

Page 1 of 44

# FCC Part 97 Test Report

# Report No.: AGC02294180607FE09

PRODUCT DESIGNATION	TWO-WAY RADIOS	
BRAND NAME	BAOFENG, pofung	
MODEL NAME	BF-888S, GT-1, BF-666S, BF-777S, BF-888SA, BF-888S BF-888S Max	S Plus,
CLIENT	PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY	J The to
DATE OF ISSUE	Jun. 27, 2018	
STANDARD(S)	FCC Part 97 Rules	
REPORT VERSION	V 1.0	

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

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Report No.: AGC02294180607FE09 Page 2 of 44

### **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jun. 27, 2018	Valid	Initial Release

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Report No.: AGC02294180607FE09 Page 3 of 44

#### TABLE OF CONTENTS

1. VERIFICATION OF COMPLIANCE	5
2. GENERAL INFORMATION	
2.1 PRODUCT DESCRIPTION	6
2.2 RELATED SUBMITTAL(S) / GRANT (S)	7
2.3 TEST METHODOLOGY	
2.4 TEST FACILITY	7
2.5 SPECIAL ACCESSORIES	
2.6 EQUIPMENT MODIFICATIONS	
3. SYSTEM TEST CONFIGURATION	
3.1 EUT CONFIGURATION	
3.2 EUT EXERCISE	
3.3 GENERAL TECHNICAL REQUIREMENTS	8
3.4 CONFIGURATION OF TESTED SYSTEM	
3.5 SUMMARY OF TEST RESULTS	9
4. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION	
5. DESCRIPTION OF TEST MODES	11
6. CONDUCTED LIMITS	
6.1 PROVISIONS APPLICABLE	
6.2 MEASUREMENT PROCEDURE	
6.3 TEST SETUP BLOCK DIAGRAM	
6.4 TEST RESULT	
7. FREQUENCY TOLERANCE	
7.1 PROVISIONS APPLICABLE	
7.3 TEST SETUP BLOCK DIAGRAM	
7.4 TEST RESULT	
8. EMISSION BANDWIDTH	

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#### Report No.: AGC02294180607FE09 Page 4 of 44

8.1 PROVISIONS APPLICABLE			20
8.2 MEASUREMENT PROCEDUR			
8.3 TEST SETUP BLOCK DIAGRAM			
8.4 MEASUREMENT RESULT			21
9. UNWANTED RADIATION	<u>*</u>		21
9.1 PROVISIONS APPLICABLE	0 5 Jan 1 Jan	<b>G</b> O	23
9.2 MEASUREMENT PROCEDURE	GO P		23
9.3 TEST SETUP BLOCK DIAGRAM	1 B	K Strander 0	
9.4 MEASUREMENT RESULTS:			
10. MODULATION CHARACTERISTICS	<u> </u>		27
10.1 PROVISIONS APPLICABLE	The Barrier	The Barnes	
10.2 MEASUREMENT METHOD	<u> </u>		
10.3 MEASUREMENT RESULT			
11. MAXIMUMN TRANSMITTER POWER	<u>, 1)</u> <u>, 1</u>	Same 1	31
11.1 PROVISIONS APPLICABLE	C *	<u> </u>	31
11.2 TEST PROCEDURE			31
11.3 TEST CONFIGURATION	<u> </u>	The Contraction	31
11.4 TEST RESULT	<u> </u>		32
11.5 CONDUCT SPURIOUS PLOT			33
12. RADIATED EMISSION ON RECEIVING MODE	<u></u>	0 <b>a</b> 3 <sup>2</sup>	33
12.1 PROVISIONS APPLICABLE		GO	35
	<u> </u>		35
12.3 MEASURE RESULT (MEASURED AT 3M USING FCC PAI	RT15 B LIMITS)	The second second	36
APPENDIX 1: PHOTOGRAPHS OF SETUP	<u> </u>		38
APPENDIX 2: EXTERNAL VIEW OF EUT		1	39

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#### Report No.: AGC02294180607FE09 Page 5 of 44

#### **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
Product Designation	TWO-WAY RADIOS
Brand name	BAOFENG, pofung
Test Model	BF-888S
Series Model	GT-1, BF-666S, BF-777S, BF-888SA, BF-888S Plus, BF-888S Max
Declaration of Difference	All the same except for the model name brand name and the external shape (BF-888S, BF-666S, BF-777S, BF-888SA, BF-888S Plus, BF-888S Max is BAOFENG / GT-1 is pofung)
Measurement Procedure	ANSI C63.4: 2014
Date of test	Jun. 20, 2018 to Jun. 27, 2018
Test Result	Pass Pass

# WE HEREBY CERTIFY THAT:

The above equipment was tested by Shenzhen Attestation of Global Compliance Science & Technology Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C 63.4:2014 and TIA/EIA 603. The sample tested as described in this report is in compliance with the FCC Rules Part 97.

