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) (Draft) ETSI EN 301 489-52 V1.1.2 (2020-12) EN 55032:2015+A11:2020 EN 55035:2017+A11:2020 EN IEC 61000-3-2:2019 EN61000-3-3:2013+A1:2019

> Product : 4G Tablet Trade Mark : Blackview Model Name : Tab 6 Family Model : N/A Report No. : STR210908002011E

Prepared for

DOKE COMMUNICATION (HK) LIMITED. RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HONG KONG CHINA.

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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TEST RESULT CERTIFICATION

2	Applicant's Name:	DOKE COMMUNICATION (HK) LIMITED.			
5	Address:	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HONG KONG CHINA.			
	Manufacturer's Name:	Shenzhen DOKE Electronic Co.,Ltd.			
Ś	Address	801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China.			
	Product description				
	Product name:	4G Tablet			
4	Trade Mark	Blackview			
	Model Name:	Tab 6 🙏 🥂 🕺			
	Family Model:	N/A 🦉 🔰 🌈 🍝 🍌			
	E IT	ETSI EN 301 489-1 V2.2.3 (2019-11)			
-	5 5	ETSI EN 301 489-3 V2.1.1 (2019-03)			

Standards

ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-3 V2.1.1 (2019-03) ETSI EN 301 489-19 V2.1.1 (2019-04) (Draft) ETSI EN 301 489-52 V1.1.2 (2020-12) 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. This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personnel only, and shall be noted in the revision of the document.

Date of Test

Date (s) of performance of tests.....: 08 Sep. 2021 ~ 08 Oct. 2021

Testing Engineer

Allen. Huang

(Allen Huang)

Authorized Signatory :

(Alex Li)

N2017.03.22.0322.V.1.0

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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) (Draft) ETSI EN 301 489-52 V1.1.2 (2020-12) 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		Limi	t Judgme	ent	Remark
N.N.	Cond	Conducted Emission On AC And Telecom Port 150kHz to 30MHz		Class	B PASS	;	E.
to the		sturbance Voltage at The Anter Ferminals (30MHz To 2150MH:		AL.	. N/A		4
EN 55032:2015+A11:20 20	Wanteo	d signal and disturbance voltag RF output terminals (30MHz To 2150MHz)	e at the		N/A	N	
the way		Radiated Emission 30MHz to 1000MHz	A.	Class	B PASS	174	* .
the	La La	Radiated Emission 1GHz to 6GHz		Class	B PASS		
EN IEC 61000-3-2:2019		Harmonic Current Emission	The	Class	A N/A	4	NOTE (1
EN61000-3-3:2013+ A1:2019	d'	Voltage Fluctuations & Flicker			PASS	5	
		EMC Immunity					
Section EN 55035:2017+A1 ²	1:2020	Test Item	Perforn Crite		Judgment	R	Remark
EN 61000-4-2:20	009	Electrostatic Discharge	B	Vre	PASS		A
EN 61000-4-3:20 A1:2008+A2:20		RF electromagnetic field	А		PASS		S
EN 61000-4-4:20)12	Fast transients	В	A	PASS		t
EN 61000-4-5:20 A1:2017	14+	Surges	В	~ •	PASS	N	2
EN 61000-4-6:20)14	Continuous radio frequency disturbances or Injected Current	А	1st	PASS	4	ð.
EN 61000-4-8:20	010	Power Frequency Magnetic Field	А		N/A	N	OTE (3)
EN 61000-4-11:2	004	Volt. Interruptions Volt. Dips	B / C NOTE		PASS	1	1

EMC Emission

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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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2 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

The Certificate Registration Number is L5516
The Certificate Registration Number is CN0074
Test Firm Registration Number: 463705 Designation Number: CN1184
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

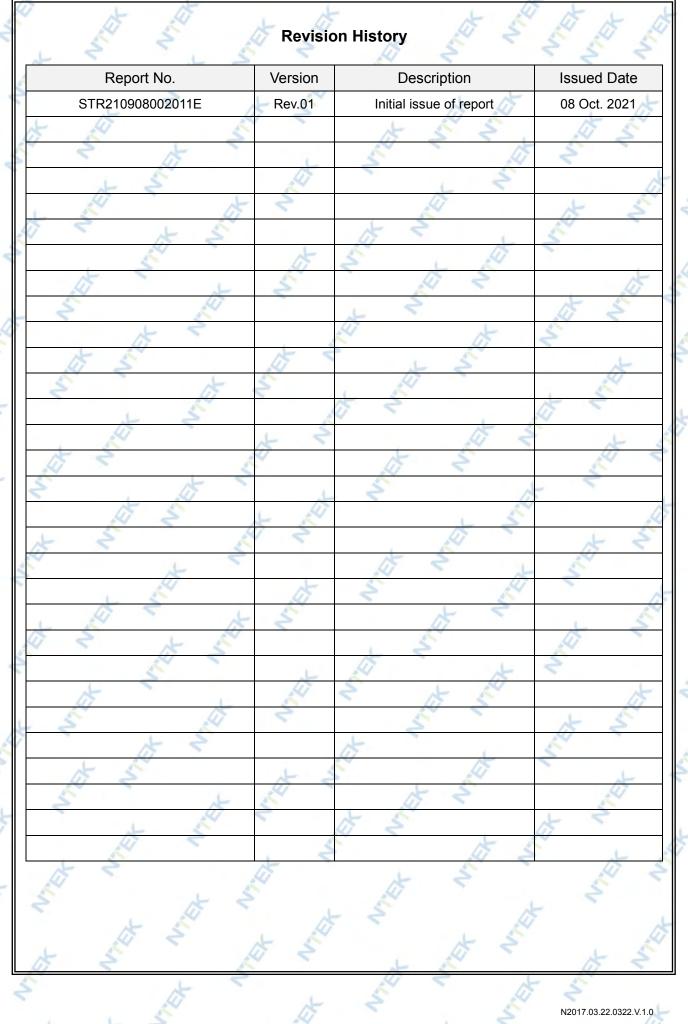
3 MEASUREMENT UNCERTAINTY

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 **k=2**, providing a level of confidence of approximately **95** %.

(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

		6	
Test Item	Measurement Frequency Range	К	U(dB)
AC Mains Conducted Emission	0.009kHz ~ 0.15MHz	2	2.66
AC Mains Conducted Emission	0.15MH ~ 30MHz	2	2.80
Telecom Conducted Emission (Cat 3)	0.15MHz ~ 30MHz	2	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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1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	4G Tablet
Trade Mark	Blackview
Model Name	Tab 6
Family Model	N/A
Model Difference	N/A 🗧 🖉 🗡 🖉
Frequency Bands:	 ☑ BT(1Mbps/2 Mbps)/BLE: GFSK ☑ 2.4G WIFI: 802.11b/g/n(20MHz): 2412-2472MHz 802.11n(40MHz):2422-2462MHz ☑ 5G WIFI:802.11a/n(20/40)/ac(20/40/80): 5180MHz-5230MHz(40MHz) 5210MHz(80MHz); ☑ 5.8GWIFI: 802.11a/ n(20/40)/ac(20/40/80) 5745-5825 MHz(20MHz) 5755-5795 MHz(40MHz) 5755-5795 MHz(40MHz) 5775MHz(80MHz) ☑ GSM/GPRS/EGPRS 1800: 1710-1785MHz(TX) 925-960MHz (Rx) ☑ GSM/GPRS/EGPRS 1800: 1710-1785MHz(TX) 1805-41880MHz(Rx) ☑ WCDMA Band I: 1920 MHz ~1980 MHz(TX); 2110 MHz~2170 MHz(Rx) ☑ WCDMA Band II: 1920 MHz ~1980 MHz(TX); 925-960MHz(Rx) ☑ WCDMA Band II: 1920 MHz ~1980 MHz(TX); 2110 MHz~2170 MHz(Rx) ☑ WCDMA Band III: 1920 MHz ~1980 MHz(TX); 205-960MHz(Rx) ☑ E-UTRA FDD Band I, III, VII, VIII, XX FDD Band I, III, VII, VIII, XX FDD Band III: Uplink: 1920 MHz to 2170 MHz FDD Band III: Uplink: 1920 MHz to 1980MHz Downlink: 2110 MHz to 1785 MHz Downlink: 1805 MHz to 1880 MHz FDD Band VIII: Uplink: 2500 MHz to 2570 MHz FDD Band VIII: Uplink: 802 MHz to 2690 MHz FDD Band VIII: Uplink: 822 MHz to 862 MHz Downlink: 925 MHz to 960 MHz FDD Band XX: Uplink: 832 MHz to 862 MHz FDD Band XX: Uplink: 791 MHz – 821 MHz ☑ GPS: 1.57542GHz ☑ FM Receiver: 87.5 MHz to 108 MHz ☑ MFC: 13.56MHz ☑ WPT: 110-205KHz

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A A	
Modulation Mode:	 ➢BT(1Mbps)/BLE: GFSK ➢BT EDR(2Mbps): ∏/4-DQPSK ➢BT EDR(3Mbps): 8-DPSK ➢BLE(2M): GFSK ➢IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK) ➢IEEE 802.11g/n (HT20/HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK) ➢IEEE802.11a: OFDM (BPSK / QPSK / 16QAM) ➢IEEE802.11a: OFDM (QPSK/BPSK/16QAM/64QAM) ➢802.11ac:OFDM (QPSK/BPSK/16QAM/64QAM/256QAM) ➢GSM/GPRS/EGPRS: GMSK, 8PSK ➢WCDMA(Voice /HSDPA/HSUPA): QPSK ➢LTE: QPSK, 16QAM △GPS: BPSK modulation ➢FM Receiver: FM ➢NFC: ASK
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 3.8V from battery or DC 5V from Adapter.
Adapter	Model: HJ-0501000N2-EU Input: 100-240V~50/60Hz 0.15A Output: 5.0V1.0A 5.0W
Battery	DC 3.8V, 5580mAh
Connecting I/O Port(s)	Please refer to the User's Manual
Antenna:	BT/WIFI/GPS: PIFA Antenna; GSM/WCDMA/LTE: PIFA Antenna; FM: Use earphone as Antenna;
Hard Ware Version	S866T-T310-V1.0
Soft Ware Version	Tab6_EEA_S886T_V1.0

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1.2 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.

