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# FCC Part 95 Rules Test Report

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Report No.:AGC09350200901FE10

**FCC ID** : 2AMS2-WT08

**PRODUCT DESIGNATION** : Walkie Talkie

**BRAND NAME** : N/A

**MODEL NAME** : WT08, WT09, WT10, WT12, WT13, WT15, WT16, WT18, WT19, WT20, WT30

**APPLICANT** : Global WT Industrial Co., Ltd.

**DATE OF ISSUE** : Oct. 14, 2020

**STANDARD(S)** : FCC Part 95 Rules

**REPORT VERSION** : V 1.0

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



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## Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 14, 2020	Valid	Initial release

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## VERIFICATION OF COMPLIANCE

<b>Applicant</b>	Global WT Industrial Co., Ltd.
<b>Address</b>	Room 201, Block A, No.1, Qianwan Road 1 Qian Hai Shen Port Cooperative District, Shenzhen, China
<b>manufacturer</b>	Shenzhen Yomband Electronic Co., Ltd.
<b>Address</b>	Building A of Jinfushun, Industrial Park, Lezhujiao, Xixiang, Baoan District, Shenzhen, China
<b>Product Designation:</b>	Walkie Talkie
<b>Brand Name:</b>	N/A
<b>Test Model</b>	WT08
<b>Serial Model</b>	WT09, WT10, WT12, WT13, WT15, WT16, WT18, WT19, WT20, WT30
<b>Difference Description</b>	only color different.
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Date of Test:</b>	Sep. 21, 2020~Oct. 14, 2020
<b>Test Result</b>	PASS
<b>Report Template</b>	AGCRT-US-PTT/RF

## WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA 603. The sample tested as described in this report is in compliance with the FCC Rules Part 95 requirements. The test results of this report relate only to the tested sample identified in this report.

Prepared By



Donjon Huang  
(Project Engineer)

Oct. 14, 2020

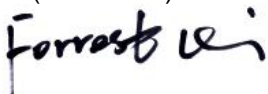
Reviewed By



Max Zhang  
(Reviewer)

Oct. 14, 2020

Approved By



Forrest Lei  
Authorized Officer

Oct. 14, 2020

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## 1. GENERAL INFORMATION

### 1.1 PRODUCT DESCRIPTION

The EUT is a **Walkie Talkie** 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:

Communication Type	Voice/Tone only
Product Designation	Walkie Talkie
Test Model	WT08
Hardware Version	V1.2
Software Version	V1.0
Modulation	FM
Channel Separation	12.5KHz
Emission Type	11K0F3E
Emission Bandwidth	10.42KHz
Maximum Transmitter Power	29.95dBm
Rated Output power	1W/0.5W (It was fixed by the manufacturer, any individual can't arbitrarily change it.)
Antenna Designation	Inseparable
Antenna Gain	1.5dBi
Power Supply	DC 4.8V( NiMH 4 AAA battery 1.2V x 4 =4.8V)
Limiting Voltage	DC 4.08V-5.52V
Operation Frequency Range and Channel	FRS: 462.5625MHz -462.7125MHz(1W) 467.5625MHz-467.7125MHz(0.5W) 462.5500MHz-462.7250MHz(1W) Test Channel :4, 11 and 19 channel
Frequency Tolerance	1.096ppm

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**Channel List:**

Operation Frequency Each of Channel					
FRS		FRS		FRS	
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	462.5625 MHz	8	467.5625 MHz	15	462.5500 MHz
2	462.5875 MHz	9	467.5875 MHz	16	462.5750 MHz
3	462.6125 MHz	10	467.6125 MHz	17	462.6000 MHz
4	462.6375 MHz	11	467.6375 MHz	18	462.6250 MHz
5	462.6625 MHz	12	467.6625 MHz	19	462.6500 MHz
6	462.6875 MHz	13	467.6875 MHz	20	462.6750 MHz
7	462.7125 MHz	14	467.7125 MHz	21	462.7000 MHz
				22	462.7250 MHz

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

This submittal(s) (test report) is intended for FCC ID: 2AMS2-WT08, 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>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

## 1.5 SPECIAL ACCESSORIES

Not available for this EUT intended for grant.

## 1.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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## 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.

### 2.3 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	WT08	FCC ID: 2AMS2-WT08	EUT
2	Adapter	AK12WG-0900100UW	Input: 100-240V 50/60Hz, 0.3A Output: DC 9V 1A	Accessories
3	Back clip	N/A	N/A	Accessories

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## 2.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission,  $U_c = \pm 3.2$  dB
- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 3.9$  dB
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.8$  dB
- Uncertainty of total RF power, conducted,  $U_c = \pm 0.8$  dB
- Uncertainty of spurious emissions, conducted,  $U_c = \pm 2.7$  dB
- Uncertainty of Occupied Channel Bandwidth:  $U_c = \pm 2$  %
- Uncertainty of Frequency:  $U_c = \pm 2$  %
- Uncertainty of FM deviation:  $U_c = \pm 2$  %
- Uncertainty of Audio Level:  $U_c = \pm 0.98$  dB
- Uncertainty of Modulation Limiting:  $U_c = 0.42$  %
- Uncertainty of Transient Frequency Behavior:  $U_c = 6.8$  %

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### 3. SUMMARY OF TEST RESULTS

FCC 47 CFR Part 95 Test Cases			
Test Item	Test Requirement	Test Method	Result
Maximum Transmitter Power	FCC 47 CFR Part 95.567 FCC 47 CFR Part 2.1046(a)	ANSI/TIA-603-E-2016	PASS
Modulation Limit	FCC 47 CFR Part 95.575 FCC 47 CFR Part 2.1047(a)(b)	ANSI/TIA-603-E-2016	PASS
Audio Frequency Response	FCC 47 CFR Part 95.575 FCC 47 CFR Part 2.1047(a)	ANSI/TIA-603-E-2016	PASS
Emission Bandwidth	FCC 47 CFR Part 95.573 FCC 47 CFR Part 2.1049	ANSI/TIA-603-E-2016	PASS
Emission Mask	FCC 47 CFR Part 95.579	ANSI/TIA-603-E-2016	PASS
Transmitter Radiated Spurious Emission	FCC 47 CFR Part 95.579	ANSI/TIA-603-E-2016	PASS
Spurious Emission On Antenna Port	FCC 47 CFR Part 95.579	ANSI/TIA-603-E-2016	N/A Note 1, 2
Frequency Stability	FCC 47 CFR Part 95.565 FCC 47 CFR Part 2.1055 (a)(1)	ANSI/TIA-603-E-2016	PASS
<b>Note:</b> 1) N/A: In this whole report not application. 2) The EUT is Integral Antenna.			

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# LIST OF EQUIPMENTS USED

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 09, 2020	Jun. 08, 2021
EXA Signal Analyzer	KEYSIGHT	N9020A	MY53300860	July 15, 2020	July 14, 2021
Horn antenna	SCHWARZBECK	BBHA9170	768	Oct. 09, 2019	Oct. 08, 2021
preamplifier	ETS	3117PA	00225134	Sep. 05, 2018	Sep. 04, 2020
preamplifier	ETS	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2019	May. 16, 2021
Broadband Preamplifier	SCHWARZBECK	BBV9718	9718-205	Jun. 09, 2020	Jun. 08, 2021
Double-Ridged Waveguide Horn	ETS	3117	00154520	Oct. 26, 2019	Oct. 25, 2021
SIGNAL	AGILENT	E4421B	MY43351603	Jun. 09, 2020	Jun. 08, 2021
ANTENNA	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 09, 2019	Jan. 08, 2021
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.20, 2019	Sep.19, 2021
Modulation Domain Analyzer	HP	53310A	3121A02467	Aug. 26, 2020	Aug. 25, 2021
Small environmental tester	ESPEC	SH-242	93008290	Sep. 05, 2018	Sep. 04, 2020
Small environmental tester	ESPEC	SH-242	93008290	Sep. 03, 2020	Sep. 02, 2022
RF Communication Test Set	HP	8920B	US35010161	Sep. 05, 2018	Sep. 04, 2020
RF Communication Test Set	HP	8920B	US35010161	Sep. 03, 2020	Sep. 02, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 11, 2020	Jun. 10, 2021
Attenuator	Schaffner	58-30-33	ML030	Oct. 28, 2019	Oct. 27, 2020
RF Cable	R&S	1#	--	Each time	N/A
Fliter-UHF	Microwave	N25155M2	498705	May. 11, 2020	May. 10, 2021

Note: 8920B can generate audio modulation frequency.

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#### 4. DESCRIPTION OF TEST MODES

##### RF TEST MODES

The EUT (**Walkie Talkie**) 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:1.** Only the result of the worst case was recorded in the report.

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## 5. FREQUENCY TOLERANCE

### 5.1 PROVISIONS APPLICABLE

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

FCC Part 95.565,

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 4.80V.
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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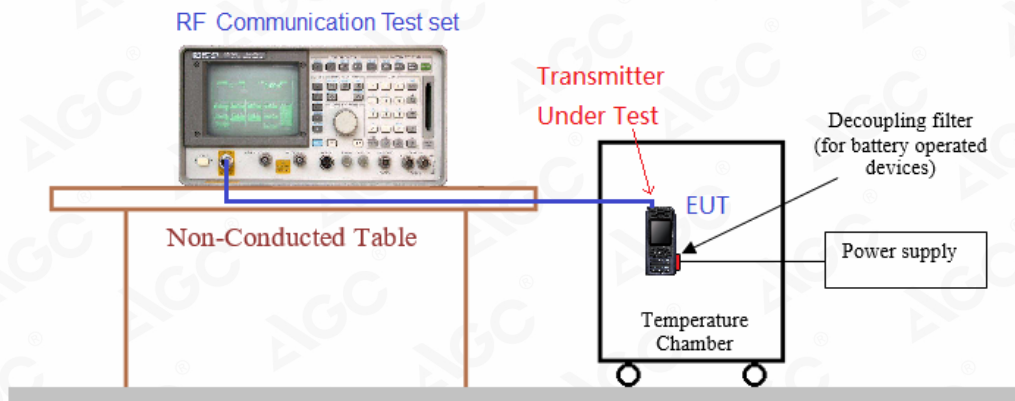
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### 5.3 TEST SETUP BLOCK DIAGRAM



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### 5.3 TEST RESULT

#### (1) Frequency stability versus input voltage (Supply nominal voltage is 4.80V)

7) Frequency stability versus input voltage (Supply nominal voltage is 4.80V)					
Environment Temperature(°C)	Power	Reference Frequency			Limit:
	(V)	462.6375MHz	467.6375MHz	462.6500 MHz	ppm
50	DC 4.80	0.561	0.653	0.951	±2.5for FRS
40	DC 4.80	1.096	1.052	0.779	
30	DC 4.80	0.526	1.015	0.541	
20	DC 4.80	0.823	0.882	1.013	
10	DC 4.80	0.732	0.989	0.537	
0	DC 4.80	1.033	0.578	1.094	
-10	DC 4.80	0.740	1.051	0.539	
-20	DC 4.80	0.681	0.787	0.783	
-30	DC 4.80	0.516	0.547	0.680	
Result	Pass				

#### (2) Frequency stability versus input voltage (Battery Fully Charged voltage is 5.52V)

12) Frequency Stability: Voltage Input: Voltage (Battery Fully Charged) Voltage is 5.52V					
Environment Temperature(°C)	Power	Reference Frequency			Limit:
	(V)	462.6375MHz	467.6375MHz	462.6500 MHz	ppm
50	DC 5.52	0.538	0.790	0.854	±2.5for FRS
40	DC 5.52	0.627	0.962	0.949	
30	DC 5.52	0.658	0.801	0.846	
20	DC 5.52	0.639	0.861	1.080	
10	DC 5.52	1.028	0.907	0.758	
0	DC 5.52	1.050	0.823	0.757	
-10	DC 5.52	1.053	0.552	0.503	
-20	DC 5.52	0.963	0.785	0.965	
-30	DC 5.52	0.621	0.684	0.994	
Result	Pass				

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### (3) Frequency stability versus input voltage (Battery limiting voltage is 3.83)

Environment Temperature(℃)	Power	Reference Frequency			Limit:
	(V)	462.6375MHz	467.6375MHz	462.6500 MHz	ppm
50	DC 4.08	0.890	0.722	0.695	±2.5for FRS
40	DC 4.08	0.907	0.529	0.716	
30	DC 4.08	0.695	0.534	1.056	
20	DC 4.08	0.689	0.991	1.089	
10	DC 4.08	1.033	0.797	0.771	
0	DC 4.08	0.753	0.585	0.551	
-10	DC 4.08	0.823	0.621	0.799	
-20	DC 4.08	1.024	0.723	0.908	
-30	DC 4.08	0.569	0.702	0.947	
Result	Pass				

**Note:** 1. Battery terminal voltage is declared and specified by the manufacturer.  
2. All test values are in “ppm”

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## 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.