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

Tested By

Steven Zhou

Steven Zhou(Zhou Pengyun) Jun. 27, 2018

**Reviewed By** 

Solpe sie

Bart Xie(Xie Xiaobin)

Jun. 27, 2018

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

Jun. 27, 2018

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# 2. GENERAL INFORMATION

#### 2.1 PRODUCT DESCRIPTION

The EUT is a TWO-WAY RADIOS 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 Standard St		
Hardware Version	LT-666-LN-VER6.3		
Software Version	BF-888S		
Emission Type	16K69F3E		
Emission Bandwidth	10.86 KHz(2W-12.5KHz), 16.69 KHz(2W-25KHz)		
Peak Frequency Deviation	1.94KHz		
Audio Frequency Response	10.26dB		
Maximum Transmitter Power	36.86 dBm (2W-12.5KHz),36.89 dBm (2W-25KHz)		
Output power Modification	2W (It was fixed by the manufacturer, any individual can't arbitrarily change it)		
Antenna Designation	Detachable antenna		
Antenna Gain	2.15dBi		
Power Supply	DC 3.7V 1500mAh by battery, charging with DC 4.2V		
Charger Parameter	OUTPUT:DC 5V OUTPUT:DC 4.2V, 0.5A		
Limiting Voltage	DC 3.15V ~ 4.26V		
Carter Carter	Frequency Range: TX(420MHz-450MHz) Channel Separation:12.5 KHz /25KHz		
Operation Frequency	420MHz-450MHz		
Range and Channel Separation	Bottom Channel: 420.025MHz Middle Channel: 435.025MHz Top Channel:449.975MHz		
Frequency Tolerance	1.144ppm		

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#### 2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for filing to comply with the FCC Part 97 requirements.

#### 2.3 TEST METHODOLOGY

The radiated emission testing was performed according to the procedures of ANSI C 63.4: 2014; TIA/EIA 603 and FCC CFR 47 Rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

#### 2.4 TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012		
NVLAP LAB CODE	600153-0		
Designation Number	CN5028		
FCC Test Firm Registration Number	682566		
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0		

#### 2.5 SPECIAL ACCESSORIES

Not available for this EUT intended for grant.

#### 2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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#### Report No.: AGC02294180607FE09 Page 8 of 44

#### **3. SYSTEM TEST CONFIGURATION**

#### **3.1 EUT CONFIGURATION**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### **3.2 EUT EXERCISE**

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

#### **3.3 GENERAL TECHNICAL REQUIREMENTS**

- (1). Section 15.207: Conducted Limits
- (2). Section 97.303: Frequency sharing requirements
- (3). Section 97.305: Authorized emission types
- (4). Section 97.307: Emissions standards
- (5). Section 97.309: RTTY and data emission codes
- (6). Section 97.313: Transmitter power standards
- (7).Section 2.1047: Modulation characteristic

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#### Report No.: AGC02294180607FE09 Page 9 of 44

#### **3.4 CONFIGURATION OF TESTED SYSTEM**

#### Fig. 2-1 Configuration of Tested System



#### Table 2-1 Equipment Used in Tested System

Item	Equipment	Model No.	Note
Contraction of Contract	TWO-WAY RADIOS	BF-888S	EUT

#### 3.5 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207	Conducted Emission	Compliant
§2.1047	Modulation characteristics Complia	
§97.303	Frequency sharing requirements Complian	
§97.305	Authorized emission types	Compliant
§97.307	Emissions standards	Compliant

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Report No.: AGC02294180607FE09 Page 10 of 44

# 4. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

#### LIST OF EQUIPMENTS USED

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2018	Jun. 11, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun. 12, 2018	Jun. 11, 2019
HORN ANTENNA	EM	EM-AH-10180	/	Mar.01, 2018	Feb.29, 2020
ANTENNA	SCHWARZBECK	VULB9168	VULB9168-494	Mar.01, 2018	Feb.29, 2020
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Small environmental tester	ESPEC	SH-242	The state of the s	Mar.02, 2018	Mar. 01, 2019
RF Communication Test Set	HP C	HP8920B	-AGC	Jun. 20, 2017	Jun. 19, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	The Alexandre	Mar.01, 2018	Feb.28, 2020

NOTE: 8920B can generate audio modulation frequency.

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### **5. DESCRIPTION OF TEST MODES**

#### **RF TEST MODES**

The EUT (TWO-WAY RADIOS) has been tested under normal operating condition. (The top channel, the middle channel and the bottom channel) are chosen for testing at each channel separation.

No.	TEST MODES	CHANNEL SEPARATION
1	Low Channel	12.5 KHz
2	Middle Channel	12.5 KHz
3	High Channel	12.5 KHz

#### **TEST MODES**

No.	A HE MAN	TEST MODES	Et a contraction of contraction
The the commence	C Aller and Colora C	Standby Mode + (Chargin	ig)
Page 2	50 200	тх	

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

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#### 6. CONDUCTED LIMITS

#### 6.1 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.

#### 6.2 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 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.

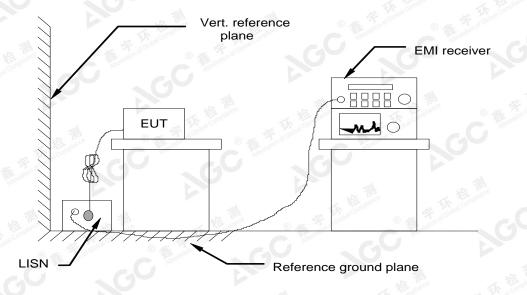
The test data of condition (mode 1) was reported on the following Data page.

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#### 6.3 TEST SETUP BLOCK DIAGRAM



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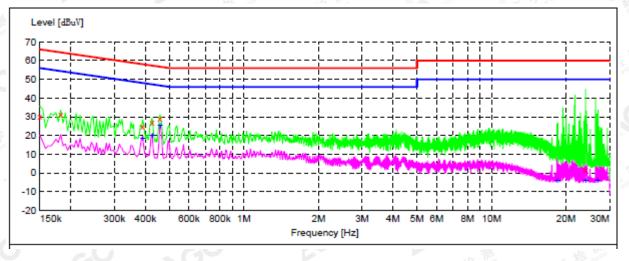




#### Report No.: AGC02294180607FE09 Page 14 of 44

#### **6.4 TEST RESULT**

LINE CONDUCTED EMISSION TEST-L1



#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	30.30	10.0	66	35.7	QP	L1	FLO
0.182000	31.10	10.0	64	33.3	QP	L1	FLO
0.390000	25.10	10.0	58	33.0	QP	L1	FLO
0.426000	27.20	10.0	57	30.1	QP	L1	FLO
0.458000	29.00	10.0	57	27.7	QP	L1	FLO
23.970000	1.70	10.2	60	58.3	QP	L1	FLO

