

FCC Test Report

Report No.: AGC02931210603FE10

FCC ID : POD-ANG2

PRODUCT DESIGNATION: Analog Transceiver

BRAND NAME : TYT

MODEL NAME : TC-19, TC-15

APPLICANT: TYT Electronics Co., Ltd.

DATE OF ISSUE : Jul. 23, 2021

STANDARD(S) : FCC Part 90 Rules

FCC Part 22 Rules

REPORT VERSION: V 1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Page 2 of 49

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	Jul. 23, 2021	Valid	Initial Release

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Report No.: AGC02931210603FE10 Page 3 of 49

TABLE OF CONTENTS

1. GENERAL INFORMATION	
2. PRODUCT INFORMATION	6
2.1 PRODUCT TECHNICAL DESCRIPTION	6
2.2 TEST FREQUENCY LIST	7
2.3 RELATED SUBMITTAL(S) / GRANT (S)	
2.4 TEST METHODOLOGY	
2.5 CALCULATION OF EMISSION INDICATORS	Ε
2.6 SPECIAL ACCESSORIES	9
2.7 EQUIPMENT MODIFICATIONS	9
3. TEST ENVIRONMENT	
3.1 ADDRESS OF THE TEST LABORATORY	
3.2 TEST FACILITY	10
3.3 ENVIRONMENTAL CONDITIONS	11
3.4 MEASUREMENT UNCERTAINTY	
3.5 LIST OF EQUIPMENTS USED	
4.SYSTEM TEST CONFIGURATION	
4.1 EUT CONFIGURATION	13
4.2 EUT EXERCISE	13
4.3 CONFIGURATION OF TESTED SYSTEM	
4.4 EQUIPMENT USED IN TESTED SYSTEM	13
4.5 SUMMARY OF TEST RESULTS	14
5.DESCRIPTION OF TEST MODES	
6.FREQUENCY TOLERANCE	
6.1 PROVISIONS APPLICABLE	16
6.2 MEASUREMENT PROCEDURE	16
6.3 MEASUREMENT SETUP	16
6.4 MEASUREMENT RESULTS	
7. EMISSION BANDWIDTH	18
7.1 PROVISIONS APPLICABLE	18
7.2 MEASUREMENT PROCEDURE	18
7.3 MEASUREMENT SETUP	18
7.4 MEASUREMENT RESULTS	19
8. SPURIOUS RATIATED EMISSION	21
8.1 PROVISIONS APPLICABLE	21
8.2 MEASUREMENT PROCEDURE	21

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Page 4 of 49

8.3 MEASUREMENT SETUP		
8.4 MEASUREMENT RESULTS		23
8.5 EMISSION MASK PLOT		29
9.MODULATION CHARACTERISTICS		31
9.1 PROVISIONS APPLICABLE		
9.2 MEASUREMENT METHOD		3′
9.3 MEASUREMENT SETUP		
9.4 MEASUREMENT RESULTS		
10. MAXIMUMN TRANSMITTER POWER		34
10.1 PROVISIONS APPLICABLE		
10.2 MEASUREMENT METHOD		32
10.3 MEASUREMENT METHOD		
10.4 MEASUREMENT RESULTS		36
11. SPURIOUS EMISSION ON ANTENNA PORT		
11.1 PROVISIONS APPLICABLE		
11.2 MEASUREMENT METHOD		
11.3 MEASUREMENT SETUP		
11.4 MEASUREMENT RESULTS		
12.TRANSMITTER FREQUENCY BEHAVIOR		
12.1 PROVISIONS APPLICABLE		40
13.2 MEASUREMENT SETUP		
12.3 MEASUREMENT METHOD		
12.4 MEASURET RESULTS		
13. AUDIO LOW PASS FILTER RESPONSE		
13.1 PROVISIONS APPLICABLE		44
13.2 MEASUREMENT METHOD	<u> </u>	45
13.3 MEASUREMENT SETUP		45
13.4 MEASURET RESULTS		46
APPENDIX I: PHOTOGRAPHS OF TEST SETUP		
APPENDIX II: PHOTOGRAPHS OF TEST FUT		40

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Page 5 of 49

1. GENERAL INFORMATION

Applicant	TYT Electronics Co., Ltd.
Address	Block 39-1, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China.
Manufacturer	TYT Electronics Co., Ltd.
Address	Block 39-1, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China.
Factory	TYT Electronics Co., Ltd.
Address	Block 39-1, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China.
Product Designation	Analog Transceiver
Brand Name	TYT
Test Model	TC-19
Series Model(s)	TC-15
Difference Description	Only the product shell line design and model name are differents.
Deviation from Standard	None
Date of Receipt	Jun. 17, 2021
Date of Test	Jun. 17, 2021~Jul. 23, 2021
Test Result	Pass

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 ANSI/TIA-603-E-2016. The sample tested as described in this report is in compliance with the FCC Rules Part 22 and 90. The test results of this report relate only to the tested sample identified in this report.

