



FCC PART 95

MEASUREMENT AND TEST REPORT

For

GOCOM Technology Co., Ltd.

UNIT12, 14/F, LIPPO SUN PLAZA, 28 CANTON ROAD TSIM SHA TSUI, KOWLOON, Hong Kong, China

FCC ID: 2ARRE-2020GA80

Report Type: Original Report	Product Type: walkie talkie
Report Number: RSZ201222008-00A	
Report Date: 2021-01-29	
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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

EUT Name:	walkie talkie
EUT Model:	GA80
Operation Frequency:	462.5500-462.7250MHz 467.5625-467.7125MHz
Modulation Mode:	FM
Channel Spacing:	12.5kHz
Emission Designator:	11K0F3E
Maximum Output Power: (ERP)	462.5500-462.7250MHz: 31.89 dBm 467.5625-467.7125MHz: 25.00dBm
Rated Input Voltage:	DC 3.7V from Battery
Adapter 1# Information	Model: TPA-97H05005UU01
	Input: 100~240V 50/60Hz 0.15A
	Output: 5.0V 550mA
Adapter 2# Information	Model: TPA-97H050100UW01
	Input: 100~240V 50/60Hz 0.15A
	Output: 5.0V 1000mA
Serial Number:	RSZ201222008-RF-S1
EUT Received Date:	2020.12.23
EUT Received Status:	Good

Objective

This report is prepared on behalf of **GOCOM Technology Co., Ltd.** in accordance with Part 2 and Part 95, Subpart A and B of the Federal Communication Commissions rules.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with:

The Code of federal Regulations Title 47, Part 2, Part 95 Subpart A and Subpart B

ANSI C63.26-2015, American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

TIA-603-E-2016, Land Mobile FM or PM Communications Equipment Measurement and Performance Standards

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Dongguan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Unwanted Emissions, radiated	30MHz ~ 1GHz: 5.85 dB 1G~26.5GHz: 5.23 dB
Unwanted Emissions, conducted	±1.5 dB
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier : CN0022.

Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

The device uses total 22 FRS channels as below:

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	462.5625	12	467.6625
2	462.5875	13	467.6875
3	462.6125	14	467.7125
4	462.6375	15	462.5500
5	462.6625	16	462.5750
6	462.6875	17	462.6000
7	462.7125	18	462.6250
8	467.5625	19	462.6500
9	467.5875	20	462.6750
10	467.6125	21	462.7000
11	467.6375	22	462.7250

Equipment Modifications

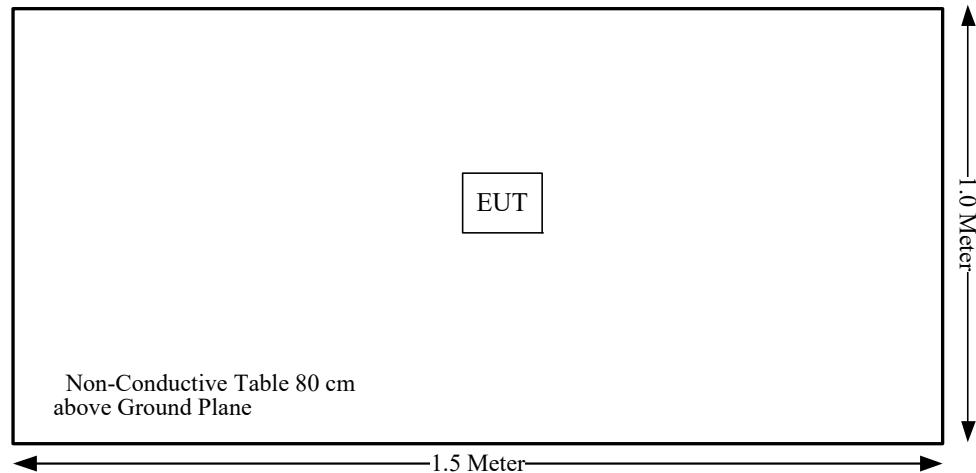
No modification was made to the EUT tested.