Pretest Mode	Description
Mode 1	TF Playing 🦯 💦
Mode 2	REC
Mode 3	📄 Data transmission 🧄 🍼 🍼
Mode 4	FM(87.6MHz / 98MHz / 107.9MHz)
Mode 5	Wi-Fi 2.4G/ 5.2G/5.8G
Mode 6	GSM / GPRS / EGPRS 900 / 1800
Mode 7	WCDMA / HSDPA / HSUPA B1 / B8
Mode 8	LTE Band 1 / 3 / 7 / 8 / 20
Mode 9	GPS Receiver
	2 2

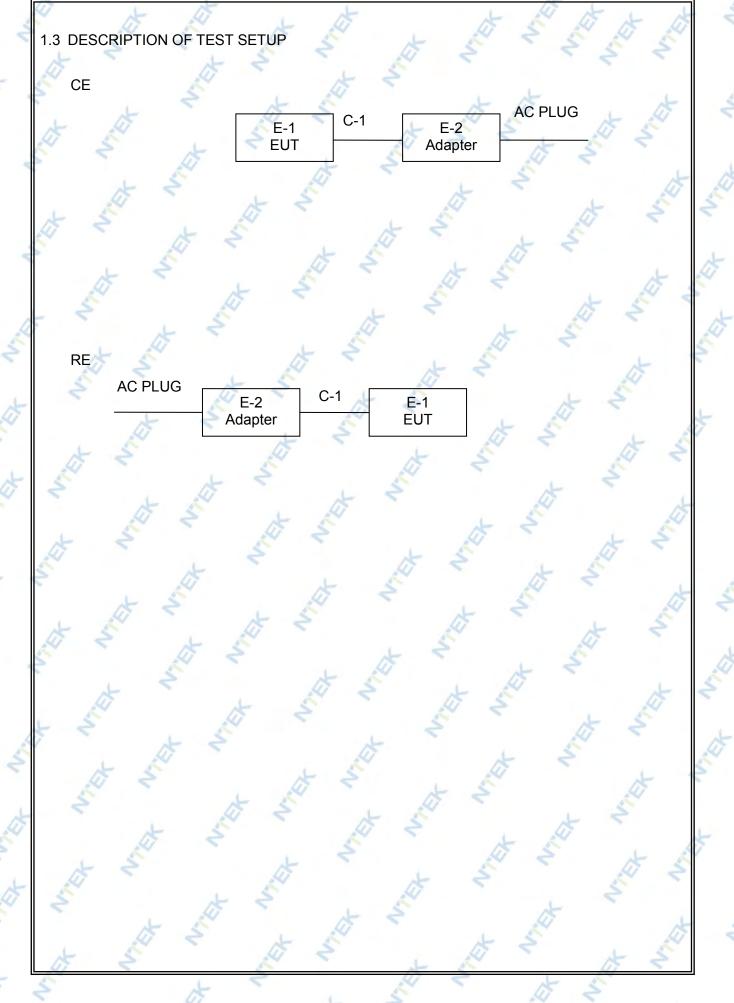
	For Conducted Test	
Final Test Mode	Description	~
Mode 1	TF Playing	

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	For Radiated Test
Final Test Mode	Description
Mode 1	TF Playing
ALL AND	
	For EMS Test
Pretest Mode	Description
Mode 1	TF Playing 🔶 🍣
Mode 2	REC 🥂
Mode 3	Data transmission
Mode 4	FM(87.6MHz / 98MHz / 107.9MHz)
Mode 5	Wi-Fi 2.4G/ 5.2G/5.8G
Mode 6	GSM / GPRS / EGPRS 900 / 1800
Mode 7 🖉	WCDMA / HSDPA / HSUPA B1 / B8
Mode 8	LTE Band 1 / 3 / 7 / 8 / 20
Mode 9	GPS Receiver
S	

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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1.4 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.

				347	
~	Item	Equipment	Model/Type No.	Series No.	Note
	E-1	4G Tablet	Tab 6 🏑	N/A	L EUT
	E-2	Adapter	HJ-0501000N2-EU	N/A	Peripherals
1	0	4	13	A	t
		1 5	The second secon	S	t t
		E.	t t	K	2 4
_	10		12	4 r	
		L.		24	A.
	the second se	STA STA	4	· t	N

_	12				
Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	YES	NO	1.0m <	
t	12	E.	t	2	The second
N. S. S.		13	H	-	12
7	1	~	1	L.	
	A N	t to		+ 5	A
x	1	N		4	1
N.	ł	r	the second	1	77
	4	A	5	4	7

Note:

The support equipment was authorized by Declaration of Confirmation.
 For detachable type I/O cable should be specified the length in cm in [Length] column.

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1	1.5 N	IEASUREMEN		NTS LIST	Å	- A	5 5	A R
	151	CONDUCTED	EMISSION		E	4	1	
100	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
	A1	Test Cable	N/A 🔍	C01	N/A 🙏	Mar. 29, 2021	Mar. 28, 2024	3 years
É	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
1	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
2	7	Unversal radio communication tester	R&S	CMU200	1100.008.0 2	Jul. 01, 2021	Jun. 30, 2022	1 year
	8	Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	Jul. 01, 2021	Jun. 30, 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
	5		5	-	5		×	
	1.5.2	RADIATED TE	ST SITE	, L)			K	Oalibeation
	Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
	<u>~1</u>	Antenna Mast	EM <	SC100_1	N/A	N/A	N/A 📈	N/A
	2	Turn Table	C 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
4	4	50Ω Switch	Anritsu Corp	MP59B	620098370 5	Apr .27, 2021	Apr .26, 2022	1 year
2	5	Spectrum Analyzer	Aglient	E4407B	MY451080 40	Apr .27, 2021	Apr .26, 2022	1 year
	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 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 2	Mar. 29, 2021	Mar. 28, 2022	1 year
	12	Amplifier	EMC	EMC05183 5SE	980246	Jul. 01, 2021	Jun. 30, 2022	1 year

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Ŷ		A	AT .	L 0	5	A	AL	t
1.	5.3	HARMONICS A	ND FILCK	6 E	4	- 14	2 8	9 6
Å	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratior period
5	1	Harmonic & Flicker	EM TEST	DPA500	0303-04	Mar. 29, 2021	Mar. 28, 2022	1 year
4	2	AC Power Source	EM TEST	ACS500	0203-01	Mar. 29, 2021	Mar. 28, 2022	1 year
	3	Unversal radio communication tester	R&S	CMU200	1100.008.0 2	Jul. 01, 2021	Jun. 30, 2022	1 year
4	₹4	Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	Jul. 01, 2021	Jun. 30, 2022	1 year
		A	A	5		A TH		A
1	.5.4	ESD Kind of	Manufanturan	Trues No.	Carial Na			Calibratio
	Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	period
	1	Unversal radio communication tester	R&S	CMU200	1100.008.0 2	Jul. 01, 2021	Jun. 30, 2022	1 year
ľ		Wideband	K		5 2		E.	2
	2	Radio Communication	R&S	CMW500	148500	Jul. 01, 2021	Jun. 30, 2022	1 year
	A	Tester Specifications	5	4	A	SA .		4
4	3	Electrostatic Discharge Generator	Lioncel	ESD-203B	ESD203B0 150402	Jul. 01, 2021	Jun. 30, 2022	1 year
1.	.5.5 I	R S	S S	4 5	at	E.	A	7 5
٩Ľ	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio period
4	1	Unversal radio communication tester	R&S	CMU200	1100.008.0 2	Jul. 01, 2021	Jun. 30, 2022	1 year
		Wideband Radio	5 2		the state	V	1 5	
	2	Communication Tester	R&S	CMW500	148500	Jul. 01, 2021	Jun. 30, 2022	1 year
10.	3	Specifications Audio Power	Brüel & Kjær	4602B	2185667	Apr 27 2021	Apr .26, 2022	1 voor
-	3 4	Amplifier Mouth	Brüel & Kjær	2669	2165007	Apr .27, 2021 Apr .27, 2021	Apr .26, 2022	1 year
-	5	Simulator Sound	Brüel & Kjær	4185	2143205	Apr .27, 2021 Apr .27, 2021	Apr .26, 2022	1 year
	6	Calibrator 1/2" Pressure- field	Brüel & Kjær	735	2641678	Apr .27, 2021	Apr .26, 2022	1 year
	7	Microphone Telephone Test Head	Brüel & Kjær	4185	2631728	Apr .27, 2021	Apr .26, 2022	1 year
ľ	8	Audio Analyzer	R&S	UPV 🧷	100419	Apr .27, 2021	Apr .26, 2022	1 year
L		A	2	A S		A	5	

