



# FCC Part 95 Rules TEST REPORT

Test report  
On Behalf of  
DGL Group LTD.  
For  
DGL Group LTD.

Model No.: NFL-WT, NFL-WT-XXX, NFL-WT-DAL, NFL-WT-GBY,  
NFL-WT-NE, NFL-WT-PHI, NFL-WT-PIT, NFL-WT-SEA

FCC ID: 2AANZWT

Prepared for : DGL Group LTD.  
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Date of Test: Aug. 28, 2018~Sep. 11, 2018

Date of Report: Nov. 06, 2018

Report Number: HK1809111045E



### TEST RESULT CERTIFICATION

**Applicant's name** ..... : DGL Group LTD.  
 Address ..... : 195 Raritan Center Parkway Edison, New Jersey United States 08837  
**Manufacture's Name**..... : DGL Group LTD.  
 Address ..... : 195 Raritan Center Parkway Edison, New Jersey United States 08837  
**Product description** WALKIE TALKIE SET  
 Brand Name NFL  
 Mode Name NFL-WT  
**Standards** ..... : FCC Rules and Regulations Part 95

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**Date of Test** ..... :  
 Date (s) of performance of tests ..... : **Aug. 28, 2018~Sep. 11, 2018**  
 Date of Issue ..... : **Nov. 06, 2018**  
 Test Result..... : **Pass**

Testing Engineer :   
 (Gary Qian)

Technical Manager :   
 (Eden Hu)

Authorized Signatory :   
 (Jason Zhou)



Revision	Issue Date	Revisions	Revised By
V1.0	Sep. 11, 2018	Initial Issue	Jason Zhou
V1.1	Oct. 30, 2018	Updated comments	Jason Zhou
V1.2	Oct. 31, 2018	Updated comments	Jason Zhou
V1.3	Nov. 06, 2018	Updated comments	Jason Zhou



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## 1. GENERAL INFORMATION

### 1.1 PRODUCT DESCRIPTION

The EUT is a FRS Radio designed for voice communication. It is designed by way of utilizing the FM modulation achieves the system operating.

A major technical description of EUT is described as following:

Hardware Version	ZR-301
Software Version	N/A
Modulation	FM
Channel Separation	12.5KHz
Emission Type	11K0F3E
Emission Bandwidth	10.17KHz
Maximum Transmitter Power	9.50dBm
Rated Output power	0.010W (It was fixed by the manufacturer, any individual can't arbitrarily change it.)
Antenna Designation	Inseparable
Antenna Gain	2.15dBi
Power Supply	DC4.5V, by 3*1.5V Battery
Limiting Voltage	DC 3.8 V~ 5.18V
Operation Frequency Range and Channel	FRS: 462.5625MHz Test Channel :1 channel
Frequency Tolerance	0.994ppm



**Channel List:**

<b>CH. No</b>	<b>CH. Freq</b>
1	462.5625



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

This submittal(s) (test report) is intended for FCC ID: **2AANZWT**, filing to comply with the FCC Part 95 requirements.

## 1.3 TEST METHODOLOGY.

The radiated emission testing was performed according to the procedures of TIA/EIA 603.

## 1.4 TEST FACILITY

<b>Site</b>	Shenzhen HUAK Testing Technology Co., Ltd.
<b>Location</b>	1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street, Bao'an District, Shenzhen City, China
<b>Designation Number</b>	CN1229
Test Firm Registration Number : 616276	

## 1.5 SPECIAL ACCESSORIES

Not available for this EUT intended for grant.

## 1.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.



## **2. SYSTEM TEST CONFIGURATION**

### **2.1 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.

### **2.2 EUT EXERCISE**

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



## 2.4 CONFIGURATION OF TESTED SYSTEM

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

Item	Equipment	Model No.	Identifier	Note
1	WALKIE TALKIE SET	NFL-WT	FCC ID: 2AANZWT	EUT

## 3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§ 95.567	Maximum Transmitter Power	Compliant
§ FCC part 2.1047(a) § 95.575	Modulation Characteristics	Compliant
§ FCC part 2.1049 § 95.573 § 95.579	Occupied Bandwidth and Emission Mask	Compliant
§ FCC Part 2.1055 § 95.565	Frequency Stability	Compliant
§ 95.579(a3)	Transmitter Radiated Spurious Emission	Compliant

**LIST OF EQUIPMENTS USED**

<b>Equipment</b>	<b>Manufacturer</b>	<b>Model</b>	<b>S/N</b>	<b>Cal. Date</b>	<b>Cal. Due</b>
Receiver	R&S	ESCI 7	HKE-010	2017/12/28	2019/12/26
Spectrum analyzer	Agilent	N9020A	HKE-048	2017/12/28	2018/12/27
Horn Antenna	Schwarzbeck	9120D	HKE-013	2017/12/28	2019/12/26
Preamplifier	EMCI	EMC051845SE	HKE-015	2017/12/28	2018/12/27
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	HKE-087	2017/12/28	2018/12/27
Preamplifier	Schwarzbeck	BBV 9743	HKE-006	2017/12/28	2018/12/27
Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	2017/12/28	2018/12/27
Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	2017/12/28	2018/12/27
Small environmental tester	ESPEC	SH-242	HKE-088	2018/03/02	2019/03/01
RF Communication Test Set	HP	HP8920B	HKE-089	2018/06/12	2019/06/11
ANTENNA	A.H.	SAS-521-4	HKE-091	2018/03/01	2020/02.28
ANTENNA	Schwarzbeck	9168	HKE-095	2018/03/01	2020/02.28
HORN ANTENNA	E.M.	EM-AH-10180	HKE-090	2018/03/01	2020/02.28



#### 4. DESCRIPTION OF TEST MODES

##### RF TEST MODES

The EUT (Two way radio) has been tested under normal operating condition. (FRS TX) are chosen for testing at each channel separation.

No.	TEST MODES	CHANNEL SEPARATION
1	FRS TX	12.5 KHz

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



## 5. FREQUENCY TOLERANCE

### 5.1 PROVISIONS APPLICABLE

Standard Applicable [Part 95.565, Part 95.565]The carrier frequency stability is the ability of the transmitter to maintain an assigned carrier frequency.

FRS: The carrier frequency tolerance shall be better than  $\pm 2.5$  ppm.

