



**TEST REPORT** PO FUNG ELECTRONIC (HK) INTERNATONAL GROUP COMPANY

Room 1508, 15/F, Office Tower II, Grand Plaza, 625 Nathan Road,

Applicant Name :

Address :

Report Number : FCC ID:

**Test Standard (s)** FCC PART 95

#### **Sample Description**

Product Type:	TWO WAY RADIO
Model No.:	MP1
Multiple Model:	MP-1S; MP-1X; MP-1D; GA-2S; FR-S1;
	FR-88TP; TP-777; SED-8; PX-999X
Trade Mark:	BAOFENG, POFUNG
Date Received:	2022-02-21
Date of Test:	2022-03-02 to 2022-03-05
Report Date:	2022-03-24

LIMITED

2AJGM-MP1

Kowloon, Hong Kong XMTN1220221-05216E-RF

Test Result:

Pass\*

\* In the configuration tested, the EUT complied with the standards above.

#### Prepared and Checked By:

Bluek

Black Ding EMC Engineer **Approved By:** 

Candry . Li

Candy Li EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★". Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. D: that may affect test results are marked with an asterisk "\*". Customer model name, addresses, names, trademarks etc. are no considered data. This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the re refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available above version 7.0.

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FCC-Part 95

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# **GENERAL INFORMATION**

Product	TWO WAY RADIO
Tested Model	MP1
Multiple Model:	MP-1S; MP-1X; MP-1D; GA-2S; FR-S1; FR-88TP; TP-777; SED-8; PX-999X
Model difference:	Please refer to DOS letter
Trademark:	BAOFENG, POFUNG
Frequency Range	462.5500~462.7250MHz
Transmit Power (ERP)	30.76dBm
Channel Spacing	12.5kHz
Modulation Technique	FM
Antenna Specification*	1.5dBi(It is provided by the applicant)
Voltage Range	DC 3.7V from battery
Sample serial number	XMTN1220221-05216E-RF-S1 (Assigned by ATC)
Received date	2022-02-21
Sample/EUT Status	Good condition

#### **Product Description for Equipment Under Test (EUT)**

#### Objective

This test report is in accordance with Part 2 and Part 95, Subpart A & Subpart B of the Federal Communication Commissions rules.

#### **Test Methodology**

All tests and measurements indicated in this document were performed in accordance with Part 95 Subpart A, Subpart B of the Federal Communication Commissions rules with TIA-603-E, Land Mobile FM or PM-Communications Equipment-Measurement and Performance Standards.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

#### **Measurement Uncertainty**

Parameter		Uncertainty
Occupied Cha	nnel Bandwidth	5%
RF Fr	equency	$0.082*10^{-7}$
RF output po	wer, conducted	0.73dB
Unwanted Emi	ission, conducted	1.6dB
Audio Frequency Response		0.1dB
Low Pass F	ilter Response	1.2dB
Modulati	on Limiting	1%
Emissions,	30MHz - 1GHz	4.28dB
Radiated	1GHz - 18GHz	4.98dB
Temperature		1 °C
Hui	nidity	6%
Supply	voltages	0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

#### **Test Facility**

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

# SYSTEM TEST CONFIGURATION

#### **Description of Test Configuration**

The system was configured for testing in a typical fashion (as normally used by a typical user).

Channel No.	Channel Frequency (MHz)	Channel No.	Channel Frequency (MHz)
1	462.5625	9	462.5750
2	462.5875	10	462.6000
3	462.6125	11	462.6250
4	462.6375	12	462.6500
5	462.6625	13	462.6750
6	462.6875	14	462.7000
7	462.7125	15	462.7250
8	462.5500	/	/

FRS Channel List

# **Equipment Modifications**

No modification was made to the EUT tested.

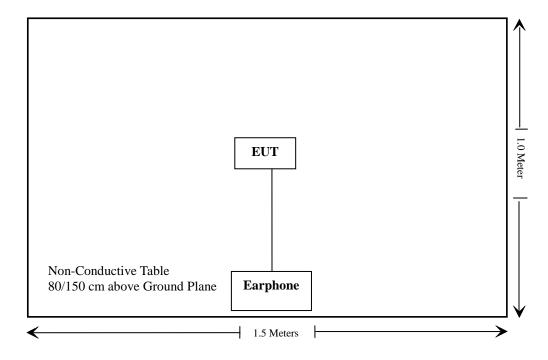
#### **Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number	
Unknown	Earphone	Unknown	Unknown	

#### **External I/O Cable**

Cable Description	Length (m)	From Port	То
Un-shielding Detachable Earphone Cable	1.0	EUT	earphone

