

FCC Test Report

Report No.: AGC01284180106FE08

FCC ID : T4K-778UV
PRODUCT DESIGNATION : Dual Band Mobile Radio
BRAND NAME : AnyTone, Midland
TEST MODEL : AT-778UV, DBR2500, AT-778UVII, AT-778UVP
CLIENT : Qixiang Electron Science & Technology Co., Ltd
DATE OF ISSUE : Jan. 12, 2018
STANDARD(S) : FCC Part 15 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	/	Jan. 12, 2018	Valid	Initial Release

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1. VERIFICATION OF COMPLIANCE

Applicant	Qixiang Electron Science & Technology Co., Ltd
Address	Qixiang Building,Tangxi Industrial Zone,Luojiang ,Quanzhou,Fujian,362011 China
Manufacturer	Qixiang Electron Science & Technology Co., Ltd
Address	Qixiang Building,Tangxi Industrial Zone,Luojiang ,Quanzhou,Fujian,362011 China
Product Designation	Dual Band Mobile Radio
Brand name	AnyTone, Midland
Test Model	AT-778UV
Serial Model	DBR2500, AT-778UVII, AT-778UVP
Serial Model Difference	All the same except for the model name and brand name.(Model AT-778UV, AT-778UVII, AT-778UVP of brand name is AnyTone, Model DBR2500 of brand name is Midland.)
Hardware Version	PQ801-1/2 C05BF90
Software Version	1.0
Measurement Procedure	ANSI C63.4: 2014
Date of test:	Jan. 10, 2018 to Jan. 12, 2018
Condition of Test Sample	Normal

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2014. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

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

Tested By

Steven Zhou

Steven Zhou(Zhou Pengyun) Jan. 12, 2018

Reviewed By

Bart Xie

Bart Xie(Xie Xiaobin) Jan. 12, 2018

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2. PRODUCT INFORMATION

The EUT is a Dual Band Mobile 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:

Communication Type	Voice / Tone only
Modulation	FM
RX Frequency Range	136 MHz -174 MHz & 400 MHz -490MHz
Emission Type	F3E
DC Power Cable Length	2m
Antenna Designation	Detachable
Antenna Gain	0dBi
Power Supply	DC 13.8V
Antenna Cable Length	2m

I/O Port Information (Applicable Not Applicable)

I/O Port of EUT			
I/O Port Type	Q'TY	Cable	Tested with
DC Input Port	1	2.0m, Unshielded	1
Antenna Connect Port	1	0	1
Hand-Operated Microphone Connect Port	1	0.5 m, Unshielded	1

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3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

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

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.18, 2017	May.17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018

ANTENNA CONDUCTED POWER FOR RECEIVERS

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
EXA Signal Analyzer	AGILENT	N9010A	MY53470504	Dec. 08, 2017	Dec. 07, 2018

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4. SUPPORT EQUIPMENT LIST

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Speaker	--	--	--	--	0.8m
Car battery	SAIL	356A	--	--	0.8m
Power Supply	Mascot	10Amp	--	--	0.8m

5. SYSTEM DESCRIPTION

EUT test procedure:

1. Connect EUT and peripheral devices.
2. Power on the EUT, the EUT begins to work.
3. Running data transmission and make sure the EUT normal working.

EMC TEST MODES

No.	TEST MODES
1	Scanning mode + Receiving mode
2	No scanning mode

Note:

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

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6. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.107	Conduction Emission	Compliant
§15.109	Radiated Emission	Compliant
§15.111	Antenna Conducted Power for receivers	Compliant

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7. FCC RADIATED EMISSION TEST

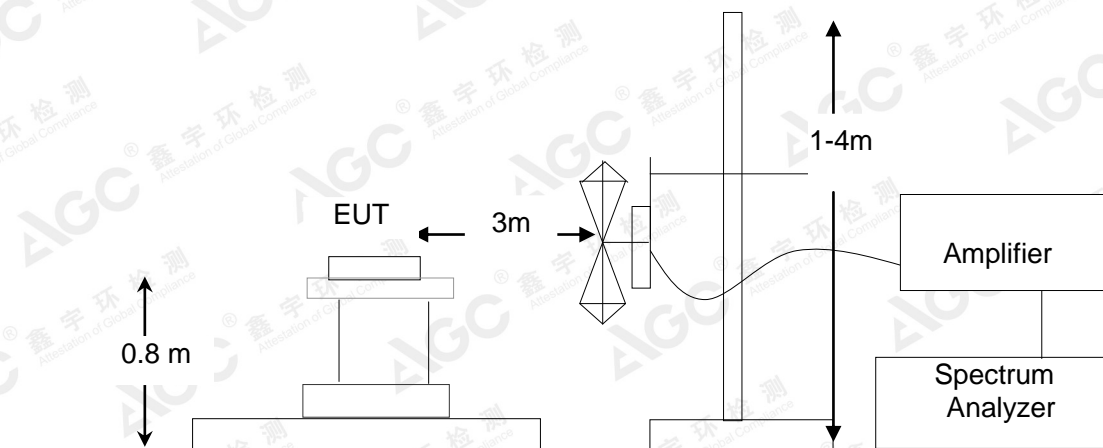
7.1. TEST EQUIPMENT OF RADIATED EMISSION

7.2. LIMITS OF RADIATED EMISSION TEST

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m/ Q.P.)
30~88	3	40.0
88~216	3	43.5
216~960	3	46.0
Above 960	3	54.0

**Note: The lower limit shall apply at the transition frequency.

7.3 BLOCK DIAGRAM OF RADIATED EMISSION TEST



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7.4 PROCEDURE OF RADIATED EMISSION TEST

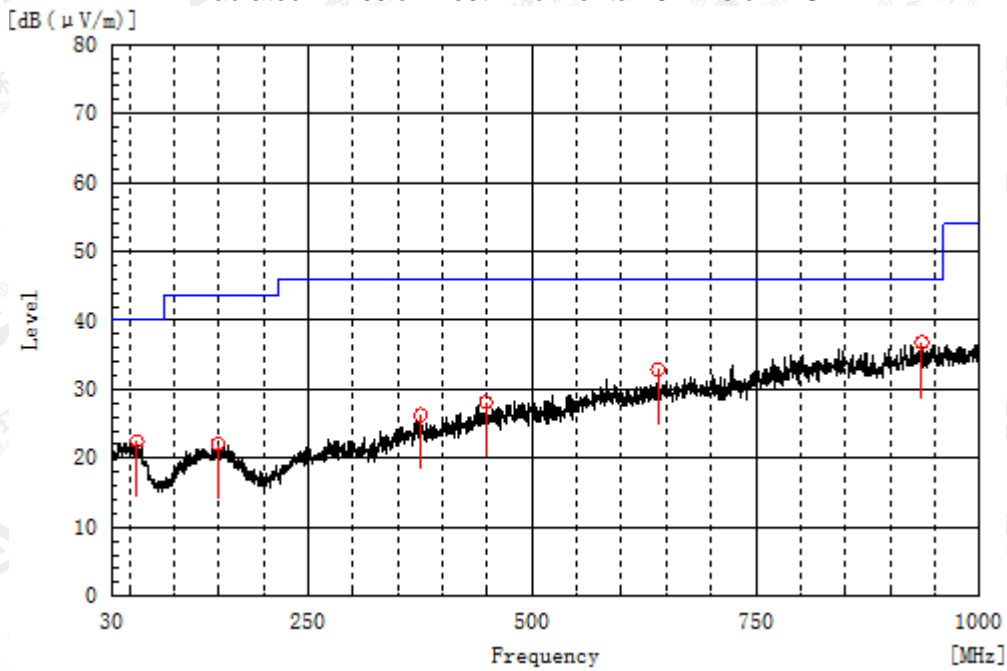
- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) The EUT received power by DC source. All support equipments received AC 120V/60Hz power from socket under the turntable, if any.
- 5) The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- 6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- 7) The test mode(s) were scanned during the test:
- 8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.

