

# SPECTRUM REPORT

## (GSM)

**Applicant:** Shenzhen Huafurui Technology Co., Ltd.  
Unit 1401 &1402, 14/F, Jinqi zhigu mansion (No. 4 building of Chongwen Garden), Crossing of the Liuxian street and Tangling road, Taoyuan street, Nanshan district, Shenzhen,P.R. China

**Address of Applicant:**

### Equipment Under Test (EUT)

Product Name: Smart Phone  
Model No.: CUBOT J9  
Trade mark: CUBOT

**Applicable standards:** ETSI EN 301 511 V12.5.1 (2017-03)

**Date of sample receipt:** 31 Mar., 2020

**Date of Test:** 01 Apr., to 15 Apr., 2020

**Date of report issue:** 27 Apr., 2020

**Test Result:** PASS\*

\* In the configuration tested, the EUT complied with the standards specified above.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The protection requirements with respect to electromagnetic compatibility contained in Directive 2014/53/EU are considered.



Bruce Zhang  
Laboratory Manager



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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## 2 Version

Version No.	Date	Description
00	16 Apr., 2020	Original
01	27 Apr., 2020	Update page 5, Update Hardware Version

Tested by:

*Yao Wu*

Date:

27 Apr., 2020

Test Engineer

Reviewed by:

*Winnier Zhang*

Date:

27 Apr., 2020

Project Engineer

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## 4 Test Summary

Clauses	Description of Test	Result
Clause 4.2.1	Transmitter – Frequency error and phase error	PASS
Clause 4.2.2	Transmitter – Frequency error under multi path and interference conditions	PASS
Clause 4.2.3	Transmitter – Frequency error and Phase Error in HSCSD Multi slot Configuration	N/A
Clause 4.2.4	Frequency error and phase error in GPRS multi slot configuration	PASS
Clause 4.2.5	Transmitter output power and burst timing	PASS
Clause 4.2.6	Transmitter – Output RF spectrum	PASS
Clause 4.2.7	Transmitter output power and burst timing in HSCSD multi slot configuration	N/A
Clause 4.2.8	Transmitter – Output RF spectrum in HSCSD multi slot configuration	N/A
Clause 4.2.9	Transmitter – Output RF spectrum for MS supporting the R-GSM or ER-GSM frequency band	N/A
Clause 4.2.10	Transmitter output power in GPRS multi slot configuration	N/A
Clause 4.2.11	Output RF spectrum in GPRS multi slot configuration	N/A
Clause 4.2.12	Conducted spurious emissions – MS allocated a channel	PASS
Clause 4.2.13	Conducted spurious emission – MS in idle mode	PASS
Clause 4.2.14	Conducted spurious emissions for MS supporting the R-GSM or ER-GSM frequency band – MS allocated a channel	N/A
Clause 4.2.15	Conducted spurious emissions for MS supporting the R-GSM or ER-GSM frequency band – MS in idle mode	N/A
Clause 4.2.16	Radiated spurious emissions – MS allocated a channel	PASS
Clause 4.2.17	Radiated spurious emissions – MS in idle mode	PASS
Clause 4.2.18	Radiated spurious emissions for MS supporting the R-GSM or ER-GSM frequency band – MS allocated a channel	N/A
Clause 4.2.19	Radiated spurious emissions for MS supporting the R-GSM or ER-GSM frequency band – MS in idle mode	N/A
Clause 4.2.20	Receiver blocking and spurious responses – speech channels	PASS
Clause 4.2.21	Receiver blocking and spurious response – speech channels for MS supporting the R-GSM or ER-GSM frequency band	N/A
Clause 4.2.22	Improved Receiver Blocking and spurious response - speech channels for 8W MS supporting the R-GSM or ER-GSM frequency band	N/A
Clause 4.2.23	Improved Receiver Blocking and spurious response – speech channels for 2W MS supporting the R-GSM or ER-GSM frequency band	N/A
Clause 4.2.24	Improved Receiver Blocking and spurious response – control channels for 8W MS supporting the R-GSM or ER-GSM frequency band not supporting speech	N/A
Clause 4.2.25	Improved Receiver Blocking and spurious response – control channels for 2W MS supporting the R-GSM or ER-GSM frequency band not supporting speech	N/A
Clause 4.2.26	Frequency error and Modulation accuracy in EGPRS Configuration	N/A
Clause 4.2.27	Frequency error under multipath and interference conditions in EGPRS Configuration	N/A
Clause 4.2.28	EGPRS Transmitter output power	N/A