Prepared By

Donjon Huang
(Project Engineer)

Reviewed By

Calvin Liu
(Reviewer)

Jul. 23, 2021

Approved By

Forrest Lei
Authorized Officer

Jul. 23, 2021

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Page 6 of 49

2. PRODUCT INFORMATION

2.1 PRODUCT TECHNICAL DESCRIPTION

Hardware Version	A202003-BKEM10U-	V2.2		
Software Version	V1.37	V1.37		
Power Supply	DC 7.4V 2000mAh by	DC 7.4V 2000mAh by battery		
Adapter Information	Input AC 100-240V, 5 Output: DC 12V 0.5A	Input AC 100-240V, 50/60Hz, 0.2A		
Communication Type	Voice / Data			
Operation Frequency Range	From 400MHz to 480MHzUHF			
Modulation Type	Analog Voice: FM			
Channel Separation	Analog Voice:	12.5 kHz		
Support Data Rate	9600bps	· P NO 100		
Emission Designator	Analog Voice:	□ UHF:11K0F3E-2W-12.5kHz □ UHF:1		
Rated Output Power	UHF:2W (It was fixed by the m	anufacturer, any individual can't arbitrarily change it.)		
Maximum Transmitter Power	UHF: 32.93dBm(2W-12.5kHz)			
Antenna Designation	Detachable Antenna			
Antenna Gain	1.5dBi	P 10 00 0		

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Page 7 of 49

2.2 TEST FREQUENCY LIST

Operation mode	Channel Separation	Operation Frequency Range	Test channel	Test Frequency
	12.5 kHz	400-480MHz	Bottom	406.125 MHz
-C	12.5 kHz	400-480MHz	Middle	453.2125 MHz
Analog	12.5 kHz	400-480MHz	Middle	454.025 MHz
8	12.5 kHz	400-480MHz	Middle	458.2125 MHz
30	12.5 kHz	400-480MHz	Тор	479.975 MHz

Note:

In section KDB 634817 D01 Sections II) (f) (1) and (2):

Test at least one frequency in each band for each rule part applied under and ensure the device is capable of operating on the frequency under each rule part. This requirement may result in testing on multiple frequencies. Testing on one frequency may be acceptable if multiple listed bands for a rule part with a continuous frequency range are split to remove a conflict with other rules and the technical requirements in the split bands are the same. Additional requirements for RF exposure may apply.

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Page 8 of 49

2.3 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for FCC ID: **POD-ANG2**, filing to comply with Part 2, Part 22, and Part 90 of the Federal Communication Commission rules.

2.4 TEST METHODOLOGY

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 22	Public Mobile Services
2	FCC 47 CFR Part 90	Private Land Mobile Radio Services
3	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
4	ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
5	KDB 971168 D01	KDB 971168 D01 Power Meas License Digital Systems v03r01
6	KDB 579009 D03	KDB 579009 D03 Applications Part 90 Refarming Bands v01
7	KDB 634817 D01	KDB 634817 D01 Freq Range Listing for Grants v04r01

2.5 CALCULATION OF EMISSION INDICATORS

FCC Rules and Regulations Part 2.202: Necessary Bandwidth and Emission Bandwidth

For FM Mode (ChannelSpacing: 12.5kHz)

Emission Designator 11K0F3E

In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

BW = 2(M+D) = 2*(3.0 kHz + 2.5 kHz) = 11 kHz = 11K0

F3E portion of the designator represents an FM voice transmission.

Therefore, the entire designator for 12.5 kHz channel spacing FM mode is 11K0F3E.

For FM Mode (Channel Spacing: 25kHz)

Emission Designator 16K0F3E

In this case, the maximum modulating frequency is 3.0 kHz with a 5.0 kHz deviation.

BW = 2(M+D) = 2*(3.0 kHz + 5.0 kHz) = 16 kHz = 16K0

F3E portion of the designator represents an FM voice transmission.

Therefore, the entire designator for 25 kHz channel spacing FM mode is 16K0F3E.

For Digital Mode (Channel Spacing: 12.5 kHz)

Emission Designator 7K60F1D and 7K60F1W

The 99% energy rule was used for digital mode. It basically states that 99% of the modulation energy falls within X kHz, in this case, 7.60 kHz.

F1D and F1W portion of the designator indicates digital information.

Therefore, the entire designator for 12.5 kHz channel spacing digital mode is 7K60F1D and 7K60F1W.

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Page 9 of 49

2.6 SPECIAL ACCESSORIES

Not available for this EUT intended for grant.