# **Block Diagram of Test Setup**



# **SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Results
§2.1093	RF Exposure	Compliant
§95.587(b)(1)(2)(3)	Antenna Requirement	Compliant
§2.1046, §95.567	RF Output Power	Compliant
§2.1047, §95.575	Modulation Characteristic	Compliant
§2.1049, §95.573, §95.579	Authorized Bandwidth & Emission Mask	Compliant
§2.1053, §95.579	Radiated Spurious Emission	Compliant
§2.1055(d), §95.565	Frequency Stability	Compliant

# **TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
	Radiated Emissions Test						
Rohde & Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12		
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12		
A.H. Systems, inc.	Preamplifier	PAM-0118P	531	2021/11/09	2022/11/08		
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/12/13	2022/12/12		
Schwarzbeck	Bilog Antenna	VULB9163	9163-194	2020/01/05	2023/01/04		
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2020/01/05	2023/01/04		
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-655	2020/01/05	2023/01/04		
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04		
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.16	N200	2021/12/14	2022/12/13		
AGILENT	Vector Signal Generator	N5182A MY50143401		2021/12/14	2022/12/13		
Mini-Circuits	High Pass Filter	NHP-600+ 15542		2021/12/14	2022/12/13		
Radiated Emission Tes	t Software: e3 19821b(V	9)					
		RF Conducted T	lest				
Rohde & Schwarz	Spectrum Analyzer	FSV40	101495	2021/12/13	2022/12/12		
Aeroflex/Weinschel	30dB Attenuator (Input 250W/Output 50W)	58-30-33	PS467	2021/12/14	2022/12/13		
HP Agilent	RF Communication Test Set	8920B	3325U00859	2021/03/15	2022/03/15		
Gongwen	Temp. & Humid. Chamber	HSD-500	109	2021/10/14	2022/10/13		
UNI-T	DC Power Supply	UTP8305B	10584	NCR	NCR		
Fluke	Desktop Multi Meter	45	7664009	2021/12/14	2022/12/13		

\* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

# **§2.1093 - RF EXPOSURE INFORMATION**

#### **Applicable Standard**

§2.1093.

### **Test Result**

Compliance, please refer to the SAR report: CR22020028-SA.

# FCC §95.587(b)(1)(2)(3) – ANTENNA REQUIREMENT

#### **Applicable Standard**

According to FCC § 95.587, (b) Antenna. The antenna of each FRS transmitter type must meet the following requirements.

- (1) The antenna must be a non-removable integral part of the FRS transmitter type.
- (2) The gain of the antenna must not exceed that of a half-wave dipole antenna.
- (3) The antenna must be designed such that the electric field of the emitted waves is vertically polarized when the unit is operated in the normal orientation.

#### **Antenna Description**

The EUT has an integral vertically ploarized antenna arrangement and the antenna gain is 1.5dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

# FCC §2.1046 & §95.567 - RF OUTPUT POWER

#### **Applicable Standard**

Per FCC §2.1046, and §95.567, Each FRS transmitter type must be designed such that the effective radiated power (ERP) on channels 8 through 14 does not exceed 0.5 Watts and the ERP on channels 1 through 7 and 15 through 22 does not exceed 2.0 Watts.

#### **Test Procedure**

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the emissions were measured by the substitution.

#### Test Data

#### **Environmental Conditions**

Temperature:	23 °C
<b>Relative Humidity:</b>	57 %
ATM Pressure:	101.2kPa

The testing was performed by Chao Mo on 2022-03-05.

Test Mode: Transmitting

Frequency	Rece	eiver	Turntable	Rx Ar	ntenna	Substituted	Absolute	Limit	Margin
(MHz)	Reading (dBm)	PK/Ave	Angle Degree	Height (m)	Polar (H/V)	Factor (dB)	Level (dBm)	(dBm)	(dB)
				462.637	5MHz				
462.6375	-22.85	РК	103	2.1	Н	40.12	17.27	33	-15.73
462.6375	-5.26	РК	78	1.9	V	36.02	30.76	33	-2.24

#### Note:

Absolute Level = Reading Level + Substituted Factor Substituted Factor contains: SG Level - Cable loss+ Antenna Gain Margin = Absolute Level – Limit

Test Result: Compliant.

# FCC §2.1047 & §95.575 - MODULATION CHARACTERISTIC

#### **Applicable Standard**

Per FCC §2.1047 and §95.575: Each FRS transmitter type must be designed such that the peak frequency deviation does not exceed 2.5 kHz, and the highest audio frequency contributing substantially to modulation must not exceed 3.125 kHz.

