#### Shenzhen Global Test Service Co.,Ltd.



No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

#### FCC PART 15 SUBPART C TEST REPORT

#### **FCC PART 15.239**

Report Reference No. ...... GTS20230203009-1-34

FCC ID. .....: 2AV8I-RX10

Compiled by

(position+printed name+signature).: File administrators Peter Xiao

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Date of issue .....: Mar.28, 2023

Representative Laboratory Name: Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative

Address...... Garden, No.98, Pingxin North Road, Shangmugu Community,

Pinghu Street, Longgang District, Shenzhen, Guangdong

Applicant's name ...... Pacific Time Trading(Shenzhen)Limited

Address...... Unit 607, block A, Rong Chaoying Long building, 5 longfuRoad,

Longcheng street, Longgang District, Shenzhen, China

Test specification .....:

Standard ...... FCC CFR 47 PART 15.239 / ANSI C63.10: 2013

TRF Originator .....: Shenzhen Global Test Service Co.,Ltd.

Master TRF ...... Dated 2014-12

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Test item description.....: CARPLAY

Trade Mark.....: Coral Vision

Manufacturer.....: TFVC SHANGHAI CO.,LTD.

Model/Type reference.....: RX10

Listed Models .....: MX10, SX10, RX7, MX7, SX7

Modulation Type .....: FM

Operation Frequency .....: From 88MHz to 108MHz

Hardware Version ...... N/A
Software Version ...... N/A

Rating.....: DC 5.0V/3.0A by Car Charger

Result.....: PASS

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### TEST REPORT

Test Report No. :	GTS20230203009-1-34	Mar.28, 2023
rest Report No	G1320230203003-1-34	Date of issue

Equipment under Test : CARPLAY

Model /Type : RX10

Listed Models : MX10, SX10, RX7, MX7, SX7

Applicant : Pacific Time Trading(Shenzhen)Limited

Address : Unit 607, block A, Rong Chaoying Long building, 5 longfuRoad,

Longcheng street, Longgang District, Shenzhen, China

Manufacturer : TFVC SHANGHAI CO.,LTD.

Address : Rm 103, No.1 Lane 666 Xinhua Road, Changning District, Shanghai,

China

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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# 1. TEST STANDARDS

The tests were performed according to following standards:

<u>FCC Rules Part 15.239</u>: Operation in the band 88-108 MHz <u>ANSI C63.10-2013</u>: American National Standard for Testing Unlicensed Wireless Devices Report No.: GTS20230203009-1-34 Page 5 of 19

# 2. SUMMARY

### 2.1. General Remarks

Date of receipt of test sample		Feb .20, 2023
Testing commenced on	:	Feb .20, 2023
Testing concluded on	:	Mar. 24, 2023

# 2.2. Product Description

Product Name	CARPLAY		
Trade Mark	Coral Vision		
Model/Type reference	RX10		
List Models	MX10, SX10, RX7, MX7, SX7		
Model Declaration	PCB board, structure and internal of these model(s) are the same, Only the model name different, So no additional models were tested.		
Power supply:	DC 5.0V/3.0A by Car Charger		
Sample ID	GTS20230203009-1-S0001-3#& GTS20230203009-1-S0001-4#		
Bluetooth			
Operation frequency	2402-2480MHz		
Channel Number	79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS)		
Channel Spacing	1MHz for Bluetooth (DSS) 2MHz for Bluetooth (DTS)		
Modulation Type	GFSK, π/4-DQPSK, 8-DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)		
WIFI(2.4G Band)			
Frequency Range	2412MHz ~ 2462MHz		
Channel Spacing	5MHz		
Channel Number	11 Channel for 20MHz bandwidth(2412~2462MHz)		
Modulation Type	802.11b: DSSS; 802.11g/n: OFDM		
WIFI(5.2G Band)			
Frequency Range	5180MHz ~ 5240MHz		
Channel Number	4 Channels for 20MHz bandwidth(5180-5240MHz)		
Modulation Type	802.11a/n: OFDM		
WIFI (5.8G Band)			
Frequency Range	5745MHz ~ 5825MHz		
Channel Number	5 channels for 20MHz bandwidth(5745-5825MHz)		
Modulation Type	802.11a/n: OFDM		
Antenna Description	FPC Antenna, 3.36dBi(Max.) for 2.4G Band and 0.96dBi(Max.) for 5G Band		
FM Transmitter			
Frequency Range	88 MHz~108 MHz		
Channel Spacing	100KHz		
Channel Number	199 Channel		
Modulation Type	FM		
Antenna Description	Linear Antenna , 0dBi(Max.)		

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#### 2.3. Equipment Under Test

### Power supply system utilised

Power supply voltage	:	0	230V / 50 Hz	0	120V / 60Hz
		0	12 V DC	0	24 V DC
		•	Other (specified in blank below)		)

#### DC 5.0V

#### 2.4. Short description of the Equipment under Test (EUT)

This is a CARPLAY

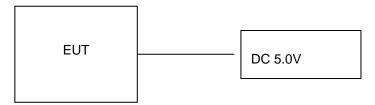
For more details, refer to the user's manual of the EUT.

#### 2.5. EUT operation mode

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 79 channels provided to the EUT. Channel 00/38/78 was selected to test.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
00	88.1	100	98.1
01	88.2	101	98.2
02	88.3	102	98.3
98	97.9	198	107.9
99	98.0		

### 2.6. Block Diagram of Test Setup



#### 2.7. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AV8I-RX10** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

#### 2.8. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
Summit Electronics	Car Charger	MXT-S5410		SDOC
LLC	Cai Chaigei	WIX 1-35410		SDOC

#### 2.9. External I/O Cable

I/O Port Description	Quantity	Cable
Type-C Port	1	3.5M, Unscreened Cable
AV IN Port	1	N/A

#### 2.10. Modifications

No modifications were implemented to meet testing criteria.

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### 3. TEST ENVIRONMENT

#### 3.1. Address of the test laboratory

#### Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

#### 3.2. Test Facility

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

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is165725.

