

FCC Test Report

Report No.: AGC02931191002FE08A

FCC ID	÷	POD-ADB5
PRODUCT DESIGNATION	:	Analog Transceiver
BRAND NAME	:	TYT, Explorer
MODEL NAME	:	TH-UV88, TH-UV98, TH-UV87, TH-UV66, QRZ-1
APPLICANT	:	TYT Electronics Co., Ltd.
DATE OF ISSUE	:6	Nov. 19, 2021
STANDARD(S)	: @	FCC Part 15 Rules
REPORT VERSION	:	V 1.0

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



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "bedicated restron/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written aphorization of AGS". The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



REPORT REVISE RECORD

Report Version	Revise Time	Issued Date Valid Version		Notes	
V1.0		Nov. 19, 2021	Valid	Class II Permissive Change	

Note: The original test report Ref. No. (AGC02931191002FE08) (dated 2019-12-30), was modified on 2021-11-19 to include the following changes and additions for:

-Updated series model.

-Increase the brand name Explorer.

-Updated the hardware version.

For the above described change(s),updated FCC Radiated emission test and FCC CONDUCTED EMISSION TEST.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated fresh g/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter aphorization of AGE the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com
 Web: http://cn.agc-cert.com/



Report No.: AGC02931191002FE08A Page 3 of 30

TABLE OF CONTENTS

1. VERIFICATION OF COMPLIANCE	
2. PRODUCT INFORMATION	5
3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION	
4. SUPPORT EQUIPMENT LIST	
5. SYSTEM DESCRIPTION	7
6. MEASUREMENT UNCERTAINTY	
7. SUMMARY OF TEST RESULTS	
8. FCC RADIATED EMISSION TEST	9
8.1 PROVISIONS APPLICABLE	
8.2 TEST SETUP BLOCK DIAGRAM	
8.3 TEST PROCEDURE	11
8.4 TEST RESULT	
9. FCC CONDUCTED EMISSION TEST	
9.1 PROVISIONS APPLICABLE	
9.2 TEST SETUP BLOCK DIAGRAM	
9.4 TEST RESULT	
APPENDIX I PHOTOGRAPHS OF TEST SETUP	
APPENDIX II: PHOTOGRAPHS OF TEST EUT	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuerce of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



Sf

the test report.

1. VERIFICATION OF COMPLIANCE

Applicant:	TYT Electronics Co., Ltd.
Address:	Block 39-1, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China.
Manufacturer:	TYT Electronics Co., Ltd.
Address:	Block 39-1, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China.
Factory:	TYT Electronics Co., Ltd.
Address:	Block 39-1, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China.
Product Designation:	Analog Transceiver
Brand Name:	TYT, Explorer
Test Model:	TH-UV88
Series Model(s)	TH-UV98, TH-UV87, TH-UV66, QRZ-1
	a) The same PCB and specifications, only the model number, trademark and appearance line design are different, the corresponding relationship are as follow:
Difference Description	b) Explorer is corresponding QRZ-1;
	TYT is corresponding TH-UV88,TH-UV98,TH-UV87,TH-UV66
Measurement Procedure:	ANSI C63.4: 2014
Deviation:	No any deviation from the test method.
Date of Test:	Nov. 08, 2021~Nov. 19, 2021
Condition of Test Sample:	Normal
Test Result:	Pass
Report Template;	AGCRT-US-PTT/EMC

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.

Bibo zhang Prepared By **Bibo Zhang** Nov. 19, 2021 (Project Engineer) Calvin Lin **Reviewed By** Calvin Liu Nov. 19, 2021 (Reviewer) Max Zhang Approved By Max Zhang Nov. 19, 2021 Authorized Officer mpliances Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the /Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter aphorization of AGE The test results

Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com. Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/

presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15da/Safte



2. PRODUCT INFORMATION

The EUT is a Analog Transceiver 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	136-174MHz, 400-480 MHz (Scanning Receiver)
Emission Type	F3E
Antenna Designation	Detachable Antenna
Antenna Gain	1.5dBi
Hardware Version	VER 2.1B
Software Version	V1.00
Power Supply	DC 7.4V,1400mAh by battery, charging for DC8.4V

I/O Port Information (XApplicable

Not Applicable)

