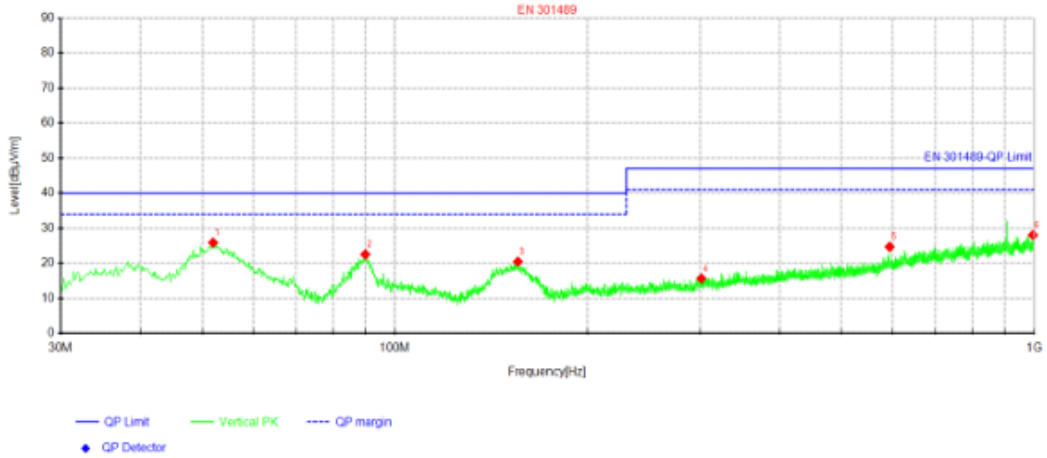
NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	50.4912	28.66	17.97	-10.69	40.00	22.03	100	321	Horizontal
2	89.5338	31.54	16.89	-14.65	40.00	23.11	100	183	Horizontal
3	155.736	30.32	14.10	-16.22	40.00	25.90	100	321	Horizontal
4	299.175	28.31	16.27	-12.04	47.00	30.73	100	229	Horizontal
5	702.816	28.98	24.38	-4.60	47.00	22.62	100	0	Horizontal
6	932.585	29.59	27.86	-1.73	47.00	19.14	100	293	Horizontal

Note:1).Level (dBµV/m)= Reading (dBµV/m)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

Test mode:	Mode 25	Polarization	Vertical



Suspected Data List

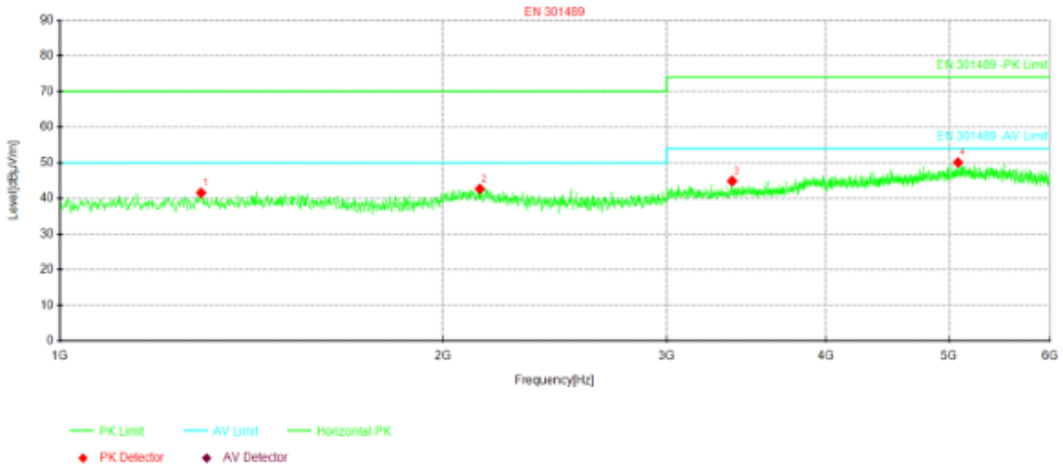
NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	51.9462	36.52	25.88	-10.64	40.00	14.12	100	72	Vertical
2	89.8975	37.10	22.53	-14.57	40.00	17.47	100	141	Vertical
3	155.736	36.67	20.45	-16.22	40.00	19.55	100	342	Vertical
4	301.478	27.64	15.64	-12.00	47.00	31.36	100	282	Vertical
5	594.055	31.34	24.69	-6.65	47.00	22.31	100	298	Vertical
6	995.271	29.13	28.04	-1.09	47.00	18.96	100	195	Vertical

Note:1).Level (dBµV/m)= Reading (dBµV/m)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

Test mode:	Mode 25	Polarization	Horizontal



Suspected Data List

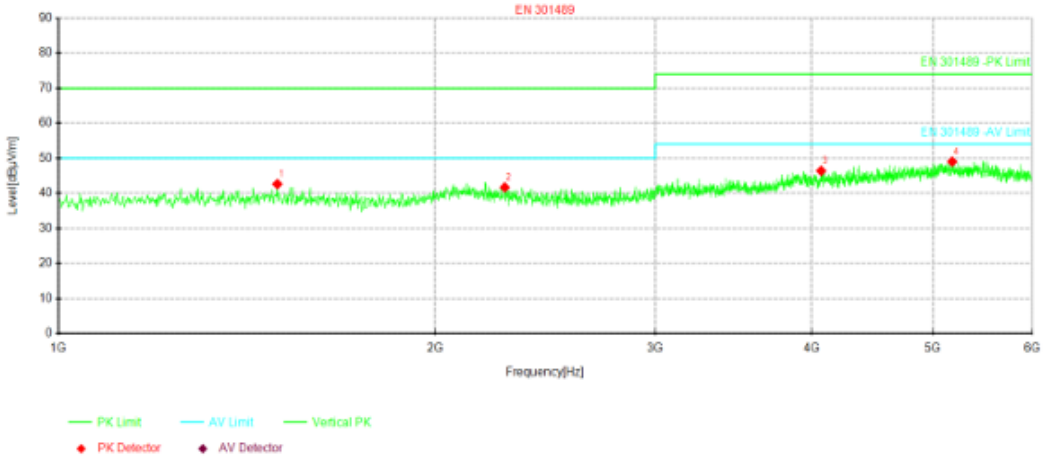
NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1291.25	66.62	41.57	-25.05	70.00	28.43	100	10	Horizontal
2	2138.75	64.38	42.66	-21.72	70.00	27.34	100	90	Horizontal
3	3376.25	63.50	44.87	-18.63	74.00	29.13	100	40	Horizontal
4	5081.25	64.36	50.07	-14.29	74.00	23.93	100	60	Horizontal

Note:1).Level (dBµV/m)= Reading (dBµV/m)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

Test mode:	Mode 25	Polarization	Vertical



Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1496.25	66.94	42.63	-24.31	70.00	27.37	100	50	Vertical
2	2273.75	63.24	41.71	-21.53	70.00	28.29	100	50	Vertical
3	4070	62.82	46.41	-16.41	74.00	27.59	100	10	Vertical
4	5180	63.28	49.04	-14.24	74.00	24.96	100	60	Vertical

Note:1).Level (dBµV/m)= Reading (dBµV/m)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

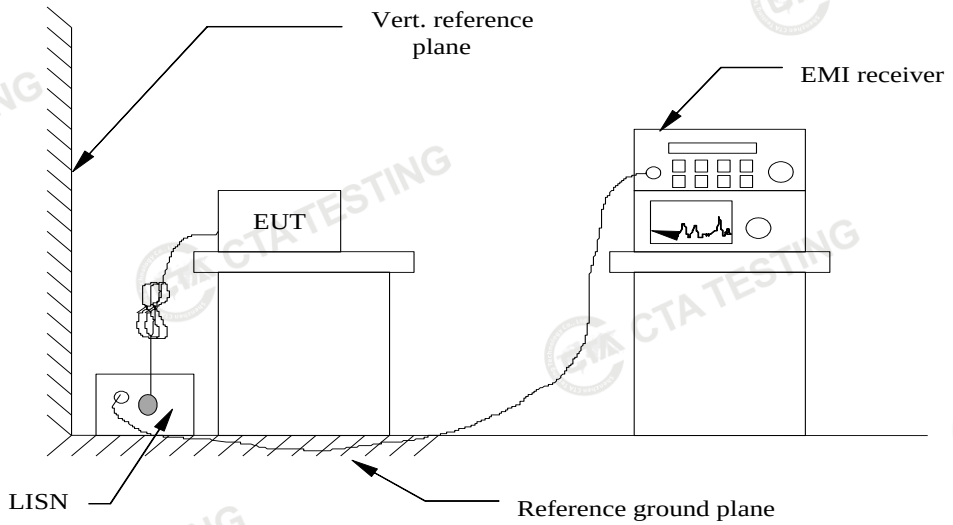
3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)

4.1.2. Conducted Emission

LIMIT

Please refer to ETSI EN301489-1 Clause 8.4.3, Table 8 and EN55032 Annex A, Table A.10, A.12

