

EMC TEST REPORT

ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-3 V2.1.1 (2019-03)

ETSI EN 301 489-17 V3.2.4 (2020-09)

ETSI EN 301 489-19 V2.1.1 (2019-04)

ETSI EN 301 489-52 V1.2.1 (2021-11)

EN 55032:2015+A11:2020

EN 55035:2017+A11:2020

EN IEC 61000-3-2:2019

EN61000-3-3:2013+A1:2019

Product: Mobile Phone

Trade Mark: Blackview

Model Name: A95

Family Model: N/A

Report No.: STR211122001011E

Prepared for

DOKE COMMUNICATION (HK) LIMITED

RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK, CHINA

Prepared by

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Report No.: STR211122001011E

TEST RESULT CERTIFICATION

Applicant's Name.....: DOKE COMMUNICATION (HK) LIMITED

Address RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD

· WANCHAI HK, CHINA

Manufacturer's Name: Shenzhen DOKE Electronic Co.,Ltd.

Road, Guangming District, Shenzhen, China.

Product description

Product name: Mobile Phone

Trade Mark Blackview

Model Name: A95

Family Model N/A

ETSI EN 301 489-1 V2.2.3 (2019-11)

ETSI EN 301 489-3 V2.1.1 (2019-03)

ETSI EN 301 489-17 V3.2.4 (2020-09)

Standards: ETSI EN 301 489-19 V2.1.1 (2019-04)

ETSI EN 301 489-52 V1.2.1 (2021-11)

EN 55032:2015+A11:2020; EN 55035:2017+A11:2020

EN IEC 61000-3-2:2019; EN61000-3-3:2013+A1:2019

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the of article 3.1(b) of the Directive 2014/53/EU requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests...... Nov 22, 2021 ~ Dec 28, 2021

Date of Issue...... Dec 28, 2021

Test Result Pass

Testing Engineer : Allen Huand

(Allen Huang)

Authorized Signatory:

(Alex Li)





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1. TEST SUMMARY

Test procedures according to the technical standards:

ETSI EN 301 489-1 V2.2.3 (2019-11)

ETSI EN 301 489-3 V2.1.1 (2019-03)

ETSI EN 301 489-17 V3.2.4 (2020-09)

ETSI EN 301 489-19 V2.1.1 (2019-04)

ETSI EN 301 489-52 V1.2.1 (2021-11)

EN 55032:2015+A11:2020; EN 55035:2017+A11:2020

EN IEC 61000-3-2:2019; EN61000-3-3:2013+A1:2019

EMC Emission

Standard	Test Item	Limit	Judgment	Remark
2	Conducted Emission On AC And Telecom Port 150kHz to 30MHz	Class B	PASS	200
the part	Disturbance Voltage at The Antenna Terminals (30MHz To 2150MHz)	<u> </u>	N/A	1
EN 55032:2015+A11:20 20	Wanted signal and disturbance voltage at the RF output terminals (30MHz To 2150MHz)		N/A	
# \$ P	Radiated Emission 30MHz to 1000MHz	Class B	PASS	4
A. A.	Radiated Emission 1GHz to 6GHz	Class B	PASS	
EN IEC 61000-3-2:2019	Harmonic Current Emission	Class A	N/A	NOTE (1)
EN61000-3-3:2013+ A1:2019	Voltage Fluctuations & Flicker		PASS	^

EMC Immunity

Section EN 55035:2017+A11:2020	Test Item	Performance Criteria	Judgment	Remark
EN 61000-4-2:2009	Electrostatic Discharge	A B	PASS	d
EN 61000-4-3:2006+ A1:2008+A2:2010	RF electromagnetic field	А	PASS	
EN 61000-4-4:2012	Fast transients	В	PASS	*
EN 61000-4-5:2014+ A1:2017	Surges	В	PASS	7.00
EN 61000-4-6:2014	Continuous radio frequency disturbances or Injected Current	A	PASS	# 3
EN 61000-4-8:2010	Power Frequency Magnetic Field	Α	N/A	NOTE (3)
EN 61000-4-11:2004	Volt. Interruptions Volt. Dips	B / C / C NOTE (2)	PASS	LA



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NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) Voltage dip: 100% reduction Performance Criteria **B** Voltage dip: 30% reduction Performance Criteria **C**
 - Voltage Interruption: 100% Interruption Performance Criteria C
- (3) Applicable only to equipment containing devices intrinsically susceptible to magnetic fields, such as CRT monitors, Hall effect elements, electro-dynamic microphones, magnetic field sensors or audio frequency transformers.
- (4) For client's request and manual description, the test will not be executed.



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1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd.

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China

CNAS-Lab. : The Certificate Registration Number is L5516

IC-Registration : The Certificate Registration Number is CN0074

FCC- Accredited ... Test Firm Registration Number: 463705

Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for

the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 %.

1		4	
Test Item	Measurement Frequency Range		U(dB)
AC Mains Conducted Emission	0.009kHz ~ 0.15MHz		2.66
AC Mains Conducted Emission	0.15MH ~ 30MHz	2	2.80
Telecom Conducted Emission (Cat 3)	0.15MHz ~ 30MHz		2.40
Telecom Conducted Emission (Cat 5)	0.15MHz ~ 30MHz	2	2.58
Radiated Emission	30MHz ~ 1000MHz	2	2.64
Radiated Emission	1000MHz ~ 6000MHz	2	2.40
Radiated Emission	6000MHz ~ 18000MHz	2	2.52



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Revision History

Report No.	Version	Description	Issued Date
STR211122001011E	Rev.01	Initial issue of report	Dec 28, 2021
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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone
Trade Mark	Blackview
Model Name	A95
Family Model	N/A
Model Difference	N/A
Frequency Bands:	BT(1Mbps)/BLE: GFSK



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Υ.	15 14	
10 M	Modulation Mode:	BT(1Mbps)/BLE: GFSK
	SIM Card:	SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The SIM 1 is chosen for test.
_	Power Rating	DC 3.85V from battery or DC 5V from Adapter
	Adapter	Model: HJ-FC001K7-EU Input: 100-240V~50/60Hz 0.6A Output: 5V3.0A 15.0W 9V2.0A 18.0W 12V1.5A 18.0W
	Battery	Battery 1: Model: Li426483PUJLY DC 3.85V, 4280mAh,16.48Wh Battery 2: Model: LiSP426483SHHTT DC 3.85V, 4380mAh,16.863Wh
	Connecting I/O Port(s)	Please refer to the User's Manual
1000	Antenna:	BT/WIFI/GPS: PIFA Antenna; GSM/WCDMA/LTE: PIFA Antenna; FM: Use earphone as Antenna;
	Hardware Version	TE855-A2-PCB-V1.0
	Software Version	A95_EEA_TE855_V1.0





2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

	/ //7
Pretest Mode	Description
Mode 1	REC A
Mode 2	Data transmission
Mode 3	FM(87.6MHz / 98MHz / 107.9MHz)
Mode 4	TF Playing
Mode 5	BT Link mode
Mode 6	Wi-Fi 2.4G/ 5.2G/5.8G
Mode 7	GSM / GPRS / EGPRS 900 / 1800
Mode 8	WCDMA / HSDPA / HSUPA B1 / B8
Mode 9	LTE Band 1 / 3 / 7 / 8 / 20 / 40
Mode 10 GPS Receiver	
	1.3

For Conducted Test				
Final Test Mode Description				
Mode 1	REC S			





For Radiated Test

Final Test Mode Description

Mode 1 REC

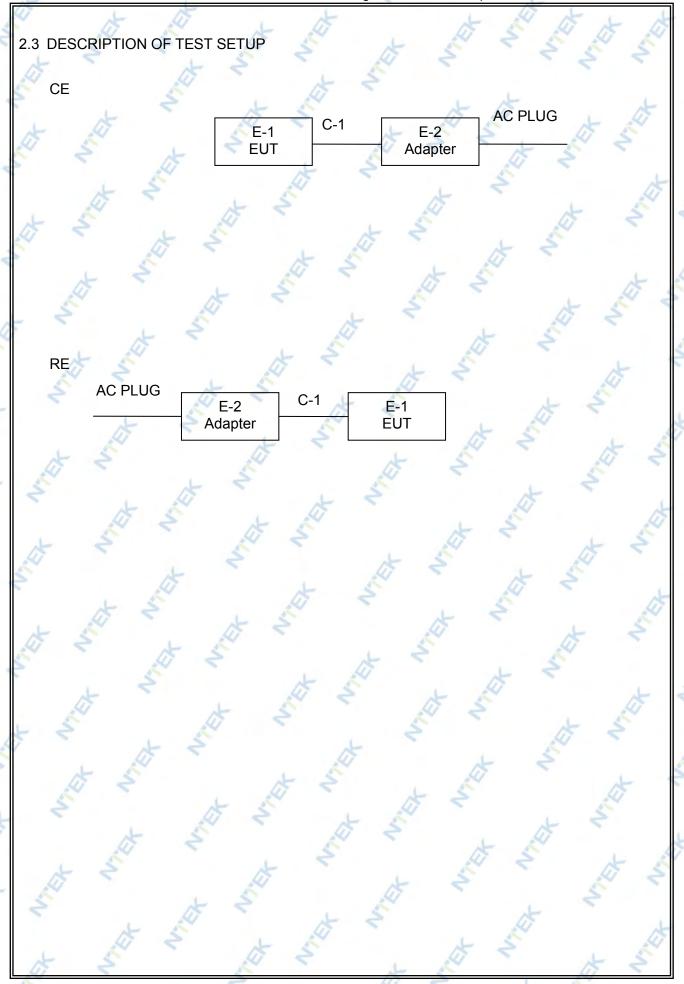
	For EMS Test	
Pretest Mode Description		
Mode 1	REC	
Mode 2	Data transmission	
Mode 3	FM(87.6MHz / 98MHz / 107.9MHz)	4
Mode 4	TF Playing	2
Mode 5	BT Link mode	
Mode 6	Wi-Fi 2.4G/ 5.2G/5.8G	4
Mode 7	GSM / GPRS / EGPRS 900 / 1800	M
Mode 8	WCDMA / HSDPA / HSUPA B1 / B8	~
Mode 9	LTE Band 1 / 3 / 7 / 8 / 20 / 40	4
Mode 10	GPS Receiver	14

NOTE: The test modes were carried out for all operation modes. The final test mode of the EUT was the worst test mode for EMI, and its test data was showed.



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2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

			296.9	No. of the second
Item	Equipment	Model/Type No.	Series No.	Note
E-1	Mobile Phone	A95	N/A	EUT
E-2	Adapter	HJ-FC001K7-EU	N/A	Peripherals
E-3	Earphone	N/A	N/A	Peripherals
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	1		~	4
1	5 5	4	. *	S.

	//		1 1		
Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	YES	NO	1.0m	
C-2	Earphone Cable	NO	NO	N/A	4
14		3	M		5
5	1 10	A.		45	
	4 5	4		1 5	R
大	4	10 3		29	4 3
~		-	47	, L	14
	P	4	5	A	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.