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

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7.5 TEST RESULT OF RADIATED EMISSION TEST

Radiated Emission Test –Horizontal -3m Below 1G

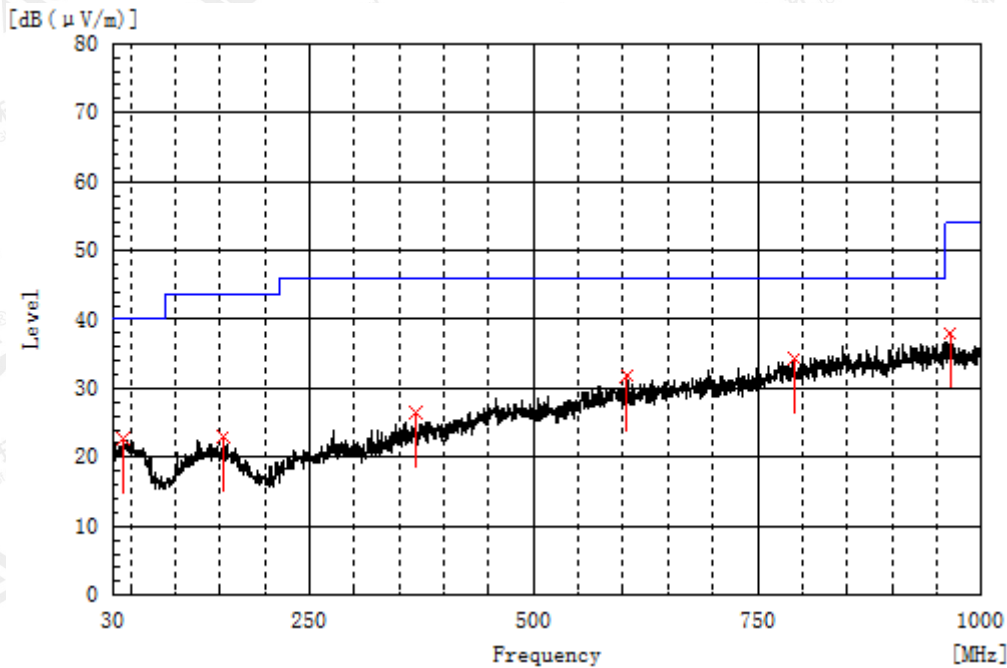


Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
58.130	H	6.1	16.4	22.5	40.0	17.5	Pass	200.0	1.5
148.340	H	5.5	16.6	22.1	43.5	21.4	Pass	100.0	287.8
375.320	H	6.4	19.9	26.3	46.0	19.7	Pass	200.0	91.2
448.070	H	6.2	22.0	28.2	46.0	17.8	Pass	100.0	32.6
640.615	H	7.4	25.5	32.9	46.0	13.1	Pass	150.0	287.9
935.495	H	6.3	30.5	36.8	46.0	9.2	Pass	200.0	55.4

RESULT: PASS

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Radiated Emission Test –Vertical -3m Below 1G



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
42.125	V	5.3	17.4	22.7	40.0	17.3	Pass	200.0	289.5
152.705	V	6.4	16.6	23.0	43.5	20.5	Pass	150.0	253.1
368.045	V	6.9	19.6	26.5	46.0	19.5	Pass	150.0	288.6
604.240	V	6.8	25.0	31.8	46.0	14.2	Pass	150.0	288.6
790.480	V	5.9	28.5	34.4	46.0	11.6	Pass	200.0	251.8
965.080	V	7.2	30.8	38.0	54.0	16.0	Pass	150.0	64.6

RESULT: PASS

- Note:** 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin = Limit-Measurement.
 2. The "Factor" value can be calculated automatically by software of measurement system.
 3. Emissions range from 1GHz to 2GHz have 20dB margin. No recording in the test report.
 4. Only the data of the worst case would be record in this test report.

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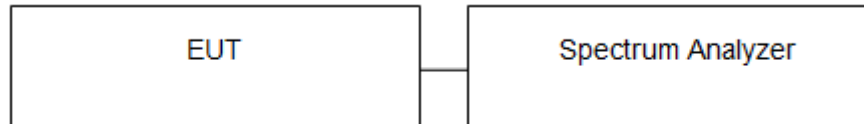
8. ANTENNA CONDUCTED POWER FOR RECEIVERS

LIMIT

The antenna conducted power of the receiver as defined in §15.111 shall not exceed the values given in the following tables

Frequency Range	9 KHz to 2GHz
Limit	2.0 nW (-57 dBm)

TEST CONFIGURATION



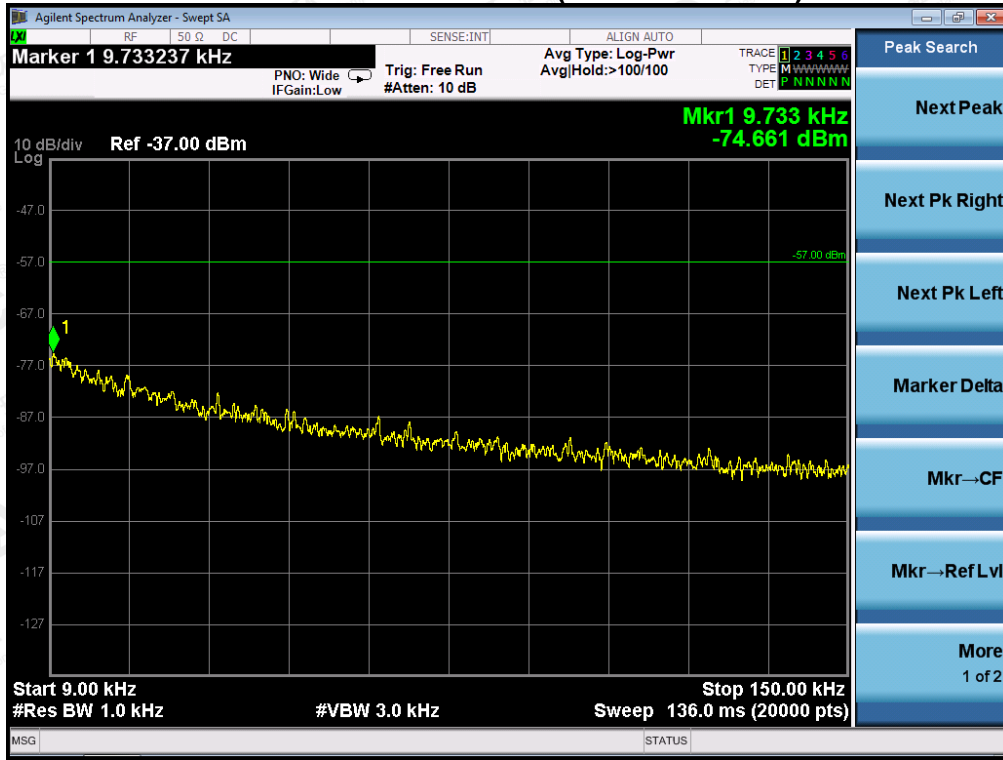
TEST PROCEDURE

1. The receiver antenna terminal connected to a spectrum analyzer.
2. The test data of condition (mode 1+ mode 2) was reported on the following Data page.

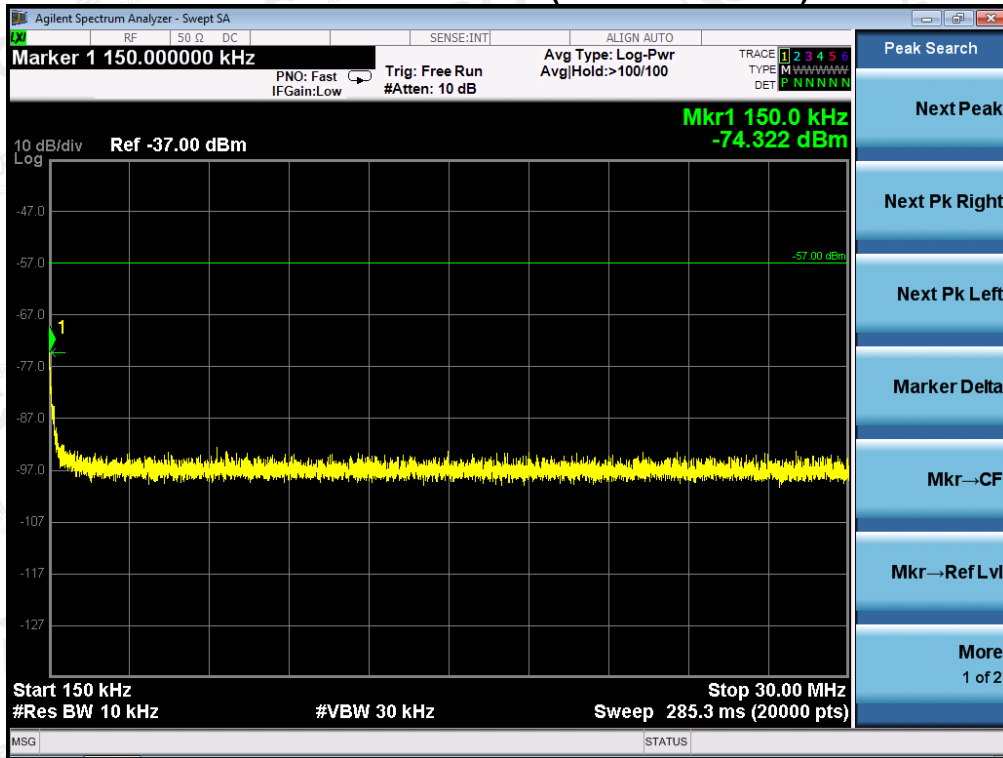
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TEST RESULTS (Mode 1)