Clause 4.2.29	Output RF spectrum in EGPRS configuration	N/A
Clause 4.2.30	Blocking and spurious response in EGPRS configuration	N/A
Clause 4.2.31	Blocking and spurious response in DLMT configuration	N/A
Clause 4.2.32	Intermodulation rejection - speech channels	PASS
Clause 4.2.33	Intermodulation rejection - control channels	N/A
Clause 4.2.34	Intermodulation rejection - EGPRS	N/A
Clause 4.2.35	AM suppression - speech channels	PASS
Clause 4.2.36	AM suppression - control channels	N/A
Clause 4.2.37	AM suppression - packet channels	N/A
Clause 4.2.38	Adjacent channel rejection - speech channels (TCH/FS)	PASS
Clause 4.2.39	Adjacent channel rejection - control channels	N/A
Clause 4.2.40	Adjacent channel rejection - EGPRS	N/A
Clause 4.2.41	Adjacent channel rejection in DLMT configuration	N/A
Clause 4.2.42	Reference sensitivity - TCH/FS	PASS
Clause 4.2.43	Reference sensitivity - FACCH/F	PASS
Clause 4.2.44	Minimum Input level for Reference Performance - GPRS	N/A
Clause 4.2.45	Minimum Input level for Reference Performance - EGPRS	N/A
Clause 4.2.46	Reference sensitivity - TCH/FS for MS supporting the R-GSM or ER-GSM band	N/A
<i>Remark:</i> <i>Pass: Meet the requirement.</i> <i>N/A: Not Applicable.</i>		

## 5 General Information

### 5.1 Client Information

Applicant:	Shenzhen Huafurui Technology Co., Ltd.
Address:	Unit 1401 &1402, 14/F, Jinqi zhigu mansion (No. 4 building of Chongwen Garden), Crossing of the Liuxian street and Tangling road, Taoyuan street, Nanshan district, Shenzhen,P.R. China
Manufacturer/ Factory:	Shenzhen Huafurui Technology Co., Ltd.
Address:	Unit 1401 &1402, 14/F, Jinqi zhigu mansion (No. 4 building of Chongwen Garden), Crossing of the Liuxian street and Tangling road, Taoyuan street, Nanshan district, Shenzhen,P.R. China

### 5.2 General Description of E.U.T.

Product Name:	Smart Phone		
Model No.:	CUBOT J9		
Hardware version:	W956_MB_V1.0_20191228		
Software version:	CUBOT_J9_A021C_V01_20200313		
GPRS class	12		
EGPRS class	N/A		
Modulation technology	<input checked="" type="checkbox"/> GSM	<input checked="" type="checkbox"/> GMSK	
	<input checked="" type="checkbox"/> GPRS:	<input checked="" type="checkbox"/> GMSK (CS1 ~ CS4) <input checked="" type="checkbox"/> Uplink <input checked="" type="checkbox"/> Downlink	
	<input type="checkbox"/> EGPRS	<input type="checkbox"/> GMSK (MCS1 ~ MCS5) <input type="checkbox"/> Uplink <input type="checkbox"/> Downlink	
		<input type="checkbox"/> 8PSK (MCS6 ~ MCS9) <input type="checkbox"/> Uplink <input type="checkbox"/> Downlink	
Operating frequency bands	E-GSM900	Tx: 880---915MHz	
		Rx: 925---960 MHz	
	DCS1800	Tx: 1710---1785 MHz	
		Rx: 1805---1880 MHz	
Antenna Type:	Internal Antenna		
Antenna Gain:	E-GSM900: 1.12 dBi (declare by Applicant) DCS1800: 0.96 dBi (declare by Applicant)		
Power supply:	Rechargeable Li-ion Battery DC3.85V/4200mAh		
AC adapter:	Model No.:TPA-97050100VU Input: AC100-240V, 50/60Hz 0.15A Output: DC 5.0V, 1.0A		

### 5.3 Test environment and mode

Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C, Extreme: -20°C ~ +55°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.85Vdc, Extreme: Low 3.5Vdc, High 4.4Vdc
Test mode:	
GSM mode	Keep the EUT communication with simulated station in GSM Voice mode
GPRS mode	Keep the EUT communication with simulated station in GPRS mode
Note:	
1. All the test environments and test modes required following ETSI TS 151 010-1 and 3GPP TS 05.05.	