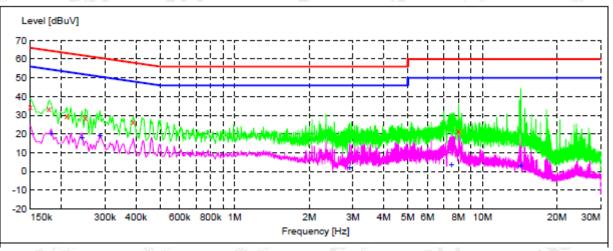
#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.390000 0.426000 0.458000 18.414000 23.970000	18.60 20.00 25.50 -4.00 -4.20	10.0 10.0 10.0 9.4 10.2	48 47 47 50 50	29.5 27.3 21.2 54.0 54.2	AV AV AV	L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO
26.770000	-4.00	10.2	50	54.2	AV AV	L1	FLO

#### **RESULT: PASS**

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#### LINE CONDUCTED EMISSION TEST-N



#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000 0.178000 0.210000 0.250000	34.60 33.40 29.90 28.40	10.0 10.0 10.1 10.1	66 65 63 62	33.3 33.4	QP QP QP	N N N N	FLO FLO FLO FLO
0.390000 8.018000	26.40 21.60	10.0 10.1	58 60	31.7 38.4		N N	FLO FLO

#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.182000 0.242000 0.286000 2.910000 7.506000 14.266000	19.90 17.80 18.90 2.00 3.70 3.00	10.0 10.1 10.1 9.9 9.9 9.6	54 52 51 46 50 50	34.5 34.2 31.7 44.0 46.3 47.0	AV AV AV	N N N N N	FLO FLO FLO FLO FLO FLO

**RESULT: PASS** 

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#### Report No.: AGC02294180607FE09 Page 16 of 44

# 7. FREQUENCY TOLERANCE

#### 7.1 PROVISIONS APPLICABLE

a). According to FCC Part 2 Section 2.1055(a)(1), the frequency stability shall be measured with variation of ambient temperature from  $-30^{\circ}$ C to  $+60^{\circ}$ C centigrade.

b). According to FCC Part 2 Section 2.1055(d)(2), for battery powered equipment, the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point, which is specified by the manufacturer.

#### 7.2 MEASUREMENT PROCEDURE

#### 7.2.1 Frequency stability versus environmental temperature

- 1. Setup the configuration per figure 1 for frequencies measurement inside an environment chamber, Install new battery in the EUT.
- Turn on EUT and set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1KHz and Video Resolution Bandwidth to 1KHz and Frequency Span to 50KHz.Record this frequency as reference frequency.
- 3. Set the temperature of chamber to 50°C. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
- 4. Repeat step 2 with a 10<sup>°</sup>C decreased per stage until the lowest temperature -30<sup>°</sup>C is measured, record all measured frequencies on each temperature step.

#### 7.2.2 Frequency stability versus input voltage

- Setup the configuration per figure 1 for frequencies measured at temperature if it is within 15<sup>°</sup>C to 25<sup>°</sup>C. Otherwise, an environment chamber set for a temperature of 20<sup>°</sup>C shall be used. The EUT shall be powered by DC 3.7 V
- 2. Set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1 KHz and Video Resolution Bandwidth to 1KHz. Record this frequency as reference frequency.
- 3. Supply the EUT primary voltage at the operating end point which is specified by manufacturer and record the frequency.

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#### Report No.: AGC02294180607FE09 Page 17 of 44

#### 7.3 TEST SETUP BLOCK DIAGRAM

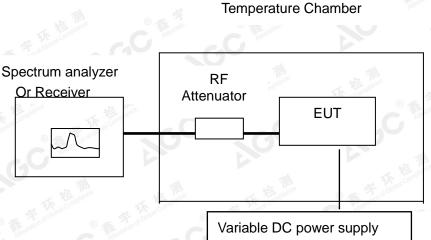


Figure 1

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#### Report No.: AGC02294180607FE09 Page 18 of 44

#### 7.4 TEST RESULT

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#### 12.5 KHz Channel Separation

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Environment	Power Supply	Re	ference Freque	ency	Limit:
Temperature(°C)	(V)	420.025MHz	435.025MHz	449.975 MHz	ppm
50	DC 3.70V	0.503	0.927	1.012	
40	DC 3.70V	0.962	0.980	0.609	© 5
30	DC 3.70V	0.859	0.644	0.826	Attes
20	DC 3.70V	0.749	0.902	0.612	
10	DC 3.70V	0.639	0.796	0.863	2.5
0	DC 3.70V	1.087	0.763	0.576	THE CO
-10	DC 3.70V	1.091	0.843	1.037	Dire
-20	DC 3.70V	0.705	0.628	0.560	
-30	DC 3.70V	0.720	1.002	0.517	
Result	Allester	N.	Pass		

Environment	Power Supply	Re	ference Freque	ency	Limit:
Temperature(°C)	(V)	420.025MHz	435.025MHz	449.975 MHz	ppm
50	DC 3.15V	0.916	0.807	0.879	0
40	DC 3.15V	0.407	0.665	0.712	0.7
30	DC 3.15V	0.338	0.431	0.921	C 3
20	DC 3.15V	0.530	0.321	0.855	
10	DC 3.15V	0.847	0.705	0.877	2.5
0	DC 3.15V	0.563	0.671	0.501	र्श्वज्ञ.
-10	DC 3.15V	0.525	0.781	0.531	The Com
-20	DC 3.15V	0.739	0.595	0.586	on of Gr
-30	DC 3.15V	0.442	0.864	0.975	
Result	onof Glou	1 .6	Pass		