2.7 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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Page 10 of 49

3. TEST ENVIRONMENT

3.1 ADDRESS OF THE TEST LABORATORY

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

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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Page 11 of 49

3.3 ENVIRONMENTAL CONDITIONS

	NORMAL CONDITIONS	EXTREME CONDITIONS	
Temperature range (°C)	15 - 35	-20 - 50	
Relative humidty range	20 % - 75 %	20 % - 75 %	
Pressure range (kPa)	86 - 106	86 - 106	
Power supply	DC 7.4V	LV:DC 6.29V/HV:DC 8.51V	

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

3.4 MEASUREMENT UNCERTAINTY

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

Test Items	Measurement Uncertainty		
Frequency stability	±0.5%		
Transmitter power conducted	±0.8dB		
Transmitter power Radiated	±1.3dB		
Conducted spurious emission 9kHz-40 GHz	±2.7dB		
Conducted Emission	±3.2 dB		
Radiated Emission below 1GHz	±3.9 dB		
Radiated Emission above 1GHz	±4.8 dB		
Occupied Channel Bandwidth	±2 %		
FM deviation	±2 %		
Audio level	±0.98dB		
Low Pass Filter Response	±0.65dB		
Modulation Limiting	0.42 %		
Transient Frequency Behavior	6.8 %		

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Page 12 of 49

3.5 LIST OF EQUIPMENTS USED

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096		
	Ras	E301	10090	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9020A	W1312-60196	Aug. 21, 2020	Aug. 20, 2021
EXA Signal Analyzer	Aglient	N9020A	MY52090123	Sep. 03, 2020	Sep. 02, 2021
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.16, 2019	Sep.15, 2021
preamplifier	ChengYi	EMC184045SE	980508	Sep. 23, 2019	Sep. 22, 2021
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun. 07, 2021	Jun. 06, 2022
HORN ANTENNA	EM	EM-AH-10180	/	Feb.26, 2021	Feb.25, 2022
SIGNAL GENERATOR	AGILENT	E4421B	MY43351603	May 11, 2021	May 10, 2022
SIGNAL GENERATOR	R&S	SMT03	A0304261	Jun. 07, 2021	Jun. 06, 2022
ANTENNA	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 08, 2021	Jan. 07, 2023
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 20, 2019	Sep. 19, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Modulation Domain Analyzer	HP	53310A	3121A02467	Aug. 26, 2020	Aug. 25, 2021
Small environmental tester	ESPEC	SH-242) G	Sep. 03, 2020	Sep. 02, 2022
RF Communication Test Set	НР	8920B	US35010261	Sep. 03, 2020	Sep. 02, 2021
Attenuator	Weinachel Corp	58-30-33	ML030	Oct. 26, 2020	Oct. 25, 2021
RF Cable	R&S	1#	- 0	Each time	N/A
RF Cable	R&S	2#	o	Each time	N/A
Fliter-UHF	Microwave	N25155M2	498705	May 09, 2021	May 08, 2022
Fliter-VHF	Microwave	N26460M1	498703	May 09, 2021	May 08, 2022

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Page 13 of 49

4.SYSTEM TEST CONFIGURATION

4.1 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.

4.2 EUT EXERCISE

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

4.3 CONFIGURATION OF TESTED SYSTEM

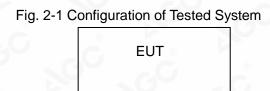


Table 2-1 Equipment Used in Tested System

4.4 EQUIPMENT USED IN TESTED SYSTEM

The Following Peripheral Devices And Interface Cables Were Connected During The Measurement:

Test Accessories Come From The Manufacturer

Item	Equipment	Model No.	Identifier	Note
1	Analog Transceiver	TC-19	FCC ID: POD-ANG2	EUT
2	Battery	BATT-19	DC 7.4V 2000mAh	Accessories
3	Adapter	DLD-418	Input: AC 100-240V 0.2A Output DC 12V 0.5A	Accessories
4	Back clip	N/A	N/A	Accessories
5	Charger	N/A	Input: DC 12V 0.5A Output DC 4.2V.0.5A	Accessories

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Page 14 of 49

4.5 SUMMARY OF TEST RESULTS

Item	FCC Rules	Description Of Test	Result
1	FCC 47 CFR PART 90/22	Antenna Equipment	Pass
2	§90.205&22.565& 2.1046	Maximum Transmitter Power	Pass
3	§90.207& 2.1047	Modulation Characteristic	Pass
4	§2.1047	Audio Low Pass Filter Response	Pass
5	§90.209& 22.359& 2.1049	Occupied Bandwidth	Pass
6	§90.210& 22.359& 2.1049	Emission Mask	Pass
7	§90.213& 22.355& 2.1055	Frequency Tolerance	Pass
8	§90.214	Transmitter Frequency Behavior	Pass
9	§90.210&22.359& 2.1051	Spurious Emission on Antenna Port	Pass
10	§90.210&22.359& 2.1053	Spurious Ratiated Emission	Pass

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Page 15 of 49

5.DESCRIPTION OF TEST MODES

The EUT (**Two-way radio**) has been tested under normal operating condition. (The top channel, the middle channel and the bottom channel) are chosen for testing at each channel separation.