#### 3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

#### 3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods — Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Global Test Service Co.,Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

<sup>(1)</sup> This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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### 3.5. Summary of measurement results

Applied Standard: FCC CFR 47 PART 15.239				
FCC Rules	Description of Test	Result		
15.239 (a)	Occupied Bandwidth	Compliant		
15.239 (b)	Field Strength of Fundamental frequency	Compliant		
15.239 (b)	Radiated Spurious Emissions	Compliant		
15.207 (a)	AC Conducted Emissions	N/A		
15.203	Antenna Requirements	Compliant		

- The measurement uncertainty is not included in the test result.

  NA = Not Applicable; NP = Not Performed

  We tested all test mode and recorded worst case in report
- 2.

## 3.6. Equipments Used during the Test

LISN   CYBERTEK   EM5040A   E1850400105   Date   Date						
LISN	Test Equipment	Manufacturer	Model No.	Serial No.		
EMI Test Receiver   R&S	LISN	CYBERTEK	EM5040A	E1850400105	2022/07/13	2023/07/12
EMI Test Receiver         R&S         ESCI7         101102         2022/09/09         2023/09/08           Spectrum Analyzer         Agilent         N9020A         MY48010425         2022/09/09         2023/09/08           Spectrum Analyzer         R&S         FSV40         100019         2022/07/13         2023/07/12           Vector Signal generator         Agilent         N5181A         MY49060502         2022/07/13         2023/09/08           Climate Chamber         ESPEC         EL-10KA         A20120523         2022/09/09         2023/09/08           Controller         EM Electronics         Controller EM 1000         N/A         N/A         N/A           Horn Antenna         Schwarzbeck         BBHA 9120D         01622         2022/09/09         2023/09/08           Active Loop Antenna         Schwarzbeck         BBHA 9120D         15006         2022/09/09         2023/09/08           Bilog Antenna         Schwarzbeck         JULB9163         000976         2022/09/09         2023/09/08           Broadband Horn Antenna         Schwarzbeck         BBHA 9170         791         2022/09/13         2023/07/12           Amplifier         Schwarzbeck         BBV 9743         #202         2022/07/13         2023/07/12	LISN	R&S	ESH2-Z5	893606/008	2022/07/13	2023/07/12
Spectrum Analyzer         Agilent         N9020A         MY48010425         2022/09/09         2023/09/08           Spectrum Analyzer         R&S         FSV40         100019         2022/07/13         2023/07/12           Vector Signal generator agenerator         Agilent         N5181A         MY49060502         2022/07/13         2023/07/12           Signal generator         Agilent         N5182A         3610AO1069         2022/09/09         2023/09/08           Controller         EM Electronics         Controller EM A20120523         2022/09/09         2023/09/08           Controller         EM Electronics         Controller EM 1000         N/A         N/A         N/A           Horn Antenna         Schwarzbeck         BBHA 9120D         01622         2022/09/09         2023/09/08           Active Loop Antenna         Schwarzbeck         BBHA 9120D         01622         2022/09/09         2023/09/08           Active Loop Antenna         Schwarzbeck         BBHA 9120D         01622         2022/09/09         2023/09/08           Active Loop Antenna         Schwarzbeck         BBHA 9170         791         2022/09/09         2023/09/08           Active Loop Antenna         Schwarzbeck         BBHA 9170         791         2022/07/13         2023/07/12 <td>EMI Test Receiver</td> <td>R&amp;S</td> <td>ESPI3</td> <td>101841-cd</td> <td>2022/07/13</td> <td>2023/07/12</td>	EMI Test Receiver	R&S	ESPI3	101841-cd	2022/07/13	2023/07/12
Spectrum Analyzer         R&S         FSV40         100019         2022/07/13         2023/07/12           Vector Signal generator         Agilent         N5181A         MY49060502         2022/07/13         2023/07/12           Signal generator         Agilent         N5181A         MY49060502         2022/09/09         2023/09/08           Cimate Chamber         ESPEC         EL-10KA         A20120523         2022/09/09         2023/09/08           Controller         EM Electronics         Controller EM 1000         N/A         N/A         N/A           Active Loop Antenna         Schwarzbeck         BBHA 9120D         01622         2022/09/09         2023/09/08           Bilog Antenna         Schwarzbeck         BBHA 9120D         01622         2022/09/09         2023/09/08           Broadband Horn Antenna         Schwarzbeck         VULB9163         000976         2022/07/13         2023/09/08           Amplifier         Schwarzbeck         BBHA 9170         791         2022/09/09         2023/09/08           Amplifier         Schwarzbeck         BBV9743         #202         2022/07/13         2023/07/12           Amplifier         EMCI         EMCO51845B         980355         2022/07/13         2023/07/12           H	EMI Test Receiver	R&S	ESCI7	101102	2022/09/09	2023/09/08
Vector Signal generator         Agilent         N5181A         MY49060502         2022/07/13         2023/07/12           Signal generator         Agilent         N5182A         3610AO1069         2022/09/09         2023/09/08           Climate Chamber         ESPEC         EL-10KA         A20120523         2022/09/09         2023/09/08           Controller         EM Electronics         Controller EM 1000         N/A         N/A         N/A           Horn Antenna         Schwarzbeck         BBHA 9120D         01622         2022/09/09         2023/09/08           Active Loop Antenna         Belijing Da Ze Technology CO.,Ltd.         ZN30900C         15006         2022/09/09         2023/09/08           Bilog Antenna         Schwarzbeck         VULB9163         000976         2022/09/09         2023/09/08           Broadband Horn Antenna         SCHWARZBECK         BBHA 9170         791         2022/09/09         2023/09/08           Amplifier         Schwarzbeck         BBV9179         9719-025         2022/07/13         2023/07/12           Amplifier         Schwarzbeck         BBV9179         9719-025         2022/07/13         2023/07/12           Temperature/Humidi ty Meter         K&L         29SH10-200         2002/07/13         2022/07/13	Spectrum Analyzer	Agilent	N9020A	MY48010425	2022/09/09	2023/09/08
Generator         Aglient         NS161A         M119000002         2022/07/13         2023/07/12           Signal generator         Aglient         NS182A         3610AO1069         2022/09/09         2023/09/08           Climate Chamber         ESPEC         EL-10KA         A20120523         2022/09/09         2023/09/08           Controller         EM Electronics         Controller EM 1000         N/A         N/A         N/A           Horn Antenna         Schwarzbeck         BBHA 9120D         01622         2022/09/09         2023/09/08           Active Loop Antenna         Schwarzbeck         BBHA 9120D         15006         2022/09/09         2023/09/08           Active Loop Antenna         Schwarzbeck         BBHA 9170         791         2022/09/09         2023/09/08           Active Loop Antenna         Schwarzbeck         VULB9163         000976         2022/07/13         2023/09/08           Active Loop Antenna         Schwarzbeck         VULB9163         000976         2022/07/13         2023/09/09           Active Loop Antenna         Schwarzbeck         BBHA 9170         791         2022/07/13         2023/09/09           Amplifier         Schwarzbeck         BBV 9743         #202         2022/07/13         2023/07/12	Spectrum Analyzer	R&S	FSV40	100019	2022/07/13	2023/07/12
