



## TEST REPORT

### ETSI EN 301 511 V12.5.1 (2017-03)

**Report Reference No.** ..... : **TZ190100535-GSM**

Compiled by

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Date of issue ..... : 2019/1/28



**Testing Laboratory Name**..... : Shenzhen Tongzhou Testing Co.,Ltd

**Address** ..... : 1th Floor, Building 1, Haomai High-tech Park, Huating Road 387, Dalang Street, Longhua, Shenzhen, China

**Applicant's name** ..... : SHENZHEN DIBET TECHNOLOGY CO., LTD.

**Address** ..... : Floor 1, Research Building, Tsinghua Hi-tech park, Nanshan district, Shenzhen, Guangdong, China

**Test specification**..... :

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

TRF Originator ..... : Shenzhen Tongzhou Testing Co.,Ltd

Master TRF ..... : Dated 2017-01

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**Test item description**..... : Smart Watch

Trade Mark..... : N/A

Manufacturer ..... : SHENZHEN DIBET TECHNOLOGY CO., LTD.

Model/Type reference ..... : CGTW1

**List Model**..... : CGTW1,CGTW2,CGTW3,CGTW4,CGTW7,CGTW7PLUS,CGTW15, CGTW15PLUS,CGTW16,CGTW16PLUS,CGTW17, CGTW18, CGTW19,CGTW20,GTW5,GTW6,GTW7,GTW8,GTW9

Modulation..... : GMSK,8PSK

Multislot Class ..... : GPRS:Multi-slot Class 12

Frequency Band..... : GSM900/DCS1800



Operation Frequency .....	GSM900:880MHz-915MHz
	DCS1800:1710MHz-1785MHz
Power Class .....	GSM900:Power Class 4/DCS1800:Power Class 1
Ratings .....	DC 5V
Hardware Version .....	G72S-MB-V2.6
Software Version.....	G72F_V1
Result .....	<b>PASS</b>

**TEST REPORT**

<b>Test Report No. :</b>	<b>TZ190100535-GSM</b>	2019/1/28
		Date of issue

Equipment under Test : Smart Watch

Model /Type : CGTW1

Listed Models : Refer to Page 1

**Applicant** : SHENZHEN DIBET TECHNOLOGY CO., LTD.

Address : Floor 1,Research Building,Tsinghua Hi-tech park,Nanshan district,  
Shenzhen,Guangdong,China

**Manufacturer** : SHENZHEN DIBET TECHNOLOGY CO., LTD.

Address : Floor 1,Research Building,Tsinghua Hi-tech park,Nanshan district,  
Shenzhen,Guangdong,China

<b>Test Result</b>	<b>PASS</b>
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



**\*\* Modified History \*\***

<b>Revision</b>	<b>Description</b>	<b>Issued Data</b>	<b>Remark</b>
Revision 1.0	Initial Test Report Release	2019/1/28	Andy Zhang



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## **1. TEST STANDARDS**

The tests were performed according to following standards:

[ETSI EN 301 511 V12.5.1 \(2017-03\)](#)

Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

[ETSI TS 151 010-1 V13.2.0 \(2016-12\)](#)

Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station (MS) conformance specification; Part 1: Conformance specification (3GPP TS 51.010-1 version 13.2.0 Release 13)

[3GPP TS 51.010-1 V13.3.0 \(2016-12\)](#)

–3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification (Release 13)



## 2. SUMMARY

### 2.1. General Remarks

Date of receipt of test sample	:	2019/1/10
Testing commenced on	:	2019/1/10
Testing concluded on	:	2019/1/28

### 2.2. Product Description

Name of EUT	Smart Watch
Model(s) Number	CGTW1
List Models	Refer to Page 1
Difference description	All the same except for the appearance and model name.
Hardware version	G72S-MB-V2.6
Software version	G72F_V1
Antenna Type	Integral

