



## Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100000502

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# TEST REPORT

**Application No.:** FYCR2301000005AT(SGS HK No.: T32220340011EM)  
**Applicant:** THAMES & KOSMOS, LLC.  
**Address of Applicant:** 89 SHIP STREET PROVIDENCE Rhode Islan 02903 United States  
**Manufacturer:** Shenzhen E-style Technology Co.,Ltd  
**Address of Manufacturer:** R502, Fuhong Building, Fuyong, Bao'an, Shenzhen  
**Equipment Under Test (EUT):**  
**EUT Name:** Spy Walkie-Talkies  
**Item No.:** 548016, 1619015, 726913 ♣  
♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.  
**Country Of Origin:** China  
**Country Of Destination:** USA  
**FCC ID:** 2AIAE-548016  
**Standard(s) :** 47 CFR Part 95, Subpart B  
**Date of Receipt:** 2023-01-06  
**Date of Test:** 2023-01-11 to 2023-03-27  
**Date of Issue:** 2023-03-27

|                     |       |
|---------------------|-------|
| <b>Test Result:</b> | Pass* |
|---------------------|-------|

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

Winkey Wang  
EMC Technical Manager



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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2023-03-27 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |                            |  |  |
|--------------------------|--|----------------------------|--|--|
| Authorized for issue by: |  |                            |  |  |
|                          |  | Tree Zhan                  |  |  |
|                          |  | Tree Zhan/Project Engineer |  |  |
|                          |  | Winkey Wang                |  |  |
|                          |  | Winkey Wang/Reviewer       |  |  |



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## 2 Test Summary

| Radio Spectrum Technical Requirement |                           |        |                                     |        |
|--------------------------------------|---------------------------|--------|-------------------------------------|--------|
| Item                                 | Standard                  | Method | Requirement                         | Result |
| Antenna Requirement                  | 47 CFR Part 95, Subpart B | N/A    | 47 CFR Part 95, Subpart B 95.587(b) | Pass   |

| Radio Spectrum Matter Part     |                           |                     |  |        |
|--------------------------------|---------------------------|---------------------|--|--------|
| Item                           | Standard                  | Method              | Requirement                              | Result |
| Frequency Stability            | 47 CFR Part 95, Subpart B | ANSI/TIA-603-E:2016 | 47 CFR FCC Part95.565 & FCC Part2.1055;  | Pass   |
| Effective Radiated Power (ERP) | 47 CFR Part 95, Subpart B | ANSI/TIA-603-E:2016 | 47 CFR FCC Part95.567 & FCC Part2.1046;  | Pass   |
| Occupied Bandwidth             | 47 CFR Part 95, Subpart B | ANSI/TIA-603-E:2016 | 47 CFR FCC Part 95.573 & FCC Part2.1049; | Pass   |
| Modulation characteristics     | 47 CFR Part 95, Subpart B | ANSI/TIA-603-E:2016 | 47 CFR FCC Part 95.575 & FCC Part2.1047; | Pass   |
| Radiated Spurious Emissions    | 47 CFR Part 95, Subpart B | ANSI/TIA-603-E:2016 | 47 CFR FCC Part 95.579 & FCC Part2.1053; | Pass   |

### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

### Declaration of EUT Family Grouping:

Item No.: 548016, 1619015, 726913

Only the item 726913 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above items, with only difference on item No..



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## 4 General Information

### 4.1 Details of E.U.T.

|                     |  |
|---------------------|--|
| Power supply:       | 4.5V DC(1.5V x 3 "AAA" Size Batteries) |
| Frequency Range:    | 462.5625MHz; 462.6125MHz ; 462.6625MHz |
| Modulation Type:    | FM                                     |
| Channel Separation: | 500KHz                                 |
| Number of Channels: | 3                                      |
| Emission Type:      | F3E                                    |
| Antenna Type:       | Spiral Antenna                         |
| Antenna Gain:       | -9.7dBi                                |

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Channel List:

| Channel | Frequency (MHz) |
|---------|-----------------|
| 1       | 462.5625        |
| 2       | 462.6125        |
| 3       | 462.6625        |

### 4.2 Description of Support Units

| Description                                     | Manufacturer | Model No. | Serial No. |
|---|--------------|-----------|------------|
| ---   | ---          | ---       | ---        |
| Note: The EUT has been tested independent unit. |              |           |            |



