
FCC Part 95 Rules Test Report

Report No.: AGC01120200301FE10

FCC ID : U7GPCKT
PRODUCT DESIGNATION : Two way radio
BRAND NAME : Blackbox
MODEL NAME : Pocket
APPLICANT : Klein Electronics, Inc.
DATE OF ISSUE : Apr. 13, 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	/	Apr. 13, 2020	Valid	Initial release

VERIFICATION OF COMPLIANCE

Applicant	Klein Electronics, Inc.
Address	349 North Vinewood Street , Escondido, California, USA 92029
manufacturer	Klein Electronics, Inc.
Address	349 North Vinewood Street , Escondido, California, USA 92029
Factory	Klein Electronics, Inc.
Address	349 North Vinewood Street , Escondido, California, USA 92029
Product Designation:	Two way radio
Brand Name:	Blackbox
Test Model	Pocket
Date of Test:	Mar. 18, 2020~Apr. 13, 2020

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	 <hr/> Calvin Liu (Project Engineer)	Apr. 13, 2020
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1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

The EUT is a **Two way 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:

Product Designation	Two way radio
Test Model	Pocket
Hardware Version	Klein Electronics
Software Version	V1.3
Modulation	FM
Channel Separation	12.5KHz
Emission Type	11K0F3E
Emission Bandwidth	10.679KHz
Maximum Transmitter Power	26.91dBm
Rated Output power	0.5W (It was fixed by the manufacturer, any individual can't arbitrarily change it.)
Antenna Designation	Inseparable
Antenna Gain	1.8dBi
Power Supply	DC 3.70V
Limiting Voltage	DC 3.15V-4.26V
Operation Frequency Range and Channel	FRS Test Channel 11: 467.6375MHz (0.5W);
Frequency Tolerance	1.091ppm

Channel List:

Operation Frequency Each of Channel					
FRS		FRS		FRS	
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	/	8	467.5625 MHz	15	/
2	/	9	467.5875 MHz	16	/
3	/	10	467.6125 MHz	17	/
4	/	11	467.6375 MHz	18	/
5	/	12	467.6625 MHz	19	/
6	/	13	467.6875 MHz	20	/
7	/	14	467.7125 MHz	21	/
				22	/

1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for FCC ID: **U7GPCKT**, 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

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

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	Two way radio	Pocket	FCC ID: U7GPCKT	EUT

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	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
Note:			
1) N/A: In this whole report not application.			
2) The EUT is Integral Antenna.			

LIST OF EQUIPMENTS USED

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.18, 2018	Sep.17, 2020
preamplifier	ChengYi	EMC184045SE	980508	Sep. 23, 2019	Sep. 22, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun. 12, 2019	Jun. 11, 2020
Double-Ridged Waveguide Horn	ETS	3117	00154520	May. 17, 2019	May. 16, 2021
SIGNAL GENERATOR	AGILENT	E4421B	122501288	May. 13, 2019	May. 12, 2020
SIGNAL GENERATOR	R&S	SMT03	A0304261	Jun. 12, 2019	Jun. 11, 2020
ANTENNA	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 09, 2019	Jan. 08, 2021
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.26, 2018	Sep.25, 2020
Modulation Domain Analyzer	HP	53310A	3121A02467	Oct. 30, 2019	Oct. 29, 2020
Small environmental tester	ESPEC	SH-242	--	Oct. 08, 2019	Oct. 07, 2020
RF Communication Test Set	HP	8920B	--	Jun. 12, 2019	Jun. 11, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 13, 2019	Jun. 12, 2020
Attenuator	COM-MW	WT-F0082	WT170704-2-1	May. 13, 2019	May. 12, 2020
Vector Analyzer	Agilent	E4440A	US40420298	July 02, 2019	July 01, 2020
RF Cable	R&S	1#	--	Each time	N/A

Note: 8920B can generate audio modulation frequency.

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

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 ± 2.5 ppm.

5.2 MEASUREMENT PROCEDURE

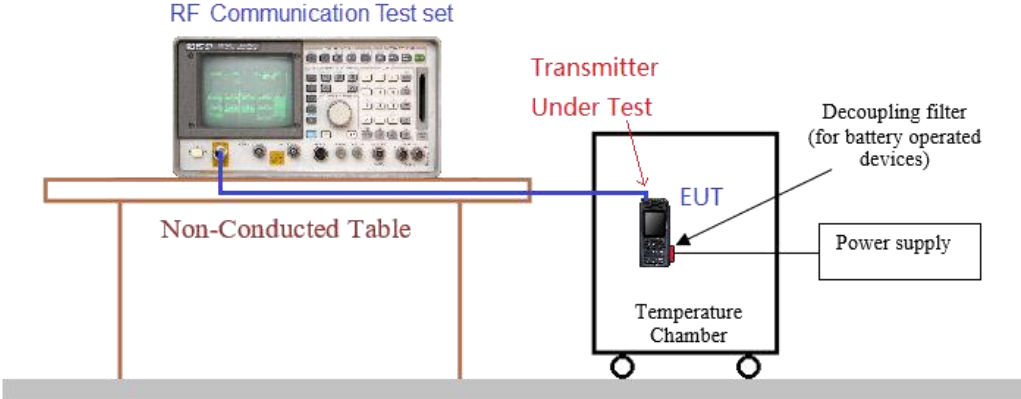
5.2.1 Frequency stability versus environmental temperature

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 3.7V.
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



5.3 TEST RESULT

(1) Frequency stability versus input voltage (Supply nominal voltage is 3.7V)

Environment Temperature(°C)	Power Supply	Reference Frequency	Limit:
	(V)	467.6375MHz	ppm
50	DC 3.70V	0.994	±2.5for FRS
40	DC 3.70V	0.495	
30	DC 3.70V	0.601	
20	DC 3.70V	0.410	
10	DC 3.70V	0.614	
0	DC 3.70V	0.867	
-10	DC 3.70V	0.869	
-20	DC 3.70V	0.607	
-30	DC 3.70V	0.333	
Result	Pass		

(2) Frequency stability versus input voltage (Battery Fully Charged voltage is 4.26V)

Environment Temperature(°C)	Power Supply	Reference Frequency	Limit:
	(V)	467.6375MHz	ppm
50	DC 4.26V	0.653	±2.5for FRS
40	DC 4.26V	0.524	
30	DC 4.26V	0.586	
20	DC 4.26V	1.091	
10	DC 4.26V	0.957	
0	DC 4.26V	0.521	
-10	DC 4.26V	0.933	
-20	DC 4.26V	0.500	
-30	DC 4.26V	0.747	
Result	Pass		

(3) Frequency stability versus input voltage (Battery limiting voltage is 3.15V)

Environment Temperature(°C)	Power Supply	Reference Frequency	Limit:
	(V)	467.6375MHz	ppm
50	DC 3.15V	0.389	±2.5for FRS
40	DC 3.15V	1.070	
30	DC 3.15V	0.599	
20	DC 3.15V	0.817	
10	DC 3.15V	0.558	
0	DC 3.15V	0.513	
-10	DC 3.15V	0.797	
-20	DC 3.15V	0.907	
-30	DC 3.15V	1.035	
Result	Pass		

Note: 1.Battery terminal voltage is declared and specified by the manufacturer.