NO.	TEST MODE DESCRIPTION	CHANNEL SEPARATION
1	TX Bottom channel-UHF	12.5 kHz
2	TX Middle channel-UHF	12.5 kHz
3	TX Middle channel-UHF	12.5 kHz
4	TX Top channel-UHF	12.5 kHz

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- The battery is full-charged during the test.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 4. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
- 5. Manufacturers use computer PC programming software to switch and operate frequency points, refer to the instructions for details

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Page 16 of 49

6.FREQUENCY TOLERANCE

6.1 PROVISIONS APPLICABLE

- a). According to FCC §2.1055, § 22.355 and §90.213, the frequency stability shall be measured with variation of ambient temperature from -30° C to $+50^{\circ}$ C centigrade.
- b). According to FCC Part 2 Section 2.1055(d)(2), for battery powered equipment, the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point, which is specified by the manufacturer.
- c). According to FCC Part 90 Section 90.213, the frequency tolerance must be maintained within 0.00025% for 12.5 kHz channel separation and 0.0001% for 6.25 kHz channel separation.
- d). According to FCC Part 22 Section 22.355, Frequency error must be kept within plus or minus 5ppm.

6.2 MEASUREMENT PROCEDURE

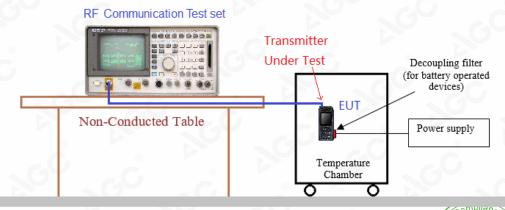
6.2.1 Frequency stability versus environmental temperature

- 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℃ decreased per stage until the lowest temperature -30℃ is measured, record all measured frequencies on each temperature step.

6.2.2 Frequency stability versus input voltage

- 1. Setup the configuration per figure 1 for frequencies measured at temperature if it is within 15℃ to 25℃. Otherwise, an environment chamber set for a temperature of 20℃ shall be used. The EUT shall be powered by DC 7.4V.
- 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.

6.3 MEASUREMENT SETUP



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Page 17 of 49

6.4 MEASUREMENT RESULTS

	12.5 kHz Ch	annel Separa	ation, Analog	modulation,	Assigned Fre	quency For	UHF-2W	
Test c	onditions		Freq	uency error ((ppm)			
Voltage	Temp		Limit (ppm)	Result				
(V)	(℃)	406.125	453.2125	454.025	458.2125	479.975	(ββ)	
	-30	0.757	0.653	0.678	0.425	0.862	90	-0
8	-20	0.609	0.670	0.598	0.332	0.989		
	-10	0.726	0.559	0.898	0.895	0.535	©	
	0	0.547	0.641	1.093	0.872	0.349		
7.40	10	1.052	0.740	0.812	0.813	0.935		
	20	0.652	0.936	0.621	0.957	0.594	5	Pass
	30	1.010	0.650	0.830	0.442	0.593		
	40	0.881	0.505	0.832	0.897	0.608		
- 6	50	0.972	0.727	0.558	0.910	0.383		
8.51	20	1.023	0.821	0.985	0.682	0.553	8	
6.29	20	0.518	0.990	0.925	0.361	0.673	G	

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Page 18 of 49

7. EMISSION BANDWIDTH

7.1 PROVISIONS APPLICABLE

FCC Part 90.209 & FCC Part 22.359& FCC Part 2.1049:

The authorized bandwidth shall be 11.25 kHz for 12.5 kHz channel separation and 6 kHz for 6.25 kHz channel separation.

7.2 MEASUREMENT PROCEDURE

1.The EUT was modulated by 2.5kHz sine wave audio signal; the level of the audio signal employed is 16dB greater than that necessary to produce 50% of rated system deviation.

Rated system deviation is 2.5 kHz for 12.5kHz channel spacing).

2.Spectrum set as follow:

Centre frequency = fundamental frequency, span=50kHz for 12.5kHz channel spacing, RBW=100Hz, VBW=300Hz, Sweep = auto,

Detector function = peak, Trace = max hold

- 3.Set 99% Occupied Bandwidth and 26dB Occupied Bandwidth.
- 4. Measure and record the results in the test report.