### 5.4 Description of Support Units

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	Anritsu	MT8820C	6201026545
Simulated Station	Rohde & Schwarz	CMU200	122477

### 5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Radio Frequency	$\pm 1.2 \times 10^{-9}$
RF Power, Conducted	$\pm 0.64$ dB
Spurious emission, Conducted	$\pm 1.18$ dB
Temperature	$\pm 0.3$ °C
Voltage	$\pm 0.1$ %
Humidity	$\pm 2$ %
Time	$\pm 10$ %
Radiated Emission (30MHz ~ 1000MHz)	$\pm 4.32$ dB
Radiated Emission (1GHz ~ 18GHz)	$\pm 5.38$ dB

### 5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

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. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

### 5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.  
Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,  
Bao'an District, Shenzhen, Guangdong, China  
Tel: +86-755-23118282, Fax: +86-755-23116366  
Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

## 5.8 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020
				03-18-2020	03-17-2021
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020
				03-18-2020	03-17-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020
				03-18-2020	03-17-2021
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020
				03-18-2020	03-17-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020
				03-18-2020	03-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020
				03-18-2020	03-17-2021
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-18-2019	03-17-2020
				03-18-2020	03-17-2021
Signal Generator	Rohde & Schwarz	SMR20	1008100050	03-18-2019	03-17-2020
				03-18-2020	03-17-2021
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020
				03-18-2020	03-17-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020
				03-18-2020	03-17-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020
				03-18-2020	03-17-2021
RF Switch Unit	MWRFTTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTTEST	MTS8200	Version: 2.0.0.0		

Conducted method:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-18-2019	11-17-2020
Vector Signal Generator	Agilent	N5182A	MY49060014	11-18-2019	11-17-2020
Signal Generator	Rohde & Schwarz	SMR20	1008100050	03-18-2019	03-17-2020
				03-18-2020	03-17-2021
Simulated Station	Rohde & Schwarz	CMW500	140493	07-22-2019	07-21-2020
RF Switch Unit	MWRFTTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTTEST	MTS8200	Version: 2.0.0.0		
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	09-25-2019	09-24-2020
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	11-01-2019	10-31-2020



## 6 Radio Requirements Specification in ETSI EN 301 511

### 6.1 Justification

The EUT and test equipment were configured for testing according to ETSI EN 301 511 V12.5.1 (2017-03) and ETSI TS 151 010-1.

The EUT was tested in the normal operating mode to represent worst-case results during the final qualification test.

The EUT was tested with a dummy battery.

### 6.2 Test Configuration of EUT

EGSM 900			DCS 1800		
Channel Number		Frequency (MHz)	Channel Number		Frequency (MHz)
Low channel	975	880.2	Low channel	512	1710.2
Middle channel	60	902.0	Middle channel	700	1747.8
High channel	124	914.8	High channel	885	1784.8