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).

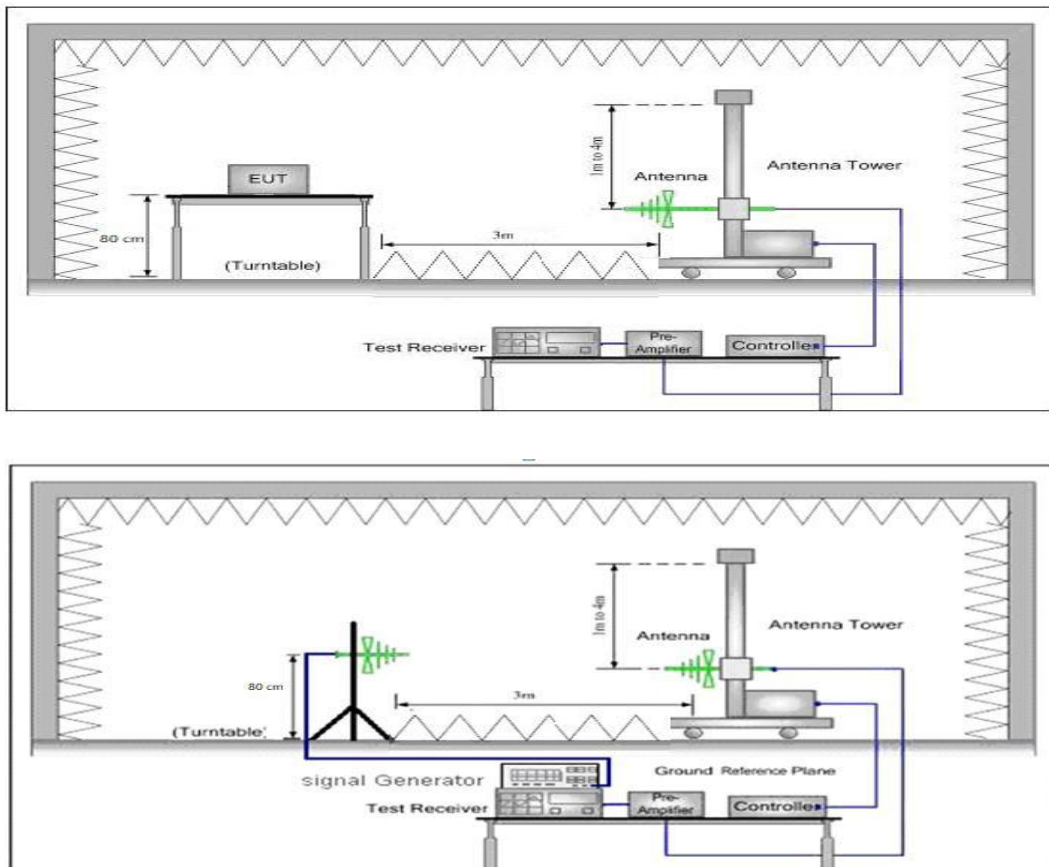
2). Set SPA Center Frequency = fundamental frequency, RBW=300Hz.VBW= 1KHz, Span =50 KHz.

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

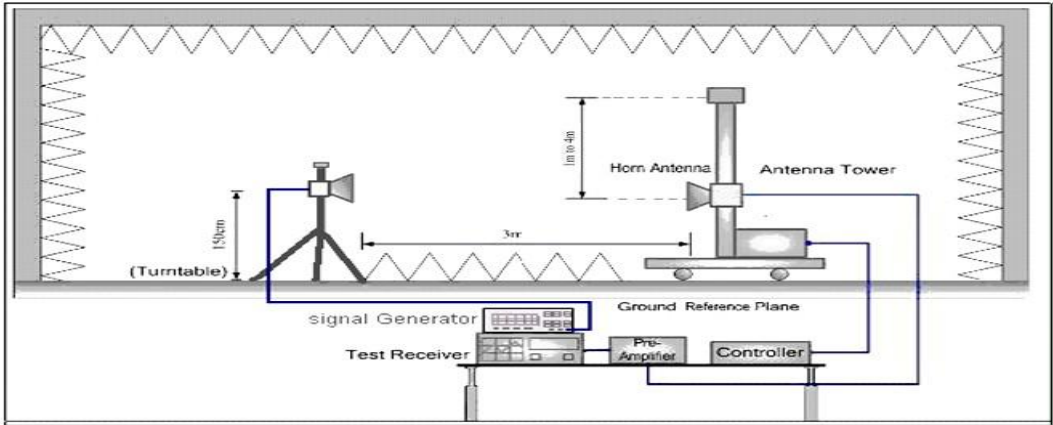
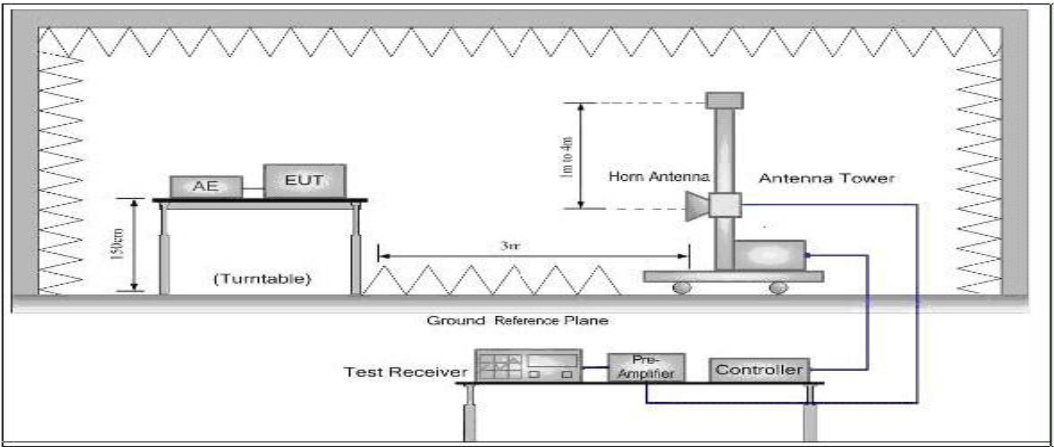
6.3 TEST SETUP BLOCK DIAGRAM