TEST CONFIGURATION



TEST PROCEDURE

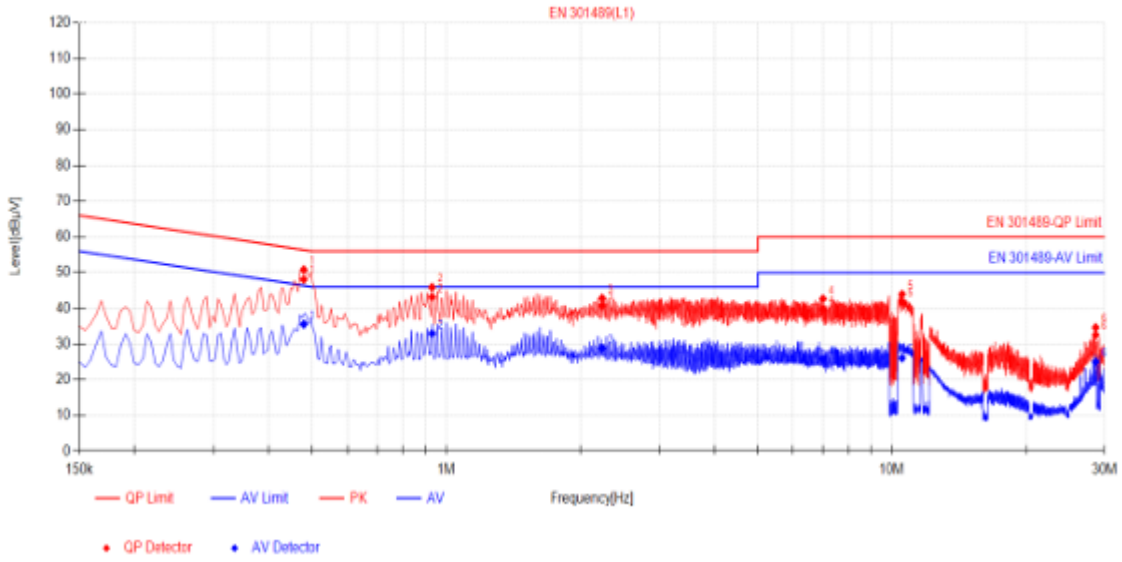
Please refer to ETSI EN 301 489-1 Clause 8.4.3 and EN55032 Annex A for the measurement methods.

TEST RESULTS

Passed

Please refer to the below test data:

Test mode:	Mode 1	Polarization	L



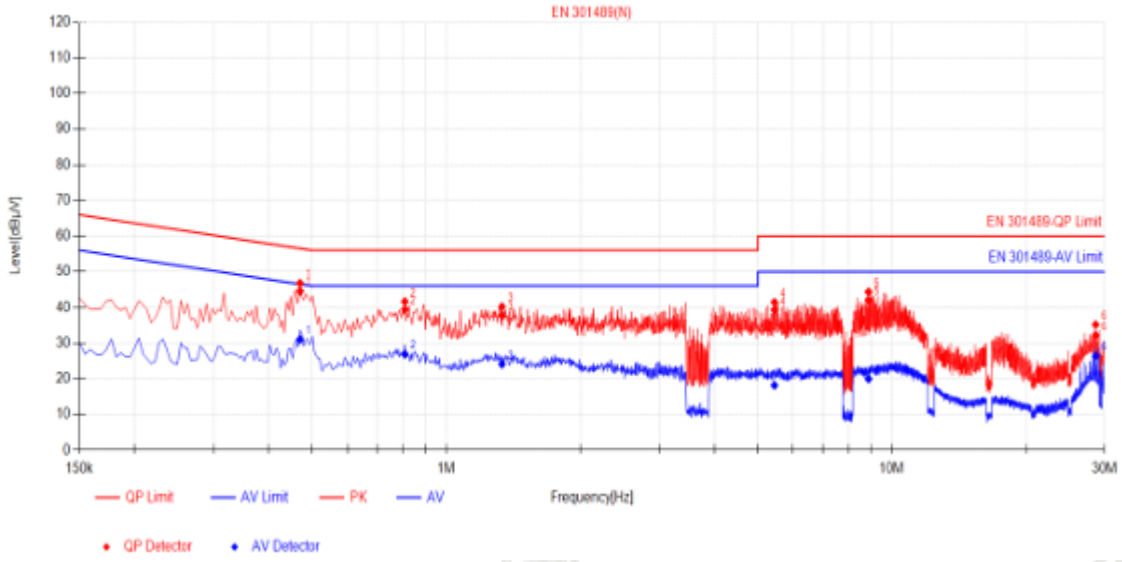
Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.4785	10.28	37.79	48.07	56.37	8.30	25.27	35.55	46.37	10.82	PASS
2	0.9285	10.42	32.73	43.15	56.00	12.85	22.52	32.94	46.00	13.06	PASS
3	2.238	10.52	30.26	40.78	56.00	15.22	18.30	28.82	46.00	17.18	PASS
4	7.008	11.11	28.59	39.70	60.00	20.30	14.66	25.77	50.00	24.23	PASS
5	10.5495	11.62	30.17	41.79	60.00	18.21	14.44	26.06	50.00	23.94	PASS
6	28.6845	13.48	19.08	32.56	60.00	27.44	11.54	25.02	50.00	24.98	PASS

Note:1).Result (dBµV/m)= Reading (dBµV/m)+ Factor (dB/m)

2). Factor(dB/m)=Cable loss (dB) + LISN Factor (dB)

Test mode:	Mode 1	Polarization	N



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.4695	10.24	34.31	44.55	56.52	11.97	20.80	31.04	46.52	15.48	PASS
2	0.807	10.32	29.11	39.43	56.00	16.57	16.59	26.91	46.00	19.09	PASS
3	1.3335	10.40	27.26	37.66	56.00	18.34	13.70	24.10	46.00	21.90	PASS
4	5.451	10.98	28.35	39.33	60.00	20.67	7.18	18.16	50.00	31.84	PASS
5	8.8665	11.45	30.56	42.01	60.00	17.99	8.54	19.99	50.00	30.01	PASS
6	28.6845	13.71	18.50	32.21	60.00	27.79	12.71	26.42	50.00	23.58	PASS

Note:1).Result (dBµV/m)= Reading (dBµV/m)+ Factor (dB/m)

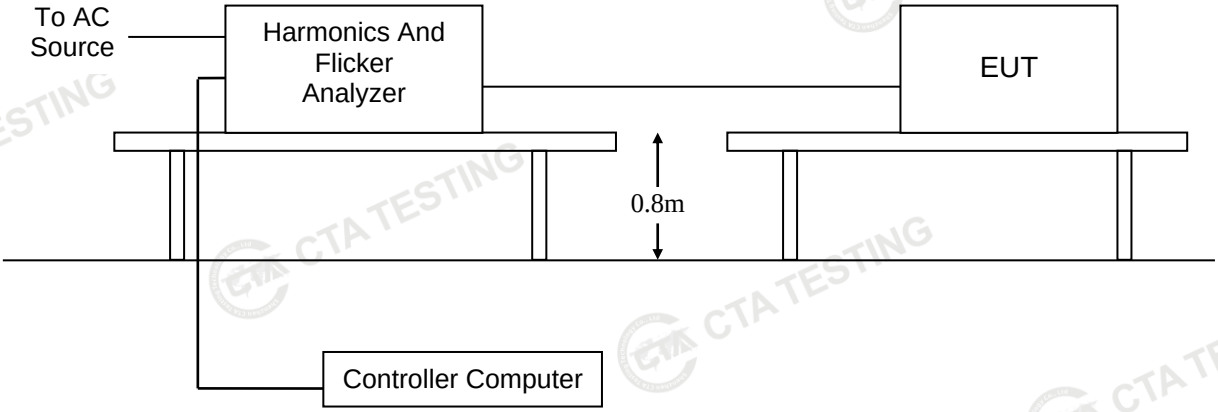
2). Factor(dB/m)=Cable loss (dB) + LISN Factor (dB)

4.1.3. Harmonic Current Emission

LIMIT

Please refer to EN 61000-3-2

TEST CONFIGURATION



TEST PROCEDURE

Please refer to EN 61000-3-2 for the measurement methods.

