

FCC Test Report

Report No.: AGC02294190701FE08

FCC ID : 2AJGM-UV-E70
PRODUCT DESIGNATION : PORTABLE RADIO
BRAND NAME : BAOFENG, Pofung
MODEL NAME : UV-E70,ZT-60UV,GT-A60,TC-688,AR-2UV,RH-UV2,
TR-988UV,TF-558,BF-TC70,UV-E80
APPLICANT : PO FUNG ELECTRONIC(HK) INTERNATIOANL
GROUP COMPANY
DATE OF ISSUE : July 24, 2019
STANDARD(S) : FCC Part 15 Rules
REPORT VERSION : V 1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	July 24, 2019	Valid	Initial Release



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1. VERIFICATION OF COMPLIANCE

Applicant	PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY
Address	3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN, Hong Kong
Manufacturer	PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY
Address	3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN, Hong Kong
Factory	PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY
Address	3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN, Hong Kong
Product Designation	PORTABLE RADIO
Brand name	BAOFENG, Pofung
Test Model	UV-E70
Serial Model	ZT-60UV,GT-A60,TC-688,AR-2UV,RH-UV2,TR-988UV,TF-558,BF-TC70,UV-E80
Serial Model Difference	Same product, different models and trademarks, only the shell design style is different
Hardware Version	WT-BF-T60-V03
Software Version	V1.0.0.0
Measurement Procedure	ANSI C63.4: 2014
Date of test:	July 05, 2019 to July 23, 2019
Deviation:	None
Condition of Test Sample	Normal

The above equipment was tested by Attestation Of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2014. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested By



Calvin Liu(Liu Junchen) July 23, 2019

Reviewed By



Max Zhang(Zhang Yi) July 24, 2019

Approved By



Forrest Lei(Lei Yonggang)
Authorized Officer July 24, 2019



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2. PRODUCT INFORMATION

The EUT is a **PORTABLE RADIO** designed for voice communication. It is designed by way of utilizing the F3E modulation achieves the system operating.

A major technical description of EUT is described as following:

Communication Type	Voice / Tone only
Modulation	FM
RX Frequency Range	Rx:136 MHz -174 MHz, 400MHz -480MHz
Emission Type	F3E
Antenna Designation	Detachable
Antenna Gain	2.15dBi
Power Supply	DC 7.4V 2800mAh, charging with DC 8.4V.
Adapter Parameter	INPUT:AC 110-240V~ 50/60Hz ,0.3A OUTPUT:DC 10V 0.5A
Charger Parameter	INPUT: DC 10V 0.5A OUTPUT:DC 8.4V 0.4A

I/O Port Information (☒Applicable ☐Not Applicable)

I/O Port of EUT			
I/O Port Type	Q'TY	Cable	Tested with
Antenna Connect Port	1	0	1



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3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

List Of Test Equipment:

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug.19, 2018	Aug.18, 2019

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.06, 2018	Dec.05, 2019
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2018	Sep.19, 2020
preamplifier	ChengYi	EMC184045SE	980508	Sep.20, 2018	Sep.19, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.17, 2019	May.16, 2021
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun. 12, 2019	Jun. 11, 2020
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.20, 2018	Sep.19, 2020
Attenuator	Weinachel Corp	58-30-33	ML030	Jul. 12, 2018	Jul. 11, 2019
Attenuator	Weinachel Corp	58-30-33	ML030	Jul. 10, 2019	Jul. 09, 2020
RF Communication Test Set	HP	8920B	--	Nov. 01, 2018	Oct. 31, 2019
Vector Analyzer	Agilent	E4440A	--	Feb. 27, 2019	Feb. 26, 2020



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4. SUPPORT EQUIPMENT LIST

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
--	--	--	--	--	--

5. SYSTEM DESCRIPTION

EUT test procedure:

1. Connect EUT and peripheral devices.
2. Power on the EUT, the EUT begins to work.
3. Make sure the EUT normal working.

EMC TEST MODES

No.	TEST MODES
1	Scanning mode
2	Scanning stopped/Receiving at low channel of 136 MHz -174 MHz
3	Scanning stopped/Receiving at middle channel of 136 MHz -174 MHz
4	Scanning stopped/Receiving at high channel of 136 MHz -174 MHz
5	Scanning stopped/Receiving at low channel of 400 MHz -480 MHz
6	Scanning stopped/Receiving at middle channel of 400 MHz -480 MHz
7	Scanning stopped/Receiving at high channel of 400 MHz -480 MHz

Note: Only the result of the worst case was recorded in the report.



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6. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.107	Conduction Emission	Compliant
§15.109	Radiated Emission	Compliant
§15.111	Antenna Conducted Power for receivers	Compliant
§15.121(b)	Scanning receivers and frequency converters used with scanning receivers	Compliant



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7. FCC RADIATED EMISSION TEST

7.1. TEST EQUIPMENT OF RADIATED EMISSION

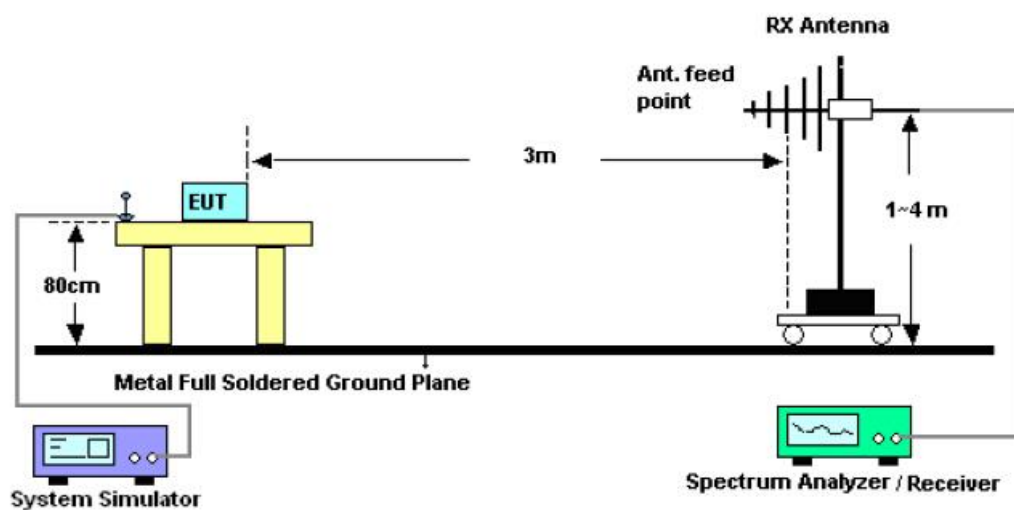
7.2. LIMITS OF RADIATED EMISSION TEST

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m/ Q.P.)
30~88	3	41.0
88~216	3	45.0
216~960	3	48.0
960~2000	3	53.5