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		45	H	A Q	-	15	E A	A Q
E.	9	Ear Simulator for Telephonometr y	Brüel & Kjær	4185	2553612	Apr .27, 2021	Apr .26, 2022	1 year
14	10	Bilog Antenna	ETS	3142E(Fequ ency range 30MHz to 6 GHz)	00214344	Mar. 29, 2021	Mar. 28, 2022	1 year
	11	Broadband Amplifier	AR	60S1G6	0350414	Mar. 25, 2021	Mar. 24, 2022	1 year
4	12	PSG Analog Signal Generator	Agilent	E8257D	MY511101 12	Jul. 01, 2021	Jun. 30, 2022	1 year
•	13	Power Amplifier	rflight	NTWPA-00 810200	17063153	Jul. 01, 2021	Jun. 30, 2022	1 year
	14	Power Amplifier	AR	25S1G4A	308598	Jul. 01, 2021	Jun. 30, 2022	1 year
-	15	Power Meter	Agilent	E4419B	MY451025 38	Jul. 01, 2021	Jun. 30, 2022	1 year
	16	Power Sensor	Agilent	E9301A	MY414956 44	Jul. 01, 2021	Jun. 30, 2022	1 year
	17	Power Sensor	Agilent	E9301A	US392121 48	Jul. 01, 2021	Jun. 30, 2022	1 year

1.5.6 SURGE, EFT/BURST, VOLTAGE INTERRUPTION/DIPS

1.0.0							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
A	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
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 2	Jul. 01, 2021	Jun. 30, 2022	1 year
5	Wideband Radio Communication	R&S	CMW500	148500	Jul. 01, 2021	Jun. 30, 2022	1 year
	Tester Specifications						, your
	Tester 🏼		AT.	N.N.		5	

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1

r 7			A A		AT .	5 14	to 1
.5.7 Item	INJECTION CL Kind of	Manufacturer	Type No.	Serial No	Last calibration	Calibrated until	Calibration
item	Equipment	Manulacturer	туре но.	Senai No.			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	Nov.10, 2020	Nov. 09, 2021	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	Nov.10, 2020	Nov. 09, 2021	1 year
6	Audio Power Amplifier	Brüel & Kjær	4602B	21 <mark>8</mark> 5667	Nov.10, 2020	Nov. 09, 2021	1 year
7	Mouth Simulator	Brüel & Kjær	2669	2143265	Nov.10, 2020	Nov. 09, 2021	1 year
8	Sound Calibrator	Brüel & Kjær	4185	2194825	Nov.10, 2020	Nov. 09, 2021	1 year
9	1/2" Pressure- field Microphone	Brüel & Kjær	735	2641678	Nov.10, 2020	Nov. 09, 2021	1 year
10	Audio Analyzer	R&S	UPV	100419	Nov.10, 2020	Nov. 09, 2021	1 year
11	Ear Simulator for Telephonometr y	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 2	Jul. 01, 2021	Jun. 30, 2022	1 year
14	Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	Jul. 01, 2021	Jun. 30, 2022	1 year
15	Coupling and Decoupling Network	TESEQ	CDN M016	38722	Apr .27, 2021	Apr .26, 2022	1 year

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2. EMC EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT 2.1.1 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 mai	ns 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	6 M N I	Ouesi Deek / 0 kHz	79
	0,5 – 30	AMN	Quasi Peak / 9 kHz -	73
A8.2	0,15 - 0,5	AMN		66
	0,5 - 30	AWIN	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 main	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
	0,5 – 5	AMN	Average / 9 kHz	46
	5 – 30			50

Apply A9.1 and A9.2 across the entire frequency range.

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

2.1.2 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		Oursei Bask (Olide	97 – 87		
	0,5 – 30	AAN	Quasi Peak / 9 kHz	87		
	0,15 – 0,5	A A NI		84 – 74	n/a	
	0,5 – 30	AAN	Average / 9 kHz	74		
A10.2	0,15 – 0,5	CVP	Oursei Bask (Oldus	97 – 87	53 – 43	
	0,5 – 30	and current probe	Quasi Peak / 9 kHz	87	43	
	0,15 – 0,5	CVP		84 – 74	40 – 30	
	0,5 – 30	and current probe	Average / 9 kHz	74	30	
A10.3	0,15 – 0,5	Current Probe	Quasi Peak / 9 kHz		53 – 43	
	0,5 – 30	Current Probe	Quasi Peak / 9 KHZ		43	
	0,15 – 0,5	Oursent Droke		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.

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Table A.12 – Requirements for conducted differential voltage emis	sions
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 lim dB(μV) 75	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			n/a	54	

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. a)

Tuner units (not the LNB) for satellite signal reception. b)

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 e) 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.

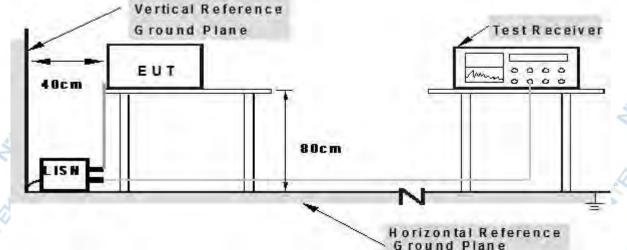
The following table is the setting of the receiver	AT + F
Receiver Parameters	Setting
Attenuation	<10 dB
Start Frequency	0.15 MHz 🖉 🦿
Stop Frequency	30 MHz 🔊
IF Bandwidth	9 kHz

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2.1.3 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.

2.1.4 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

2.1.5 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.

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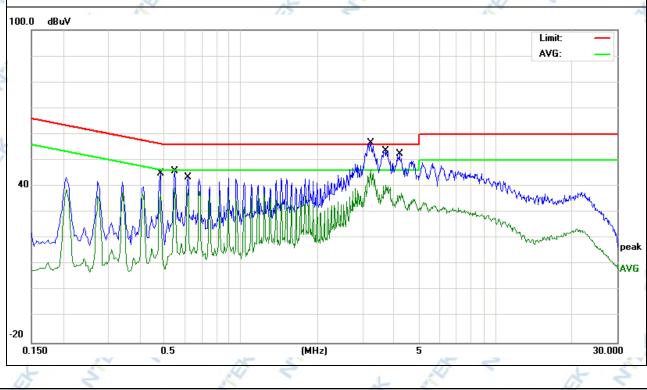
2.1.6 TEST RESULTS

H	(I)	LS	
EUT:	4G Tablet	Model Name:	Tab 6
Temperature:	24.7°C	Relative Humidity:	53%
Pressure:	1010hPa	Phase:	2 1 2 2
Test Voltage:	DC 5V from Adapter AC 230V/50Hz	Test Mode:	Mode 1

	A	7 7		SC	4	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.4820	35.22	9.64	44.86	56.30	-11.44	QP
0.4820	27.29	9.64	36.93 🏑	46.30	-9.37	AVG
0.5500	36.26	9.66	45.92	56.00	-10.08	QP
0.5500	29.46	9.66	39.12	46.00	-6.88	AVG
0.6180	33.66	9.70	43.36	56.00	-12.64	QP
0.6180	29.18	9.70	38.88 🖉	46.00	-7.12	AVG
3.2260	44.79	9.71	54.50	56.00	-1.50	R QP
3.2260	35.59	9.71	45.30	46.00	-0.70	AVG
3.7060	41.22	9.68	50.90	56.00	-5.10	QP
3.7060	30.79	9.68	40.47	46.00	-5.53	AVG
4.1898	42.75	9.67	52.42	56.00	-3.58	QP
4.1898	27.92	9.67	37.59	46.00	<u></u> -8.41	AVG 📈

Remark:

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



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_111.	4G Tablet	t.	<u>A</u>	Model Nam	<u></u>	Tab	6	A
EUT: Comporaturo:		<u>s</u>	2	Relative Hu		50%		5 3
Femperature: Pressure:	1010hPa		×	Phase:	maity.	50% N	0	
	DC 5V from Adap	ter AC	47			1	*	
Fest Voltage:	230V/50Hz	4 4		Test Mode:		Moc	le 1	* *
5	t v			AT I	2		1 5	~ ~
Frequency	Meter Reading	Factor	Emis	sion Level	Limit	s	Margin	Remark
(MHz) 🏷	(dBµV)	(dB)	((dBµV)	(dBµ∖	/)	(dB)	Remark
0.2060	34.08	9.63		43.71	63.36	6	-19.65	QP
0.2060	25.26	9.63		34.89	53.36	6	-18.47	AVG
0.4100	33.70	9.71 🖉	. v	43.41	57.65	5.4	-14.24	QP
0.4100	23.80	9.71		33.51	7.65	5	-14.14	AVG
0.8900	34.50 🖉	9.70		44.20	56.00)	-11.80	QP
0.8900	24.31	9.70	4	34.01	46.00		-11.99	AVG
1.3060	32.83	9.72	~	42.55	56.00	5	-13.45	QP
1.3060	22.15	9.72	-	31.87 🦙	46.00)	-14.13	AVG
2.9460	41.69	9.72	2	51.41	56.00)	-4.59	QP
2.9460	28.31	9.72	29	38.03	46.00)	-7.97	AVG
3.2260	41.27	9.73	2	51.00	56.00)	-5.00	QP
3.2260	31.59	9.73		41.32	46.00)	-4.68	AVG
00.0 dBuV	sertion Loss + Cabl	e Loss.					Limit:	
40					m m mm mm	and the second	WWWWWWWWW	Month Marrier
			WWW	Maria.			When have a second	pr A'