2.5 MEASUREMENT INSTRUMENTS LIST

2.5.1 CONDUCTED EMISSION

_		CONDOCIED	LIVILOCIOI		me, district			
S	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
)	4	Test Cable	N/A	C01	N/A	Mar. 29, 2021	Mar. 28, 2024	3 years
	2	Test Cable	N/A	C02	N/A	Mar. 29, 2021	Mar. 28, 2024	3 years
	3	Test Cable	N/A	C03	N/A	Mar. 29, 2021	Mar. 28, 2024	3 years
	4	Pulse Limiter	SCHWARZBE CK	VTSD 9561F	9716	Apr. 27, 2021	Apr. 26, 2022	1 year
5	5	50Ω Switch	ANRITSU CORP	MP59B	620098370 4	Mar. 29, 2021	Mar. 28, 2024	3 year
	6	EMI Test Receiver	R&S	ESCI	101160	Apr .27, 2021	Apr .26, 2022	1 year
-	7	Unversal radio communication tester	R&S	CMU200	1100.008.0	Apr .27, 2021	Apr .26, 2022	1 year
	8	Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	Apr .27, 2021	Apr .26, 2022	1 year
	9	LISN	SCHWARZBE CK	NNLK 8129	8129245	Apr .27, 2021	Apr .26, 2022	1 year
	10	LISN	R&S	ENV216	101313	Apr .27, 2021	Apr .26, 2022	1 year

2.5.2 RADIATED TEST SITE

	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
4	1	Antenna Mast	EM 🔷	SC100_1	N/A	N/A	N/A	N/A
,	2	Turn Table	✓ EM	SC100	060531	N/A	N/A	N/A
	3	EMI Test Receiver	R&S	ESCI-7	101318	Apr .27, 2021	Apr .26, 2022	1 year
. 36	4	50Ω Switch	Anritsu Corp	MP59B	620098370 5	Apr .27, 2021	Apr .26, 2022	1 year
	5	Spectrum Analyzer	Aglient	E4407B	MY451080 40	Apr .27, 2021	Apr .26, 2022	1 year
1	6	Unversal radio communication tester	R&S	CMU200	1100.008.0 2	Jul. 01, 2021	Jun. 30, 2022	1 year
	7	Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	Jul. 01, 2021	Jun. 30, 2022	1 year
	8	Test Cable	N/A	R-01	N/A	Aug. 07, 2019	Aug. 06, 2022	3 years
	9	Test Cable	N/A	R-02	N/A	Aug. 07, 2019	Aug. 06, 2022	3 years
	10	Bilog Antenna	TESEQ	CBL6111D	31216	Mar. 29, 2021	Mar. 28, 2022	1 year
	11	Horn Antenna	EM	EM-AH-101 80	201107140	Mar. 29, 2021	Mar. 28, 2022	1 year
	12	Amplifier	EMC	EMC05183 5SE	980246	Jul. 01, 2021	Jun. 30, 2022	1 year





2.5.3 HARMONICS AND FILCK

	w · · · · · .		/%			
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Harmonic & Flicker	EM TEST	DPA500	0303-04	Mar. 29, 2021	Mar. 28, 2022	1 year
AC Power Source	EM TEST	ACS500	0203-01	Mar. 29, 2021	Mar. 28, 2022	1 year
Unversal radio communication tester	R&S	CMU200	1100.008.0 2	Jul. 01, 2021	Jun. 30, 2022	1 year
Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	Jul. 01, 2021	Jun. 30, 2022	1 year
	Equipment Harmonic & Flicker AC Power Source Unversal radio communication tester Wideband Radio Communication Tester	Equipment Manufacturer Harmonic & Flicker AC Power Source Universal radio communication tester Wideband Radio Communication Tester Manufacturer EM TEST EM TEST R&S R&S R&S R&S R&S	Equipment Manufacturer Type No. Harmonic & EM TEST DPA500 AC Power Source EM TEST ACS500 Universal radio communication tester Wideband Radio Communication Tester Manufacturer Type No. EM TEST DPA500 CMU200 CMU200 CMU200 CMW500	EquipmentManufacturerType No.Serial No.Harmonic & FlickerEM TESTDPA5000303-04AC Power SourceEM TESTACS5000203-01Universal radio communication testerR&SCMU2001100.008.0Wideband Radio Communication TesterR&SCMW500148500	EquipmentManufacturerType No.Serial No.Last calibrationHarmonic & FlickerEM TESTDPA5000303-04Mar. 29, 2021AC Power SourceEM TESTACS5000203-01Mar. 29, 2021Unversal radio communication testerR&SCMU2001100.008.0 2Jul. 01, 2021Wideband Radio Communication TesterR&SCMW500148500Jul. 01, 2021	EquipmentManufacturerType No.Serial No.Last calibrationCalibrated untilHarmonic & FlickerEM TESTDPA5000303-04Mar. 29, 2021Mar. 28, 2022AC Power SourceEM TESTACS5000203-01Mar. 29, 2021Mar. 28, 2022Unversal radio communication testerR&SCMU2001100.008.0 2Jul. 01, 2021Jun. 30, 2022Wideband Radio Communication TesterR&SCMW500148500Jul. 01, 2021Jun. 30, 2022

2.5.4 ESD

						2.8.6	Approximation of the last of t
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
100	Unversal radio communication tester	R&S	CMU200	1100.008.0 2	Jul. 01, 2021	Jun. 30, 2022	1 year
2	Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	Jul. 01, 2021	Jun. 30, 2022	1 year
3	Electrostatic Discharge Generator	Lioncel	ESD-203B	ESD203B0 150402	Jul. 01, 2021	Jun. 30, 2022	1 year

2.5.5 RS

	RO			A.			
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Unversal radio communication tester	R&S	CMU200	1100.008.0 2	Jul. 01, 2021	Jun. 30, 2022	1 year
2	Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	Jul. 01, 2021	Jun. 30, 2022	1 year
3	Audio Power Amplifier	Brüel & Kjær	4602B	2185667	Apr .27, 2021	Apr .26, 2022	1 year
4	Mouth Simulator	Brüel & Kjær	2669	2143265	Apr .27, 2021	Apr .26, 2022	1 year
5	Sound Calibrator	Brüel & Kjær	4185	2194825	Apr .27, 2021	Apr .26, 2022	1 year
6	1/2" Pressure- field Microphone	Brüel & Kjær	735	2641678	Apr .27, 2021	Apr .26, 2022	1 year
7	Telephone Test Head	Brüel & Kjær	4185	2631728	Apr .27, 2021	Apr .26, 2022	1 year
8	Audio Analyzer	R&S	UPV 🥢	100419	Apr .27, 2021	Apr .26, 2022	1 year





Ear Simulator for 4185 2553612 Apr .27, 2021 Apr .26, 2022 1 year Brüel & Kjær Telephonometr 3142E(Fequ ency range 10 Bilog Antenna 00214344 Mar. 29, 2021 Mar. 28, 2022 **ETS** 1 year 30MHz to 6 GHz) Broadband 11 AR 60S1G6 0350414 Mar. 25, 2021 Mar. 24, 2022 1 year Amplifier **PSG** Analog MY511101 Signal E8257D Jul. 01, 2021 Jun. 30, 2022 12 Agilent 1 year 12 Generator NTWPA-00 17063153 Jul. 01, 2021 Jun. 30, 2022 13 Power Amplifier rflight 1 year 810200 **Power Amplifier** AR 25S1G4A 308598 Jul. 01, 2021 Jun. 30, 2022 14 1 year MY451025 15 Power Meter Agilent E4419B Jul. 01, 2021 Jun. 30, 2022 1 year 38 MY414956 Jul. 01, 2021 16 Power Sensor Agilent E9301A Jun. 30, 2022 1 year 44 US392121 Jul. 01, 2021 Jun. 30, 2022 17 Power Sensor E9301A 1 year Agilent 48

2.5.6 SURGE, EFT/BURST, VOLTAGE INTERRUPTION/DIPS

_	E.O.O GONGE, ET ITBONGT, VOLTAGE INTENNOT HONDITO							
	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
	1	Surge Generator	EVERFINE	EMS61000- 5A-V1	1101002	Apr .27, 2021	Apr .26, 2022	1 year
	2	DIPS Generator	EVERFINE	EMS61000- 11K	1011002	Apr .27, 2021	Apr .26, 2022	1 year
4	3	EFT/B Generator	EVERFINE	EMS61000- 4A-V2	1012005	Apr .27, 2021	Apr .26, 2022	1 year
/	4	Unversal radio communication tester	R&S	CMU200	1100.008.0	Jul. 01, 2021	Jun. 30, 2022	1 year
6.	d	Wideband Radio	+ 10			1	d	5
1/3	5	Communication	R&S	CMW500	148500	Jul. 01, 2021	Jun. 30, 2022	1 year
		Specifications		A	5	1 1	/	大

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2.5.7 INJECTION CURRENT

	INOLOTICIT OC	1 (1 (=1 (1)		/%			
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Attenuator	STESEQ	ATN 6075	38411	N/A	↓ N/A	N/A
2	RF Cable	TESEQ	RF Cable	N/A	N/A	N/A	N/A
3	Signal Generator	R&S	SML03	100954	Jul. 01, 2021	Jun. 30, 2022	1 year
4	Power Amplifier	TESEQ	CBA 230M-080	T44376	Jul. 01, 2021	Jun. 30, 2022	1 year
5	EM Clamp	FCC	F-203I-23M M	504	Jul. 01, 2021	Jun. 30, 2022	1 year
6	Audio Power Amplifier	Brüel & Kjær	4602B	21 <mark>8</mark> 5667	Jul. 01, 2021	Jun. 30, 2022	1 year
7	Mouth Simulator	Brüel & Kjær	2669	2143265	Jul. 01, 2021	Jun. 30, 2022	1 year
8	Sound Calibrator	Brüel & Kjær	4185	2194825	Jul. 01, 2021	Jun. 30, 2022	1 year
9	1/2" Pressure- field Microphone	Brüel & Kjær	735	2641678	Jul. 01, 2021	Jun. 30, 2022	1 year
10	Audio Analyzer	R&S	UPV	100419	Jul. 01, 2021	Jun. 30, 2022	1 year
11	Ear Simulator for Telephonometr v	Brüel & Kjær	4185	2553612	Apr .27, 2021	Apr .26, 2022	1 year
12	Telephone Test Head	Brüel & Kjær	4185	2631728	Apr .27, 2021	Apr .26, 2022	1 year
13	Unversal radio communication tester	R&S	CMU200	1100.008.0	Apr .27, 2021	Apr .26, 2022	1 year
14	Wideband Radio Communication Tester	R&S	CMW500	148500	Apr .27, 2021	Apr .26, 2022	1 year
15	Specifications Coupling and Decoupling Network	TESEQ	CDN M016	38722	Apr .27, 2021	Apr .26, 2022	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION

(Frequency Range 150kHz-30MHz)

Table A.8 - Requirements for conducted emissions from the AC mains power ports of Class A equipment

Applicabl	e to								
1. AC mains power ports (3.1.1)									
Table clause	Frequency range MHz	Coupling device (see Table A.7)	Detector type / bandwidth	Class A limits dB(μV)					
A8.1	0,15 - 0,5	AMNI	Quasi Peak / 9 kHz	79					
	0,5 - 30	AMN	Quasi Peak / 9 kHz	73					
A8.2	0,15 - 0,5	AMN	Average / O kHz	66					
	0,5 - 30	AIVIN	Average / 9 kHz	60					

Apply A8.1 and A8.2 across the entire frequency range.