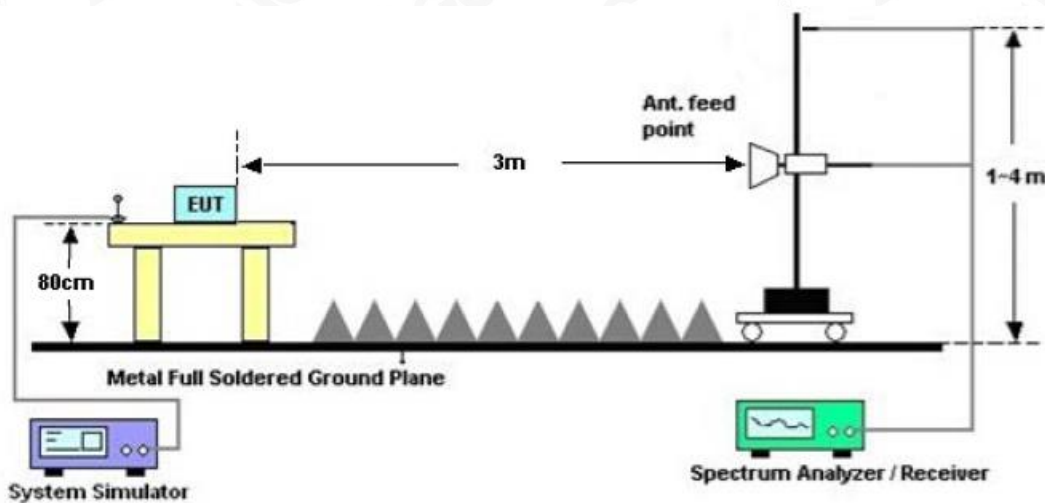
****Note:** The lower limit shall apply at the transition frequency. Because the EUT RX frequency range up to 480 MHz, so the upper the frequency range up to 2 GHz.

7.3 BLOCK DIAGRAM OF RADIATED EMISSION TEST

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



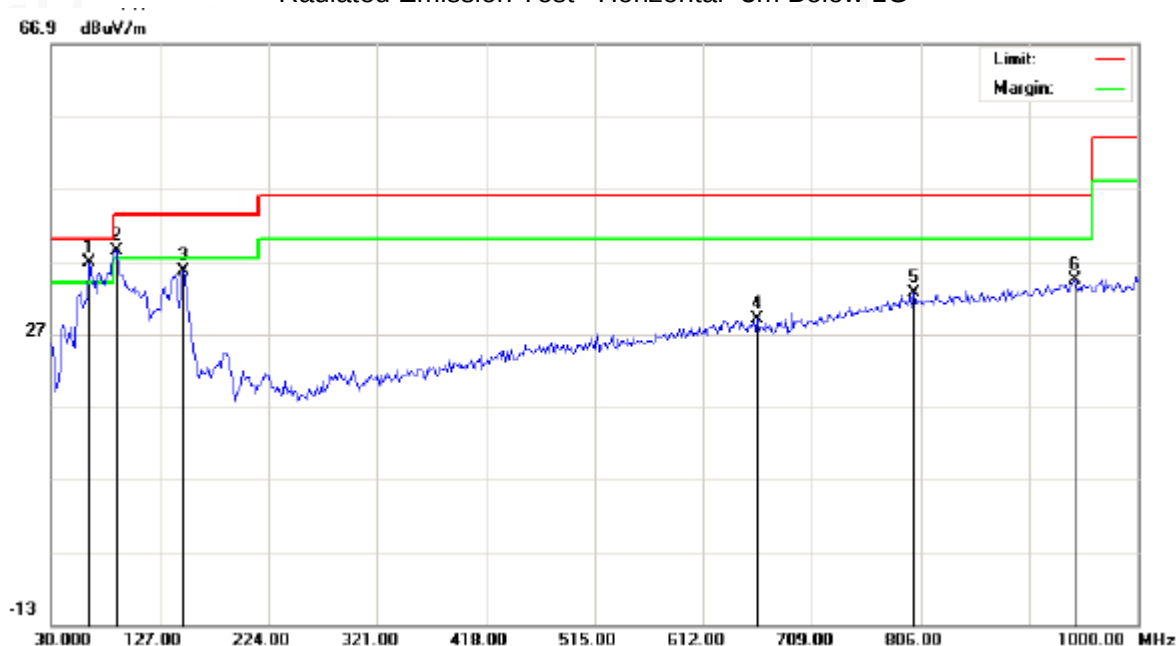
7.4 PROCEDURE OF RADIATED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) The EUT received power by AC 120V/60Hz.
- 5) The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- 6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- 7) The test mode(s) were scanned during the test:
- 8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented. For emissions below 1GHz, use 120KHz RBW and VBW $\geq$ 3RBW for QP reading.
- 9) For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 10) When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 11) If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 12) For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 13) In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.
- 14) The test data of the worst case condition (mode 1) was reported on the following Data page



7.5 TEST RESULT OF RADIATED EMISSION TEST

Radiated Emission Test –Horizontal -3m Below 1G



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	63.9500	18.58	18.17	36.75	40.00	-3.25	peak			
2	!	88.2000	23.49	14.97	38.46	43.50	-5.04	peak			
3		148.0167	16.30	19.21	35.51	43.50	-7.99	peak			
4		660.5000	1.36	27.68	29.04	46.00	-16.96	peak			
5		799.5333	2.23	30.40	32.63	46.00	-13.37	peak			
6		943.4167	2.34	32.07	34.41	46.00	-11.59	peak			

