

# **TEST REPORT**

Applicant:	GSM GLOBE.COM INC			
Address of Applicant:	8212 NW 30 TERRACE, DORAL, Florida 33122, United States			
Manufacturer/Factory:	Z-TECH COMMUNICATION(SZ)CO LTD			
Address of Manufacturer/Factory: Equipment Under Test (E	7/F BLK D BAO'AN ZHI'GU YIN'TIAN RD. NO.4 XI'XIANG ST' BAO'AN SZ CN <b>JT)</b>			
Product Name:	MOBILE PHONES			
Model No.:	F11			
Trade Mark:	GOL			
FCC ID:	2AEJAF11			
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B			
Date of sample receipt:	August 18, 2020			
Date of Test:	August 18-28, 2020			
Date of report issued:	August 28, 2020			
Test Result :	PASS *			

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

Authorized Signature:

8019

Robinson Lo Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



## 2 Version

Version No.	Date	Description
00	August 28, 2020	Original

Prepared By:

Date:

August 28, 2020

Project Engineer

Check By:

6 Reviewer

Date:

August 28, 2020

## Report No.: GTS202008000140F05

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## 4 Test Summary

Test Item	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission	FCC Part15.107	ANSI C63.4	Class B	PASS
Radiated Emissions #	FCC Part15.109	ANSI C63.4	Class B	PASS

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.

2. # Refer to FCC Part 15.33 (b)(1) conditional testing procedure :

The highest frequency generated or used in the EUT	Test frequency range of Radiated emission
<108MHz	30MHz ~ 1GHz
108MHz ~ 500MHz	30MHz ~ 2GHz
500MHz ~ 1GHz	30MHz ~ 5GHz
>1GHz	30MHz ~ 5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Note: the EUT Internal clock frequency above 108MHz.

### **Measurement Uncertainty**

Test Item	Frequency Range Measurement Uncertainty		Notes	
Radiated Emission	30MHz-200MHz 3.8039dB		(1)	
Radiated Emission	200MHz-1GHz	3.9679dB	(1)	
Radiated Emission	1GHz-18GHz 4.29dB		(1)	
AC Power Line Conducted Emission0.15MHz ~ 30MHz3.44dB(1				
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.	



# **5** General Information

## 5.1 General Description of EUT

Product Name:	MOBILE PHONES	
Model No.:	F11	
Serial No.:	JY200721000036	
Hardware Version:	Y891_MB_V2	
Software Version:	GOL_F11_V03	
Test sample(s) ID:	GTS202008000140-2	
Sample(s) Status:	Normal sample	
Power Supply:	Adaptor	
	Model: F10	
	Input: AC 100-240V, 50/60Hz, 0.15A	
	Output: DC 5.0V, 1Amp	
	Or	
	Battery: DC 3.8V, 3000mAh	

## 5.2 Test mode and Test voltage

Test mode:			
PC mode Keep the EUT in exchanging data mode.			
REC mode	Keep the EUT in REC mode.		
Video play mode	Keep the EUT in Video play mode.		
Test voltage			
AC 120V and DC 3.8V			

## 5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
Lenovo	Notebook PC	E40-80	N/A
Apple	PC	A1278	C1MN99ERDTY3

## 5.4 Deviation from Standards

None.

## 5.5 Abnormalities from Standard Conditions

None.

## 5.6 Test Facility

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

### • FCC — Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

#### • IC — Registration No.: 9079A

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A.

#### • NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

## 5.7 Test Location

The test was performed at: Global United Technology Services Co., Ltd. Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

# 6 Test Instruments list

Radiated Emission:								
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 02 2020	July. 01 2025		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 25 2020	June. 24 2021		
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021		
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021		
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021		
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021		
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021		
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021		
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021		
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021		
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021		
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021		
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021		
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021		
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021		
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021		
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021		
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 19 2019	Oct. 18 2020		
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 19 2019	Oct. 18 2020		
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 19 2019	Oct. 18 2020		
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021		



Con	Conducted Emission						
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021	
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 25 2020	June. 24 2021	
4	ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 25 2020	June. 24 2021	
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A	
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
7	Thermo meter	KTJ	TA328	GTS233	June. 25 2020	June. 24 2021	
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 25 2020	June. 24 2021	
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 25 2020	June. 24 2021	

Gene	General used equipment:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021		
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021		