Wireless Type	Working Frequency	Modulation Type	Version
GNSS	GPS/GLONASS/Galileo:1559 MHz to 1610 MHz	BPSK	/
WLAN	IEEE 802.11b:2412-2472MHz IEEE 802.11g:2412-2472MHz IEEE 802.11n HT20:2412-2472MHz	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK)	/
<input checked="" type="checkbox"/> GSM <input checked="" type="checkbox"/> GPRS <input checked="" type="checkbox"/> EGPRS	NON-EU BAND: GSM850: 824-849MHz (TX), 869-894MHz (RX); DCS1900: 1850-1910 MHz (TX), 1930-1990 MHz (RX)  EU-BAND: E-GSM900: 880-915MHz (TX), 925-960MHz (RX); DCS1800: 1710-1785 MHz (TX), 1805-1880 MHz (RX)	GMSK, 8PSK	R99



### 2.3. Power supply system utilised

Power supply voltage	:	<input type="radio"/>	230V / 50 Hz	<input type="radio"/>	115V / 60Hz
		<input type="radio"/>	12 V DC	<input type="radio"/>	24 V DC
		<input checked="" type="radio"/>	Other (specified in blank below)		

DC 5V

#### Test frequency list

Frequency Band	Test Channel	Test Frequency
GSM900	Low (975)	880.20 MHz
	Middle (37)	897.40 MHz
	High (124)	914.80 MHz
DCS1800	Low (512)	1710.20 MHz
	Middle (698)	1747.40 MHz
	High (885)	1784.80 MHz



## 2.4. EUT operation mode

The EUT and test equipment were configured for testing according to ETSI EN 301 511 V12.1.10 (2016-12), where refer to ETSI TS 151 010-1 V13.2.0 (2016-12) & 3GPP TS 51.010-1 V13.3.0 (2016-12) for details.

## 2.5. Configuration of Tested System

Fig. 2-1 Configuration of Tested System

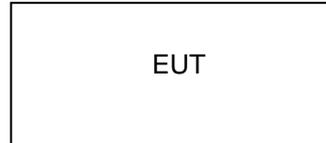


Table 2-1 Equipment Used in Tested System

## 2.6. EUT configuration

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

- - supplied by the manufacturer
- - Supplied by the lab

<input type="radio"/>	Power Cable	Length (m) :	/
		Shield :	/
		Detachable :	/
<input type="radio"/>	Multimeter	Manufacturer :	/
		Model No. :	/

- adapter information  
这里要删除了!

## 2.7. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt	Type of Test
N01	N/A	G72S-MB-V2.6	G72F_V1	2018/1/10	Radio
N02	N/A	G72S-MB-V2.6	G72F_V1	2018/1/10	SAR (EMF)

## 2.8. Modifications

No modifications were implemented to meet testing criteria.

**2.9. NOTE**

Function	Test Standards	Reference Report
GSM	ETSI EN 301 511 V12.1.1 (2017-04)	TZ190100535-GSM
GNSS	ETSI EN 303 413 V1.1.1 (2017-06)	TZ190100535-GNSS
WLAN	ETSI EN 300 328 V2.1.1 (2016-11)	TZ190100535-WLAN
EMC	Draft ETSI EN 301 489-1 V2.2.0 (2017-03) Draft ETSI EN 301 489-17 V3.2.0 (2017-03) Draft ETSI EN 301 489-19 V2.1.0 (2017-03) Draft ETSI EN 301 489-52 V1.1.0 (2016-11) EN 55032: 2015 EN 55035: 2017 EN 61000-3-2: 2014 EN 61000-3-3: 2013	TZ190100535-RE



### 3. TEST ENVIRONMENT

#### 3.1. Address of the test laboratory

Shenzhen Tongzhou Testing Co.,Ltd  
1th Floor, Building 1, Haomai High-tech Park, Huating Road 387, Dalang Street, Longhua, Shenzhen,  
China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2003) and CISPR Publication 22.