RESULT: PASS



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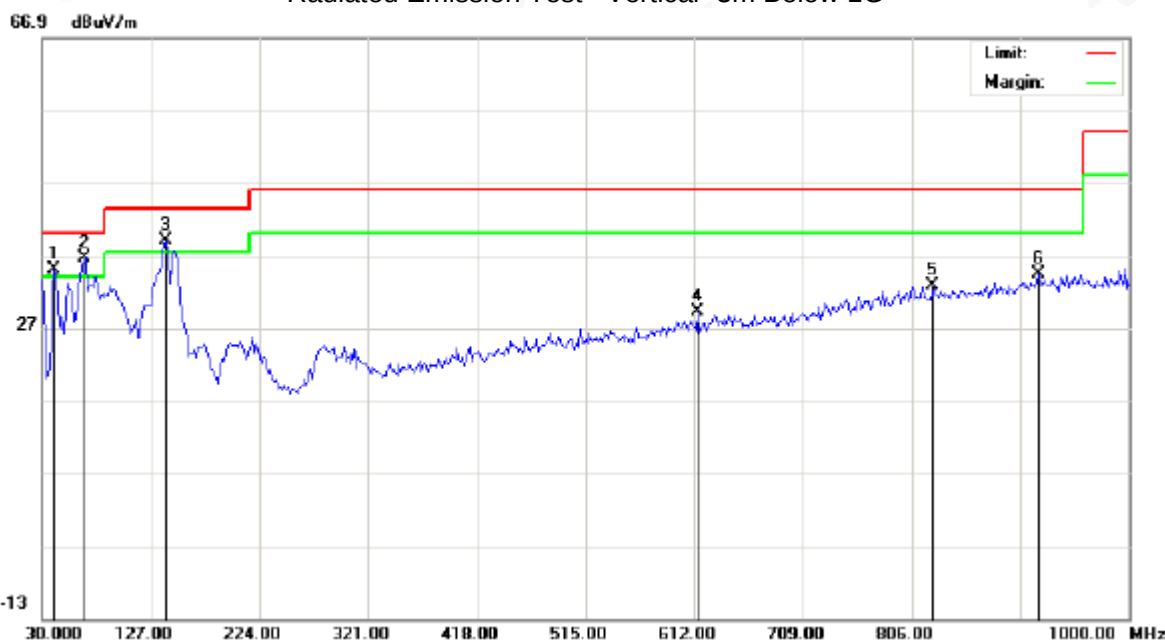
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Radiated Emission Test –Vertical -3m Below 1G



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	!	41.3166	14.90	20.04	34.94	40.00	-5.06	peak			
2	*	68.7999	19.22	17.32	36.54	40.00	-3.46	peak			
3	!	139.9333	19.86	19.23	39.09	43.50	-4.41	peak			
4		615.2332	1.98	27.13	29.11	46.00	-16.89	peak			
5		825.3999	2.10	30.74	32.84	46.00	-13.16	peak			
6		919.1666	2.46	31.86	34.32	46.00	-11.68	peak			

RESULT: PASS

- Note:** 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.
2. The "Factor" value can be calculated automatically by software of measurement system.
3. Emissions range from 1GHz to 2GHz have 20dB margin. No recording in the test report.
4. Only the data of the worst case would be record in this test report.



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8. CONDUCTED EMISSION TEST

8.1 PROVISIONS APPLICABLE

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the, the radio frequency voltage that is conducted back onto the AC power line on any frequencies within the band 150 KHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50uH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

Frequency of Emission (MHz)	Conducted Limit(dBuV)	
	Quasi-Peak	Average
0.15 – 0.5	66 to 56 *	56 to 46 *
0.5 – 5	56	46
5 – 30	60	50

* Decreases with the logarithm of the frequency.

8.2 MEASUREMENT PROCEDURE

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per ANSI C63.4.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- (4) The EUT received AC 120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- (5) All support equipments received AC power from a second LISN, if any.
- (6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (7) Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.



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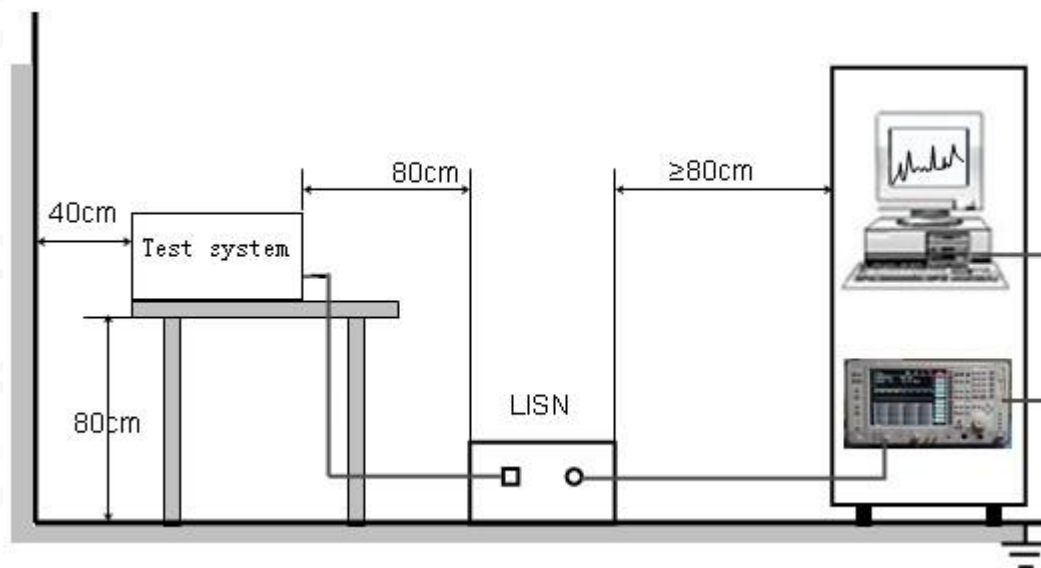
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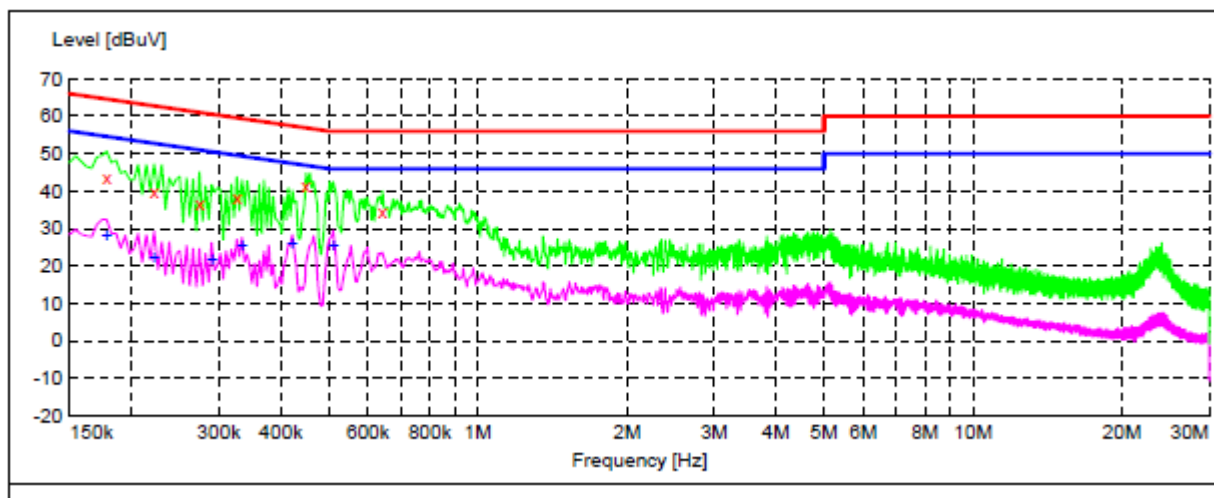
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8.3 TEST SETUP BLOCK DIAGRAM