#### **Test Procedure**

Test Method: TIA/EIA-603-E

#### **Test Data**

#### **Environmental Conditions**

Temperature:	24 °C
<b>Relative Humidity:</b>	56 %
ATM Pressure:	101.3 kPa

The testing was performed by Pual Liu on 2022-03-02.

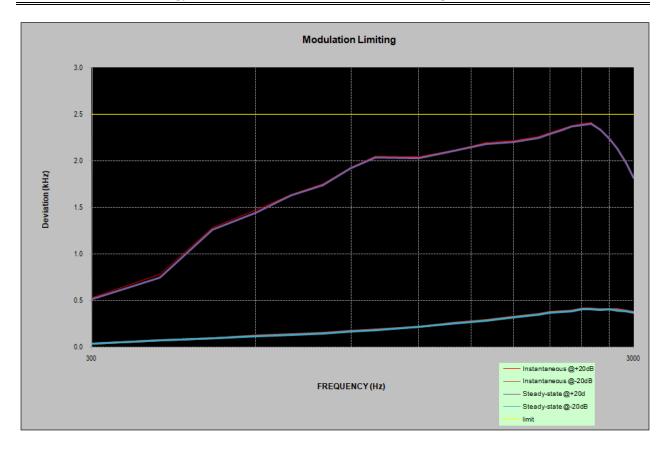
Please refer to the following tables and plots.

Test Mode: Transmitting

#### **MODULATION LIMITING**

	Instant	aneous	Steady		
Audio Frequency (Hz)	DEVIATION (@+20dB) [kHz]	DEVIATION (@-20dB) [kHz]	DEVIATION (@+20dB) [kHz]	DEVIATION (@-20dB) [kHz]	Limit [kHz]
300	0.527	0.032	0.513	0.030	2.500
400	0.782	0.070	0.746	0.067	2.500
500	1.279	0.093	1.255	0.088	2.500
600	1.468	0.122	1.438	0.115	2.500
700	1.637	0.134	1.625	0.129	2.500
800	1.749	0.152	1.737	0.144	2.500
900	1.926	0.167	1.915	0.160	2.500
1000	2.048	0.183	2.034	0.177	2.500
1200	2.037	0.216	2.028	0.211	2.500
1400	2.114	0.254	2.103	0.247	2.500
1600	2.189	0.283	2.177	0.277	2.500
1800	2.213	0.322	2.201	0.313	2.500
2000	2.257	0.351	2.243	0.345	2.500
2100	2.298	0.371	2.286	0.367	2.500
2200	2.337	0.383	2.322	0.375	2.500
2300	2.376	0.389	2.365	0.382	2.500
2400	2.397	0.407	2.378	0.401	2.500
2500	2.406	0.413	2.398	0.404	2.500
2600	2.334	0.403	2.327	0.397	2.500
2700	2.241	0.405	2.235	0.399	2.500
2800	2.133	0.404	2.125	0.391	2.500
2900	1.983	0.387	1.977	0.381	2.500
3000	1.824	0.373	1.818	0.366	2.500

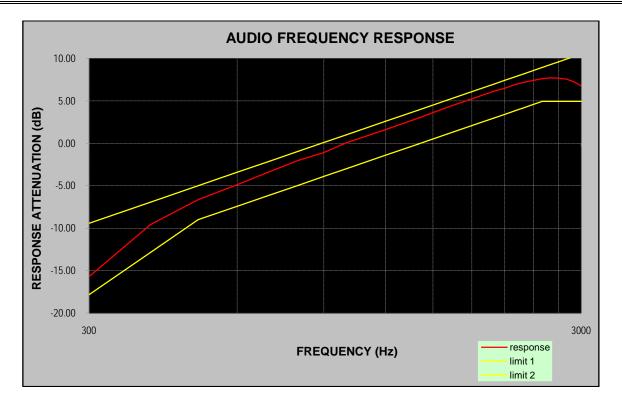
Carrier Frequency: 462.6375MHz



#### Audio Frequency Response

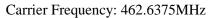
Carrier Frequency: 462.6375MHz

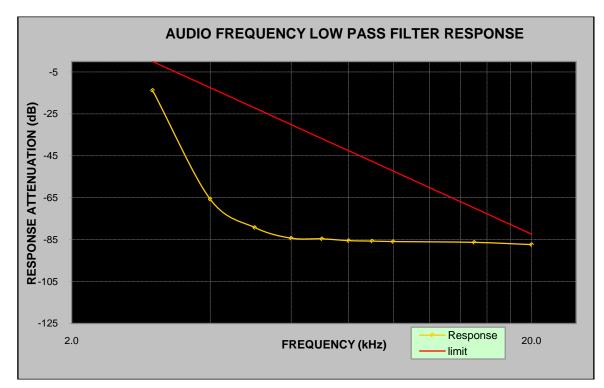
Audio Frequency (Hz)	Response Attenuation (dB)	
300	-15.70	
400	-9.58	
500	-6.63	
600	-4.88	
700	-3.32	
800	-2.00	
900	-1.09	
1000	0	
1200	1.60	
1400	2.96	
1600	4.22	
1800	5.25	
2000	6.17	
2100	6.49	
2200	6.91	
2300	7.21	
2400	7.41	
2500	7.62	
2600	7.71	
2700	7.67	
2800	7.57	
2900	7.24	
3000	6.76	