TEST RESULTS

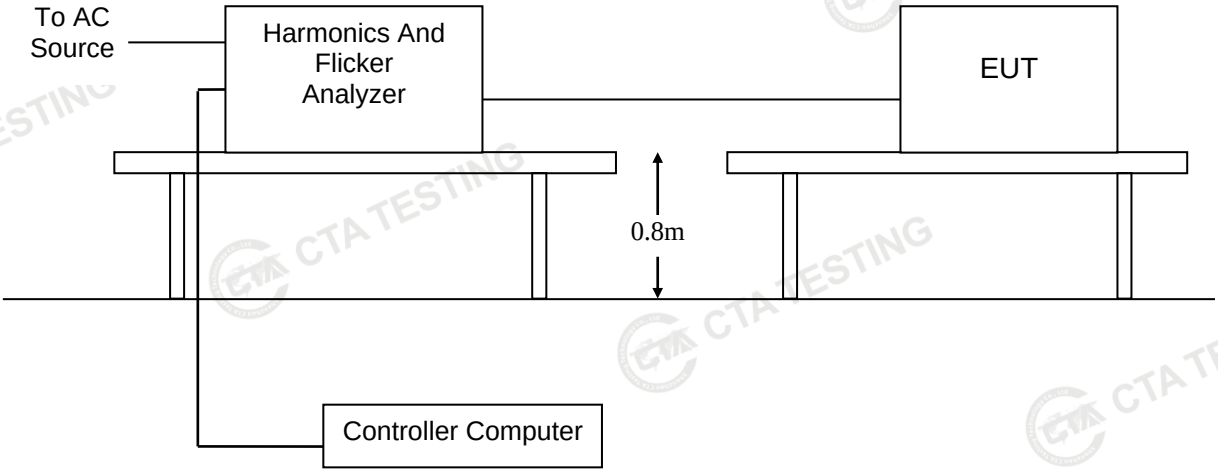
The power of this product is less than 75W, So this test item is not applicable for the EUT.

4.1.4. Voltage Fluctuation and Flicker

LIMIT

Please refer to EN 61000-3-3

TEST CONFIGURATION



TEST PROCEDURE

Please refer to EN 61000-3-3 for the measurement methods.

TEST RESULTS

The maximum input power of the EUT is less than 20W, which unlikely to produce significant voltage fluctuation. Therefore this test item is not applicable for the EUT.

See clause 6.1* *** EN 61000-3-3, clause 6.1:" ... Tests need not be made on equipment which is unlikely to produce significant voltage fluctuations or flicker. ..."**

4.2. IMMUNITY

4.2.1. Performance criteria

■ ETSI EN301489-1

General performance criteria

• performance criterion A applies for immunity tests with phenomena of a continuous nature;

• performance criterion B applies for immunity tests with phenomena of a transient nature.

•The equipment shall meet the minimum performance criteria as specified in the following.

Criteria	During test	After test
A	Operate as intended No loss of function No unintentional responses	Operate as intended No loss of function No degradation of performance No loss of stored data or user programmable functions
B	May show loss of function No unintentional responses	Operate as intended Lost function(s) shall be self-recoverable No degradation of performance No loss of stored data or user programmable functions
NOTE: Where "operate as intended" or "no loss of function" is specified, the EUT shall demonstrate correct functioning as described in clause 5.		

■ **ETSI EN301489-17**

General performance criteria

• Performance criteria A for immunity tests with phenomena of a continuous nature;

• Performance criteria B for immunity tests with phenomena of a transient nature;

• Performance criteria C for immunity tests with power interruptions exceeding a certain time.

The equipment shall meet the minimum performance criteria as specified in the following.

Criteria	During test	After test
A	Shall operate as intended. (See note). Shall be no loss of function. Shall be no unintentional transmissions.	Shall operate as intended. Shall be no degradation of performance. Shall be no loss of function. Shall be no loss of critical stored data.
B	May be loss of function.	Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no loss of critical stored data.
C	May be loss of function.	Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no loss of critical stored data.

NOTE: Operate as intended during the test allows a level of degradation in accordance with clause 6.2.2.

Performance criteria for Continuous phenomena

For equipment that supports a PER or FER, the minimum performance level shall be a PER or FER less than or equal to 10 %.

For equipment that does not support a PER or a FER, the minimum performance level shall be no loss of the wireless transmission function needed for the intended use of the equipment.

Performance criteria for Continuous phenomena

The performance criteria A shall apply.

Where the EUT is a transmitter in standby mode, unintentional transmission shall not occur during the test.

Where the EUT is a transceiver in receive mode, unintentional transmission shall not occur during the test.

Performance criteria for Transient phenomena

The performance criteria B shall apply, except for voltage dips greater than or equal to 100 ms and voltage interruptions of 5 000 ms duration, for which performance criteria C shall apply.

Where the EUT is a transmitter in standby mode, unintentional transmission shall not occur as a result of the application of the test.

Where the EUT is a transceiver in receive mode, unintentional transmission shall not occur as a result of the application of the test.

■ **ETSI EN301489-19**

General performance criteria

If the EUT is of a non specialized nature or the EUT is combined with an ancillary equipment, the test modulation, test arrangements, etc. as required in clause 4 shall apply. The EUT, for all immunity tests according to the present document, except the spot frequency test of the immunity test with radiated RF electromagnetic fields (see ETSI EN 301 489-1 [1], clause 9.2), shall be assessed for:

• the storage of messages in the memory of the EUT at the start of the test;

• unintentional responses of the EUT during the test;

• the maintenance of the EUT memory assessed at the conclusion of the test;

• the ability to receive and store messages at the conclusion of the test.

For the spot frequency test of the immunity test with radiated RF electromagnetic fields (see ETSI EN 301 489-1 [1], clause 9.2) the EUT shall be assessed by monitoring the accuracy of the call received alert signal.

Performance criteria for Continuous phenomena applied to ROMES and ROGNSS receivers (CR)

For the EUT, excluding spot frequency tests as part of the immunity test with radiated RF electromagnetic fields (see ETSI EN 301 489-1 [1], clause 9.2):

• the general performance criteria set out in clause 6.1;

• during the test no false calls shall occur;

• at the conclusion of the test comprising the series of individual exposures the EUT shall operate as intended with no loss of functions or stored data (messages), as declared by the manufacturer.

For the spot frequency test as part of the immunity test with radiated RF electromagnetic fields (see ETSI EN 301 489-1 [1], clause 9.2) the EUT shall be assessed by monitoring the accuracy of the call received alert signal

Performance criteria for Transient phenomena applied to ROMES and ROGNSS receivers (TR)

For the EUT:

• the general performance criteria set out in clause 6.1;

• during the test no false calls shall occur;

• at the conclusion of the test comprising the series of individual exposures, the EUT shall operate as intended with no loss of function and/or stored data (messages), as declared by the manufacturer.

Performance criteria for equipment which does not provide a continuous communication link

The provision of ETSI EN 301 489-1 [1], clause 6.3 shall apply with the following modifications.

For EUTs of a specialized nature and/or ancillary equipment tested on a stand alone basis the manufacturer shall define the method of test to determine the acceptable level of performance or degradation of performance during and/or after the test. Under these circumstances the manufacturer will also provide the following information:

• the primary functions of the equipment to be tested during and after EMC stress;

• the intended functions of the EUT which shall be in accordance with the documentation accompanying the equipment;

• the pass/failure criteria for the equipment;

• the method of observing a degradation of performance of the equipment.

The assessment of the performance or the degradation of performance which shall be carried out during and/or at the conclusion of the tests, shall be simple, but at the same time give adequate proof that the primary functions of the equipment are operational.

■ ETSI EN301489-52

General performance criteria

A communication link shall be established at the start of the test, and maintained during the test, clauses 4.1 and 4.2.

In the speech mode, the performance criteria shall be that the Up Link and Down Link speech output levels shall be at least 35 dB less than the recorded reference levels, when measured through an audio band pass filter of width 200 Hz, centred on 1 kHz (annex B).

NOTE: When there is a high level of background audio noise present, the filter bandwidth can be reduced down to a minimum of 40 Hz.

At the conclusion of the test, the EUT shall operate as intended with no loss of user control functions or stored data, and the communication link shall have been maintained.

In addition to confirming the above performance in traffic mode, the test shall be performed in idle mode, and the transmitter shall not unintentionally operate.

UTRA

In the data transfer mode, the performance criteria can be one of the following:
- if the BER (as referred in ETSI TS 134 109 [4]) is used, it shall not exceed 0,001 during the test sequence;
- if the BLER (as referred in ETSI TS 134 109 [4]) is used, it shall not exceed 0,01 during the test sequence.

The BLER calculation shall be based on evaluating the CRC on each transport block.

E-UTRA

In the data transfer mode, the performance criteria shall be that the throughput shall be ≥ 95 % of the maximum throughput of the reference measurement channel as specified in annex C in ETSI TS 136 101 [9] with parameters specified in tables 7.3.1-1 and 7.3.1-2 in ETSI TS 136 101 [9] during the test sequence.

Performance criteria for Transient phenomena

A communications link shall be established at the start of the test, clauses 4.1 and 4.2.

At the conclusion of each exposure the EUT shall operate with no user noticeable loss of the communication link.

At the conclusion of the total test comprising the series of individual exposures, the EUT shall operate as intended with no loss of user control functions or stored data, as declared by the manufacturer, and the communication link shall have been maintained.

In addition to confirming the above performance in traffic mode, the test shall also be performed in idle mode, and the transmitter shall not unintentionally operate.

■ Performance Criterion of EN55035

Criterion A: The equipment shall continue to operate as intended without operator intervention. No degradation of performance of loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

Criterion B: After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended.

Criterion C: Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions.