8.4 TEST RESULT

CONDUCTED EMISSION TEST – LINE L



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.178000	43.40	10.0	65	21.2	QP	L1	FLO
0.222000	39.80	10.1	63	22.9	QP	L1	FLO
0.274000	36.50	10.1	61	24.5	QP	L1	FLO
0.326000	38.50	10.1	60	21.1	QP	L1	FLO
0.450000	41.30	10.1	57	15.6	QP	L1	FLO
0.642000	34.40	10.1	56	21.6	QP	L1	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.178000	28.10	10.0	55	26.5	AV	L1	FLO
0.222000	22.00	10.1	53	30.7	AV	L1	FLO
0.290000	21.70	10.1	51	28.8	AV	L1	FLO
0.334000	25.40	10.1	49	24.0	AV	L1	FLO
0.422000	25.90	10.1	47	21.5	AV	L1	FLO
0.510000	25.20	10.1	46	20.8	AV	L1	FLO

RESULT: PASS



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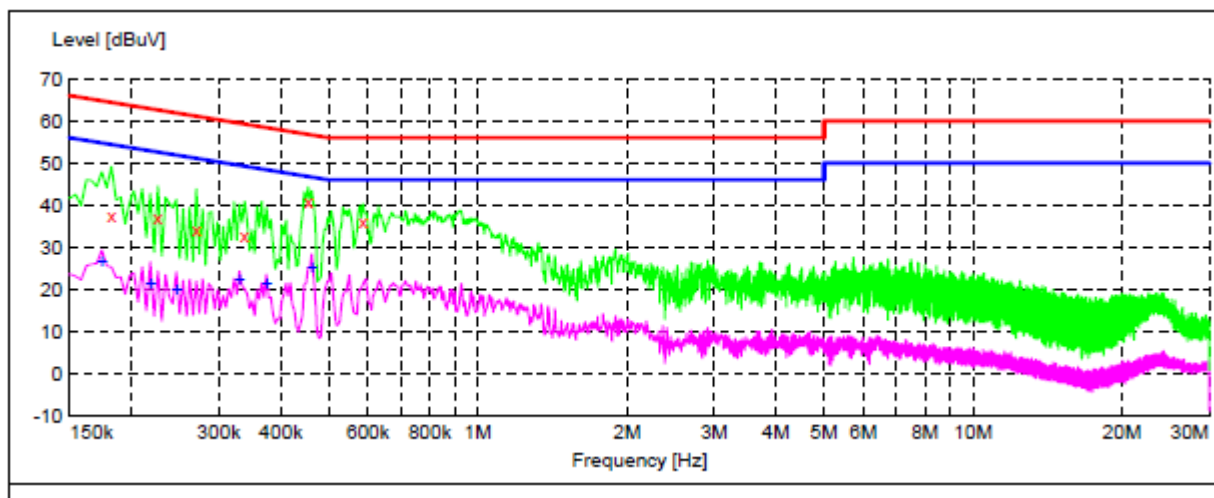
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CONDUCTED EMISSION TEST – LINE N



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.182000	37.70	10.0	64	26.7	QP	N	FLO
0.226000	36.90	10.1	63	25.7	QP	N	FLO
0.270000	34.00	10.1	61	27.1	QP	N	FLO
0.338000	32.70	10.1	59	26.6	QP	N	FLO
0.454000	40.70	10.1	57	16.1	QP	N	FLO
0.586000	35.90	10.1	56	20.1	QP	N	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.174000	26.40	10.0	55	28.4	AV	N	FLO
0.218000	21.20	10.1	53	31.7	AV	N	FLO
0.246000	19.80	10.1	52	32.1	AV	N	FLO
0.330000	22.50	10.1	50	27.0	AV	N	FLO
0.374000	21.40	10.1	48	27.0	AV	N	FLO
0.462000	25.30	10.1	47	21.4	AV	N	FLO

RESULT: PASS



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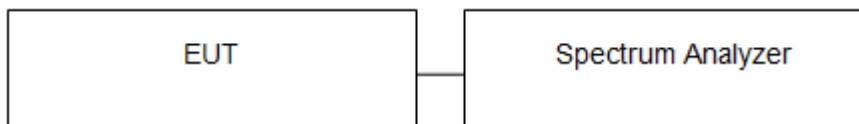
9. ANTENNA CONDUCTED POWER FOR RECEIVERS

LIMIT

The antenna conducted power of the receiver as defined in §15.111 shall not exceed the values given in the following tables

Frequency Range	9 KHz to 2GHz
Limit	2.0 nW (-57 dBm)

TEST CONFIGURATION



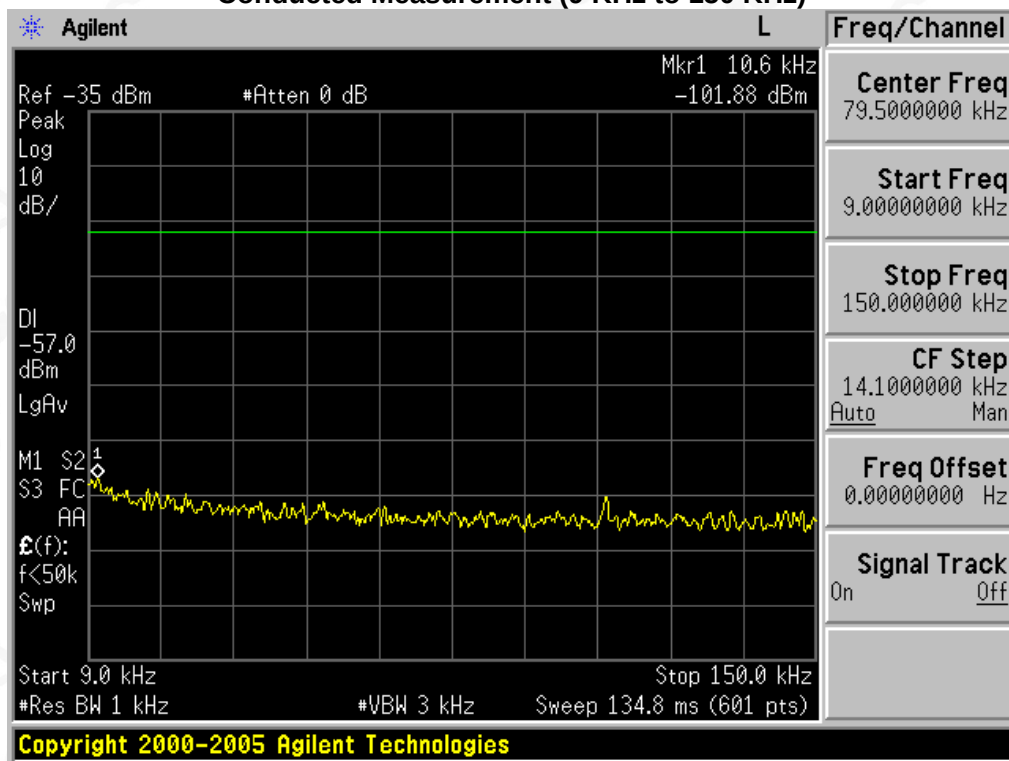
TEST PROCEDURE

1. The receiver antenna terminal connected to a spectrum analyzer.
2. The test data of the worst case condition (mode 1) was reported on the following Data page.