I/O Port of EUT						
I/O Port Type	Tested with					
Antenna Port	1	C - P	1			
Earphone Port	1		1			

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated for the formation of the stamp. Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



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	May 11, 2021	May 10, 2022
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
TEST SOFTWARE	FARA	EZ-EMC (Ver.AGC-C ON03A1)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 11, 2021	May 10, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
ANTENNA	SCHWARZBECK	VULB9168	D69250	Apr. 28, 2021	Apr. 27, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
POSITIONING CONTROLLER	MF	MF-7802	MF780208285	<u> </u>	G - 2
HORN ANTENNA	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
RF Communication Test Set	HP	8920B	US35010161	Sep. 01, 2021	Aug. 31, 2022
EXA Signal Analyzer	Agilent	N9020A	MY53300860	Jun. 09, 2021	Jun. 08, 2022
Attenuator	Schaffner	58-30-33	ML030	Oct. 24, 2021	Oct. 23, 2022
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated for the formation of the stamp. Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



4. SUPPORT EQUIPMENT LIST

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Charger		AD-UV88		GU	1.2m Unshielded
Battery		TH-UV88	<u> </u>	P	· · . 6
Back clip	© -	N/A	G	- 6-	© _

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 MODE:

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

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

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stand of the test results of the test results been altered in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day affective is not permitted without the written authorization of AGC of the test results be addressed to AGC by agc@agc~cert.com.



6. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, Uc = ±3.1 dB

- Uncertainty of Radiated Emission below 1GHz, Uc = ±4.0 dB

- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 Db

7. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.107	Conduction Emission	Compliant
§15.109	Radiated Emission	Compliant

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated frame/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC in the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day affect the issue of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

Web: http://cn.agc-cert.com/



8. FCC RADIATED EMISSION TEST

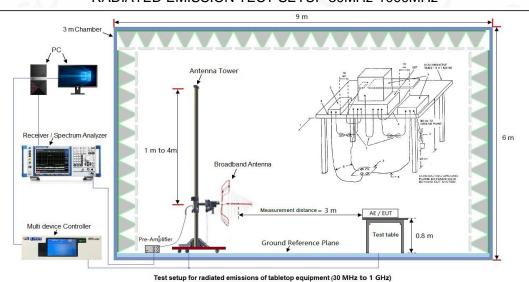
8.1 PROVISIONS APPLICABLE

FCC CFR Title 47 Part 15 Subpart B Section 15.109:

Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

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.

8.2 TEST SETUP BLOCK DIAGRAM



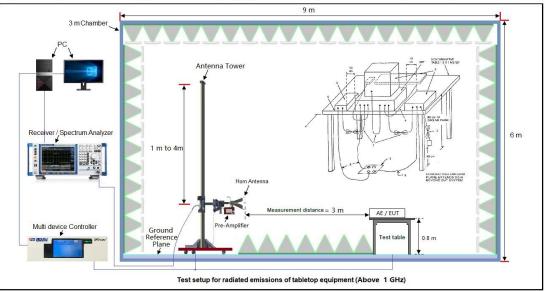
RADIATED EMISSION TEST SETUP 30MHz-1000MHz

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated resting/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



Report No.: AGC02931191002FE08A Page 10 of 30



RADIATED EMISSION TEST SETUP ABOVE 1000MHz

EMI TEST RECEIVER SETUP:

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurment
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz		PK 💿
Above 1 GHz	1MHz	10 Hz	/	Ave.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated for the formation of the stamp. Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



8.3 TEST 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 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.
- 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>=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.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated resting/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