Environment	Power Supply	Re	ference Freque	ncy	Limit:
Temperature(°C)	(V)	420.025MHz	435.025MHz	449.975MHz	ppm
50	DC 4.26V	0.535	0.509	0.624	
40 < C	DC 4.26V	0.361	0.502	0.900	-714
30	DC 4.26V	0.392	0.985	0.958	mplie
20	DC 4.26V	0.912	0.990	0.843	- 6
10	DC 4.26V	0.504	0.324	0.693	2.5
0	DC 4.26V	0.970	0.607	0.315	
-10	DC 4.26V	0.388	0.918	0.980	sh t
-20	DC 4.26V	0.454	0.605	0.898	Find Global
-30	DC 4.26V	0.814	0.760	0.349	estaur
Result	C Final Globa	C Thestation of C	Pass		

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Report No.: AGC02294180607FE09 Page 19 of 44

**(**) 400 089 2118

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Environment	Power Supply	Re	ference Freque	ncy	Limit:
Temperature(°C)	(V)	420.025MHz	435.025MHz	449.975MHz	ppm
50	DC 3.70V	0.609	0.567	1.053	
40	DC 3.70V	1.018	1.001	0.682	
30	DC 3.70V	0.634	0.643	0.670	
20	DC 3.70V	0.811	1.089	0.571	C Thest
10	DC 3.70V	0.973	0.736	0.698	2.5
O come	DC 3.70V	0.699	0.560	0.857	
-10	DC 3.70V	0.936	0.947	1.029	110-
-20	DC 3.70V	0.571	1.095	1.055	pliance
-30	DC 3.70V	1.006	0.994	0.568	
Result	K Compliance	The Complete	Pass	Austalia	NC

#### **25 KHz Channel Separation**

Environment	Power Supply	Re	ference Freque	ncy	Limit:
Temperature(°C)	(V)	420.025MHz	435.025MHz	449.975MHz	ppm
50	DC 3.15V	0.537	0.543	0.811	
40	DC 3.15V	0.908	1.144	0.853	
30	DC 3.15V	0.740	1.062	0.776	) C <sup>O</sup>
20	DC 3.15V	0.676	1.037	0.793	© <b>5</b>
10	DC 3.15V	0.835	0.704	0.505	2.5
0 5	DC 3.15V	0.927	0.800	0.742	
<ul> <li>-10</li> </ul>	DC 3.15V	0.963	0.705	0.985	
-20	DC 3.15V	0.819	0.575	0.820	、恒
-30	DC 3.15V	0.641	1.085	0.504	S Clobal Con
Result	The same	# Koobal Com	Pass	Allesia	1101.
Wel nance	Sh compile	in the state	a Hesto		

Environment	Power Supply	Re	ference Freque	ency	Limit:
Temperature(°C)	(V)	420.025MHz	435.025MHz	449.975 MHz	ppm
50	DC 4.26V	0.525	0.718	0.903	3
40	DC 4.26V	0.503	0.626	0.891	
30	DC 4.26V	0.647	0.625	1.078	107-
20	DC 4.26V	0.959	0.573	1.096	opliance
10	DC 4.26V	0.680	0.709	1.069	2.5
1	DC 4.26V	0.748	0.729	0.763	NC C
-10	DC 4.26V	0.679	0.763	0.822	
-20	DC 4.26V	1.098	0.598	0.963	
-30	DC 4.26V	0.687	1.061	1.084	AF C
Result	Pass				

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#### Report No.: AGC02294180607FE09 Page 20 of 44

#### 8. EMISSION BANDWIDTH

#### **8.1 PROVISIONS APPLICABLE**

According to FCC Part 97 Section 97.305: The authorized bandwidth shall be 100 KHz

#### **8.2 MEASUREMENT PROCEDUR**

- 1). The EUT was modulated by 2.5 KHz Sine wave audio signal, The level of the audio signal employed is 16 dB greater than that necessary to produce 50% of rated system deviation. Rated system deviation is 2.5 kHz (12.5 kHz channel spacing).
- 2). Set SPA Center Frequency = fundamental frequency, RBW=100 Hz, VBW= 300 Hz, Span = 50 KHz.
- 3). Set SPA Max hold. Mark peak, -26 dB.

#### 8.3 TEST SETUP BLOCK DIAGRAM



Spectrum Analayzer

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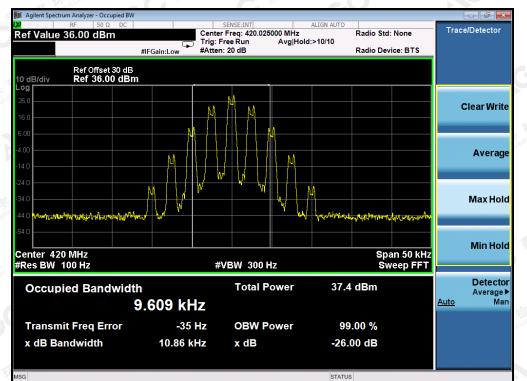
EUT



#### **8.4 MEASUREMENT RESULT**

26 dB Bandwidth Measurement Result								
		12.5 KHz Channel Separ						
Operating Frequency	Test Data	Limits	Result					
420.025MHz	10.86 KHz	100 KHz	Pass					