### 5.2 MEASUREMENT PROCEDURE

#### 5.2.1 Frequency stability versus environmental temperature

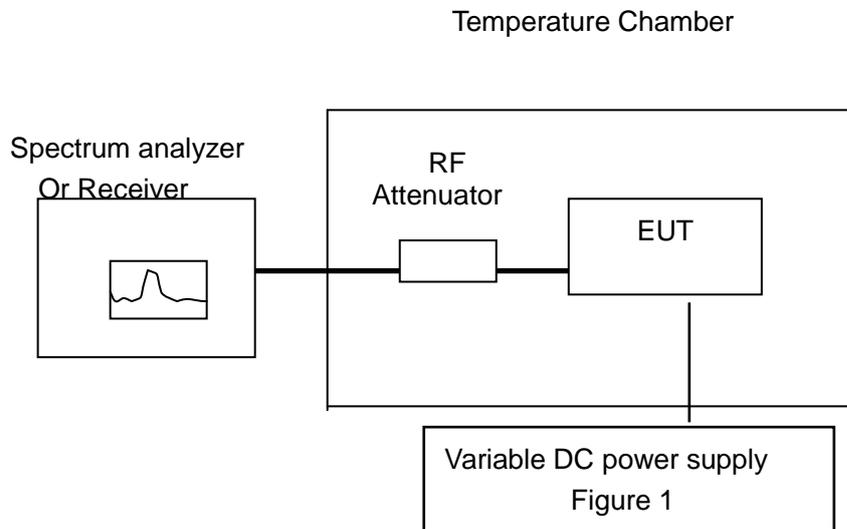
1. Setup the configuration per figure 1 for frequencies measurement inside an environment chamber, Install new battery in the EUT.
2. Turn on EUT and set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1KHz and Video Resolution Bandwidth to 1KHz and Frequency Span to 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°C decreased per stage until the lowest temperature -30°C is measured, record all measured frequencies on each temperature step.

#### 5.2.2 Frequency stability versus input voltage

1. Setup the configuration per figure 1 for frequencies measured at temperature if it is within 15°C to 25°C. Otherwise, an environment chamber set for a temperature of 20°C shall be used. The EUT shall be powered by DC 4.8V.
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.



### 5.3 TEST SETUP BLOCK DIAGRAM



**5.4 TEST RESULT**

(1) Frequency stability versus input voltage (Supply nominal voltage is 4.50V)

Environment Temperature(°C)	Power (V)	Reference Frequency 462.5625MHz	Limit: ppm
50	DC 4.50V	0.994	±2.5for FRS
40	DC 4.50V	0.884	
30	DC 4.50V	0.728	
20	DC 4.50V	0.894	
10	DC 4.50V	0.734	
0	DC 4.50V	0.688	
-10	DC 4.50V	0.582	
-20	DC 4.50V	0.754	
-30	DC 4.50V	0.887	
Result	Pass		

(2) Frequency stability versus input voltage (Battery limiting voltage is 3.8V)

Environment Temperature(°C)	Power (V)	Reference Frequency 462.5625MHz	Limit: ppm
50	DC 3.80V	0.785	±2.5for FRS
40	DC 3.80V	0.634	
30	DC 3.80V	0.628	
20	DC 3.80V	0.684	
10	DC 3.80V	0.783	
0	DC 3.80V	0.772	
-10	DC 3.80V	0.729	
-20	DC 3.80V	0.842	
-30	DC 3.80V	0.879	
Result	Pass		

(3) Frequency stability versus input voltage (Battery Fully Charged voltage is 5.18V)

Environment Temperature(°C)	Power (V)	Reference Frequency 462.5625MHz	Limit: ppm
50	DC 5.18V	0.774	±2.5for FRS
40	DC 5.18V	0.848	
30	DC 5.18V	0.918	
20	DC 5.18V	0.734	
10	DC 5.18V	0.838	
0	DC 5.18V	0.679	
-10	DC 5.18V	0.554	
-20	DC 5.18V	0.893	
-30	DC 5.18V	0.937	
Result	Pass		



## 6. EMISSION BANDWIDTH

### 6.1 PROVISIONS APPLICABLE

FCC Part 95.573: FRS: The authorized bandwidth for an FRS unit is 12.5 kHz.

Occupied Bandwidth (Section 2.1049, 95.573): The EUT was connected to the audio signal generator and the spectrum analyzer via the main RF connector, and through an appropriate attenuator. The EUT was controlled to transmit its maximum power. Then the bandwidth of 99% power can be measured by the spectrum analyzer.

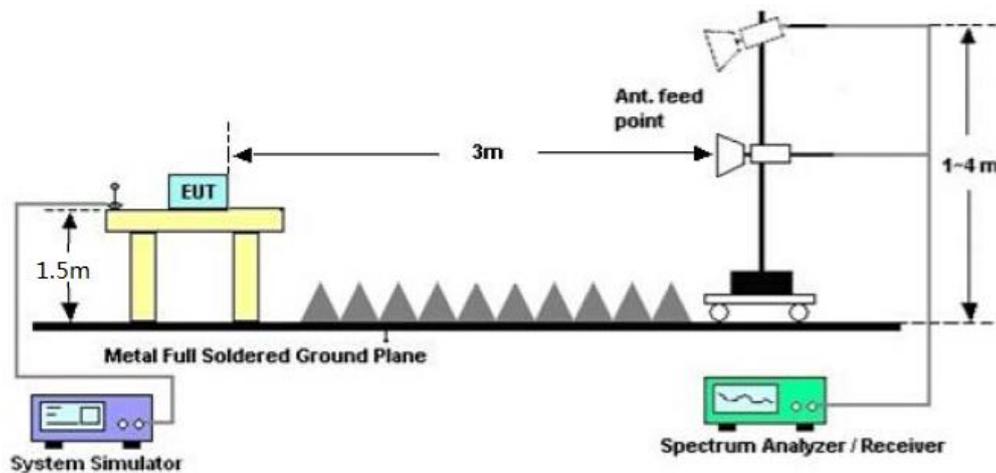
### 6.2 MEASUREMENT PROCEDURE

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=100Hz.VBW= 300 Hz, Span =50 KHz.

3). Set SPA Max hold. Mark peak, -26 dB.