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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2.2 RADIATED EMISSION MEASUREMENT

2.2.1 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)
oluuse	MHz	Distance m	Detector type/ bandwidth	OATS/SAC (see Table A.1)
A2.1	30 – 230	10		40
	230 – 1 000	10	Quasi Peak /	47
A2.2	30 – 230	3	120 kHz	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	Ме	asurement	Class B limits dB(µV/m)
clause	MHz	Distance m	Detector type/ bandwidth	OATS/SAC (see Table A.1)
A4.1	30 – 230	10		30
	230 – 1 000	10	Quasi Peak /	37
A4.2	30 – 230	<u>,</u>	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

	able	Frequency range	Me	asurement	Class B lim	it dB(μV/m)
cia	ause	MHz	Distance			Harmonics
			m	bandwidth	OATS/SAC (see Table A.1)	OATS/SAC (see Table A.1)
A	6.1	30 – 230				42
		230 - 300	10		50	42
		300 – 1 000		Quasi peak/		46
A	6.2	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.

2.2.2 LIMITS OF RADIATED EMISSION MEASUREMENT

(Above 1000MHz)

Table A.3 – Requirements for radiated emissions at frequencies above 1 GHzfor Class A equipment

Table clause	Frequency range	Me	easurement	Class A limits dB(µV/m)
oradoo	MHz	Distance m	Detector type/ bandwidth	FSOATS (see Table A.1)
A3.1	1 000 – 3 000		Average /	56
	3 000 - 6 000	2	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			Class B limits dB(µV/m)
onucoo	MHz	Distance m	Detector type/ bandwidth	FSOATS (see Table A.1)
A5.1	1 000 – 3 000		Average/	50
	3 000 – 6 000	2	1 MHz	54
A5.2	1 000 – 3 000	3	Peak/	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.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBµV/m)=20log Emission level (uV/m).

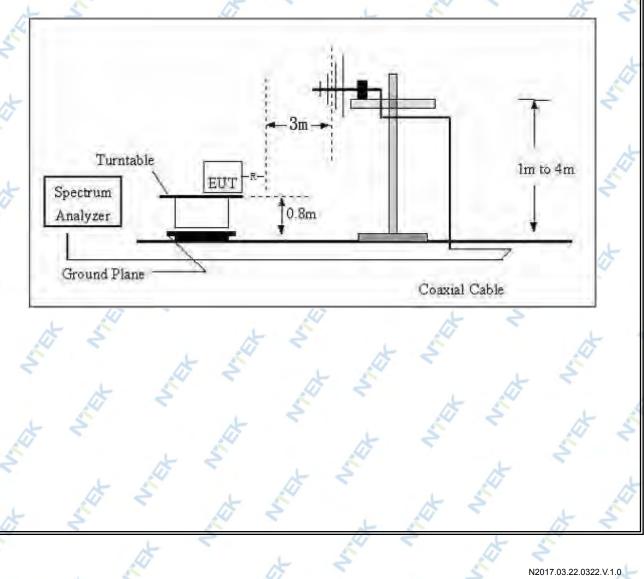
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2.2.3 TEST PROCEDURE

- 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.

2.2.4 TEST SETUP

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



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

2.2.5 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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EUT: Temperature:	4G Tablet 23.9 ℃	t.	2	Model Nar Relative H		Tab (52%		6.4
-	1010 hPa	<u> </u>	-	Polarizatio		S	ontal 🔨	5 5
Pressure:	DC 5V from Ada	pter AC		Test Mode		Mode	$\overline{C} \geq \overline{C}$	
Test Power:	230V/50Hz		Ũ	Test Mode		INIOU	3 1	
Frequency	Motor Pooding	Factor	Emissi	on Level	Limit		Margin	1 8
(MHz)	Meter Reading	(dB)		JV/m)	(dBµV	4	Margin (dB)	Remar
30.6377	(dBµV) 6.40	24.58).98	40.0		-9.02	QP
112.5242	7.61	17.45		5.06	40.0	5	-14.94	QP
151.0664	6.45	18.36		1.81	40.0		-15.19	QP
609.9215	6.34	28.44	1	4.78	47.0	~	-12.22	QP
696.8567	7.05	29.64	5	6.69	47.0		-10.31	QP
881.4067	7.24	32.03		9.27	47.0	0	-7.73	QP
\$							4 5	6
32 1	Marken and Marken Market	2 Minimut Minimut Minimut	3 Innihallyhundu	The part of the part of the	Whatter and want	WMU	4 5 ,	6 ,,hu,hu,hu,hu,hu,hu,hu,hu,hu,hu,hu,hu,hu
-8 30.000 40	50 60 70 80	X	3 ////////////////////////////////////		300	400		

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EUT:	4G Tablet	15	Mode	el Name	· T/	ab 6	5	N
Femperature:	24.5 ℃			ive Hur		1%	2	8 3
Pressure:	1010 hPa			ization:	,	ertical		
Test Power:	DC 5V from Adapt 230V/50Hz	ter AC	~	Mode:		ode 1		x &
1 5	+ >		i k	5	2. 4	x	5	× 2
Frequency	Meter Reading	Factor	Emission I	Level	Limits	<u> </u>	largin	Domork
(MHz)	(dBµV)	(dB)	(dBµV/r	m)	(dBµV/n	ו)	(dB)	Remark
30.5306	14.81	24.69	39.50	5	40.00	-	0.50	QP
40.2757	15.54	18.81	34.35		40.00	*	5.65	QP
46.5030	19.60	16.29	35.89		40.00	· -	4.11	QP 👔
691.9867	7.57	29.58	37.15	2	47.00	-	9.85	QP
893.8567	6.64	32.21	38.85	1	47.00	-	8.15	QP
1000.000	7.05	34.31	41.36		47.00	-	5.64	QP
Remark: 1. Emission L 72.0 dBuV/m	₋evel= Meter Readi	ng+ Facto	~	t	5		*	Will A
1. Emission L	-evel= Meter Readi	ng+ Facto	~	t	5		Limit: Margin	AT A
1. Emission L	evel= Meter Readi	ng+ Facto	~	t	5		Limit:	AT A
1. Emission L	3		or, Margin= E	Emissio	n Level- L	imit.	Limit: Margin	
1. Emission L 72.0 dBuV/m	_evel= Meter Readi		or, Margin= E	Emissio	5	imit.	Limit: Margin	
1. Emission L 72.0 dBuV/m	3		or, Margin= E	Emissio	n Level- L	imit.	Limit: Margin	

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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2.2.7 TEST RE	ESULTS(1000-6000MHz)	to the	2 2 2 2 E
EUT:	4G Tablet	Model Name:	Tab 6
Temperature:	24.5℃	Relative Humidity:	51%
Pressure:	1010 hPa 🛛 💉 📄	Test Mode:	Mode 1 🛛 💉 🍼
Test Power:	DC 5V from Adapter AC 230V/50	Hz 📈 🛛 🤝	A S S
>	47		N N