4.2.2. Monitoring EUT in Immunity Test

4.2.2.1 Monitoring for Continuous Phenomena Applied to the EUT

■ **GSM Mode**

At the start of the test, establish a wireless link between the EUT and CMW500;

During the test, observe whether the communication link is maintained, and:

For GSM voice service, use an audio analyzer to measure uplink and downlind speech output level to see whether audio breakthroughs are at least 35dB less than reference values during audio calibration.

futhremore, RXQUAL is measured and should be less than 3.

After the test, check the communication link and whether the EUT operate as intended with no loss of user control functions or stored data.

In addition, when EUT working in Idle mode, monitor whether the transmitter unintentionally operates.

■ **WCDMA Mode**

At the start of the test, establish a wireless link between the EUT and CMW500;

During the test, observe whether the communication link is maintained, and:

For WCDMA voice service, use an audio analyzer to measure uplink and downlind speech output level to see whether audio breakthroughs are at least 35dB less than reference values during audio calibration.

futhremore, RXQUAL is measured and should be less than 3.

For WCDMA data service, the BLER is monitored and should not exceed 0.01 during the test sequence.

After the test, check the communication link and whether the EUT operate as intended with no loss of user control functions or stored data.

In addition, when EUT working in Idle mode, monitor whether the transmitter unintentionally operates.

- **WIFI Mode**

At the start of the test, establish a wireless link between the EUT and CMW500(integrate WIFI protocol Analyzer);

During the test, observe whether the EUT operate as intended, no loss of function and no unintentional transmissions. Monitoring PER and shall exeed 10%

After the test, Check the function and critical stored data of the EUT with no degration.

In addition, when EUT working in Idle /Receiver mode, monitor whether the transmitter unintentionally operates.

- **BT Mode**

At the start of the test, establish a wireless link between the EUT and CMW500(integrate BT protocol Analyzer);

During the test, observe whether the EUT operate as intended, no loss of function and no unintentional transmissions. Monitoring PER and shall exeed 10%

After the test, Check the function and critical stored data of the EUT with no degration.

In addition, when EUT working in Idle /Receiver mode, monitor whether the transmitter unintentionally operates.

- **other Mode**

During and after the test, observe the Screen status by eyes or monitor to see whether there is degration of performance

4.2.2.2 Monitoring for Transient Phenomena Applied to the EUT

- **GSM Mode**

At the start of the test, establish a wireless link between the EUT and CMW500;

After the test, check the communication link and whether the EUT operate as intended with no loss of user control functions or stored data.

In addition, when EUT working in Idle mode, monitor whether the transmitter unintentionally operates.

- **WCDMA Mode**

At the start of the test, establish a wireless link between the EUT and CMW500;

After the test, check the communication link and whether the EUT operate as intended with no loss of user control functions or stored data.

In addition, when EUT working in Idle mode, monitor whether the transmitter unintentionally operates.

- **WIFI Mode**

At the start of the test, establish a wireless link between the EUT and CMW500(integrate WIFI protocol Analyzer);

After the test, Check the function and critical stored data of the EUT with no degration.

In addition, when EUT working in Idle /Receiver mode, monitor whether the transmitter unintentionally operates.

- **BT Mode**

At the start of the test, establish a wireless link between the EUT and CMW500(integrate BT protocol Analyzer);

After the test, Check the function and critical stored data of the EUT with no degration.

In addition, when EUT working in Idle /Receiver mode, monitor whether the transmitter unintentionally operates.

- **other Mode**

After the test, observe the Screen status by eyes or monitor to see whether there is degration of performance

4.2.3. Electrostatic Discharge

PERFORMANCE CRITERION

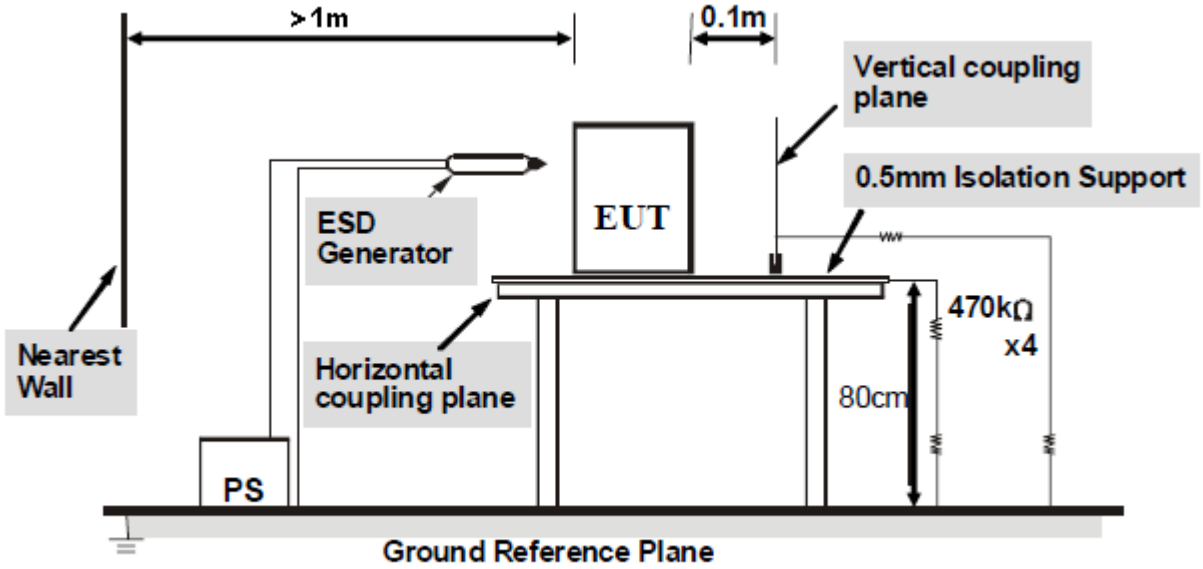
Criteria B

LIMIT

SEVERITY LEVELS OF ELECTROSTATIC DISCHARGE

Test level: Contact Discharge at ±2KV, ±4KV Air Discharge at ±2KV, ±4KV, ±8KV

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.3.2 , EN 55035 and EN 61000-4-2 for the measurement methods.

Contact Discharge:

The ESD generator is held perpendicular to the surface to which the discharge is applied and the tip of the discharge electrode touch the surface of EUT. Then turn the discharge switch. The generator is then re-triggered for a new single discharge and repeated at least 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

Air Discharge:

Air discharge is used where contact discharge can't be applied. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated at least 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

Indirect discharge for horizontal coupling plane:

At least 10 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT.

Indirect discharge for vertical coupling plane:

At least 10 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

TEST MODE

Please reference to the section 2.3

TEST RESULTS

Direct discharge				
Type of discharge	Discharge voltage (KV)	Observations Performance	Criteria Level	Result
Contact discharge	±2	No degradation in performance of the EUT was observed (A)	B	Pass
	±4	A	B	
Air discharge	±2	A	B	
	±4	A	B	
	±8	A	B	
Indirect discharge				
Type of discharge	Discharge voltage (KV)	Observations Performance	Criteria Level	Result
HCP (6 sides)	±2	A	B	Pass
	±4	A	B	
VCP (4 sides)	±2	A	B	
	±4	A	B	

Remark: The ancillary equipment's specification for an acceptable level of performance or degradation of performance during and/or after the ESD tests.

4.2.4. RF Electromagnetic Field

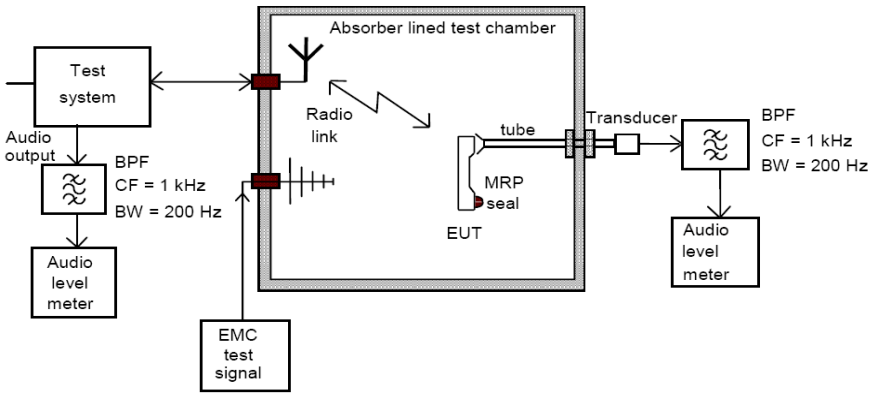
PERFORMANCE CRITERION

Criteria A

TEST LEVEL

3V/m (80%, 1kHz Amplitude Modulation)

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.2.2 and EN 61000-4-3 for the measurement methods.

TEST MODE

Please reference to the section 2.3

TEST RESULTS

Frequency	Level	Modulation	Antenna Polarization	EUT Face	Observations (Performance Criterion)	Result
80MHz-6GHz	3 V/m	1 kHz, 80 % Amp. Mod, 1 % increment, dwell time=3seconds	V	Front	A	Pass
			H		A	Pass
			V	Rear	A	Pass
			H		A	Pass
			V	Left	A	Pass
			H		A	Pass
			V	Right	A	Pass
			H		A	Pass
			V	Top	A	Pass
			H		A	Pass
			V	Bottom	A	Pass
			H		A	Pass

Remark: A: No degradation in performance of the EUT was observed.