Climate Chamber         ESPEC         EL-10KA         A20120523         2022/09/09         2023/09/08           Controller         EM Electronics         Controller EM 1000         N/A         N/A         N/A           Horn Antenna         Schwarzbeck         BBHA 9120D         01622         2022/09/09         2023/09/08           Active Loop Antenna         Beijing Da Ze Technology Co., Ltd.         ZN30900C         15006         2022/09/09         2023/09/08           Bilog Antenna         Schwarzbeck         VULB9163         000976         2022/09/09         2023/09/08           Broadband Horn Antenna         Schwarzbeck         BBHA 9170         791         2022/09/09         2023/09/08           Amplifier         Schwarzbeck         BBW 9743         #202         2022/07/13         2023/07/12           Amplifier         Schwarzbeck         BBV9179         9719-025         2022/07/13         2023/07/12           Temperature/Humidi ty Meter         Gangxing         CTH-608         02         2022/07/13         2023/07/12           High-Pass Filter         K&L         2700/X12750- 0/O         KL142031         2022/07/13         2023/07/12           RF Cable(below 1GHz)         HUBER+SUHNE R         RG214         RE01         2022/07/13         202		Agilent	N5181A	MY49060502	2022/07/13	2023/07/12
Controller         EM Electronics         Controller EM 1000         N/A         N/A         N/A           Horn Antenna         Schwarzbeck         BBHA 9120D         01622         2022/09/09         2023/09/08           Active Loop Antenna         Beijing Da Ze Technology Technology Co.,Ltd.         ZN30900C         15006         2022/09/09         2023/09/08           Bilog Antenna         Schwarzbeck         VULB9163         000976         2022/07/13         2023/07/12           Broadband Horn Antenna         SCHWARZBECK         BBHA 9170         791         2022/09/09         2023/09/08           Amplifier         Schwarzbeck         BBV 9743         #202         2022/07/13         2023/07/12           Amplifier         Schwarzbeck         BBV9179         9719-025         2022/07/13         2023/07/12           Amplifier         EMCI         EMC051845B         980355         2022/07/13         2023/07/12           Temperature/Humidi ty Meter         K&L         29SH10-         KL142031         2022/07/13         2023/07/12           High-Pass Filter         K&L         1375/U12750-         KL142032         2022/07/13         2023/07/12           RF Cable(below 1GHz)         HUBER+SUHNE R         RG214         RE01         2022/07/13         202	Signal generator	Agilent	N5182A	3610AO1069	2022/09/09	2023/09/08
Horn Antenna   Schwarzbeck   BBHA 9120D   01622   2022/09/09   2023/09/08	Climate Chamber	ESPEC	EL-10KA	A20120523	2022/09/09	2023/09/08
Active Loop Antenna         Beijing Da Ze Technology Co., Ltd.         ZN30900C         15006         2022/09/09         2023/09/08           Bilog Antenna         Schwarzbeck         VULB9163         000976         2022/07/13         2023/07/12           Broadband Horn Antenna         SCHWARZBECK         BBHA 9170         791         2022/09/09         2023/09/08           Amplifier         Schwarzbeck         BBV 9743         #202         2022/07/13         2023/07/12           Amplifier         Schwarzbeck         BBV9179         9719-025         2022/07/13         2023/07/12           Amplifier         EMCI         EMC051845B         980355         2022/07/13         2023/07/12           Temperature/Humidi ty Meter         K&L         9SH10-2700/X12750-0/0         KL142031         2022/07/13         2023/07/12           High-Pass Filter         K&L         9SH10-2700/X12750-0/0         KL142031         2022/07/13         2023/07/12           RF Cable(below 10/Hz)         HUBER+SUHNE R         RG214         RE01         2022/07/13         2023/07/12           RF Cable(above 10/Hz)         HUBER+SUHNE R         RG214         RE02         2022/07/13         2023/07/12           Power Sensor         Agilent         U2531A         TW53323507         2022/07/	Controller	EM Electronics		N/A	N/A	N/A
Active Loop Antenna         Technology Co., Ltd.         ZN30900C         15006         2022/09/09         2023/09/08           Bilog Antenna         Schwarzbeck         VULB9163         000976         2022/07/13         2023/07/12           Broadband Horn Antenna         SCHWARZBECK         BBHA 9170         791         2022/09/09         2023/09/08           Amplifier         Schwarzbeck         BBV 9743         #202         2022/07/13         2023/07/12           Amplifier         Schwarzbeck         BBV9179         9719-025         2022/07/13         2023/07/12           Amplifier         EMCI         EMC051845B         980355         2022/07/13         2023/07/12           Temperature/Humidi ty Meter         Gangxing         CTH-608         02         2022/07/13         2023/07/12           High-Pass Filter         K&L         29SH10- 2700/X12750- 0/O         KL142031         2022/07/13         2023/07/12           RF Cable(below 1GHz)         K&L         1375/U12750- 0/O         KL142032         2022/07/13         2023/07/12           RF Cable(below 1GHz)         R         RG214         RE01         2022/07/13         2023/07/12           Power Sensor         Agilent         U2531A         TW53323507         2022/07/13         2023/07/12	Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2022/09/09	2023/09/08
Broadband Horn Antenna         SCHWARZBECK         BBHA 9170         791         2022/09/09         2023/09/08           Amplifier         Schwarzbeck         BBV 9743         #202         2022/07/13         2023/07/12           Amplifier         Schwarzbeck         BBV9179         9719-025         2022/07/13         2023/07/12           Amplifier         EMCI         EMC051845B         980355         2022/07/13         2023/07/12           Temperature/Humidi ty Meter         Gangxing         CTH-608         02         2022/07/13         2023/07/12           High-Pass Filter         K&L         9SH10- 2700/X12750- 0/O         KL142031         2022/07/13         2023/07/12           RF Cable(below 1GHz)         HUBER+SUHNE R         RG214         RE01         2022/07/13         2023/07/12           RF Cable(above 1GHz)         HUBER+SUHNE R         RG214         RE02         2022/07/13         2023/07/12           Data acquisition card         Agilent         U2531A         TW53323507         2022/07/13         2023/07/12           Power Sensor         Agilent         U2021XA         MY5365004         2022/07/13         2023/07/12           Automated filter bank         Tonscend         JS0806-F         19F8060177         2022/07/13         2023/07/	Active Loop Antenna	Technology	ZN30900C	15006	2022/09/09	2023/09/08