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### 4.3 Measurement Uncertainty

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | $7.25 \times 10^{-8}$   |
| 2   | Duty cycle                      | 0.37%                   |
| 3   | Occupied Bandwidth              | 3%                      |
| 4   | RF conducted power              | 0.75dB                  |
| 5   | RF power density                | 2.84dB                  |
| 6   | Conducted Spurious emissions    | 0.75dB                  |
| 7   | RF Radiated power               | 3.1dB (below 1GHz)      |
|     |                                 | 4.4dB (above 1GHz)      |
| 8   | Radiated Spurious emission test | 3.1dB (below 1GHz)      |
|     |                                 | 4.4dB (above 1GHz)      |
| 9   | Temperature test                | 1 °C                    |
| 10  | Humidity test                   | 3%                      |
| 11  | Supply voltages                 | 1.5%                    |
| 12  | Time                            | 3%                      |



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### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

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

• **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



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### 5 Equipment List

| Frequency Stability                         |                              |               |              |           |              |
|---|------------------------------|---------------|--------------|-----------|--------------|
| Equipment                                   | Manufacturer                 | Model No      | Inventory No | Cal Date  | Cal Due Date |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002       | SEM002-15    | 2022/7/12 | 2023/7/11    |
| MXA Signal Analyzer                         | Agilent                      | N9020A        | SEM004-20    | 2022/7/12 | 2023/7/11    |
| Signal Generator                            | Agilent                      | N5173B        | SEM006-05    | 2022/7/12 | 2023/7/11    |
| ESG Vector Signal Generator                 | Agilent                      | E4438C        | SEM006-15    | 2022/7/12 | 2023/7/11    |
| Power Sensor                                | Erika Fiedler                | U2021XA       | SEM009-15    | 2022/7/12 | 2023/7/11    |
| Power Sensor                                | Erika Fiedler                | U2021XA       | SEM009-16    | 2022/7/12 | 2023/7/11    |
| Wideband Radio Communication Tester         | Rohde & Schwarz              | CMW 500       | SEM010-08    | 2022/7/12 | 2023/7/11    |
| Programmable DC Source                      | Chroma                       | 62024P-80-60  | SEM011-09    | 2022/7/12 | 2023/7/11    |
| Attenuator                                  | Huber+Suhner                 | 6620_SMA-50-1 | SEM021-09    | 2022/7/12 | 2023/7/11    |
| Measurement software                        | TST PASS                     | TST PASS V2.0 | N/A          | N/A       | N/A          |

| Effective Radiated Power (ERP)           |              |                 |               |            |              |
|--|--------------|-----------------|---------------|------------|--------------|
| Equipment                                | Manufacturer | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| ESG Vector Signal Generator(250kHz-6GHz) | Agilent      | E4438C          | SEM006-15     | 2022/7/12  | 2023/7/11    |
| 3m Anechoic Chamber                      | CRT          | N/A             | SEM001-13     | 2021/7/13  | 2024/7/12    |
| Trilog-Broadband Antenna                 | Schwarzbeck  | VULB9168        | SEM003-33     | 2021/9/25  | 2024/9/24    |
| Biconical Antenna                        | Schwarzbeck  | VUBA9117        | SEM003-35     | 2021/12/26 | 2024/12/25   |
| MXE EMI receiver                         | Agilent      | N9038A          | SEM004-05     | 2022/7/12  | 2023/7/11    |
| Pre-amplifier                            | HP           | 8447D           | SEM005-02     | 2022/7/12  | 2023/7/11    |
| Measurement software                     | AUDIX        | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |



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| Occupied Bandwidth                          |                              |               |               |           |              |
|---|------------------------------|---------------|---------------|-----------|--------------|
| Equipment                                   | Manufacturer                 | Model No.     | Inventory No. | Cal Date  | Cal Due Date |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002       | SEM002-15     | 2022/7/12 | 2023/7/11    |
| MXA Signal Analyzer                         | Agilent                      | N9020A        | SEM004-20     | 2022/7/12 | 2023/7/11    |
| Signal Generator                            | Agilent                      | N5173B        | SEM006-05     | 2022/7/12 | 2023/7/11    |
| ESG Vector Signal Generator                 | Agilent                      | E4438C        | SEM006-15     | 2022/7/12 | 2023/7/11    |
| Power Sensor                                | Erika Fiedler                | U2021XA       | SEM009-15     | 2022/7/12 | 2023/7/11    |
| Power Sensor                                | Erika Fiedler                | U2021XA       | SEM009-16     | 2022/7/12 | 2023/7/11    |
| Wideband Radio Communication Tester         | Rohde & Schwarz              | CMW 500       | SEM010-08     | 2022/7/12 | 2023/7/11    |
| Programmable DC Source                      | Chroma                       | 62024P-80-60  | SEM011-09     | 2022/7/12 | 2023/7/11    |
| Attenuator                                  | Huber+Suhner                 | 6620_SMA-50-1 | SEM021-09     | 2022/7/12 | 2023/7/11    |
| Measurement software                        | TST PASS                     | TST PASS V2.0 | N/A           | N/A       | N/A          |

