RADIO TEST REPORT ETSI EN 301 908-1 V13.1.1 (2019-11) ETSI EN 301 908-2 V13.1.1 (2020-06)

Product : Tablet PC Trade Mark : Blackview Model Name : Active 8 Pro Family Model : N/A

Report No.: S23081004401007

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.: S23081004401007

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
Address	801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China.
Product description	
Product name:	Tablet PC
Trademark:	Blackview
Model Name:	Active 8 Pro
Family Model	N/A
Standards:	ETSI EN 301 908-1 V13.1.1 (2019-11) ETSI EN 301 908-2 V13.1.1 (2020-06)

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 article 3.2 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.

Test Sample Number	S230526008001
Date of Test	
Date (s) of performance of tests	May 29, 2023 ~ Jun 21, 2023
Date of Issue	Aug 30, 2023
Test Result	Pass
Note: All test data of this report are based on	the original test report
S23052600801007 dated by Jun 25, 2023	

Testing Engineer

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(Allen Liu)

Authorized Signatory :

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(Alex Li)

Table of Contents	Page
1. SUMMARY OF TEST RESULTS	5
1.1 TEST FACILITY	6
1.2 MEASUREMENT UNCERTAINTY	6
2 . GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF EUT	7
2.2 LIST OF TEST EQUIPMENTS	8
2.3 TEST ENVIRONMENT/CONDITIONS	9
2.4 TEST Mode	10
3 . SUMMARY OF TEST REPORT	11-
4. TEST PROCEDURES AND RESUTLS	12
4.1 TERMS IN THE COLUMN "VERDICT" FOR THE TEST RESULTS	S LIST OF
THISSECTION:	12
4.2 TABLE 1 EN REQUIREMENTS TABLE	12
4.3 ETSI EN 301 908-1 V13.1.1 (2019-11)	14
§4.3.1 – RADIATED EMISSIONS (UE)	14
Applicable Standard & Limits Test Procedure	14
Test Data	14
§4.3.2 –Control and monitoring functions (UE)	19
Definition & Limits	19
Test method	19
Test Data §4.3.3 —Out-of-synchronization handling of output power	- 19 20
Test Procedure	20
Test Data	21
5. PHOTOGRAPHS OF THE TEST SETUP	22

N2019.06.22.V.1.3

Page 4 of 22

Report No.: S23081004401007

Report No.	Version	Description	Issued Date
S23052600801007	Rev.01	Initial issue of report	Jun 25, 2023
S23081004401007	Rev.02	Updated report number	Aug 30, 2023
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1. SUMMARY OF TEST RESULTS

Leading Reference Documents For Testing:

No.	Identity 🖉	Document Title
1	ETSI EN 301 908-1	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements
2	ETSI EN 301 908-2	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)

Specific Reference Documents For Testing:

No.	Identity	Document Title
3	3GPP TS 34.121-1	3 rd Generation Partnership Project; Technical Specification Group Radio Access Network ; Terminal conformance specification; Radio transmission and reception (FDD)
4	3GPP TS 34.121-2	3 rd Generation Partnership Project; Technical Specification Group Radio Access Network User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)

Page 6 of 22

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

FCC Registered No.: 463705 IC Registered No.: 9270A-1

CNAS Registration No.:L5516

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1.2 MEASUREMENT UNCERTAINTY

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

No.	Item 📕	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

GENERAL DESCRIPTION	OF EUT
Equipment :	Tablet PC
Trade Mark:	Blackview
Model Name:	Active 8 Pro
Family Model:	N/A
Model Difference:	N/A
Support Band:	 WCDMA Band I (2100MHz) WCDMA Band II (1900MHz) WCDMA Band V (850MHz) WCDMA Band VI (900MHz)
Release Version:	R99
Frequency Bands:	Uplink: WCDMA Band I :1920~1980MHz WCDMA Band VIII:880~915MHz
4	Downlink: WCDMA Band I :2110~2170MHz WCDMA Band VIII:925~960MHz
Modulation Mode:	WCDMA(HSDPA/HSUPA):QPSK
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 Class:	3
Antenna Description:	PIFA Antenna (Band I: 0.8 dBi ;Band Ⅷ: 0.4 dBi)
Adapter	Model: HJ-C6-33-EU Input: 100-240V~50/60Hz 0.8A Output: (PD) 5.0V3.0A 15.0W or 9.0V3.0A 27.0W or 12.0V2.5A 30.0W or 15.0V2.0A 30.0W or 20.0V1.5A 30.0W (PPS)3.3V-11.0V3.0A (33.0W MAX)
Battery	DC 3.87V, 22000mAh
Rating	DC 3.87V from battery or DC 5V from adapter
Hard Ware Version	TP769_A1_V1.0
Soft Ware Version	Active8Pro_EEA_TP769_V1.0