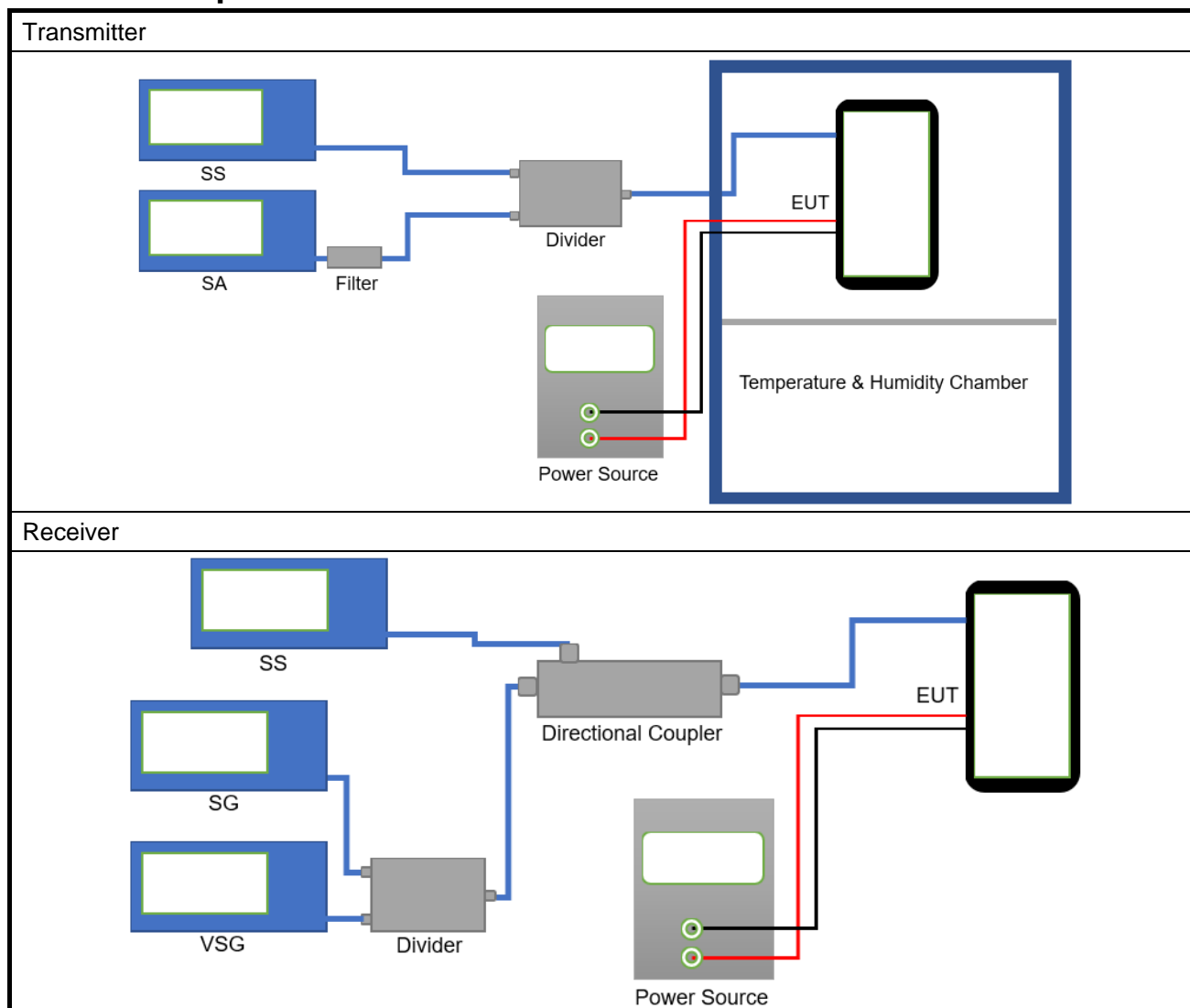
Clause No.	Test Conditions						Test Channel			Modulation		Uplink Slot Allocation	
	NTNV	LTLV	LTHV	HTLV	HTHV	Vib.	Low	Middle	High	GMSK	8PSK	1 slot	4 slots
4.2.1	√	√	√	√	√	√	√	√	√	√		√	
4.2.2	√	√	√	√	√		√	√	√	√		√	
4.2.4	√	√	√	√	√	√	√	√	√	√			√
4.2.5	√	√	√	√	√		√	√	√	√		√	
4.2.6	√	√	√	√	√		√	√	√	√		√	
4.2.10	√	√	√	√	√		√	√	√	√			√
4.2.11	√	√	√	√	√		√	√	√	√			√
4.2.12	√	√	√					√		√		√	
4.2.13	√	√	√					√		√		√	
4.2.16	√	√	√					√		√		√	
4.2.17	√	√	√					√		√		√	
4.2.20	√							√		√		√	
4.2.32	√							√		√		√	
4.2.35	√							√		√		√	
4.2.38	√							√		√		√	
4.2.42	√							√		√		√	
4.2.43	√							√		√		√	
4.2.44	√							√		√		√	

Note:

1. "√" means that this configuration is chosen for test.