Table A.9 – Requirements for conducted emissions from the AC mains power ports of Class B equipment

Applicabl	e to			
1. AC mai	ns power ports (3.1.1)			
Table clause	Frequency range MHz	Coupling device (see Table A.7)	Detector type / bandwidth	Class B limits dB(μV)
A9.1	0,15 - 0,5			66 – 56
	0,5 - 5	AMN	Quasi Peak / 9 kHz	56
	5 – 30			60
A9.2	0,15 - 0,5			56 – 46
70.2	0,5 – 5	AMN	Average / 9 kHz	46
	5 – 30			50

Note:

- The tighter limit applies at the band edges. (1)
- The limit of " * " marked band means the limitation decreases linearly with the (2)logarithm of the frequency in the range.





3.1.2 TELECOMMUNICATION PORT CONDUCTED EMISSION(VOLTAGE LIMITS) (Frequency Range 150kHz-30MHz)

Table A.10 - Requirements for asymmetric mode conducted emissions from Class A equipment

Applicable to

- 1. wired network ports (3.1.30) 2. optical fibre ports (3.1.24) with metallic shield or tension members 3. antenna ports (3.1.3)

Table clause	Frequency range MHz	Coupling device (see Table A.7)	Detector type / bandwidth	Class A voltage limits dB(μV)	Class A current limits dB(µA)	
A10.1	0,15 - 0,5	A A N I	O	97 – 87		
	0,5 - 30	AAN	Quasi Peak / 9 kHz	87	,	
	0,15 - 0,5	A A N I	A.,	84 – 74	n/a	
	0,5 - 30	AAN	Average / 9 kHz	74		
A10.2	0,15 - 0,5	CVP	Overi Beek / O kl l=	97 – 87	53 – 43	
	0,5 - 30	and current probe	Quasi Peak / 9 kHz	87	43	
	0,15 - 0,5	CVP	A	84 – 74	40 – 30	
	0,5 - 30	and current probe	Average / 9 kHz	74	30	
A10.3	0,15 - 0,5	Owner of Deep c	Oursi Bask / Old Is		53 – 43	
	0,5 - 30	Current Probe	Quasi Peak / 9 kHz	- 1-	43	
	0,15 - 0,5	Owner the Deep trans	A	- n/a	40 – 30	
	0,5 – 30	Current Probe	Average / 9 kHz		30	

The choice of coupling device and measurement procedure is defined in Annex C.

AC mains ports that also have the function of a wired network port shall meet the limits given in Table A.8.

The test shall cover the entire frequency range.

The application of the voltage and/or current limits is dependent on the measurement procedure used. Refer to Table C.1 for applicability.

Testing is required at only one EUT supply voltage and frequency.

Applicable to ports listed above and intended to connect to cables longer than 3 m.





Table A.12 – Requirements for conducted differential voltage emissions from Class B equipment

- **Applicable to**1. TV broadcast receiver tuner ports (3.1.8) with an accessible connector 2. RF modulator output ports (3.1.27)
- 3. FM broadcast receiver tuner ports (3.1.8) with an accessible connector

Table clause	Frequency range	Detector type/ bandwidth	Class B limits dB(μV) 75 Ω			Applicability
	MHz		Other	Local Oscillator Fundamental	Local Oscillator Harmonics	
A12.1	30 – 950		46	46	46	See a)
	950 – 2 150	For frequencies ≤1 GHz	46	54	54	
A12.2	950 – 2 150	Quasi Peak/	46	54	54	See b)
A12.3	30 – 300	120 kHz	46	54	50	See c)
	300 – 1 000				52	
A12.4	30 – 300	For frequencies	46	66	59	See d)
	300 – 1 000 ≥1 GHz				52	
A12.5	30 – 950	Peak/ 1 MHz	46	76	46	See e)
	950 – 2 150	. 171112		n/a	54	1

- Television receivers (analogue or digital), video recorders and PC TV broadcast receiver tuner cards working in channels between 30 MHz and 1 GHz, and digital audio receivers.
- Tuner units (not the LNB) for satellite signal reception.
- Frequency modulation audio receivers and PC tuner cards. c)
- Frequency modulation car radios. d)
- Applicable to EUTs with RF modulator output ports (for example DVD equipment, video recorders, camcorders and decoders etc.) designed to connect to TV broadcast receiver tuner ports.

Testing is required at only one EUT supply voltage and frequency.

The term 'other' refers to all emissions other than the fundamental and the harmonics of the local oscillator.

The test shall be performed with the device operating at each reception channel.

The test shall cover the entire frequency range.

The following table is the setting of the receiver

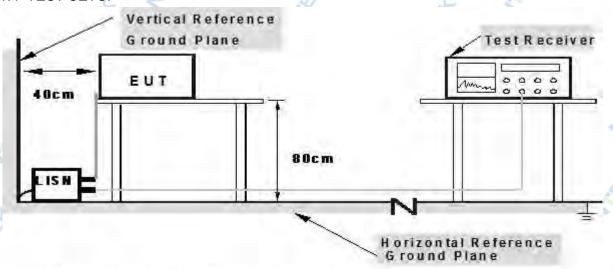
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.2 Unless otherwise a special operating condition is specified in the follows during the testing.





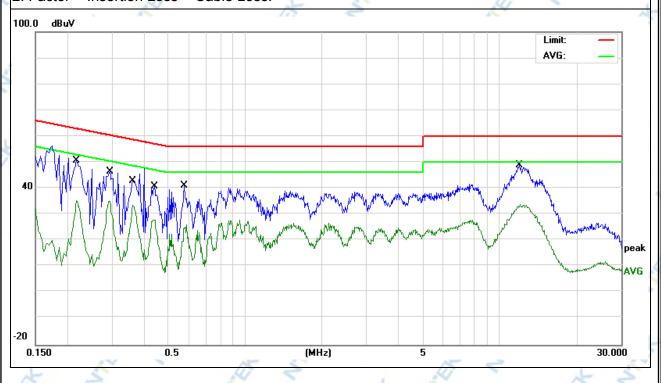
3.1.6 TEST RESULTS

EUT:	Mobile Phone	Model Name:	A95
Temperature:	24.7℃	Relative Humidity:	53%
Pressure:	1010hPa	Phase:	2 4 5
Test Voltage:	DC 5V from Adapter AC 230V/50Hz	Test Mode:	Mode 1

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2179	41.11	9.63	50.74	62.89	-12.15	QP
0.2179	25.66	9.63	35.29	52.89	-17.60	AVG
0.2939	36.80	9.63	46.43	60.41	-13.98	QP
0.2939	25.42	9.63	35.05	50.41	-15.36	AVG
0.3619	33.22	9.64	42.86	58.68	-15.82	QP
0.3619	23.79	9.64	33.43	48.68	-15.25	AVG
0.4420	31.18	9.64	40.82	57.02	-16.20	Q P
0.4420	18.27	9.64	27.91	47.02	-19.11	AVG
0.5779	31.28	9.68	40.96	56.00	-15.04	QP
0.5779	16.31	9.68	25.99	46.00	-20.01	AVG
11.9778	39.06	9.76	48.82	60.00	-11.18	QP
11.9778	24.13	9.76	33.89	50.00		AVG 📈

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





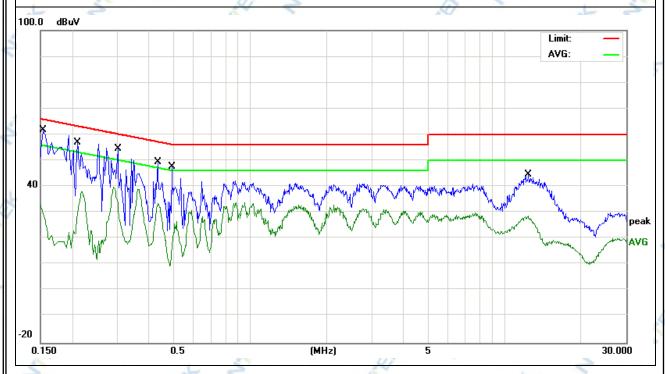
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7	47 6	30 (3)	
EUT:	Mobile Phone	Model Name:	A95
Temperatu	re: 21.1℃	Relative Humidity:	50%
Pressure:	1010hPa	Phase:	N
Test Voltag	ge: DC 5V from Adapter AC 230V/50Hz	Test Mode:	Mode 1

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	52.03	9.63	61.66	65.78	-4.12	QP
0.1539	23.47	9.63	33.10	55.78	-22.68	AVG
0.2100	47.32	9.63	56.95	63.20	-6.25	QP
0.2100	28.52	9.63	38.15	53.20	-15.05	AVG
0.3020	45.00	9.66	54.66	60.19	-5.53	QP
0.3020	30.12	9.66	39.78	50.19	-10.41	AVG
0.4340	39.86	9.72	49.58	57.1 <mark>8</mark>	-7.60	QP
0.4340	23.91	9.72	33.63	47.18	-13.55	AVG
0.4940	37.81	9.74	47.55	56.10	-8.55	≥ QP
0.4940	16.83	9.74	26.57	46.10	-19.53	AVG
12.4098	35.00	9.77	44.77	60.00	-15.23	QP
12.4098	18.87	9.77	28.64	50.00	-21.36	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



Note: The test modes were carried out for all operation modes. The worst test mode for test data was showed in the report.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

Table A.2 – Requirements for radiated emissions at frequencies up to 1 GHz for Class A equipment

Table clause	Frequency range	Measurement		Class A limits dB(μV/m)	
oluuso	MHz	Distance m	Detector type/ bandwidth	OATS/SAC (see Table A.1)	
A2.1	30 – 230	10	10 Quasi Peak / 120 kHz	40	
	230 – 1 000	10		47	
A2.2	30 – 230			50	
	230 – 1 000	3		57	

Apply only A2.1 or A2.2 across the entire frequency range.

Table A.4 – Requirements for radiated emissions at frequencies up to 1 GHz for Class B equipment

Table clause	Frequency range	requency range Measurement		Class B limits dB(μV/m)	
Cidasc	MHz	Distance m	Detector type/ bandwidth	OATS/SAC (see Table A.1)	
A4.1	30 – 230	10	10		30
	230 – 1 000				Quasi Peak /
A4.2	30 – 230		120 kHz	40	
	230 – 1 000	3		47	

Apply only table clause A4.1 or A4.2 across the entire frequency range.

Table A.6 - Requirements for radiated emissions from FM receivers

Table Frequency range MHz		Measurement		Class B limit dB(μV/m)		
		Distance Detector type/ m bandwidth		Fundamental	Harmonics	
	OATS/SAC (see Table A.1)			OATS/SAC (see Table A.1)		
A6.1	30 – 230				42	
	230 – 300	10		50	42	
	300 – 1 000		Quasi peak/		46	
A6.2	30 – 230		120 kHz		52	
	230 – 300	3		60	52	
	300 – 1 000				56	

Apply only A.6.1 or A.6.2 across the entire frequency range.