Page 8 of 22

Report No.: S23081004401007

ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2023.03.27	2024.03.26	1 year
2	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.03.26	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
5	Spectrum Analyzer	Agilent	N9020A	MY46471732	2023.03.27	2024.03.26	1 year
6	Horn Antenna	EM	EM-AH-20180	2011071402	2023.03.27	2024.03.26	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.11.07	2023.11.06	1 year
8	Amplifier	EMC	EMC051835S E	980246	2022.06.17 2023.06.15	2023.06.16 2023.06.14	1 year
9	Loop Antenna	ARA	PLA-2030/B	1029	2023.03.27	2024.03.26	1 year
10	Temperature & Humitidy Chamber	GIANT FORCE	GTH-056P	GF-94454-1	2022.06.17 2023.06.15	2023.06.16 2023.06.14	1 year
11	LTE Wireless Communications Test Set	R&S	CMW500	1100.008.02	2022.06.17 2023.06.15	2023.06.16 2023.06.14	1 year
12	Power Splitter	Mini-Circuits	ZN2PD-63-S+	SF025101428	2023.03.27	2024.03.26	3 year
13	Wireless Communication Test	Anritsu	MT8821C	6262192315	2022.11.08	2023.11.07	1 year
14	Power Meter		RPR3006W	15I00041SNO8 4	2022.06.17 2023.06.15	2023.06.16 2023.06.14	1 year
15	ESG VETCTOR SIGNAL GENERAROR	Agilent	E4438C	MY45093347	2023.03.27	2024.03.26	1 year
16	Spectrum Analyzer	R&S	FSV40	101417	2022.06.17 2023.06.15	2023.06.16 2023.06.14	1 year

2.2 LIST OF TEST EQUIPMENTS

Report No.: S23081004401007

2.3 TEST ENVIRONMENT/CONDITIONS

• • • • • • • • • • • • • • • • • • •				
Normal Temperature (NT):	20 25 °C			
Relative Humidity:	30 75 %			
Air Pressure:	980 1020 hPa			
Extreme Temperature:	Low Temperature (LT) =	-10°C		
Extreme Temperature:	High Temperature (HT) =	40°C		
Extreme Voltage of the ELIT	Normal Voltage (NV) =	3.87V		
Extreme Voltage of the EUT (Declared by manufcturer):	Low Voltage (LV) =	3.4V		
(Declared by manufclurer).	High Voltage (HV) 🙏 =	4.4V	7	

Note:

The High Voltage 4.4V and Low Voltage 3.4V was declarated by manufacturer, The EUT couldn't be operate normally with higher or lower voltage. The High temperature and Low temperature was declarated by manufacturer.

Page 10 of 22

2.4 TEST Mode

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (1.7/-3.7) 12.2kps RMC is used for this testing. Power control set to All bits up. A summary of these settings are illustrated below:

Test Mode	Test Channel
A L	Low:Ch 9612
WCDMA Band I mode	Mid:Ch 9750
	High:Ch 9888

Test Mode	Test Channel
	Low:Ch 2712
WCDMA Band VIII mode	Mid:Ch 2788
	High:Ch 2863

Report No.: S23081004401007

3. SUMMARY OF TEST REPORT

ETSI EN 301 908-1 V13.1.1	Description of Test	Test Result
§4.2.2	Radiated emissions (UE)	Pass
§4.2.3	Radiated emissions (BS and repeater)	N/A
§4.2.4	Control and monitoring functions (UE)	Pass