Radiation method:

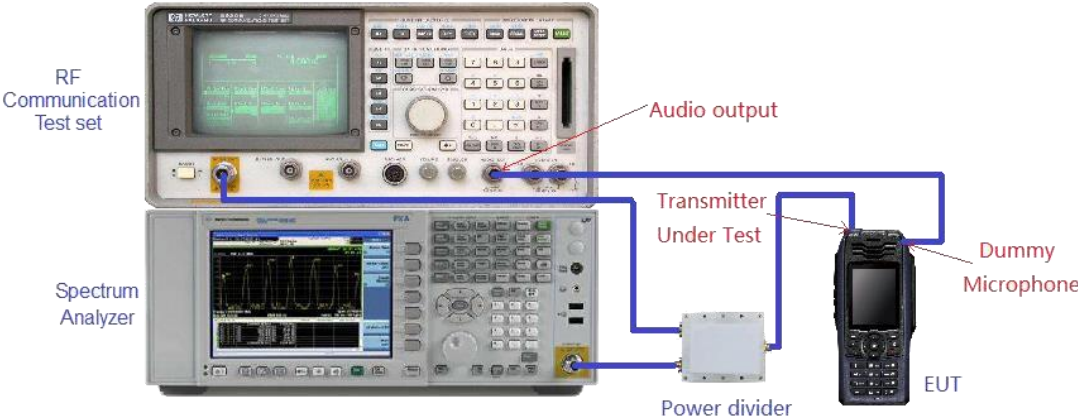
Radiated Below1GHz



Radiated Above 1 GHz



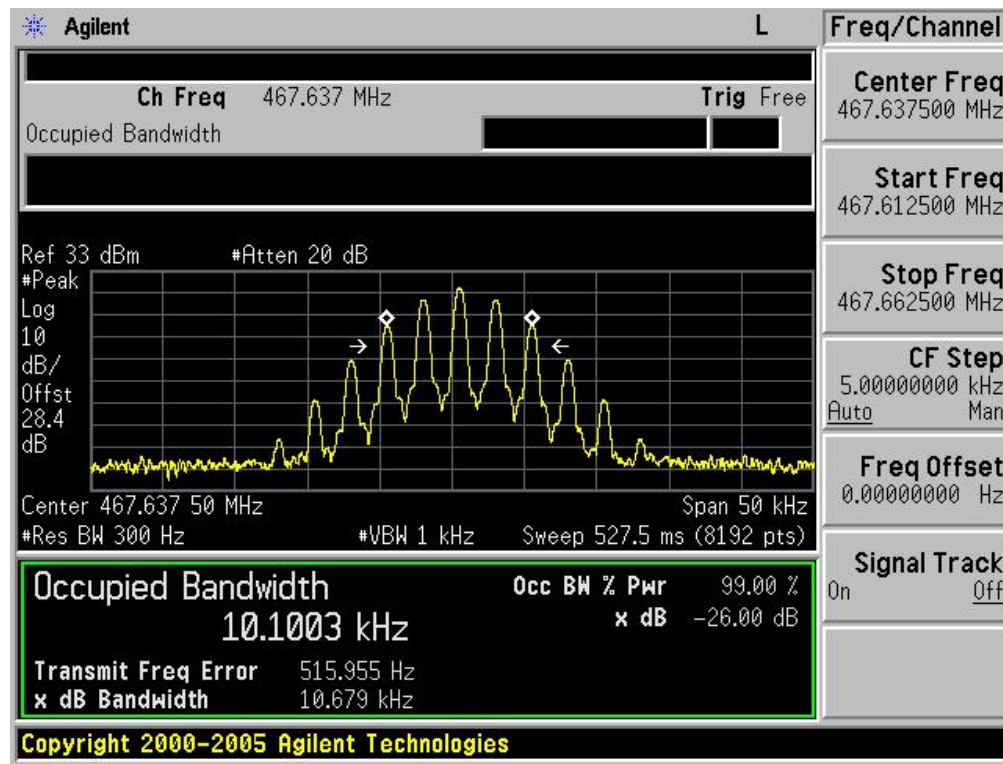
Conduction method:



6.4 MEASUREMENT RESULT

26 dB Bandwidth Measurement Result			
Operating Frequency	12.5 KHz Channel Separation		
	Test Data	Limits	Result
467.6375MHz	10.679KHz	12.5 KHz	Pass

Occupied bandwidth of 467.6375MHz-0.5W



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

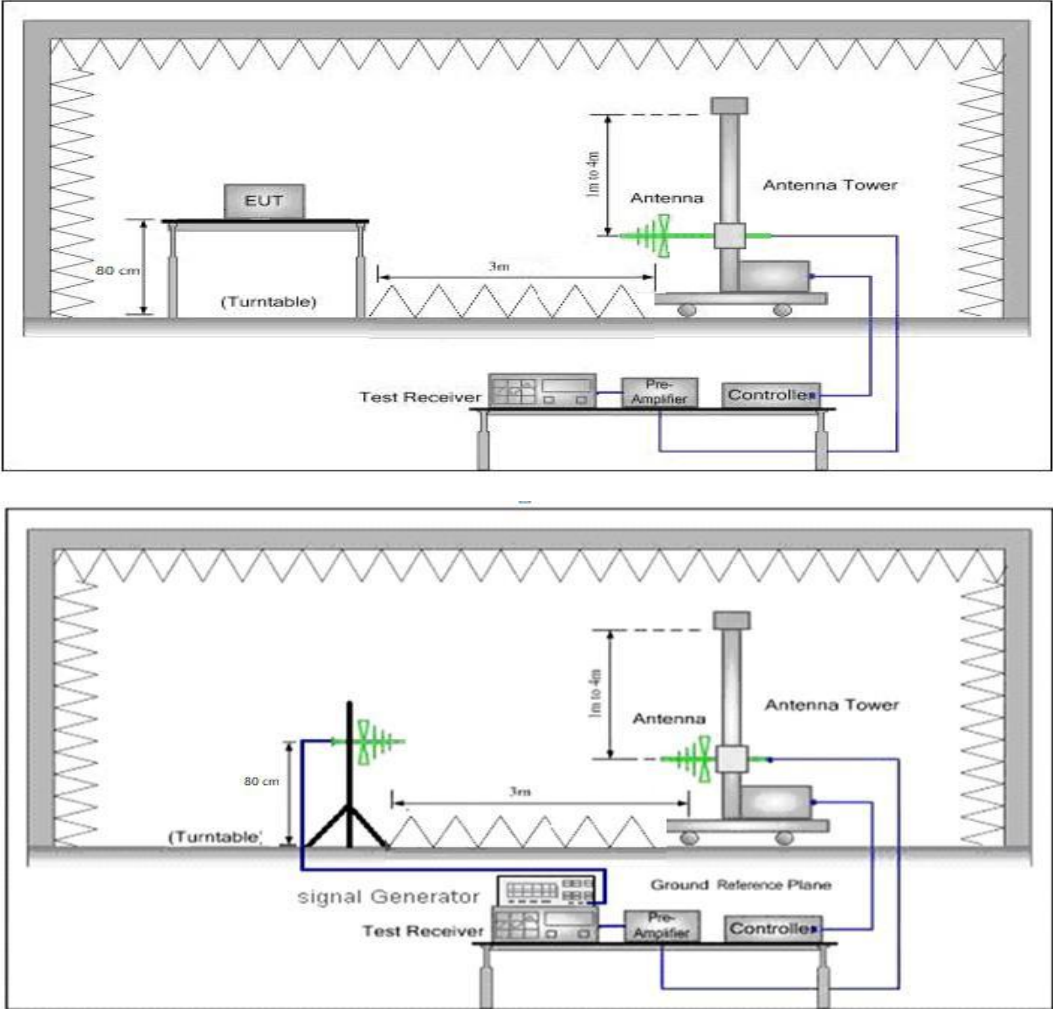
- (1) On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall 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.