EUT Exercise Software

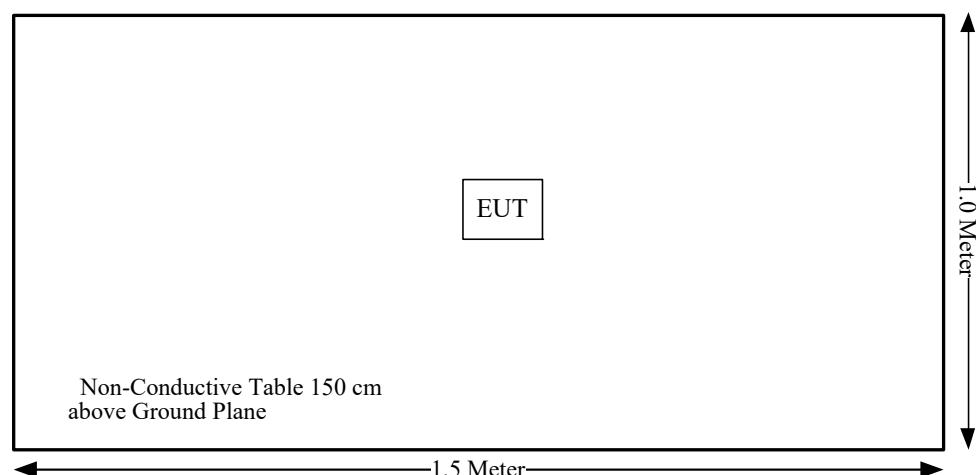
No software was used during test.

Block Diagram of Test Setup

Radiation Below 1GHz:



Radiation Above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§2.1093	RF Exposure	Compliance
§2.1046, §95.567	RF Output Power	Compliance
§2.1047, §95.575	Modulation Characteristic	Compliance
§2.1049, §95.573, §95.579	Authorized Bandwidth & Emission Mask	Compliance
§2.1053, §95.579	Spurious Radiated Emissions	Compliance
§2.1055(d), §95.565	Frequency Stability	Compliance

FCC §2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Test Result

Please refer to SAR Report Number: RSZ201222008-20A.

FCC §2.1046, §95.567 - RF OUTPUT POWER

Applicable Standard

According to FCC §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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB3	A060611-1	2020-11-10	2023-11-10
R&S	EMI Test Receiver	ESR3	102453	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2020-05-06	2021-05-06
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2020-09-05	2021-09-05
Agilent	Signal Generator	E8247C	MY43321350	2020-12-09	2021-12-08

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	20.1 °C
Relative Humidity:	30 %
ATM Pressure:	101.8kPa
Test by:	Jalon Liu
Test Date:	2021.01.08

Test Mode: Transmitting

Test Result: Compliance. Please refer to following table.

ERP:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:462.6375MHz								
462.6375	H	92.78	11.45	0.00	0.67	10.78	33.00	22.22
462.6375	V	110.94	32.56	0.00	0.67	31.89	33.00	1.11
Frequency:467.6375MHz								
467.6375	H	83.92	2.72	0.00	0.68	2.04	27.00	24.96
467.6375	V	103.91	25.68	0.00	0.68	25.00	27.00	2.00

Test Result: Compliance.

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 Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005012	Each Time	/
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	Each Time	/
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	OE01203239	Each Time	/
HP	RF Communications Test Set	8920A	3438A05201	2020-05-09	2021-05-09
UNI-T	Multimeter	UT39A	M130199938	2020-07-23	2021-07-23

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

Test Method: ANSI C63.26-2015

Test Data

Environmental Conditions

Temperature:	21~24.5 °C
Relative Humidity:	32~44 %
ATM Pressure:	101.0~102.4 kPa
Test by:	James Chen
Test Date:	2020.12.25~2021.01.04