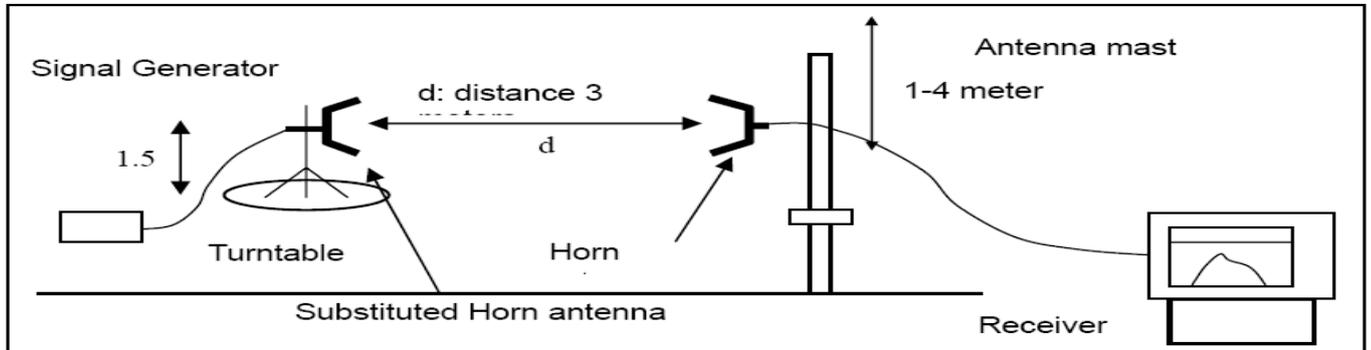
### 6.3 TEST SETUP BLOCK DIAGRAM





**SUBSTITUTION METHOD:**

**RADIATED ABOVE 1 GHZ**

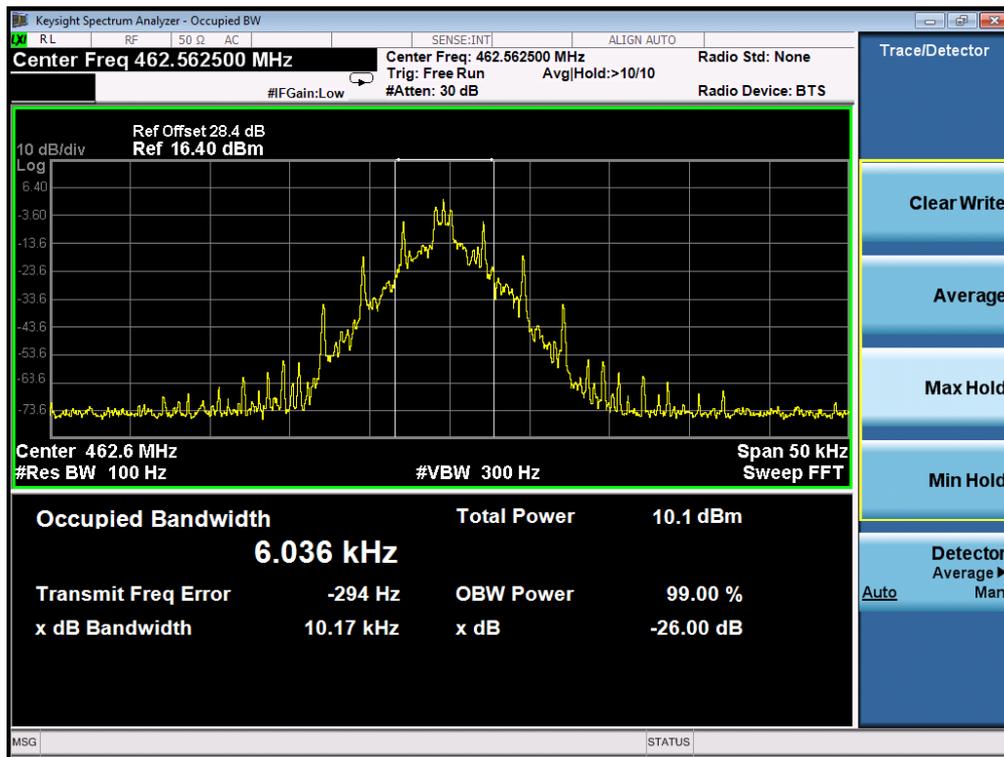




**6.4 MEASUREMENT RESULT**

26 dB Bandwidth Measurement Result			
Operating Frequency	12.5 KHz Channel Separation		
	Test Data	Limits	Result
462.5625MHz	10.17KHz	11.25 KHz	Pass

**Occupied bandwidth of 462.5625MHz**





## 7. UNWANTED RADIATION

### 7.1 PROVISIONS APPLICABLE

Standard Applicable [FCC Part 95.579]

According to FCC section 95.579, the unwanted emission should be attenuated below TP by at least  $43+10 \log(\text{Transmit Power})$  dB.

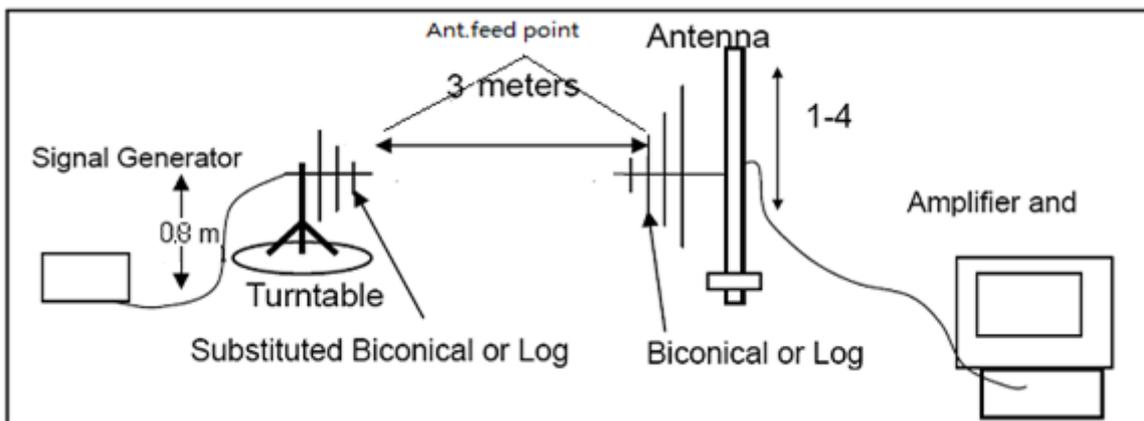
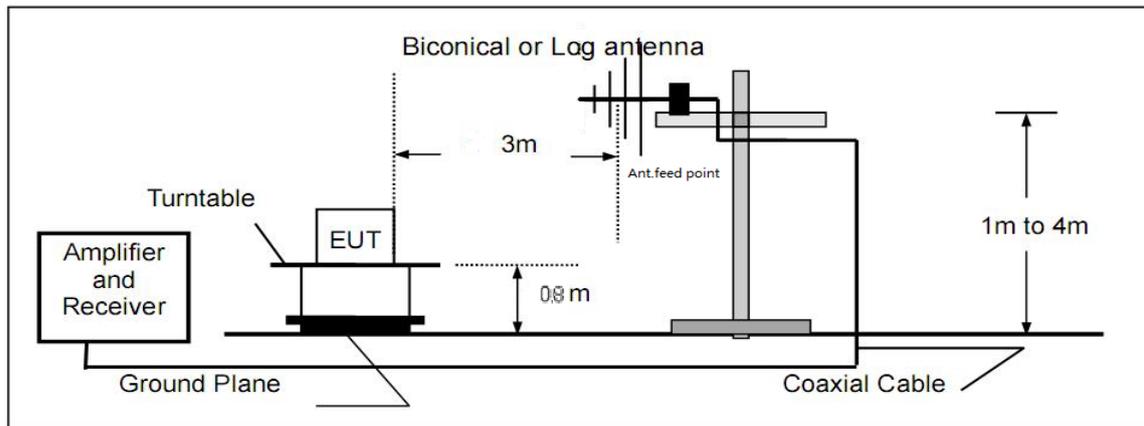
### 7.2 MEASUREMENT PROCEDURE

- (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 then 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 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.