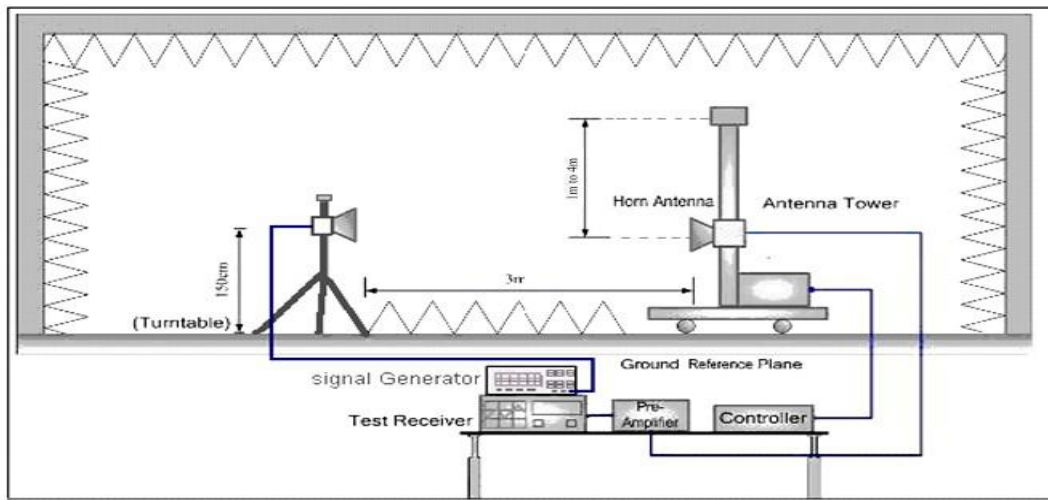
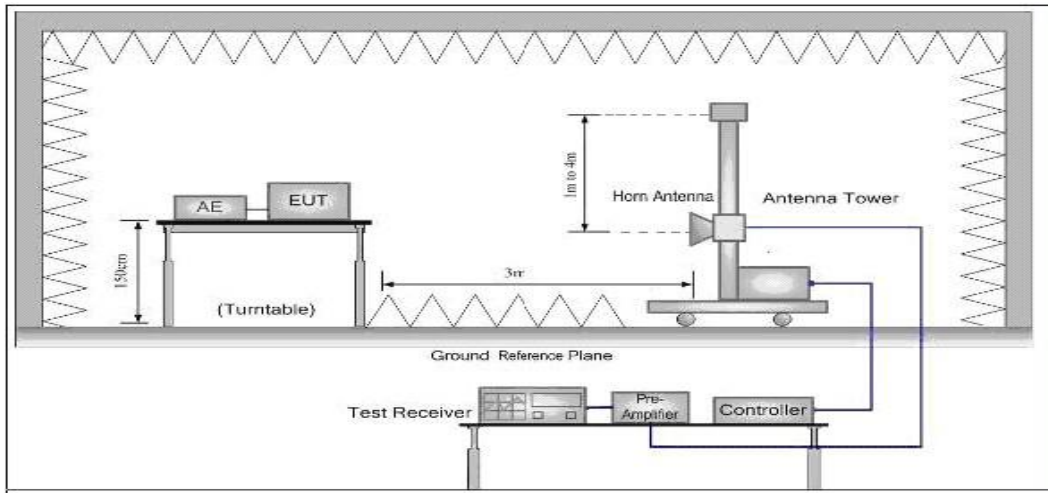
7.3 TEST SETUP BLOCK DIAGRAM

SUBSTITUTION METHOD: (Radiated Emissions)

Radiated Below 1GHz



Radiated Above 1 GHz

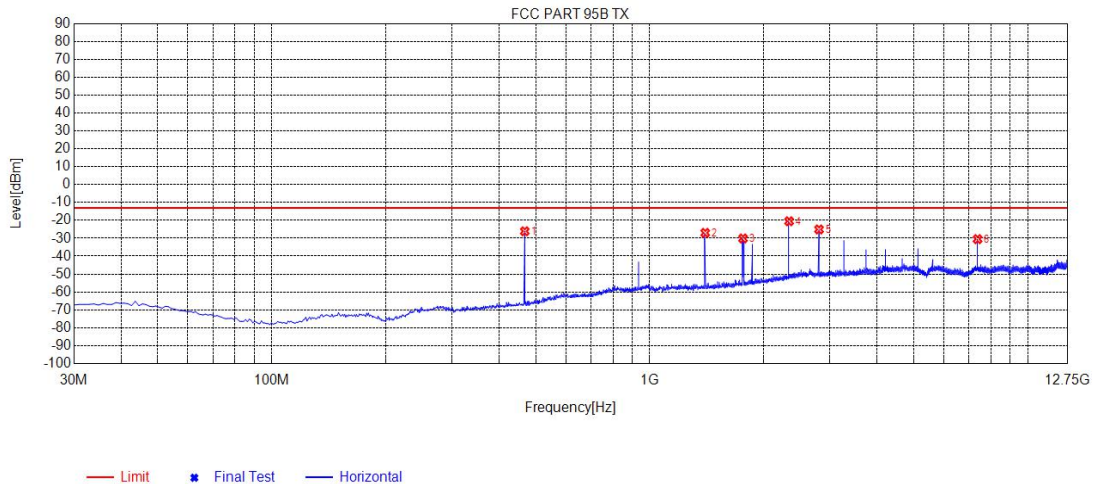


7.4 MEASUREMENT RESULTS:

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

Limit: At least $43 + 10 \log(P) = 43 + 10 \log(0.5) = 39.99$ (dBc) $26.99 - 39.99 = -13$ dBm