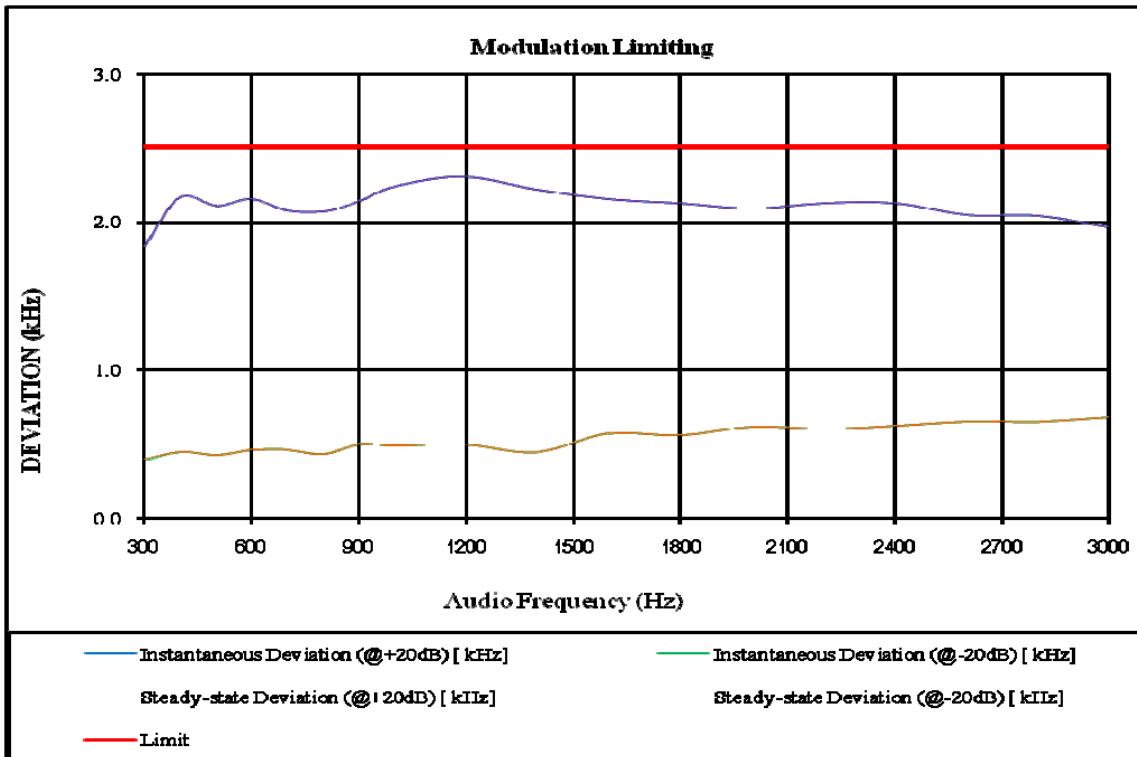
Test Mode: Transmitting

Test Result: Compliance. Please refer to following table.

MODULATION LIMITING

Carrier Frequency: 462.6375 MHz

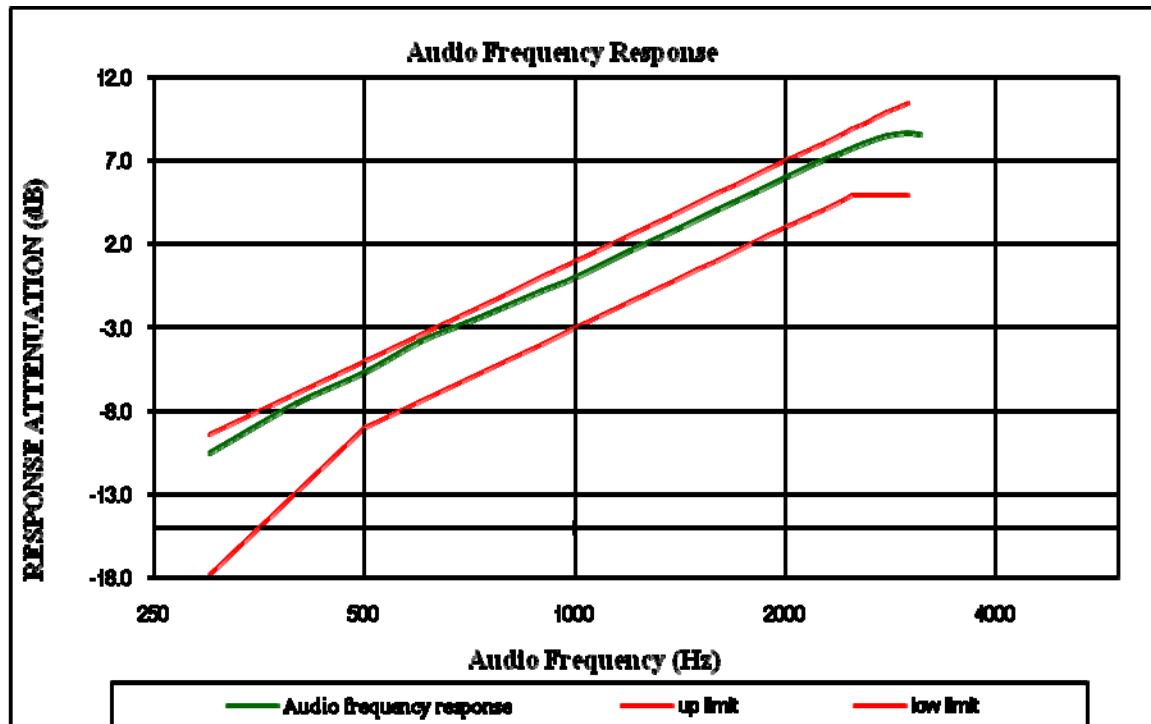
Audio Frequency (Hz)	Instantaneous		Steady-state		Limit [kHz]
	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	
300	1.827	0.394	1.827	0.394	2.5
400	2.165	0.448	2.165	0.448	2.5
500	2.110	0.424	2.110	0.424	2.5
600	2.152	0.458	2.152	0.458	2.5
700	2.076	0.462	2.076	0.462	2.5
800	2.071	0.433	2.071	0.433	2.5
900	2.137	0.499	2.137	0.499	2.5
1000	2.240	0.489	2.240	0.489	2.5
1200	2.303	0.497	2.303	0.497	2.5
1400	2.215	0.446	2.215	0.446	2.5
1600	2.154	0.572	2.154	0.572	2.5
1800	2.126	0.561	2.126	0.561	2.5
2000	2.094	0.618	2.094	0.618	2.5
2200	2.125	0.603	2.125	0.603	2.5
2400	2.124	0.622	2.124	0.622	2.5
2600	2.048	0.652	2.048	0.652	2.5
2800	2.042	0.648	2.042	0.648	2.5
3000	1.966	0.678	1.966	0.678	2.5