		117				
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
1500.000	39.35	2.50	41.85	70.00	-28.15	peak
2325.000	39.49	5.62	45.11	70.00	-24.89	AVG
2900.000	38.72	8.18	46.90	70.00	-23.10	peak
4250.000	37.69	11.43	49.12	74.00	-24.88	AVG
4837.500	35.36	12.08	47.44	74.00	-26.56	peak
5562.500	35.01	13.50	48.51	74.00	-25.49	AVG
1712.500	39.65	3.48	43.13	70.00	-26.87	peak
2537.500	39.28	6.43	45.71	70.00	-24.29	AVG
2750.000	38.57	7.32	45.89	70.00	-24.11	🗬 peak
2950.000	38.15	8.52	46.67	70.00	-23.33	AVG 🔬
4225.000	37.22	11.38	48.60	74.00	-25.40	peak
5437.500	35.31	13.35	48.66	74.00	-25.34	AVG
	(MHz) 1500.000 2325.000 2900.000 4250.000 4837.500 5562.500 1712.500 2537.500 2750.000 2950.000 4225.000	FrequencyReading(MHz)(dBµV/m)1500.00039.352325.00039.492900.00038.724250.00037.694837.50035.365562.50035.011712.50039.652537.50039.282750.00038.572950.00038.154225.00037.22	FrequencyReadingFactor(MHz)(dBµV/m)(dB)1500.00039.352.502325.00039.495.622900.00038.728.184250.00037.6911.434837.50035.3612.085562.50035.0113.501712.50039.653.482537.50039.286.432750.00038.577.322950.00038.158.524225.00037.2211.38	FrequencyReadingFactorLevel(MHz)(dBμV/m)(dB)(dBμV/m)1500.00039.352.5041.852325.00039.495.6245.112900.00038.728.1846.904250.00037.6911.4349.124837.50035.3612.0847.445562.50035.0113.5048.511712.50039.653.4843.132537.50038.577.3245.892950.00038.158.5246.674225.00037.2211.3848.60	FrequencyReadingFactorLevelLimits(MHz)(dBμV/m)(dBμV/m)(dBμV/m)(dBμV/m)1500.00039.352.5041.8570.002325.00039.495.6245.1170.002900.00038.728.1846.9070.004250.00037.6911.4349.1274.004837.50035.3612.0847.4474.005562.50035.0113.5048.5170.001712.50039.653.4843.1370.002537.50038.577.3245.8970.002950.00038.158.5246.6770.004225.00037.2211.3848.6074.00	FrequencyReadingFactorLevelLimitsMargin(MHz)(dBµV/m)(dB)(dBµV/m)(dBµV/m)(dB)1500.00039.352.5041.8570.00-28.152325.00039.495.6245.1170.00-24.892900.00038.728.1846.9070.00-23.104250.00037.6911.4349.1274.00-26.565562.50035.0113.5048.5174.00-26.565562.50035.0113.5048.5170.00-26.872537.50039.286.4345.7170.00-24.292750.00038.577.3245.8970.00-24.112950.00038.158.5246.6770.00-23.334225.00037.2211.3848.6074.00-25.49

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.

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- 2.3 HARMONICS CURRENT
- 2.3.1LIMITS OF HARMONICS CURRENT

Table 1 – Limits for Class A equipment

Harmonic order (n)	Maximum permissible harmonic current (A)		
Odd harmonics			
>3	🖉 🖣 2.3 🔔 🔬		
5	1.14		
7 5	0.77		
9	0.4		
5 11	0.33		
13 🧷 🗧	0.21		
15≤n≤39	0.15*(15/n)		
Even h	armonics		
2 1 2	1.08		
4 📈	0.43		
6	0.30		
8≤n≤40	0.23*(8/n)		
	A		

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

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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.

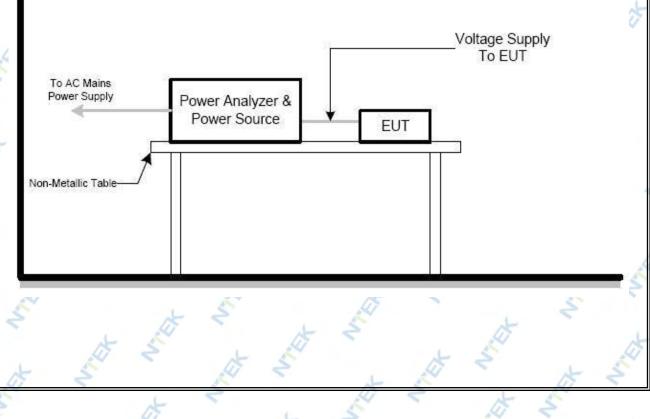
Class D: Equipment having a specified power less than or equal to 600W of the following types: Personal computers and personal computer monitors and television receivers.

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

A T	t S		14 2		~	-
EUT:	4G Tablet	A	Model Name:	Tab 6		
Temperature:	22°C 🔷 🔪	R	Relative Humidity:	53%		¥
Pressure:	1012hPa	7	Test duration:	150s	A	14
Classification:	Class A		Test Power:	N/A 🙏	E	1
Test Mode:	N/A 🖉	X	2	K	-	

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.

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2.4 VOLTAGE FLUCTUATION AND FLICKERS

2.4.1 LIMITS OF VOLTAGE FLUCTUATION AND FLICKERS

Test items	Limits(EN61000-3-3)	Descriptions	
P _{st}	≤1.0, T _p =10min	=10min short-term flicker indicator	
P _{it}	≪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:

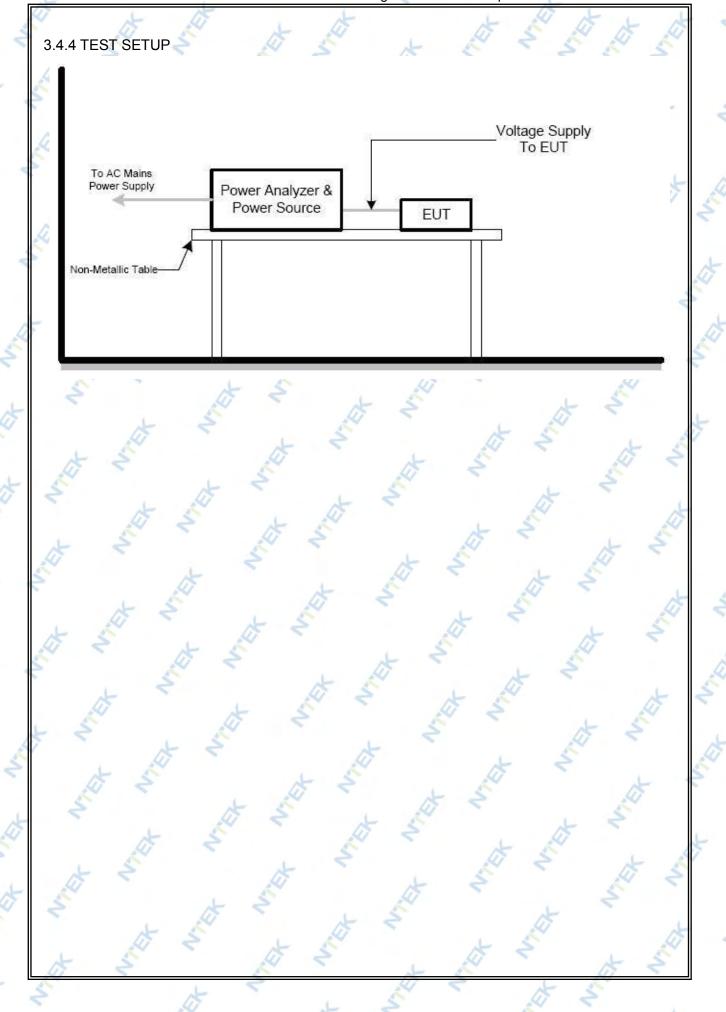
Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.

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

	A	A	2		Nº S	
2	EUT:	4G Tablet		A	Model Name:	Tab 6
Ģ	Temperature:	22.2℃	×	K	Relative Humidity:	52%
	Pressure:	1010 hPa	S.	~	Test Power:	DC 5V from Adapter AC 230V/50Hz
	Test Mode:	Mode 1		i.	5	A 2

	1 m		
A	EUT values	Limit 💉	Result
Pst	0.028	1.00	PASS
Pit	0.028	0.65	PASS
dc [%]	0.000	3.30 💉	PASS
dmax [%]	0.149	4.00	PASS
Tmax [s]	0.000	0.50	PASS

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3. EMC IMMUNITY TEST

3.1 GENERAL PERFORMANCE CRITERIA

3.1.1 PERFORMANCE CRITERIA

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

	The equipment shall continue to o	perate as intended without operator								
	intervention. No degradation of per	formance or loss of function is allowed below a								
2	performance level specified by the intended.	manufacturer when the equipment is used as								
Criterion A	The performance level may be rep	laced by a permissible loss of performance. If								
	specified by the manufacturer, the	the permissible performance loss is not n either of these may be derived from the ation, and by what the user may reasonably as intended.								
		continue to operate as intended without								
Criterion B	operator intervention. No degradat allowed, after the application of the	ion of performance or loss of function is e phenomena below a performance level en 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. Loss of function is allowed, provided the function is self-recoverable, or can be									
Criterion C	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.									
ccording to E	EN 301 489-3 standard, the genera	l performance criteria as following:								
Criteria	During the test	After the test								
A	Operate as intended No loss of function No unintentional responses	Operate as intended No loss of function No degradation of performance								
1ª		No loss of stored data or user programmable functions								
B 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								
5	t s	functions								

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Criteria	During the test	After the test
	Shall operate as intended (see note 1).	Shall operate as intended.
Ł	Shall be no loss of function.	Shall be no degradation of performance
	Shall be no unintentional	(see note 3).
A	transmissions	Shall be no loss of function.
	A C L S	Shall be no loss of stored data or user
1 4		programmable functions
	May show loss of function (one or	Functions shall be self-recoverable.
	more). 🧹 🛛 🥂 🎽	Shall operate as intended after recovering
в 🔬	May show degradation of performance	Shall be no degradation of performance
5	(see note 2).	(see note 3).
5	Shall be no unintentional	Shall be no loss of stored data or user
	transmissions.	programmable functions.
S	A A A	Functions shall be recoverable by the operator.
С	May be loss of function (one or more)	Shall operate as intended after recovering
	AT T I S	Shall be no degradation of performance
at-	5 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.

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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.