| Radiated Spurious Emissions Below 1GHz |              |                 |               |            |              |
|--|--------------|-----------------|---------------|------------|--------------|
| Equipment                              | Manufacturer | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| 3m Anechoic Chamber                    | CRT          | N/A             | SEM001-13     | 2021/7/13  | 2024/7/12    |
| Trilog-Broadband Antenna               | Schwarzbeck  | VULB9168        | SEM003-33     | 2021/9/25  | 2024/9/24    |
| Biconical Antenna                      | Schwarzbeck  | VUBA9117        | SEM003-35     | 2021/12/26 | 2024/12/25   |
| Loop Antenna                           | ETS-LINDGREN | 6502            | SEM003-36     | 2021/9/26  | 2024/9/25    |
| MXE EMI receiver                       | Agilent      | N9038A          | SEM004-05     | 2022/7/12  | 2023/7/11    |
| Pre-amplifier                          | HP           | 8447D           | SEM005-02     | 2022/7/12  | 2023/7/11    |
| Measurement software                   | AUDIX        | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |



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| Radiated Spurious Emissions Above 1GHz |                                    |                   |               |           |              |
|--|------------------------------------|-------------------|---------------|-----------|--------------|
| Equipment                              | Manufacturer                       | Model No.         | Inventory No. | Cal Date  | Cal Due Date |
| 3m Anechoic Chamber                    | CRT                                | N/A               | SEM001-13     | 2021/7/13 | 2024/7/12    |
| MXE EMI receiver                       | Agilent                            | N9038A            | SEM004-05     | 2022/7/12 | 2023/7/11    |
| Pre-amplifier                          | HP                                 | 8447D             | SEM005-02     | 2022/7/12 | 2023/7/11    |
| Broad-Band Horn Antenna                | Schwarzbeck                        | BBHA 9170         | SEM003-15     | 2021/7/11 | 2024/7/10    |
| Broad-Band Horn Antenna                | Schwarzbeck                        | BBHA 9120D        | SEM003-32     | 2021/9/26 | 2024/9/25    |
| Double-ridged waveguide horn           | ETS-LINDGREN                       | 3117              | SEM003-34     | 2021/9/25 | 2024/9/24    |
| Spectrum Analyzer                      | Rohde & Schwarz                    | 101288            | SEM004-08     | 2022/7/12 | 2023/7/11    |
| Low Noise Amplifier                    | CLAVIO                             | BDLNA-0118-352810 | SEM005-05     | 2022/7/12 | 2023/7/11    |
| Pre-amplifier                          | Compliance Directions Systems Inc. | PAP-2640-50       | SEM005-08     | 2022/7/12 | 2023/7/11    |
| Pre-amplifier                          | Rohde & Schwarz                    | CH14-H052         | SEM005-17     | 2022/7/12 | 2023/7/11    |
| Pre-amplifier                          | TST PASS                           | LNA04080G30       | SEM005-27     | 2022/4/15 | 2023/4/14    |
| Pre-amplifier                          | TST PASS                           | LNA10180G45       | SEM005-28     | 2022/4/15 | 2023/4/14    |
| Measurement software                   | AUDIX                              | e3 V8.2014-6-27   | N/A           | N/A       | N/A          |

| General used equipment          |              |           |               |            |              |
|---------------------------------|--------------|-----------|---------------|------------|--------------|
| Equipment                       | Manufacturer | Model No. | Inventory No. | Cal Date   | Cal Due Date |
| Humidity/ Temperature Indicator | Mingle       | TH607     | SEM002-22     | 2022-07-12 | 2023-07-11   |
| Humidity/ Temperature Indicator | Mingle       | TH607     | SEM002-23     | 2022-07-12 | 2023-07-11   |
| Barometer                       | DUMAI        | DYM3      | SEM002-24     | 2022-07-12 | 2023-07-11   |



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 95, Subpart B 95.587(b)

#### 6.1.2 Conclusion

95.587(b) Requirement:

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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The antenna gain is -9.7dBi and with vertically polarized.