Audio Frequency Response

Carrier Frequency: 462.6375 MHz

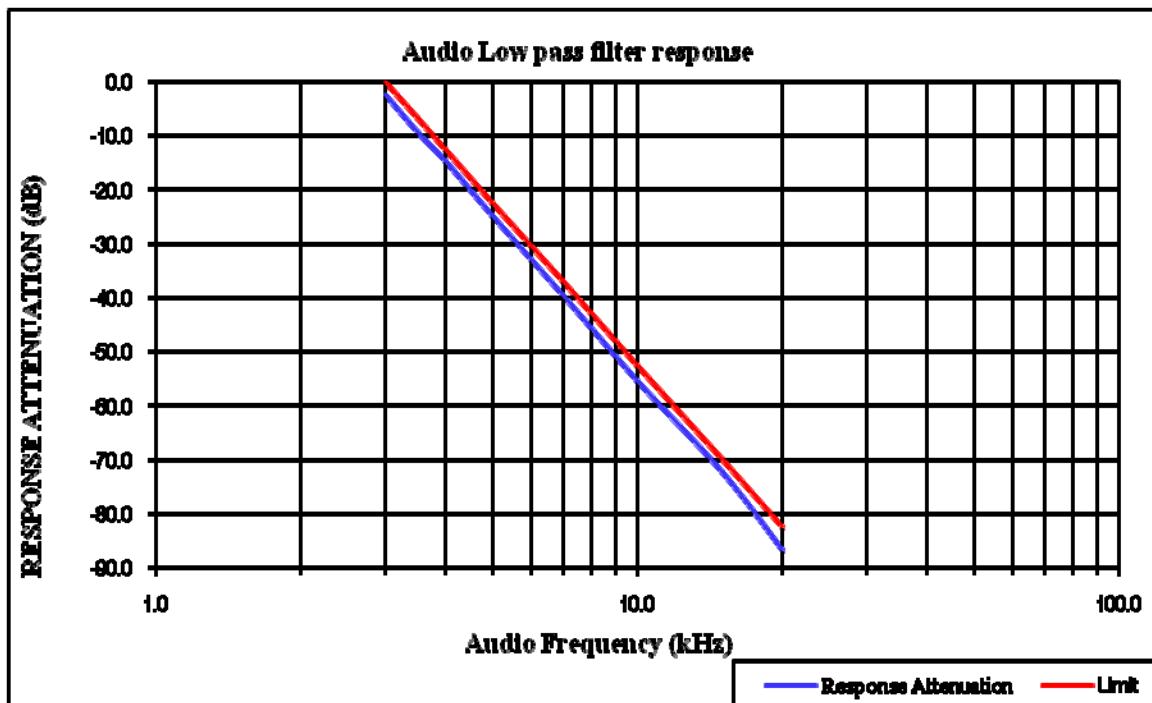
Audio Frequency (Hz)	Response Attenuation (dB)
300	-10.50
400	-7.53
500	-5.67
600	-3.80
700	-2.70
800	-1.69
900	-0.79
1000	0.00
1200	1.62
1400	2.94
1600	4.10
1800	5.10
2000	5.98
2200	6.80
2400	7.48
2600	8.07
2800	8.50
3000	8.68
3125	8.60