These relaxed limits apply only to emissions at the fundamental and harmonic frequencies of the local oscillator. Signals at all other frequencies shall be compliant with the limits given in Table A.4.





3.2.2 LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Table A.3 - Requirements for radiated emissions at frequencies above 1 GHz for Class A equipment

Table clause	Frequency range	uency range Measurement		Class A limits dB(μV/m)
ciuusc	MHz	Distance m	Detector type/ bandwidth	FSOATS (see Table A.1)
A3.1	1 000 – 3 000		Average /	56
	3 000 – 6 000	•	1 MHz	60
A3.2	1 000 – 3 000	3	Peak /	76
	3 000 – 6 000		1 MHz	80

Apply A3.1 and A3.2 across the frequency range from 1 000 MHz to the highest required frequency of measurement derived from Table 1.

Table A.5 – Requirements for radiated emissions at frequencies above 1 GHz for Class B equipment

Table clause	Frequency range	Me	easurement	Class B limits dB(μV/m)		
Siauss	MHz	Distance m	Detector type/ bandwidth	FSOATS (see Table A.1)		
A5.1	1 000 – 3 000			Average/ 1 MHz	Average/	50
	3 000 – 6 000	3			54	
A5.2	1 000 – 3 000	3		70		
	3 000 – 6 000		1 MHz	74		

Apply A5.1 and A5.2 across the frequency range from 1 000 MHz to the highest required frequency of measurement derived from Table 1.

Notes:

- (1) The limit for radiated test was performed according to as following: CISPR 32.
- The tighter limit applies at the band edges. (2)
- (3)Emission level (dBµV/m)=20log Emission level (uV/m).



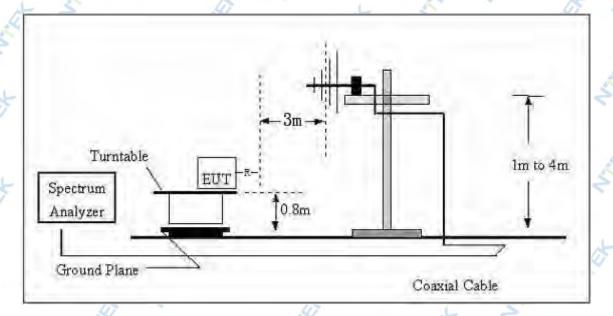


3.2.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.2.4 TEST SETUP

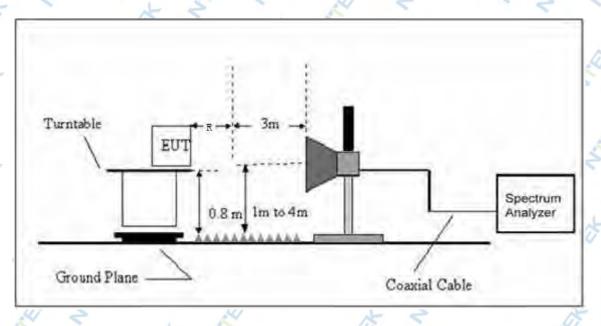
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz







(B) Radiated Emission Test Set-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.2** Unless otherwise a special operating condition is specified in the follows during the testing.

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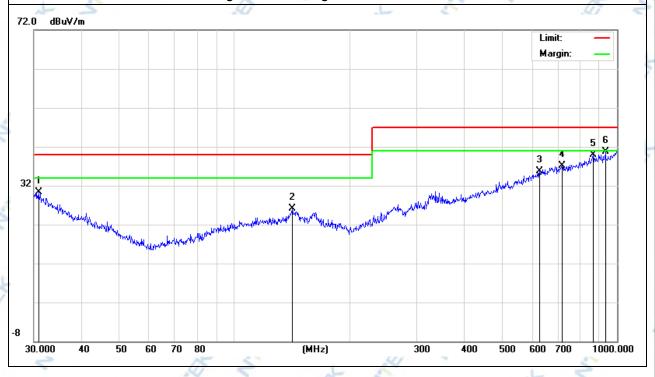
3.2.6 TEST RESULTS (30-1000MHz)

EUT:	Mobile Phone	Model Name:	A95
Temperature:	23.9℃	Relative Humidity:	52%
Pressure:	1010 hPa	Polarization:	Horizontal
LIAST POWAR.	DC 5V from Adapter AC 230V/50Hz	Test Mode:	Mode 1

9.74	A			24.7	and the same of th	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Remark
30.8535	6.16	24.14	30.30	40.00	-9.70	QP
141.8 <mark>2</mark> 62	7.30	18.71	26.01	40.00	-13.99	QP
627.2738	7.04	28.69	35.73	47.00	-11.27	QP
719.1992	7.46	29.72	37.18	47.00	-9.82	QP
866.0878	7.65	32.23	39.88	47.00	-7.12	QP
932.2713	8.07	32.70	40.77	47.00	-6.23	Q P

Remark:

1. Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.





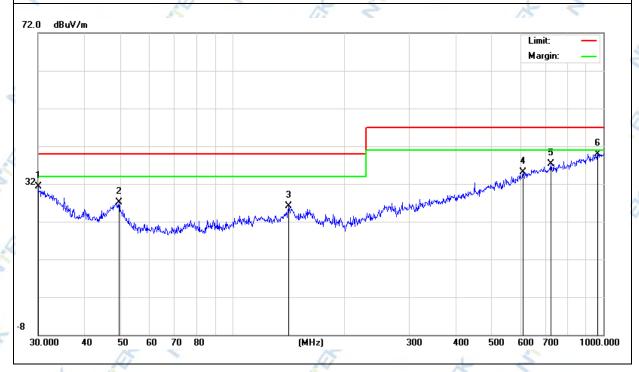
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347		213	F-1	V /53	30
EUT:	Mobile Phone	Model Name:	A95	1	5
Temperature:	24.5℃	Relative Humidity:	51%	-	
Pressure:	1010 hPa	Polarization:	Vertical		
I LOCT POWAR.	DC 5V from Adapter AC 230V/50Hz	Test Mode:	Mode 1	*	A.

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Remark
30.0000	6.15	25.06	31.21	40.00	-8.79	QP
49.5328	12.41	14.77	27.18	40.00	-12.82	QP
141.8262	7.38	18.71	26.09	40.00	-13.91	QP
607.7866	6.75	28.26	35.01	47.00	-11.99	QP
721.7259	7.48	29.74	37.22	47.00	-9.78	QP
965.5421	6.48	33.36	39.84	47.00	-7.16	QP

Remark:

1. Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.



Note: The test modes were carried out for all operation modes. The worst test mode for test data was showed in the report.



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3.2.7 TEST RESULTS(1000-6000MHz)

EUT:	Mobile Phone	Model Name:	A95
Temperature:	24.5℃	Relative Humidity:	51%
Pressure:	1010 hPa	Test Mode:	Mode 1
Test Power:	DC 5V from Adapter AC 230V/50Hz		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
V	2450.000	38.20	6.30	44.50	70.00	-25.50	peak
V.	2987.500	36.90	9.53	46.43	70.00	-23.57	peak
V	3975.000	35.12	13.51	48.63	74.00	-25.37	peak
V	4237.500	36.53	13.80	50.33	74.00	-23.67	peak
V	5062.500	35.11	13.89	49.00	74.00	-25.00	peak
V	5575.000	33.65	15.38	49.03	74.00	-24.97	peak
Н	2562.500	38.92	6.92	45.84	70.00	-24.16	peak
4	2825.000	38.14	8.28	46.42	70.00	-23.58	peak
H	2962.500	37.67	9.34	47.01	70.00	-22.99	peak
Н	3987.500	34.81	13.59	48.40	74.00	-25.60	peak
₹H	4237.500	35.95	13.80	49.75	74.00	-24.25	peak
Н	5600.000	34.33	15.39	49.72	74.00	-24.28	peak

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit

Note: The test modes were carried out for all operation modes. The worst test mode for test data was showed in the report.





3.3 HARMONICS CURRENT

3.3.1LIMITS OF HARMONICS CURRENT

Table 1 – Limits for Class A equipment

Harmonic order (n)	Maximum permissible harmonic current (A)	
Odd ha	armonics	
<u></u> <i>★ ★ 3</i>	2.3	
5	1.14	
17	0.77	
9	0.4	
Jr ₹ 11	0.33	
13	0.21	
15≤n≤39	0.15*(15/n)	
Even ha	armonics	
2 1 2	1.08	
4	0.43	
6	0.30	
8≤n≤40	0.23*(8/n)	
///	AF .	

Note: Reference standard of the table above: EN61000-3-2.





3.3.2 TEST PROCEDURE

- a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions.
- b. The classification of EUT is according to section 5 of EN 61000-3-2. The EUT is classified as follows:

Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.

Class B: Portable tools. Portable tools.; Arc welding equipment which is not professional equipment.

Class C: Lighting equipment.

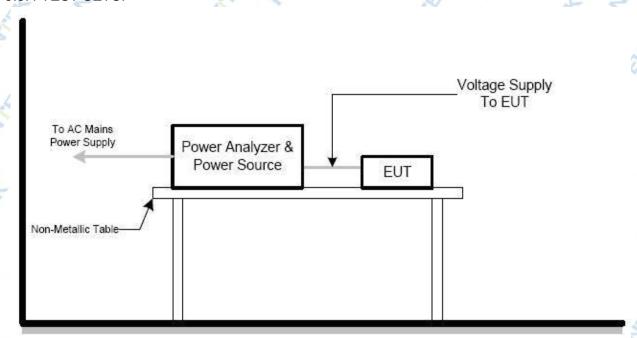
Class D: Equipment having a specified power less than or equal to 600W of the following types: Personal computers and personal computer monitors and television receivers.

c. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.

3.3.3 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

3.3.4 TEST SETUP





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3.3.5 TEST RESULTS

EUT:	Mobile Phone	Model Name:	A95
Temperature:	22 ℃	Relative Humidity:	53%
Pressure:	1012hPa	Test duration:	150s
Classification:	Class A	Test Power:	N/A
Test Mode:	N/A	5	No.

Note: The active input power of the EUT is less than 75 W. No limits apply for equipment with an active input power up to and including 75W.



3.4 VOLTAGE FLUCTUATION AND FLICKERS

3.4.1 LIMITS OF VOLTAGE FLUCTUATION AND FLICKERS

Test items Limits(EN61000-3-3)		Descriptions
P _{st}	\leq 1.0, T _p =10min	short-term flicker indicator
P _{lt}	≤0.65, T _p =2h	long-term flicker indicator
d _c	≤3.3%	relative steady-state voltage change
d _{max}	≤4%(or 6% _{Note(1)} , 7% _{Note(2)})	maximum relative voltage change:
d _(t)	≤3.3%, more than 500ms	relative voltage change characteristic

Note:

- 1. 6 % for equipment which is:
 - a. switched manually, or
 - b. switched automatically more frequently than twice per day, and also has either a delayed restart (the delay being not less than a few tens of seconds), or manual restart, after a power supply interruption.
- 2. 7 % for equipment which is
 - a. attended whilst in use (for example: hair dryers, vacuum cleaners, kitchen equipment such as mixers, garden equipment such as lawn mowers, portable tools such as electric drills), or b. switched on automatically, or is intended to be switched on manually, no more than twice per day, and also has either a delayed restart (the delay being not less than a few tens of seconds) or manual restart, after a power supply interruption.