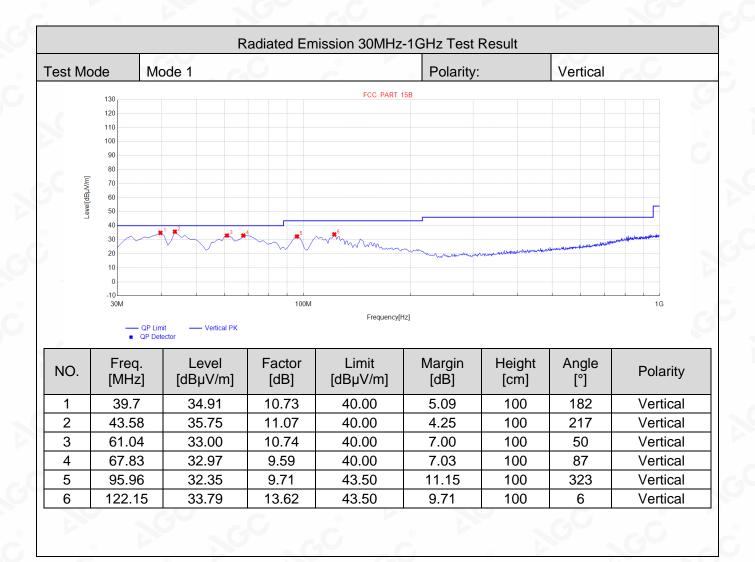
8.4 TEST RESULT

Test Mod	le M	ode 1			Polarit	y:	Horizont	al
	130	,		FCC PART 1	15B			
	120 110							
	90							
Level[dBµV/m]	80 70 60							
Leve	50 40							
	30 20	*	**	M M M		- May Marine Marine Marine and a second and a	anghamanahamagilitan adamaan	and an all and a second se
	10 0							
	-10 30M		100M					1G
	QP Lir QP De			Frequency[H	iz]			
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [d]	Height [cm]	Angle [°]	Polarity
1	38.73	28.49	10.73	40.00	11.51	200	193	Horizontal
2	43.58	26.18	11.07	40.00	13.82	200	206	Horizontal
3	67.83	22.99	9.59	40.00	17.01	200	0	Horizontal
4	84.32	23.77	7.19	40.00	16.23	200	6	Horizontal
	122.15	29.98	13.62	43.50	13.52	200	326	Horizontal
5 6	955.38	20.00	28.43	46.00	11.73		2	Horizontal

RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.





RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the second device of the test results stamp. Is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written aphorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



est Mode M	ode 1		Polarity:	Hor	izontal	<u>C</u>
130		FCC	PART 15B			
120						
110						
100						
90						
80						
与 日 60						
[비사기 70 [편] 60 50						
40	1	2 	dia alian ang ang ang ang ang ang ang ang ang a	**************************************		
30	ner for an and a start of the					
20						
10						
0						
-10 1G		2G	3G	4G	5G	6G

1.1									
2	NO.	Freq. [MHz]	Level [dBµV/m]	Factor dB	Limit [dBµV/m]	[dB]	Height [m]	Angle [°]	Polarity
	1	1187.5188	38.05	-16.82	74.00	35.95	100	180	Horizontal
	2	1965.5966	40.89	-12.19	74.00	33.11	100	140	Horizontal
	3	2546.1546	43.22	-9.68	74.00	30.78	100	40	Horizontal
	4	3549.755	43.49	-7.49	74.00	30.51	100	130	Horizontal
	5	4244.8245	43.76	-5.86	74.00	30.24	100	130	Horizontal
	6	4802.8803	44.52	-4.91	74.00	29.48	100	300	Horizontal
		(R)							

RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Perturg/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



est Mode Mo	de 1		Pola	arity:	Vertical	
0			<i>c.</i> C	© /		
130		FC	C PART 15B			
120						
110						
100						
90						
80						
[w] 70 rgp] 60						
면 60 						
		2	* ³		5 hondrid a life in the state	
40 30	arthal With Million and March Constraints and the state	ar a thread in the state of a state back of the product of the state of the	reision and an and a subscription of the	n The first and a second s	and the second	Manufacture of the second
20						
10						
0						
-10						
1G		2G	3G requency[Hz]	4G	5G	6G

	NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
6	1	1291.0291	38.03	-16.93	74.00	35.97	100	50	Vertical
	2	1947.0947	41.63	-12.38	74.00	32.37	100	300	Vertical
	3	2862.6863	42.28	-9.44	74.00	31.72	100	220	Vertical
	4	3432.7433	42.60	-7.83	74.00	31.40	100	90	Vertical
	5	4169.3169	43.78	-6.06	74.00	30.22	100	250	Vertical
	6	4900.39	45.56	-4.82	74.00	28.44	100	220	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Measurement.