Conducted Measurement (9 KHz to 150 KHz)

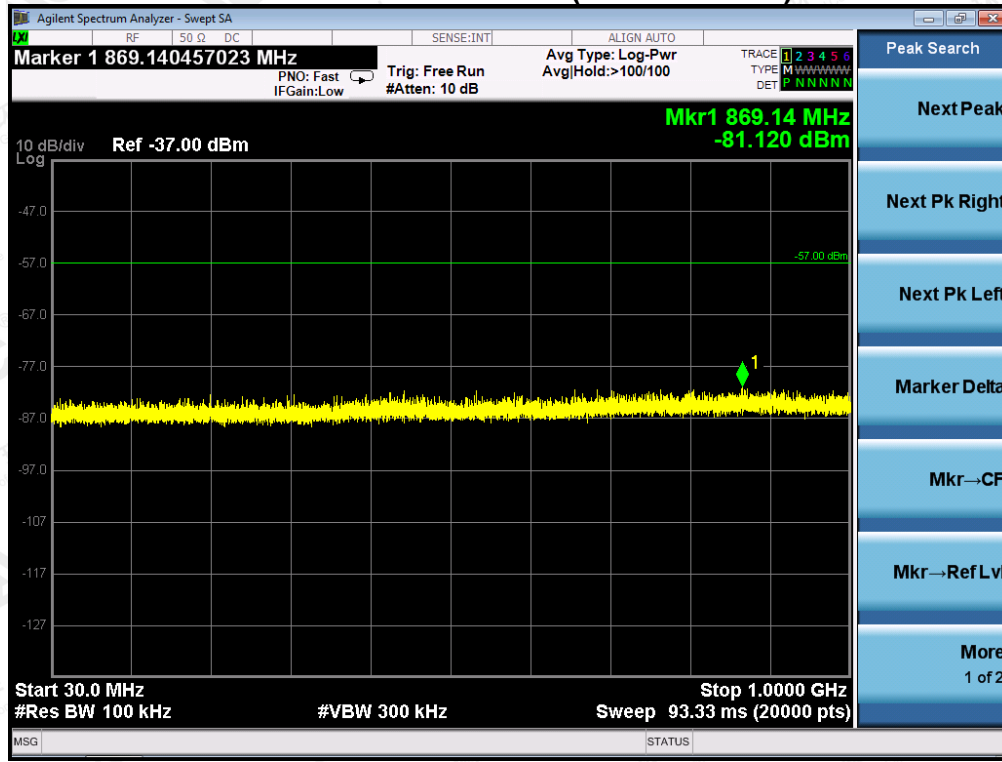


Conducted Measurement (150 KHz to 30MHz)

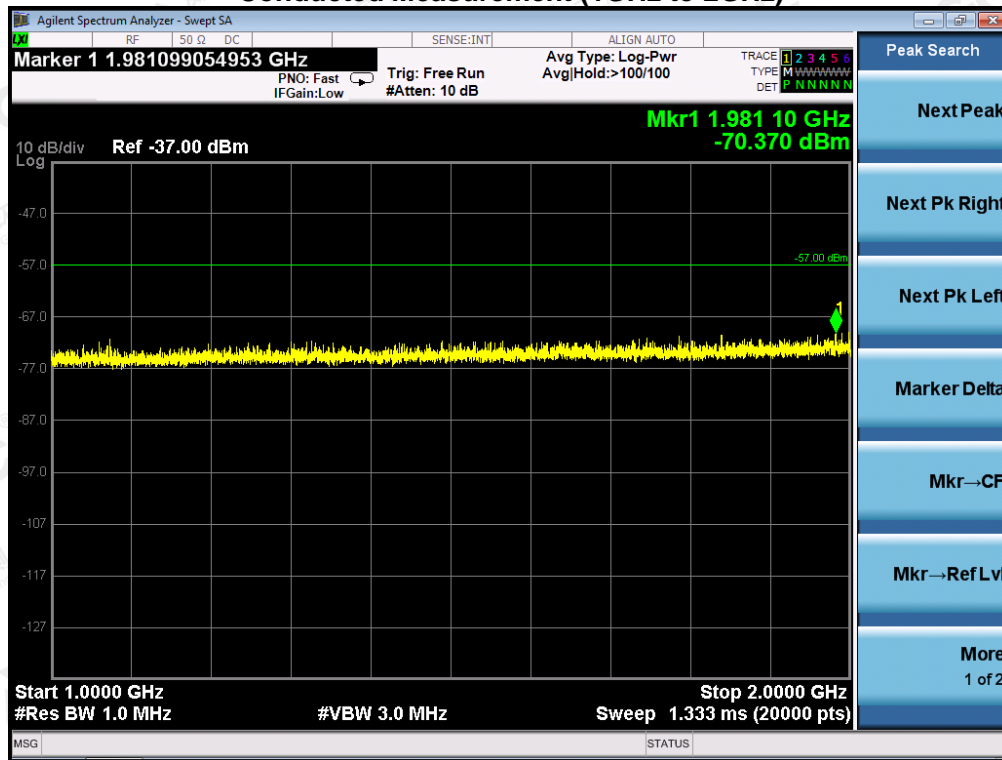


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Conducted Measurement (30MHz to 1GHz)



Conducted Measurement (1GHz to 2GHz)