3.4.2 TEST PROCEDURE

a. Harmonic Current Test:

Test was performed according to the procedures specified in Sub-clause 6.2 of IEC/EN 61000-3-2 depend on which standard adopted for compliance measurement.

b. Fluctuation and Flickers Test:

Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.

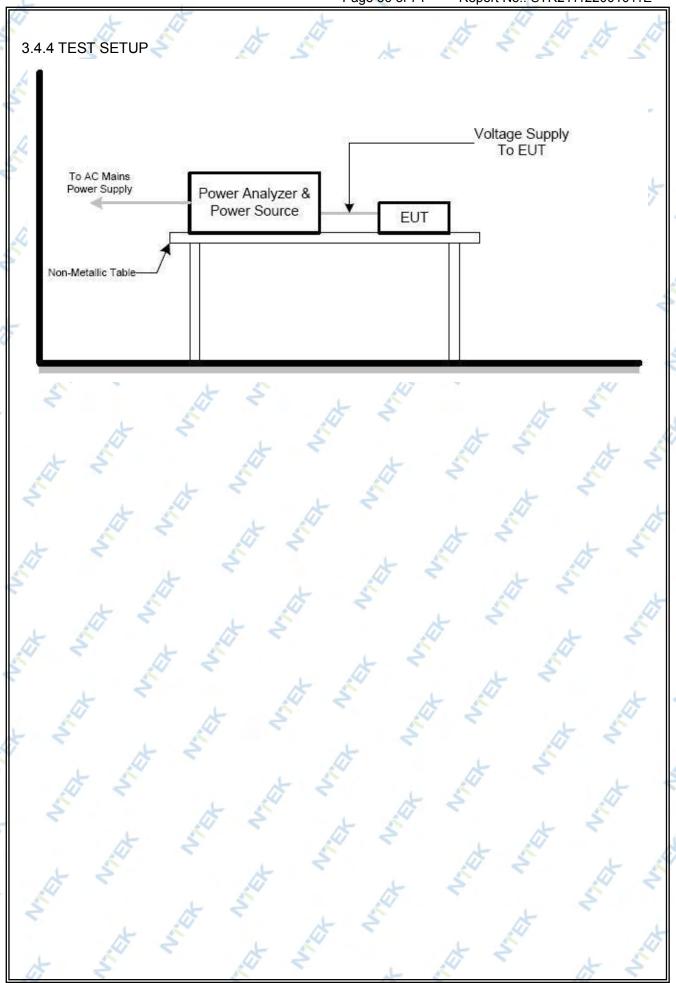
c. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

3.4.3 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



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3.4.5 TEST RESULTS

EUT:	Mobile Phone	Model Name:	A95
Temperature:	22.2℃	Relative Humidity:	52%
Pressure:	1010 hPa	Test Power:	DC 5V from Adapter AC 230V/50Hz
Test Mode:	Mode 1	5	Ø 2

*	EUT values	Limit 🕢	Result
Pst	0.028	1.00	PASS
Plt	0.028	0.65	PASS
dc [%]	0.000	3.30	PASS
dmax [%]	0.150	4.00	PASS
Tmax [s]	0.000	0.50	PASS



4. EMC IMMUNITY TEST

4.1 GENERAL PERFORMANCE CRITERIA

4.1.1 PERFORMANCE CRITERIA

According to EN 55035 standard, the general performance criteria as following:

1	Criterion A	The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
110.	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. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.
4	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. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

According to **EN 301 489-3** standard, the general performance criteria as following:

Criteria	During the test	After the test								
5	Operate as intended	Operate as intended								
	No loss of function	No loss of function								
Α 🔔	No unintentional responses	No degradation of performance								
10	+ # >	No loss of stored data or user programmable								
2	0 3	functions								
	+ 5	Operate as intended								
	May show loss of function	Lost function(s) shall be self-recoverable								
BA <	No unintentional responses	No degradation of performance								
100	No unintentional responses	No loss of stored data or user programmable								
	A X	functions								



According to EN 301 489-17 standard, the general performance criteria as following:

J			
Ś	Criteria	During the test	After the test
		Shall operate as intended (see note 1).	Shall operate as intended.
	¥.	Shall be no loss of function.	Shall be no degradation of performance
~	× 3	Shall be no unintentional	(see note 3).
>	А	transmissions	Shall be no loss of function.
		4 4	Shall be no loss of stored data or user
	L 3	4	programmable functions
4	7	May show loss of function (one or	Functions shall be self-recoverable.
		more).	Shall operate as intended after recovering.
	D (4)	May show degradation of performance	Shall be no degradation of performance
	В	(see note 2).	(see note 3).
	~	Shall be no unintentional	Shall be no loss of stored data or user
		transmissions.	programmable functions.
	4	N.	Functions shall be recoverable by the
	5	* 5	operator.
	С	May be loss of function (one or more)	Shall operate as intended after recovering.
		# 5	Shall be no degradation of performance
	4	5	(see note 3).

NOTE 1: Operate as intended during the test allows a level of degradation not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

NOTE 2: Degradation of performance during the test is understood as a degradation to a level not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance.

If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

NOTE 3: No degradation of performance after the test is understood as no degradation below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. After the test no change of actual operating data or user retrievable data is allowed. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.





According to EN 301 489-19 standard, the general performance criteria as following:

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.





Special conditions for EMC immunity tests Table 2: Special conditions for EMC immunity tests

Reference to clauses in ETSI EN 301 489-1 [1]	Special product-related conditions, additional to or modifying the test conditions in ETSI EN 301 489-1 [1], clause 9
9.1 Test configuration; Test methods and levels for immunity tests	The message memory shall be loaded with recognizable messages. The EUT shall operate in stand-by mode of operation, except 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) where repetitive calls shall be coupled to the input of the receiver. • for the immunity tests of ancillary equipment, without a separate pass/fail criteria, an EUT coupled to the ancillary equipment shall be used to judge whether the ancillary equipment passes or fails.
9.2.2 Test method; Radio frequency electromagnetic field	Spot frequency test: A spot frequency test shall additionally be performed at:
	 80 MHz; 104 MHz; 136 MHz; 165 MHz; 200 MHz; 260 MHz; 330 MHz; 430 MHz; 560 MHz; 715 MHz ± 1 MHz; a spot frequency test shall be performed at 920 MHz ± 1 MHz using a test level of 3 V/m (measured unmodulated) 100 % modulated by 200 Hz pulses of equal mark to space ratio.





PERFORMANCE FOR TT

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration, for which performance criteria C shall apply. Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an acknowledgement (ACK) or not-acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

PERFORMANCE FOR TR

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration for which performance criteria C shall apply. Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

PERFORMANCE FOR CT

The performance criteria A shall apply. Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an Acknowledgement (ACK) or Not Acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

PERFORMANCE FOR CR

The performance criteria A shall apply. Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

According to EN 301 489-52 standard, the general performance criteria as following:

GSM and DCS Performance Criteria

Please refer to the standard ETSI EN 301 489-52 V1.2.1 (2021-11) clause 6.1.

CDMA Direct Spread (UTRA and E-UTRA) Performance Criteria

Please refer to the standard ETSI EN 301 489-52 V1.2.1 (2021-11) clause 6.2.

4.2 GENERAL PERFORMANCE CRITERIA TEST SETUP

The EUT tested system was configured as the statements of **2.2** Unless otherwise a special operating condition is specified in the follows during the testing.



4.3 ESD TESTING

4.3.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-2
Discharge Impedance:	330 ohm / 150 pF
Required Performance	В 🖟 💆
Discharge Voltage:	Air Discharge: 2kV/4kV/8kV
	Contact Discharge: 2kV/4kV (Direct/Indirect)
Polarity:	Positive & Negative
Number of Discharge:	Air Discharge: min. 20 times at each test point
	Contact Discharge: min. 200 times in total
Discharge Mode:	A/C Discharge
Discharge Period:	1 second minimum

4.3.2 TEST PROCEDURE

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

a. Indirect application of the discharge:

Vertical Coupling Plane (VCP):

At least 10 single discharges (in the most sensitive polarity) shall be applied to the centre of one vertical edge of the coupling plane. The coupling plane, of dimensions $0.5 \, \text{m} \times 0.5 \, \text{m}$, is placed parallel to, and positioned at a distance of $0.1 \, \text{m}$ from, the EUT.

Discharges shall be applied to the coupling plane, with sufficient different positions such that the four faces of the EUT are completely illuminated. One VCP position is considered to illuminate $0.5 \,\mathrm{m} \, \times \, 0.5 \,\mathrm{m}$ area of the EUT surface.

Horizontal Coupling Plane (HCP):

Discharge to the HCP shall be made horizontally to the edge of the HCP.

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the centre point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

The discharge electrode shall be in contact with the edge of the HCP before the discharge switch is operated

b. Direct application of discharges to the EUT

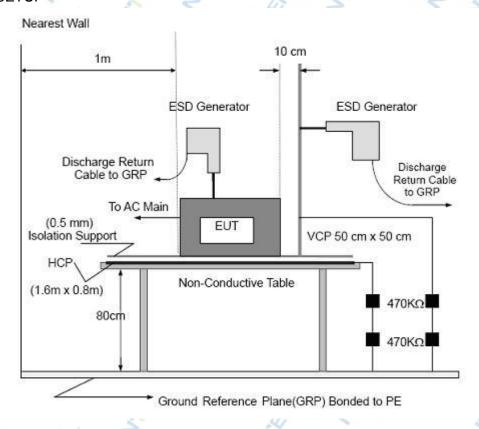
The test shall be performed with single discharges. On each pre-selected point at least 10 single discharges (in the most sensitive polarity) shall be applied.

For the time interval between successive single discharges an initial value of 1 s is recommended. Longer intervals may be necessary to determine whether a system failure has occurred.





4.3.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940k total impedance. The equipment under test, was installed in a representative system as described in section 7 of IEC /EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

FLOOR-STANDING EQUIPMENT

The equipment under test was installed in a representative system as described in section 7 of IEC/EN 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of 0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.