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

Reference to clauses in	Special product-related conditions, additional to or modifying the test
ETSI EN 301 489-1 [1]	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;	Spot frequency test:
Radio frequency electromagnetic field	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; 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.

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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 (Draft) ETSI EN 301 489-52 V1.1.2 (2020-12) clause 6.1.

CDMA Direct Spread (UTRA and E-UTRA) Performance Criteria Please refer to the standard (Draft) ETSI EN 301 489-52 V1.1.2 (2020-12) clause 6.2.

3.2 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.

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3.3 ESD TESTING

3.3.1 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							

3.3.2 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 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 m \times 0,5 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

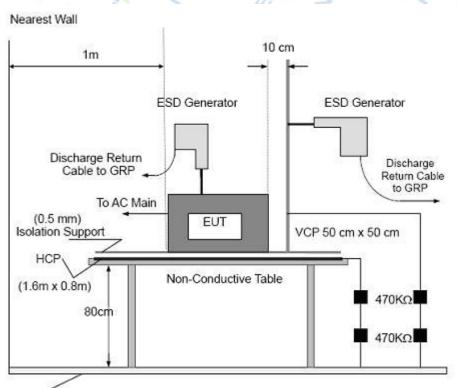
b. Direct application of discharges to the EUT

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.

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3.3.3 TEST SETUP



Ground Reference Plane(GRP) Bonded to PE

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 of 1-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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3.3.4 TEST RESULTS

	15 C	A P	1	R	
Ł	EUT:	4G Tablet	5	Model Name:	Tab 6
1	Temperature:	22°C 🤝 📈	S	Relative Humidity:	53%
2	Pressure:	1010 hPa			DC 5V from Adapter AC 230V/50Hz / DC 5V from PC
5	Test Mode:	Mode 1/2/3/4/5/6/7/8/9	t	5	A H
		N	117	4	S

_	Mode	Contact D	isch	arge	e (Ir	ndire	ect)					
1	Test level(kV)	Test Point		2	4		6		Criterion	Result		
	Test Location		+	-	+	-	+	-				
	E	Front	Р	Ρ	Ρ	Ρ			A.	L A		
	HCP	Rear	Ρ	Ρ	Ρ	P	1		t to	Complies		
	TICE	Left	Ρ	Ρ	Ρ	Ρ						
	AT S	Right	P	Ρ	Ρ	Р			A B			
	S	Front	Ρ	Ρ	Ρ	Ρ		2	Ø 8			
	VCP	Rear	Ρ	Ρ	Ρ	P		V				
	VUF	Left	Ρ	Ρ	Ρ	Р			15	S at		
	なって	Right	Ρ	Ρ	Ρ	Ρ		A	5	H		

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TEST RES Mode 5/6/7			1	Ş	4	-		\$	9		Y	Ş			1	4	- A	2	5	5 5
Mode	-		lir E	Dis	cha	arg	е		(Cor	nta	ct D	Disc	har	ge	e	BT / WIFI / GSM /			
Test level(kV)	2	2	4		8	3	1	5	2	2	4	4	6		8	3	/ CDMA / LTE	GPS Obser	Crite rion	Result
Test Location	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	Observati on	vation	non	
A1	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ				~	×.,				-		×	Y		L.
🔎 A2 <u></u>	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	A	1		1							N. S.		15	2
A3	Ρ	Ρ	Ρ	Ρ	Ρ	Р	A.							A	1		V	×	5	
A4	Ρ	P	P	Ρ	Ρ	Ρ					4		1.0				TTT	E-		Complete
A5	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	Y			N							TT,TR	TR	В	Complies
A6	Ρ	Ρ	Ρ	Ρ	Ρ	Р	/							Y			2	7	45	2
A7	Ρ	P	Ρ	Ρ	Ρ	Р				.1			5				-	5	~	
A8	P	Ρ	Ρ	Ρ	Ρ	Ρ				4							x x			at
S						~	-		2							1	~			1 m

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	AT 1	~					Ŀ		1	Q							4	5 3	S A	
Mode 1/2	2/3/4	2				Ľ			5				1	۲			E	· · ·	55	ř
AT	Mode		A	ir [Dis	cha	arg	е		(Сог	ntao	ct D	Disc	cha	arge	Э			
5	Test level(kV)	2	2	4	Ļ	8	3	1	5	4	2	2	1	6	5	8	3	Crite rion	Result	
to a	Test Location	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-			
	A1 🔬	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ		Y			A.	A					2	2 4	
	A2 💎	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	12	5							×		1		
x s	A3	Ρ	Ρ	Ρ	P	Ρ	Ρ	1							15.	Y			AT.	
4	A4 🔬	Ρ	Ρ	P	Ρ	Ρ	Ρ		1			\mathcal{Q}_{i}	1		1			P/	Complies	
	A5	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	1	5		V	Å				F		B	Complies	
P	A6	Ρ	Ρ	Ρ	P	Ρ	Ρ	As							\sim			5	1	
	A7	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ				0	1.			4				A	~
4	A8	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	L		N								15	2	

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.

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3.4 RS TESTING

3.4.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-3
Required Performance	A 2 2
Frequency Range:	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
Field Strength:	3 V/m 🥒 🔶
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m 🦉 🧳 🍝
Antenna Height:	1.5 m
Dwell Time:	at least 3 seconds

3.4.2 TEST PROCEDURE

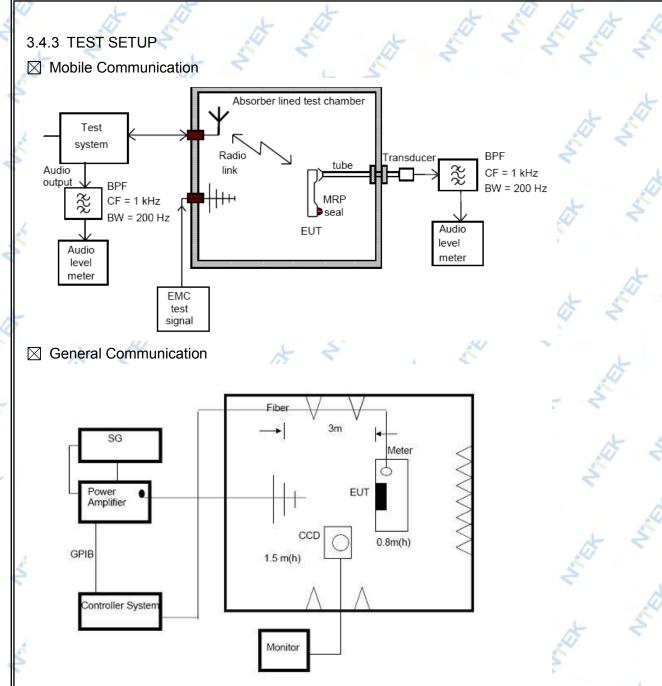
The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.

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.
- 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.

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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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3.4.4 TEST RESULTS

	15	* ~		R	
Ł	EUT:	4G Tablet	5	Model Name:	Tab 6
1	Temperature:	23℃	1	Relative Humidity:	57%
-	Pressure:	1010 hPa	r		DC 5V from Adapter AC 230V/50Hz / DC 5V from PC
5	Test Mode:	Mode 1/2/3/4/5/6/7/8/9	1	5	A A

TEST RESULT

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

Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Observation	Results
80~1000		3 V/m (rms)	Front Rear	CT CD	The Party
1000-6000	H/V	AM Modulated 1000Hz, 80%	Left Right	CT,CR	đ

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 \ge 95 % of the maximum throughput of the reference measurement channel

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(GSM 900 / 1800 / W	CDMA 210	00 / 900 Uplink a	and Downlin	ik 🦉 🗧	150	8 8
	Frequency Range	RF Field	R.F.	Azimuth	Observation	Perform.	Results
Ś	(MHz)	Position	Field Strength	Azimutn	Observation	Criteria	Results
	LA		A A	Front	The second		- 45
Å	80~1000		3 V/m (rms)	Rear	SOTOD	+ . 2	
>	1000-6000	H/V	AM Modulated 1000Hz, 80%	Left	CT,CR		Р
	At 2		1000112, 00 %	Right	+ 2		A
	24		4 5		N.	1	2

Note:

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:

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

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

Note:

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

		7		24		5		
	Frequency	RF Field	R.F.	Azimuth	Observation	Perform.	Results	5
	Range (MHz)	Position	Field Strength	Azimum	Observation	Criteria	Results	~
ś		to		Front 🧹	4	A	5	
	80~1000	H/V	3 V/m (rms)	Rear	CT CB	S	Р	1
	1000-6000	Π/V	AM Modulated 1000Hz, 80%	Left	CT,CR	A	A	\$
į	V	A	1000112, 00 %	Right 🔟	5		41	

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.

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47	R.	X A		45 5	41	15 A
GPS Receiver Mod	e Link	2 5	A	8 5	55	1 5
Frequency Range	RF Field	R.F.	Azimuth	Observation	Perform.	Results
(MHz)	Position	Field Strength			Criteria	
+ to			Front	A L	t	A
80~1000	H/V	3 V/m (rms) AM Modulated	Rear	CR	t st	P
1000-6000		1000Hz, 80%	Left	Sin Sin		A
A		T. T.	Right	45	A	S
80,104,136,	* 5		Front		5	
165,200,260,		3 V/m (rms)	Rear	L #		
330,430,560,	H/V	Unmodulated		CR	Α	B
715 MHz ± 1,	45	200Hz, 100%	Left 🔬		A	5 5
920 MHz ± 1	SV	4	Right	t	S	
41				50		

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.