#### Audio frequency lows pass filter response

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
1.0	0	/
3.0	-13.8	0
4.0	-65.7	-12.5
5.0	-79.2	-22.2
6.0	-84.3	-30.1
7.0	-84.6	-36.8
8.0	-85.5	-42.6
9.0	-85.7	-47.7
10.0	-85.9	-52.3
15.0	-86.3	-69.9
20.0	-87.4	-82.4





# FCC §2.1049 & §95.573 & §95.579 - AUTHOURIZED BANDWIDTH AND EMISSION MASK

#### **Applicable Standard**

According to §95.573. Each FRS transmitter type must be designed such that the occupied bandwidth does not exceed 12.5 kHz.

Each FRS transmitter type must be designed to satisfy the applicable unwanted emissions limits in this paragraph.

(a) Attenuation requirements. The power of unwanted emissions must be attenuated below the carrier power output in Watts (P) by at least:

(1) 25 dB (decibels) in the frequency band 6.25 kHz to 12.5 kHz removed from the channel center frequency.

(2) 35 dB in the frequency band 12.5 kHz to 31.25 kHz removed from the channel center frequency.

(3)  $43 + 10 \log (P) dB$  in any frequency band removed from the channel center frequency by more than 31.25 kHz.

(b) Measurement bandwidths. The power of unwanted emissions in the frequency bands specified in paragraphs (a)(1) and (2) of this section is measured with a reference bandwidth of 300 Hz. The power of unwanted emissions in the frequency range specified in paragraph (a)(3) is measured with a reference bandwidth of at least 30 kHz.

#### **Test Procedure**

TIA-603-E, section 2.2.11

#### **Test Data**

#### **Environmental Conditions**

Temperature:	24 °C	
<b>Relative Humidity:</b>	56 %	
ATM Pressure:	101.3 kPa	

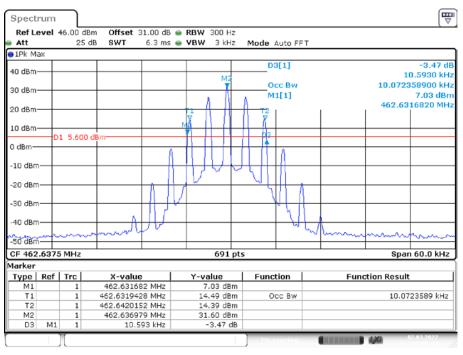
The testing was performed by Pual Liu on 2022-03-02.

Test Mode: Transmitting

Modulation	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26dB Emissions Bandwidth (kHz)
Analog	462.6375	10.072	10.593

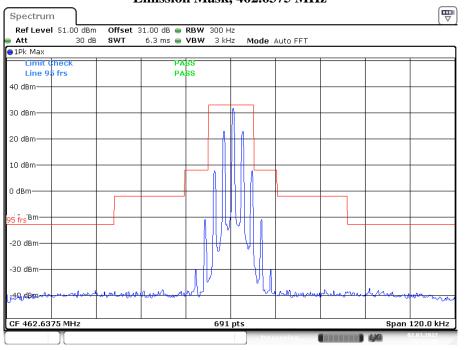
Emission Designator Per CFR 47 2.201& 2.202&, Bn = 2M + 2D :

Emission Designator 11K0F3E In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation. BW =  $2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} \rightarrow 11\text{ kHz}$ F3E portion of the designator represents an FM voice transmission Therefore, the entire designator for 12.5 kHz channel spacing FM mode is 11K0F3E.



OBW, 462.6375 MHz

Date: 2.MAR.2022 15:56:11



#### Emission Mask, 462.6375 MHz

Date: 2.MAR.2022 17:27:10

Shenzhen Accurate Technology Co., Ltd.

# FCC §2.1053 & §95.579- RADIATED SPURIOUS EMISSION

#### **Applicable Standard**

FCC §2.1053 and §95.579. Each FRS transmitter type must be designed to satisfy the applicable unwanted emissions limits in this paragraph.