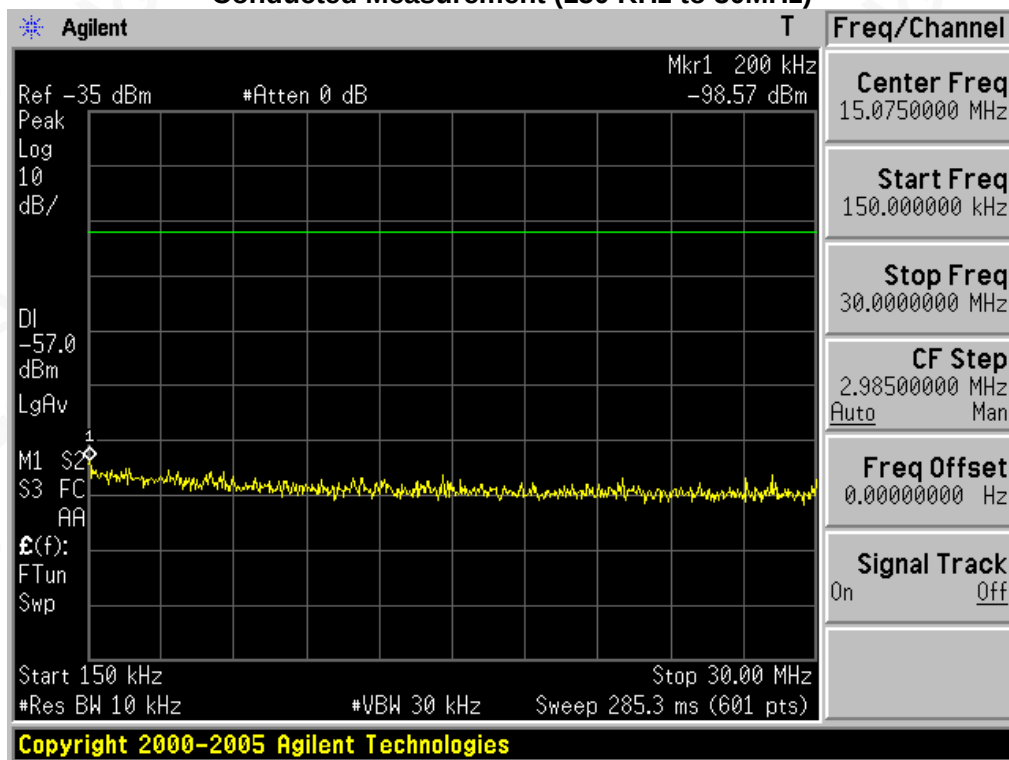


TEST RESULTS

Conducted Measurement (9 KHz to 150 KHz)



Conducted Measurement (150 KHz to 30MHz)



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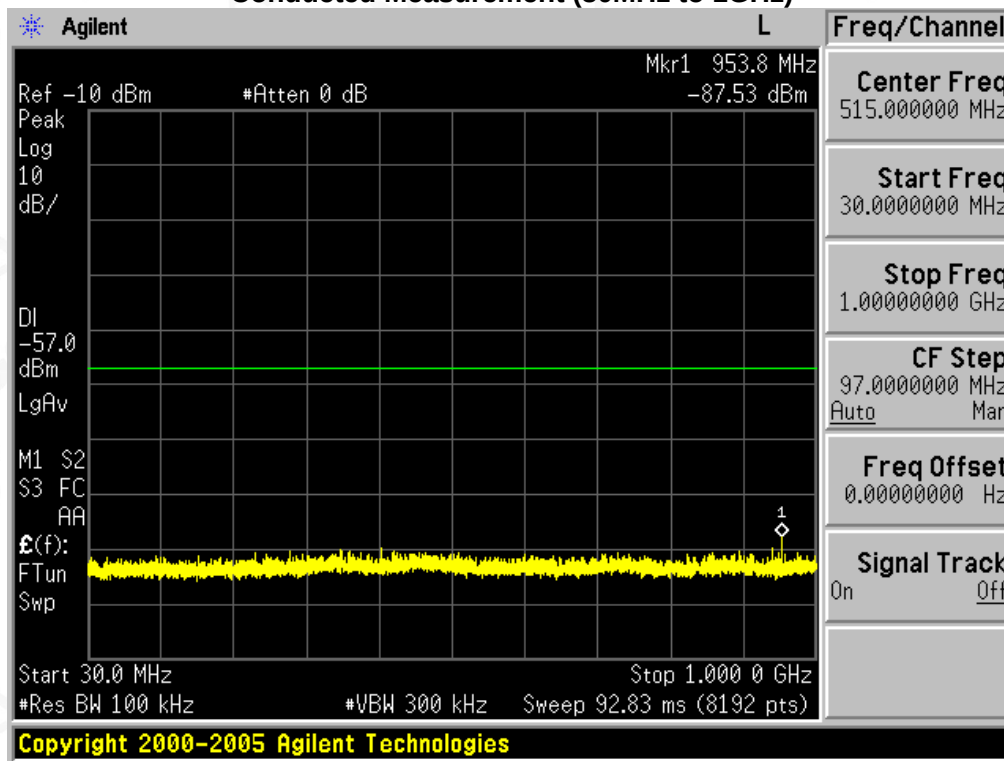
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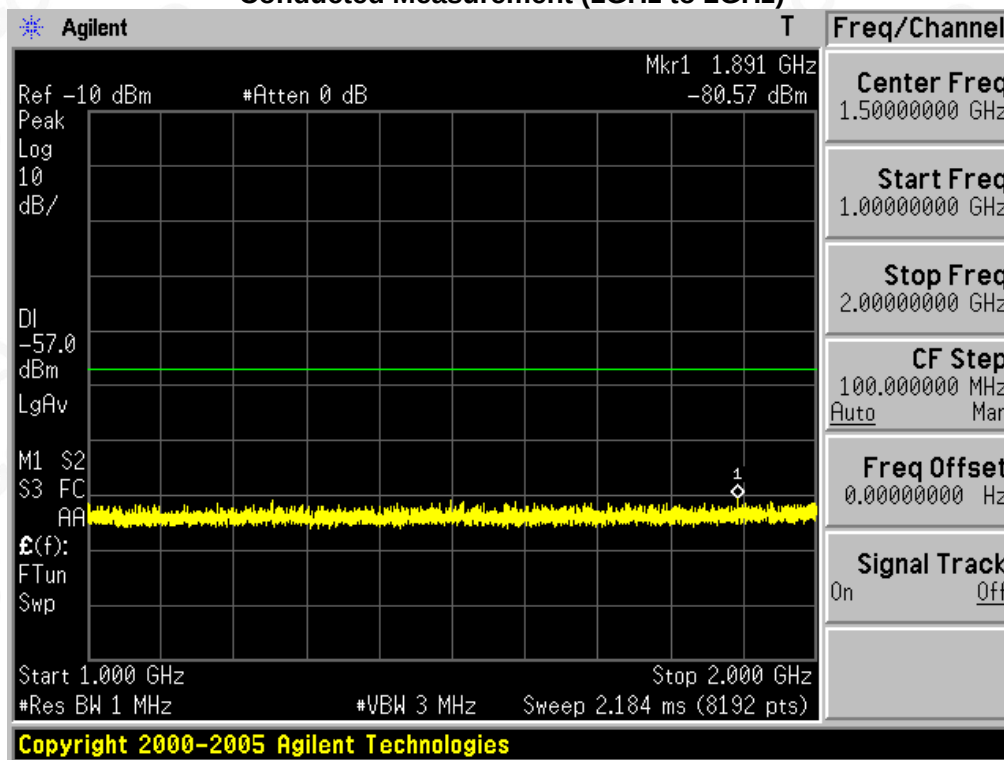
E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