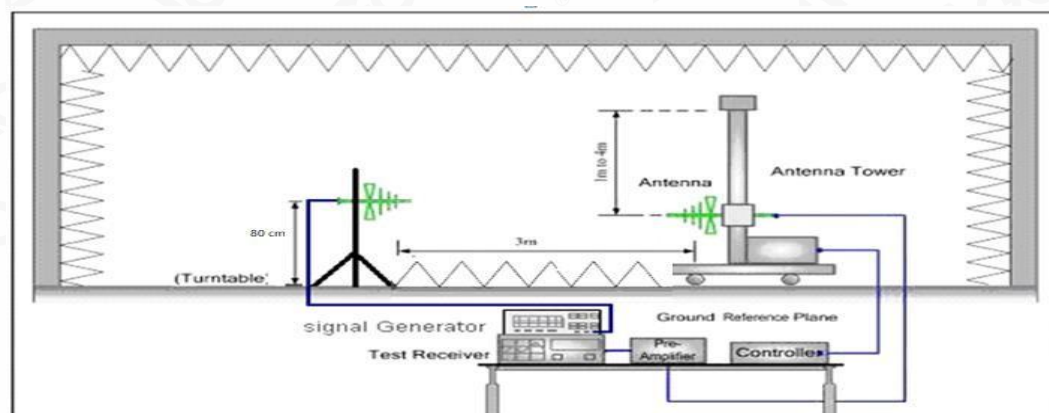
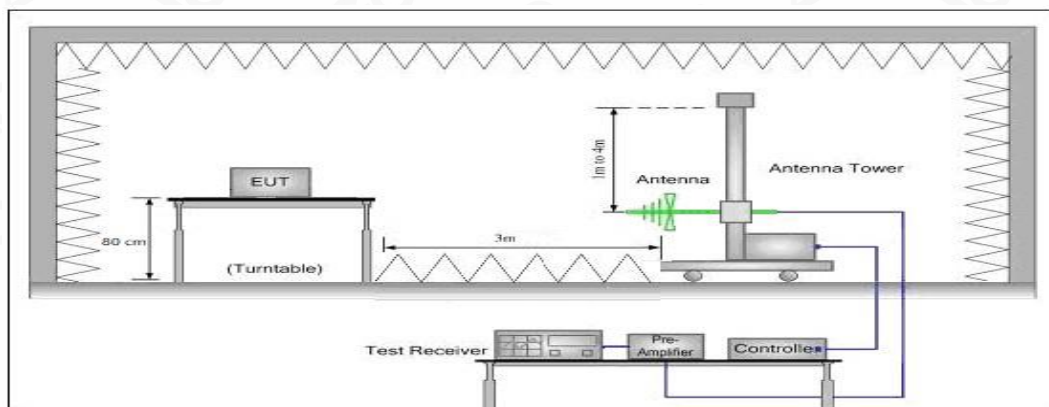
### 6.2 MEASUREMENT PROCEDURE

- 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=300Hz.VBW= 1KHz, Span =50 KHz.
- 3). Set SPA Max hold. Mark peak, -26 dB.

### 6.3 TEST SETUP BLOCK DIAGRAM

Radiation method:

#### Radiated Below 1GHz



#### Radiated Above 1 GHz

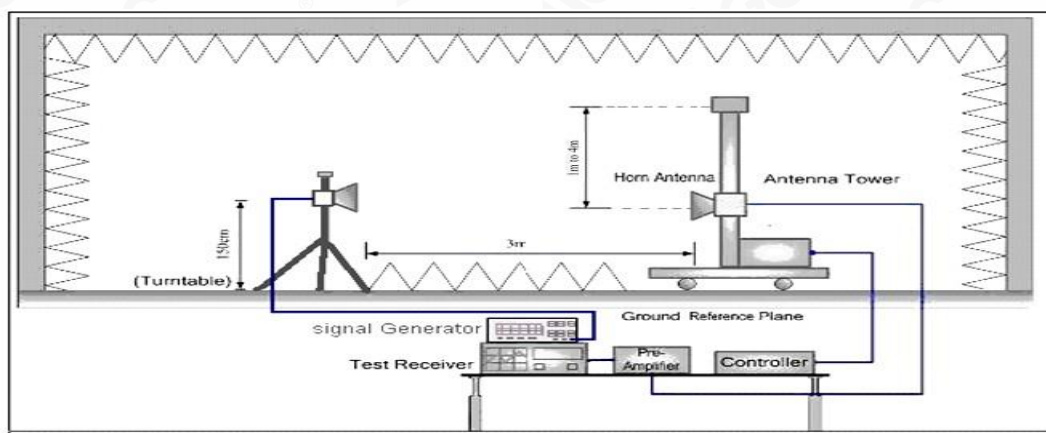
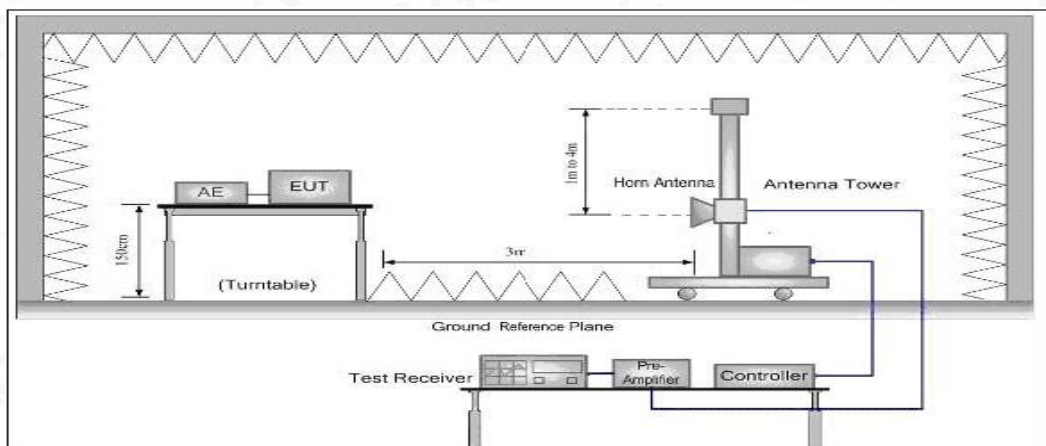
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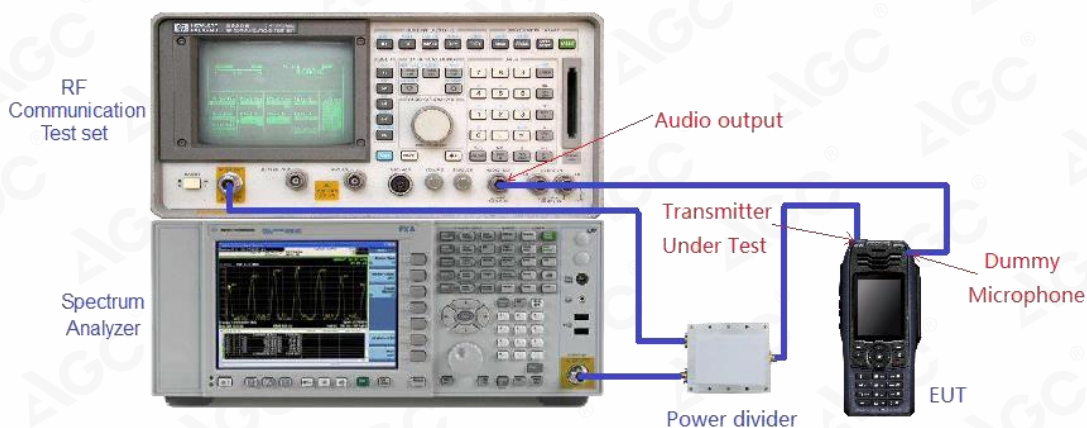
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### Conduction method:



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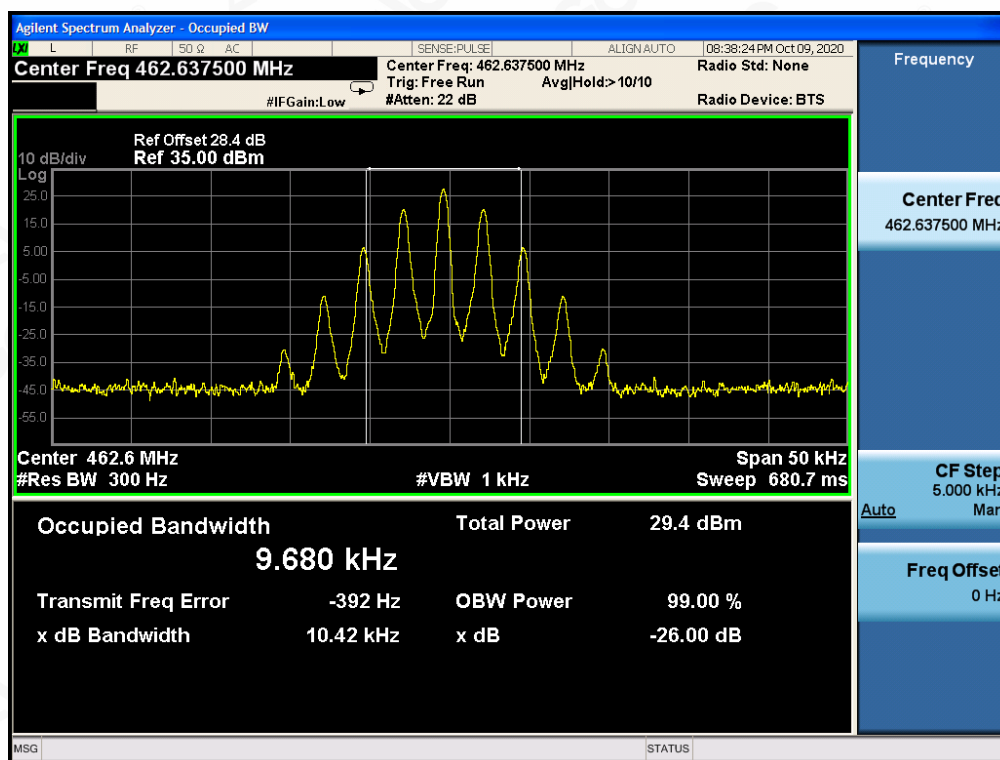
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## 6.4 MEASUREMENT RESULT