(a) *Attenuation requirements*. The power of unwanted emissions must be attenuated below the carrier power output in Watts (P) by at least:

(1) 25 dB (decibels) in the frequency band 6.25 kHz to 12.5 kHz removed from the channel center frequency.

(2) 35 dB in the frequency band 12.5 kHz to 31.25 kHz removed from the channel center frequency. (3)  $43 + 10 \log (P) \text{ dB}$  in any frequency band removed from the channel center frequency by more than 31.25 kHz.

(b) *Measurement bandwidths*. The power of unwanted emissions in the frequency bands specified in paragraphs (a)(1) and (2) of this section is measured with a reference bandwidth of 300 Hz. The power of unwanted emissions in the frequency range specified in paragraph (a)(3) is measured with a reference bandwidth of at least 30 kHz.

(c) *Measurement conditions*. The requirements in this section apply to each FRS transmitter type both with and without the connection of permitted attachments, such as an external speaker, microphone and/or power cord.

#### **Test Procedure**

The transmitter was placed on a wooden turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB =10 1g (TXpwr in Watts/0.001)-the absolute level Spurious attenuation limit in dB =  $43+10 \text{ Log}_{10}$  (power out in Watts)

#### Test Data

#### **Environmental Conditions**

Temperature:	23 °C	
<b>Relative Humidity:</b>	57 %	
ATM Pressure:	101.2 kPa	

The testing was performed by Chao Mo on 2022-03-05

#### Test Mode: Transmitting

(Scan with X axis, Y axis, Z axis, the worst case is Y axis)

#### Shenzhen Accurate Technology Co., Ltd.

#### 30MHz - 5GHz:

Frequency (MHz) Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted	Absolute			
		Height (m)	Polar (H/V)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	
	462.6375MHz							
925.275	-50.33	85	2.1	Н	9.27	-41.06	-13	-28.06
925.275	-33.25	161	1.9	V	11.55	-21.70	-13	-8.70
1387.9125	-43.66	211	1.3	Н	6.02	-37.64	-13	-24.64
1387.9125	-48.59	244	1.1	V	5.83	-42.76	-13	-29.76
1850.55	-31.45	6	1.6	Н	4.4	-27.05	-13	-14.05
1850.55	-39.46	229	1.4	V	3.6	-35.86	-13	-22.86
3701.1	-43.78	163	2.0	Н	8.12	-35.66	-13	-22.66
3701.1	-43.66	132	1.4	V	7.61	-36.05	-13	-23.05

Note:

Absolute Level = Reading Level + Substituted Factor Substituted Factor contains: SG Level - Cable loss+ Antenna Gain

Margin = Absolute Level - Limit

# FCC§2.1055 (d) & §95.565 - FREQUENCY STABILITY

#### **Applicable Standard**

According to FCC 2.1055(a) (1), the frequency stability shall be measured with variation of ambient temperature from -30 °C to +50 °C, and according to FCC 2.1055(d) (2), the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point which is specified by the manufacturer.

According to FCC 95.565, Each FRS transmitter type must be designed such that the carrier frequencies remain within  $\pm 2.5$  parts-per-million of the channel center frequencies specified in 95.563 during normal operating conditions.

#### **Test Procedure**

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Frequency Counter via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Frequency Counter.

Frequency Stability vs. Voltage (item 1or item 2 will be chosen according to different condition) :

□1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

 $\boxtimes$ 2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.

The output frequency was recorded for each voltage.

#### **Test Data**

#### **Environmental Conditions**

Temperature:	24 °C	
<b>Relative Humidity:</b>	56 %	
ATM Pressure:	101.3 kPa	

The testing was performed by Pual Liu on 2022-03-02.

Test Mode: Transmitting

Shenzhen Accurate Technology Co., Ltd.

Reference Frequency:462.6375MHz, Limit:2.5 ppm					
Environment Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Measurement Frequency (MHz)	Frequency Error (ppm)		
	Frequency Stability v	ersus Input Temperature			
50	3.7	462.637549	0.106		
40	3.7	462.637557	0.123		
30	3.7	462.637553	0.115		
20	3.7	462.637552	0.112		
10	3.7	462.637548	0.104		
0	3.7	462.637551	0.110		
-10	3.7	462.637559	0.128		
-20	3.7	462.637558	0.125		
-30	3.7	462.637554	0.117		
Frequency Stability versus Input Voltage					
20	3.15	462.637552	0.112		
20	4.26	462.637557	0.123		

Note: The battery operating end point voltage is 3.15V which was provided by the applicant.

#### \*\*\*\*\* END OF REPORT \*\*\*\*\*