Conducted Measurement (30MHz to 1GHz)



Conducted Measurement (1GHz to 2GHz)



PASS



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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

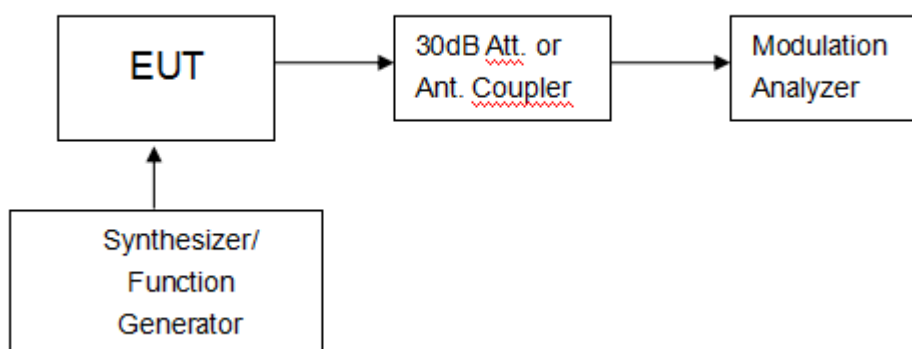
10. SANNING RECEIVERS AND FREQUENCY CONVERTERS USED WITH SANNING

RECEIVERS.

LIMIT

Except as provided in paragraph (c) of this section, scanning receivers shall reject any signals from the Cellular Radiotelephone Service frequency bands that are 38 dB or lower based upon a 12 dB SINAD measurement, which is considered the threshold where a signal can be clearly discerned from any interference that may be present.

TEST CONFIGURATION



TEST PROCEDURE

Please review the FCC Part 15.121 b section requirements to meet the testing process

TEST RESULTS

VHF:

Frequency Range(MHz)	Channel	Measurement Result (dB)	Limit(dB)	Result
136-174	Bottom	46	> 38	Pass
136-174	Middle	49	> 38	Pass
136-174	Top	47	> 38	Pass



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UHF:

Frequency Range(MHz)	Channel	Measurement Result (dB)	Limit(dB)	Result
400-480	Bottom	48	> 38	Pass
400-480	Middle	50	> 38	Pass
400-480	Top	47	> 38	Pass

Note:1.This device meets the requirements of FCC PART 15.121.b

2.The test report only shows the worst test results



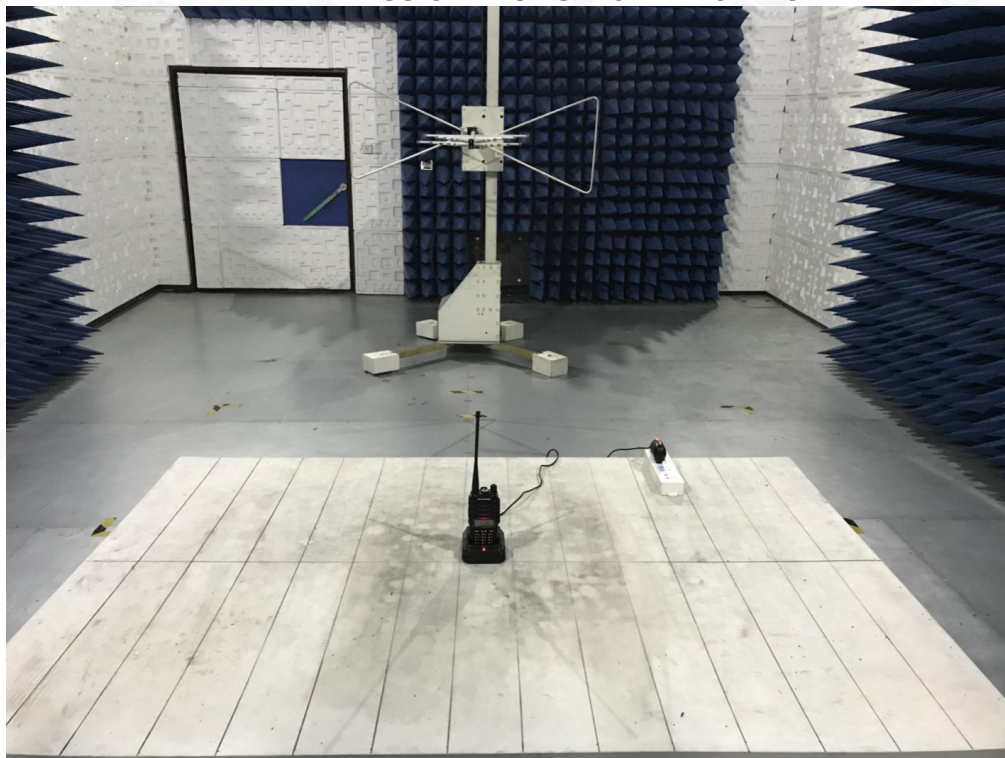
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,
Xixiang, Bao'an District, Shenzhen, Guangdong, China