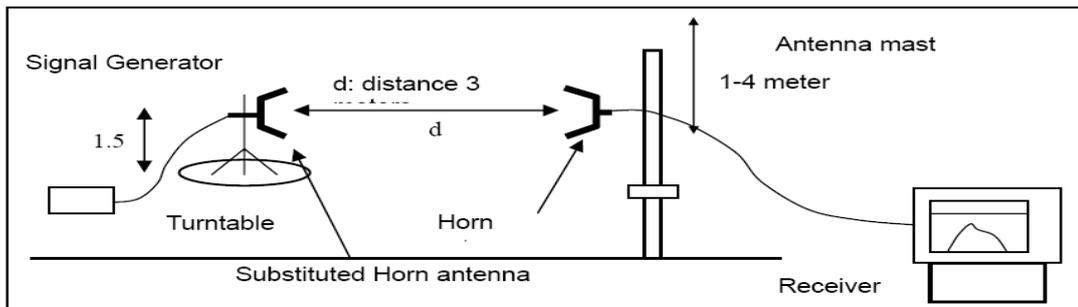
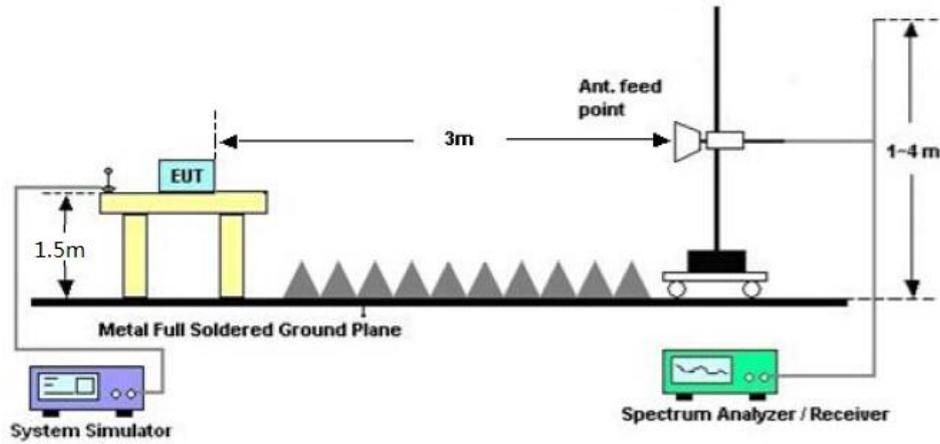
### 7.3 TEST SETUP BLOCK DIAGRAM

#### SUBSTITUTION METHOD: (Radiated Emissions)

##### Radiated Below 1GHz



##### Radiated Above 1 GHz



### 7.4 MEASUREMENT RESULTS:

the unwanted emission should be attenuated below TP by at least  $43+10 \log(\text{Transmit Power})$  dB

Limit: At least  $43+10 \log(P) = 43+10 \log(2) = 46$  (dBc)     $33-46 = -13$  dBm

**Measurement Result for 12.5 KHz Channel Separation @ 462.5625MHz**

Emission Frequency (MHz)	Ant. Polarity(H/V)	Measurement Result (dBm)	Limit (dBm)	Result(P/F)
462.5625	H	0		pass
925.1250	H	-45.7	-13	pass
1387.69	H	-40.9	-13	pass
1850.250	H	-48.6	-13	pass
2312.813	H	-38.6	-13	pass
2775.375	H	-44.4	-13	pass
3237.938	H	-58.9	-13	pass
3700.500	H	-49.3	-13	pass
4163.063	H	-48.8	-13	pass
4625.625	H	-48.5	-13	pass

Emission Frequency (MHz)	Ant. Polarity(H/H)	Measurement Result (dBm)	Limit (dBm)	Result(P/F)
462.5625	V	0		pass
925.125	V	-47.3	-13	pass
1387.69	V	-48.6	-13	pass
1850.250	V	-48.8	-13	pass
2312.813	V	-44.7	-13	pass
2775.375	V	-46.8	-13	pass
3237.938	V	-48.1	-13	pass
3700.500	V	-48.4	-13	pass
4163.063	V	-49.7	-13	pass
4625.625	V	-47.5	-13	pass





## 8. MAXIMUM TRANSMITTER POWER

### 8.1 PROVISIONS APPLICABLE

Per FCC §2.1046 and §95.567: Maximum ERP is dependent upon the station's antenna HAAT and required service area.

FCC Part 95.567 For FRS, FRS transmitter type must be designed such that the effective radiated power (ERP) on channels 8 through 14 does not exceed 0.5 Watts and the ERP on channels 1 through 7 and 15 through 22 does not exceed 2.0 Watts.

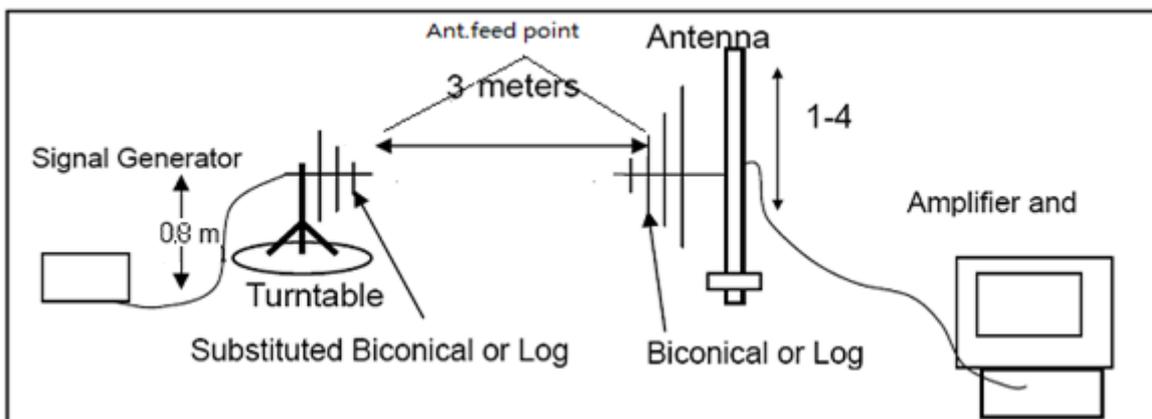
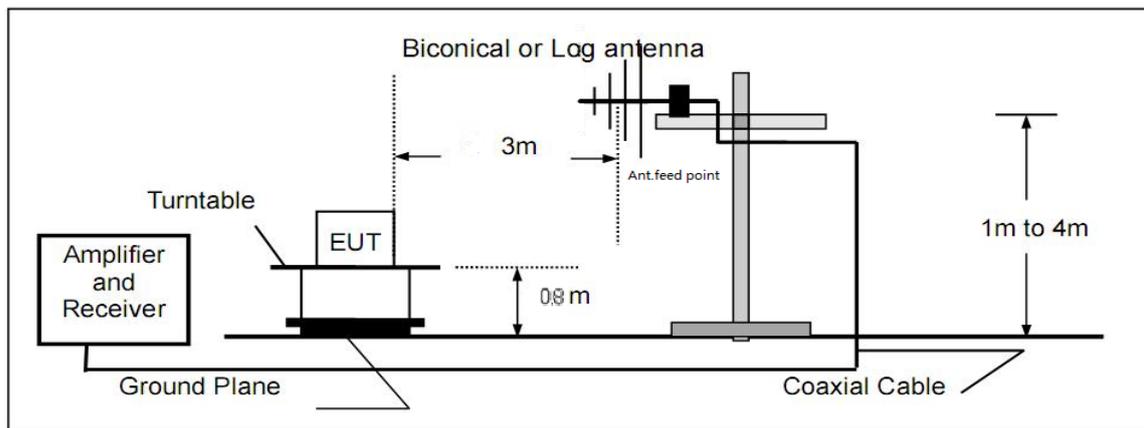
### 8.2 TEST PROCEDURE