Antenna location: Refer to internal photo.



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## 7 Radio Spectrum Matter Test Results

### 7.1 Frequency Stability

Test Requirement 47 CFR FCC Part 95.565

Test Method: ANSI/TIA-603-E:2016

Limit: For FCC Part 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.

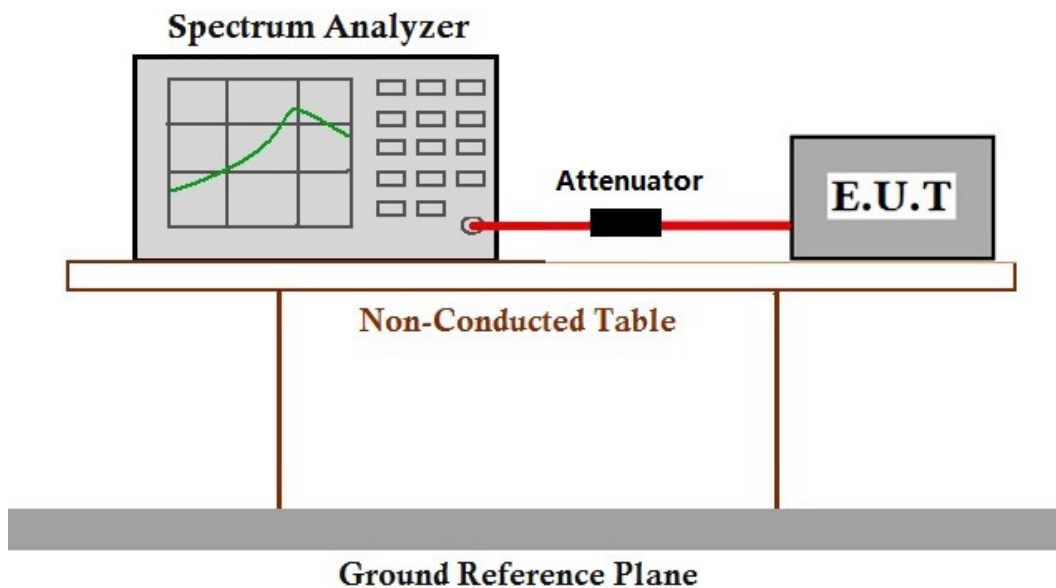
#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 50.6 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

#### 7.1.2 Test Setup Diagram



#### 7.1.3 Measurement Procedure and Data



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| Assigned Frequency: 462.5625MHz |                  |                         |                          |                 |        |
|---------------------------------|------------------|-------------------------|--------------------------|-----------------|--------|
| Voltage(V)                      | Temperature (°C) | Measured Frequency(MHz) | Frequency Deviation(ppm) | FCC Limit (ppm) | Result |
| 4.5                             | -30              | 462.5628                | 0.65                     | ±2.5            | Pass   |
|                                 | -20              | 462.5629                | 0.86                     |                 |        |
|                                 | -10              | 462.5626                | 0.22                     |                 |        |
|                                 | 0                | 462.5625                | 0.00                     |                 |        |
|                                 | 10               | 462.5628                | 0.65                     |                 |        |
|                                 | 20               | 462.5626                | 0.22                     |                 |        |
|                                 | 30               | 462.5629                | 0.86                     |                 |        |
|                                 | 40               | 462.5627                | 0.43                     |                 |        |
|                                 | 50               | 462.5628                | 0.65                     |                 |        |
| 4.95                            | 25               | 462.5629                | 0.86                     | ±2.5            | Pass   |
| 4.05                            | 25               | 462.5625                | 0.00                     |                 |        |