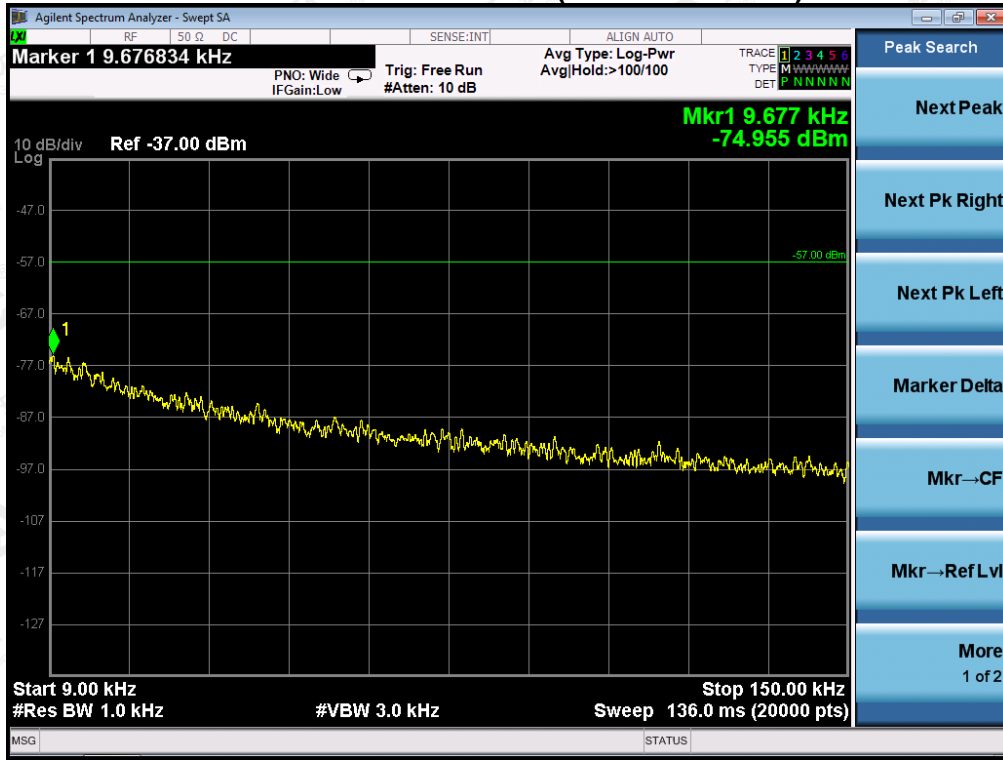


PASS

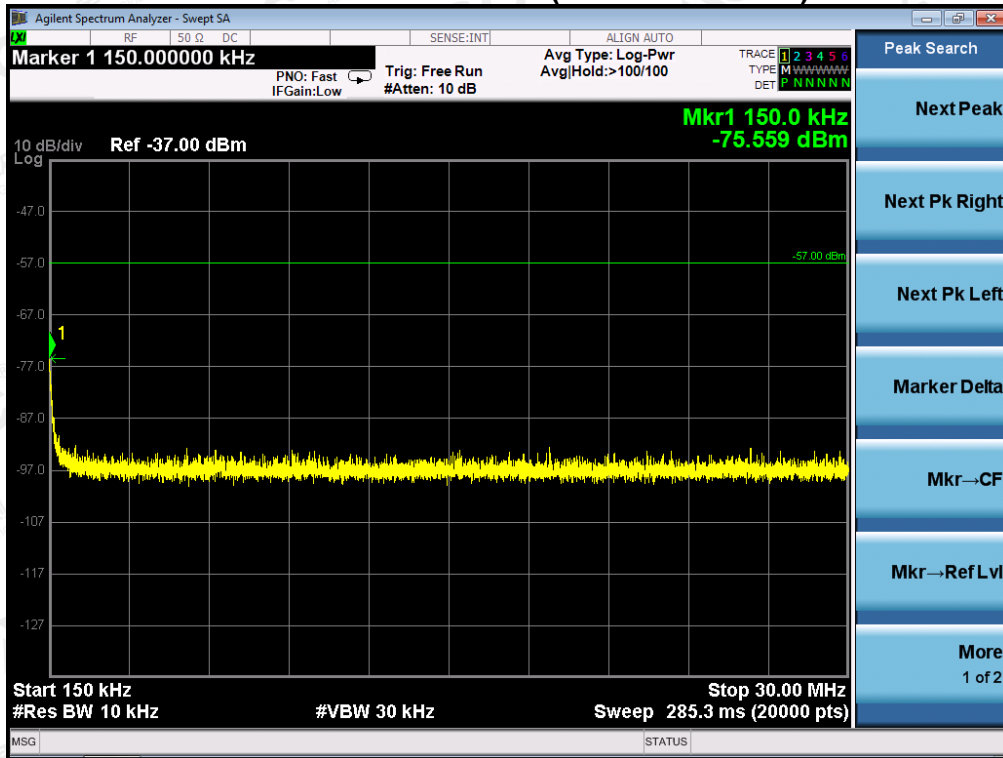
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TEST RESULTS (Mode 2)

Conducted Measurement (9 KHz to 150 KHz)

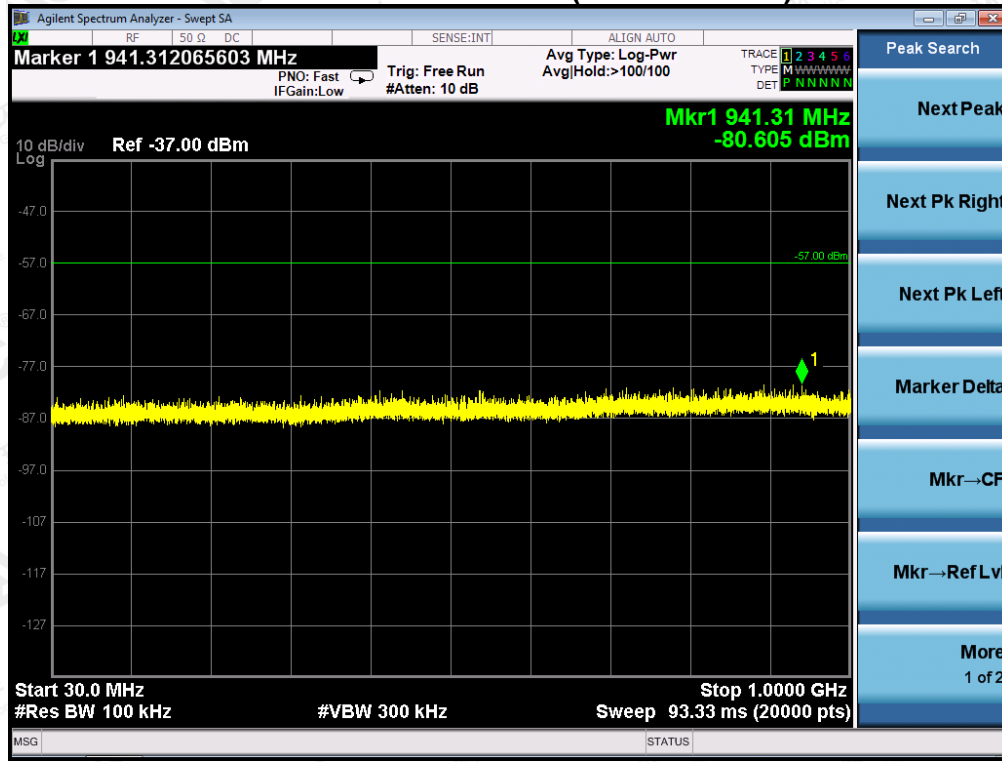


Conducted Measurement (150 KHz to 30MHz)

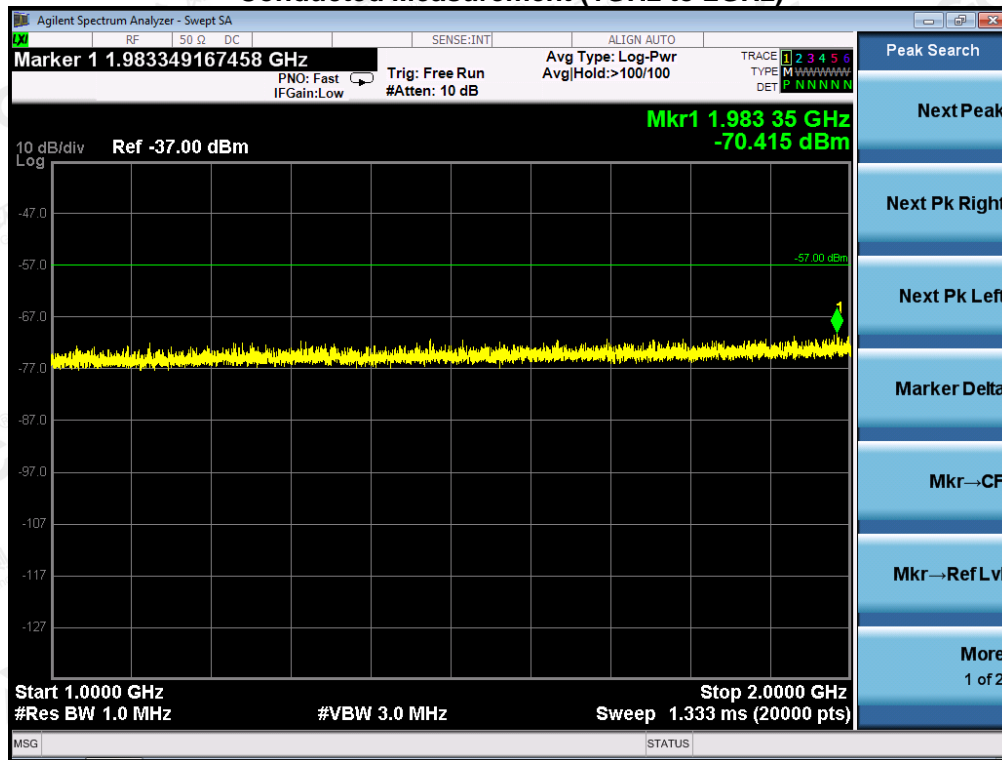


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Conducted Measurement (30MHz to 1GHz)



Conducted Measurement (1GHz to 2GHz)



PASS

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9. FCC LINE CONDUCTED EMISSION TEST

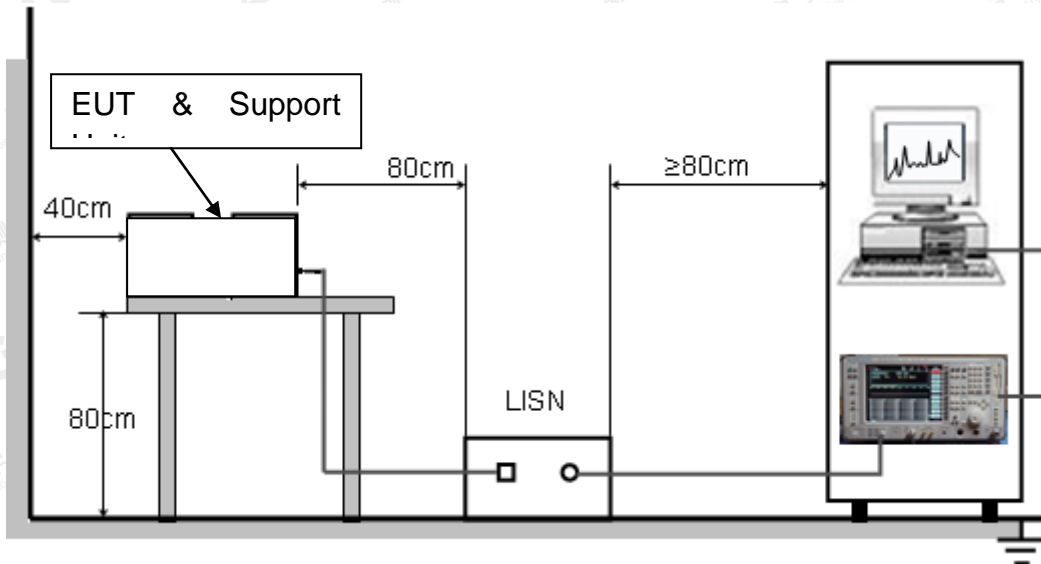
9.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