REC / TF Playing/ Data Transmission / FM Mode

Fr	equency Range (MHz)	e RF Field Position	R.F. Field Strength	Azimuth	Perform. Criteria	Results	d
14	80~1000	4 5		Front		THE STATE	
to	1000~6000 1800 2600 3500	H/V	3 V/m (rms) AM Modulated 1000Hz, 80%	Rear Left	A	₽ ₽	đ
	5000	4	t to	Right	t x		

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.

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3.5 EFT/BURST TESTING

3.5.1 TEST SPECIFICATION

Aller	
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.

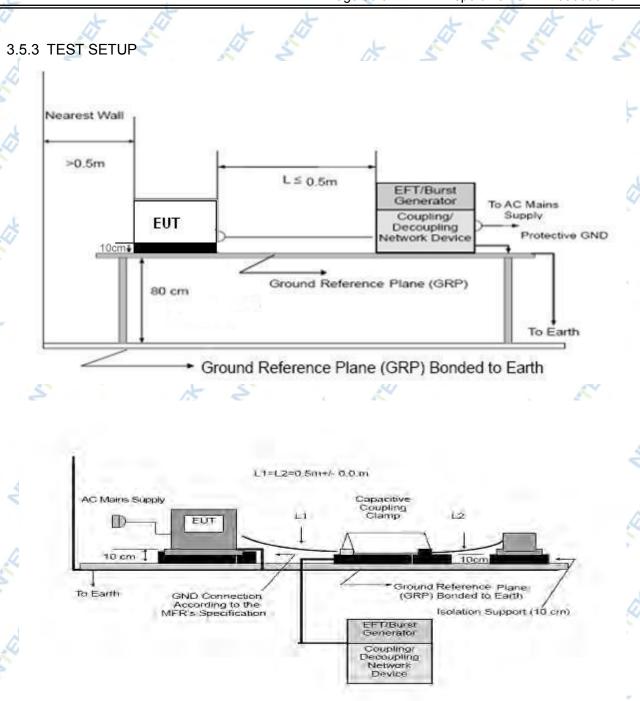
3.5.2 TEST PROCEDURE

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:

- a. 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.

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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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3.5.4 TEST RESULTS

15	X Z	E I	
EUT:	4G Tablet	Model Name:	Tab 6
Temperature:	22°C 🔨 🦯 🔨	Relative Humidity:	53%
Pressure:	1010 hPa		DC 5V from Adapter AC 230V/50Hz
Test Mode:	Mode 1/2/4/5/6/7/8/9	5	A S

TEST RESULT Mode 5/6/7/8/9

Ш	wiou	e 5/6///8/9		1		5					AN		A	
					Tes	st lev	el (k	V)			BT / WIFI /	GPS		
	Coupling Line		0	.5		1	2	2	4	ļ	GSM / WCDMA / LTE	Observ	Criteri on	Result
~			+	-	+	-	+	-	+	-	Observation	ation		
4	-	L	P	Ρ	Ρ	Ρ				15	4	4	1	Complies
		N N	Р	Ρ	Ρ	Ρ		5		V	×	5		Complies
		PE			6	6	N.						1.	N.
	AC line	L+N	Ρ	Р	Ρ	Ρ				2	5 4	6	AT	Complies
		L+PE					A	-	V	1.	TT,TR	TR	В	t 1
	A	N+PE					N.				A	5		V 7.4.1
	5	L+N+PE		4	Y'		b.			L	S.		at	V
	D	C Line 🔬	1.	SN			4		X	7		1 5		L.
	Sig	nal Line				1	4		V			0		* *

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Mode 1/2/4		7	4	*	A	5			A	5 5 1	TA A	
			~	T	est le	vel (k\	/)		<u></u>		0 2	
Couplir	Coupling Line		0.5		1		2		1	Criterion	Result	
		+	-	+	-	+	-	+	-			
5	L	Р	Р	Р	Р		E			A.	Complies	
	L NŚ	Р	Р	Р	P				6	5	Complies	
A	PE		A	N					7		x S	
AC line	L+N	P	Р	Р	Р		Y	1			Complies	
	L+PE	1			み	5				АВ Т		
de la	N+PE			2				A		S	the state	
5	L+N+PE	2	<i>b</i> .					2			ない	
DC	Line 🙏	V				A				x S		
Signa	Il Line			5		1.		6	3		J.	

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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3.6 SURGE TESTING

3.6.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-5
Required Performance	в
Wave-Shape:	Combination Wave
	1.2 / 50 us Open Circuit Voltage
	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

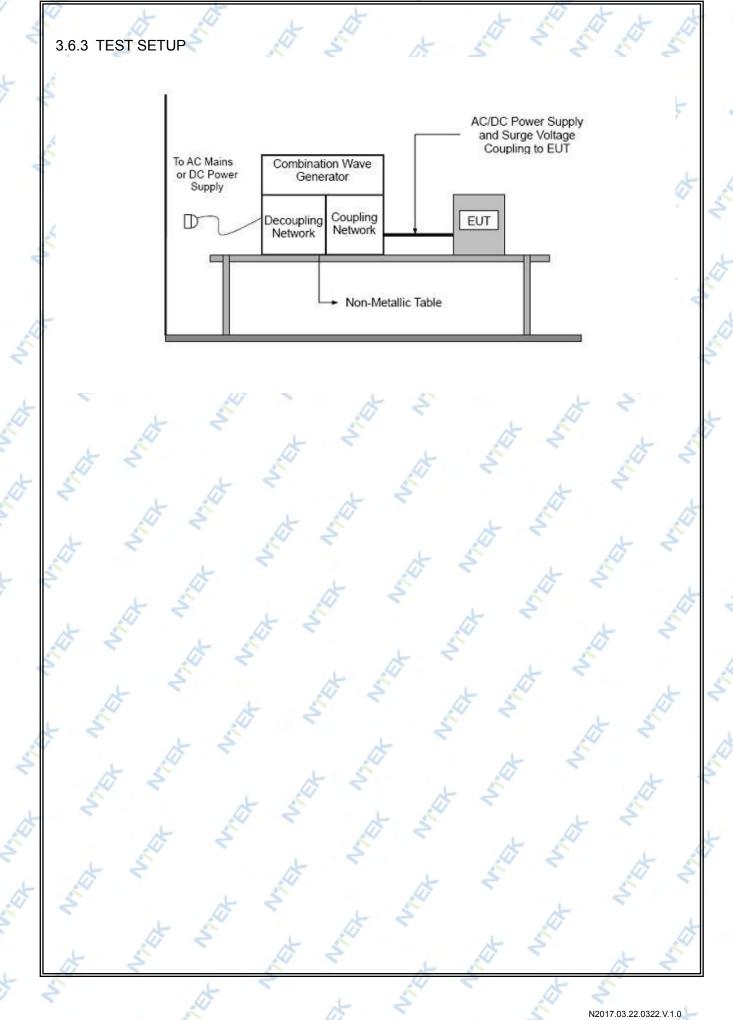
3.6.2 TEST PROCEDURE

- 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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2	4	1	-	A	۶.					de	-		1	t.	19 15	tot
2	3.6.4	TEST R	ESUL	rs			A	2	2	S		A	Š	5	2 5	2 5
	1	_	1.0 -		*	4	2					~	-			5
	EUT:		4G Ta	able	ť					4	_	Model Name		Tab 6	-	1
	Tempe	Temperature: 22°C									ŀ	Relative Hum	ndity:	53%	/ from Ada	
	Pressi		1010			2					٦	Test Power:		230V/	/ from Adap 50Hz	Dier AC
<	Test N	/lode:	Mode	1ode 1/2/4/5/6/7/8/9						4 5						
		RESUL 5/6/7/8/		-		AL	t.	An		t st	đ	2	the second	A A		
4						Te	est le	evel				BT / WIFI				
	Co	oupling L	ine	0.5	kν	11	٢V	2k	V	4k	V	/ GSM / WCDMA / LTE /		PS ervati	Criterion	Result
0				+	-	+	-	+	-	+	-	Observati	C	on		
-		×	0°	Ρ	Р	Р	Р	A		ν.	LA.		1	2		
	1	4	90°	Ρ	P	Ρ	Р	~				5	2			AT.
_	~	L-N	180°	Р	P	Р	Ρ				A	5			×	Complies
			270°	Р	Р	Р	Р			13				A	E	
	A	~ ~					A	Sec.		1		A	\$		1	A A
è.	AC	L-PE			F		10					TT,TR	т	R	В	2
	line		t	14	1					5	-			~	A	15
	4	5		1			4		5				15			1 5
	41			+		2						A	5		- 4	9
		N-PE	-	4					d			E.		1	6 4	4
	-	2			6	-	V	2.				5	2		. 5	
	A	DC Line		de la		Ś						+ *			A	
1	_		~		•			~		2	1		15	~		
		ignal Lir				J-		-	40		-		5	5		A
	+ 3	S			A	Q		1				S.			t	5

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N	lode 1/2/4	1 ×	47	A	F	A			-	6	at 1	5 5	E A &	Ģ
4							Test	level						
5	Co	upling Line	•	0.5	kV	1	kV	21	٨V	4	٨٧	Criterion	Result	
				+	-	+	-	+	-	+	-			
4	5 5		0°	Р	Р	Ρ	Р	A		5	V	t	4 2	
•		L-N	> 90°	Ρ	Ρ	Ρ	Ρ	N				E.	Complies	_
	A	1 2	180°	Ρ	P	Р	Р			X			Complies	7
1	- 5		270°	Р	Ρ	Ρ	Ρ		3			4	5 2	
ŝ		L.	1			1	1	15	1			7 5		
	AC line	L-PE			1	1	V			×	2	в	t.	
	14		A		V				1	4	1		+ #	4
-	4		5				A		1				1 2	
	al-	AT .			1		5				4	1		
	A	N-PE			4				t	4	2		to	
	2		J.F	V			t	4	2			t	5	
		×	2			1	5					4		
	6	DC Line		1	1.	V					A	r	A	Ś
	S S	ignal Line		E				4	4	5	A .		E	5
1	2		A					5				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.