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

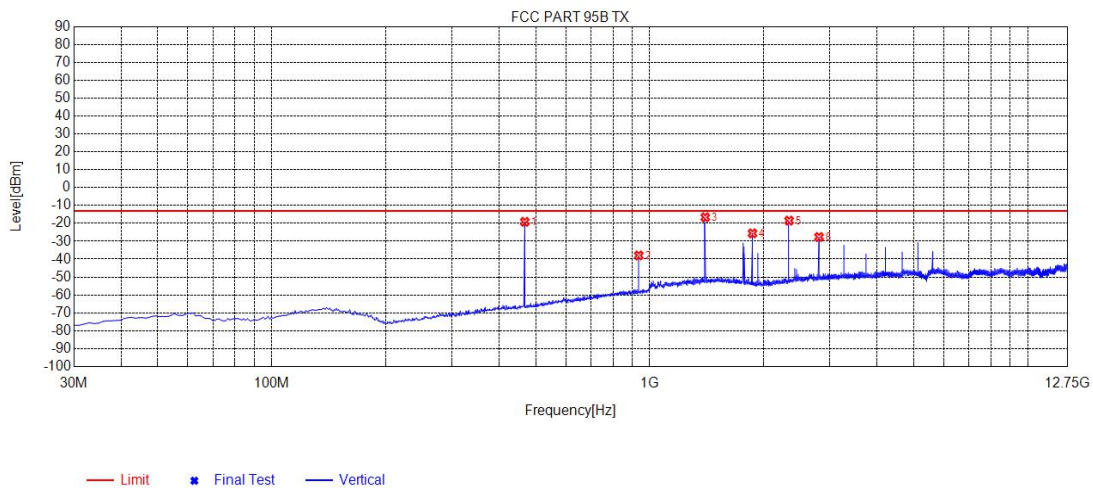


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	467.4700	-61.79	-26.08	-13.00	13.08	35.71	354	Horizontal
2	1403.0653	-23.56	-26.97	-13.00	13.97	-3.41	17	Horizontal
3	1766.1766	-28.87	-30.09	-13.00	17.09	-1.22	326	Horizontal
4	2338.4588	-23.67	-20.49	-13.00	7.49	3.18	346	Horizontal
5	2806.1556	-30.02	-25.06	-13.00	12.06	4.96	360	Horizontal
6	7370.3120	-43.63	-30.48	-13.00	17.48	13.15	289	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

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	467.4700	-55.06	-19.13	-13.00	6.13	35.93	359	Vertical
2	935.9800	-81.59	-37.91	-13.00	24.91	43.68	15	Vertical
3	1403.0653	-18.13	-16.61	-13.00	3.61	1.52	175	Vertical
4	1870.7621	-26.42	-25.56	-13.00	12.56	0.86	137	Vertical
5	2338.4588	-21.03	-18.48	-13.00	5.48	2.55	62	Vertical
6	2806.1556	-32.19	-27.62	-13.00	14.62	4.57	155	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

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:

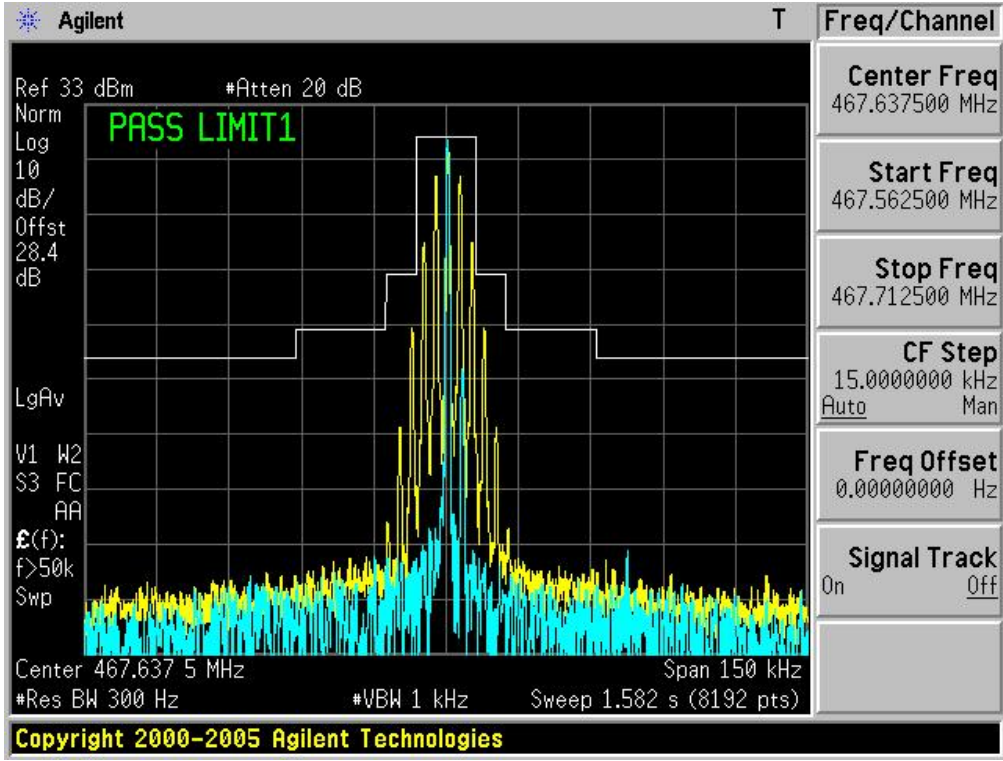
- (1) At least 25 dB (decibels) on any frequency removed from the center of the authorized bandwidth by more than 50 % up to and including 100% of the authorized bandwidth.
- (2) At least 35 dB on any frequency removed from the center of the authorized bandwidth by more than 100 % up to and including 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.

Channel 11:

The Worst Emission Mask for channel 11 -0.5W



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.