2. "NTNV" means Normal Temperature Normal Voltage, "LTLV" means Low Temperature Low Voltage, "LTHV" means Low Temperature High Voltage, "HTLV" means High Temperature Low Voltage, "HTHV" means High Temperature High Voltage. "Vib." means Vibration.

## 6.3 Test Setup Block



## 6.4 Test Results

### 6.4.1 Test Result Summary

Clause No.	Test Mode	Test Condition	Test Band	
			GSM900, DCS1800	
			Test Data	Verdict
4.2.1	GSM	NTNV	Appendix A - GSM - NTNV	Pass
		LTLV	Appendix B - GSM - LTLV	Pass
		LTHV	Appendix C - GSM - LTHV	Pass
		HTLV	Appendix D - GSM - HTLV	Pass
		HTHV	Appendix E - GSM - HTHV	Pass
		Vib.	Appendix F - GSM - Vibration	Pass
4.2.2	GSM	NTNV	Appendix A - GSM - NTNV	Pass
		LTLV	Appendix B - GSM - LTLV	Pass
		LTHV	Appendix C - GSM - LTHV	Pass
		HTLV	Appendix D - GSM - HTLV	Pass
		HTHV	Appendix E - GSM - HTHV	Pass
4.2.5	GSM	NTNV	Appendix A - GSM - NTNV	Pass
		LTLV	Appendix B - GSM - LTLV	Pass
		LTHV	Appendix C - GSM - LTHV	Pass
		HTLV	Appendix D - GSM - HTLV	Pass
		HTHV	Appendix E - GSM - HTHV	Pass
4.2.6	GSM	NTNV	Appendix A - GSM - NTNV	Pass
		LTLV	Appendix B - GSM - LTLV	Pass
		LTHV	Appendix C - GSM - LTHV	Pass
		HTLV	Appendix D - GSM - HTLV	Pass
		HTHV	Appendix E - GSM - HTHV	Pass
4.2.12	GSM	NV	Appendix A - GSM - NTNV	Pass
		LV	Appendix B - GSM - LTLV	Pass
		HV	Appendix C - GSM - LTHV	Pass
4.2.13	GSM	NV	Appendix A - GSM - NTNV	Pass
		LV	Appendix B - GSM - LTLV	Pass
		HV	Appendix C - GSM - LTHV	Pass
4.2.16	GSM	NV	See Section 6.4.2	Pass
		LV	See Section 6.4.2	Pass
		HV	See Section 6.4.2	Pass
4.2.17	GSM	NV	See Section 6.4.3	Pass
		LV	See Section 6.4.3	Pass
		HV	See Section 6.4.3	Pass

## Continued

Clause No.	Test Mode	Test Condition	Test Band	
			GSM900, DCS1800	
			Test Data	Verdict
4.2.20	GSM	NTNV	See Section 6.4.4	Pass
4.2.32	GSM	NTNV	Appendix A - GSM - NTV	Pass
4.2.35	GSM	NTNV	Appendix A - GSM - NTV	Pass
4.2.38	GSM	NTNV	Appendix A - GSM - NTV	Pass
4.2.42	GSM	NTNV	Appendix A - GSM - NTV	Pass
4.2.43	GSM	NTNV	Appendix A - GSM - NTV	Pass

## 6.4.2 Radiated spurious emissions - MS allocated a channel

GSM 900 band: Middle Channel, Normal Voltage				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
44.74	Vertical	-67.82	-36.00	Pass
147.92	V	-69.81		
1804.00	V	-49.96	-30.00	
2706.00	V	-46.75		
3608.00	V	-49.51		
71.58	Horizontal	-73.91	-36.00	
98.14	H	-74.34		
1804.00	H	-43.91	-30.00	
2706.00	H	-46.32		
3608.00	H	-51.42		
GSM 900 band: Middle Channel, Low Voltage				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
44.74	Vertical	-67.89	-36.00	Pass
147.92	V	-69.97		
1804.00	V	-50.32	-30.00	
2706.00	V	-46.72		
3608.00	V	-49.66		
71.58	Horizontal	-74.31	-36.00	
98.14	H	-74.37		
1804.00	H	-43.75	-30.00	
2706.00	H	-46.49		
3608.00	H	-51.60		
GSM 900 band: Middle Channel, High Voltage				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
44.74	Vertical	-68.04	-36.00	Pass
147.92	V	-70.36		
1804.00	V	-50.19	-30.00	
2706.00	V	-47.16		
3608.00	V	-49.86		
71.58	Horizontal	-74.22	-36.00	
98.14	H	-74.31		
1804.00	H	-43.36	-30.00	
2706.00	H	-46.43		
3608.00	H	-51.63		