#### 3.2. Environmental conditions

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

Normal Temperature: 25°C

High Temperature: 55°C

Low Temperature: -10°C

Normal Voltage : DC 5V

High Voltage: DC 5.5V

Low Voltage: DC 4.5V

Relative Humidity: 55 %

Air Pressure: 989 hPa

#### 3.3. PICS/PIXIT Information

Table 1: Type of Mobile Station (Re. ETSI EN 301 511 Annex B.1)

Item	Type of Mobile Station	Support	Mnemonic
1	HSCSD Multislot MS	NO	Type_HSCSD_Multislot
2	R-GSM MS	NO	Type_R-GSM
3	Support of GPRS Multislot class on the uplink	YES	Type_GPRS_Multislot_uplink
4	EGPRS	YES	Type_EGPRS
5	EGPRS capable of 8PSK in Uplink, of all Multislot classes	YES	Type_EGPRS_8PSK_uplink
6	ER-GSM MS	NO	Type_ER-GSM
7	DLMC MS	NO	Type_DLMC
8	8W Improved Receiver R-GSM MS/ER-GSM MS	NO	Type_8W_Improved_Receiver
9	2W Improved Receiver R-GSM MS/ER-GSM MS	NO	Type_2W_Improved_Receiver

Table 2: Additional information (Re. ETSI EN 301 511 Annex C.1)

Item	Additional Information	Support	Mnemonic
1	Telephony.	YES	TSPC_Serv_TS11
2	Permanent Antenna Connector	YES	TSPC_AddInfo_PermAntenna
3	Handheld stations with Integrated Antenna	YES	TSPC_AddInfo_HHIntegAntenna



### 3.4. Test Description

#### 3.5.1 Main Terms

Verdict Verdict of each test cases.  
 Test Case Test cases identification number and description in 3GPP test specification and ETSI specification.

#### 3.5.2 Terms used in Condition column

NTC Normal voltage, Normal Temperature  
 HV High voltage, Normal Temperature  
 LV Low voltage, Normal Temperature  
 HTHV High voltage, High Temperature  
 LTHV High voltage, Low Temperature  
 HTLV Low voltage, High Temperature  
 LTLV Low voltage, Low Temperature  
 Vib Vibration

#### 3.5.3 Terms used in Verdict column

Pass This test cases has been tested, and EUT is conformant to the applied standards in the given frequency band.  
 Fail This test cases has been tested, but EUT is not conformant to the applied standards in the given frequency band.  
 N/A This test case is either not required/not applicable in the specified band or is not applicable according to the specific PICS/PIXIT for the EUT.  
 Inc Test case result is ambiguous in the given frequency band.  
 Decl Declaration is received from the client to demonstrate the conformity to the relevant specification in the given frequency band.  
 BR This test cases is not tested in the given frequency band, but this testcases was tested with pass result for the initial model in the given frequency band.

#### 3.5.4 Sumarry Test Results

ETSI EN 301 511 Requirement						
Teat Case in ETSI TS 151 010-1	Test case description	Test Condition	GSM900		GSM1800	
			Verdict	EUT	Verdict	EUT
12.1.1	Conducted spurious emissions - MS allocated a channel	NTC	Pass	01	Pass	01
		VH	Pass	01	Pass	01
		VL	Pass	01	Pass	01
12.1.2	Conducted spurious emissions - MS in idle mode	NTC	Pass	01	Pass	01
		VH	Pass	01	Pass	01
		VL	Pass	01	Pass	01
12.2.1	Radiated spurious emissions - MS allocated a channel	NTC	Pass	01	Pass	01
12.2.2	Radiated spurious emissions - MS in idle mode	NTC	Pass	01	Pass	01
13.1	Transmitter – Frequency error and phase error	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
		Vib-x	Pass	01	Pass	01
		Vib-y	Pass	01	Pass	01
Vib-z	Pass	01	Pass	01		
13.2	Transmitter – Frequency error under multipath and interference conditions	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01