ETSI EN 301 908-2 V13.1.1	Description of Test	Test Result
§4.2.2	Transmitter maximum output power	Pass
§4.2.3	Transmitter spectrum emission mask	Pass
§4.2.4	Transmitter spurious emissions	Pass
§4.2.5	Transmitter minimum output power	Pass
§4.2.6	Receiver Adjacent Channel Selectivity (ACS)	Pass
§4.2.7	Receiver blocking characteristics	Pass
§4.2.8	Receiver spurious response	Pass
§4.2.9	Receiver intermodulation characteristics	Pass
§4.2.10	Receiver spurious emissions	Pass
§4.2.11	Out-of-synchronization handling of output power	Pass
§4.2.12	Transmitter Adjacent Channel Leakage power Ratio (ACLR)	Pass
§4.2.13	Receiver Reference Sensitivity level	Pass
§4.2.14	Receiver Total Radiated Sensitivity (TRS)	N/A3
§4.2.15	Total Radiated Power (TRP)	N/A3

Note:

- (1) N/A: Test not applicable
- (2) PASS: EUT Pass this test case
- (3) The TRS and TRP requirement applies to handheld phones/DUTs that are narrower than 72 mm. The wider of this DUT is 75mm.

4. TEST PROCEDURES AND RESUTLS

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4.1 TERMS IN THE COLUMN "VERDICT" FOR THE TEST RESULTS LIST OF THISSECTION:

Verdict	Description
PASS	EUT passed this test case
FAIL	EUT failed this test case
Decl.	"Declaration": NTEK has received documents from the applicant and/or manufacturer which show conformity to the applied standards for this test case.
N/A	Test case not applicable for the EUT, please see the column "Note" for detailed

4.2 TABLE 1 EN REQUIREMENTS TABLE

Testcase in ETSI EN	Description	O an dillara	Band I		Band VIII		Test Dete
301 908-2 V13.1.1	Description	Condtion	Sample	Result	Sample	Result	Test Data
		NT / NV	A01	PASS	A01	PASS	Appendix A - WCDMA -Normal
	Transmitter	LT / LV	A01	PASS	A01	PASS	Appendix B - WCDMA -Extreme
Section 4.2.2	maximum output	LT / HV	A01	PASS	A01	PASS	Appendix B - WCDMA -Extreme
	power	HT / LV	A01	PASS	A01	PASS	Appendix B - WCDMA -Extreme
		HT / HV	A01	PASS	A01	PASS	Appendix B - WCDMA -Extreme
Section 4.2.3	Transmitter spectrum emission mask	NT / NV	A01	PASS	A01	PASS	Appendix A - WCDMA -Normal
Section 4.2.4	Transmitter spurious emissions	NT / NV	A01	PASS	A01	PASS	Appendix A - WCDMA -Normal
1	2	NT / NV	A01	PASS	A01	PASS	Appendix A - WCDMA -Normal
		LT / LV	A01	PASS	A01	PASS	Appendix B - WCDMA -Extreme
Section 4.2.5	Transmitter minimum	LT / HV	A01	PASS	A01	PASS	Appendix B - WCDMA -Extreme
	output power	HT / LV	A01	PASS	A01	PASS	Appendix B - WCDMA -Extreme
	•	HT / HV	A01	PASS	A01	PASS	Appendix B - WCDMA -Extreme
Section 4.2. 6	Receiver Adjacent Channel Selectivity (ACS)	NT / NV	A01	PASS	A01	PASS	Appendix A - WCDMA -Normal
Section 4.2.7	Receiver blocking characteristics	NT / NV	A01	PASS	A01	PASS	Appendix C - WCDMA –blocking