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3.7 INJECTION CURRENT TESTING

3.7.1 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

3.7.2 TEST PROCEDURE

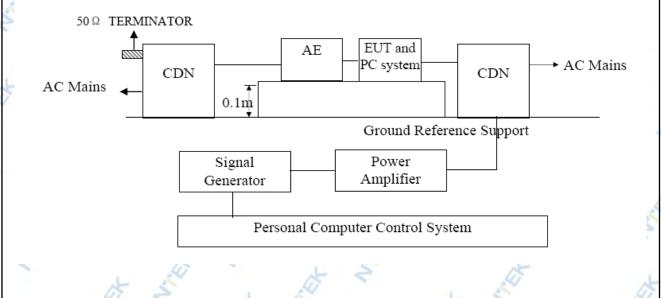
The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

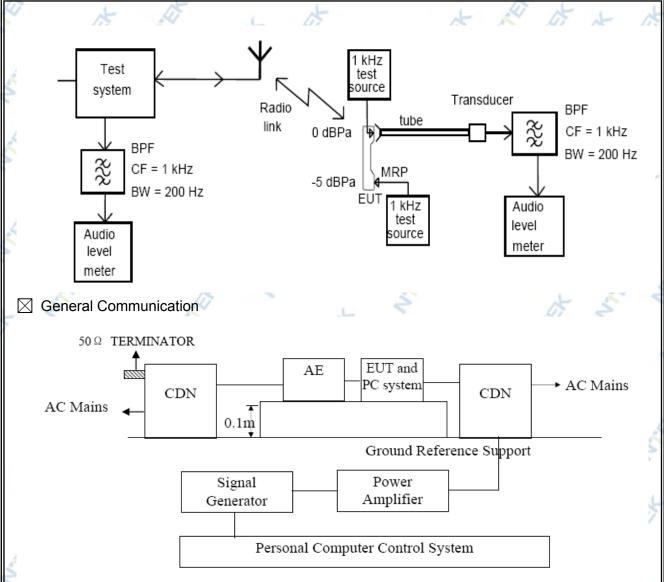
- a. The field strength level was 3V.
- b. The frequency range is swept from 150 KHz to 80 MHz, with the signal 80% amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5×10^{-3} decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- 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.

3.7.3 TEST SETUP

Mobile Communication



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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.

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3.7.4 TEST RESULTS

15	* ~		E S	5
EUT:	4G Tablet	15	Model Name:	Tab 6
Temperature:	22℃	E	Relative Humidity:	53%
Pressure:	1010 hPa		Test Power:	DC 5V from Adapter AC 230V/50Hz
Test Mode:	Mode1/2/4/5/6/7/8//10	A	5	A A

TEST RESULT LTE FDD B1 / B3 / B7 / B8 / B20 Link

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

Note: 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

GSM 900 / 1800 / WCDMA 2100 / 900 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	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 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.

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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	Y P				
Input / Output DC. Power Port	0.15 80	AM Modulated 1000Hz, 80%	N/A	<u>∕</u> N/A <	N/A				
Signal Line	0.15 80	SA	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

	1			117	
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	4	N/A	N/A	N/A
10 m		1			

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

12	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	S.	<i>∕</i> 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 Mode / FM	E.	S A	A S	S. E.
Test Ports (Mode)	Freq. Range (MHz)	Field Strength	Perform. Criteria	Results
Input / Output AC. Power Port	0.1580	3V(rms)	A A	P
Input / Output DC. Power Port	0.15 80	AM Modulated 1000Hz, 80%	N/A	N/A
Signal Line	0.15 80		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.

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4.8 VOLTAGE INTERRUPTION/DIPS TESTING

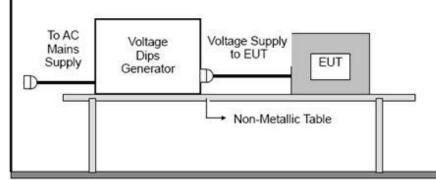
4.8.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-11				
Required Performance	100% reduction, 0.5 Cycle				
	100% reduction, 1.0 Cycle				
	30% reduction, 25 Cycles				
	30% reduction, 0.5 Cycle				
Voltage Interruptions:	100% reduction, 250 Cycles				
Test Duration Time:	Minimum three test events in sequence				
Interval between Event:	Minimum ten seconds				
Phase Angle:	0°/45°/90°/135°/180°/225°/270°/315°/360°				
Test Cycle:	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.

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4.8.4 TEST RESULTS

15	* ~		E	
EUT:	4G Tablet	5	Model Name:	Tab 6
Temperature:	22°C	E	Relative Humidity:	53%
Pressure:	1010 hPa		LAST POWAR	DC 5V from Adapter AC 230V/50Hz
Test Mode:	Mode 1/2/4/5/6/7/8/9	at	5	4 2

TEST RESULT

Mode 5/6/7/8/9	5	A	2		
		BT / WIFI /			
Voltage	Duration	GSM /	GPS	Perform	Results
Reduction	(ms)	WCDMA / LTE	Observation	Criteria	Results
		Observation			
Voltage dip: 0%	10	TT, TR	TR 🔬	B	Р
Voltage dip: 0%	20 🖉	TT, TR	TR	В	P
Voltage dip: 70%	10	TT, TR	TR	C	P
Voltage dip: 70%	500	TT, TR	TR 🙏	С	Р
Voltage interruptions: 0%	5000	TT, TR	TR	С	P

Mode 1/2/4

e 1/2/4	15	24	
Voltage	Duration	Perform	Results
Reduction	(ms)	Criteria	Results
Voltage dip: 0%	10 🖉	🗧 в 🗶	ГР
Voltage dip: 0%	20 🔷	в	Р
Voltage dip: 70%	lo 10	o 🏹 c	XP X
Voltage dip: 70%	500 🔶	< c	S P
Voltage interruptions: 0%	5000	L C A	Р
	Voltage Reduction Voltage dip: 0% Voltage dip: 70% Voltage dip: 70%	VoltageDurationReduction(ms)Voltage dip: 0%10Voltage dip: 0%20Voltage dip: 70%10Voltage dip: 70%500	Voltage ReductionDuration (ms)Perform CriteriaVoltage dip: 0%10BVoltage dip: 0%20BVoltage dip: 70%10CVoltage dip: 70%500C

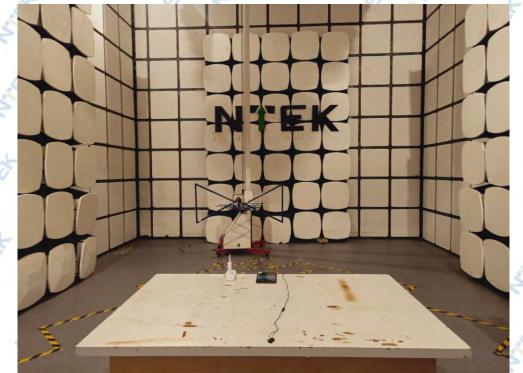
Note:

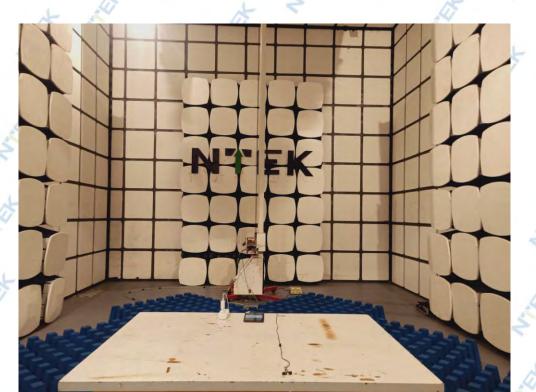
- 1) There was not any unintentional transmission in standby mode
- 2) In the table: 'P' represents 'PASS'; 'F' represents 'FAIL'.
- 3) There was not any unintentional transmission in standby mode.

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4. EUT TEST PHOTO

Radiated Measurement Photo





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Flick Measurement Photo

测试中

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