Emission Bandwidth Measurement Result				
Operating Frequency	12.5 KHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
462.6375MHz	9.680 KHz	10.42 KHz	12.5 KHz	Pass
462.6500MHz	9.668 KHz	10.41 KHz	12.5 KHz	Pass

### Occupied bandwidth of 462.6375MHz-1W

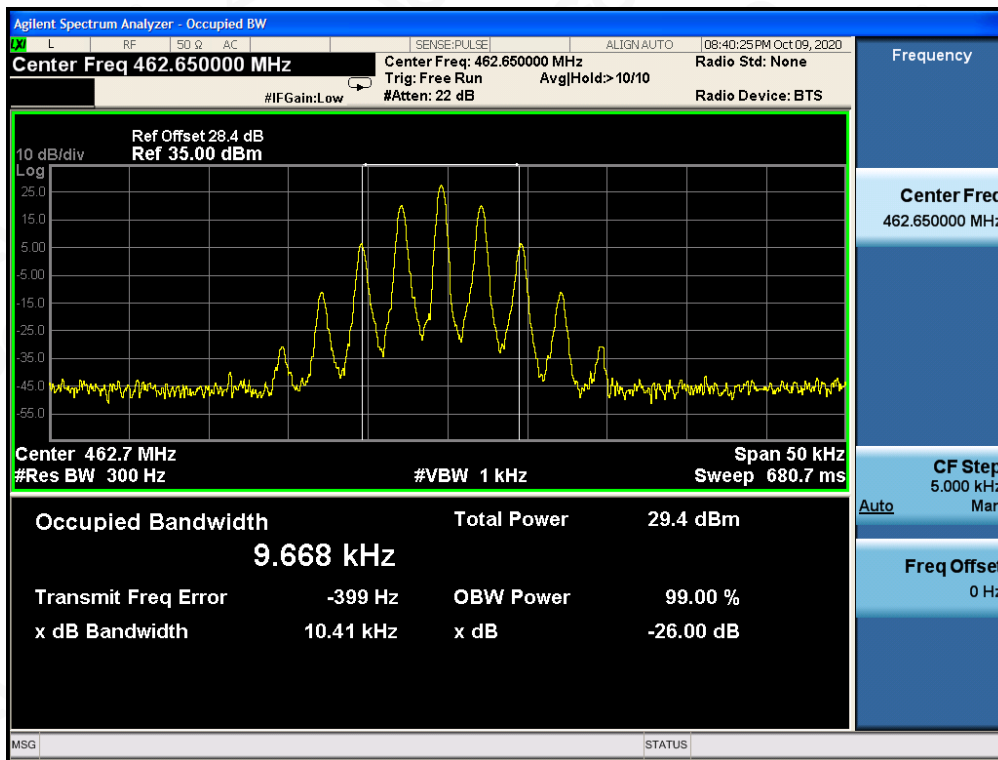


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### Occupied bandwidth of 462.6500MHz-1W



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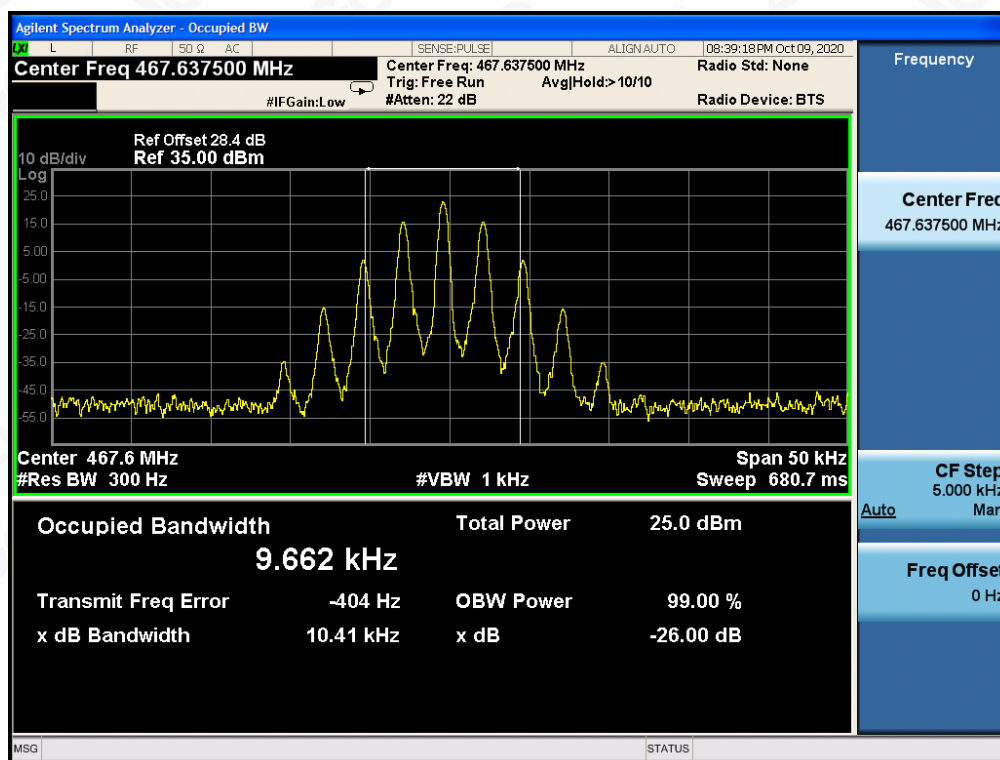
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Emission Bandwidth Measurement Result				
Operating Frequency	12.5 KHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
467.6375	9.662 KHz	10.41 KHz	12.5 KHz	Pass

### Occupied bandwidth of 467.6375MHz-0.5W



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## 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.

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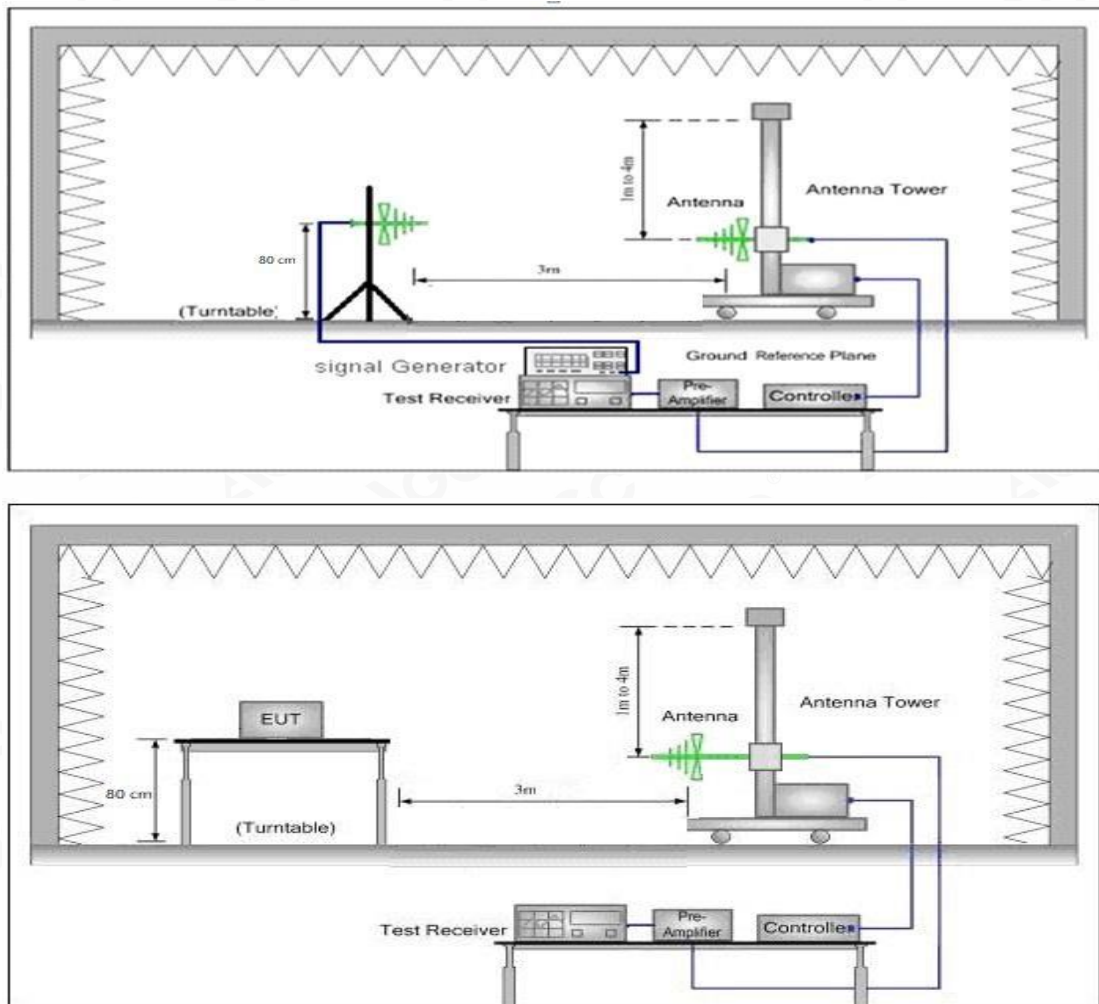
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### 7.3 TEST SETUP BLOCK DIAGRAM