# 7 Test Results and Measurement Data

## 7.1 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109				
Test Method:	ANSI C63.4:20	14			
Test Frequency Range:	30MHz to 6000	MHz			
Test site:	Measurement D	Distance: 3m (S	Semi-Anecho	ic Chambe	r)
Receiver setup:	Frequency 30MHz- 1GHz	Frequency Detector 30MHz- Quasi-peak		VBW 300kHz	Remark Quasi-peak Value
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Value
Limit:	Freque	ency	Limit (dBuV	/m @3m)	Remark
	30MHz-8	88MHz	40.0	0	Quasi-peak Value
	88MHz-2	16MHz	43.5	0	Quasi-peak Value
	216MHz-9	60MHz	46.0	0	Quasi-peak Value
	960MHz	960MHz-1GHz 54.00 G			
			54.0	0	Average Value
	Above	Above 1GHz 74.00			Peak Value
	AE EUT Ground Reference Plane Test Receiver Test Receiver Test Receiver				
	For radiated emissions above 1GHz				
		T 3m Ground Reference Plane	torn Antenna Towe		

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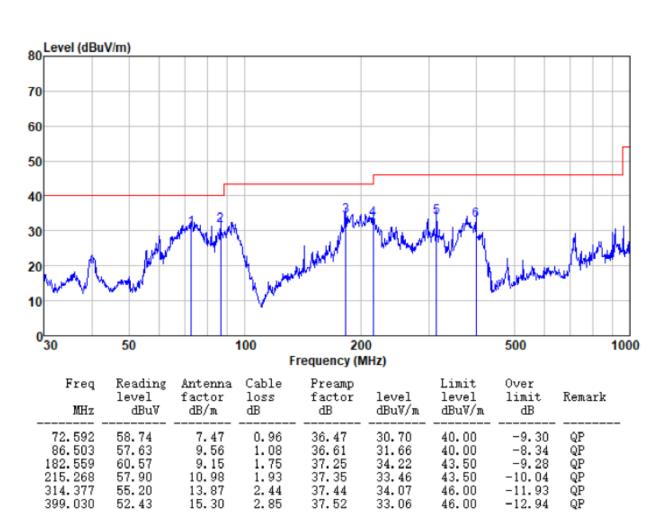
	Report No.: GTS202008000140F05			
Test Procedure:	<ol> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak</li> </ol>			
	values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then report in a data sheet.			
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1 012mbar			
Test Instruments:	Refer to section 6 for details			
Test mode:	Refer to section 5.2 for details, only show the worst case.			
Test results:	Pass			



#### **Measurement Data**

#### **Below 1GHz**

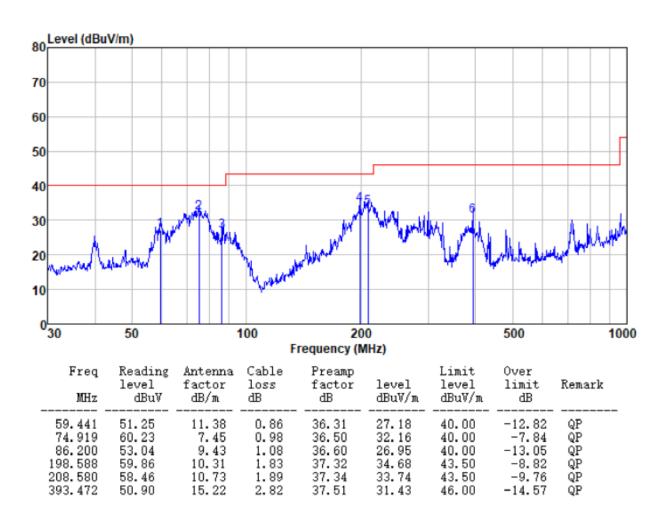
Test mode:         PC mode         Antenna Polarity:         Horizontal	
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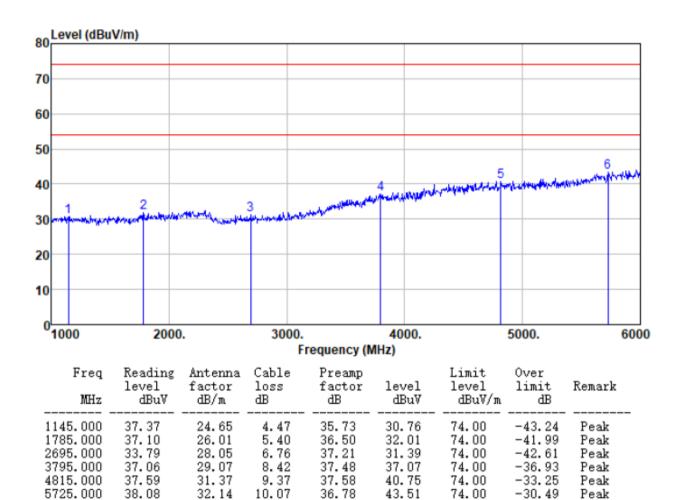
Test mode: PC mode	Antenna Polarity:	Vertical
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#### Above 1GHz