Note：During and after test, the EUT's(BT/WIFI) PER less than 10%, there is no any degradation of performance.

- **Traffic mode**

GSM900					
Frequency	Antenna Polarity	Mode	Speech output Reference levels/RXQUAL Test Result	Speech output Reference levels/RXQUAL Limit	Result
80MHz-6GHz	H/V	Up Link /speech output	-70.35	-35	PASS
		Down Link/ speech output	-68.49	-35	PASS
		Down Link/ RXQUAL	0.0101	3	PASS

GSM1800					
Frequency	Antenna Polarity	Mode	Speech output Reference levels/RXQUAL Test Result	Speech output Reference levels/RXQUAL Limit	Result
80MHz-6GHz	H/V	Up Link /speech output	-70.89	-35	PASS
		Down Link/ speech output	-68.41	-35	PASS
		Down Link/ RXQUAL	0.0103	3	PASS

WCDMA Band I					
Frequency	Antenna Polarity	Mode	Speech output Reference levels/RXQUAL Test Result	Speech output Reference levels/RXQUAL Limit	Result
80MHz-6GHz	H/V	Up Link /speech output	-68.32	-35	PASS
		Down Link/ speech output	-70.49	-35	PASS
		Down Link/ RXQUAL	0.0098	3	PASS

WCDMA Band VIII					
Frequency	Antenna Polarity	Mode	Speech output Reference levels/RXQUAL Test Result	Speech output Reference levels/RXQUAL Limit	Result
80MHz-6GHz	H/V	Up Link /speech output	-69.73	-35	PASS
		Down Link/ speech output	-70.87	-35	PASS
		Down Link/ RXQUAL	0.0092	3	PASS

Remark: A: No degradation in performance of the EUT was observed

4.2.5. Surges

PERFORMANCE CRITERION

Criteria B

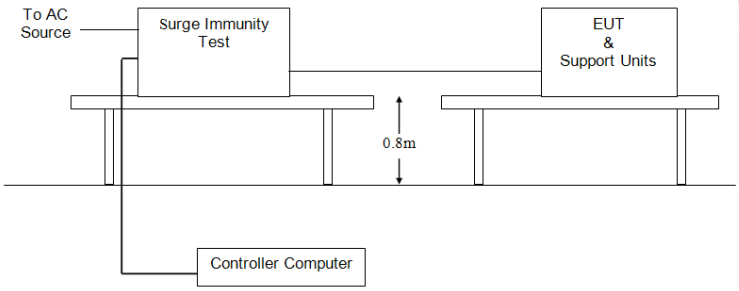
TEST LEVEL

1kV Line to Line: Differential mode

2kV Line to Ground: Common mode

(Voltage Waveform: 1.2/50 us; Current Waveform: 8/20 us)

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.8.2 and EN 61000-4-5 for the measurement methods.

TEST MODE

Please reference to the section 2.3

TEST RESULTS

Location	Level(kV)	Pulse No	Surge Interval	Phase(deg)	Observations (Performance Criterion)	Result
L-N	± 1	5	60s	0°	A	Pass
				90°	A	Pass
				180°	A	Pass
				270°	A	Pass

Remark: A: No degradation in performance of the EUT was observed.

4.2.6. RF- Common Mode 0.15MHz to 80MHz

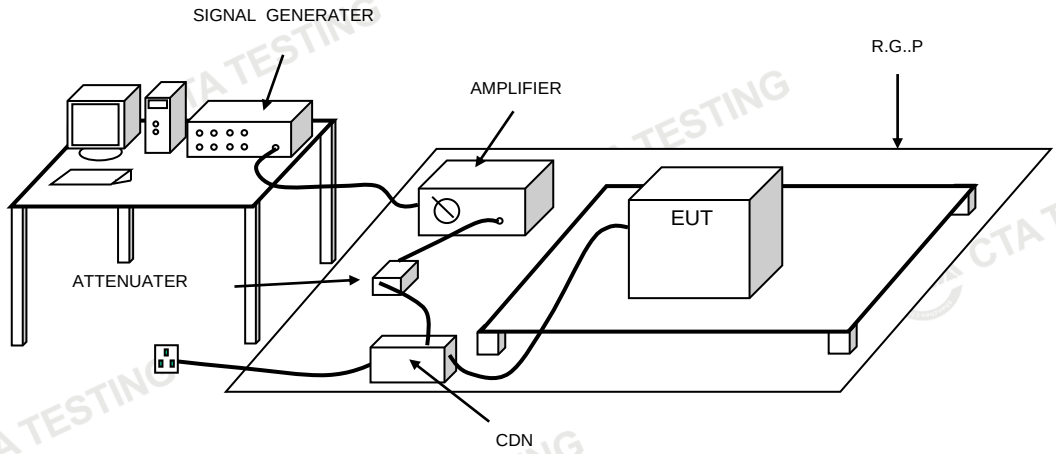
PERFORMANCE CRITERION

Criteria A

TEST LEVEL

3Vrms on AC main port (80%, 1kHz Amplitude Modulation)

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.5.2 and EN 61000-4-6 for the measurement methods.

TEST MODE

Please reference to the section 2.3

TEST RESULTS

Frequency	Injected Position	Coupling Direct/Clamp	Level	Modulation	Observations (Performance Criterion)	Result
150kHz to 80MHz	AC Mains	Direct	3Vrms	1 kHz, 80 % Amp. Mod, 1 % increment, dwell time=3seconds	A	Pass

Remark: A: No degradation in performance of the EUT was observed

Note：During and after test, the EUT's(BT/WIFI)PER less than 10%, there is no any degradation of performance.

■ **Traffic mode:**

GSM900					
Frequency	Antenna Polarity	Mode	Speech output Reference levels/RXQUAL Test Result	Speech output Reference levels/RXQUAL Limit	Result
150KHz-80MHz	H/V	Up Link /speech output	-70.45	-35	PASS
		Down Link/ speech output	-69.87	-35	PASS
		Down Link/ RXQUAL	0.0101	3	PASS

GSM1800					
Frequency	Antenna Polarity	Mode	Speech output Reference levels/RXQUAL Test Result	Speech output Reference levels/RXQUAL Limit	Result
150KHz-80MHz	H/V	Up Link /speech output	-72.59	-35	PASS
		Down Link/ speech output	-70.71	-35	PASS
		Down Link/ RXQUAL	0.0103	3	PASS

WCDMA Band I					
Frequency	Antenna Polarity	Mode	Speech output Reference levels/RXQUAL Test Result	Speech output Reference levels/RXQUAL Limit	Result
150KHz-80MHz	H/V	Up Link /speech output	-71.39	-35	PASS
		Down Link/ speech output	-70.82	-35	PASS
		Down Link/ RXQUAL	0.0109	3	PASS

WCDMA Band VIII					
Frequency	Antenna Polarity	Mode	Speech output Reference levels/RXQUAL Test Result	Speech output Reference levels/RXQUAL Limit	Result
150KHz-80MHz	H/V	Up Link /speech output	-70.89	-35	PASS
		Down Link/ speech output	-71.93	-35	PASS
		Down Link/ RXQUAL	0.0102	3	PASS

Remark: A: No degradation in performance of the EUT was observed

4.2.7. Fast Transients Common Mode

PERFORMANCE CRITERION

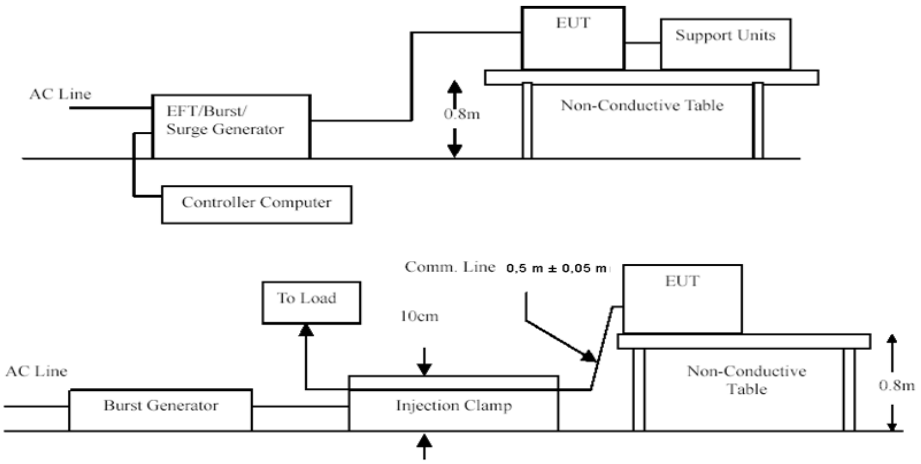
Criteria B

TEST LEVEL

1KV for AC main port

(Impulse Frequency: 5 kHz; Tr/Th: 5/50ns; Burst Duration: 15ms; Burst Period: 3Hz)

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.4.2 ,EN55035 and EN 61000-4-4 for the measurement methods.