#### SUBSTITUTION METHOD: (Radiated Emissions)

##### Radiated Below 1GHz



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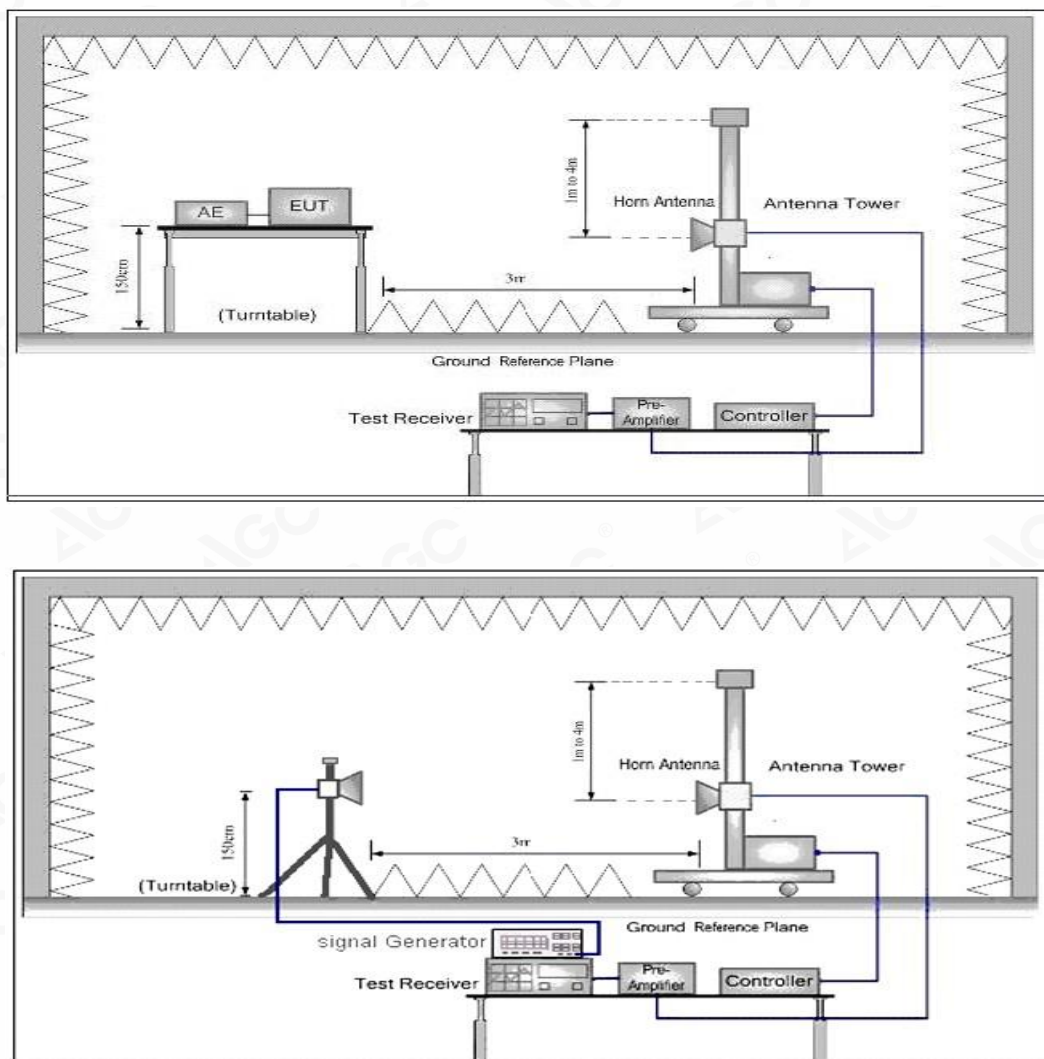
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### Radiated Above 1 GHz



### 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  $43+10 \log(P) = 43+10 \log(0.5) = 39.99(\text{dBc})$   $26.99-39.99 = -13\text{dBm}$

At least  $43+10 \log(P) = 43+10 \log(1) = 43.00(\text{dBc})$   $30.00-43.00 = -13\text{dBm}$

**Note:** The margin of the spurious emission results below 30MHz is less than 20dB. The default meets the requirements and only reflects the worst mode.

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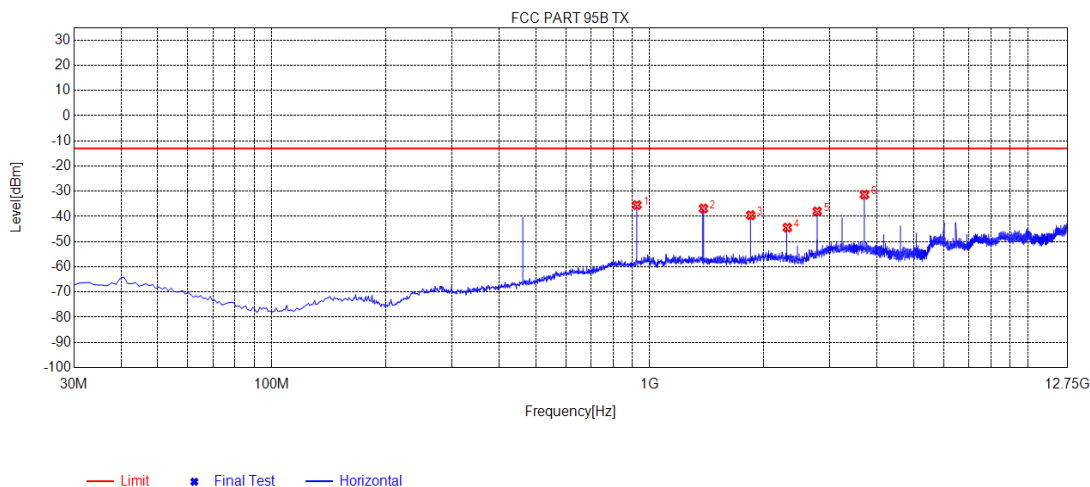
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### Measurement Result for 12.5 KHz Channel Separation @ 462.6375MHz-1W-Horizontal



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	925.3100	-78.98	-35.49	-13.00	22.49	43.49	200	Horizontal
2	1387.7888	-33.43	-36.88	-13.00	23.88	-3.45	134	Horizontal
3	1850.7851	-38.93	-39.52	-13.00	26.52	-0.59	134	Horizontal
4	2313.7814	-43.73	-44.44	-13.00	31.44	-0.71	121	Horizontal
5	2775.6026	-39.17	-38.00	-13.00	25.00	1.17	359	Horizontal
6	3701.5952	-35.78	-31.37	-13.00	18.37	4.41	108	Horizontal

#### Note:

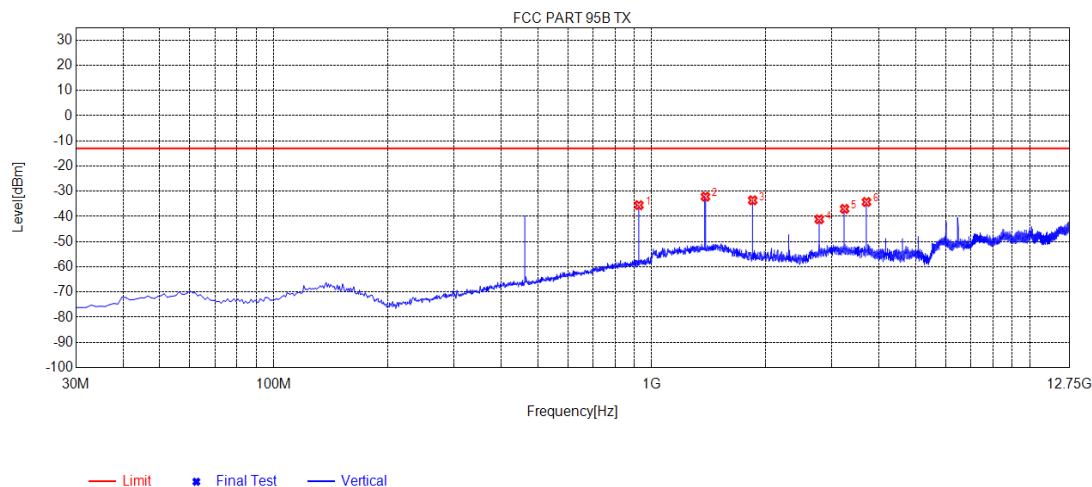
1. Factor=Antenna Factor + Cable loss. (Below 1GHz)
2. Factor=Antenna Factor+ Cable loss-Pre-amplifier.(Above 1 GHz)
3. Margin=Limit- Level

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## Measurement Result for 12.5 KHz Channel Separation @ 462.6375MHz-1W-Vertical



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	925.3100	-79.11	-35.54	-13.00	22.54	43.57	42	Vertical
2	1387.7888	-33.56	-32.15	-13.00	19.15	1.41	291	Vertical
3	1850.7851	-34.54	-33.61	-13.00	20.61	0.93	134	Vertical
4	2775.6026	-42.42	-41.14	-13.00	28.14	1.28	199	Vertical
5	3238.5989	-40.15	-37.01	-13.00	24.01	3.14	1	Vertical
6	3701.5952	-37.42	-34.27	-13.00	21.27	3.15	121	Vertical

## Note:

1. Factor=Antenna Factor + Cable loss. (Below 1GHz)
2. Factor=Antenna Factor+ Cable loss-Pre-amplifier.(Above 1 GHz)
3. Margin=Limit- Level

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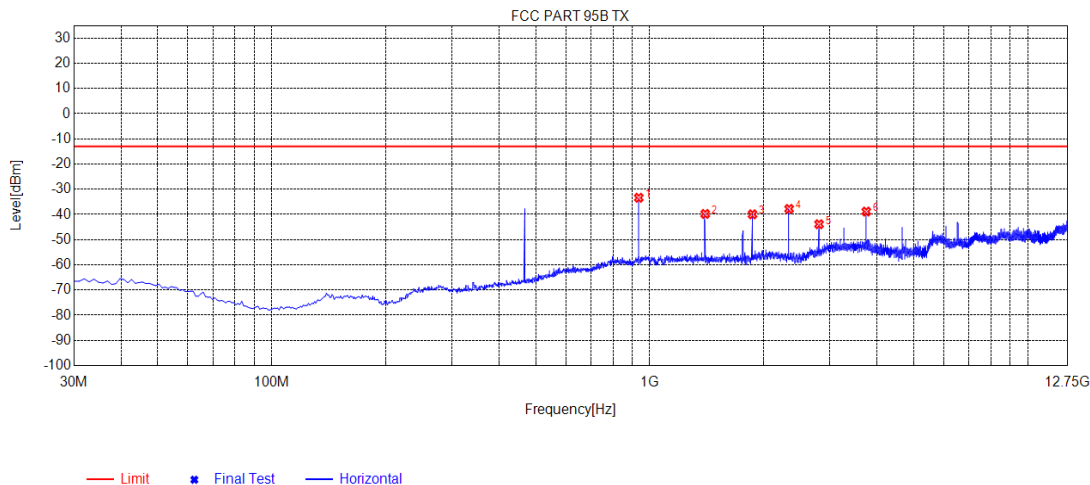
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### Measurement Result for 12.5 KHz Channel Separation @ 467.6375MHz-0.5W-Horizontal



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	935.9800	-77.11	-33.39	-13.00	20.39	43.72	133	Horizontal
2	1403.0653	-36.38	-39.79	-13.00	26.79	-3.41	359	Horizontal
3	1870.7621	-39.51	-39.95	-13.00	26.95	-0.44	159	Horizontal
4	2338.4588	-37.00	-37.80	-13.00	24.80	-0.80	133	Horizontal
5	2806.1556	-45.35	-43.89	-13.00	30.89	1.46	54	Horizontal
6	3741.5492	-43.32	-38.86	-13.00	25.86	4.46	54	Horizontal

#### Note:

1. Factor=Antenna Factor + Cable loss. (Below 1GHz)
2. Factor=Antenna Factor+ Cable loss-Pre-amplifier.(Above 1 GHz)
3. Margin=Limit- Level