#### Occupied bandwidth of Top Channel (Maximum) @ 12.5 KHz Channel Separation-2W

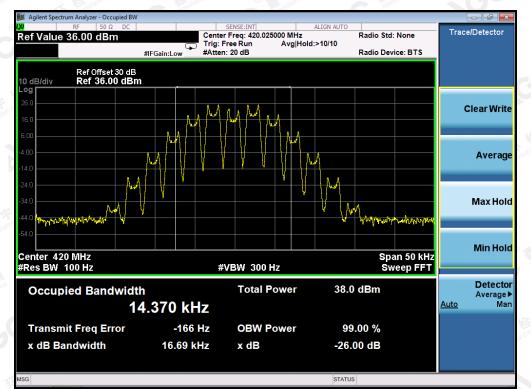


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and a solution									
26 dB Bandwidth Measurement Result									
Operating Frequency		25 KHz Channel Separation							
	Test Data	Limits	Result						
420.025MHz 16.69 KHz		100 KHz	Pass						
		- 104	12. 1. CO						

#### Occupied bandwidth of Top Channel (Maximum) @ 25 KHz Channel Separation-2W



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#### Report No.: AGC02294180607FE09 Page 23 of 44

#### 9. UNWANTED RADIATION

#### 9.1 PROVISIONS APPLICABLE

(1) No amateur station transmission shall occupy more bandwidth than necessary bandwidth for the information rate and emission type being transmitted, in accordance with good amateur practice.

(2) Emissions resulting from modulation must be confined to the band or segment available to the control operator. Emissions outside the necessary bandwidth must not cause splatter or key click interference to operations on adjacent frequencies.

(3) The mean power of any spurious emissions from a station transmitter or external RF power amplifier transmitting on a frequency between 30-225 MHz must be at least 60dB below the mean power of the fundamental. For a transmitter having a mean power of 22W or less, the mean power of any spurious emission supplied to the antenna transmission line must not exceed 25 uW and must be at least 40dB below the mean power of the fundamental emission, but need not be reduced below the power of 10uW.

#### 9.2 MEASUREMENT PROCEDURE

(1)On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.

(2)The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.

(3)The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.

(4)The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.

(5)The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.

(6)The transmitter shall than be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.

(7)The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.

(8) The maximum signal level detected by the measuring receiver shall be noted.

(9)The measurement shall be repeated with the test antenna set to horizontal polarization.

(10) Replace the antenna with a proper Antenna (substitution antenna).

(11)The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.

(12)The substitution antenna shall be connected to a calibrated signal generator.

(13)If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.

(14)The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.

(15)The input signal to substitution antenna shall be adjusted to the level that produces a level detected by

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Report No.: AGC02294180607FE09 Page 24 of 44

the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.

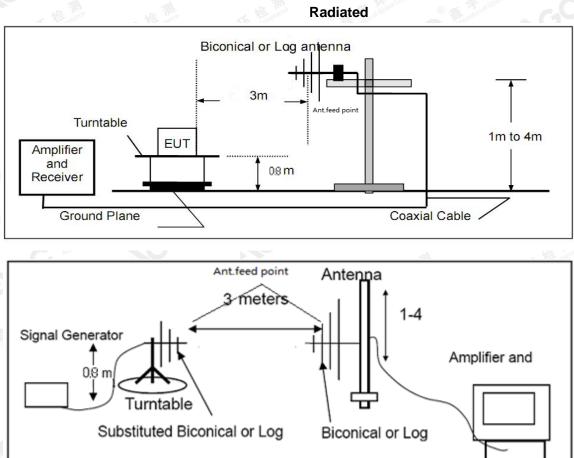
(16)The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.

(17)The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

#### 9.3 TEST SETUP BLOCK DIAGRAM

SUBSTITUTION METHOD: (Radiated Emissions)

#### **Radiated Below 1GHz**



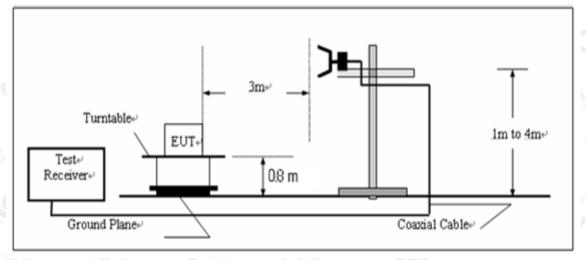
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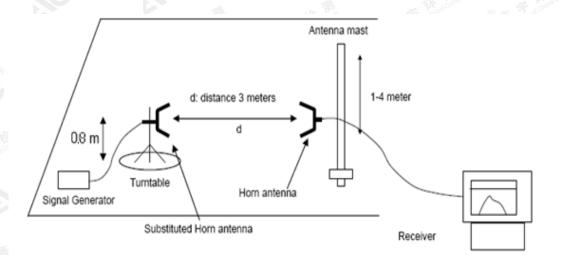




Report No.: AGC02294180607FE09 Page 25 of 44

#### **Radiated Above 1 GHz**





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#### Report No.: AGC02294180607FE09 Page 26 of 44

### 9.4 MEASUREMENT RESULTS:

#### Measurement Result for 12.5/25 KHz Channel Separation

Limit is at least 60dB below the mean power of the fundamental. For a transmitter having a mean power of 22W or less, the mean power of any spurious emissions supplied to the antenna transmission line must not exceed 25uW and must be at least 40dB below the mean power of the fundamental emission.

Bottom Channel									
Frequency	Antenna	S.G.	Cable loss	Correction	Emission level	Limit	Margin		
(MHz)	Hz) (dBuV) Polarization		(dBm) (dB) (dB)		(dB)	(dBm)	(dBm)	(dB)	
			-	E # 0	The stand Constant	C The state of the score	-16	Allestation	

	3 de ste		station	Attest IVII				×	X
- ×	Frequency	Reading level	Antenna	S.G.	Cable loss	Correction	Emission level	Limit	Margin
	(MHz)	(dBuV)	Polarization	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
5	Hannanden -	The the manual	C Antestation of Global	° C	Allestation of Co	<u>C</u>	0	-16	

Middle Channel

<u> </u>			Top Channel			R F TorGlobal CC	C The station of Glos		
Frequency	Reading level	Antenna	SG Cable loss Correction		Emission level	Limit	Margin		
(MHz)	(dBuV) Polarization		(dBm) (dB) (dB)		(dB)	(dBm)	(dBm)	(dB)	
				The The providence	The the		-16	C Hand	

Notes:"--" means that the emission level is too low to be measured or at least 20 dB down than the limit.