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4.3.4 TEST RESULTS

4.7.7			
EUT:	Mobile Phone	Model Name:	A95
Temperature:	22 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	LIACT DOWAY.	DC 5V from Adapter AC 230V/50Hz / DC 5V from PC
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10	5	A A

A			4								
Mode	Contact D	isch	arg	e (Ir	ndire						
Test level(kV)	Test Point	2	2		2		4		3	Criterion	Result
Test Location	163t i Ollit	+	-	+	-	+	-				
A	Front	Р	P	Р	Р			24 -	L 20		
HCP	Rear	Р	Р	Р	P	1			AT 2		
TIOP	Left	Р	Р	Р	Ρ			A. T.	7.		
4 5	Right	P	Р	Ρ	Р			A B	Complies		
5	Front	Р	Р	Р	Р		A.	Q B	Compiles		
VCP	Rear	Р	Р	Ρ	Φ.		1		AT T		
VOI	Left	P	Р	Ρ	Р			A	E L		
0, 5	Right	P	Р	Р	Р		水	<u> </u>	14		





TEST RESULT

Mode 5/6/7/8/9/10

Mode		Α	ir [Dis	cha	arg	е		Contact Discharge							9	BT / WIFI / GSM /			
Test level(kV)	2	2	4	ļ	8	3	1	5	2	2	4		6		8		WCDMA / LTE	GPS Obser	Crite rion	Result
Test Location	+	-	+	ı	+	1	+	ı	+	ı	+	ı	+	ı	+	ı	Observati on	vation		
A1 /	Р	Ρ	P	Р	Р	Р					1						*	-		D
↓ A2 <u></u>	Р	Ρ	Р	Р	Р	Р	4	1							-		1		1	
A3	Р	Р	P	Р	Р	P	1.				- 4			1	25			t	5	
A4	Р	Р	P	Р	Р	Р					4			11			TTTD	24	В	Comples
A5	Р	Р	Р	Р	Р	Р	4			1							TT,TR	TR	В	Complies
A6	Р	Р	Р	Р	Р	Р								×	,		1		D	4
A7	Р	P	Р	Р	Р	Р				.4			Š	-			4	5	5	
A8	R	Р	Р	Р	Р	Р			4	Q			9				of E			at .



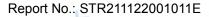


Mode 1/2/3/4

Mode		Α	ir [Dis	cha	arg	е		(Cor	nta	ct C	Disc	cha	•					
Test level(kV)	2	2	4	ļ.	ε	}	1	15		2		4		. (6		3	Crite rion	Result
Test Location	+	1	+	1	+	ı	+	1	+	1	+	1	+	1	+	ı				
A1 _	Р	Р	Р	Р	Р	Р		子			10						1	0 -		
A2	Р	Р	Р	P	Р	Р	3	3							X		-	4		
A3	Р	Р	Р	P	Р	Ρ	8							15.	~			4		
A4 🔏	Р	Р	P	Р	Р	Р		1			2			-			P.	Complies		
A5	Р	Р	Р	Р	Р	Р	1	13		7	4			,	4		В	Complies		
A6	Р	Р	Ь	Р	Р	Р	1							12						
A7	Р	Р	Р	Р	Р	Р				0	1			0				D		
A8	Р	P	Р	Р	Р	Р	L		1	7/							1	4		

Note:

- 1) +/- denotes the Positive/Negative polarity of the output voltage.
- 2) In the table: 'P' represents 'PASS'; 'F' represents 'FAIL'.
- 3) There was not any unintentional transmission in standby mode.





4.3.5 PHOTO(S) SHOWN THE LOCATION(S) OF ESD EVALUATED

Photo 1

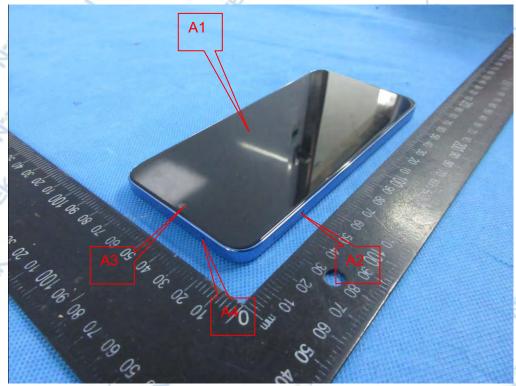
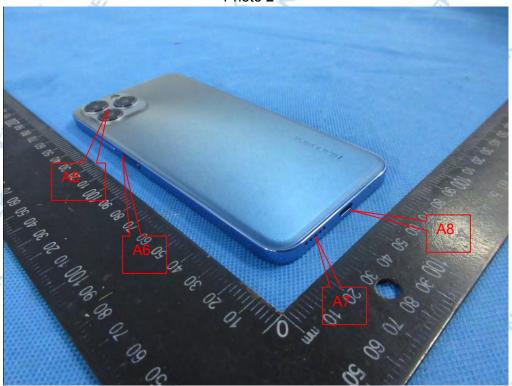


Photo 2





4.4 RS TESTING

4.4.1 TEST SPECIFICATION

IEC/EN 61000-4-3
A A
According to EN 301 489-1:
80 MHz - 6000 MHz ;
According to EN 55035:
80 MHz to 1000 MHz
1800 MHz
2600 MHz
3500 MHz
5000 MHz
3 V/m
1kHz Sine Wave, 80%, AM Modulation
1 % of fundamental
Horizontal and Vertical
3 m
1.5 m
at least 3 seconds

4.4.2 TEST PROCEDURE

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.

The testing distance from antenna to the EUT was 3 meters.

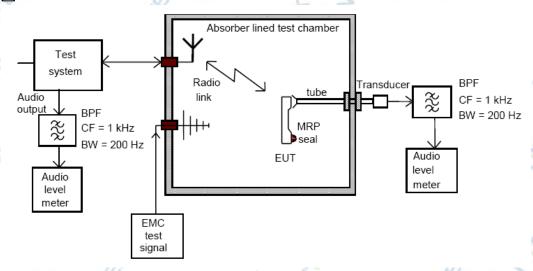
The other condition as following manner:

- a. The field strength level was 3V/m.
- b. The frequency range is swept from 80 MHz to 6000 MHz, 1800 MHz, 2600 MHz, 3500 MHz, 5000 MHz with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5 x 10⁻³ decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- c. Sweep Frequency 900 MHz, with the Duty Cycle:1/8 and Modulation: Pulse 217 Hz(if applicable)
- d. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- e. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

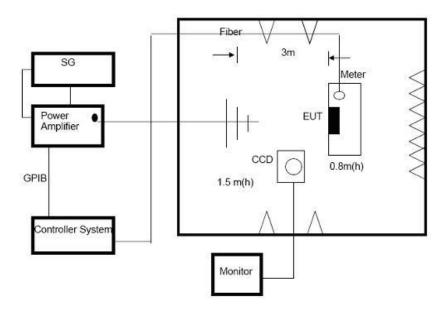




4.4.3 TEST SETUP



⊠ General Communication



Note:

For the actual test configuration, please refer to the related Item –EUT Test Photos.

TABLE-TOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive wood support 0.1 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.



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4.4.4 TEST RESULTS

EUT:	Mobile Phone	Model Name:	A95
Temperature:	23℃	Relative Humidity:	57%
Pressure:	1010 hPa	LIAST DOWAR	DC 5V from Adapter AC 230V/50Hz / DC 5V from PC
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10	5	W -

TEST RESULT

LTE FDD B1 / B3 / B7 / B8 / B20 / B40 Data Link

Frequency Range	RF Field	R.F.	Azimuth	Observation	Results	
(MHz)	Position	Field Strength	Azimum	Observation	Results	
24	0	2 \//20 (**********	Front		+ 20	
80~1000 1000-6000	H/V	3 V/m (rms) AM Modulated	Rear	CT,CR	P	
		1000Hz, 80%	Left	CI,CR	P	
PO S		100002, 60%	Right	3	d	

Note:

1. The exclusion band has not been tested in 80MHz~6GHz.

For channelized equipment the exclusion band shall be calculated by using the following formulae:

For the lower edge for the exclusion band:

EXband(lower) = BandRX(lower) - nChWRX

and for the upper edge of the exclusion band:

EXband(upper) = BandRX(upper) + nChWRX

Where n = number of channel widths required for exclusion band.

2. In the data transfer mode, the performance criteria shall be that the throughput shall be \geq 95 % of the maximum throughput of the reference measurement channel



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GSM 900 / 1800 / WCDMA 2100 / 900 Uplink and Downlink

	Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Observation	Perform. Criteria	Results
A VA	80~1000 1000-6000	H/V	3 V/m (rms) AM Modulated 1000Hz, 80%	Front Rear Left Right	CT,CR	A A	AMP &

Note:

1. The exclusion band has not been tested in 80MHz~6GHz.

For channelized equipment the exclusion band shall be calculated by using the following formulae:

For the lower edge for the exclusion band:

EXband(lower) = BandRX(lower) - nChWRX

and for the upper edge of the exclusion band:

EXband(upper) = BandRX(upper) + nChWRX

Where n = number of channel widths required for exclusion band.

2: "A" stand for: the uplink/downlink speech output level shall be at least 35 dB less than the previously recorded reference levels, when measured through an audio band pass filter of width 200 Hz, centred on 1 kHz (audio breakthrough check). The RXQUAL of the downlink is not exceeding the value of three, measured during each individual exposure in the test sequence. Or During and after the test, the apparatus continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level.



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GPRS / EGPRS / HSDPA / HSUPA Uplink and Downlink

				113			
Frequency	RF Field	R.F.	Azimuth	Observation	Perform.	Results	
Range (MHz)	Position	Field Strength	Azimum	Observation	Criteria	Results	
L		2 \//m (rma)	Front	1	19	4	
80~1000	H/V	3 V/m (rms) AM Modulated	Rear	CT,CR	- A	P	
1000-6000	П/	1000Hz, 80%	🙏 Left 🍣	CI,CK	N	7	
A.	2	1000112, 80%	Right	4	7		

Note:

1. The exclusion band has not been tested in 80MHz~6GHz.

For channelized equipment the exclusion band shall be calculated by using the following formulae:

For the lower edge for the exclusion band:

EXband(lower) = BandRX(lower) - nChWRX

and for the upper edge of the exclusion band:

EXband(upper) = BandRX(upper) + nChWRX

Where n = number of channel widths required for exclusion band.

- 2. During the test, the Maximum Bit Error Ratio was less than 1×10⁻³.
- 3. During the test, the Maximum Block Error Ratio was less than 1×10⁻².

BT / WIFI link

Frequency	RF Field	R.F.	Azimuth	Observation	Perform.	Results
Range (MHz)	Position	Field Strength	AZIIIIUUI	Observation	Criteria	Results
90-1000	The same	3 V/m (rms)	Front Rear		To the same	2
1000-6000	80~1000 1000-6000	AM Modulated	Left	CT,CR	A	P
4 5	4	1000Hz, 80%	Right	5		4

Note:

1. The exclusion band has not been tested in 80MHz~6GHz.

The exclusion band for immunity testing of equipment operating in the 2,4 GHz band shall be: • lower limit of exclusion band = lowest allocated band edge frequency -120 MHz, i.e. 2 280 MHz; • upper limit of exclusion band = highest allocated band edge frequency +120 MHz, i.e. 2 603,5MHz.

2. "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.





GPS Receiver Mode Link

_`	or or incommental initial	<u> </u>	4	//3			
3	Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Observation	Perform. Criteria	Results
	t d		2)//== (====)	Front	The The	4	TO
K	80~1000	H/V	3 V/m (rms) AM Modulated	Rear	CR	A	P
	1000-6000	V 117 V	1000Hz, 80%	Left	UN A		1
	P	2	4 5.	Right	4	t	5
40	80,104,136,	x 2		Front	·	5	
	165,200,260,	V .	3 V/m (rms)	Rear	1		4
	330,430,560,	H/V	Unmodulated	Left 🎺	CR	Α	D.
	715 MHz ± 1,	147	200Hz, 100%	L =		0	5
	920 MHz ± 1	-		Right	4	5	

Note: "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.