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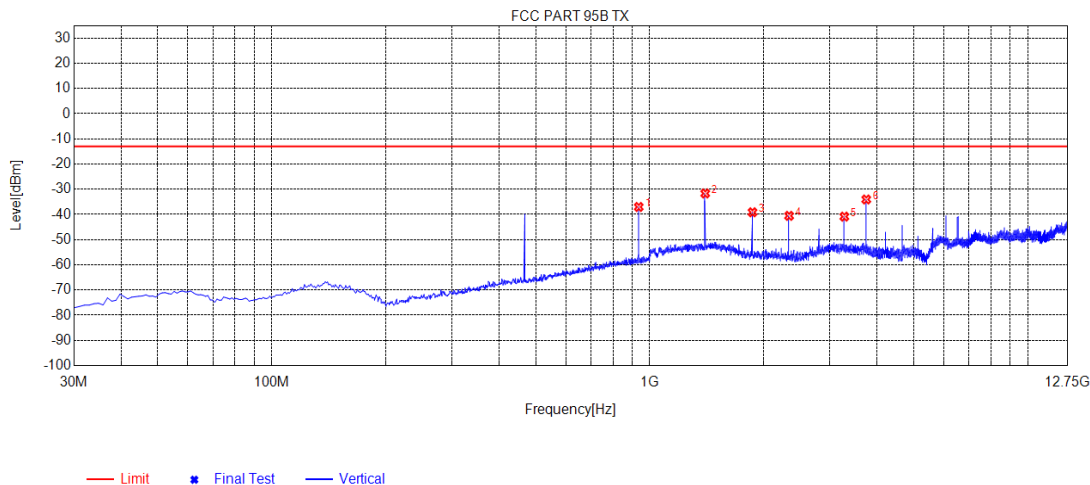
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### Measurement Result for 12.5 KHz Channel Separation @ 467.6375MHz-0.5W-Vertical



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	935.9800	-80.71	-37.03	-13.00	24.03	43.68	268	Vertical
2	1403.0653	-33.19	-31.67	-13.00	18.67	1.52	97	Vertical
3	1870.7621	-40.01	-39.15	-13.00	26.15	0.86	281	Vertical
4	2338.4588	-39.95	-40.56	-13.00	27.56	-0.61	307	Vertical
5	3273.8524	-44.00	-40.87	-13.00	27.87	3.13	19	Vertical
6	3741.5492	-37.23	-34.06	-13.00	21.06	3.17	19	Vertical

#### Note:

- Factor=Antenna Factor + Cable loss. (Below 1GHz)
- Factor=Antenna Factor+ Cable loss-Pre-amplifier.(Above 1 GHz)
- Margin=Limit- Level

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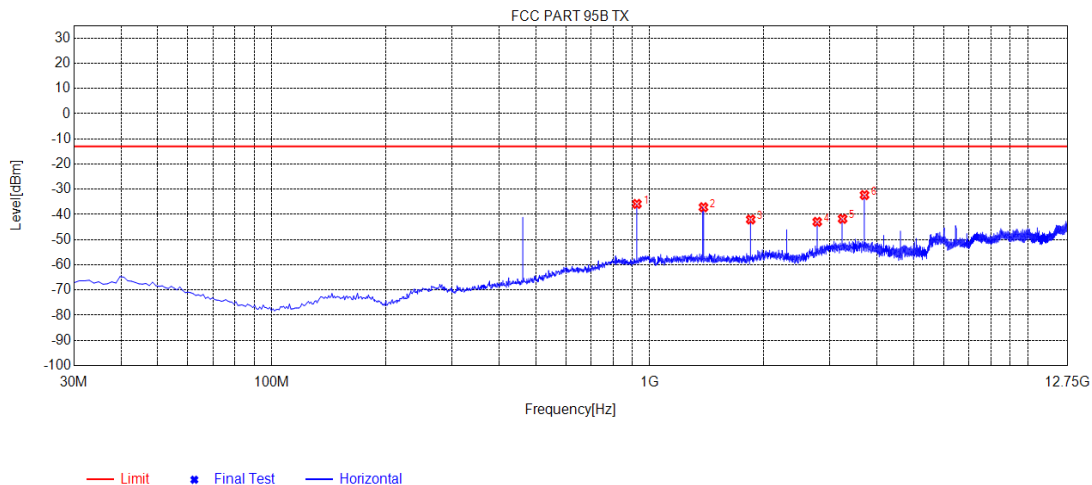
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### Measurement Result for 12.5 KHz Channel Separation @ 462.6500MHz-1W-Horizontal



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	925.3100	-79.31	-35.82	-13.00	22.82	43.49	197	Horizontal
2	1387.7888	-33.70	-37.15	-13.00	24.15	-3.45	131	Horizontal
3	1850.7851	-41.42	-42.01	-13.00	29.01	-0.59	104	Horizontal
4	2775.6026	-44.12	-42.95	-13.00	29.95	1.17	118	Horizontal
5	3238.5989	-45.45	-41.74	-13.00	28.74	3.71	118	Horizontal
6	3701.5952	-36.71	-32.30	-13.00	19.30	4.41	118	Horizontal

#### Note:

7. Factor=Antenna Factor + Cable loss. (Below 1GHz)

8. Factor=Antenna Factor+ Cable loss-Pre-amplifier.(Above 1 GHz)

9. Margin=Limit- Level

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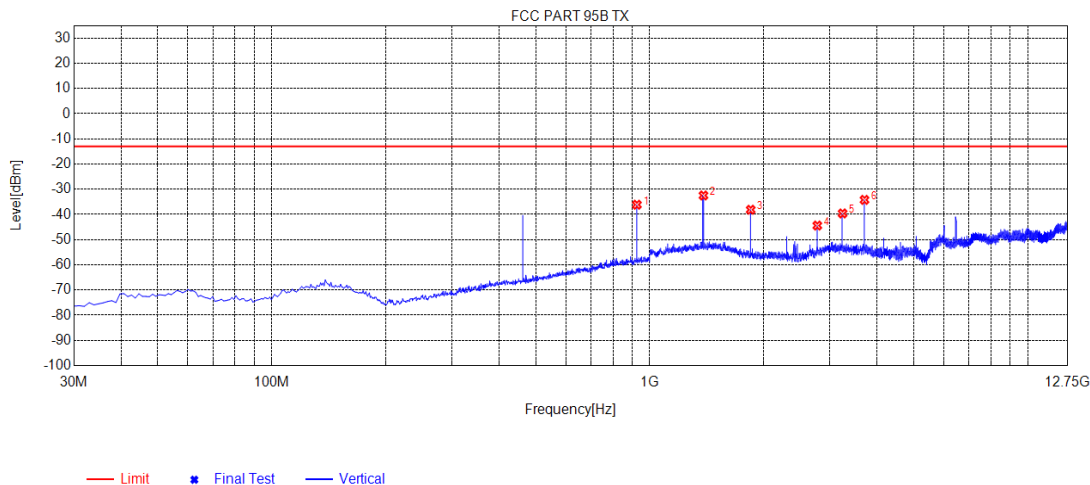
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### Measurement Result for 12.5 KHz Channel Separation @ 462.6500MHz-1W -Vertical



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	925.3100	-79.72	-36.15	-13.00	23.15	43.57	215	Vertical
2	1387.7888	-33.88	-32.47	-13.00	19.47	1.41	280	Vertical
3	1850.7851	-39.07	-38.14	-13.00	25.14	0.93	137	Vertical
4	2776.7777	-45.71	-44.42	-13.00	31.42	1.29	9	Vertical
5	3238.5989	-42.75	-39.61	-13.00	26.61	3.14	9	Vertical
6	3701.5952	-37.37	-34.22	-13.00	21.22	3.15	150	Vertical

#### Note:

1. Factor=Antenna Factor + Cable loss. (Below 1GHz)
2. Factor=Antenna Factor+ Cable loss-Pre-amplifier.(Above 1 GHz)
3. Margin=Limit- Level

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## 7.5 EMISSION MASK PLOT

Standard Applicable [FCC Part 95.579] FRS: Unwanted emissions shall be attenuated below the unmodulated carrier power in accordance with the following:

- (1) At least 25 dB (decibels) on any frequency removed from the center of the authorized bandwidth by more than 50 % up to and including 100% of the authorized bandwidth.
- (2) At least 35 dB on any frequency removed from the center of the authorized bandwidth by more than 100 % up to and including 250 % of the authorized bandwidth.
- (3) At least  $43 + 10 \log_{10}(T)$  dB on any frequency removed from the center of the authorized bandwidth by more than 250 %.

The detailed procedure employed for Emission Mask measurements are specified as following:

- The transmitter shall be modulated by a 2.5 kHz 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.

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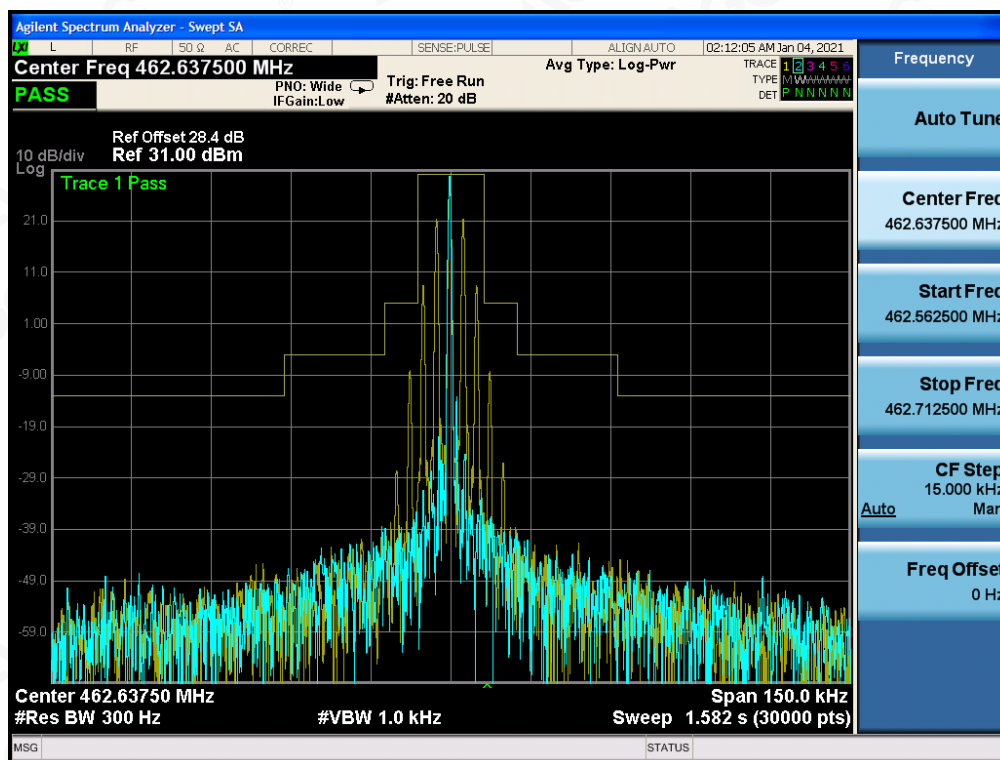
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### Channel 4:

### The Worst Emission Mask for channel 4 -1W



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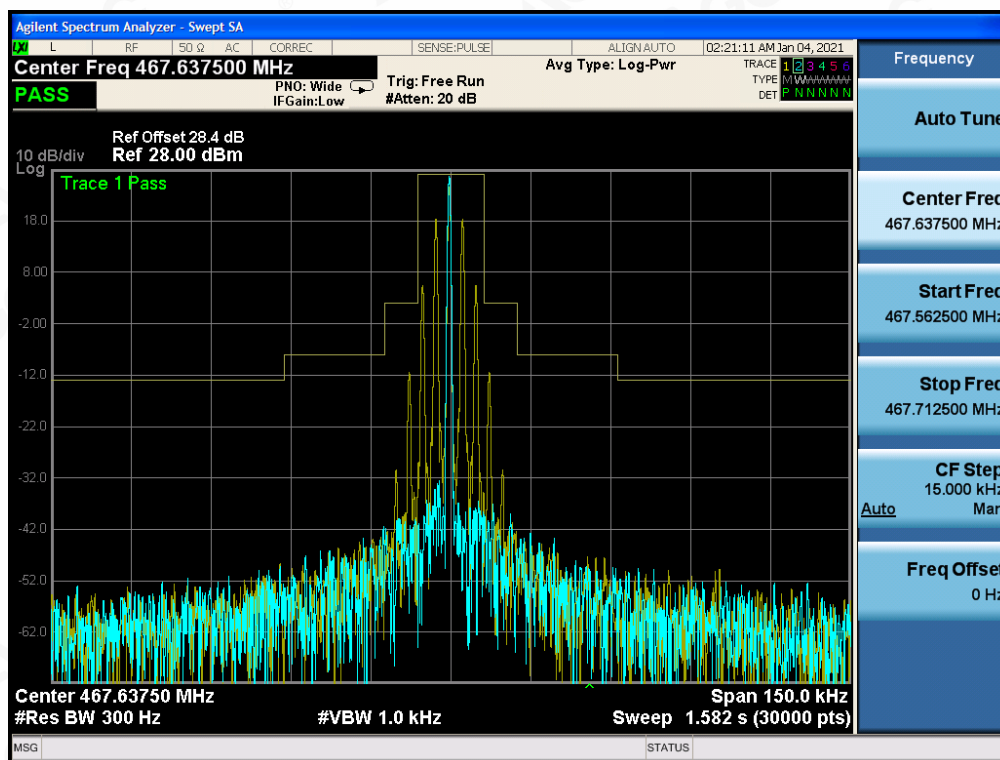
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## Channel 11:

## The Worst Emission Mask for channel 11 -0.5W



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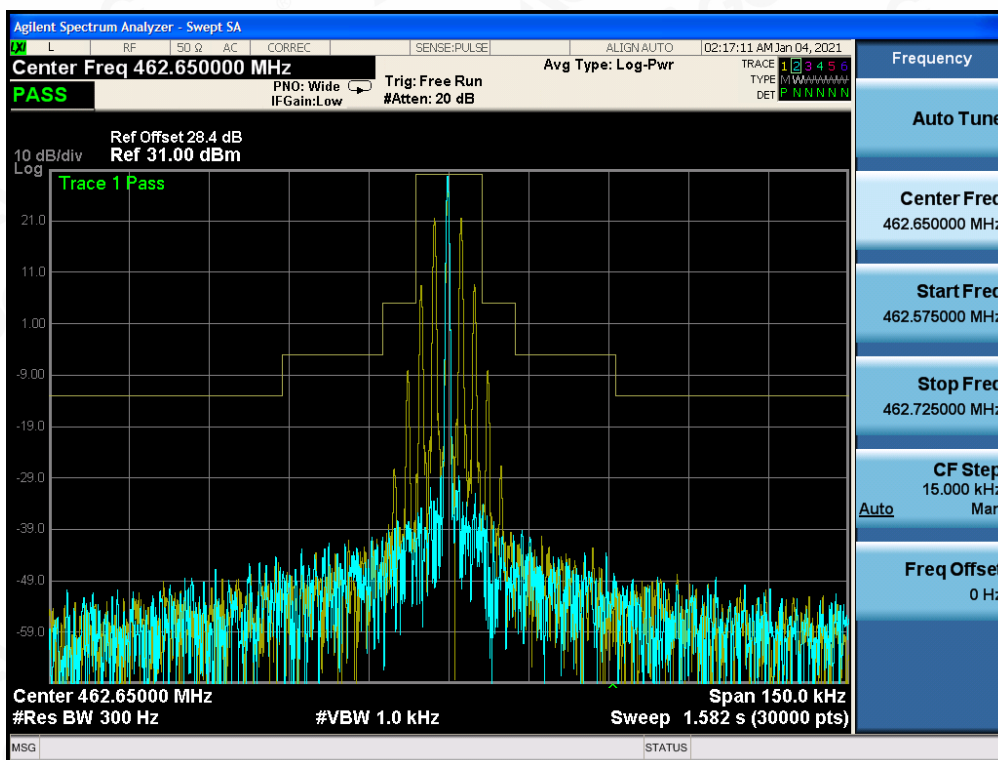
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## Channel 19:

## The Worst Emission Mask for channel 19-1W



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## 8. MAXIMUM TRANSMITTER POWER

### 8.1 PROVISIONS APPLICABLE

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

FCC Part 95.567 For FRS

Each 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.

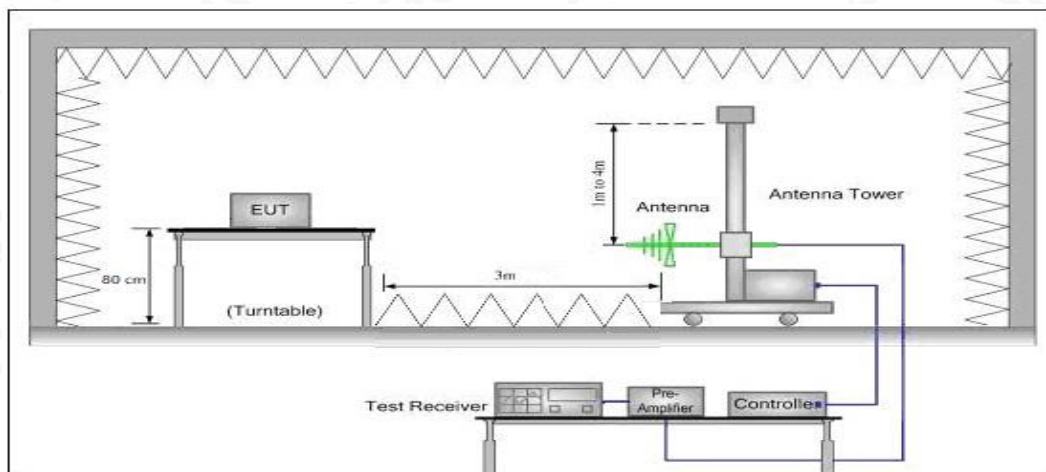
### 8.2 TEST PROCEDURE

- (1) The spectrum setting for Equivalent Isotropically Radiated Power (EIRP) is RBW = 100 kHz, VBW = 300 kHz. Detector Mode is RMS.
- (2) In the semi-anechoic chamber, setup as illustrated above the EUT placed on the 1.5m height of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The "Read Value" is the spectrum reading of maximum power value.
- (3) The substitution antenna is substituted for EUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain

### 8.3 TEST CONFIGURATION

#### Effective Radiated Power

#### Radiated Below 1GHz



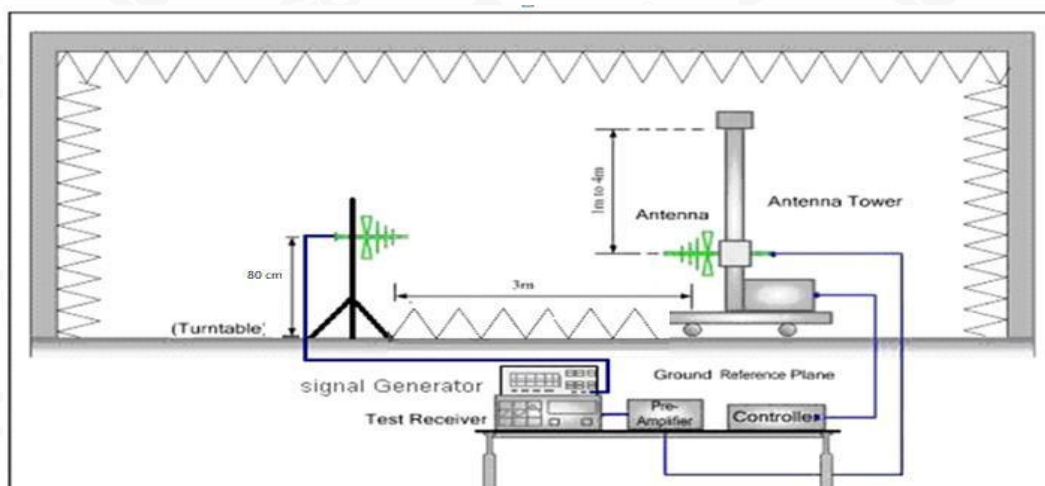
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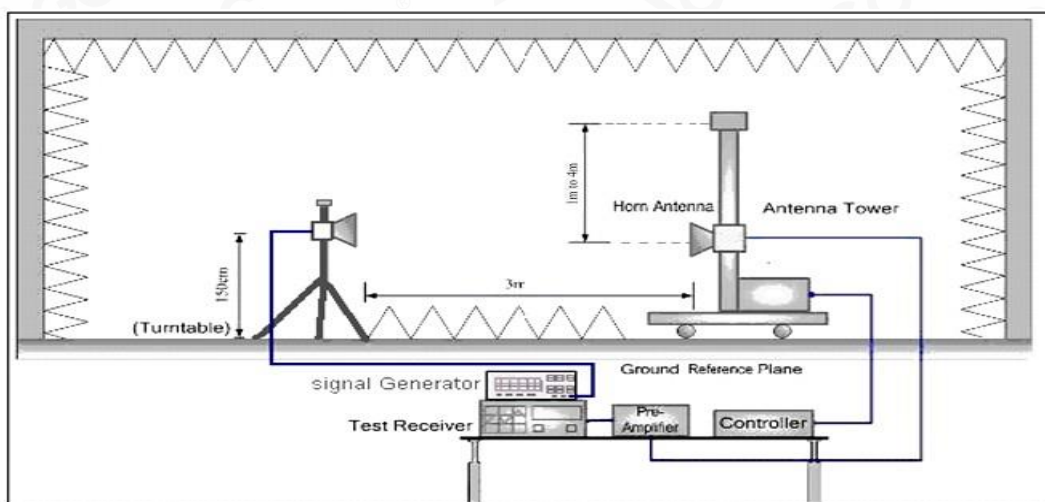
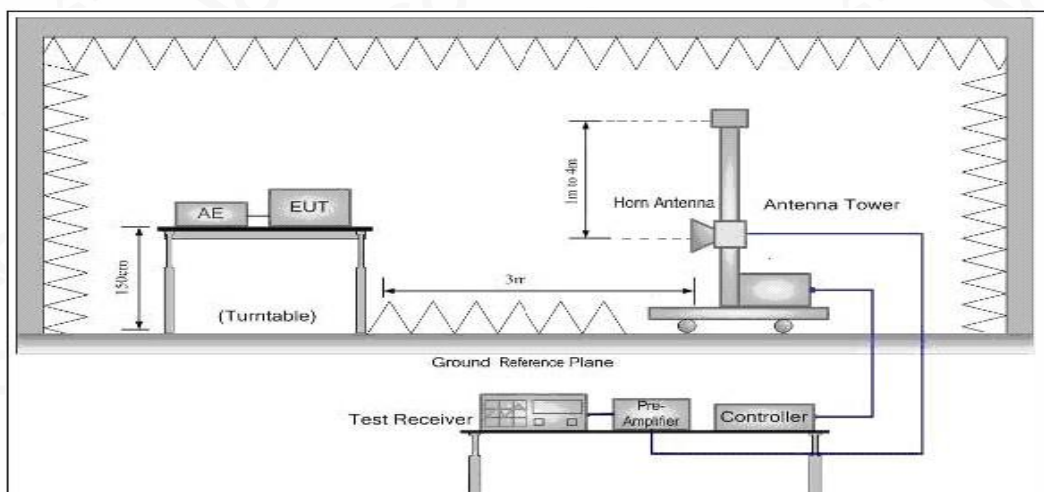
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**Radiated Above 1 GHz**



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## 8.4 TEST RESULT

The maximum Power (CP) for UHF is

Analog: 1W/0.5W 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

## ERP RESULT:

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	ERP Level	Limit	Margin
(MHz)	(dBuv/m)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
Frequency: 462.6375MHz								
462.6375	98.800	V	23.57	0.38	6.6	29.79	33.01	3.22
462.6375	98.740	H	23.51	0.38	6.6	29.73	33.01	3.28
Frequency: 467.6375MHz								
467.6375	94.670	V	19.44	0.38	6.6	25.66	26.99	1.33
467.6375	94.620	H	19.39	0.38	6.6	25.61	26.99	1.38
Frequency: 462.6500MHz								
462.6500	98.960	V	23.73	0.38	6.6	29.95	33.01	3.06
462.6500	98.940	H	23.71	0.38	6.6	29.93	33.01	3.08

Note: ERP level(dBm)=S.G.( dBm)-Cable Lloss(dB)+Ant. Gain(dBi), The Ant. Gain including the correct factor 2.15. and Margin(dB)=Limit(dBm)-Emission Level(dBm).