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#### Report No.: AGC02294180607FE09 Page 27 of 44

#### **10. MODULATION CHARACTERISTICS**

#### **10.1 PROVISIONS APPLICABLE**

According to CFR 47 section 2.1047(a), for Voice Modulation Communication Equipment, the frequency response of the audio modulation circuit over a range of 100 to 5000Hz shall be measured.

#### **10.2 MEASUREMENT METHOD**

#### **10.2.1 Modulation Limit**

- (1). Configure the EUT as shown in figure 1, adjust the audio input for 60% of rated system deviation at 1KHz using this level as a reference (0dB) and vary the input level from -20 to +20dB. Record the frequency deviation obtained as a function of the input level.
- (2). Repeat step 1 with input frequency changing to 300, 1000, 1500 and 3000Hz in sequence.

#### **10.2.2 Audio Frequency Response**

- (1). Configure the EUT as shown in figure 1.
- (2). Adjust the audio input for 20% of rated system deviation at 1 KHz using this level as a reference (0 dB).
- (3). Vary the Audio frequency from 100 Hz to 10 KHz and record the frequency deviation.
- (4). Audio Frequency Response = 20log10 (Deviation of test frequency/Deviation of 1 KHz reference).

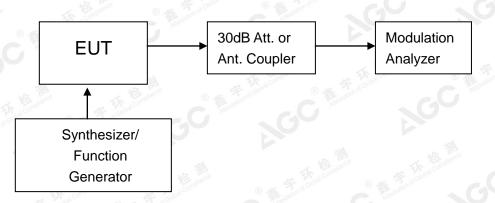


Figure 1: Modulation characteristic measurement configuration

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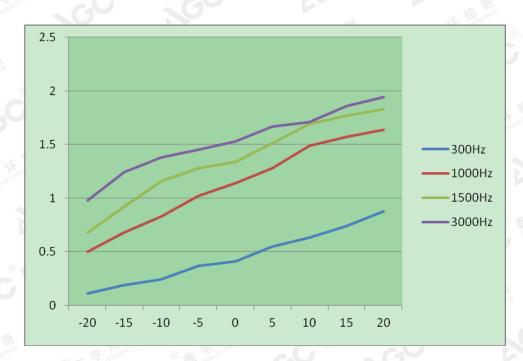


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#### **10.3 MEASUREMENT RESULT**

#### (A). MODULATION LIMIT:

Mide	dle Channel @ 12	2.5 KHz Channel S	Separations-H Por	wer
Modulation Level (dB)	Peak Freq. Deviation At 300 Hz	Peak Freq. Deviation At 1000 Hz	Peak Freq. Deviation At 1500 Hz	Peak Freq. Deviation At 3000 Hz
-20	0.11	0.50	0.68	0.98
-15	0.19	0.68	0.92	1.24
-10	0.24	0.83	1.16	1.38
-5	0.37	1.02	1.28	1.45
0	0.41	1.14	1.34	1.53
+5 🛛 🐔	0.55	1.28	1.51	1.67
+10	0.63	1.49	1.69	1.71
+15	0.74	1.57	1.77	1.86
+20	0.88	1.64	1.83	1.94



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#### (B). AUDIO FREQUENCY RESPONSE:

Middle Channel @ 12.5 KHz Channel Separations

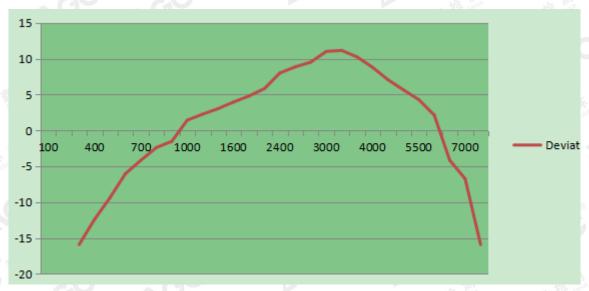
Frequency (Hz)	Deviation (KHz)	Audio Frequency Response(dB)
100		
200		
300	0.09	-14.89
400	0.11	-13.15
500	0.15	-10.46
600	0.2	-7.96
700	0.27	-5.35
800	0.36	-2.85
900	0.44	-1,11
1000	0.51	0.17
1200	0.59	1.44
1400	0.68	2.67
1600	0.71	3.05
1800	0.85	4.61
2000	0.98	5.85
2400	1.11	6.93
2500	1.35	8.63
2800	1.41	9.00
3000	1.63	10.26
3200	1.58	9.99
3600	1.29	8.23
4000	0.95	5.58
4500	0.88	4.91
5000	0.67	2.54
5500	0.47	-0.54
6000	0.26	-5.68
6500	0.12	-12.40
7000	0.08	-15.92
7500	0.04	-21.94
9000	Burne The Standard - O The standard	
10000	· · · · · · · · · · · · · · · · · · ·	-6
14000		
18000		The Benning The There Comment
20000	The market of the comparison of the second s	S Salar C
30000	- Friday Come Come - Come - Come	

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Report No.: AGC02294180607FE09 Page 30 of 44





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Report No.: AGC02294180607FE09 Page 31 of 44

#### **11. MAXIMUMN TRANSMITTER POWER**

#### **11.1 PROVISIONS APPLICABLE**

Per FCC §2.1046 and §97.313: No station may transmit with a transmitter power exceeding 1.5 kW PEP.