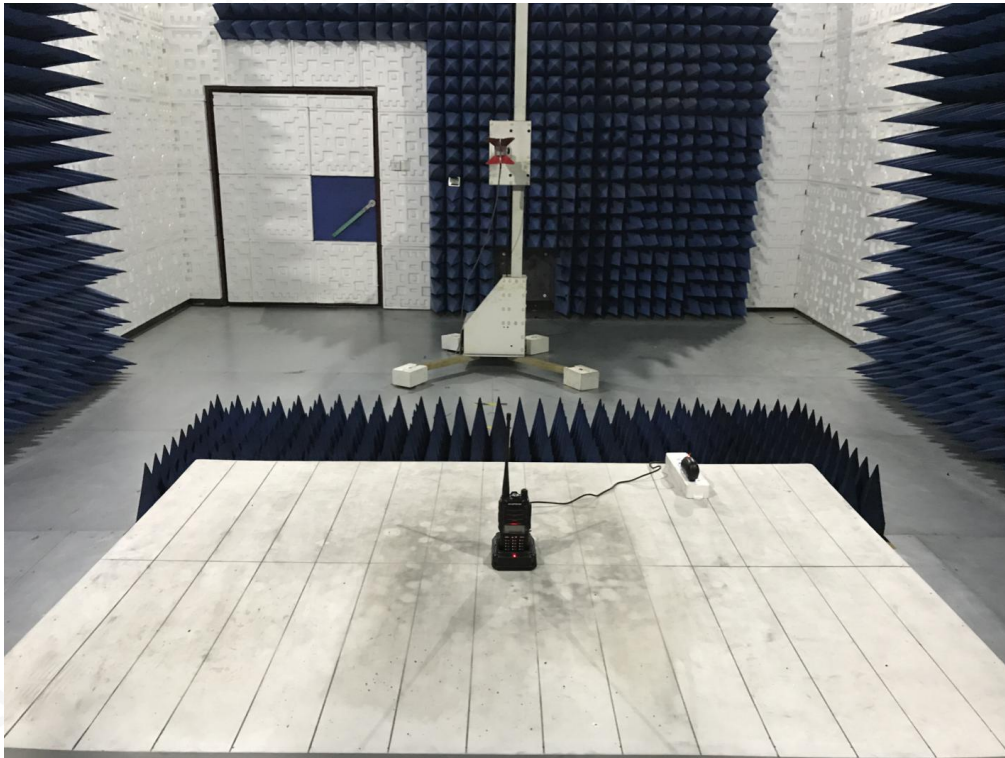
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP**CONDUCTED EMISSION TEST SETUP****RADIATED EMISSION TEST SETUP-BELOW 1GHZ**