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

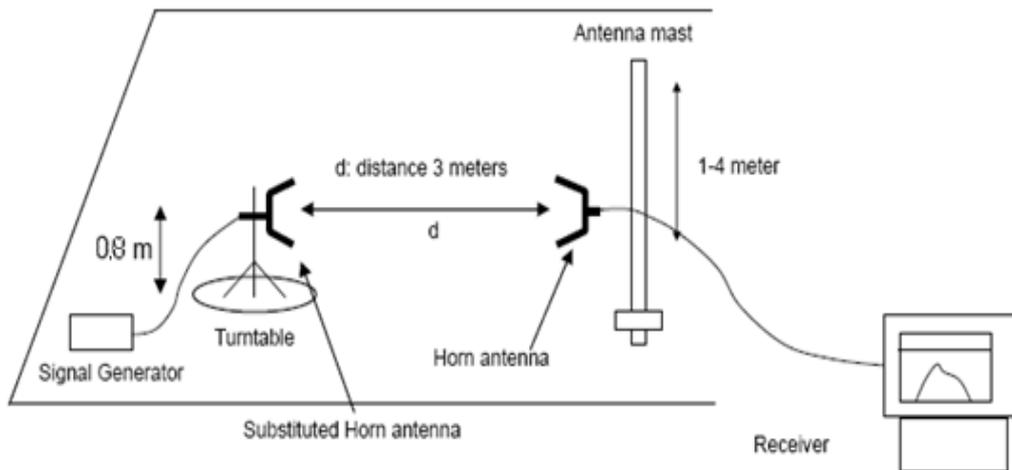
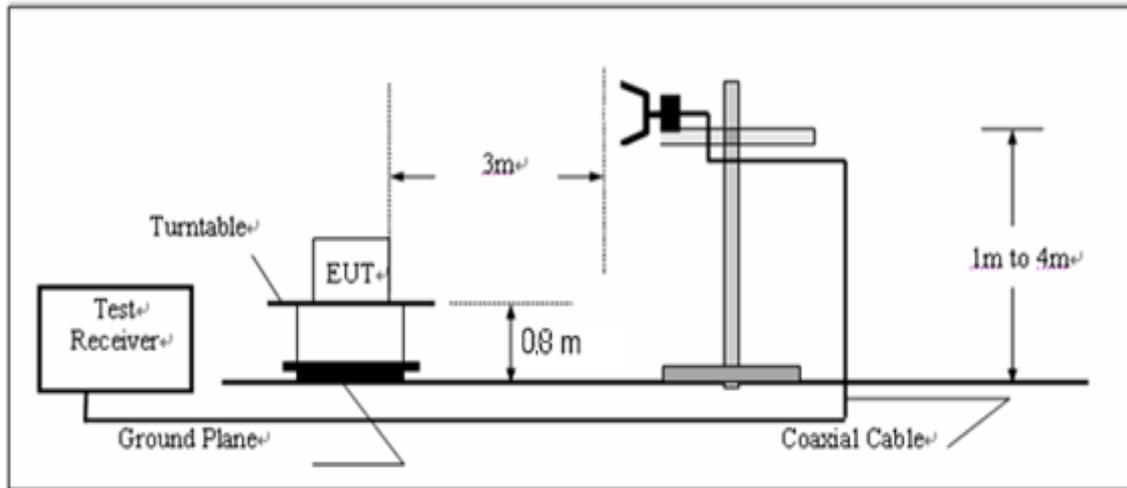
### 8.3 TEST CONFIGURATION

#### Effective Radiated Power

#### Radiated Below 1GHz



**Radiated Above 1 GHz**



**8.4 TEST RESULT**

The maximum Power (CP) for UHF is

Analogue: 0.010W for 12.5 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



<b>Radiated Power Measurement Results</b>		
<b>Channel Separation</b>	<b>Channel</b>	<b>Measurement Result (dBm)</b>
		<b>For 10dBm(0.010W)</b>
12.5 KHz	462.5625MHz	9.50



## 9. MODULATION CHARACTERISTICS

### 9.1 PROVISIONS APPLICABLE

According to [FCC Part 95.575, Part 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.

Each FRS transmitter type must be designed such that the peak frequency deviation does not exceed 2.5 kHz, and the highest audio frequency contributing substantially to modulation must not exceed 3.125 kHz.

Part 2.1047(a) A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted. For equipment required to have an audio low-pass filter, a curve showing the frequency response of the filter, or of all circuitry installed between the modulation limiter and the modulated stage shall be submitted.

### 9.2 MEASUREMENT METHOD

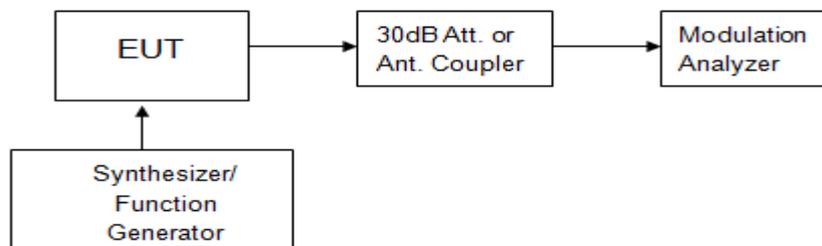
#### 9.2.1 Modulation Limit

- (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.