ETSI EN 301 511 Requirement						
Teat Case in ETSI TS 151 010-1	Test case description	Test Condition	GSM900		GSM1800	
			Verdict	EUT	Verdict	EUT
13.3.4.1	Transmitter output power and burst timing	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
13.4	Transmitter - Output RF spectrum	Modulation , normal	Pass	01	Pass	01
		Modulation, detailed	Pass	01	Pass	01
		spurious	Pass	01	Pass	01
		switching, normal	Pass	01	Pass	01
		THVH, modulation	Pass	01	Pass	01
		THVH, switching	Pass	01	Pass	01
		THVL, modulation	Pass	01	Pass	01
		THVL, switching	Pass	01	Pass	01
		TLVH, modulation	Pass	01	Pass	01
		TLVH, switching	Pass	01	Pass	01
		TLVL, modulation	Pass	01	Pass	01
		TLVL, switching	Pass	01	Pass	01
14.6.1	Intermodulation rejection - speech channels	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
14.6.2	Intermodulation rejection - control channels	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
14.8.1	AM suppression - speech channels	NTC	Pass	01	Pass	01
14.8.2	AM suppression - control channels	NTC	Pass	01	Pass	01
14.8.3	AM suppression - packet channels	NTC	Pass	01	Pass	01
14.5.2	Receiver Blocking and spurious response - speech channels	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
14.5.1.1	Adjacent channel rejection - speech channels (TCH/FS)	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
14.5.2	Adjacent channel rejection - control channels	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01



ETSI EN 301 511 Requirement						
Teat Case in ETSI TS 151 010-1	Test case description	Test Condition	GSM900		GSM1800	
			Verdict	EUT	Verdict	EUT
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
14.2.1	Reference sensitivity - TCH/FS	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
		NTC	Pass	01	Pass	01
14.2.3	Reference sensitivity - FACCH/F	THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
		NTC	Pass	01	Pass	01
13.16.1	Frequency error and phase error in GPRS multislot configuration	THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
		Vib-x	Pass	01	Pass	01
		Vib-y	Pass	01	Pass	01
		Vib-z	Pass	01	Pass	01
		NTC	Pass	01	Pass	01
13.16.2-1	Transmitter output power in GPRS multislot configuration	THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
		NTC	Pass	01	Pass	01
13.16.3	Output RF spectrum in GPRS multislot configuration	Modulation, normal	Pass	01	Pass	01
		Modulation, detailed	Pass	01	Pass	01
		spurious	Pass	01	Pass	01
		switching, normal	Pass	01	Pass	01
		THVH, modulation	Pass	01	Pass	01
		THVH, switching	Pass	01	Pass	01
		THVL, modulation	Pass	01	Pass	01
		THVL, switching	Pass	01	Pass	01
		TLVH, modulation	Pass	01	Pass	01
		TLVH, switching	Pass	01	Pass	01
		TLVL, modulation	Pass	01	Pass	01
		TLVL, switching	Pass	01	Pass	01
		14.16.1	Minimum Input level for Reference Performance - GPRS	NTC	Pass	01
THVH	Pass			01	Pass	01
THVL	Pass			01	Pass	01
TLVH	Pass			01	Pass	01
TLVL	Pass			01	Pass	01
13.7.1	Frequency Error and Modulation accuracy in EGPRS Configuration	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01



ETSI EN 301 511 Requirement						
Teat Case in ETSI TS 151 010-1	Test case description	Test Condition	GSM900		GSM1800	
			Verdict	EUT	Verdict	EUT
		TLVL	Pass	01	Pass	01
13.7.2	Frequency error under multipath and interference conditions in EGPRS Configuration	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
13.7.3	EGPRS Transmitter output power	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
13.7.4	Output RF spectrum in EGPRS configuration	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
14.18.5	Blocking and spurious response in EGPRS configuration	NTC	Pass	01	Pass	01
14.18.4	Intermodulation rejection - EGPRS	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
14.18.3	Adjacent channel rejection- EGPRS	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01
14.18.1	Minimum Input level for Reference Performance - EGPRS	NTC	Pass	01	Pass	01
		THVH	Pass	01	Pass	01
		THVL	Pass	01	Pass	01
		TLVH	Pass	01	Pass	01
		TLVL	Pass	01	Pass	01