Audio Low Pass Filter Response

Carrier Frequency: 462.6375 MHz

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
3.0	-2.4	0.0
3.5	-9.4	-6.7
4.0	-14.7	-12.5
5.0	-24.8	-22.2
7.0	-39.5	-36.8
10.0	-55.3	-52.3
15.0	-72.2	-69.9
20.0	-86.6	-82.5
30.0	-85.8	-82.5
50.0	-86.0	-82.5
70.0	-85.6	-82.5



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.

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

Test Procedure

Test Method: ANSI C63.26-2015

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU 26	200256	2020-07-07	2021-07-07
R&S	Spectrum Analyzer	FSV40	101474	2020-07-07	2021-07-07
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005012	Each Time	/
Weinschel	Coaxial Attenuators	53-20-34	LN749	Each Time	/
HP	RF Communications Test Set	8920A	3438A05201	2020-07-07	2021-07-07

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	23.5~24.5 °C
Relative Humidity:	30~36 %
ATM Pressure:	100.8~101.0 kPa
Test by:	James Chen
Test Date:	2020.12.29~2021.01.20

Test Mode: Transmitting

fc (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)
462.6375	5.609	12.50
467.6375	5.769	12.50

Note: Emission bandwidth was based on calculation method instead of measurement.

Emission Designator

Per CFR 47 §2.201& §2.202, BW = 2M + 2D

For FM Mode (Channel Spacing: 12.5 kHz)

Emission Designator 11K0F3E

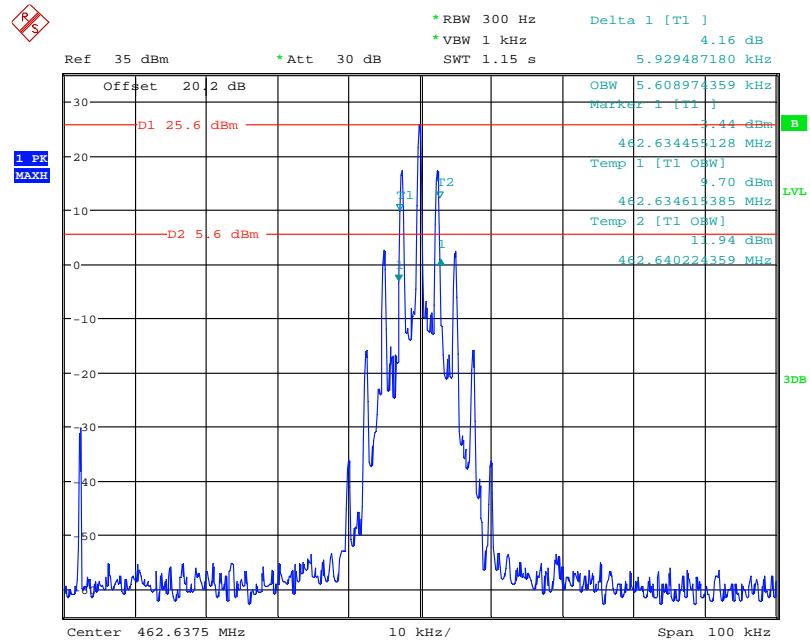
In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} = 11\text{K}0$