9.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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9.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

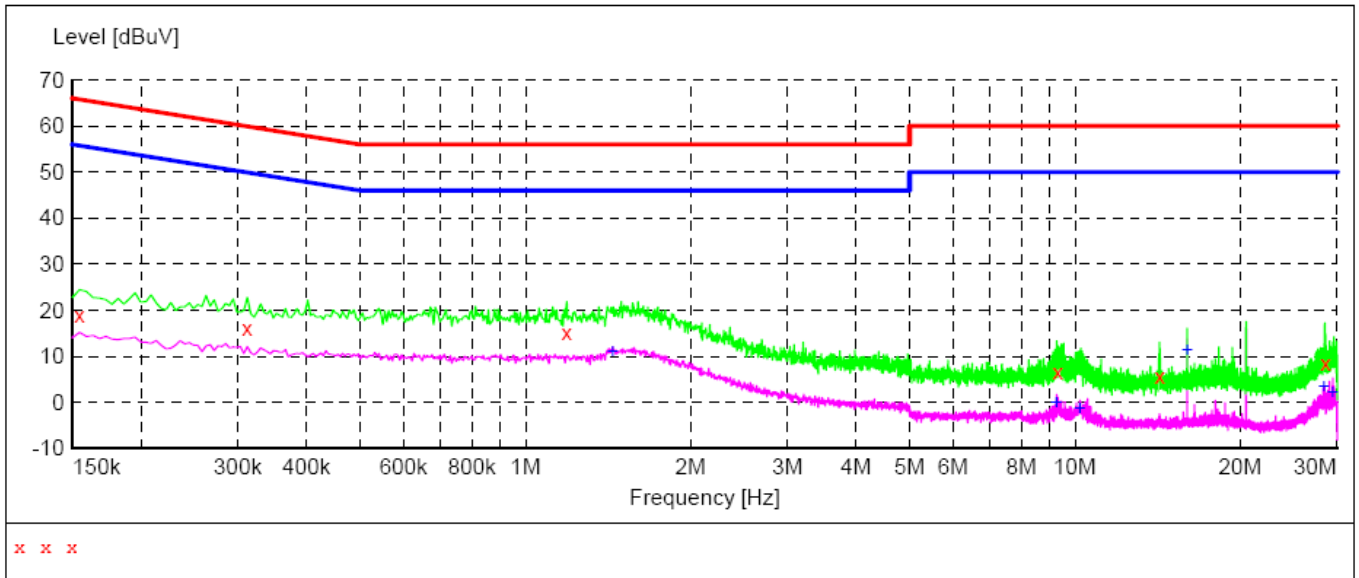
9.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

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9.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT:

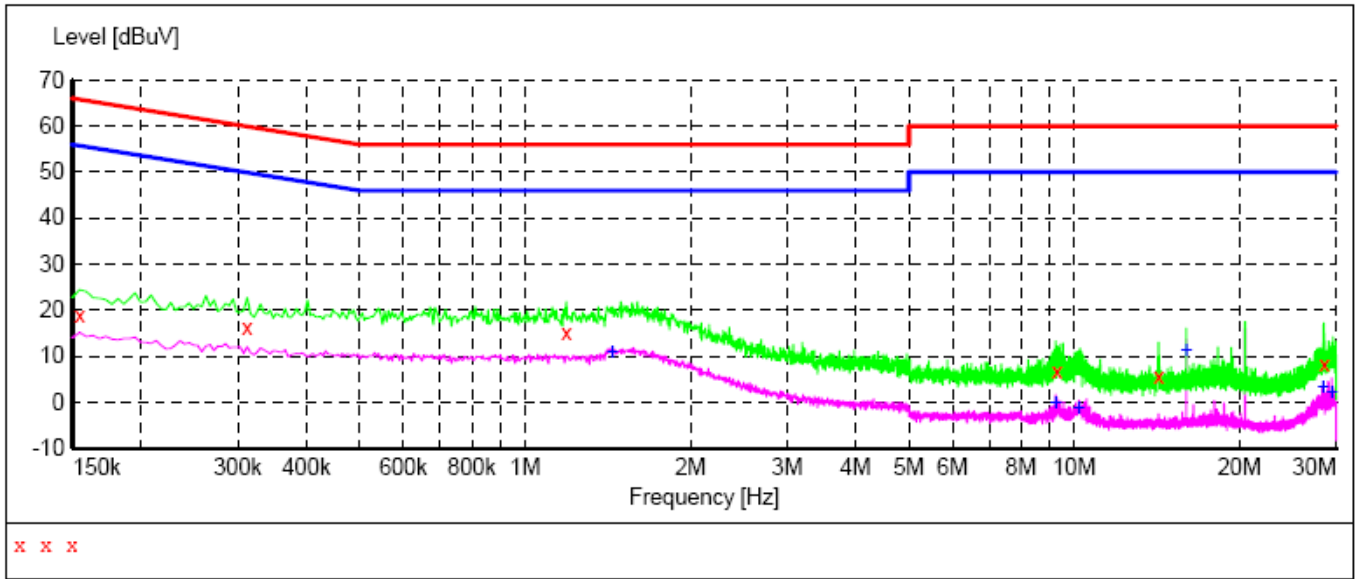
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector
0.154500	18.80	11.4	66	47.0	QP
0.312000	16.10	11.3	60	43.8	QP
1.189500	15.00	11.3	56	41.0	QP
9.303000	6.60	11.4	60	53.4	QP
14.262000	5.70	11.1	60	54.3	QP
28.576500	8.40	11.0	60	51.6	QP

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector
1.441500	11.00	11.3	46	35.0	AV
9.258000	-0.10	11.4	50	50.1	AV
10.212000	-1.20	11.4	50	51.2	AV
16.003500	11.20	11.0	50	38.8	AV
28.392000	3.30	11.0	50	46.7	AV
29.440500	2.10	11.1	50	47.9	AV

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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector
0.154500	18.80	11.4	66	47.0	QP
0.312000	16.10	11.3	60	43.8	QP
1.189500	15.00	11.3	56	41.0	QP
9.303000	6.60	11.4	60	53.4	QP
14.262000	5.70	11.1	60	54.3	QP
28.576500	8.40	11.0	60	51.6	QP

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector
1.441500	11.00	11.3	46	35.0	AV
9.258000	-0.10	11.4	50	50.1	AV
10.212000	-1.20	11.4	50	51.2	AV
16.003500	11.20	11.0	50	38.8	AV
28.392000	3.30	11.0	50	46.7	AV
29.440500	2.10	11.1	50	47.9	AV

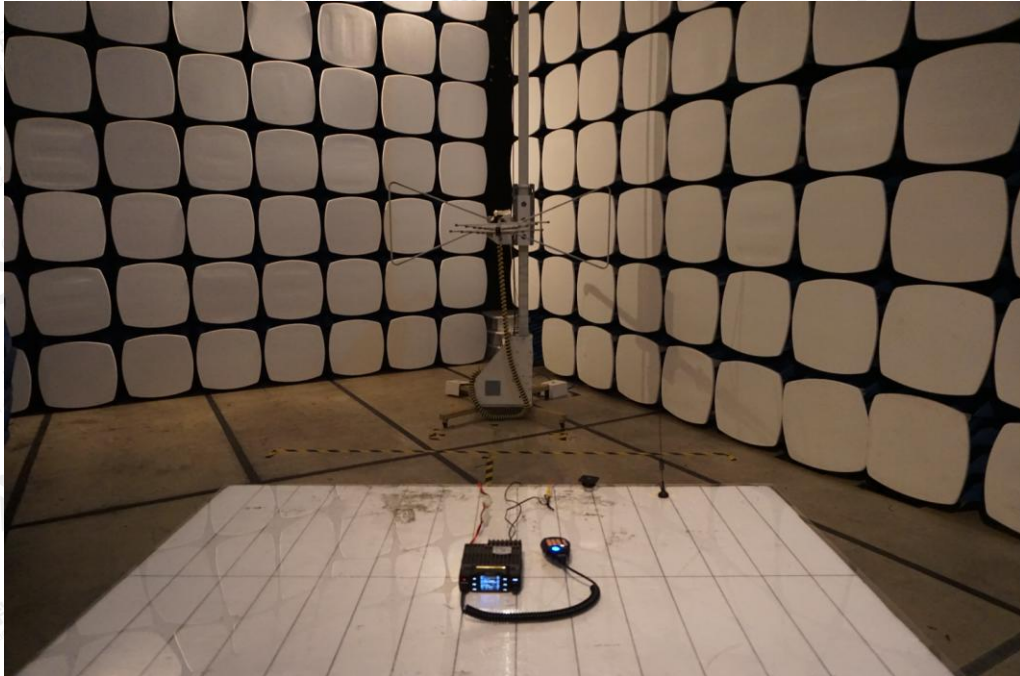
RESULT: PASS

Note: The mode 1 is the worst case, and only the data of the worst case recorded in this test report.