Antenna         SCHWARZBECK         BBHA 91/0         791         2022/09/09         2023/09/08           Amplifier         Schwarzbeck         BBV 9743         #202         2022/07/13         2023/07/12           Amplifier         Schwarzbeck         BBV9179         9719-025         2022/07/13         2023/07/12           Amplifier         EMCI         EMC051845B         980355         2022/07/13         2023/07/12           Temperature/Humidi ty Meter         Gangxing         CTH-608         02         2022/07/13         2023/07/12           High-Pass Filter         K&L         9SH10- 2700/X12750- 0/O         KL142031         2022/07/13         2023/07/12           RF Cable(below 1GHz)         HUBER+SUHNE R         RG214         RE01         2022/07/13         2023/07/12           RF Cable(above 1GHz)         HUBER+SUHNE R         RG214         RE02         2022/07/13         2023/07/12           Data acquisition card         Agilent         U2531A         TW53323507         2022/07/13         2023/07/12           Power Sensor         Agilent         U2021XA         MY5365004         2022/07/13         2023/07/12           Automated filter bank         Tonscend         JS0806-F         19F8060177         2022/07/13         2023/07/12 <td>Bilog Antenna</td> <td>Schwarzbeck</td> <td>VULB9163</td> <td>000976</td> <td>2022/07/13</td> <td>2023/07/12</td>	Bilog Antenna	Schwarzbeck	VULB9163	000976	2022/07/13	2023/07/12
Amplifier         Schwarzbeck         BBV9179         9719-025         2022/07/13         2023/07/12           Amplifier         EMCI         EMC051845B         980355         2022/07/13         2023/07/12           Temperature/Humidi ty Meter         Gangxing         CTH-608         02         2022/07/13         2023/07/12           High-Pass Filter         K&L         9SH10-2700/X12750-0/O         KL142031         2022/07/13         2023/07/12           High-Pass Filter         K&L         1375/U12750-0/O         KL142032         2022/07/13         2023/07/12           RF Cable(below 1GHz)         HUBER+SUHNE R         RG214         RE01         2022/07/13         2023/07/12           RF Cable(above 1GHz)         HUBER+SUHNE R         RG214         RE02         2022/07/13         2023/07/12           Data acquisition card         Agilent         U2531A         TW53323507         2022/07/13         2023/07/12           Power Sensor         Agilent         U2021XA         MY5365004         2022/07/13         2023/07/12           Test Control Unit         Tonscend         JS0806-F         19F8060177         2022/07/13         2023/07/12           EMI Test Software         Tonscend         JS1120-1         Ver 2.68.0518         /         /     <		SCHWARZBECK	BBHA 9170	791	2022/09/09	2023/09/08
Amplifier         EMCI         EMC051845B         980355         2022/07/13         2023/07/12           Temperature/Humidi ty Meter         Gangxing         CTH-608         02         2022/07/13         2023/07/12           High-Pass Filter         K&L         9SH10- 2700/X12750- 0/O         KL142031         2022/07/13         2023/07/12           High-Pass Filter         K&L         41H10- 1375/U12750- 0/O         KL142032         2022/07/13         2023/07/12           RF Cable(below 1GHz)         HUBER+SUHNE R         RG214         RE01         2022/07/13         2023/07/12           RF Cable(above 1GHz)         HUBER+SUHNE R         RG214         RE02         2022/07/13         2023/07/12           Data acquisition card         Agilent         U2531A         TW53323507         2022/07/13         2023/07/12           Power Sensor         Agilent         U2021XA         MY5365004         2022/07/13         2023/07/12           Test Control Unit         Tonscend         JS0806-F         19F8060177         2022/07/13         2023/07/12           EMI Test Software         Tonscend         JS1120-1         Ver 2.6.8.0518         /         /           EMI Test Software         Tonscend         JS31120-3         Ver 2.5         /         / </td <td>Amplifier</td> <td>Schwarzbeck</td> <td>BBV 9743</td> <td>#202</td> <td>2022/07/13</td> <td>2023/07/12</td>	Amplifier	Schwarzbeck	BBV 9743	#202	2022/07/13	2023/07/12
Temperature/Humidi ty Meter         Gangxing         CTH-608         02         2022/07/13         2023/07/12           High-Pass Filter         K&L         9SH10-2700/X12750-0/O         KL142031         2022/07/13         2023/07/12           High-Pass Filter         K&L         41H10-1375/U12750-0/O         KL142032         2022/07/13         2023/07/12           RF Cable(below 1GHz)         HUBER+SUHNE R         RG214         RE01         2022/07/13         2023/07/12           RF Cable(above 1GHz)         HUBER+SUHNE R         RG214         RE02         2022/07/13         2023/07/12           Data acquisition card         Agilent         U2531A         TW53323507         2022/07/13         2023/07/12           Power Sensor         Agilent         U2021XA         MY5365004         2022/07/13         2023/07/12           Test Control Unit         Tonscend         JS0806-1         178060067         2022/07/13         2023/07/12           Automated filter bank         Tonscend         JS1120-1         Ver 2.6.8.0518         /         /           EMI Test Software         Tonscend         JS1120-3         Ver 2.5.77.0418         /         /           EMI Test Software         Tonscend         JS32-CE         Ver 2.5         /         / <td>Amplifier</td> <td>Schwarzbeck</td> <td>BBV9179</td> <td>9719-025</td> <td>2022/07/13</td> <td>2023/07/12</td>	Amplifier	Schwarzbeck	BBV9179	9719-025	2022/07/13	2023/07/12
ty Meter         Garigxing         CTH-808         02         2022/07/13         2023/07/12           High-Pass Filter         K&L         9SH10- 2700/X12750- 0/O         KL142031         2022/07/13         2023/07/12           High-Pass Filter         K&L         41H10- 1375/U12750- 0/O         KL142032         2022/07/13         2023/07/12           RF Cable(below 1GHz)         HUBER+SUHNE R         RG214         RE01         2022/07/13         2023/07/12           RF Cable(above 1GHz)         HUBER+SUHNE R         RG214         RE02         2022/07/13         2023/07/12           Data acquisition card         Agilent         U2531A         TW53323507         2022/07/13         2023/07/12           Power Sensor         Agilent         U2021XA         MY5365004         2022/07/13         2023/07/12           Test Control Unit         Tonscend         JS0806-1         178060067         2022/07/13         2023/07/12           Automated filter bank         Tonscend         JS0806-F         19F8060177         2022/07/13         2023/07/12           EMI Test Software         Tonscend         JS1120-1         Ver 2.6.8.0518         /         /           EMI Test Software         Tonscend         JS32-CE         Ver 2.5         /         /	Amplifier	EMCI	EMC051845B	980355	2022/07/13	2023/07/12