RADIATED EMISSION TEST SETUP-ABOVE 1GHZ



APPENDIX 2 PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



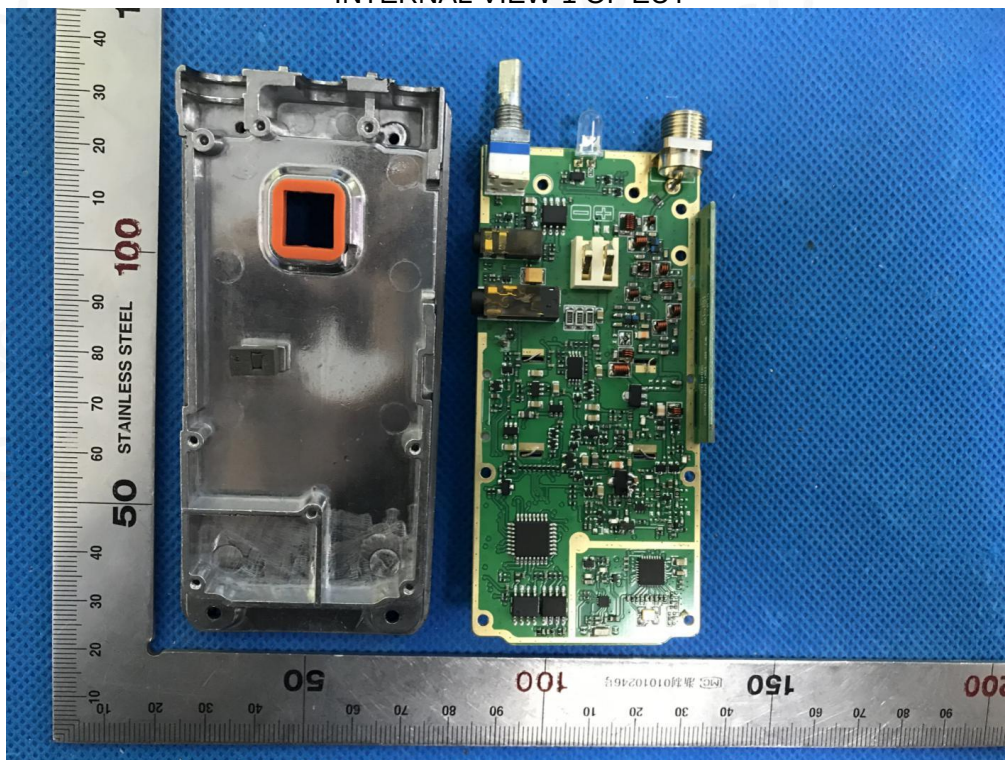
OPEN VIEW-1 OF EUT



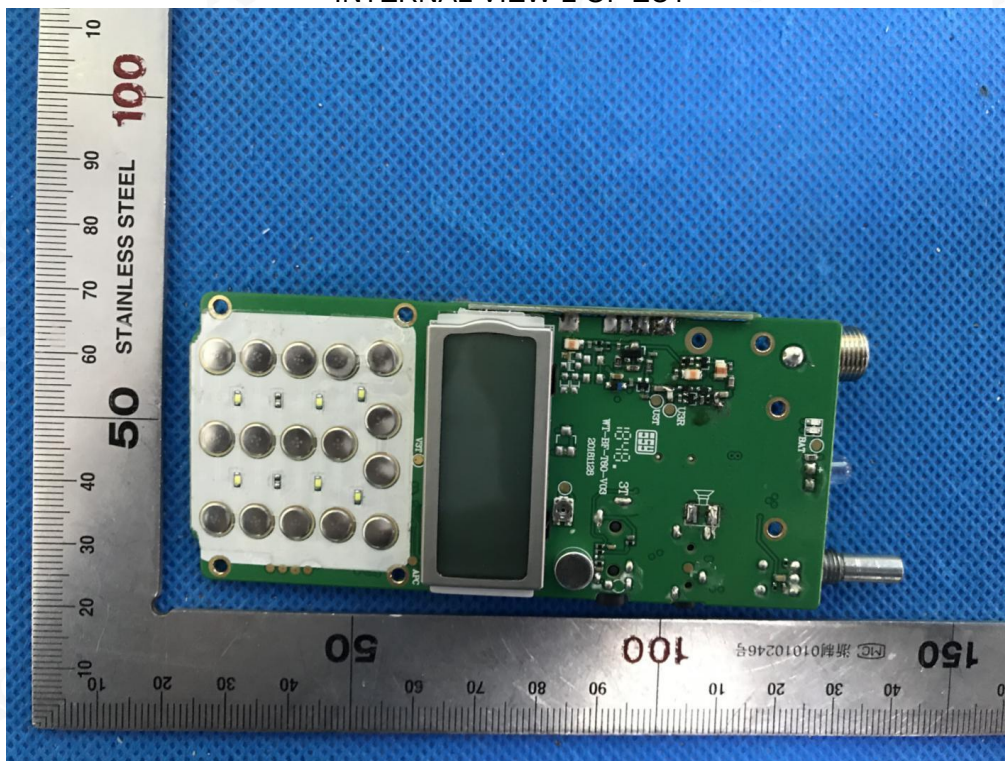
OPEN VIEW-2 OF EUT



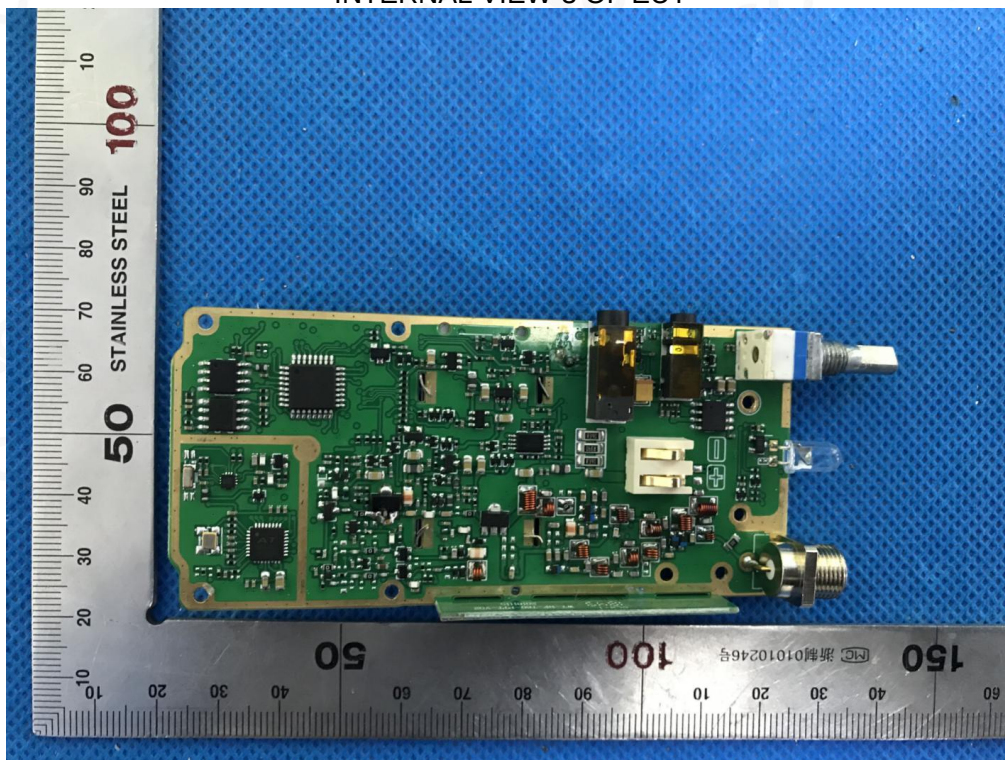
INTERNAL VIEW-1 OF EUT



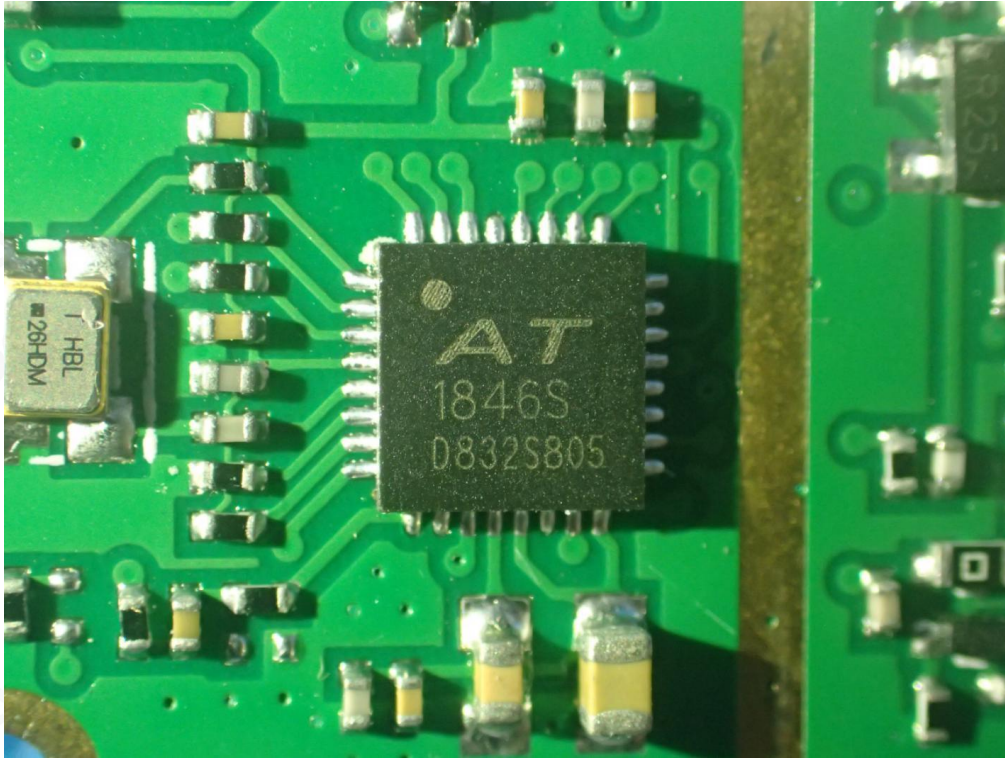
INTERNAL VIEW-2 OF EUT



INTERNAL VIEW-3 OF EUT



INTERNAL VIEW-4 OF EUT



----END OF REPORT----