#### **11.2 TEST PROCEDURE**

The RF output of Two-way Radio was conducted to a spectrum analyzer through an appropriate attenuator.

#### **11.3 TEST CONFIGURATION**



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#### Report No.: AGC02294180607FE09 Page 32 of 44

#### **11.4 TEST RESULT**

The maximum Conducted Power (CP) is

H; 2W/L: 1W for 12.5 KHz/25 KHz Channel Separation

Calculation Formula: CP = R + A + L

\* Note:

CP: The final Conducted Power

R : The reading value from spectrum analyzer

A : The attenuation value of the used attenuator

L : The loss of all connection cables

Co	Conducted Power Measurement Results									
Channel Concretion	Channel	Measurement Result (dBm)								
Channel Separation	Channel	For 36.99dBm(2W)								
	Bottom(420.025MHz)	36.86								
12.5 KHz	Middle(435.025MHz)	36.71								
the market of the second of the second	Top (449.975MHz)	36.77								
C Americano C	Bottom(420.025MHz)	36.70								
25 KHz	Middle(435.025MHz)	36.89								
The Barrier of The accounts	Top (449.975MHz)	36.82								

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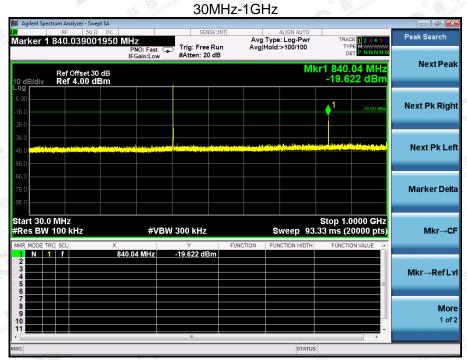


#### **11.5 CONDUCT SPURIOUS PLOT**

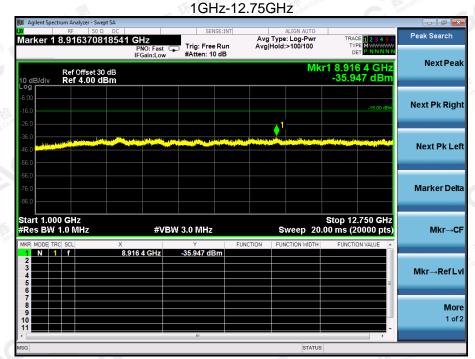
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#### Conducted Spurious Emission (worst) @ 420.025MHz With 12.5 KHz Channel Separation-2W



#### Conduct Spurious Emission (worst) @ 420.025MHz With 12.5 KHz Channel Separation-2W

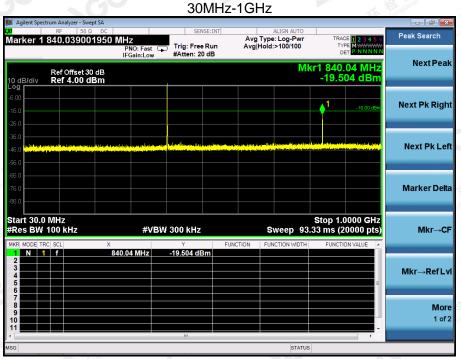


Note: All the test frequencies had been tested, but only the worst data (bottom channel) recorded in the report.

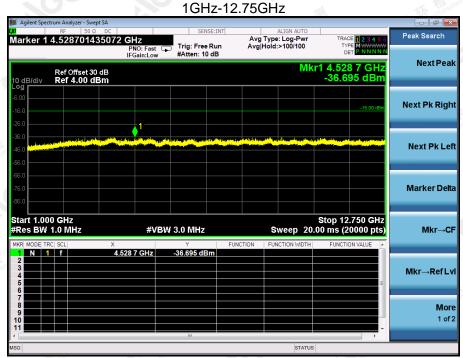
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Conducted Spurious Emission (worst) @ 420.025MHz With 25 KHz Channel Separation-2W



Conduct Spurious Emission (worst) @ 420.025MHz With 25 KHz Channel Separation-2W



Note: All the test frequencies had been tested, but only the worst data (bottom channel) recorded in the report.

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Report No.: AGC02294180607FE09 Page 35 of 44

#### **12. RADIATED EMISSION ON RECEIVING MODE**

#### **12.1 PROVISIONS APPLICABLE**

FCC Part 15 Subpart B Section 15.109

#### **12.2 TEST METHOD**

ANSI C 63.4: 2014

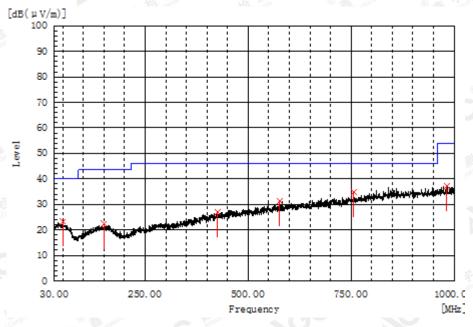
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#### Report No.: AGC02294180607FE09 Page 36 of 44