Page 13 of 22

Report No.: S23081004401007

Testcase in ETSI EN			Bai	nd I	Band VIII		
301 908-2 V13.1.1	Description	Condtion	Sample	Result	Sample	Result	Test Data
Section 4.2.8	Receiver spurious response	NT / NV	A01	PASS	A01	PASS	Appendix A - WCDMA -Normal
Section 4.2.9	Receiver intermodulation characteristics	NT / NV	A01	PASS	A01	PASS	Appendix A - WCDMA -Normal
Section 4.2.10	Receiver spurious emissions	NT / NV	A01	PASS	A01	PASS	Appendix A - WCDMA -Normal
Section 4.2.11	Out-of-synchronization handling of output power	NT / NV	A01	PASS	A01	PASS	See section 4.3.3 of this report
× ·		NT / NV	A01	PASS	A01	PASS	Appendix A - WCDMA -Normal
	Transmitter Adjacent	LT / LV	A01	PASS	A01	PASS	Appendix B - WCDMA -Extreme
Section 4.2.12	Channel Leakage	LT / HV	A01	PASS	A01	PASS	Appendix B - WCDMA -Extreme
	power Ratio (ACLR)	HT / LV	A01	PASS	A01	PASS	Appendix B - WCDMA -Extreme
•		HT / HV	A01	PASS	A01	PASS	Appendix B - WCDMA -Extreme
Section 4.2.13	Receiver Reference Sensitivity level	NT / NV	A01	PASS	A01	PASS	Appendix A - WCDMA -Normal

Page 14 of 22

Report No.: S23081004401007

4.3 ETSI EN 301 908-1 V13.1.1 (2019-11)

§4.3.1 – RADIATED EMISSIONS (UE)

Applicable Standard & Limits

The frequency boundary and reference bandwidths for the detailed transitions of the limits between the requirements for out-of-band emissions and spurious emissions are based on ITU-R

Recommendations SM.329-10 [3] and SM.1539-1 [4].

The requirements shown in table 4.2.2.2-1 are only applicable for frequencies in the spurious domain.

Frequency	requirement (e.r.p.)/ reference bandwidth idle mode		Applicability		
30 MHz ≤ f < 1 000 MHz 🕢	-57 dBm/100 kHz	-36 dBm/100 kHz	All		
1 GHz ≤ f < 12,75 GHz	-47 dBm/1 MHz	-30 dBm/1 MHz 🛛 🏑	All		
fc - 2,5 × 5 MHz < f < fc + 2,5 × 5 MHz		Not defined	UTRA FDD, UTRA TDD, 3,84 Mcps option, cdma2000, spreading rate 3		
fc - 2,5 × BW _{Channel} MHz < f < fc + 2,5 × BW _{Channel} MHz		Not defined	E-UTRA FDD, E-UTRA TDD, Mobile WiMAX, UMB		
fc - 2,5 × 10 MHz < f < fc1 + 2,5 × 10 MHz		Not defined	UTRA TDD, 7,68 Mcps option		
fc - 4 MHz < f < fc + 4 MHz		Not defined	UTRA TDD, 1,28 Mcps option cdma2000, spreading rate 1		
fc - 500 kHz < f < fc + 500 kHz	<	Not defined	UWC 136, 200 kHz option 🔬		
fc - 250 kHz < f < fc + 250 kHz		Not defined	UWC 136, 30 kHz option 🔨		

Table 4.2.2.2-1: Radiated spurious emissions requirements (UE)

Test Procedure

Test Data

Environmental Conditions

Temperature	18~22° C
Relative Humidity	45~66%
ATM Pressure	101.1~101.7kPa

Test Result: Pass.

Please refer to following data table.

Page 15 of 22

Report No.: S23081004401007

Idle Mode

WCDMA2100

			-		1	
Frequency (MHz)	Polar (H/V)	Level (dBm)	Factor	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
(ор	eration frequer	cy:Low cha	Innel		
2538.666	Н	-99.69	12.49	-87.20	-47.00	-40.20
5892.333	Н	-87.71	12.98	-74.73	-47.00	-27.73
2689.468	V	-86.41	9.90	-76.51	-47.00	-29.51
4963.397	V	-86.71	21.59	-65.12	-47.00	-18.12
4	Service oper	ation frequence	y:Middle ch	annel		~ ~ ~
2044.216	Н	-87.48	5.40	-82.08	-47.00	-35.08
3157.973	Н	-87.66	13.15	-74.51	-47.00	-27.51
2023.579	V	-88.2	11.30	-76.90	-47.00	-29.90
3210.65	V	-70.88	14.74	-56.14	-47.00	-9.14
	оре	ration frequen	cy: High ch	annel		
2965.294	Н	-98.07	8.14	-89.93	-47.00	-42.93
4403.646	C H	-78.85	17.08	-61.77	-47.00	-14.77
2835.249	V	-87.43	6.29	-81.14	-47.00	-34.14
5499.945	V	-73.22	18.85	-54.37	-47.00	-7.37