7.3 MEASUREMENT SETUP



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Page 19 of 49

7.4 MEASUREMENT RESULTS

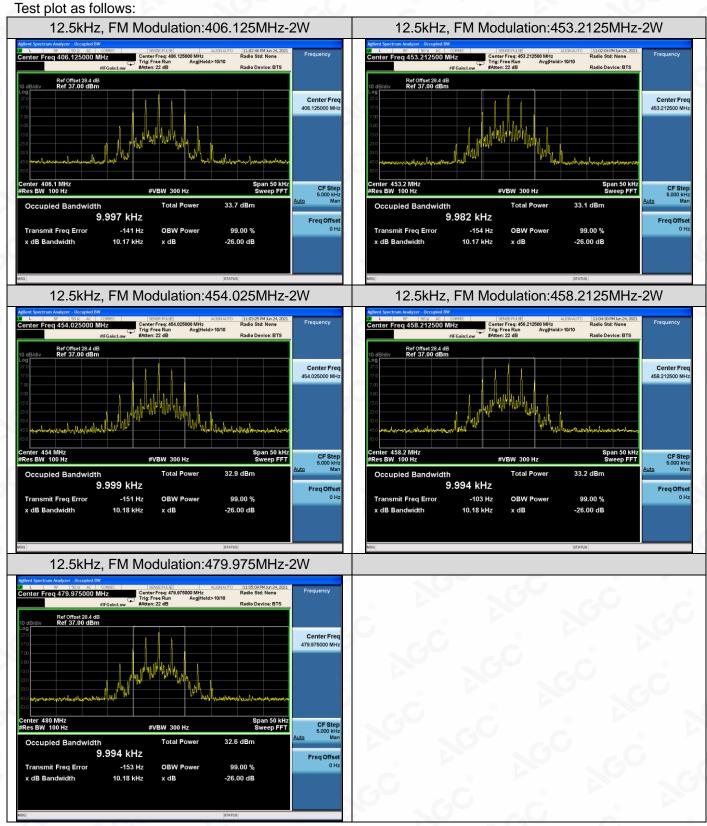
Measurement Result of UHF-Analog Modulation-2W										
Operating Frequency	12.5 kHz Channel Separation									
	Occupied Bandwidth	Emission Bandwidth	Limits	Result						
406.125MHz	9.997 kHz	10.17 kHz	11.25 kHz	Pass						
453.2125MHz	9.982 kHz	10.17 kHz	11.25 kHz	Pass						
454.025MHz	9.999 kHz	10.18 kHz	11.25 kHz	Pass						
458.2125MHz	9.994 kHz	10.18 kHz	11.25 kHz	Pass						
479.975MHz	9.994 kHz	10.18 kHz	11.25 kHz	Pass						

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Report No.: AGC02931210603FE10 Page 20 of 49

Toot plot on follows:



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Page 21 of 49

8. SPURIOUS RATIATED EMISSION

8.1 PROVISIONS APPLICABLE

According to FCC §2.1053 §22.359 and §90.210, the power of each unwanted emission shall be less than Transmitted Power as specified below for transmitters designed to operate with each channel separation. Emission Mask D -for 12.5 kHz Channel Separation:

- (1) On any frequency removed from the center of the authorized bandwidth fo to 5.625 kHz removed from fo: Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement Frequency (fd in kHz) fo of more than 5.625 kHz but no more than 12.5 kHz: At least 7.27(fd-2.88 kHz) dB
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement Frequency (fd in kHz)fo of more than 12.5 kHz: At least 50+10 log(P) dB or 70 dB, whichever is lesser attenuation.

According to FCC §22.359:

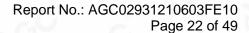
(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

8.2 MEASUREMENT PROCEDURE

- (1) On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall than be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by 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.

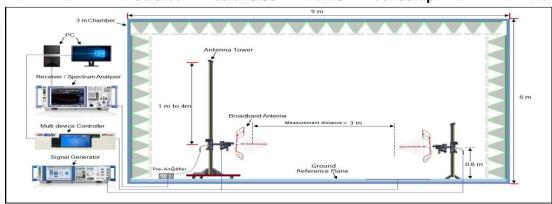
8.3 MEASUREMENT SETUP

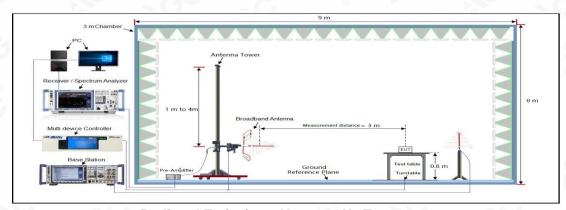
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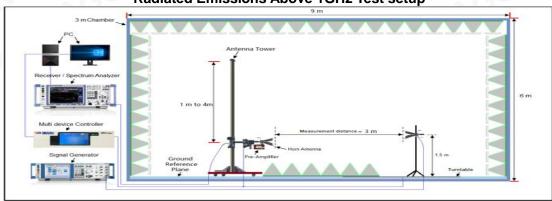