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## 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.

Part 95.575 A FRS unit that transmits emission type F3E must not exceed a peak frequency deviation of plus or minus 2.5 kHz, and the audio frequency response 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

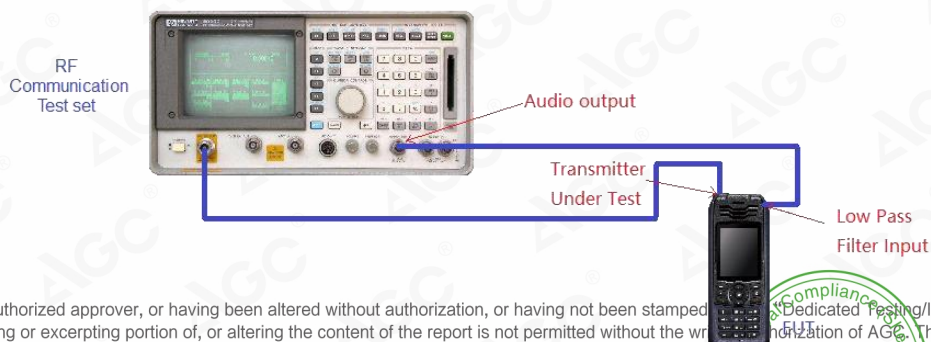
#### 9.2.1 Modulation Limit

- (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 =  $20\log_{10} (\text{Deviation of test frequency} / \text{Deviation of 1 KHz reference})$ .



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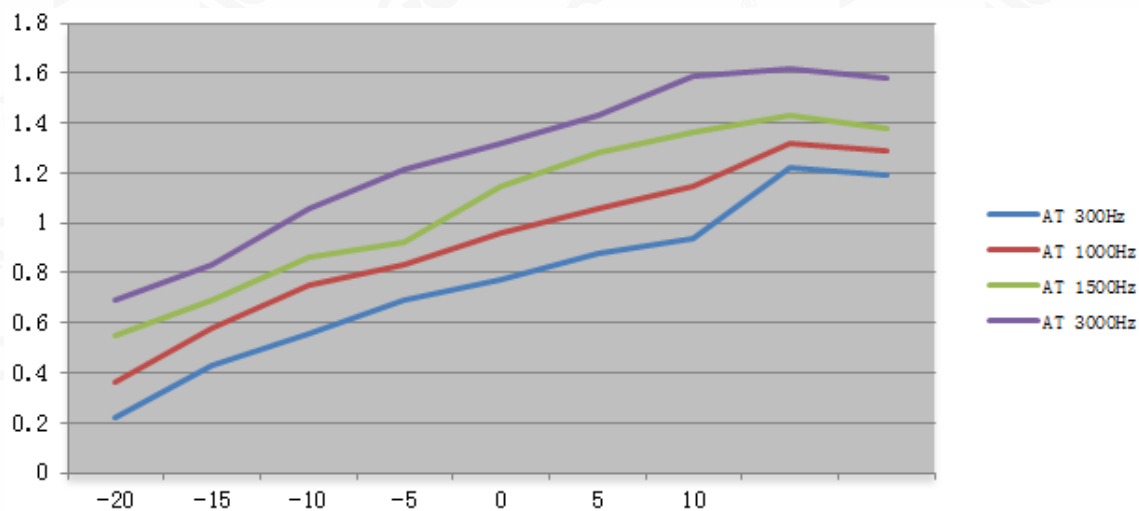
### 9.3 MEASUREMENT RESULT

TEST CHANNEL: 4

(A). MODULATION LIMIT:

**462.6375MHz @ 12.5 KHz Channel Separations-1W**

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	0.22	0.36	0.55	0.69
-15	0.43	0.58	0.69	0.83
-10	0.56	0.75	0.86	1.06
-5	0.69	0.83	0.92	1.21
0	0.77	0.96	1.15	1.32
+5	0.88	1.06	1.28	1.43
+10	0.94	1.15	1.36	1.59
+15	1.22	1.32	1.43	1.62
+20	1.19	1.29	1.38	1.58



Note: 1.All the modes had been tested, but only the worst data recorded in the report.

2. The data unit evaluated in this report is "KHz"

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**(B). AUDIO FREQUENCY RESPONSE:****462.6375MHz @ 12.5 KHz Channel Separations-1W**

Frequency (Hz)	Deviation (KHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.09	-22.35
400	0.31	-11.61
500	0.44	-8.57
600	0.68	-4.79
700	0.75	-3.94
800	0.88	-2.55
900	0.96	-1.79
1000	1.18	0.00
1200	1.33	1.04
1400	1.46	1.85
1600	1.59	2.59
1800	1.66	2.96
2000	1.81	3.72
2400	1.93	4.27
2500	2.12	5.09
2800	2.18	5.33
3000	2.01	4.63
3200	1.93	4.27
3600	1.79	3.62
4000	1.54	2.31
4500	1.37	1.30
5000	1.26	0.57
5500	1.21	0.22
6000	1.03	-1.18
6500	0.51	-7.29
7000	0.32	-11.33
7500	0.13	-19.16
9000	--	--
10000	--	--
14000	--	--
18000	--	--
20000	--	--
30000	--	--

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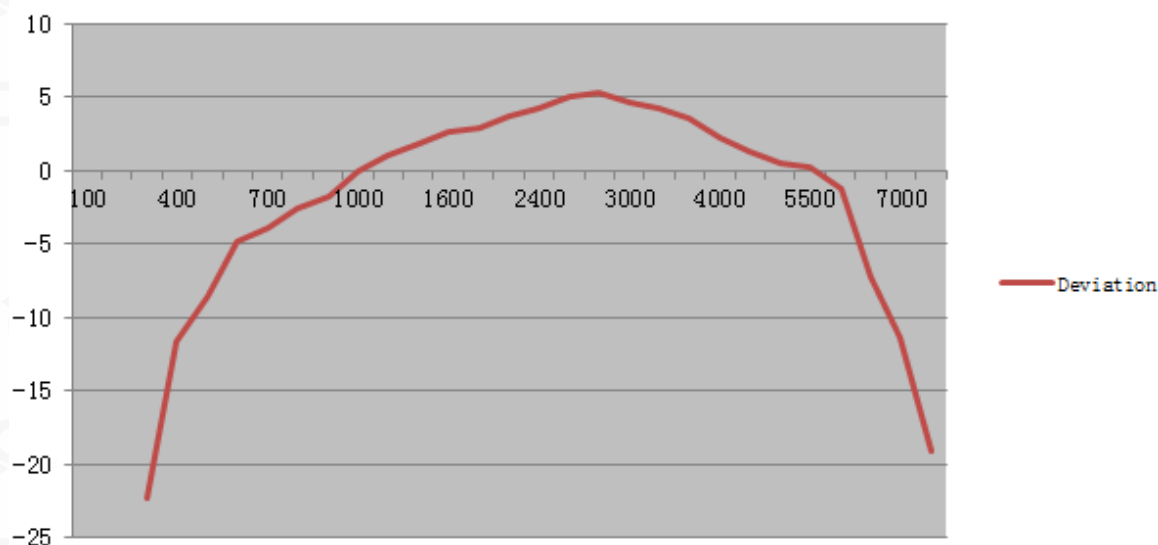
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### Frequency Response Result

## 12.5 KHz Channel Separations



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

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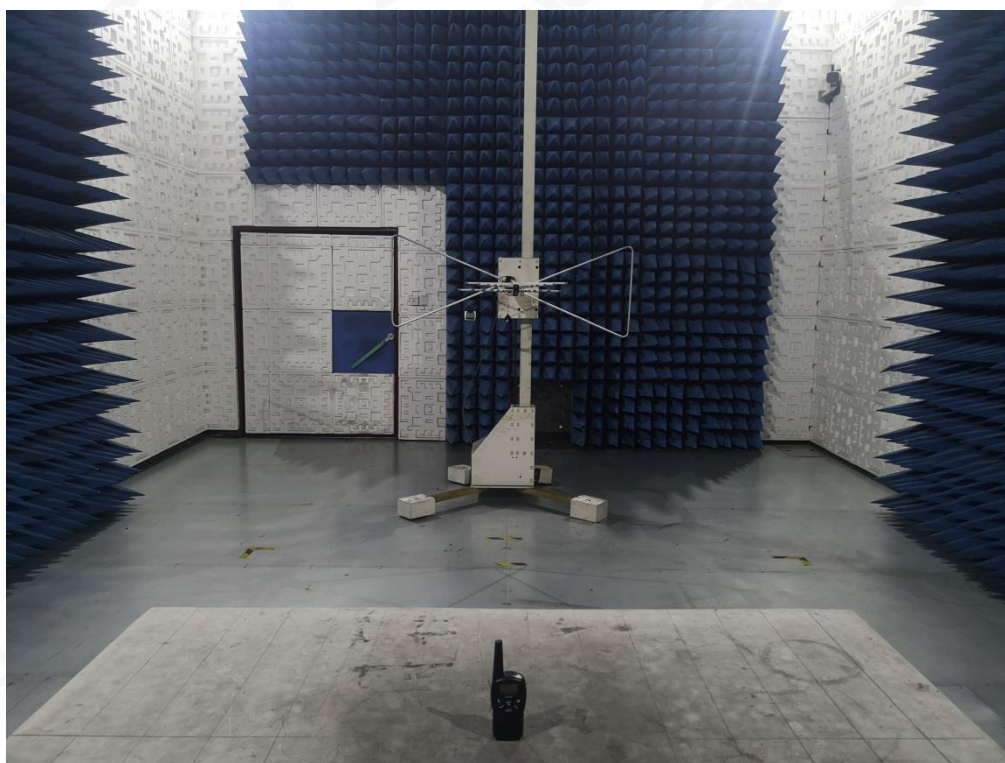
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## APPENDIX I: PHOTOGRAPHS OF SETUP