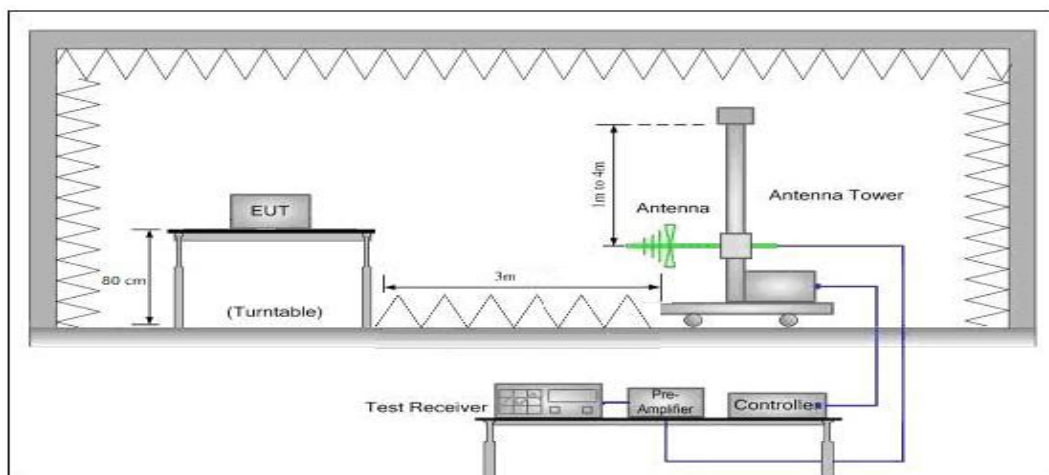
8.2 TEST PROCEDURE

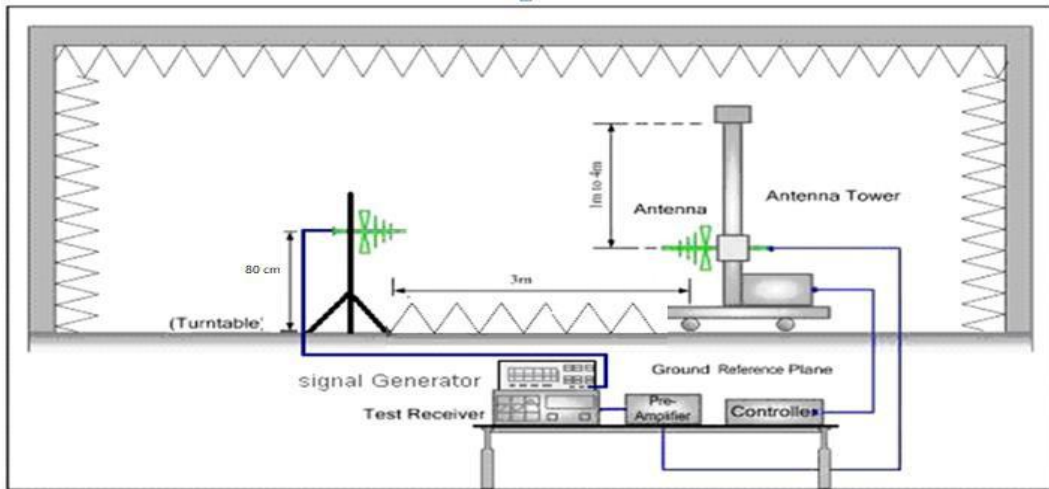
- (1) The spectrum setting for Equivalent Isotropically Radiated Power (EIRP) is RBW = 100 kHz, VBW = 300 kHz. Detector Mode is RMS.
- (2) In the semi-anechoic chamber, setup as illustrated above the EUT placed on the 1.5m height of Turn Table, rotated the table 45 degree each interval to search the 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

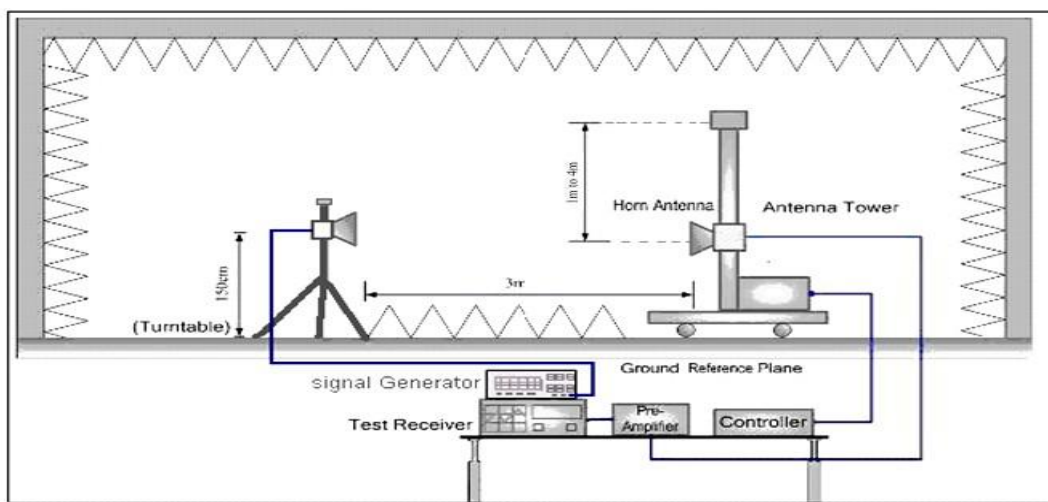
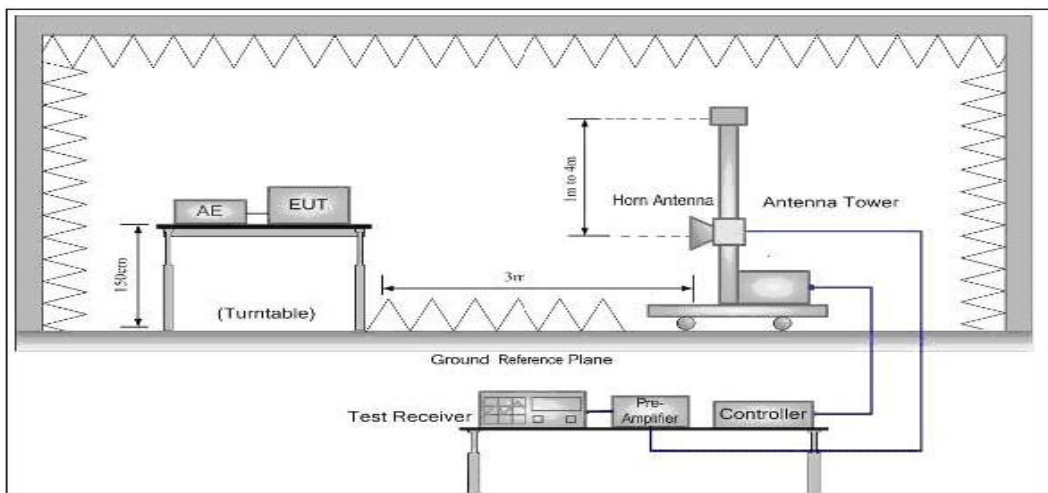
Effective Radiated Power