#### 9.2.2 Audio Frequency Response

Personal Radio Service stations that transmit voice emissions may also transmit audible or subaudible tones or other signals for the purpose of selective calling and/or receiver squelch activation. These tones and signals are ancillary to voice communications and are considered to be included within the voice emission types, e.g., A3E, F3E, and G3E.

- (a) Tones that are audible (having a frequency higher than 300 Hertz), must last no longer than 15 seconds at one time.
  - (b) Tones that are subaudible (having a frequency of 300 Hertz or less), may be transmitted continuously during a communication session.
- (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 =  $20\log_{10}(\text{Deviation of test frequency}/\text{Deviation of 1 KHz reference})$ .



**Figure 1: Modulation characteristic measurement configuration**



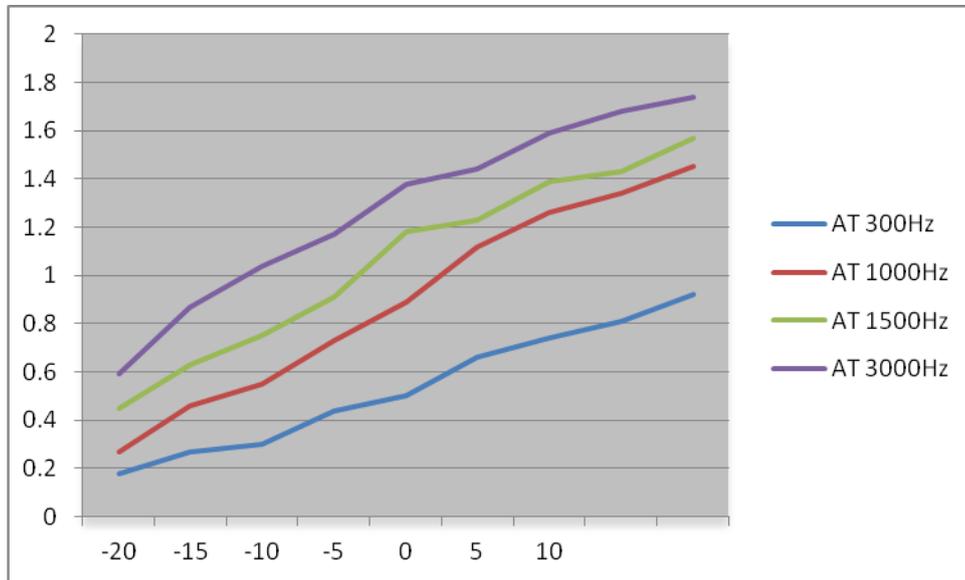
### 9.3 MEASUREMENT RESULT

TEST CHANNEL: 1

(A). MODULATION LIMIT:

#### 462.5625MHz @ 12.5 KHz Channel Separations

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	0.18	0.27	0.45	0.59
-15	0.27	0.46	0.63	0.87
-10	0.3	0.55	0.75	1.04
-5	0.44	0.73	0.91	1.17
0	0.5	0.89	1.18	1.38
+5	0.66	1.12	1.23	1.44
+10	0.74	1.26	1.39	1.59
+15	0.81	1.34	1.43	1.68
+20	0.92	1.45	1.57	1.74



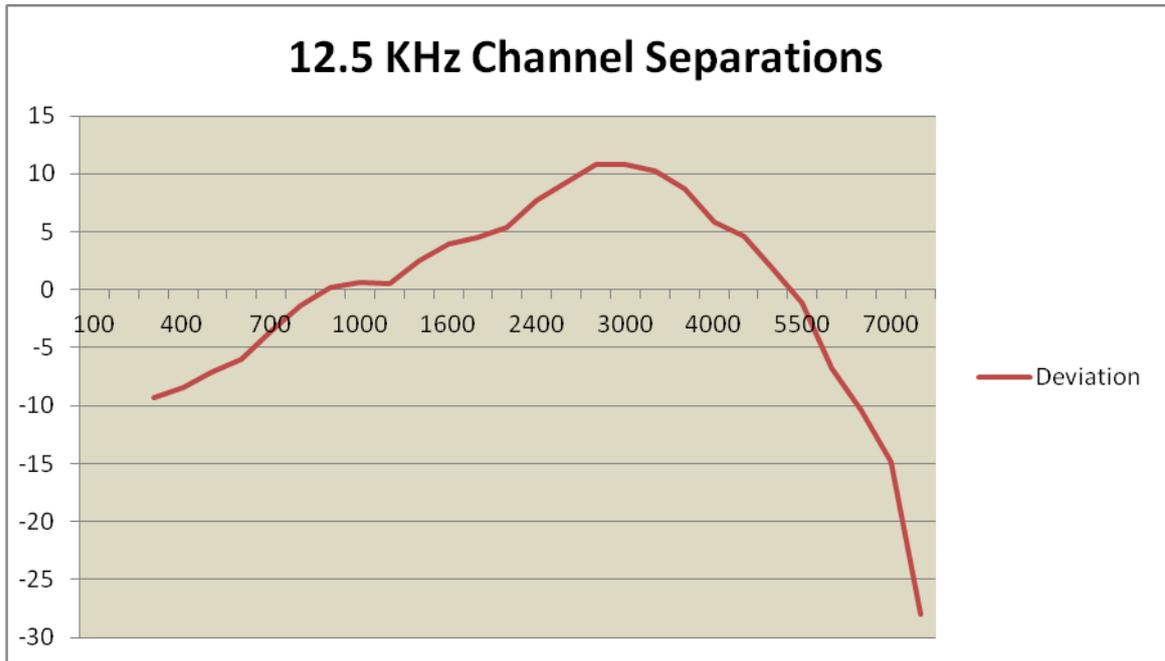
Note: All the modes had been tested, but only the worst data recorded in the report.