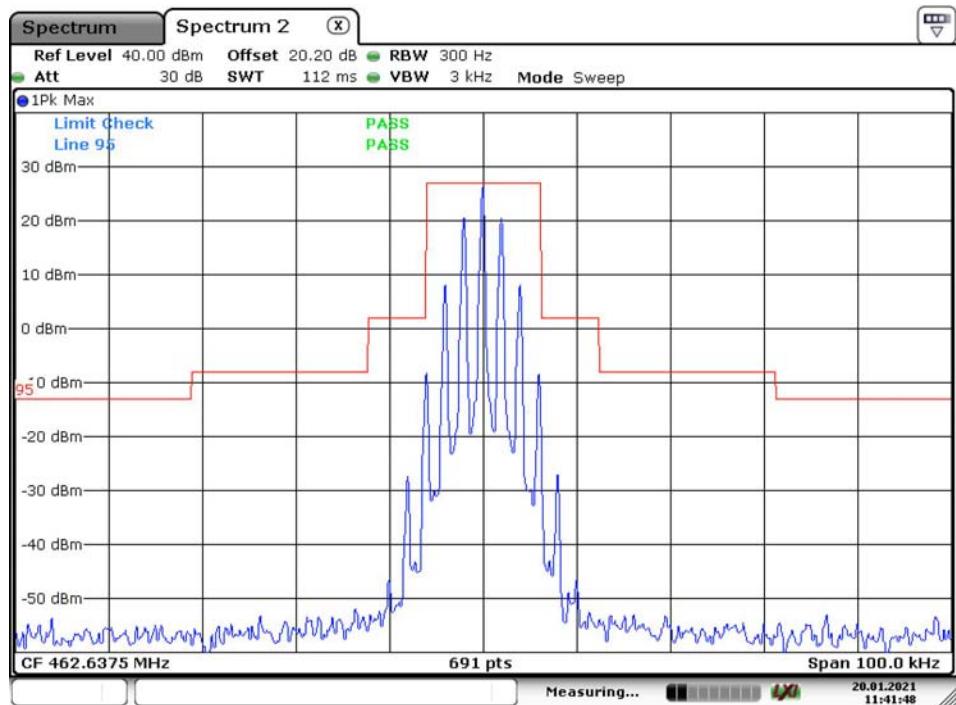
F3E portion of the designator represents an FM voice transmission