TEST MODE

Please reference to the section 2.3

TEST RESULTS

Lead under Test	Level (±kV)	Coupling Direct/Clamp	Observations (Performance Criterion)	Result
L	±1	Direct	A	Pass
N	±1	Direct	A	Pass
L-N	±1	Direct	A	Pass

Remark: A: No degradation in performance of the EUT was observed

4.2.8. Voltage Dips and Interruptions

PERFORMANCE CRITERION

>95% VD, 0.5 period----Performance criterion: B

>95% VD, 1.0 period----Performance criterion: B

30% VD, 25 period----Performance criterion: C

>95% VI, 250 period----Performance criterion: C

TEST LEVEL

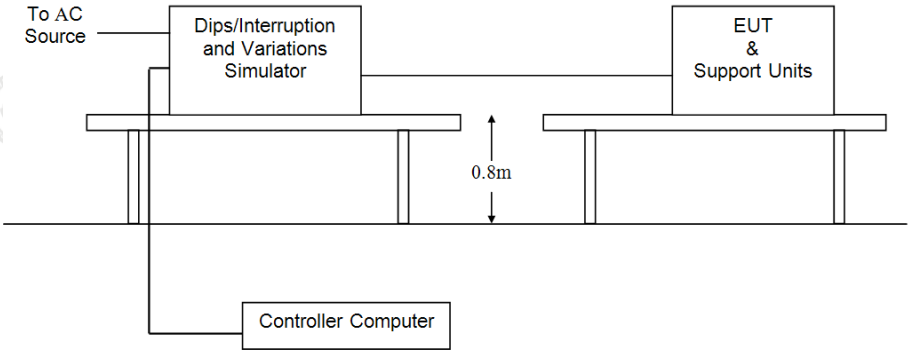
0% of VT (Supply Voltage) for 0.5 period

0% of VT (Supply Voltage) for 1.0 period

70% of VT (Supply Voltage) for 25 period

0% of VT (Supply Voltage) for 250 period

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.7.2 and EN 61000-4-11 for the measurement methods.

TEST MODE

Please reference to the section 2.3

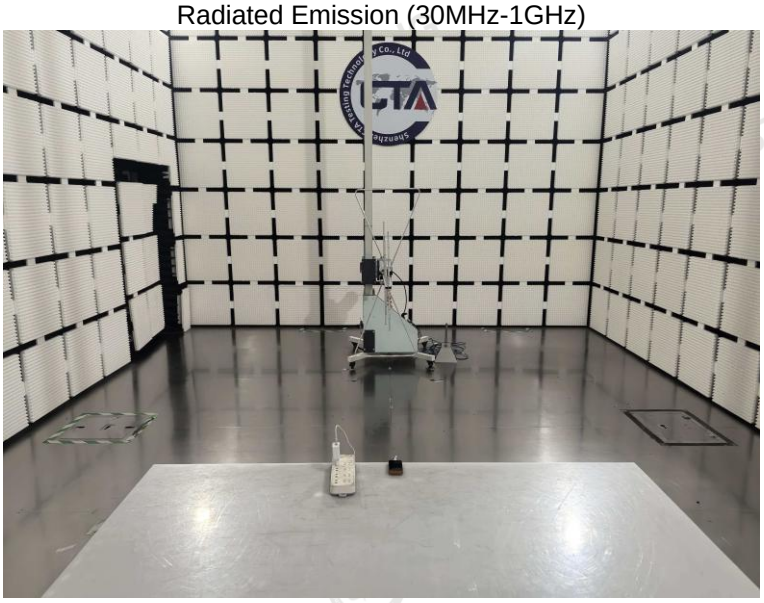
TEST RESULTS

Test Level % UT	Duration (Periods)	Phase angle	No. of drop out	Time between dropout	Observations (Performance Criterion)	Result
0	0.5	0°, 90°, 180°, 270°	3	10s	A	Pass
0	1.0	0°, 90°, 180°, 270°	3	10s	A	Pass
70	25	0°, 90°, 180°, 270°	3	10s	A	Pass
0	250	0°, 90°, 180°, 270°	3	10s	B	Pass

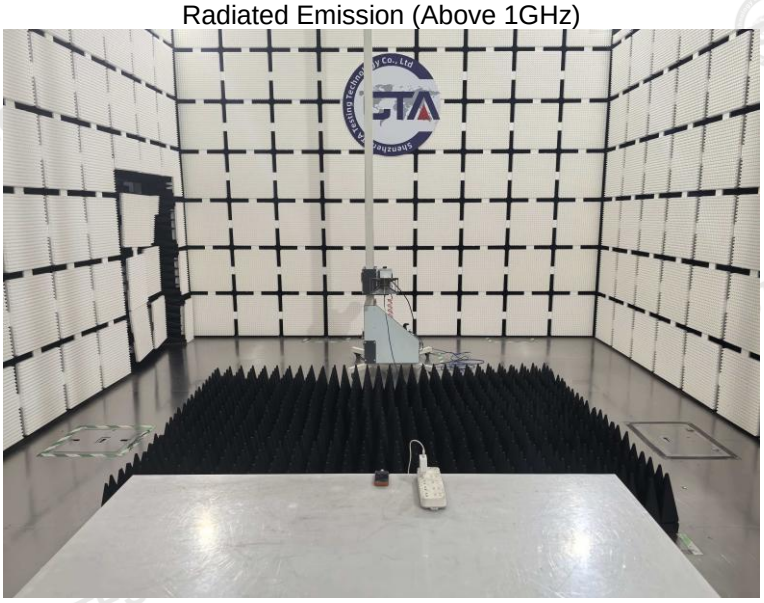
Remark:
A: No degradation in performance of the EUT was observed.
B: During the test, the power shut down, after the experiment, the function can automatically return to normal

5. Test Set-up Photos of the EUT

Radiated Emission (30MHz-1GHz)



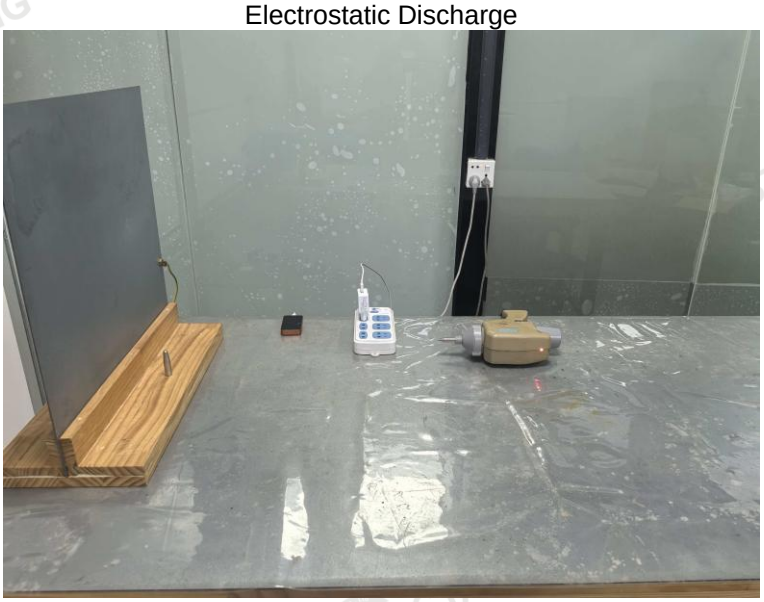
Radiated Emission (Above 1GHz)