**(B). AUDIO FREQUENCY RESPONSE:****462.5625MHz @ 12.5 KHz Channel Separations**

<b>Frequency (Hz)</b>	<b>Deviation (KHz)</b>	<b>Audio Frequency Response(dB)</b>
100	--	--
200	--	--
300	0.17	-9.37
400	0.19	-8.40
500	0.22	-7.13
600	0.25	-6.02
700	0.33	-3.61
800	0.43	-1.31
900	0.51	0.17
1000	0.54	0.67
1200	0.53	0.51
1400	0.67	2.54
1600	0.79	3.97
1800	0.84	4.51
2000	0.93	5.39
2400	1.21	7.68
2500	1.45	9.25
2800	1.74	10.83
3000	1.74	10.83
3200	1.63	10.26
3600	1.37	8.76
4000	0.98	5.85
4500	0.85	4.61
5000	0.62	1.87
5500	0.44	-1.11
6000	0.23	-6.74
6500	0.15	-10.46
7000	0.09	-14.89
7500	0.02	-27.96
9000	--	--
10000	--	--
14000	--	--
18000	--	--
20000	--	--
30000	--	--



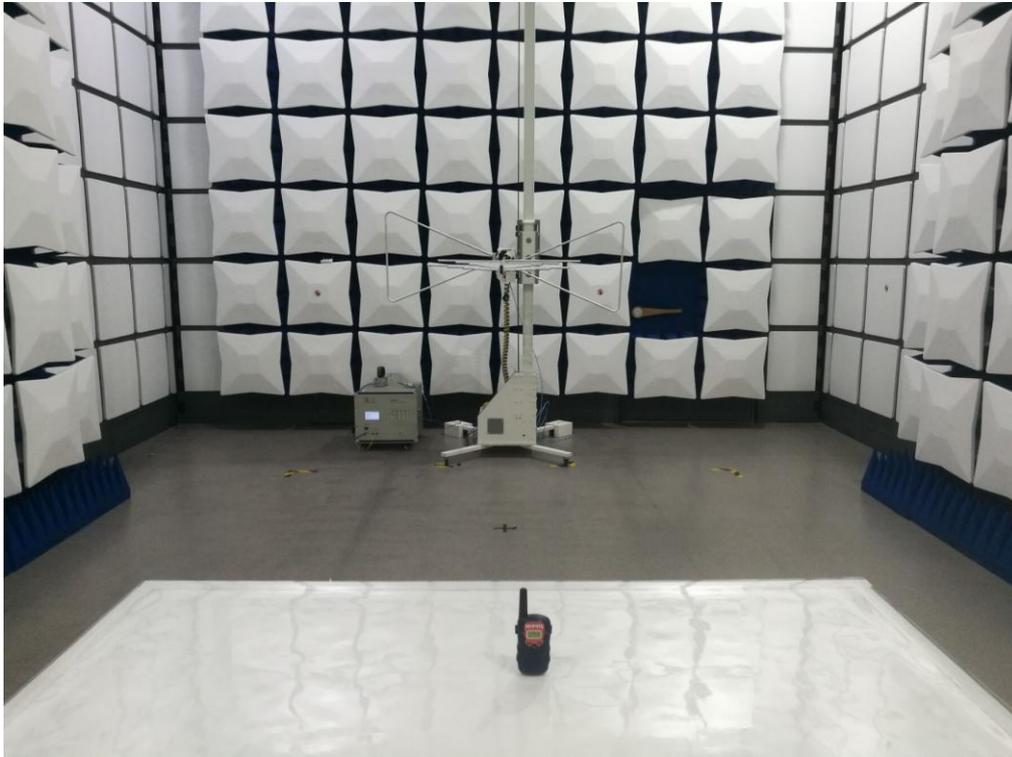
Frequency Response Result



Note: All the modes had been tested, but only the worst data recorded in the report.