#### 12.3 MEASURE RESULT (MEASURED AT 3M USING FCC PART15 B LIMITS)

#### RADIATED EMISSION TEST RESULTS - HORIZONTAL



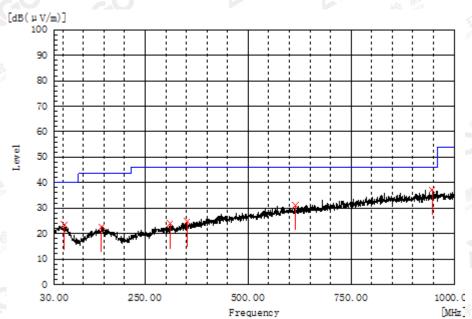
G G	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
ľ	51.340	H	6.3	17.0	23.3	40.0	16.7	Pass	200.0	87.3
6	149.795	· Hanner of Con	5.8	16.6	22.4	43.5	21.1	Pass	150.0	178.5
	426.245	н	5.5	21.6	27.1	46.0	18.9	Pass	200.0	46.3
	576.595	H	6.8	24.5	31.3	46.0	14.7	Pass	200.0	87.3
inco	756.045	not Global Collin	7.1	27.7	34.8	46.0	11.2	Pass	200.0	336.9
	982.540	Н	6.3	31.0	37.3	54.0	16.7	Pass	100.0	107.5

#### **RESULT: PASS**

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#### Report No.: AGC02294180607FE09 Page 37 of 44



#### RADIATED EMISSION TEST RESULTS - VERTICAL

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
53.280	V	6.6	16.8	23.4	40.0	16.6	Pass	200.0	307.5
144.460	V	6.0	16.6	22.6	43.5	20.9	Pass	100.0	71.6
309.845	V starter	6.4	17.6	24.0	46.0	22.0	Pass	200.0	344.1
353.010	V	5.8	19.0	24.8	46.0	21.2	Pass	150.0	178.8
614.910	V	6.0	25.2	31.2	46.0	14.8	Pass	200.0	270.3
946.650	V o	6.5	30.6	37.1	46.0	8.9	Pass	100.0	181.5

#### **RESULT: PASS**

NOTE: The test results of above 1G are all 20 dB margin below the limits.

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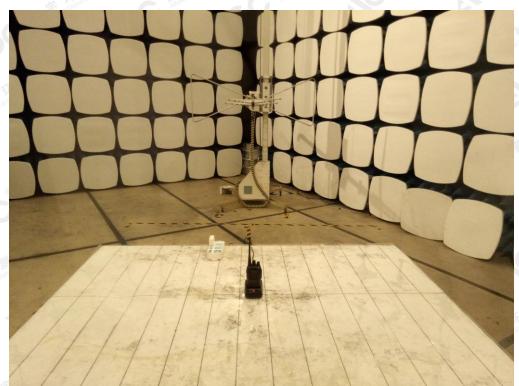
Report No.: AGC02294180607FE09 Page 38 of 44

# **APPENDIX 1: PHOTOGRAPHS OF SETUP**

CONDUCTED EMISSION TEST SETUP



RADIATED EMISSION TEST SETUP-Below 1GHz



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Report No.: AGC02294180607FE09 Page 39 of 44

#### **APPENDIX 2: EXTERNAL VIEW OF EUT**

TOTAL VIEW OF EUT



#### TOP VIEW OF EUT



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Report No.: AGC02294180607FE09 Page 40 of 44

#### BOTTOM VIEW OF EUT



#### FRONT VIEW OF EUT



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Report No.: AGC02294180607FE09 Page 41 of 44

#### BACK VIEW OF EUT



LEFT VIEW OF EUT



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Report No.: AGC02294180607FE09 Page 42 of 44

#### **RIGHT VIEW OF EUT**



**OPEN VIEW-1 OF EUT** 



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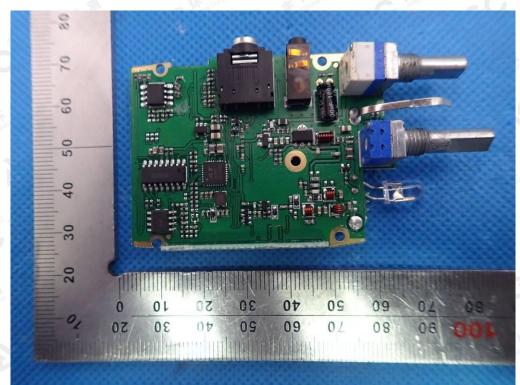


Report No.: AGC02294180607FE09 Page 43 of 44

#### **INTERNAL VIEW-1 OF EUT**



**INTERNAL VIEW-2 OF EUT** 

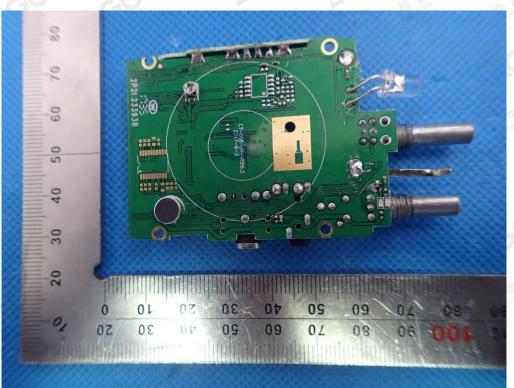


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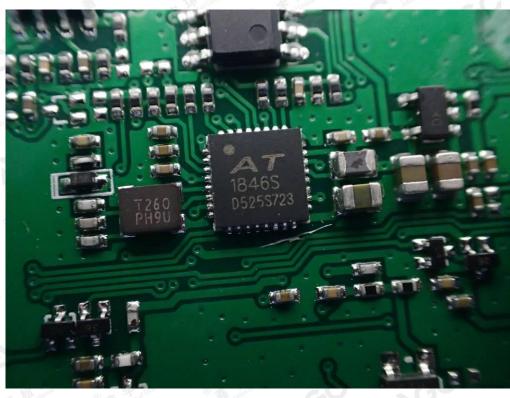


Report No.: AGC02294180607FE09 Page 44 of 44

#### **INTERNAL VIEW-3 OF EUT**



#### **INTERNAL VIEW-4 OF EUT**



#### ----END OF REPORT----

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