High-Pass Filter         K&L         2700/X12750- O/O         KL142031         2022/07/13         2023/07/12           High-Pass Filter         K&L         41H10- 1375/U12750- O/O         KL142032         2022/07/13         2023/07/12           RF Cable(below 1GHz)         HUBER+SUHNE R         RG214         RE01         2022/07/13         2023/07/12           RF Cable(above 1GHz)         HUBER+SUHNE R         RG214         RE02         2022/07/13         2023/07/12           Data acquisition card         Agilent         U2531A         TW53323507         2022/07/13         2023/07/12           Power Sensor         Agilent         U2021XA         MY5365004         2022/07/13         2023/07/12           Test Control Unit         Tonscend         JS0806-1         178060067         2022/07/13         2023/07/12           Automated filter bank         Tonscend         JS0806-F         19F8060177         2022/07/13         2023/07/12           EMI Test Software         Tonscend         JS1120-1         Ver 2.6.8.0518         /         /           EMI Test Software         Tonscend         JS32-CE         Ver 2.5         /         /		Gangxing	CTH-608	02	2022/07/13	2023/07/12
High-Pass Filter         K&L         1375/U12750-O/O         KL142032         2022/07/13         2023/07/12           RF Cable(below 1GHz)         HUBER+SUHNE R         RG214         RE01         2022/07/13         2023/07/12           RF Cable(above 1GHz)         HUBER+SUHNE R         RG214         RE02         2022/07/13         2023/07/12           Data acquisition card         Agilent         U2531A         TW53323507         2022/07/13         2023/07/12           Power Sensor         Agilent         U2021XA         MY5365004         2022/07/13         2023/07/12           Test Control Unit         Tonscend         JS0806-1         178060067         2022/07/13         2023/07/12           Automated filter bank         Tonscend         JS0806-F         19F8060177         2022/07/13         2023/07/12           EMI Test Software         Tonscend         JS1120-1         Ver 2.6.8.0518         /         /           EMI Test Software         Tonscend         JS3120-3         Ver 2.5.77.0418         /         /           EMI Test Software         Tonscend         JS32-CE         Ver 2.5         /         /	High-Pass Filter	K&L	2700/X12750-	KL142031	2022/07/13	2023/07/12
1GHz)         R         RG214         RE01         2022/07/13         2023/07/12           RF Cable(above 1GHz)         HUBER+SUHNE R         RG214         RE02         2022/07/13         2023/07/12           Data acquisition card         Agilent         U2531A         TW53323507         2022/07/13         2023/07/12           Power Sensor         Agilent         U2021XA         MY5365004         2022/07/13         2023/07/12           Test Control Unit         Tonscend         JS0806-1         178060067         2022/07/13         2023/07/12           Automated filter bank         Tonscend         JS0806-F         19F8060177         2022/07/13         2023/07/12           EMI Test Software         Tonscend         JS1120-1         Ver 2.6.8.0518         /         /           EMI Test Software         Tonscend         JS3120-3         Ver 2.5.77.0418         /         /           EMI Test Software         Tonscend         JS32-CE         Ver 2.5         /         /	High-Pass Filter	K&L	1375/U12750-	KL142032	2022/07/13	2023/07/12
1GHz)         R         RG214         RE02         2022/07/13         2023/07/12           Data acquisition card         Agilent         U2531A         TW53323507         2022/07/13         2023/07/12           Power Sensor         Agilent         U2021XA         MY5365004         2022/07/13         2023/07/12           Test Control Unit         Tonscend         JS0806-1         178060067         2022/07/13         2023/07/12           Automated filter bank         Tonscend         JS0806-F         19F8060177         2022/07/13         2023/07/12           EMI Test Software         Tonscend         JS1120-1         Ver 2.6.8.0518         /         /           EMI Test Software         Tonscend         JS3120-3         Ver 2.5.777.0418         /         /           EMI Test Software         Tonscend         JS32-CE         Ver 2.5         /         /			RG214	RE01	2022/07/13	2023/07/12
Card         Agilent         U2531A         TW53323507         2022/07/13         2023/07/12           Power Sensor         Agilent         U2021XA         MY5365004         2022/07/13         2023/07/12           Test Control Unit         Tonscend         JS0806-1         178060067         2022/07/13         2023/07/12           Automated filter bank         Tonscend         JS0806-F         19F8060177         2022/07/13         2023/07/12           EMI Test Software         Tonscend         JS1120-1         Ver 2.6.8.0518         /         /           EMI Test Software         Tonscend         JS3120-3         Ver 2.5.77.0418         /         /           EMI Test Software         Tonscend         JS32-CE         Ver 2.5         /         /	`		RG214	RE02	2022/07/13	2023/07/12
Test Control Unit         Tonscend         JS0806-1         178060067         2022/07/13         2023/07/12           Automated filter bank         Tonscend         JS0806-F         19F8060177         2022/07/13         2023/07/12           EMI Test Software         Tonscend         JS1120-1         Ver 2.6.8.0518         /         /           EMI Test Software         Tonscend         JS1120-3         Ver 2.5.77.0418         /         /           EMI Test Software         Tonscend         JS32-CE         Ver 2.5         /         /	-	Agilent	U2531A	TW53323507	2022/07/13	2023/07/12
Automated filter bank         Tonscend         JS0806-F         19F8060177         2022/07/13         2023/07/12           EMI Test Software         Tonscend         JS1120-1         Ver 2.6.8.0518         /         /           EMI Test Software         Tonscend         JS1120-3         Ver 2.5.77.0418         /         /           EMI Test Software         Tonscend         JS32-CE         Ver 2.5         /         /	Power Sensor	Agilent	U2021XA	MY5365004	2022/07/13	2023/07/12
bank         Tonscend         JS0806-F         19F8060177         2022/07/13         2023/07/12           EMI Test Software         Tonscend         JS1120-1         Ver 2.6.8.0518         /         /           EMI Test Software         Tonscend         JS1120-3         Ver 2.5.77.0418         /         /           EMI Test Software         Tonscend         JS32-CE         Ver 2.5         /         /	Test Control Unit	Tonscend	JS0806-1	178060067	2022/07/13	2023/07/12
EMI Test Software         Tonscend         JS1120-3         Ver 2.5.77.0418         /         /           EMI Test Software         Tonscend         JS32-CE         Ver 2.5         /         /		Tonscend	JS0806-F	19F8060177	2022/07/13	2023/07/12
EMI Test Software Tonscend JS1120-3 2.5.77.0418 /  EMI Test Software Tonscend JS32-CE Ver 2.5 / /	EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	1	1
	EMI Test Software	Tonscend	JS1120-3		/	/
EMI Test Software Tonscend JS32-RE Ver 2.5.1.8 /	EMI Test Software	Tonscend	JS32-CE	Ver 2.5	1	1
	EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/