2. The "Factor" value can be calculated automatically by software of measurement system.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the step of the stamp of the stamp. Stamp is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



9. FCC CONDUCTED EMISSION TEST

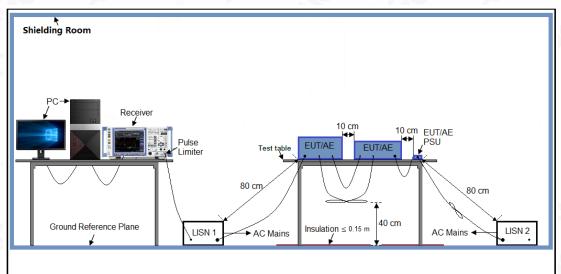
9.1 PROVISIONS APPLICABLE

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.

9.2 TEST SETUP BLOCK DIAGRAM



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated frame/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC in the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15da/Cafter the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



9.3 TEST PROCEDURE

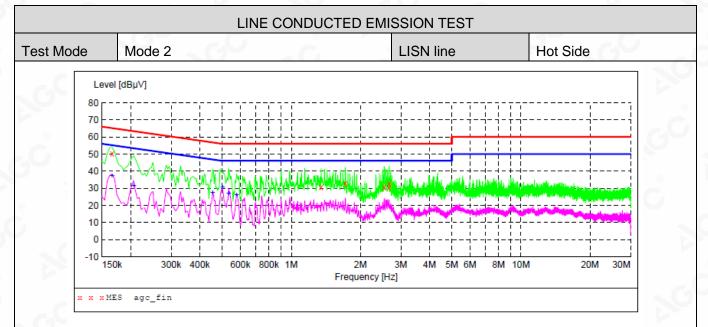
- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground 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.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test data of the worst case condition (mode 2) was reported on the following Data page.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pertor/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter adhorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



Report No.: AGC02931191002FE08A Page 18 of 30

9.4 TEST RESULT



MEASUREMENT RESULT: "agc fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.166000 1.350000 1.722000 2.538000 2.662000 2.670000	50.40 30.30 32.70 30.50 30.30 32.80	6.8 5.9 6.3 6.5 6.5 6.5	65 56 56 56 56	14.8 25.7 23.3 25.5 25.7 23.2	QP QP	L1 L1 L1 L1 L1 L1

MEASUREMENT RESULT: "agc fin2"

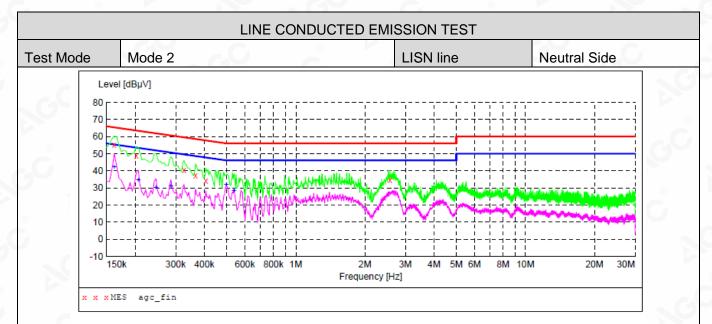
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.166000	37.30	6.8	55	17.9	AV	L1
0.206000	31.30	6.5	53	22.1	AV	L1
0.454000	27.20	5.5	47	19.6	AV	L1
0.502000	30.40	5.4	46	15.6	AV	L1
0.534000	27.10	5.4	46	18.9	AV	L1
0.578000	25.90	5.4	46	20.1	AV	L1

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day Safter the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



Report No.: AGC02931191002FE08A Page 19 of 30



MEASUREMENT RESULT: "agc_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.162000	55.30	6.8	65	10.1	QP	N
0.202000	48.90	6.5	64	14.6	QP	N
0.326000	40.50	5.9	60	19.1	QP	N
0.366000	37.40	5.8	59	21.2	QP	N
0.406000	34.00	5.7	58	23.7	QP	Ν
2.570000	34.40	6.5	56	21.6	QP	N

MEASUREMENT RESULT: "agc_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.162000	42.30	6.8	55	13.1	AV	N
0.206000	34.80	6.5	53	18.6	AV	N
0.246000	30.10	6.3	52	21.8	AV	N
0.286000	30.80	6.1	51	19.8	AV	N
0.498000	31.70	5.4	46	14.3	AV	N
0.538000	28.50	5.4	46	17.5	AV	Ν

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the abeliated restriction of the stamp. Subscription of the report is not permitted without the written authorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