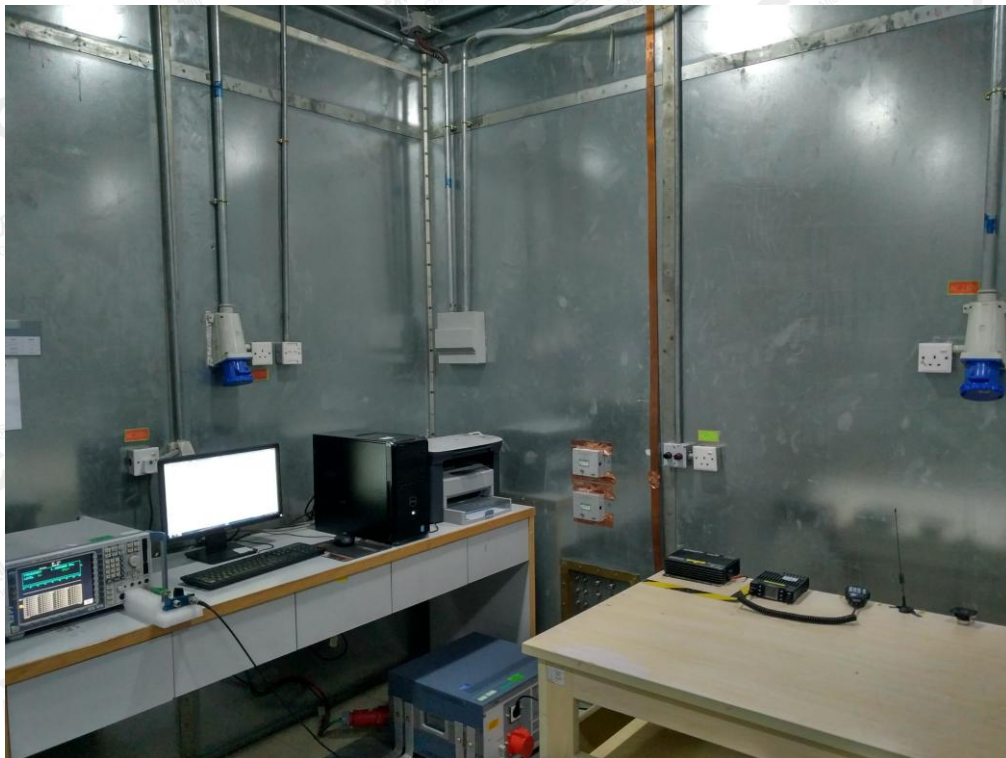
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APPENDIX 1
PHOTOGRAPHS OF TEST SETUP

RADIATED TEST SETUP



CONDUCTED TEST SETUP



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**APPENDIX 2
PHOTOGRAPHS OF EUT**