Radiated Below 1GHz





Radiated Above 1 GHz



8.4 TEST RESULT

The maximum Power (CP) for UHF is
Analog: 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	Emission Level	Limit	Margin
(MHz)	(dBuv/m)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
Frequency: 467.6375MHz								
467.6375	116.00	V	20.69	0.38	6.6	26.91	26.99	0.08
467.6375	115.86	H	20.63	0.38	6.6	26.85	26.99	0.14

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

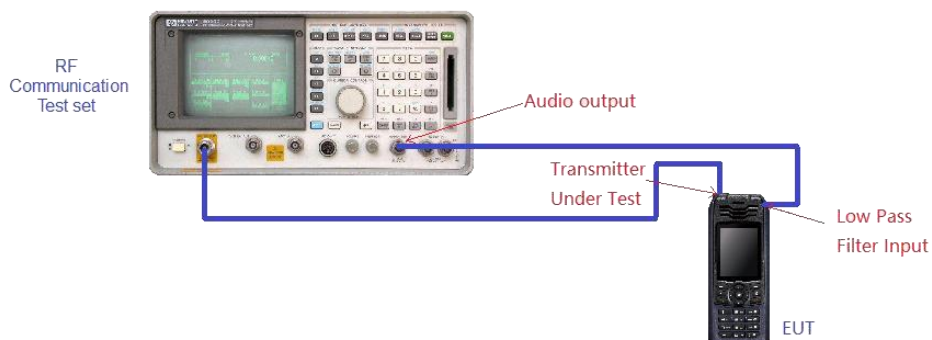
9.2.1 Modulation Limit

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



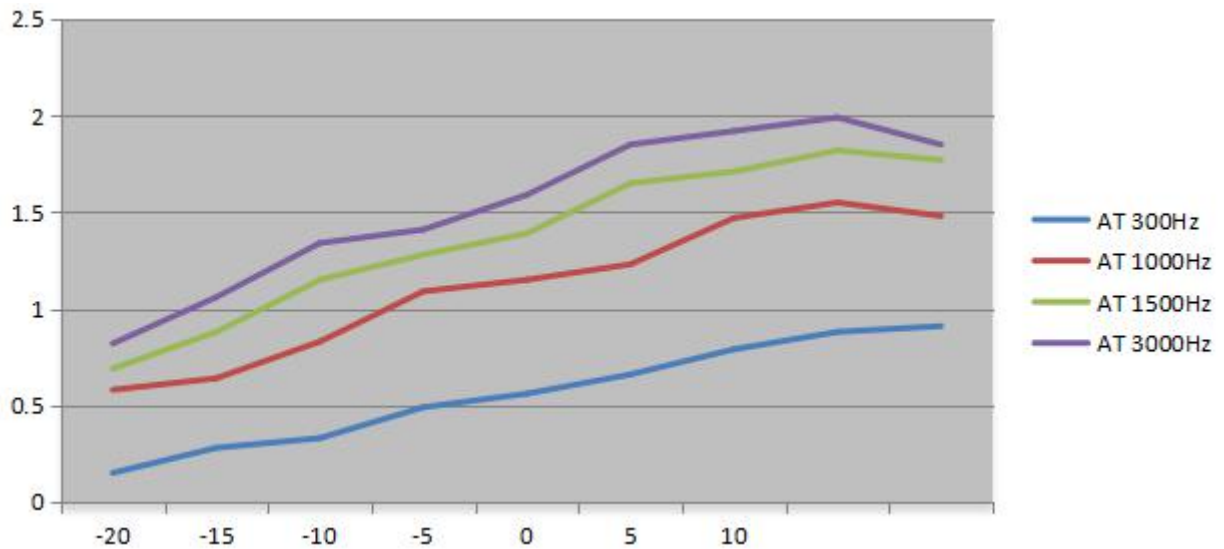
9.3 MEASUREMENT RESULT

TEST CHANNEL: 11

(A). MODULATION LIMIT:

467.6375MHz @ 12.5 KHz Channel Separations-0.5W

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	0.15	0.58	0.69	0.82
-15	0.28	0.64	0.88	1.06
-10	0.33	0.83	1.15	1.34
-5	0.49	1.09	1.28	1.41
0	0.56	1.15	1.39	1.59
+5	0.66	1.23	1.65	1.85
+10	0.79	1.47	1.71	1.92
+15	0.88	1.55	1.82	1.99
+20	0.91	1.48	1.77	1.85



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

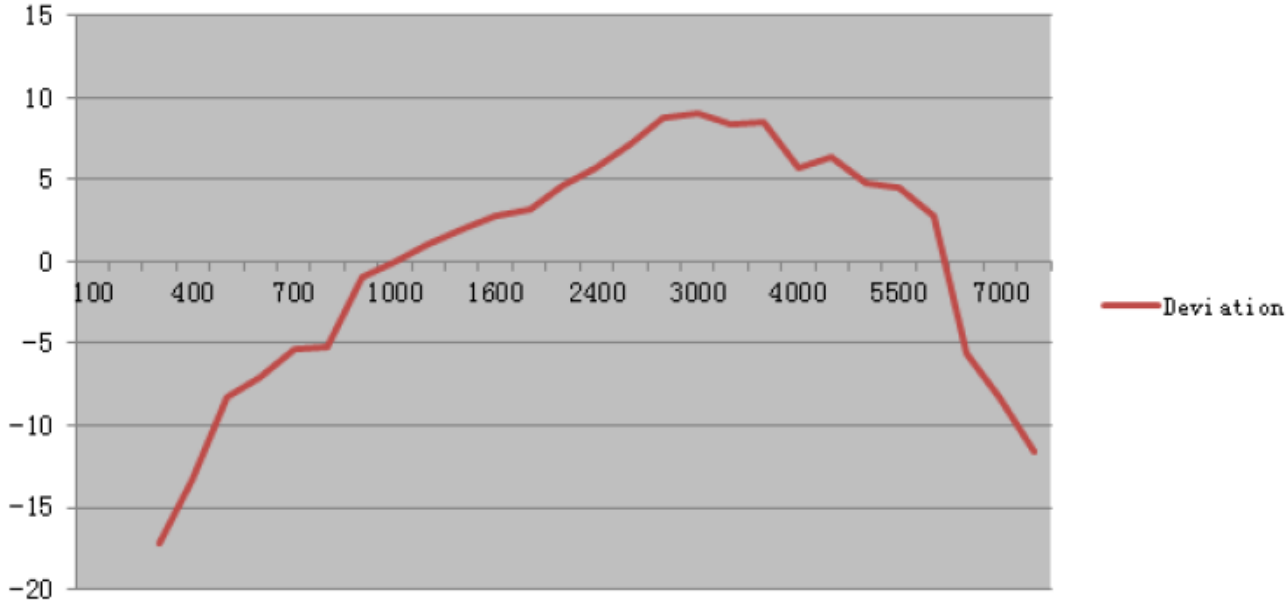
(B). AUDIO FREQUENCY RESPONSE:

467.6375MHz @ 12.5 KHz Channel Separations-0.5W

Frequency (Hz)	Deviation (KHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.09	-17.17
400	0.14	-13.34
500	0.25	-8.30
600	0.29	-7.01
700	0.35	-5.38
800	0.44	-5.19
900	0.58	-0.99
1000	0.65	0.00
1200	0.73	1.01
1400	0.81	1.91
1600	0.89	2.73
1800	0.93	3.11
2000	1.10	4.57
2400	1.25	5.68
2500	1.48	7.15
2800	1.79	8.80
3000	1.85	9.09
3200	1.69	8.30
3600	1.74	8.55
4000	1.25	5.68
4500	1.36	6.41
5000	1.13	4.80
5500	1.09	4.49
6000	0.89	2.73
6500	0.34	-5.63
7000	0.25	-8.30
7500	0.17	-11.65
9000	--	--
10000	--	--
14000	--	--
18000	--	--
20000	--	--
30000	--	--

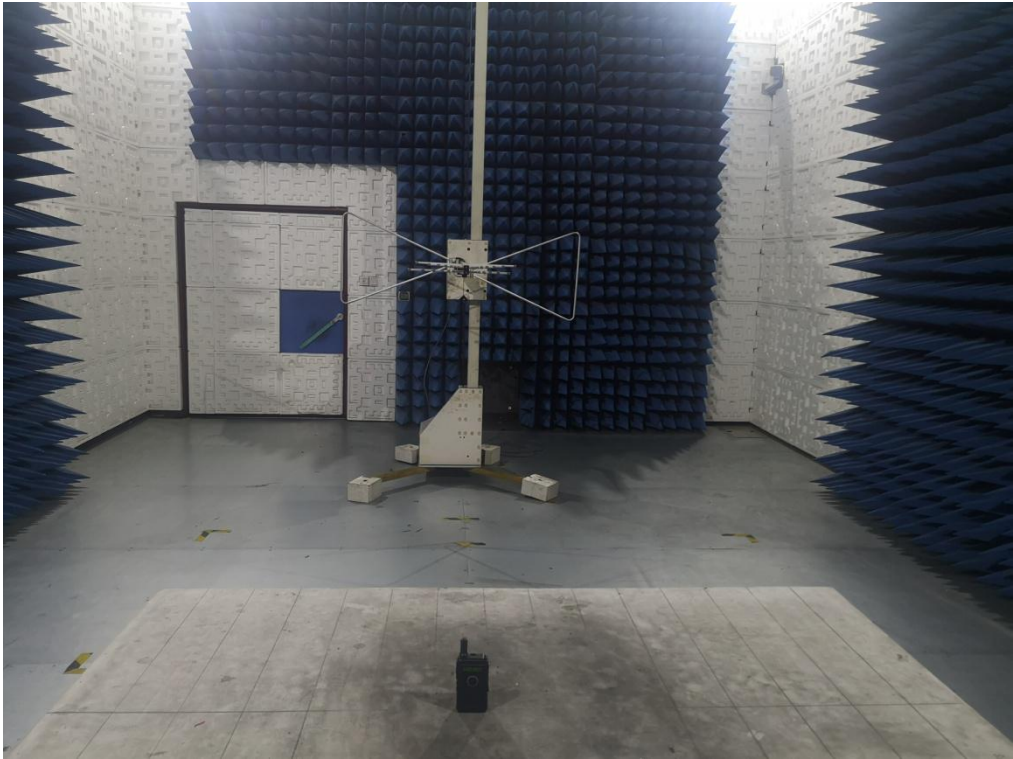
Frequency Response Result

12.5 KHz Channel Separations



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



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



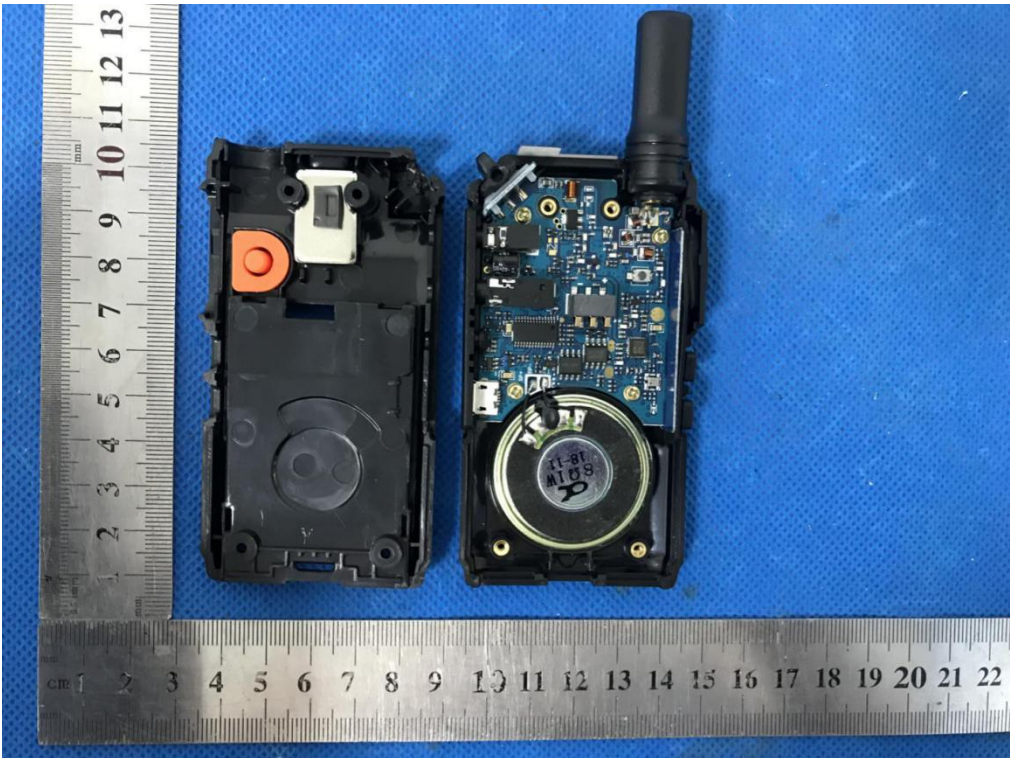
RIGHT VIEW OF EUT



OPEN VIEW-1 OF EUT



OPEN VIEW-2 OF EUT



INTERNAL VIEW-1 OF EUT