TF Playing /REC /Data Transmission / FM Mode

	/%				
Frequency Range	RF Field	R.F.	Azimuth	Perform.	Results
(MHz)	Position	Field Strength	Azimuti	Criteria	Results
80~1000	3		Front		4
1000~6000		3 V/m (rms)	0	05 4	
1800	H/V	AM Modulated	Rear	5	P
2 <mark>6</mark> 00	n/v	1000Hz, 80%	Left	A	J - 3
3500	5	1000012, 8076	-	1	7
5000		4	Right	4 7	

Note: "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.

There was not any unintentional transmission in standby mode.





4.5 EFT/BURST TESTING

4.5.1 TEST SPECIFICATION

200	0/ 2						
Basic Standard:	IEC/EN 61000-4-4						
Required Performance	В						
Test Voltage:	Power Line: 1 kV						
	DC/Signal/ wired network Line: 0.5 KV						
Polarity:	Positive & Negative						
Impulse Frequency:	For xDSL wired network ports: 100 kHz						
	For DC/AC ports: 5 kHz						
Impulse Wave shape :	5/50 ns						
Burst Duration:	15 ms						
Burst Period:	300 ms						
Test Duration:	Not less than 1 min.						
	737						

4.5.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

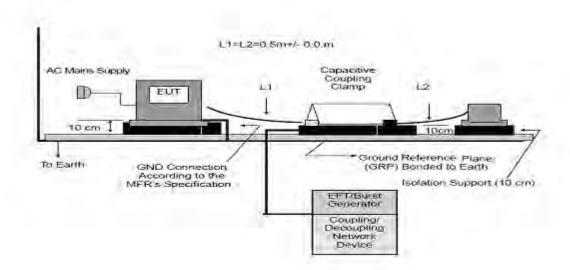
- The length of power cord between the coupling device and the EUT should not exceed 1 meter.
- b. Both positive and negative polarity discharges were applied.
- c. The duration time of each test sequential was 1 minute
- d. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Ground Reference Plane (GRP) Bonded to Earth



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4.5.3 TEST SETUP Nearest Wall >0.5m L ≤ 0.5m EFT/Burst Generator To AC Mains Supply Coupling EUT Decoupling Protective GND letwork Device Ground Reference Plane (GRP) 80 cm To Earth



Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-4 and its cables, were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.



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4.5.4 TEST RESULTS

EUT:	Mobile Phone	Model Name:	A95
Temperature:	22 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	LIAST POWAY.	DC 5V from Adapter AC 230V/50Hz
Test Mode:	Mode 1/3/4/5/6/7/8/9/10	5	W - 2

TEST RESULT

Mode 5/6/7/8/9/10

	Test level (kV)							BT / WIFI /	GPS				
Cou	pling Line	0	.5	,	1	2	2	4	ŀ	GSM / WCDMA / LTE	Observ	Criteri on	Result
		+	ı	+	ı	+	ı	+	ı	Observation	ation		
	L	Ъ.	Ρ	P	Ρ		-		16,	~	d	4	Complies
	N 3	Ρ	Ρ	Ρ	Ρ		19		1	4	5		Complies
	PE			4	14.	1.				_ #		1	7
AC line	L+N	Р	Р	Ρ	Р				D	7		AT.	Complies
	L+PE					7	1.	V	11 .	TT,TR	TR	В	4
4	N+PE					2				15	5		70
3	L+N+PE		1	K						5		4	1
D	C Line 🏑		3			4		100	1		L 5		4
Sig	gnal Line				2	W		2					4 3



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Mode 1/3/4

					100		- //						
		Test level (kV)											
Coupling Line		0	0.5		0.5		1	2	2	4	1	Criterion	Result
		+	-	+	-	+	-	+	-				
5	Los	Р	Р	Р	Р		1			AT.	Complies		
	L NS	Р	Р	Р	8				-	-5"	Complies		
6	PE		to	1				4	9		* 5		
AC line	L+N_	P	Р	Р	Р		*	1			Complies		
	L+PE				¥	5				A B			
4	N+PE			3	7			Q		5	0		
3	L+N+PE	L						1			d 5		
DC	Line 🙏	7				No.				x 5			
Signa	al Line			0	,	1.		-	3		مله		

Note:

- 1)There was not any unintentional transmission in standby mode
- 2) In the table: 'P' represents 'PASS'; 'F' represents 'FAIL'.
- 3) There was not any unintentional transmission in standby mode.



4.6 SURGE TESTING

4.6.1 TEST SPECIFICATION

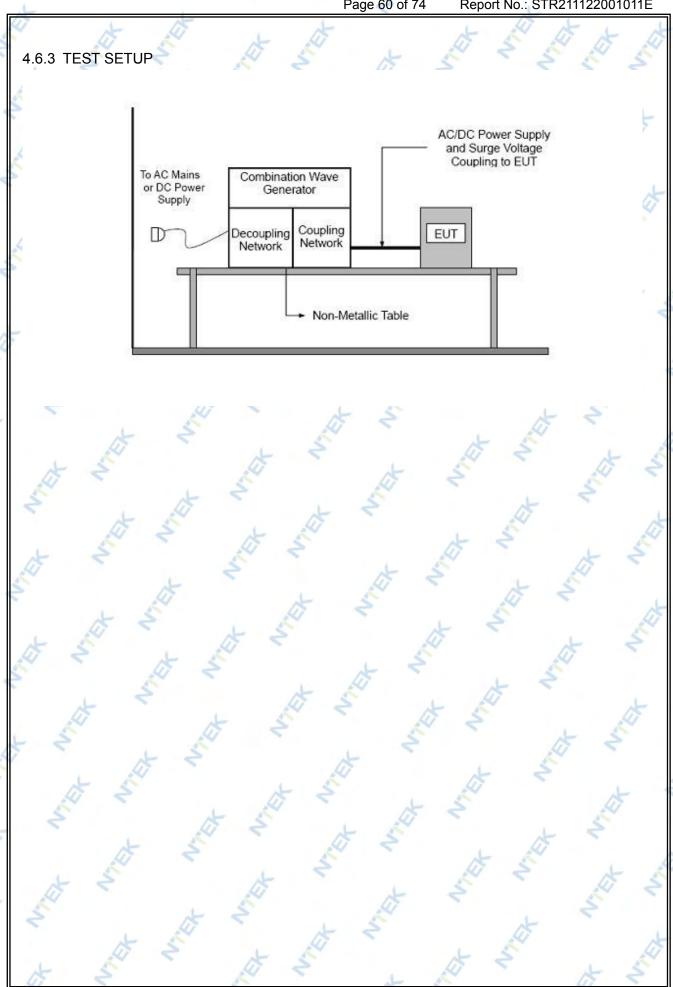
Basic Standard:	IEC/EN 61000-4-5
Required Performance	В
Wave-Shape:	Combination Wave
	1.2 / 50 us Open Circuit Voltage
4	8 / 20 us Short Circuit Current
Test Voltage:	Power Line:0.5 kV, 1 kV, 2 kV
Surge Input / Output:	L-N, L-PE, N-PE
Generator Source:	2 ohm between networks
Impedance:	12 ohm between network and ground
Polarity:	Positive / Negative
Phase Angle:	0 / 90 / 180 / 270
Pulse Repetition Rate:	1 time / min. (maximum)
Number of Tests:	5 positive and 5 negative at selected points

4.6.2 TEST PROCEDURE

- a. For EUT power supply:
 - The surge is to be applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks shall be 2meters in length (or shorter).
- b. For test applied to unshielded unsymmetrically operated interconnection lines of EUT: The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).
- c. For test applied to unshielded symmetrically operated interconnection /telecommunication lines of EUT:
 - The surge is applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor cannot be specified. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).
- d. For the actual test configuration, please refer to the related Item -EUT Test Photos.



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4.6.4 TEST RESULTS

EUT:	Mobile Phone	Model Name:	A95
Temperature:	22℃	Relative Humidity:	53%
Pressure:	1010 hPa	LIEST POWER.	DC 5V from Adapter AC 230V/50Hz
Test Mode:	Mode 1/3/4/5/6/7/8/9/10	- 5	47 -

TEST RESULT

Mode 5/6/7/8/9/10

-	9	0101110										/			
						Τe	est le	evel				BT / WIFI / GSM /	0.00		
	Со	upling L	ine	0.5	kV	11	۲V	2k	V	4k	V	WCDMA	GPS Observati		
		. 0		+	1	+	-	+	ı	+	ı	/ LTE Observati on	on		
		大	0°	Р	Р	Р	Р	N	h .	V	.A.		1		
	1	L-N	90°	Р	Р	Р	P	Z				4	-		Complies
	-	L-IN	180°	Р	Û,	Р	P				1			at	Compiles
		2	270°	Ρ	Ρ	Р	Р	4		3			A	5	
	水	- 5					2	11				t	5		A.
	AC	L-PE			J	4	10					TT,TR	TR	АВ	2
	line	L-FE	大	N. C.						10	>	11,110	IK	A B	/
	-	1	>	1			12		3//	1			of s		
4	45					A.	A					大.	5		
00		N-PE		6					7	1		1		0 >	
		IN-F L				ų.		4	2,				1 S		D
	t	5		-		2		V				1	Ø.	A	. 2
	7	DC Line	9	1	V	1						4 4		5	
	S	ignal Lir	ne 🝣						4	-	7/		L 15		-1-





Mode 1/3/4

4						Test	level					
Co	upling Line	•	0.5	kV	1 I	۲V	2	ĸ٧	4 I	kV	Criterion	Result
			+	-	+	-	+	-	+	_		
5		0°	Р	Р	Р	Р	A		1	<	x	W 5
	L-N	90°	Р	Р	P	Р	2				E .	Complies
A		180°	Р	P	Р	Ρ			to			Compileo
* 5	4	270°	Р	Р	Р	Р		7/	7.		4	7 7
	47	-			_	1					4 5	
AC line	L-PE			A		7			×	1	В	x
14		1		7				K	~			+ #
~	4	5				1					. 1	7 7
4	45			4		1				D	4	
S. A.	N-PE		4	W				1	4	1		4
4		45	~			1	3	7			4	5
	4	2			A	V					. N	7
4 4	DC Line		13		7					W	7	At 1
S	ignal Line		5				4	1	V	3		1

Note:

- 1) There was not any unintentional transmission in standby mode
- 2) In the table: 'P' represents 'PASS'; 'F' represents 'FAIL'.
- 3) There was not any unintentional transmission in standby mode.