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	Туре
V	41.369	-93.32	4.33	-88.99	-57	-31.99	peak
V	101.365	-88.59	2.83	-85.76	-57	-28.76	peak
V	351.773	-89.07	20.49	-68.58	-57	-11.58	peak
V	679.941	-86.09	14.18	-71.91	-57	-14.91	peak
V	734.701	-80.22	3.13	-77.09	-57	-20.09	peak
Н	66.73	-87.6	1.34	-86.26	-57	-29.26	peak
Н	220.5	-85.6	11.44	-74.16	-57	-17.16	peak
Н	330.305	-98.36	10.68	-87.68	-57	-30.68	peak
Н	564.756	-94.89	6.94	-87.95	-57	-30.95	peak
Н	727.012	-88.84	8.42	-80.42	-57	-23.42	peak

Remark:

Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level. The laboratory has completed all tests for normal and extreme voltage conditions and WCDMA+WIFI mode. This report shows only the worst test data.

Page 16 of 22

Report No.: S23081004401007

WCDMA900

Frequency (MHz)	Polar (H/V)	Level (dBm)	Factor	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	oper	ation freque	ency:Low c	hannel		
2515.775	H	-77.89	14.81	-63.08	-47.00	-16.08
3802.635	Н	-88.5	19.18	-69.32	-47.00	-22.32
2355.176	V	-84.33	14.96	-69.37	-47.00	-22.37
5368.45	V	-92.93	17.37	-75.56	-47.00	-28.56
	opera	tion freque	ncy:Middle	channel		
2816.938	Н	-76.82	13.20	-63.62	-47.00	-16.62
3445.067	КН	-91.9	12.58	-79.32	-47.00	-32.32
2064.084	V	-81.59	5.34	-76.25	-47.00	-29.25
4237.053	V	-93.89	15.26	-78.63	-47.00	-31.63
· · · · ·	opera	ation freque	ency: High o	hannel		
2664.155	Н	-94.97	9.04	-85.93	-47.00	-38.93
3353.94	Н	-84.35	21.90	-62.45	-47.00	-15.45
2572.129	V	-72.27	7.97	-64.30	-47.00	-17.30
3582.367	V	-95.61	13.52	-82.09	-47.00	-35.09

Polar	Frequency	Meter Reading	Factor	Emission	Limits	Margin	Detector
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	Туре
V	85.335	-83.95	20.09	-63.86	-57	-6.86	peak
V	234.459	-96.43	17.20	-79.23	-57	-22.23	peak
V	358.568	-77.5	15.59	-61.91	-57	-4.91	peak
V	664.758	-91.65	16.50	-75.15	-57	-18.15	peak
V	804.339	-88.2	15.18	-73.02	-57	-16.02	peak
Н	87.64	-87.08	1.67	-85.41	-57	-28.41	peak
Н	161.943	-91.32	3.74	-87.58	-57	-30.58	peak
Н	336.26	-94.69	18.60	-76.09	-57	-19.09	peak
Н	549.259	-92.38	20.83	-71.55	-57	-14.55	peak
Н	805.884	-94.73	2.19	-92.54	-57	-35.54	peak
Remark							-

Remark:

Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level. The laboratory has completed all tests for normal and extreme voltage conditions and WCDMA+WIFI mode. This report shows only the worst test data.

Report No.: S23081004401007

Traffic Mode WCDMA2100

Frequency (MHz)	Polar (H/V)	Level (dBm)	Factor	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	operatio	on frequency:L	ow channe			
2311.188	Н	-72.94	5.94	-67.00	-30.00	-37.00
3610.401	H-	-76.29	18.26	-58.03	-30.00	-28.03
2709.258	V	-66	11.62	-54.38	-30.00	-24.38
5492.078	V	-75.41	13.37	-62.04	-30.00	-32.04
	operatior	n frequency:Mi	ddle chanr	l		
2928.712	Н	-74.02 🔨	7.86	-66.16	-30.00	-36.16
4515.089	Н	-61.88	16.50	-45.38	-30.00	-15.38
2701.689		-67.56	6.74	-60.82	-30.00	-30.82
4361.858	V	-79.88	16.02	-63.86	-30.00	-33.86
	operatio	n frequency: H	ligh chann	əl	*	
2923.845	Н	-72.6	9.66	-62.94	-30.00	-32.94
5749.176	Н	-64.59	18.03	-46.56	-30.00	-16.56
2242.76		-72.36	8.05	-64.31	-30.00	-34.31
5571.82	V	-71.18	16.37	-54.81	-30.00	-24.81