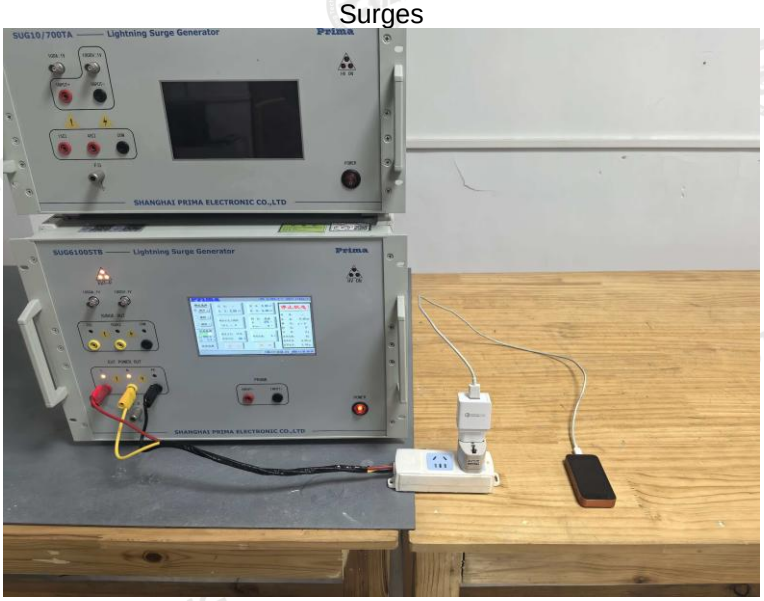
Conducted Emission



Electrostatic Discharge



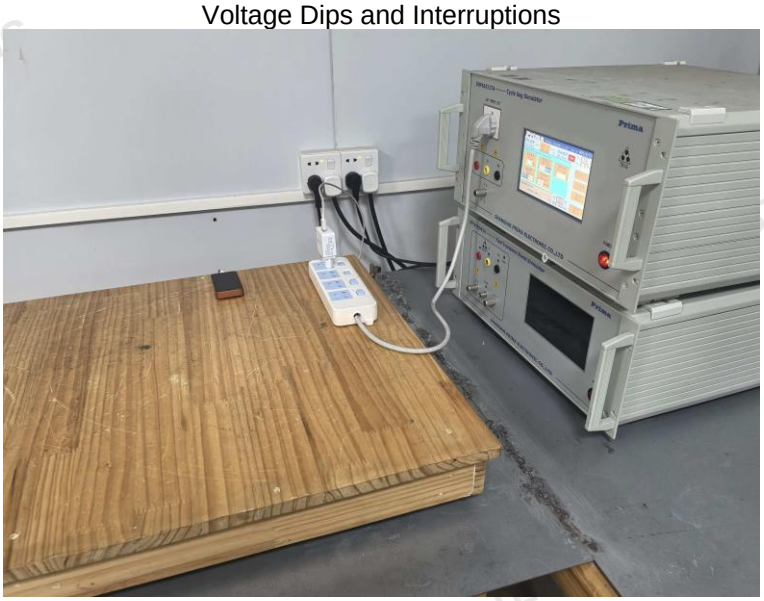
Surges



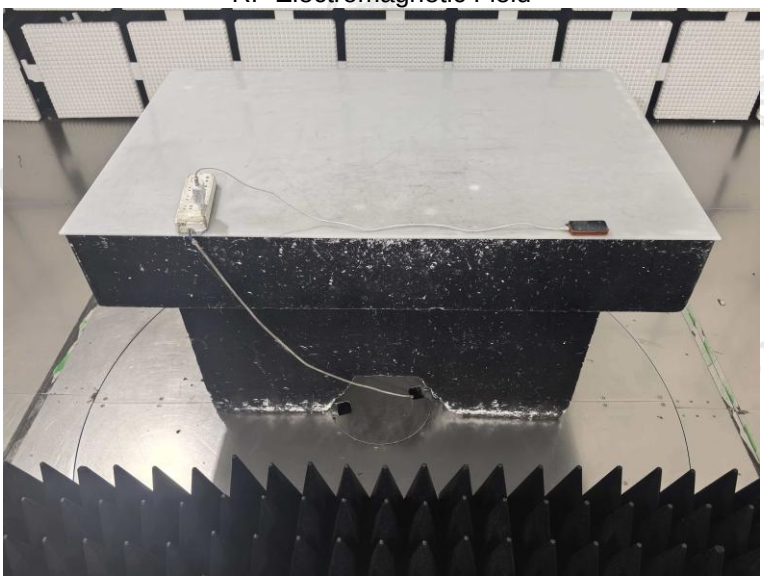
Fast Transients



Voltage Dips and Interruptions

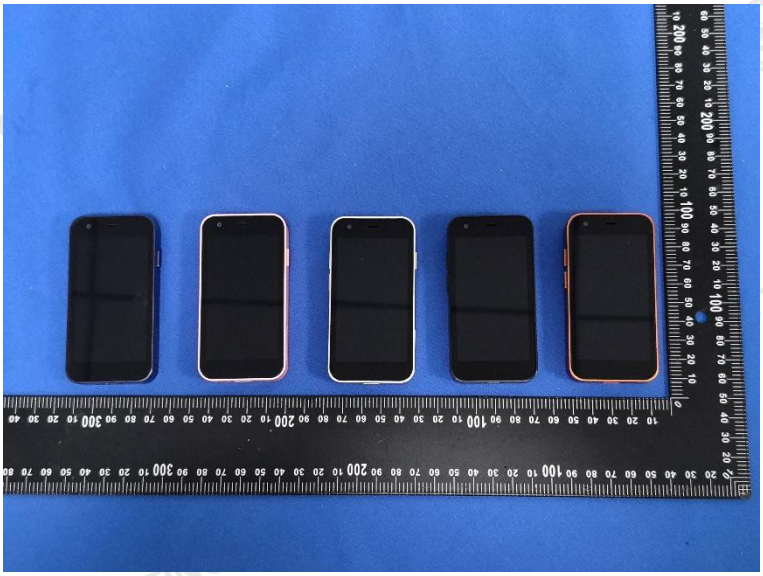


RF Electromagnetic Field

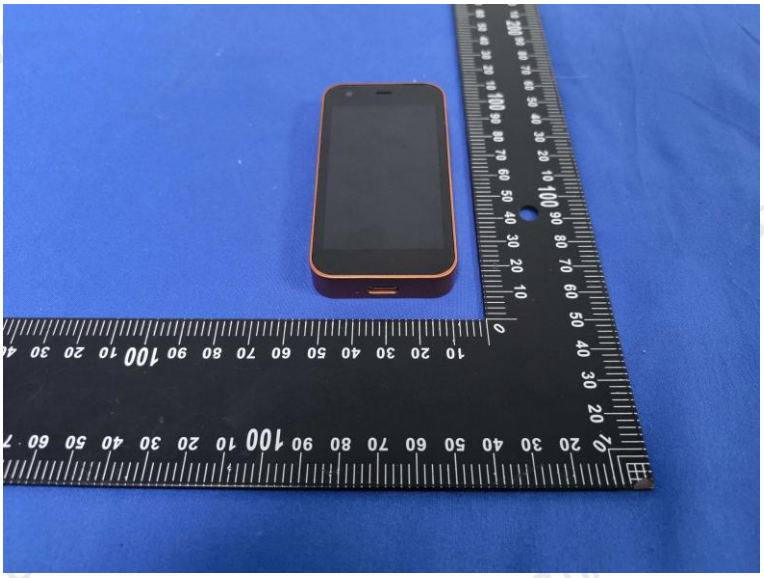


6. External and Internal Photos of the EUT



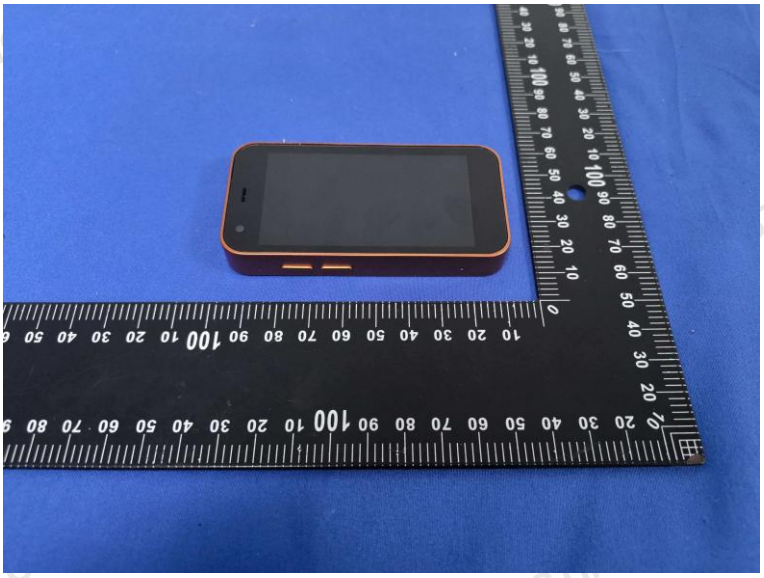