| Assigned Frequency: 462.6125MHz |                  |                         |                          |                 |        |
|---------------------------------|------------------|-------------------------|--------------------------|-----------------|--------|
| Voltage(V)                      | Temperature (°C) | Measured Frequency(MHz) | Frequency Deviation(ppm) | FCC Limit (ppm) | Result |
| 4.5                             | -30              | 462.6128                | 0.65                     | ±2.5            | Pass   |
|                                 | -20              | 462.6130                | 1.08                     |                 |        |
|                                 | -10              | 462.6127                | 0.43                     |                 |        |
|                                 | 0                | 462.6129                | 0.86                     |                 |        |
|                                 | 10               | 462.6130                | 1.08                     |                 |        |
|                                 | 20               | 462.6126                | 0.22                     |                 |        |
|                                 | 30               | 462.6129                | 0.86                     |                 |        |
|                                 | 40               | 462.6130                | 1.08                     |                 |        |
|                                 | 50               | 462.6126                | 0.22                     |                 |        |
| 4.95                            | 25               | 462.6128                | 0.65                     | ±2.5            | Pass   |
| 4.05                            | 25               | 462.6126                | 0.22                     |                 |        |



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| Assigned Frequency: 462.6625MHz |                  |                         |                          |                 |        |
|---------------------------------|------------------|-------------------------|--------------------------|-----------------|--------|
| Voltage(V)                      | Temperature (°C) | Measured Frequency(MHz) | Frequency Deviation(ppm) | FCC Limit (ppm) | Result |
| 4.5                             | -30              | 462.6628                | 0.65                     | ±2.5            | Pass   |
|                                 | -20              | 462.6629                | 0.86                     |                 |        |
|                                 | -10              | 462.6629                | 0.86                     |                 |        |
|                                 | 0                | 462.6629                | 0.86                     |                 |        |
|                                 | 10               | 462.6627                | 0.43                     |                 |        |
|                                 | 20               | 462.6628                | 0.65                     |                 |        |
|                                 | 30               | 462.6627                | 0.43                     |                 |        |
|                                 | 40               | 462.6629                | 0.86                     |                 |        |
|                                 | 50               | 462.6627                | 0.43                     |                 |        |
| 4.95                            | 25               | 462.6628                | 0.65                     | ±2.5            | Pass   |
| 4.05                            | 25               | 462.6630                | 1.08                     |                 |        |



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### 7.2 Effective Radiated Power (ERP)

Test Requirement 47 CFR FCC Part95.567 & FCC Part2.1046;  
 Test Method: ANSI/TIA-603-E:2016  
 Measurement Distance: 3m  
 Test instrumentation resolution bandwidth 100 kHz (30 MHz – 1000 MHz)

Limit:

For FCC Part 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.

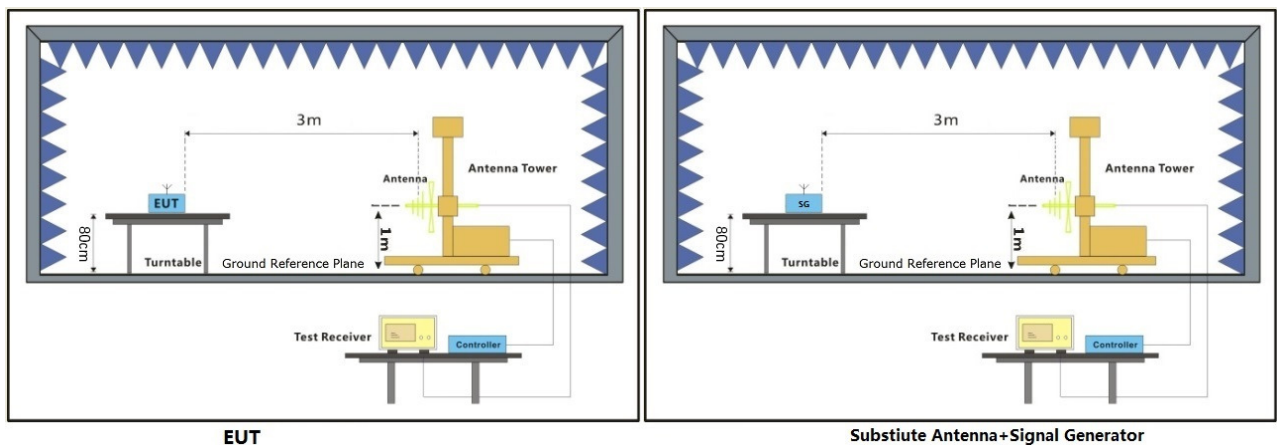
#### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 51.5 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

#### 7.2.2 Test Setup Diagram



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### 7.2.3 Measurement Procedure and Data

The technique used to find the output power of the transmitter was the antenna substitution method. The following test procedure was followed:

- 1). The EUT was powered ON and placed on a 0.8m high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by lowering 1m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 5). A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
- 6). The output power into the substitution antenna was then measured.
- 7). Steps 5) and 6) were repeated with both antennas polarized.
- 8). Calculate power in dBm by the following formula:

$$ERP [dBm] = SGP [dBm] - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

Where:

Pg is the generator output power into the substitution antenna.