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	Туре
V	45.775	-63.41	7.32	-56.09	-36	-20.09	peak
V	268.913	-66.36	19.36	-47.00	-36 🎺	-11.00	peak
V	605.92	-60.44	11.06	-49.38	-36	-13.38	peak
V	349.949	-68.44	12.00	-56.44	-36	-20.44	peak
Н	51.547	-59.54	11.62	-47.92	-36	-11.92	peak
Н	203.834	-66.27	19.83	-46.44	-36	-10.44	peak
Н	612.701	-66.79	15.69	-51.10	-36	-15.10	peak
H	414.12	-65.38	9.90	-55.48	-36	-19.48	peak

Remark:

Emission Level = Meter Reading + Factor, Margin= Emission Level – Limit The laboratory has completed all tests for normal and extreme voltage conditions and WCDMA+WIFI mode. This report shows only the worst test data.

Page 18 of 22

Report No.: S23081004401007

WCDMA900

Frequency (MHz)	Polar (H/V)	Level (dBm)	Factor	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
>	or	peration frequenc	y:Low chanr	nel		
2136.926	Н	-60.83	9.99	-50.84	-30.00	-20.84
4928.206	H	-62.62	19.73	-42.89	-30.00	-12.89
2887.38	V	-75.45	9.73	-65.72	-30.00	-35.72
3277.049	V	-69.09	19.54	-49.55	-30.00	-19.55
	ope	eration frequency	:Middle char	nnel		
2876.682	Н	-68.39	8.68	-59.71	-30.00	-29.71
3336.5	H	-77.98	15.57	-62.41	-30.00	-32.41
2435.854	V	-71.32	13.10	-58.22	-30.00	-28.22
4875.37	V	-69.48	14.21	-55.27	-30.00	-25.27
~	ор	eration frequency	y: High chan	nel		
2027.734	H	-65.18	9.92	-55.26	-30.00	-25.26
3503.9	Н	-79.1	12.12	-66.98	-30.00	-36.98
2116.651	V	-60.23	5.84	-54.39	-30.00	-24.39
3435.88	V	-61.24	21.52	-39.72	-30.00	-9.72

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	Туре
V	35.238	-65.13	2.47	-62.66	-36	-26.66	peak
V	200.66	-69.14	0.43	-68.71	-36	-32.71	peak
V	658.355	-63.11	16.71	-46.40	-36	-10.40	peak
V	651.418	-67.93	3.73	-64.20	-36	-28.20	peak
Н	63.857	-67.33	7.55	-59.78	-36	-23.78	peak
Н	128.938	-59.89	3.80	-56.09	-36 🎺	-20.09	peak
H	723.123	-62.55	13.14	-49.41	-36	-13.41	peak
Н	785.234	-65.18	8.44	-56.74	-36	-20.74	peak
Domork							

Remark:

Emission Level = Meter Reading + Factor, Margin= Emission Level – Limit The laboratory has completed all tests for normal and extreme voltage conditions and WCDMA+WIFI mode. This report shows only the worst test data.

§4.3.2 – Control and monitoring functions (UE)

Definition & Limits

This requirement, together with other control and monitoring technical requirements identified in the table of cross references in the applicable part, verifies that the control and monitoring functions of the UE prevent it from transmitting in the absence of a valid network.

This test is applicable to radio communications equipment and ancillary equipment in the operating band defined in the applicable part of this multi-part harmonised standard.

This test shall be performed on the radio communications equipment and/or a representative configuration of the ancillary equipment.

Limits:

The maximum measured power during the duration of the test shall not exceed -30 dBm.