### RADIATED EMISSION BELOW 1G TEST SETUP



### RADIATED EMISSION ABOVE 1G TEST SETUP



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## APPENDIX II: EXTERNAL VIEW OF EUT

### WHOLE VIEW OF EUT



TOP VIEW OF EUT



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**BOTTOM VIEW OF EUT**



**FRONT VIEW OF EUT**



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



OPEN VIEW-1 OF EUT



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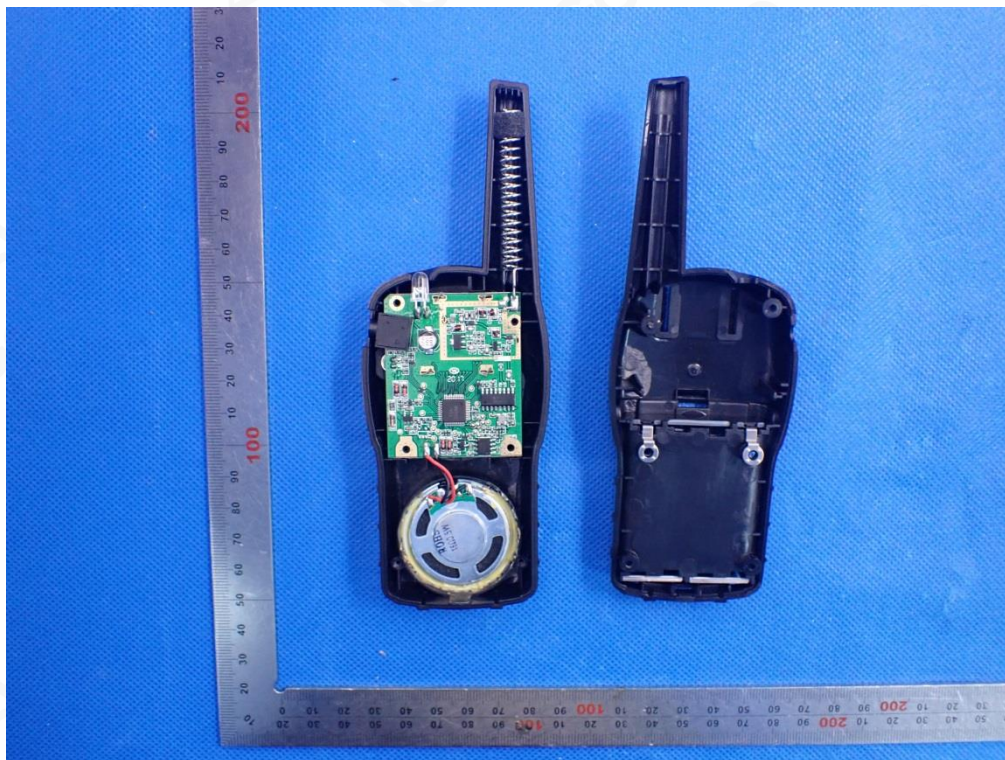
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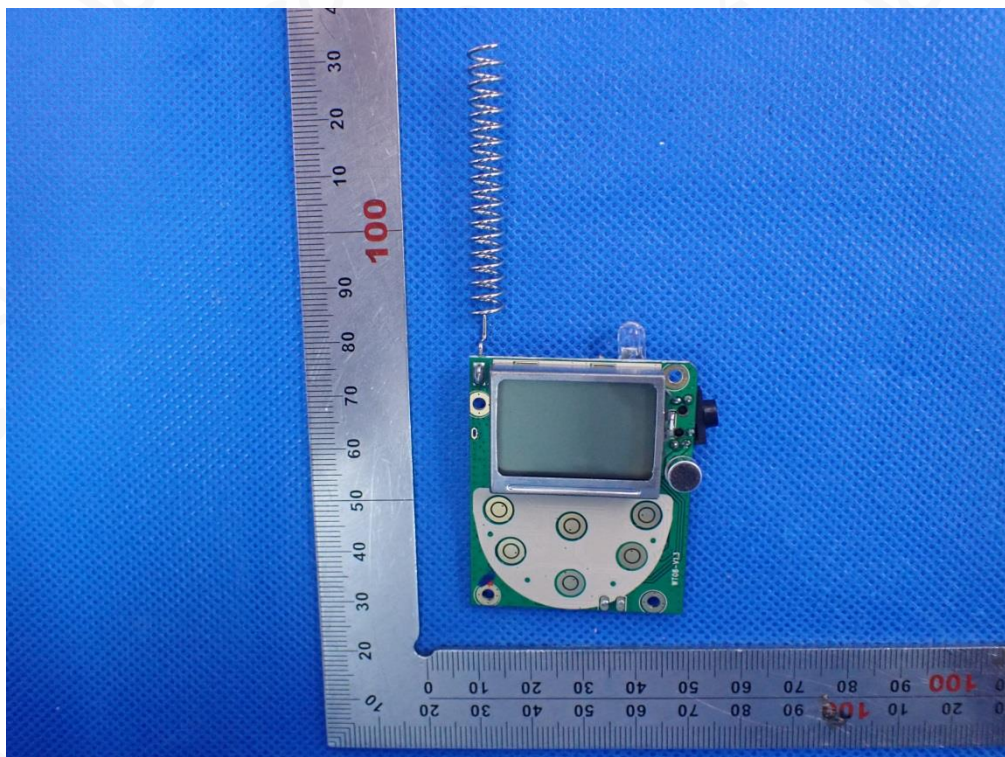
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OPEN VIEW-2 OF EUT



INTERNAL VIEW-1 OF EUT



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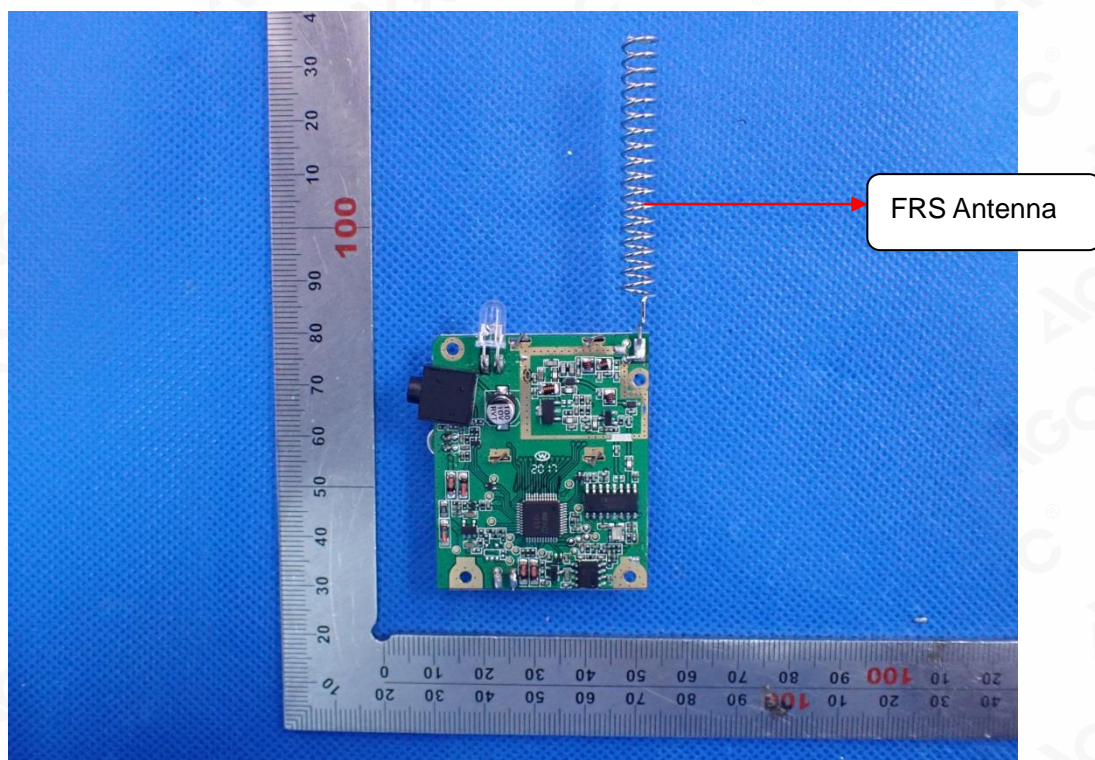
Attestation of Global Compliance(Shenzhen)Co., Ltd

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

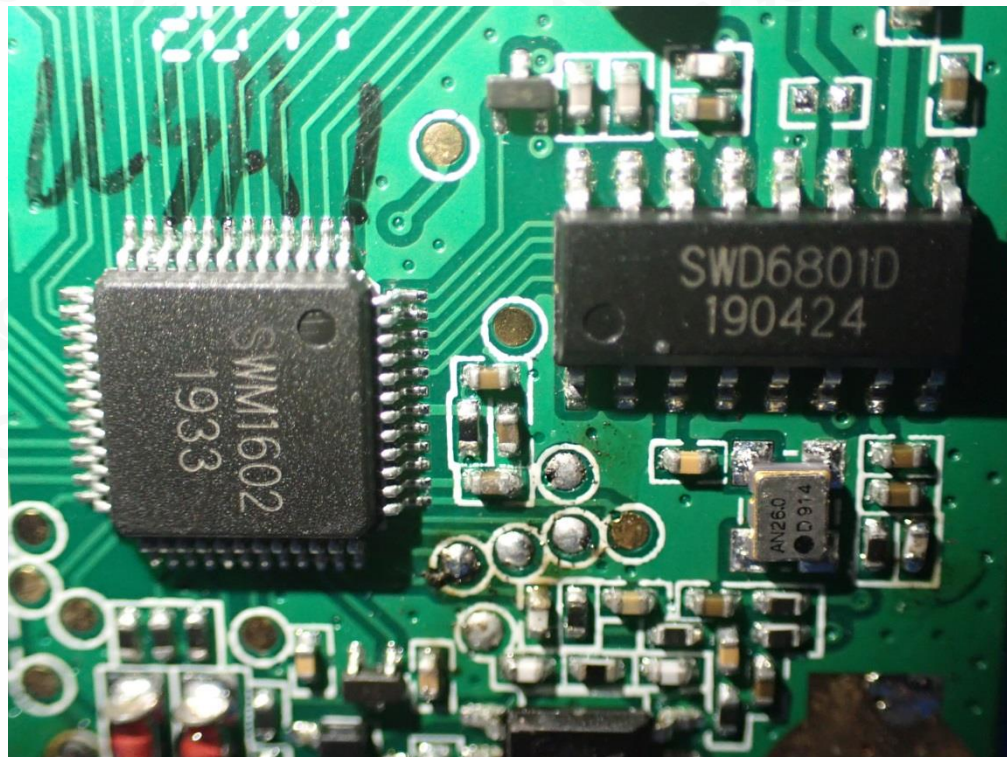
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: <http://cn.agc-cert.com/>



INTERNAL VIEW-2 OF EUT



INTERNAL VIEW-3 OF EUT



---END OF REPORT---

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## Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Dedicated Testing/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 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by [agc@agc-cert.com](mailto:agc@agc-cert.com).