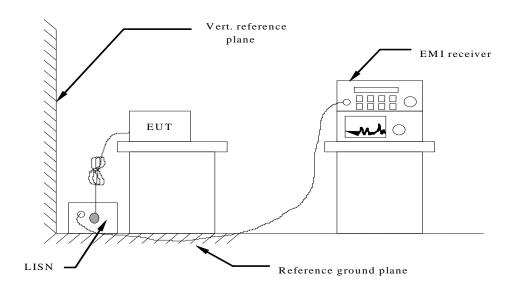
Note: The Cal.Interval was one year.

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### 4. TEST CONDITIONS AND RESULTS

#### 4.1. AC Power Conducted Emission

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. 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 C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013.
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013.
- 4 The EUT received DC 12V power form battery.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT 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.

#### **AC Power Conducted Emission Limit**

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (dBuV)				
Frequency range (IMF12)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
* Decreases with the logarithm of the frequency.					

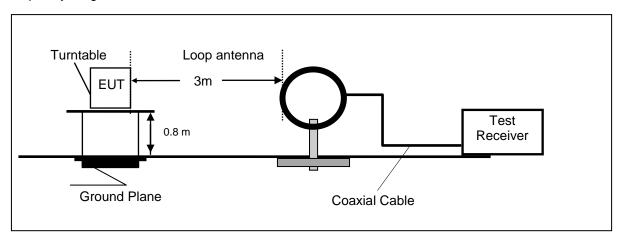
#### **TEST RESULTS**

Not Applicable. (EUT is DC12V to 24V power supply)

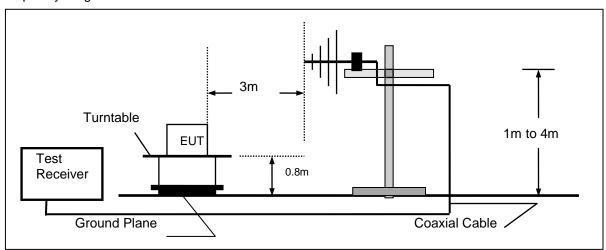
#### 4.2. Radiated Emission

### **TEST CONFIGURATION**

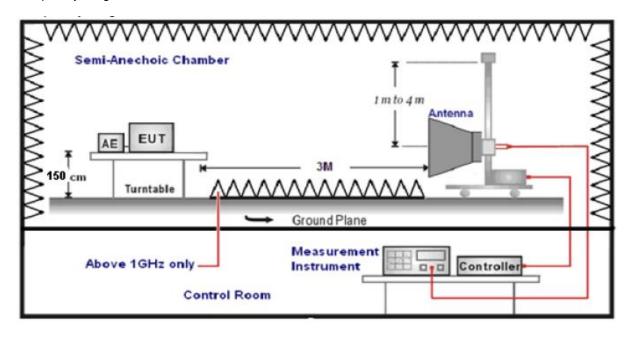
Frequency range 9 KHz - 30MHz



Frequency range 30MHz - 1000MHz



Frequency range above 1GHz-25GHz



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#### **TEST PROCEDURE**

- 1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz 25GHz.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.
- 5. The EUT minimum operation frequency was 32.768KHz and maximum operation frequency was 108MHz.so radiated emission test frequency band from 9KHz to 25GHz.
- 6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

Test	Frequency	Test Receiver/Spectrum Setting	Detector
range			
9KHz-1	50KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz	z-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz		RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz		Peak Value: RBW=1MHz/VBW=3MHz,	
		Sweep time=Auto	Peak
		Average Value: RBW=1MHz/VBW=10Hz,	
		Sweep time=Auto	

#### Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

#### FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

Transd=AF +CL-AG

#### **RADIATION LIMIT**

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

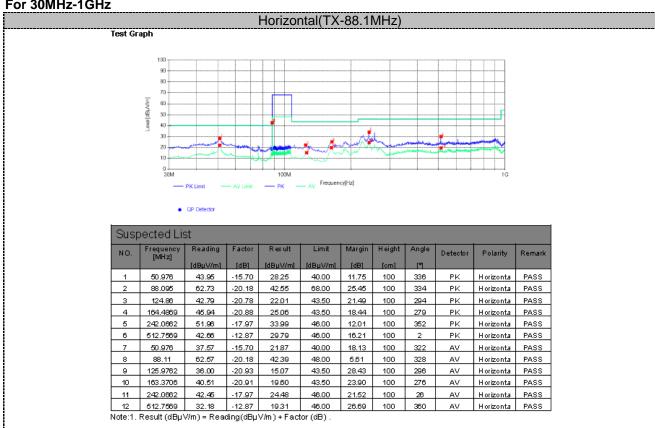
The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

#### **TEST RESULTS**

Only record the worst test result in this report. The test data please refer to following page:

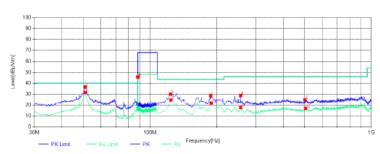
#### For 30MHz-1GHz



#### 2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

#### Vertical (TX-88.1MHz)

Test Graph



QP Detector

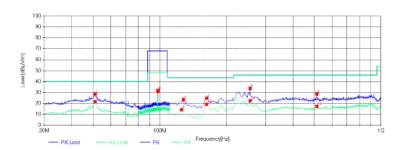
ected Lis	st									
Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	۳۱			
50.976	52.34	-15.70	36.64	40.00	3.36	100	270	PK	Vertical	PASS
88.09	65.88	-20.18	45.70	68.00	22.30	100	262	PK	Vertical	PASS
123.7438	50.36	-20.46	29.90	43.50	13.60	100	0	PK	Vertical	PASS
187.9281	48.35	-19.83	28.52	43.50	14.98	100	243	PK	Vertical	PASS
258.5775	46.25	-17.56	28.69	46.00	17.31	100	345	PK	Vertical	PASS
501.5944	38.09	-13.29	24.80	46.00	21.20	100	322	PK	Vertical	PASS
50.976	47.23	-15.70	31.53	40.00	8.47	100	261	AV	Vertical	PASS
88.105	65.73	-20.18	45.55	48.00	2.45	100	262	AV	Vertical	PASS
124.3019	45.25	-20.58	24.67	43.50	18.83	100	345	AV	Vertical	PASS
189.0444	41.19	-19.42	21.77	43.50	21.73	100	302	AV	Vertical	PASS
256.5775	35.44	-17.56	17.88	46.00	28.12	100	348	AV	Vertical	PASS
504.9431	30.02	-13.16	16.86	46.00	29.14	100	354	AV	Vertical	PASS
	50.976 88.09 123.7438 187.9281 266.5775 501.5944 50.976 88.105 124.3019 189.0444 266.5775 504.9431	Frequency [MHz]  50.976 52.34  88.09 65.88  123.7438 50.36  187.9281 48.35  256.5776 46.25  501.5944 38.09  60.976 47.23  88.105 65.73  124.3019 45.25  189.0444 41.19  256.5776 35.44  504.9431 30.02	Frequency [MHz]         Reading [dB]         Factor [dB]           50.976         52.34         -15.70           88.09         65.83         -20.18           123.7438         50.36         -20.46           187.9281         48.35         -19.83           266.5775         46.25         -17.56           501.5944         38.09         -13.29           60.976         47.23         -15.70           88.105         65.73         -20.18           124.3019         45.25         -20.58           189.0444         41.19         -19.42           266.5775         35.44         -17.56           504.9431         30.02         -13.16	Frequency [MHz]         Reading [dB]         Factor [dBµV/m]         Result [dBµV/m]           50.976         52.34         -16.70         36.84           88.09         66.88         -20.18         45.70           123.7438         50.36         -20.46         29.90           187.9281         48.35         -19.83         28.52           266.5776         46.25         -17.56         28.69           501.9944         38.09         -13.29         24.80           60.976         47.23         -16.70         31.53           38.105         65.73         -20.18         45.55           124.3019         45.25         20.58         24.67           189.0444         41.19         -19.42         21.77           265.5776         35.44         -17.56         17.88           504.9431         30.02         -13.16         16.86	Frequency [MHz]         Reading [dBμV/m]         Factor [dBμV/m]         Result [dBμV/m]         IdBμV/m]         IdBμV/m]	Frequency [MHz]         Reading [JGBµV/m]         Factor [JGBµV/m]         Result [JGBµV/m]         Limit [JGBµV/m]         Margin [JGBµV/m]         IdBµV/m]         IdBµV/m]	Frequency   Reading   Factor   Result   Limit   Margin   Height	Frequency   Reading   Factor   Result   Limit   Margin   Height   Angle	Frequency   Reading   Factor   Result   Limit   Margin   Height   Angle   Detector   IdBuV/ml   I	Frequency   Reading   Factor   Result   Limit   Margin   Height   Angle   Detector   Polarity

Note:1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB).

<sup>2.</sup> Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

### Horizontal (TX-98.0MHz)

#### Test Graph



OP Detects

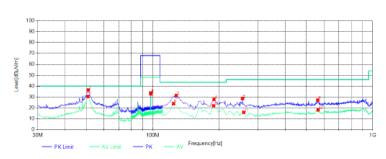
Susp	ected Lis	st									
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	[101112]	[dBµV/m]	[4B]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	۳۱			
1	51	44.28	-15.71	28.57	40.00	11.43	100	314	PK	Horizonta	PASS
2	98.011	49.85	-17.95	31.90	68.00	36.10	100	337	PK	Horizonta	PASS
3	127.891	44.60	-21.21	23.39	43.50	20.11	100	301	PK	Horizonta	PASS
4	162.562	45.61	-20.82	24.79	43.50	18.71	100	281	PK	Horizonta	PASS
5	255.907	51.38	-17.61	33.77	46.00	12.23	100	358	PK	Horizonta	PASS
6	512.828	41.56	-12.87	28.69	46.00	17.31	100	358	PK	Horizonta	PASS
7	51	37.29	-15.71	21.58	40.00	18.42	100	311	AV	Horizonta	PASS
8	98.0032	48.97	-17.95	31.02	48.00	16.98	100	337	AV	Horizonta	PASS
9	125.224	35.11	-20.86	1425	43.50	29.25	100	295	AV	Horizonta	PASS
10	162.562	39.80	-20.82	18.98	43.50	24.52	100	286	AV	Horizonta	PASS
11	255.907	39.95	-17.61	22.34	46.00	23.66	100	2	AV	Horizonta	PASS
12	512.828	30.26	-12.87	17.39	46.00	28.61	100	26	AV	Horizonta	PASS

Note:1. Result (dB $\mu$ V/m) = Reading(dB $\mu$ V/m) + Factor (dB).