DCS 1800 band: Middle Channel, Normal Voltage				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
44.74	Vertical	-67.16	-36.00	Pass
147.92	V	-69.85		
3495.60	V	-47.77	-30.00	
71.58	Horizontal	-73.14	-36.00	
98.14	H	-74.39		
3495.60	H	-49.67	-30.00	
DCS 1800 band: Middle Channel, Low Voltage				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
44.74	Vertical	-67.58	-36.00	Pass
147.92	V	-69.36		
3495.60	V	-47.48	-30.00	
71.58	Horizontal	-73.19	-36.00	
98.14	H	-74.63		
3495.60	H	-50.09	-30.00	
DCS 1800 band: Middle Channel, High Voltage				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
44.74	Vertical	-67.36	-36.00	Pass
147.92	V	-68.95		
3495.60	V	-47.40	-30.00	
71.58	Horizontal	-73.12	-36.00	
98.14	H	-74.79		
3495.60	H	-50.51	-30.00	

## 6.4.3 Radiated spurious emissions - MS in idle mode

GSM 900 band: Middle Channel, Normal Voltage				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
44.74	Vertical	-67.82	-57.00	Pass
147.92	V	-69.81		
1804.00	V	-63.16	-47.00	
257.42	Horizontal	-68.68	-57.00	
284.98	H	-67.36		
1804.00	H	-63.25	-47.00	
GSM 900 band: Middle Channel, Low Voltage				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
44.74	Vertical	-68.32	-57.00	Pass
147.92	V	-69.62		
1804.00	V	-62.70	-47.00	
257.42	Horizontal	-68.95	-57.00	
284.98	H	-66.99		
1804.00	H	-63.55	-47.00	
GSM 900 band: Middle Channel, High Voltage				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
44.74	Vertical	-68.65	-57.00	Pass
147.92	V	-69.87		
1804.00	V	-62.45	-47.00	
257.42	Horizontal	-68.91	-57.00	
284.98	H	-67.00		
1804.00	H	-63.69	-47.00	

DCS 1800 band: Middle Channel, Normal Voltage				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
44.74	Vertical	-67.41	-57.00	Pass
147.92	V	-69.25		
3495.60	V	-61.48	-47.00	
257.42	Horizontal	-68.41	-57.00	
284.98	H	-67.33		
3495.60	H	-61.92	-47.00	
DCS 1800 band: Middle Channel, Low Voltage				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
44.74	Vertical	-67.67	-57.00	Pass
147.92	V	-69.57		
3495.60	V	-61.37	-47.00	
257.42	Horizontal	-68.88	-57.00	
284.98	H	-67.30		
3495.60	H	-61.78	-47.00	
DCS 1800 band: Middle Channel, High Voltage				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
44.74	Vertical	-67.95	-57.00	Pass
147.92	V	-69.63		
3495.60	V	-61.14	-47.00	
257.42	Horizontal	-69.37	-57.00	
284.98	H	-67.38		
3495.60	H	-61.84	-47.00	



## 6.4.4 Receiver blocking and spurious responses – speech channels

### GSM 900 band:

Channel frequency (MHz)	FBER (%)	Number of test samples	Limit (%)	Result
880.2	0.000	10000	2.439	pass
902.0	0.000	10000	2.439	pass
914.8	0.000	10000	2.439	pass

### DCS 1800 band:

Channel frequency (MHz)	FBER (%)	Number of test samples	Limit (%)	Result
1710.2	0.000	10000	2.439	pass
1747.8	0.000	10000	2.439	pass
1784.8	0.000	10000	2.439	pass

## 7 Test Setup Photo

Radiated Spurious Emission  
Below 1GHz



Above 1GHz



## 8 EUT Constructional Details

Reference to the test report No. CCISE200311701

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