Remark: 1. The measurement uncertainty is not included in the test result;

### 3.5. Statement of the measurement uncertainty

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

Hereafter the best measurement capability for Shenzhen Tongzhou Testing Co.,Ltd is reported:

3GPP TS 51.010-1	Test Description	Uncertainty
12.1.1	Conducted spurious emissions-MS Allocated a Channel Emissions@100kHz<f<2GHz Emissions@2GHz <f<12.75GHz	0.593dB 1.123 dB
12.1.2	Conducted spurious emissions- MS in Idle Mode	



	Emissions@100kHz<f<2GHz Emissions@2GHz <f<12.75GHz	0.649 dB 1.123 dB
12.2.1 12.2.2	Radiated spurious emissions	2.2dB
13.1 13.2 13.16.1 13.17.1 13.17.2	Frequency error and phase error Frequency error under multipath and interference conditions Frequency error and phase error in GPRS multislot configuration Frequency error and Modulation accuracy in EGPRS Configuration Frequency error under multipath and interference conditions in EGPRS Configuration	Freq Err<11.5Hz RMS Phase Err 1.0degrees Peak Phase Error 4.0degrees
13.3.4.1 13.16.2.4.1 13.17.3.4.1	Transmitter output power and burst timing Transmitter output power in GPRS multislot configuration EGPRS Transmitter output power	0.593dB
13.4 13.16.3 13.17.4	Output RF spectrum Transmitter output power in GPRS(or EGPRS)multislot configuration	0.593dB
14.7.1 14.18.5	Receiver Blocking and spurious response - speech channels Blocking and spurious response in EGPRS Configuration Wanted Signal@f<2GHz Blocking Signal@100kHz<f<2GHz Blocking Signal@2GHz<f<12.75GHz	0.649 dB 0.593 dB 1.035 dB



### 3.6. Equipments Used during the Test

Name	Model/Type	S/N	Calibrated date	Available date	Manufacture
966 SAR	--	--	2016/11/14	2019/11/13	Tonscend
EMI test receiver	ESCI-7	100849/003	2019/1/3	2020/1/2	R&S
Postional Controller	MF7802	MF780208450			MF
wideband Antenna	VULB 9163	958	2018/11/20	2020/11/19	schwarzbeck
Horn Antenna	9120D-1141	1574	2018/11/20	2020/11/19	schwarzbeck
Horn Antenna	3117	00218874	2018/11/20	2020/11/19	ETS
Pre-amplifier	BBV 9743	209	2019/1/3	2020/1/2	schwarzbeck
Pre-amplifier	TSAMP-0518SE	--	2019/1/3	2020/1/2	Tonscend
MXA Signal Analyzer	N9020A	MY52091623	2019/1/3	2020/1/2	Keysight
Signal Generator	N5182A	MY4620709	2019/1/3	2020/1/2	Keysight
Signal Generator	83752A	3610A01069	2019/1/3	2020/1/2	Keysight
Programmable DC source	E3642A	DS-0001	2019/1/3	2020/1/2	Keysight
UNIVERSAL RADIO COMMUNICATION	CMW500	103974	2019/1/3	2020/1/2	R&S

## 4. TEST CONDITIONS AND RESULTS

### 4.1.1. Conducted Maximum Output Power

Type	GSM900	GSM1800
GSM	32.42	30.91
GPRS	31.73	30.57
EDGE(8PSK)	27.13	26.84

## **5. Test Set-up Photos of the EUT**





## **6. External and Internal Photos of the EUT**

Reference to the test report No. TZ190100535-RE

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