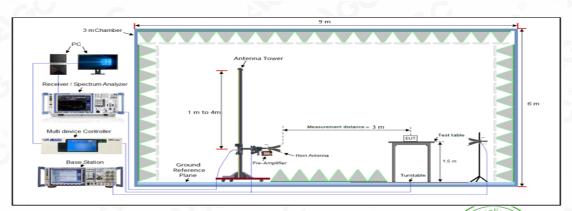
Radiated Emissions 30MHz to 1GHz Test setup





Radiated Emissions Above 1GHz Test setup





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Page 23 of 49

8.4 MEASUREMENT RESULTS

The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz for below 1GHz, and 1MHz for above 1GHz. Sufficient scans were taken to show any out of band emissions up to 10 harmonic.

In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m 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.

The substitution antenna is substituted for DUT 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.

EIRP = "Read Value" + Measured substitution value + 2.15.

Test limit calculation:

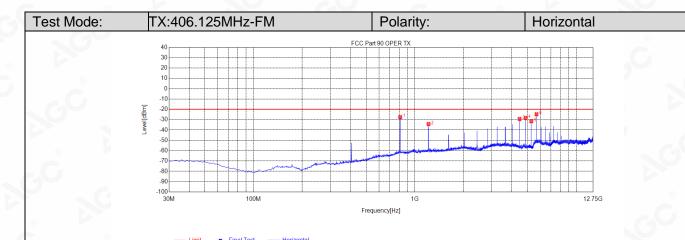
Preliminary calculation	Final Result				
At least 50+10 log (P) =50+10log (2) =53.01 (dB)	Limit=P- Preliminary calculation=33.01-53.01=-20 dBm				
At least 43+10 log (P) =43+10log (2) =46.01 (dB)	Limit=P- Preliminary calculation=33.01-46.01=-13 dBm				

Note: In this case, Part 22 (-13 dBm) is less than the limit of Part 90 (-20 dBm), so we do not need to test Part 22, which meets the spurious limits of PART 90+22.

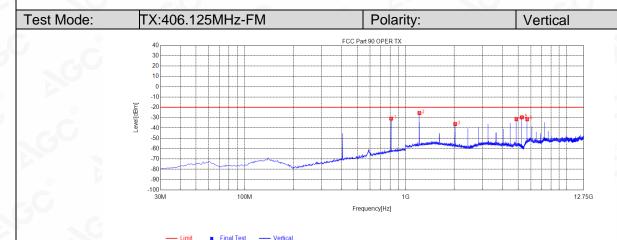
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Page 24 of 49



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	812.7900	-67.82	-27.46	-20.00	7.46	40.36	90	Horizontal
2	1218.5719	-27.49	-34.29	-20.00	14.29	-6.80	359	Horizontal
3	4467.7718	-29.89	-29.33	-20.00	9.33	0.56	34	Horizontal
4	4873.1873	-29.05	-28.38	-20.00	8.38	0.67	43	Horizontal
5	5279.7780	-35.09	-31.45	-20.00	11.45	3.64	81	Horizontal
6	5686.3686	-31.33	-24.71	-20.00	4.71	6.62	129	Horizontal

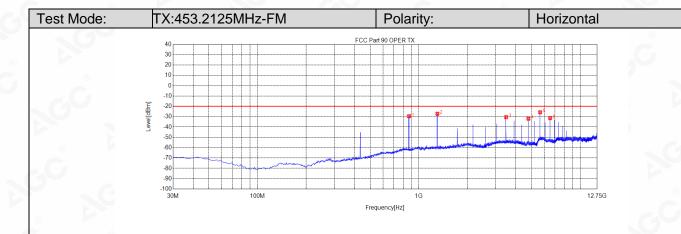


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	812.7900	-70.40	-30.91	-20.00	10.91	39.49	1	Horizontal
2	1217.3967	-22.77	-25.49	-20.00	5.49	-2.72	157	Horizontal
3	2030.5781	-33.46	-36.14	-20.00	16.14	-2.68	166	Horizontal
4	4873.1873	-32.10	-31.41	-20.00	11.41	0.69	250	Horizontal
5	5279.7780	-31.77	-29.65	-20.00	9.65	2.12	203	Horizontal
6	5686.3686	-36.36	-31.47	-20.00	11.47	4.89	213	Horizontal