TOTAL 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

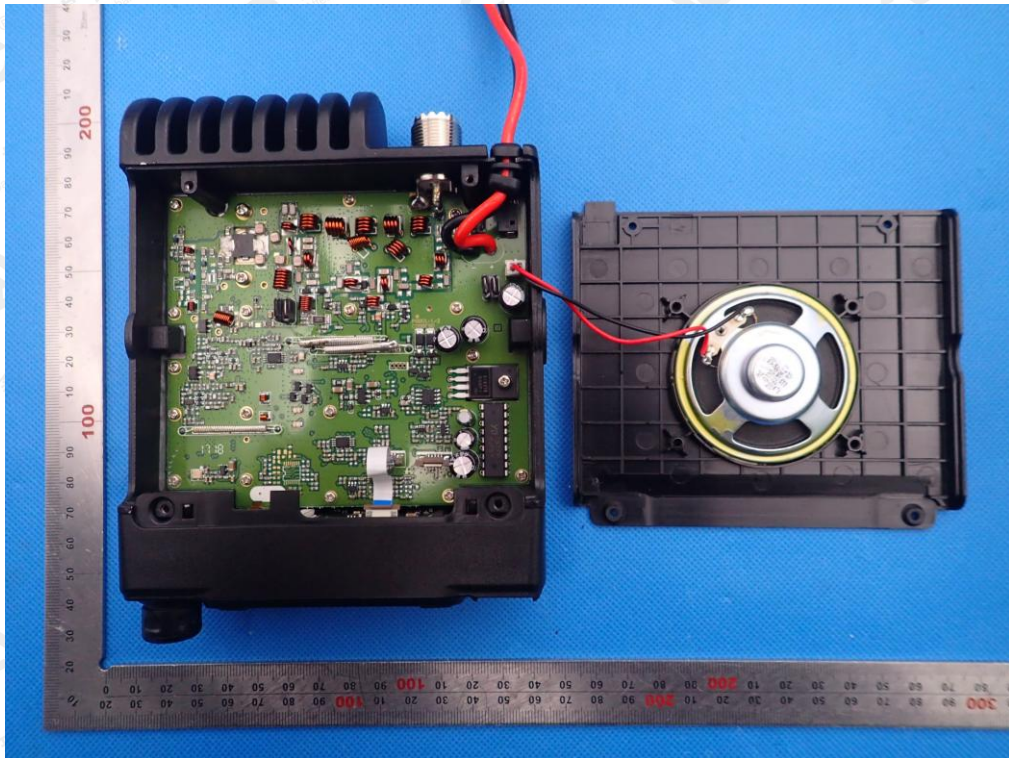


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RIGHT VIEW OF EUT

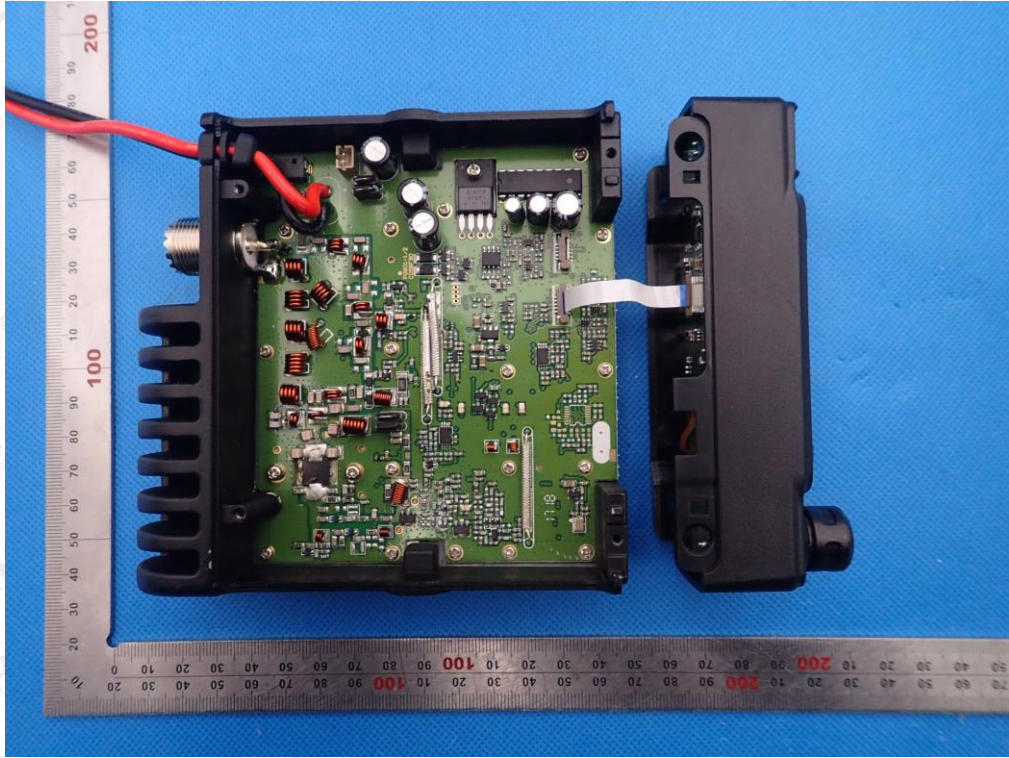


PART 1
OPEN VIEW-1 OF EUT

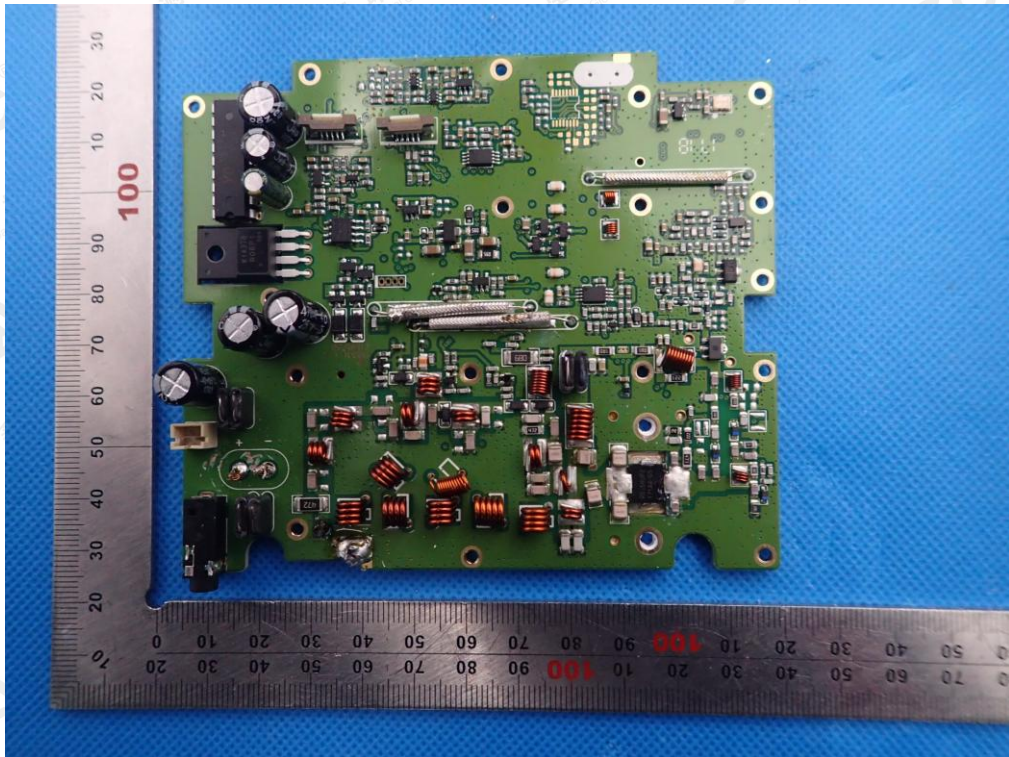


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OPEN VIEW-2 OF EUT

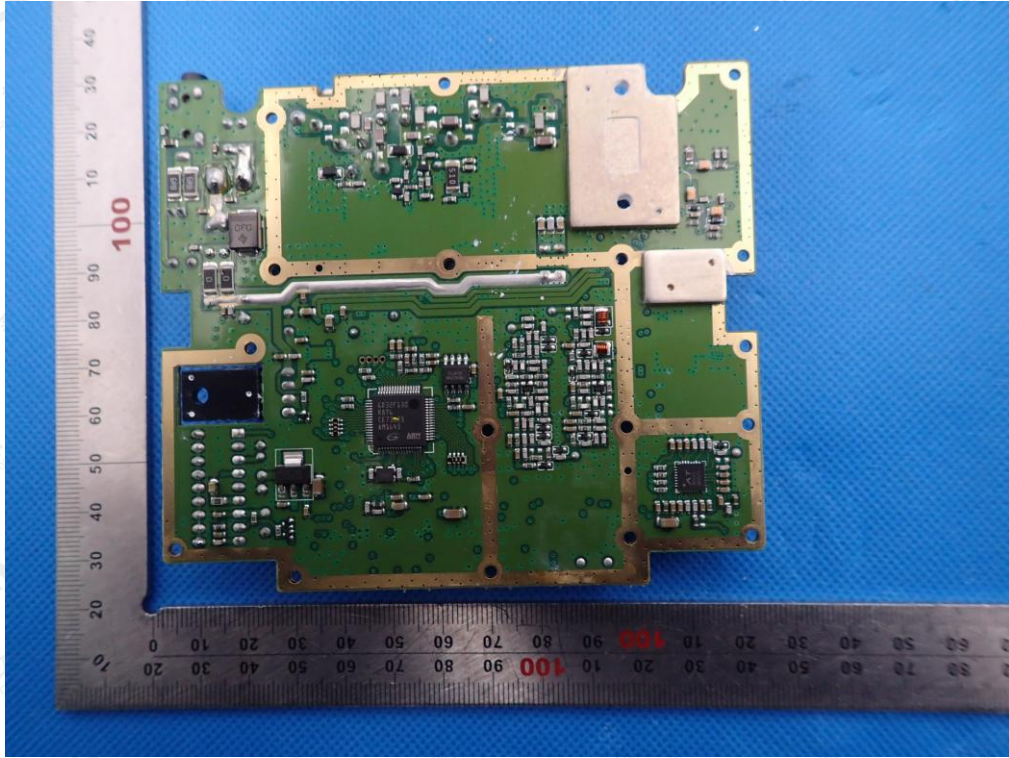


OPEN VIEW-3 OF EUT

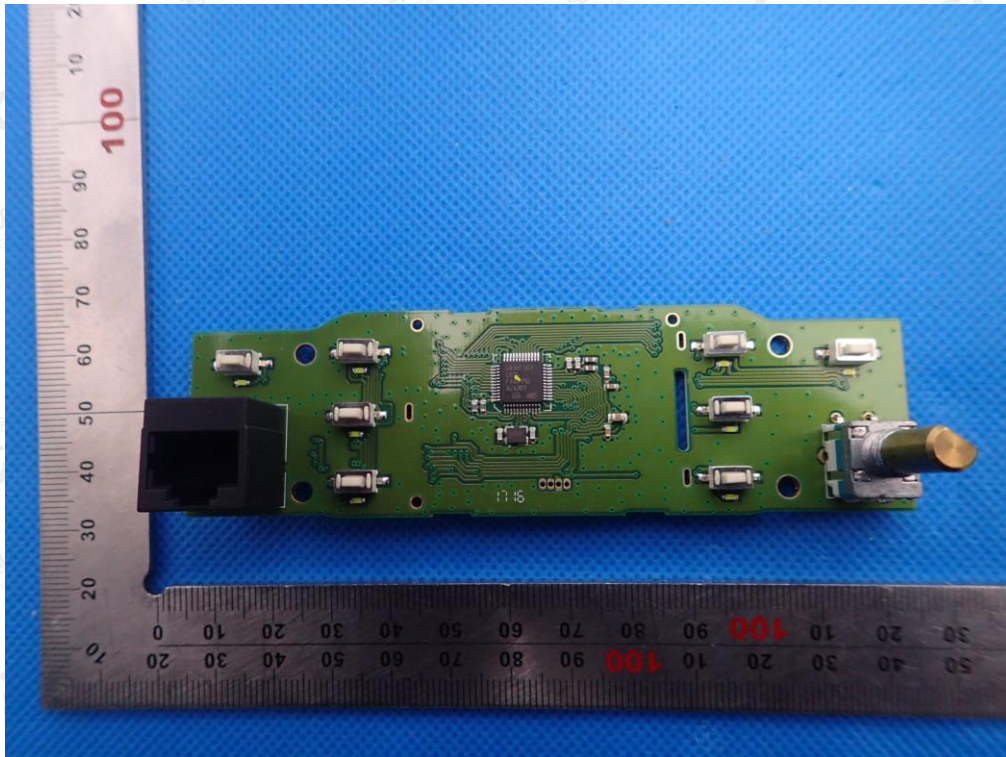


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OPEN VIEW-4 OF EUT

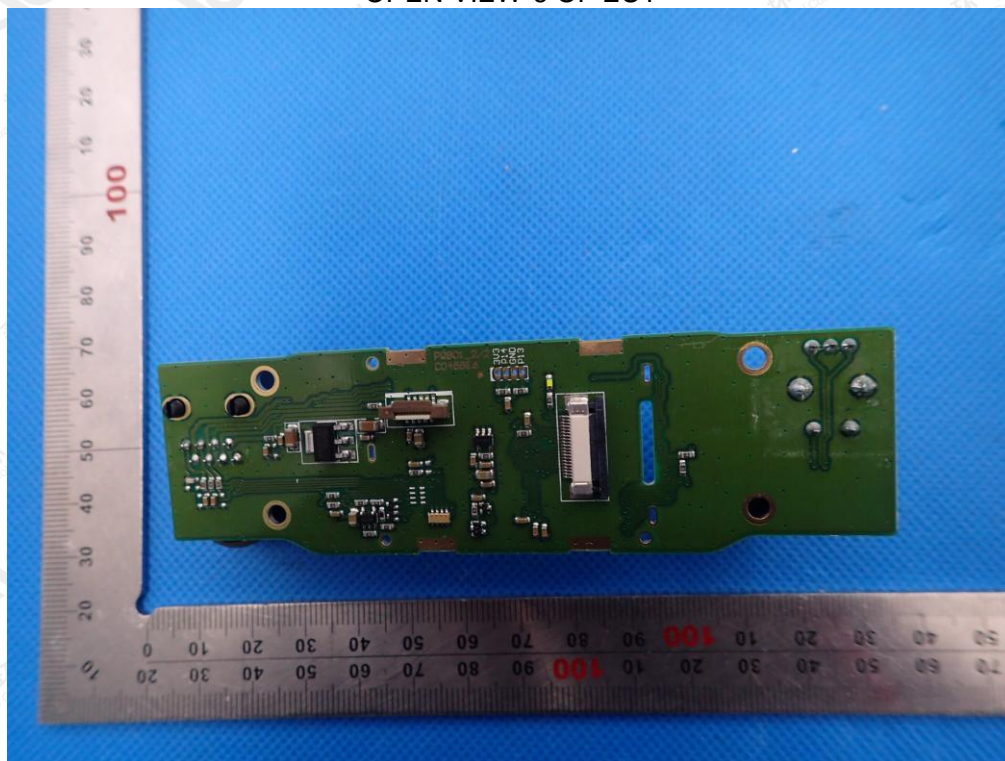


OPEN VIEW-5 OF EUT



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OPEN VIEW-6 OF EUT



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PART 2
TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT

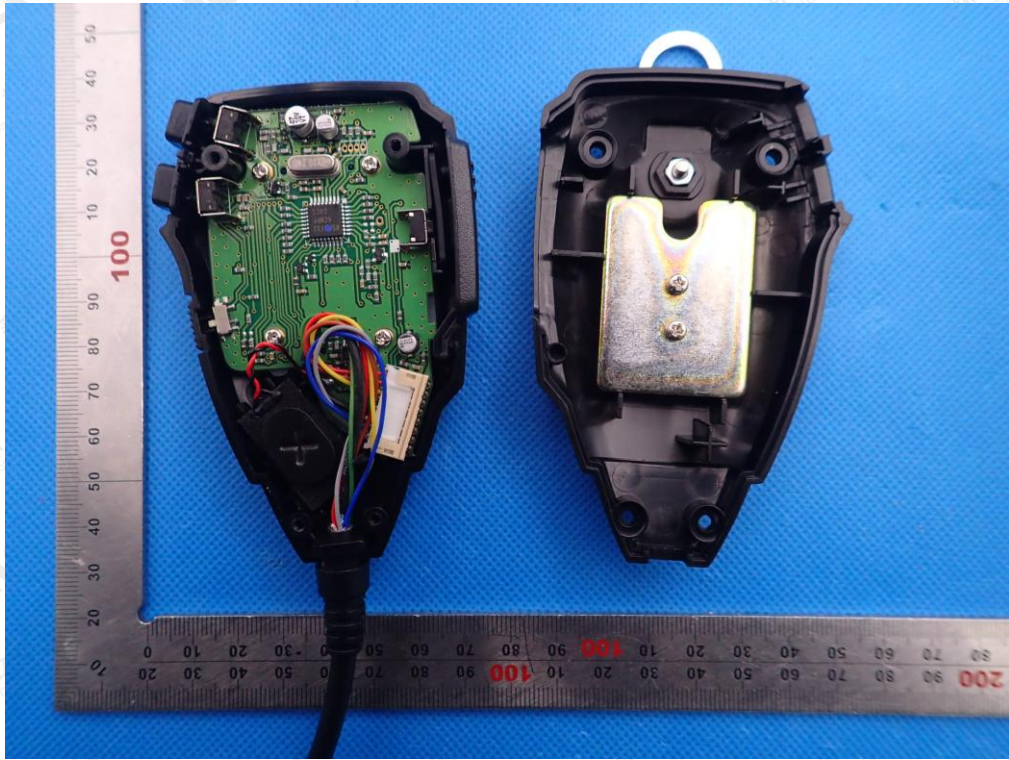


RIGHT VIEW OF EUT

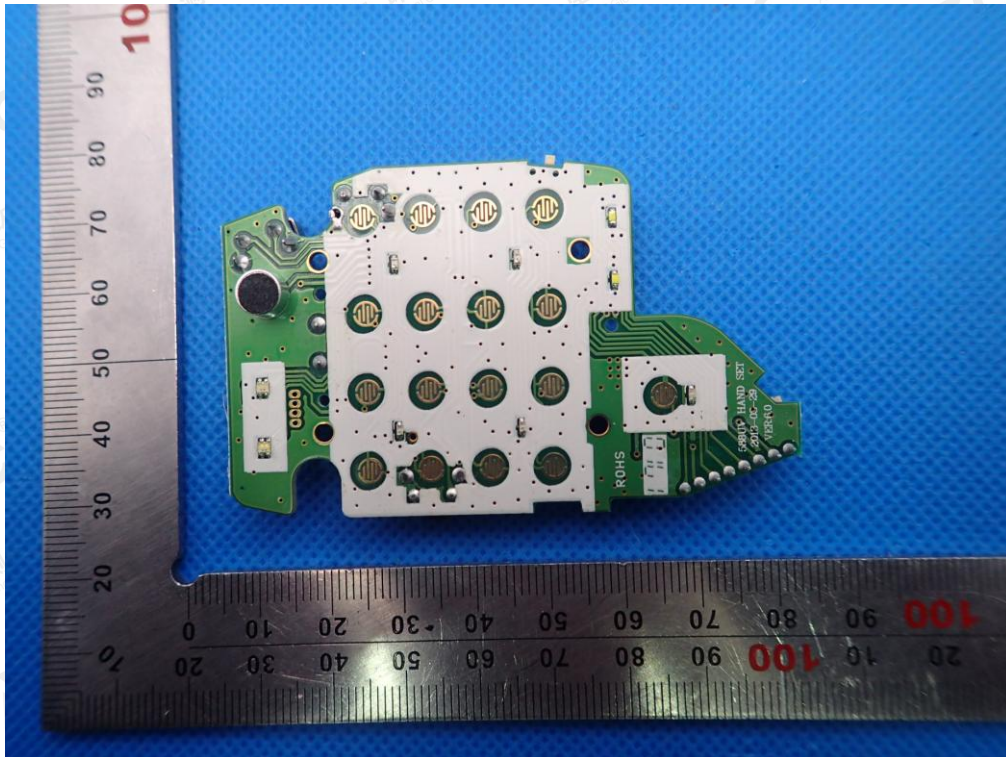


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OPEN VIEW-1 OF EUT

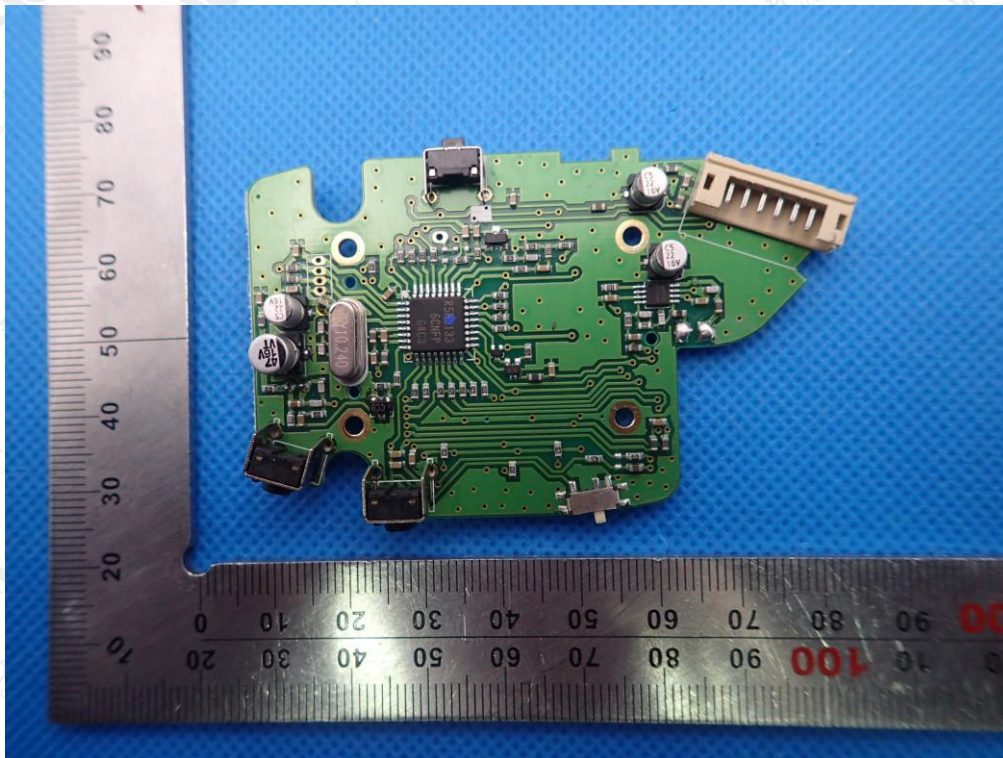


INTERNAL VIEW-2 OF EUT



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INTERNAL VIEW-3 OF EUT



----END OF REPORT----

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