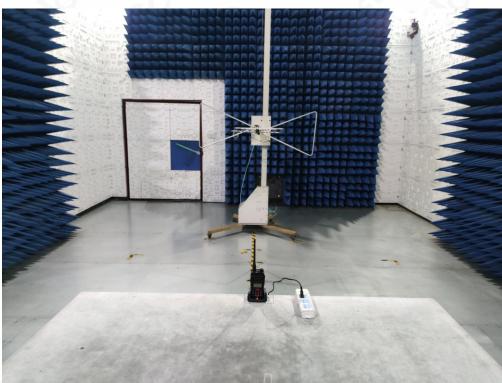


Report No.: AGC02931191002FE08A Page 20 of 30

APPENDIX I PHOTOGRAPHS OF TEST SETUP CONDUCTED EMISSION TEST SETUP



RADIATED EMISSION TEST SETUP-BELOW 1GHZ



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the submitted restriction of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

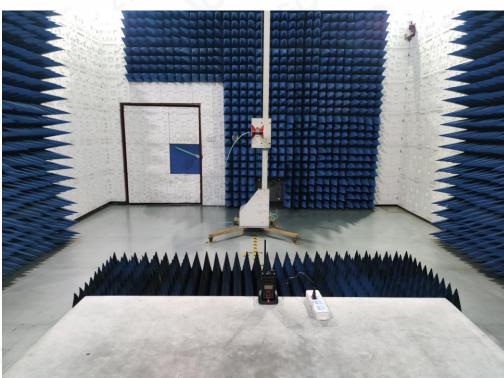
 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



Report No.: AGC02931191002FE08A Page 21 of 30



RADIATED EMISSION TEST SETUP-ABOVE 1GHZ

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

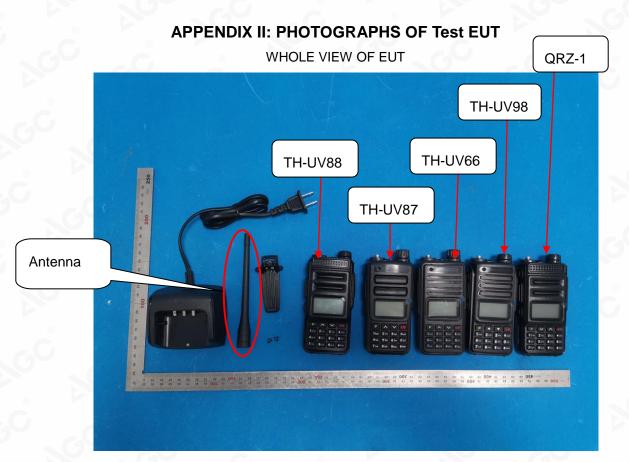
 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com
 Web: http://cn.agc-cert.com/



Report No.: AGC02931191002FE08A Page 22 of 30



TOP VIEW OF EUT



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter extinorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuerce of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



Report No.: AGC02931191002FE08A Page 23 of 30

BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stead of the test results of the test results are apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issue of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



Report No.: AGC02931191002FE08A Page 24 of 30

BACK VIEW OF EUT



LEFT VIEW OF EUT



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuerce of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



Report No.: AGC02931191002FE08A Page 25 of 30

RIGHT VIEW OF EUT



OPEN VIEW-1 OF EUT



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

Web: http://cn.agc-cert.com/

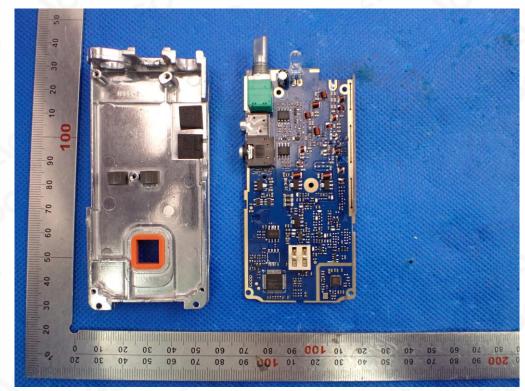


Report No.: AGC02931191002FE08A Page 26 of 30



OPEN VIEW-2 OF EUT

OPEN VIEW-3 OF EUT



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Festive/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, or having not been stamped by the "Dedicated Festive/Inspection presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.