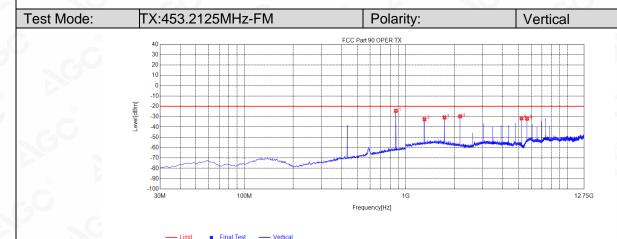
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Page 25 of 49



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	870.9900	-69.61	-29.53	-20.00	9.53	40.08	92	Horizontal
2	1305.5306	-20.53	-27.15	-20.00	7.15	-6.62	74	Horizontal
3	3480.6731	-31.59	-30.44	-20.00	10.44	1.15	333	Horizontal
4	4785.0535	-32.54	-31.91	-20.00	11.91	0.63	46	Horizontal
5	5655.8156	-32.24	-25.73	-20.00	5.73	6.51	128	Horizontal
6	6525.4025	-39.89	-31.33	-20.00	11.33	8.56	194	Horizontal

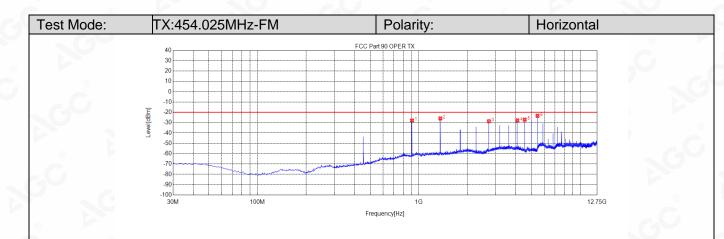


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	870.0200	-64.39	-24.36	-20.00	4.36	40.03	194	Vertical
2	1306.7057	-30.29	-32.41	-20.00	12.41	-2.12	185	Vertical
3	1740.3240	-29.05	-30.73	-20.00	10.73	-1.68	176	Vertical
4	2175.1175	-26.54	-29.66	-20.00	9.66	-3.12	158	Vertical
5	5221.0221	-33.42	-31.56	-20.00	11.56	1.86	212	Vertical
6	5655.8156	-36.51	-31.92	-20.00	11.92	4.59	203	Vertical

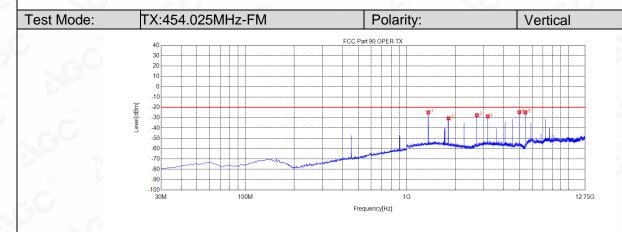
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Page 26 of 49



	NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
	1	908.8200	-67.99	-27.86	-20.00	7.86	40.13	119	Horizontal
1	2	1361.9362	-19.38	-25.88	-20.00	5.88	-6.50	231	Horizontal
	3	2723.8974	-26.29	-28.61	-20.00	8.61	-2.32	138	Horizontal
	4	4087.0337	-29.30	-27.77	-20.00	7.77	1.53	36	Horizontal
2	5	4540.6291	-27.54	-27.04	-20.00	7.04	0.50	45	Horizontal
7	6	5448.9949	-28.70	-23.31	-20.00	3.31	5.39	128	Horizontal

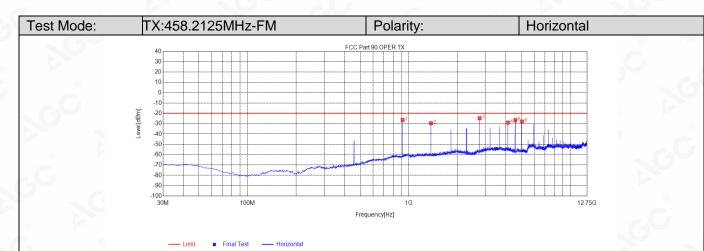


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1361.9362	-23.10	-24.86	-20.00	4.86	-1.76	174	Vertical
2	1816.7067	-28.63	-30.58	-20.00	10.58	-1.95	184	Vertical
3	2723.8974	-25.39	-27.55	-20.00	7.55	-2.16	146	Vertical
4	3178.6679	-28.90	-28.74	-20.00	8.74	0.16	146	Vertical
5	4994.2244	-25.63	-24.74	-20.00	4.74	0.89	291	Vertical
6	5448.9949	-27.72	-24.86	-20.00	4.86	2.86	202	Vertical