4.7 INJECTION CURRENT TESTING

4.7.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-6
Required Performance	A
Frequency Range:	0.15 MHz - 80 MHz
Field Strength:	3 Vr.m.s.
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Dwell Time:	at least 3 seconds

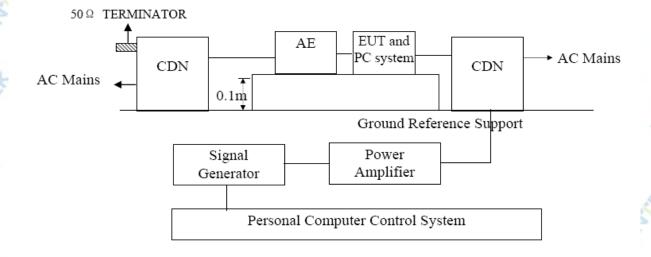
4.7.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

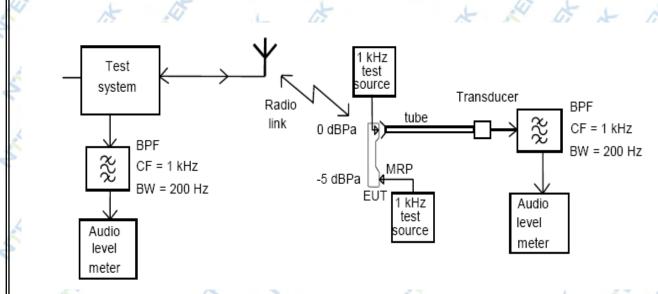
- a. The field strength level was 3V.
- b. The frequency range is swept from 150 KHz to 80 MHz, with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5 x 10⁻³ decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- c. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- d. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.7.3 TEST SETUP



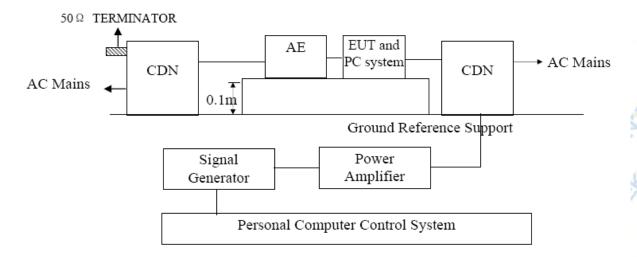






□ General Communication

NTEK 北测



For the actual test configuration, please refer to the related Item –EUT Test Photos.

NOTE:

FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.





4.7.4 TEST RESULTS

618				
EUT:	Mobile Phone	4	Model Name:	A95
Temperature:	22℃	7.	Relative Humidity:	53%
Pressure:	1010 hPa		LIAST POWAR.	DC 5V from Adapter AC 230V/50Hz
Test Mode:	Mode1/3/4/5/6/7/8/9/10	4	5	10 4

TEST RESULT

LTE FDD B1 / B3 / B7 / B8 / B20 / B40 Link

Test Ports (Mode)	Freq. Range (MHz)	Field Strength	Observation	Results
Input / Output AC. Power Port	0.1580	3V(rms)	CT, CR	F PS
Input / Output DC. Power Port	0.15 80	AM Modulated 1000Hz, 80%	N/A	N/A
Signal Line	0.15 80	LET .	N/A	N/A

Note: 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

GSM 900 / 1800 / WCDMA 2100 / 900 Uplink and Downlink

AZT A		T			AL .
Test Ports (Mode)	Freq. Range (MHz)	Field Strength	Observation	Perform. Criteria	Results
Input / Output AC. Power Port	0.1580	3V(rms)	CT, CR	A	P
Input / Output DC. Power Port	0.15 80	AM Modulated 1000Hz, 80%	N/A	N/A	N/A
Signal Line	0.15 80	AT S	N/A	N/A	N/A

EUT is used for this calibration, the output of the audio source was adjusted to achieve a reference Level equivalent to a SPL of –5 dB Pa at 1 kHz at the Mouth Reference Point (MRP), the reading of the audio level meter, which was connected to the output of the communication tester, was recorded as a reference level. During the test, the uplink speech output level was monitored, it was confirmed to be at least 35 dB less than the previously- recorded reference level.





GPRS / EGPRS / HSDPA / HSUPA Uplink and Downlink

Test Ports (Mode)	Freq. Range (MHz)	Field Strength	Observation	Perform. Criteria	Results
Input / Output AC. Power Port	0.1580	3V(rms)	CT, CR	A A	PA
Input / Output DC. Power Port	0.15 80	AM Modulated 1000Hz, 80%	N/A	N/A	N/A
Signal Line	0.15 80	5	N/A	N/A	N/A

Note: During the test, the Maximum Bit Error Ratio was less than 1×10⁻³.

During the test, the Maximum Block Error Ratio was less than 1×10⁻².

BT / WIFI link

Test Ports (Mode)	Freq. Range (MHz)	Field Strength	Observation	Perform. Criteria	Results
Input / Output AC. Power Port	0.1580	3V(rms)	CT, CR	Α	-P
Input / Output DC. Power Port	0.15 80	AM Modulated 1000Hz, 80%	N/A	N/A	N/A
Signal Line	0.15 80	A	N/A	N/A	N/A

Note: "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.

GPS Receiver Mode Link

Test Ports (Mode)	Freq. Range (MHz)	Field Strength	Perform. Criteria	Results
Input / Output AC. Power Port	0.15 80	3V(rms)	A	P
Input / Output DC. Power Port	0.15 80	AM Modulated 1000Hz, 80%	N/A	N/A
Signal Line	0.15 80	200	N/A	N/A

Note: "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.



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REC / TF Playing / FM Mode

		7.7		
Test Ports (Mode)	Freq. Range (MHz)	Field Strength	Perform. Criteria	Results
Input / Output AC. Power Port	0.1580	3V(rms)	A A	ъ
Input / Output DC. Power Port	0.15 80	AM Modulated	N/A	N/A
Signal Line	0.15 80	1000112, 0070	N/A	N/A

Note: "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.

Note:

- 1)There was not any unintentional transmission in standby mode
- 2) In the table: 'P' represents 'PASS'; 'F' represents 'FAIL'.
- 3) There was not any unintentional transmission in standby mode.



4.8 VOLTAGE INTERRUPTION/DIPS TESTING

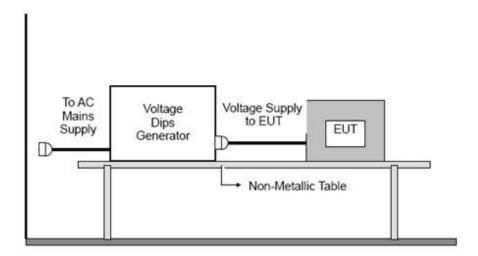
4.8.1 TEST SPECIFICATION

01 = 01
IEC/EN 61000-4-11
100% reduction, 0.5 Cycle
100% reduction, 1.0 Cycle
30% reduction, 25 Cycles
30% reduction, 0.5 Cycle
100% reduction, 250 Cycles
Minimum three test events in sequence
Minimum ten seconds
0°/45°/90°/135°/180°/225°/270°/315°/360°
3 times

4.8.2 TEST PROCEDURE

The EUT shall be tested for each selected combination of test levels and duration with a sequence of three dips/interruptions with intervals of 10 s minimum (between each test event). Each representative mode of operation shall be tested. Abrupt changes in supply voltage shall occur at zero crossings of the voltage waveform.

4.8.3 TEST SETUP



For the actual test configuration, please refer to the related Item -EUT Test Photos.





4.8.4 TEST RESULTS

EUT:	Mobile Phone	Model Name:	A95
Temperature:	22℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Power:	DC 5V from Adapter AC 230V/50Hz
Test Mode:	Mode 1/3/4/5/6/7/8/9/10	. 5	M S

TEST RESULT

Mode 5/6/7/8/9/10

		/%			
		BT / WIFI /			
Voltage	Duration	GSM /	GPS	Perform	Results
Reduction	(ms)	WCDMA / LTE	Observation	Criteria	Results
		Observation			
Voltage dip: 0%	10	TT, TR	TR 💍	В	Р
Voltage dip: 0%	20 🕢	TT, TR	TR.	В	A.
Voltage dip: 70%	10	TT, TR	TR	C	P
Voltage dip: 70%	500	TT, TR	TR 🙏	C	Р
Voltage interruptions: 0%	5000	TT, TR	TR	С	P

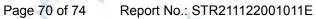
Mode 1/3/4

		227	2.2		
Voltage		Duration	Duration Perform		
Reduction		(ms)	Criteria	Results	
~	Voltage dip: 0%	10	В	₹ [™] P	
	Voltage dip: 0%	20	В	Р 4	
×	Voltage dip: 70%	10	С	A P	
	Voltage dip: 70%	500	C	P	
	Voltage interruptions: 0%	5000	C	P	

Note:

- 1) There was not any unintentional transmission in standby mode
- 2) In the table: 'P' represents 'PASS'; 'F' represents 'FAIL'.
- 3) There was not any unintentional transmission in standby mode.



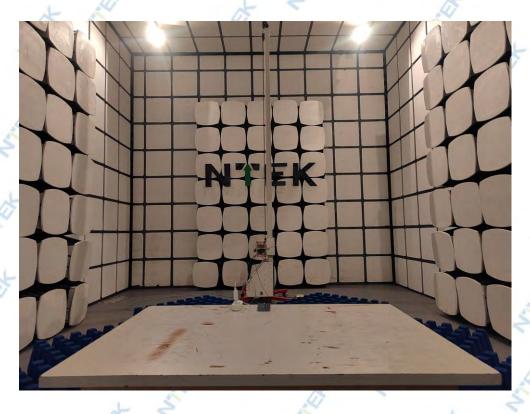




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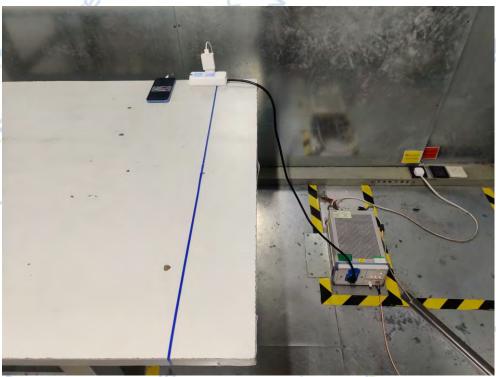












Flick Measurement Photo













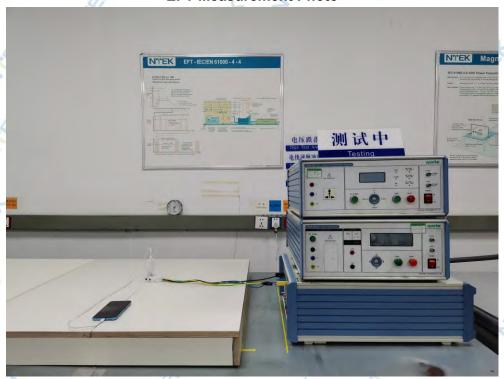
RS Measurement Photo







EFT Measurement Photo



SURGE Measurement Photo





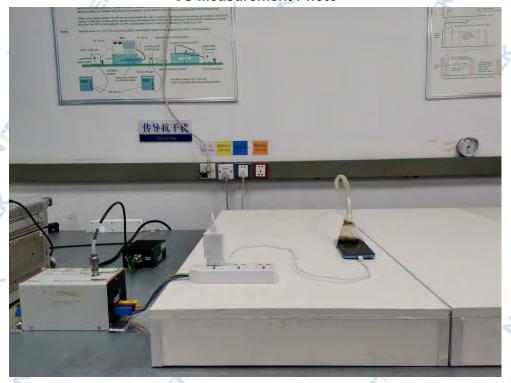








CS Measurement Photo



END OF REPORT