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

462.6375 MHz

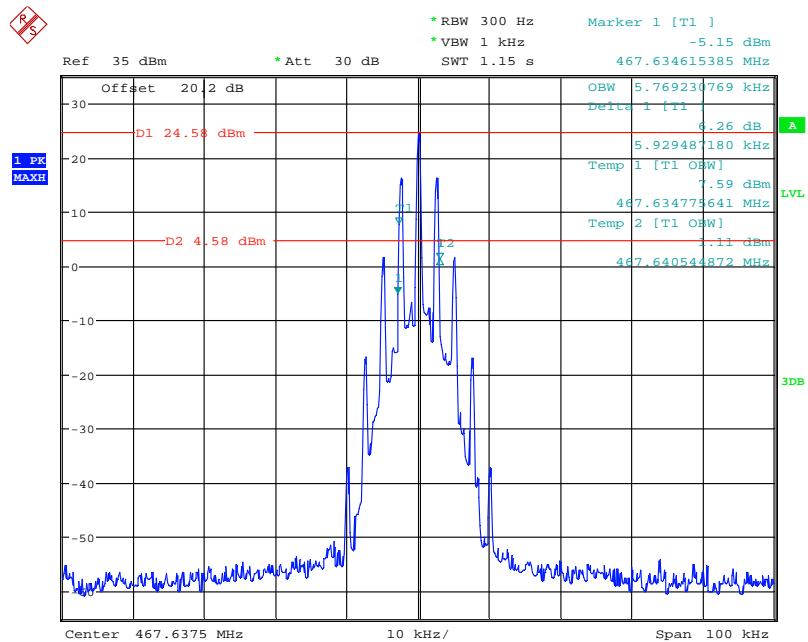


Date: 29.DEC.2020 22:44:51

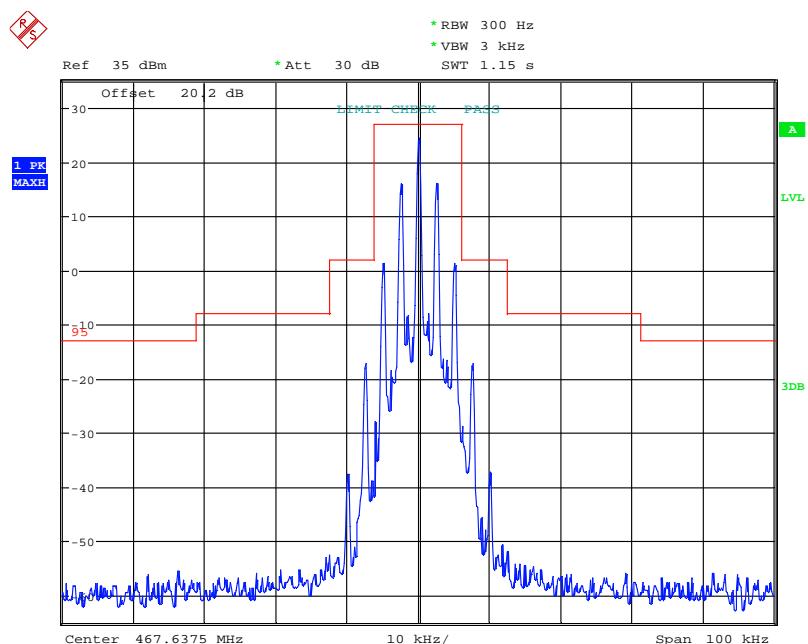


Date: 20.JAN.2021 11:41:48

467.6375 MHz



Date: 29.DEC.2020 22:36:54



Date: 29.DEC.2020 22:38:16

FCC §2.1053 & §95.579 - RADIATED SPURIOUS EMISSION

Applicable Standard

FCC §2.1053 and §95.579

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.

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 $\lg(\text{TXpwr in Watts}/0.001)$ - the absolute level
 Spurious attenuation limit in dB = $43 + 10 \log_{10}(\text{power out in Watts})$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB3	A060611-1	2020-11-10	2023-11-10
R&S	EMI Test Receiver	ESR3	102453	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2020-05-06	2021-05-06
HP	Amplifier	8447D	2727A05902	2020-09-05	2021-09-05
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2020-09-05	2021-09-05
Agilent	Signal Generator	E8247C	MY43321350	2020-12-09	2021-12-08
TDK RF	Horn Antenna	HRN-0118	130 084	2018-10-12	2021-10-12
R&S	Spectrum Analyzer	FSP 38	100478	2020-07-07	2021-07-07
HUBER+SUHNE R	Coaxial Cable	SUCOFLEX 126EA	MY369/26/26EA	2020-09-25	2021-09-25
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2020-09-05	2021-09-05
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2020-09-05	2021-09-05
Agilent	Signal Generator	E8247C	MY43321350	2020-12-09	2021-12-08

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	20.1 °C	21.7 °C
Relative Humidity:	30 %	36 %
ATM Pressure:	101.8kPa	101.2 kPa
Tester:	Jalon Liu	Joker Chen
Test Date:	2021.01.08	2021.01.07

Test Mode: Transmitting

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
FM, frequency:462.6375MHz								
925.28	H	70.13	-25.96	0.00	0.97	-26.93	-13.00	13.93
925.28	V	66.54	-31.38	0.00	0.97	-32.35	-13.00	19.35
1387.91	H	67.37	-37.01	9.53	1.21	-28.69	-13.00	15.69
1387.91	V	71.07	-33.42	9.53	1.21	-25.10	-13.00	12.10
1850.55	H	53.29	-51.58	11.05	1.20	-41.73	-13.00	28.73
1850.55	V	62.95	-41.86	11.05	1.20	-32.01	-13.00	19.01
2313.19	H	54.88	-49.18	11.94	1.20	-38.44	-13.00	25.44
2313.19	V	61.51	-43.42	11.94	1.20	-32.68	-13.00	19.68
2775.83	H	48.97	-54.20	12.31	1.38	-43.27	-13.00	30.27
2775.83	V	51.56	-52.19	12.31	1.38	-41.26	-13.00	28.26
3238.46	H	49.44	-52.93	12.30	1.55	-42.18	-13.00	29.18
3238.46	V	55.01	-46.58	12.30	1.55	-35.83	-13.00	22.83
3701.10	H	50.54	-50.75	12.24	1.55	-40.06	-13.00	27.06
3701.10	V	49.68	-51.04	12.24	1.55	-40.35	-13.00	27.35
4163.74	H	43.75	-56.21	12.66	1.48	-45.03	-13.00	32.03
4163.74	V	43.27	-57.36	12.66	1.48	-46.18	-13.00	33.18
4626.38	H	39.14	-59.57	13.30	1.51	-47.78	-13.00	34.78
4626.38	V	37.89	-61.01	13.30	1.51	-49.22	-13.00	36.22