Test method

a) At the start of the test, the UE shall be switched off. The UE antenna connector shall be connected to a power measuring equipment, with the following characteristics:

- the RF bandwidth shall exceed the total operating transmit frequency range of the UE for operation with an applicable part;

the response time of the power measuring equipment shall be such that the measured power has reached within 1 dB of its steady state value within 100 µs of a CW signal being applied;
it shall record the maximum power measured.

NOTE: The equipment may include a video low pass filter to minimize its response to transients or Gaussian noise peaks.

b) The UE shall be switched on for a period of approximately fifteen minutes, and then switched off.c) The EUT shall remain switched off for a period of at least thirty seconds, and shall then be switched on for a period of approximately one minute.

d) The maximum power emitted from the UE throughout the duration of the test shall be recorded. The results obtained shall be compared to the limits in clause 4.2.4.2 in order to prove compliance.

Test Data

Test Condition	Monitoring band	Max Measured Power(dBm)	Limit(dBm)	Result	
Normal	The whole band range	-42.23	-30	Pass	

§4.3.3 —Out-of-synchronization handling of output power

Definition

The UE shall monitor the DPCCH quality in order to detect a loss of the signal on Layer 1. The threshold Qout specifies at what DPCCH quality levels the UE shall shut its power off. The threshold is not defined explicitly, but is defined by the conditions under which the UE shall shut its transmitter off, as stated in this clause.

The DPCCH quality shall be monitored in the UE and compared to the threshold Qout for the purpose of monitoring synchronization. The threshold Qout should correspond to a level of DPCCH quality where no reliable detection of the TPC commands transmitted on the downlink DPCCH can be made. This can be at a TPC command error ratio level of e.g. 20 %.

Limits

When the UE estimates the DPCCH quality over the last 160 ms period to be worse than a threshold Qout, the UE shall shut its transmitter off within 40 ms.

The quality level at the thresholds Qoutcorrespond to different signal levels depending on the downlink conditions DCH parameters. For the conditions in table 4.2.11.2-1, a signal with the quality at the level Qout can be generated by a DPCCH_Ec/lor ratio of -25 dB. The DL reference measurement channel 12,2 kbit/s is specified in ETSI TS 134 121-1 [1], clause C.3.1 and with static propagation conditions. The downlink physical channels, other than those specified in table 4.2.11.2-1, are as specified in table E.3.3 of annex E in ETSI TS 134 121-1 [1].

Parameter	Value	Unit
Î _{or} /I _{oc}		dB
l _{oc}	-60	dBm/3,84 MHz
DPDCH_E _c	 See figure 4.2.11.2-1: Before point A: -16,6 for UEs not supporting enhanced receiver performance type 1 for DCH -19,6 for UEs supporting enhanced receiver performance type 1 for DCH After point A not defined 	dB
DPCCH_E _c	See figure 4.2.11.2-1	dB
nformation Data Rate	12.2	kbit/s

Figure 4.2.11.2-1 and table 4.2.11.2-2 show an example scenario where the DPCCH_Ec/lor ratio varies from a level where the DPCH is demodulated under normal conditions, down to a level below Qout where the UE shall shut its power off.

Page 21 of 22

Test Procedure

Initial conditions

Test environment: normal (see annex B).

The frequencies to be tested are mid range as defined in ETSI TS 134 108 [2], clause 5.1:

1) Connect the SS to the UE antenna connector.

 A call is set up according to the Generic call setup procedure, with the following exception according to table 5.3.10.1.1-1 for information elements in System Information Block type 1 found in ETSI TS 134 108 [2].

Table 5.3.10.1.1-1: System Information Block type 1 message

Value
7, 2
15 s
200

- 3) RF parameters are set up according to table 4.2.11.2-1 with DPCCH_Ec/lor ratio level according To table 4.2.11.2-2, 'before A'.
- 4) Enter the UE into loopback test mode and start the loopback test using the procedure defined in ETSI TS 134 109 [3], clause 5.3.

Test Data

Environmental Conditions

Temperature	18~22° C
Relative Humidity	45~66%
ATM Pressure	101.1~101.7kPa

Test Result: Pass.

Page 22 of 22

Report No.: S23081004401007