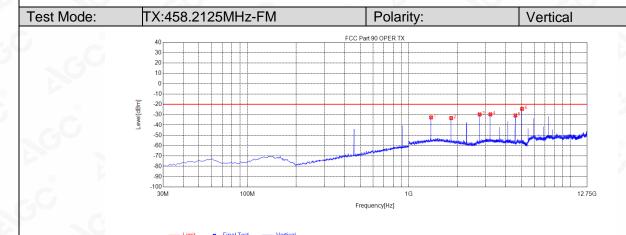
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N	10.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
	1	917.5500	-66.64	-26.32	-20.00	6.32	40.32	126	Horizontal
	2	1374.8625	-23.05	-29.52	-20.00	9.52	-6.47	237	Horizontal
	3	2749.7500	-22.62	-24.70	-20.00	4.70	-2.08	154	Horizontal
	4	4124.6375	-30.33	-28.90	-20.00	8.90	1.43	33	Horizontal
	5	4581.7582	-27.08	-26.56	-20.00	6.56	0.52	42	Horizontal
	6	5040.0540	-28.95	-27.80	-20.00	7.80	1.15	220	Horizontal

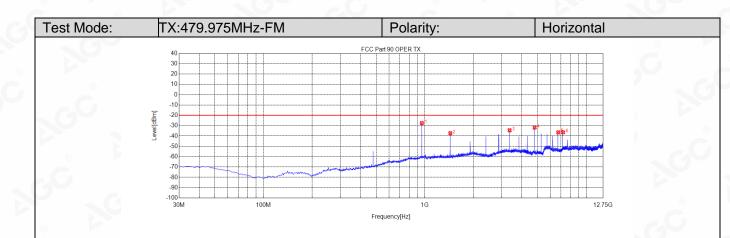


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1376.0376	-30.99	-32.65	-20.00	12.65	-1.66	157	Vertical
2	1833.1583	-31.26	-33.27	-20.00	13.27	-2.01	92	Vertical
3	2749.7500	-27.81	-29.75	-20.00	9.75	-1.94	148	Vertical
4	3208.0458	-29.84	-29.69	-20.00	9.69	0.15	148	Vertical
5	4581.7582	-30.95	-30.75	-20.00	10.75	0.20	138	Vertical
6	5040.0540	-25.48	-24.41	-20.00	4.41	1.07	306	Vertical

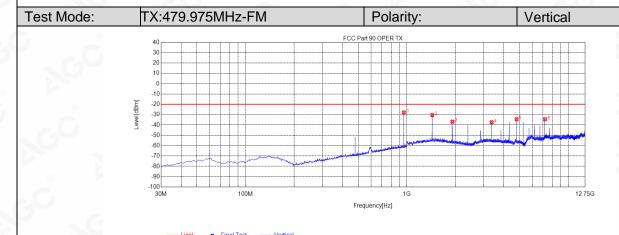
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Report No.: AGC02931210603FE10 Page 28 of 49



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	960.2300	-68.76	-27.51	-20.00	7.51	41.25	128	Horizontal
2	1440.6691	-30.95	-37.28	-20.00	17.28	-6.33	63	Horizontal
3	3359.6360	-35.39	-34.46	-20.00	14.46	0.93	333	Horizontal
4	4800.3300	-32.46	-31.82	-20.00	11.82	0.64	54	Horizontal
5	6719.2969	-45.04	-36.44	-20.00	16.44	8.60	193	Horizontal
6	7199.9200	-45.88	-36.42	-20.00	16.42	9.46	239	Horizontal



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity			
1	960.2300	-68.79	-27.87	-20.00	7.87	40.92	10	Vertical			
2	1440.6691	-29.19	-30.42	-20.00	10.42	-1.23	240	Vertical			
3	1920.1170	-34.47	-36.78	-20.00	16.78	-2.31	185	Vertical			
4	3359.6360	-37.49	-37.39	-20.00	17.39	0.10	129	Vertical			
5	4800.3300	-34.99	-34.43	-20.00	14.43	0.56	157	Vertical			
6	7199.9200	-44.29	-34.45	-20.00	14.45	9.84	157	Vertical			

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Page 29 of 49

8.5 EMISSION MASK PLOT

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

- -Connect the equipment as illustrated.
- -Spectrum set as follow:
- Centre frequency = fundamental frequency, Span=50kHz for 12.5kHz and 25kHz channel spacing, RBW=100Hz, VBW=300Hz for 12.5kHz, RBW=300Hz, VBW=1000Hz for 25kHz, Sweep = auto, Detector function = peak, Trace = max hold
- 2. Key the transmitter, and set the level of the unmodulated carrier to a fullscale reference line. This is the 0dB reference for the measurement.
- 3. Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation (Rated system deviation is 2.5 kHz for 12.5kHz channel spacing).
 The input level shall be established at the frequency of maximum response of the audio modulating circuit.
- 4. Transmitters employing digital modulation techniques that bypass the limiter and the audio low-pass filter shall be modulated as specified by the manufacturer.
- 5. Measure and record the results in the test report.



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