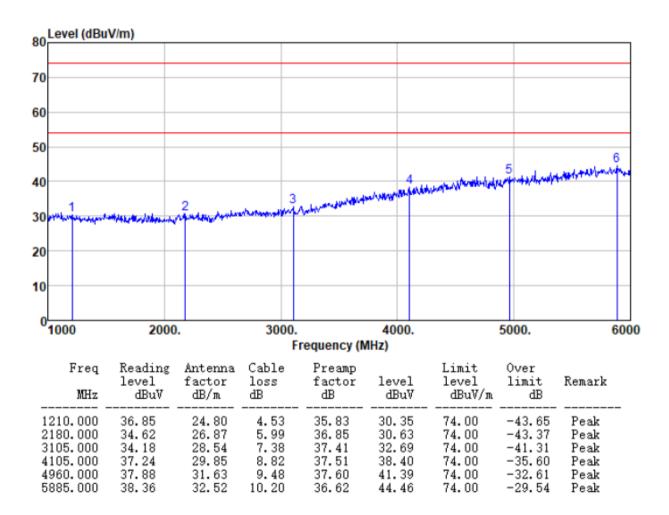
Test mode: PC mode	Antenna Polarity:	Horizontal
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Report No.: GTS202008000140F05

Test mode:	PC mode	Antenna Polarity:	Vertical



Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

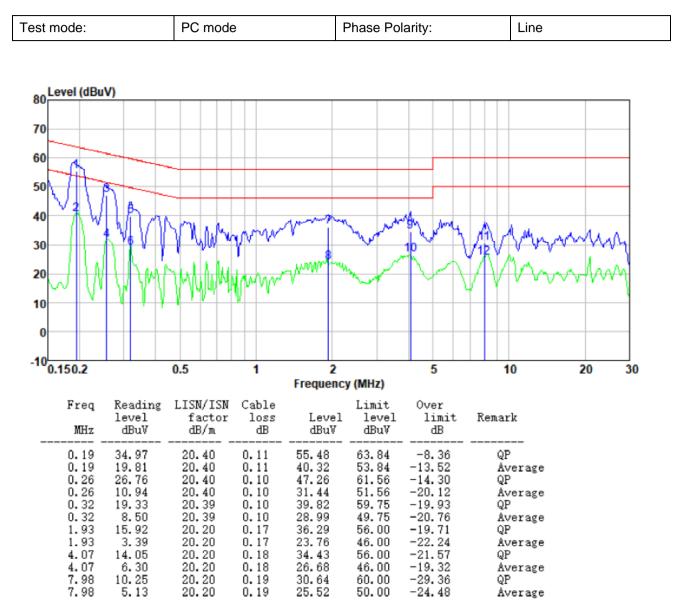
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

## 7.2 Conducted Emissions

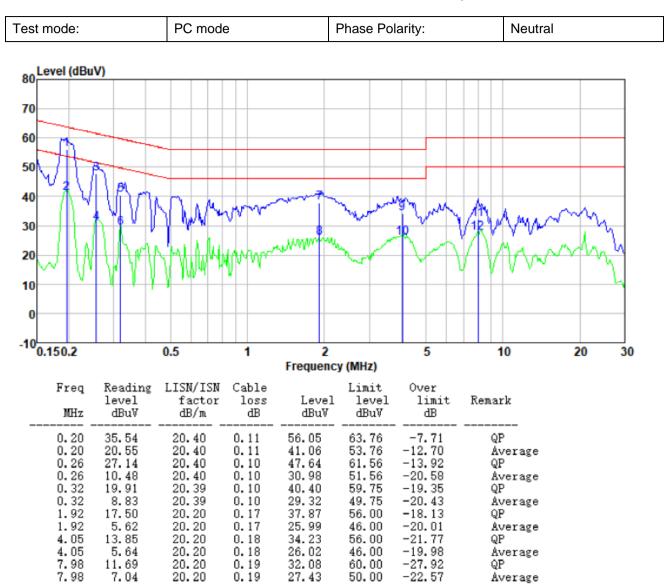
Test Requirement:	FCC Part15 B Section 15.107			
Test Method:	ANSI C63.4:2014			
Test Frequency Range:	150kHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:				
Linnt.	Frequency range (MHz)	Limit (c Quasi-peak	- <i>i</i>	
	0.15-0.5	66 to 56*	Average 56 to 46*	
	0.5-5	56	46	
	0.5-30	60	50	
Test setup:	Reference Plane			
Test procedure	<ul> <li>I. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance</li> </ul>			
Test environment: Test Instruments:	<ul> <li>with 50ohm termination. ( test setup and photograp)</li> <li>Both sides of A.C. line are interference. In order to fi positions of equipment ar changed according to AN measurement.</li> <li>Temp.: 25 °C Humin Refer to section 6 for details</li> </ul>	hs). e checked for maximur nd the maximum emis nd all of the interface c ISI C63.4: 2014 on cor	m conducted sion, the relative ables must be nducted	
Test mode:	Refer to section 5.2 for details, only show the worst case.			
Test results:	Pass			

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### Measurement Data



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Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

## 8 Test Setup Photo

Reference to the **appendix I** for details.

## 9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----