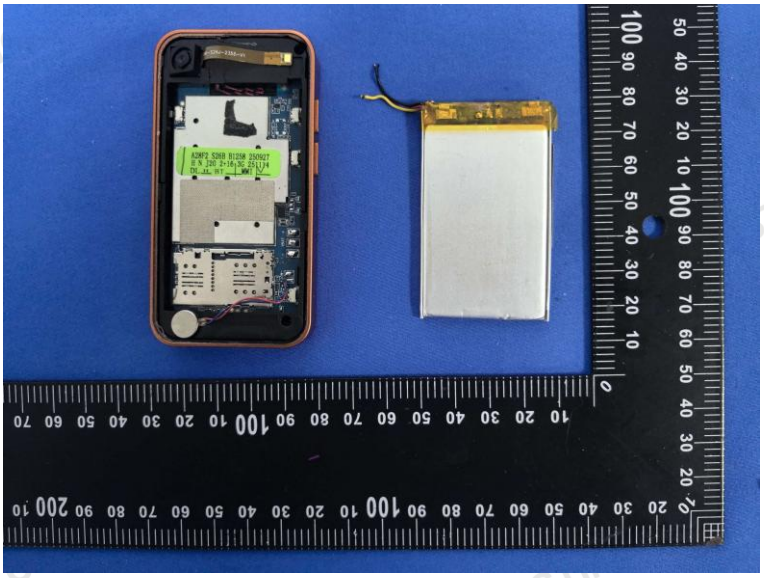








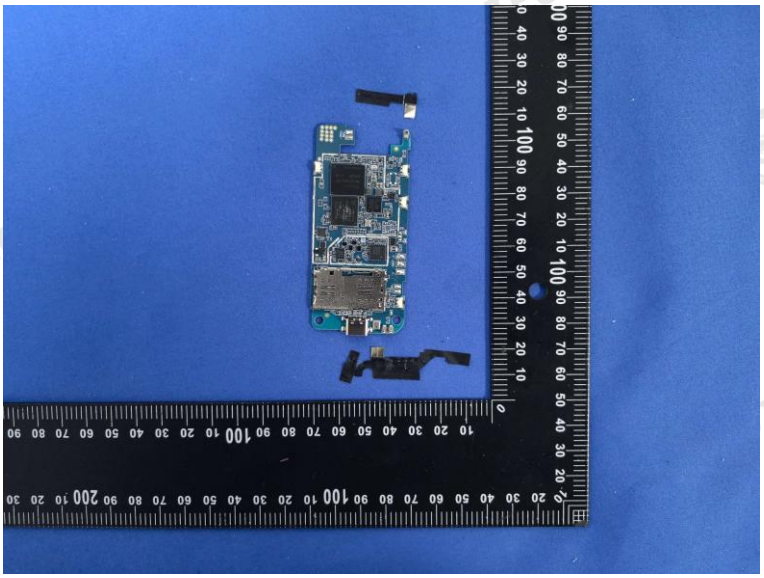


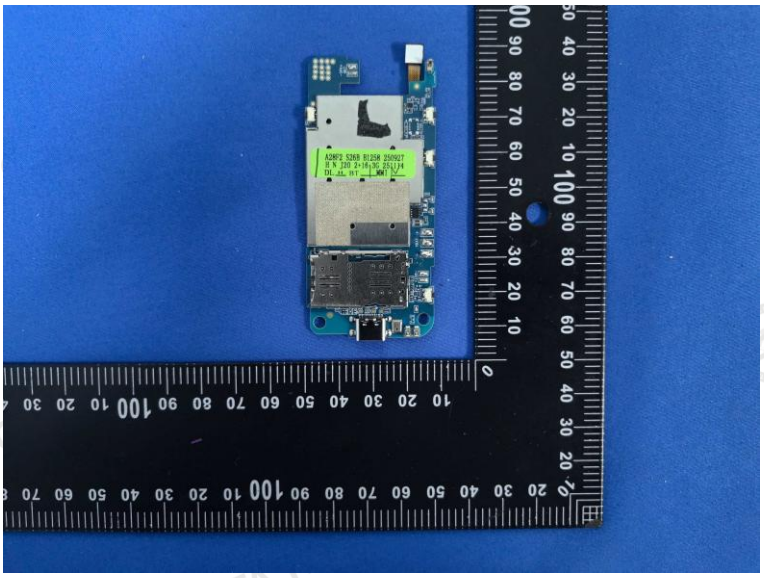


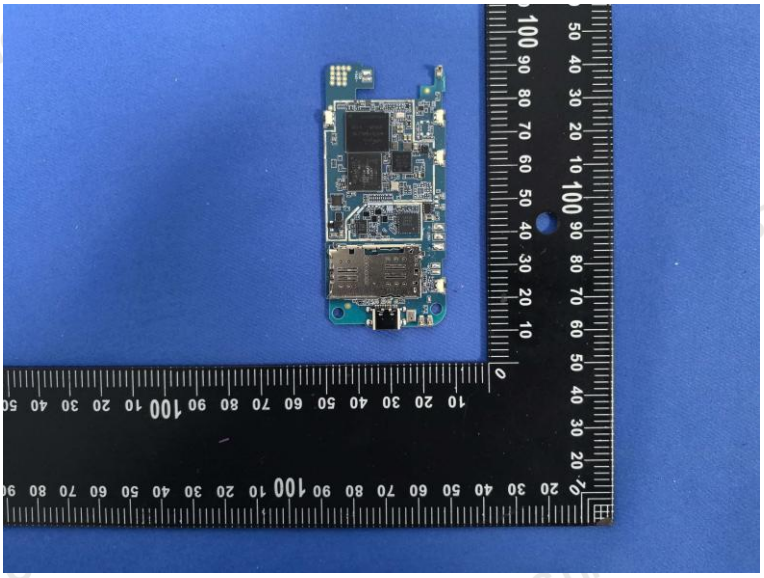

- CXD 303762 3.8V
+ 900mAh 3.42Wh 2510

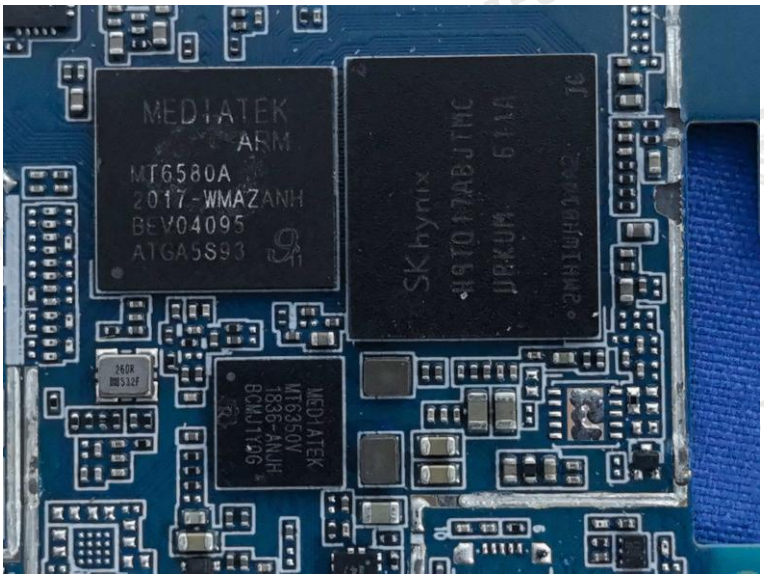


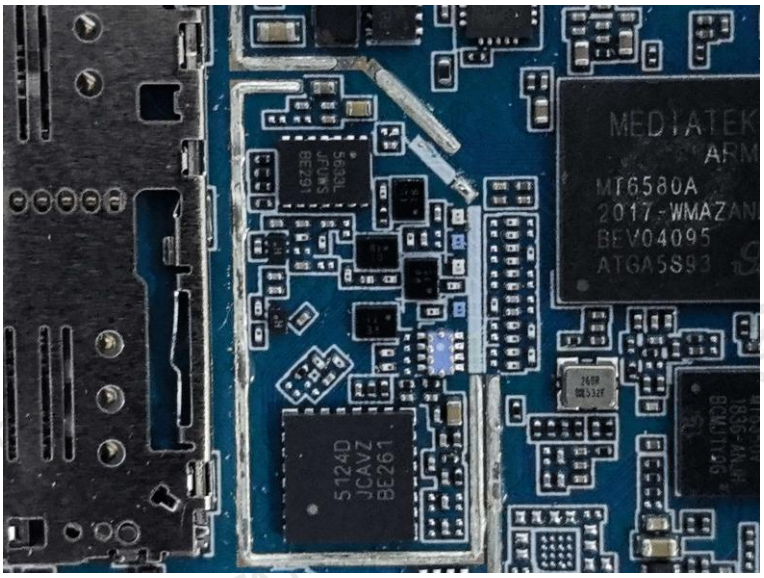


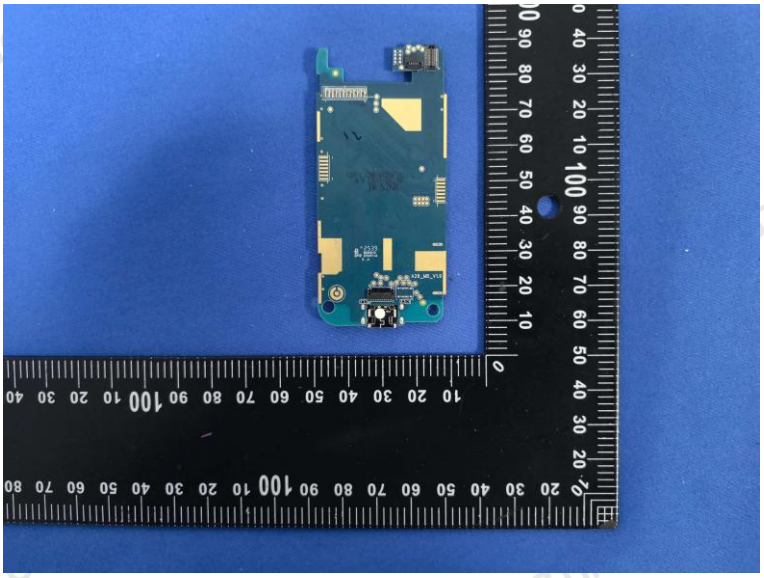







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MT6580A
5124D
JCAVZ
BE261



.....End of Report.....