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

#### Vertical (TX-98.0MHz)

#### Test Graph

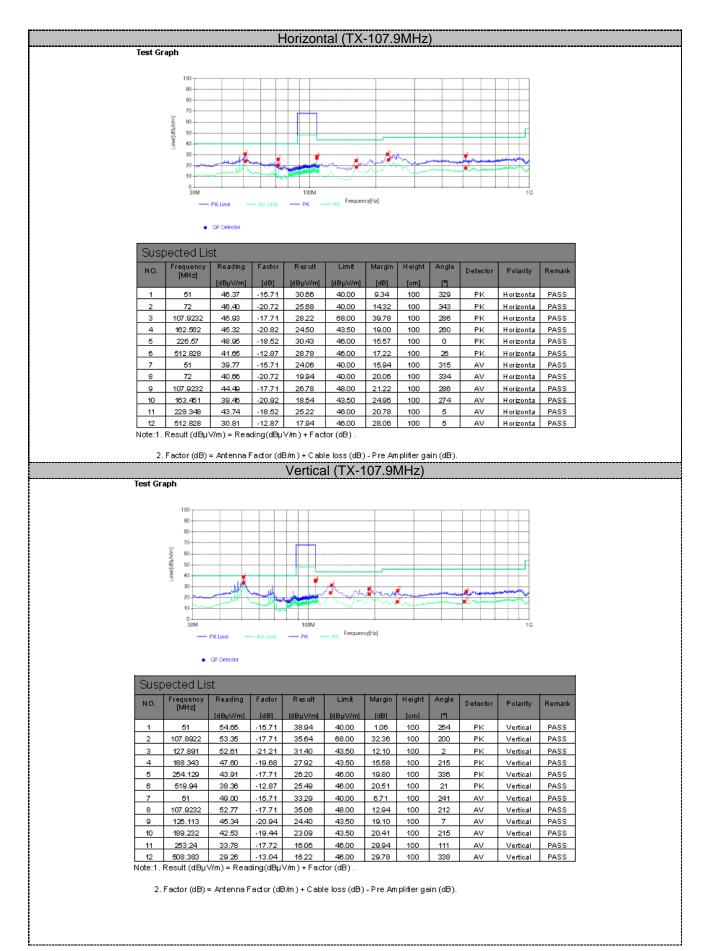


QP Detecto

Susp	ected Lis	st									
NO.	Frequency [MHz]	Reading	Factor	Result	Limit	Margin	Height	Angle	Detector	Polarity	Remark
	[101112]	[dBµV/m]	[48]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	۳۱			
1	51	52.16	-15.71	36.45	40.00	3.55	100	246	PK	Vertical	PASS
2	97.9878	51.68	-17.96	33.72	68.00	34.28	100	158	PK	Vertical	PASS
3	127.891	52.60	-21.21	31.39	43.50	12.11	100	314	PK	Vertical	PASS
4	190.121	47.38	-19.52	27.86	43.50	15.64	100	183	PK	Vertical	PASS
5	255.907	46.21	-17.61	28.60	46.00	17.40	100	358	PK	Vertical	PASS
6	563,501	39.64	-12.40	27.24	46.00	18.76	100	163	PK	Vertical	PASS
7	50.8	46.21	-15.67	30.54	40.00	9.46	100	240	AV	Vertical	PASS
8	97.9878	50.76	-17.96	32.80	48.00	15.20	100	145	AV	Vertical	PASS
9	124.335	44.48	-20.59	23.89	43.50	19.61	100	3	AV	Vertical	PASS
10	189.232	41.35	-19.44	21.91	43.50	21.59	100	288	AV	Vertical	PASS
11	259.463	33.35	-17.52	15.83	46.00	30.17	100	117	AV	Vertical	PASS
12	565.279	30.50	-12.36	18.14	46.00	27.86	100	3	AV	Vertical	PASS

Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB).

 $2.\,Factor\,(dB) = Antenna\,Factor\,(dB/m\,) + C\,able\,loss\,(dB) - P\,re\,Am\,plifier\,gain\,(dB).$ 



Note: The result below 30MHz and above 1GHz is too low so there is no record. The test setup show in the test setup photograph is the worst case.

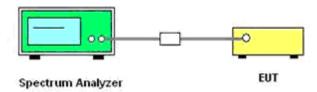
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#### 4.3. 99% Bandwidth

#### Limit

According to §15.239 (a) Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108MHz.

#### **Block Diagram of Test Setup**



#### **Test Procedure**

- 1) The transmitter shall be operated at its maximum carrier power measured under normal test conditions
- 2) The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- 3) The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.
- 4) Detector function = peak.
- 5) Trace = max hold.

#### **Test Results**

Frequency (MHz)	20dB Bandwidth (KHz)	99% Bandwidth (KHz)	Limit (KHz)	Conclusion
88.1	52.33	48.794	200.00	PASS
98.0	52.25	48.851	200.00	PASS
107.9	52.02	49.172	200.00	PASS

#### Remark:

- 1. Test results including cable loss;
- 2. Please refer to the following page.



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#### 4.4. Antenna Requirement

#### Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### **Test Result**

The antenna used for this product is Linear Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi.

Reference to the Test Report: GTS20230203009-1-30.

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# 5. TEST SETUP PHOTOS OF THE EUT

Reference to the test report No. GTS20230203009-1-30.

6. EXTERNAL AND INTERNAL PHOTOS OF THE EU	J T
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Reference to the test report No. GTS20230203009-1-30.
End of Report