**APPENDIX I: PHOTOGRAPHS OF SETUP**  
**RADIATED EMISSION TEST SETUP**



**RADIATED EMISSION ABOVE 1G TEST SETUP**





**APPENDIX II: EXTERNAL VIEW 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

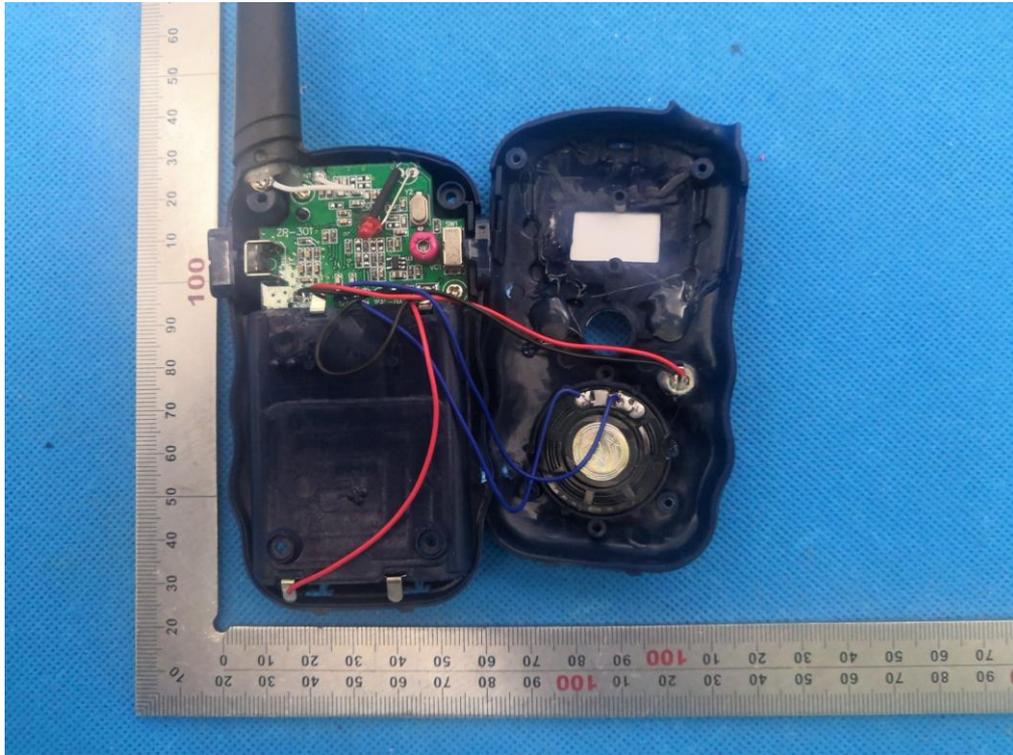


OPEN VIEW-1 OF EUT

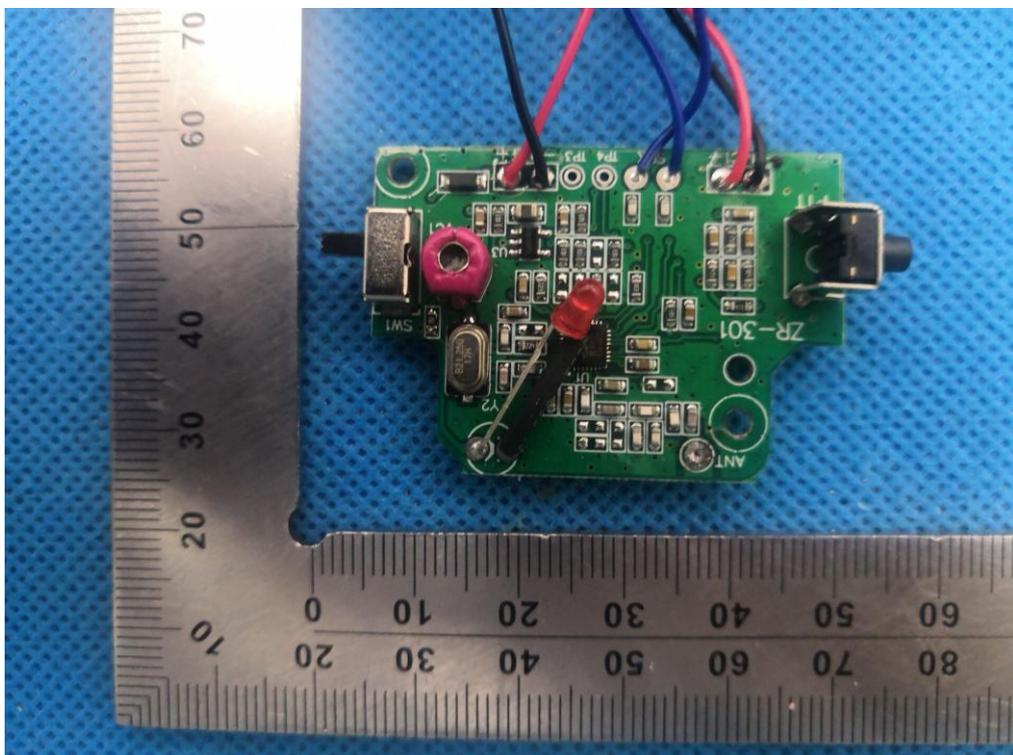




OPEN VIEW-2 OF EUT

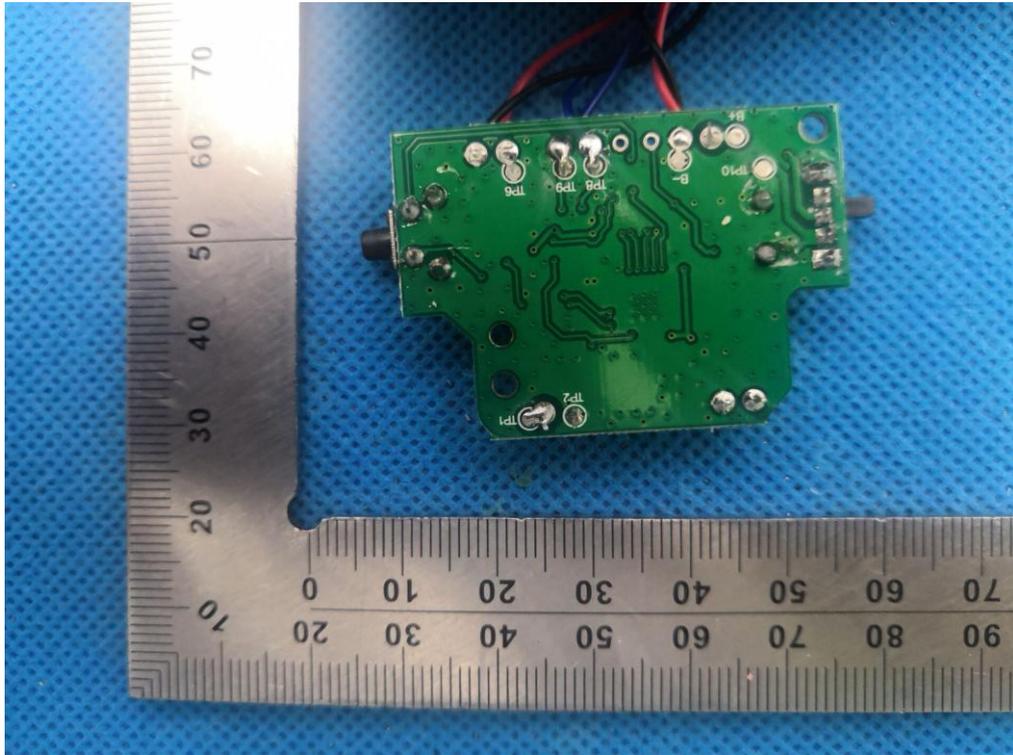


INTERNAL VIEW-1 OF EUT

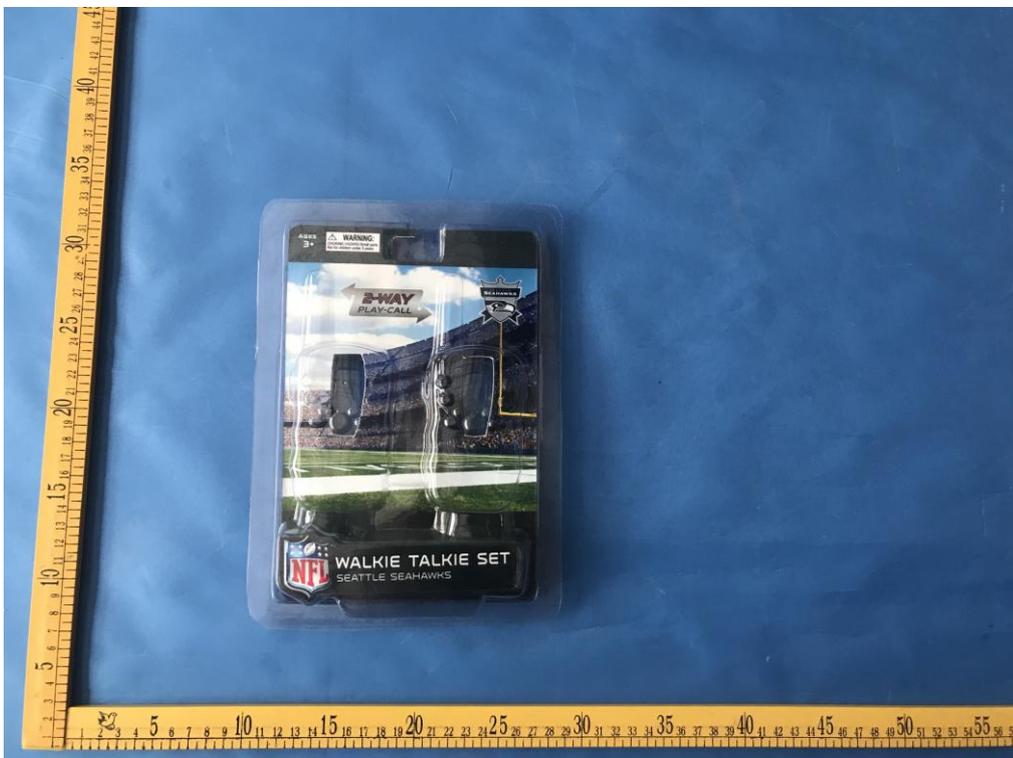




INTERNAL VIEW-2 OF EUT



SAMPLE PACKING BOX



---END OF REPORT---