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
FM, frequency:467.6375MHz								
935.28	H	47.21	-48.46	0.00	0.94	-49.40	-13.00	36.40
935.28	V	53.77	-43.66	0.00	0.94	-44.60	-13.00	31.60
1402.91	H	53.34	-51.14	9.59	1.23	-42.78	-13.00	29.78
1402.91	V	60.20	-44.37	9.59	1.23	-36.01	-13.00	23.01
1870.55	H	40.13	-64.73	11.11	1.19	-54.81	-13.00	41.81
1870.55	V	47.50	-57.29	11.11	1.19	-47.37	-13.00	34.37
2338.19	H	46.93	-57.08	11.97	1.20	-46.31	-13.00	33.31
2338.19	V	55.60	-49.35	11.97	1.20	-38.58	-13.00	25.58
2805.83	H	45.57	-57.55	12.32	1.40	-46.63	-13.00	33.63
2805.83	V	50.13	-53.47	12.32	1.40	-42.55	-13.00	29.55
3273.46	H	43.71	-58.59	12.29	1.56	-47.86	-13.00	34.86
3273.46	V	47.84	-53.59	12.29	1.56	-42.86	-13.00	29.86
3741.10	H	47.77	-53.39	12.25	1.53	-42.67	-13.00	29.67
3741.10	V	45.34	-55.44	12.25	1.53	-44.72	-13.00	31.72
4208.74	H	44.67	-55.18	12.76	1.49	-43.91	-13.00	30.91
4208.74	V	43.06	-57.42	12.76	1.49	-46.15	-13.00	33.15
4676.38	H	43.18	-55.36	13.26	1.50	-43.60	-13.00	30.60
4676.38	V	39.46	-59.19	13.26	1.50	-47.43	-13.00	34.43

Note 1: The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.

Note 2:

Absolute Level = Substituted Level - Cable loss + Antenna Gain

Margin = Limit- Absolute Level

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 $+50^{\circ}\text{C}$, 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 ± 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:

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

(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 Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005012	Each Time	/
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	Each Time	/
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	OE01203239	Each Time	/
HP	RF Communications Test Set	8920A	3438A05201	2020-05-09	2021-05-09
UNI-T	Multimeter	UT39A	M130199938	2020-07-23	2021-07-23
ESPEC	Constant temperature and humidity Tester	ESX-4CA	018 463	2020-03-10	2021-03-09
Pro instrument	DC Power Supply	pps3300	3300012	N/A	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	22.5 °C
Relative Humidity:	39 %
ATM Pressure:	102 kPa
Test by:	James Chen
Test Date:	2020.12.25

Test Mode: Transmitting

Reference Frequency: 462.6375 MHz				
Temperature	Voltage	Reading	Frequency Error	Limit
°C	Vdc	MHz	ppm	ppm
-30	3.7	462.63719808	-0.65	2.5
-20		462.63738808	-0.24	
-10		462.63774808	0.54	
0		462.63772808	0.49	
10		462.63761808	0.26	
20		462.63740385	-0.21	
30		462.63734808	-0.33	
40		462.63724808	-0.54	
50		462.63773808	0.51	
20	4.2	462.63762808	0.28	
20	3.5	462.63766808	0.36	

Reference Frequency: 467.6375 MHz				
Temperature	Voltage	Reading	Frequency Error	Limit
°C	Vdc	MHz	ppm	ppm
-30	3.7	467.63766808	0.36	2.5
-20		467.63732808	-0.37	
-10		467.63796808	1.00	
0		467.63762808	0.27	
10		467.63721808	-0.60	
20		467.63758013	0.17	
30		467.63799808	1.07	
40		467.63709808	-0.86	
50		467.63756808	0.15	
20	4.2	467.63757808	0.17	
20	3.5	467.63732808	-0.37	

Note: The extreme voltage was declared by applicant.

***** END OF REPORT *****