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### Test result:

#### Effective Radiated Power of Transmitter (ERP)

| Polarization | Freq. (MHz) | SGP (dBm) | Substitution Gain(dBd) | Cable Loss (dB) | Substitution Level(ERP) / dBm | Substitution Level(ERP) / W | FCC Limit (W) | Result |
|--------------|-------------|-----------|------------------------|-----------------|-------------------------------|-----------------------------|---------------|--------|
| H            | 462.5625    | 23.25     | -5.1                   | 0.8             | 17.35                         | 0.054                       | 2.0           | Pass   |
| V            |             | 23.97     | -5.1                   | 0.8             | 18.07                         | 0.064                       | 2.0           | Pass   |
| H            | 462.6125    | 23.54     | -5.1                   | 0.8             | 17.64                         | 0.058                       | 2.0           | Pass   |
| V            |             | 24.23     | -5.1                   | 0.8             | 18.33                         | 0.068                       | 2.0           | Pass   |
| H            | 462.6625    | 23.18     | -5.1                   | 0.8             | 17.28                         | 0.053                       | 2.0           | Pass   |
| V            |             | 23.66     | -5.1                   | 0.8             | 17.76                         | 0.060                       | 2.0           | Pass   |

#### Note:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it:

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW, Detector: RMS



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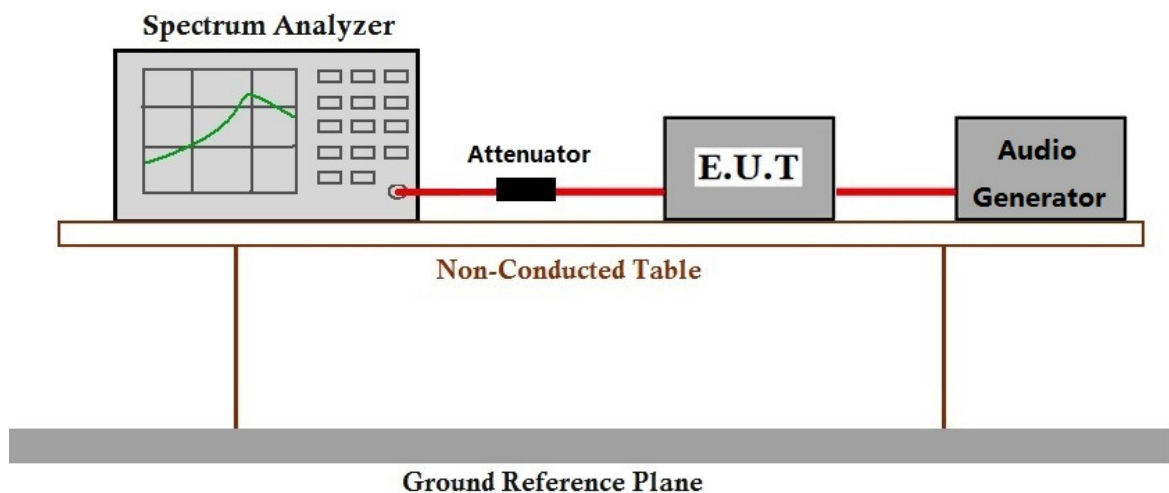
### 7.3 Occupied Bandwidth

Test Requirement 47 CFR FCC Part 95.573 & FCC Part2.1049;  
 Test Method: ANSI/TIA-603-E:2016  
 Limit: For FCC Part 95.573:  
 Each FRS transmitter type must be designed such that the occupied bandwidth does not exceed 12.5 kHz.

#### 7.3.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.5 °C Humidity: 50.6 % RH Atmospheric Pressure: 1010 mbar  
 Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

#### 7.3.2 Test Setup Diagram



#### 7.3.3 Measurement Procedure and Data



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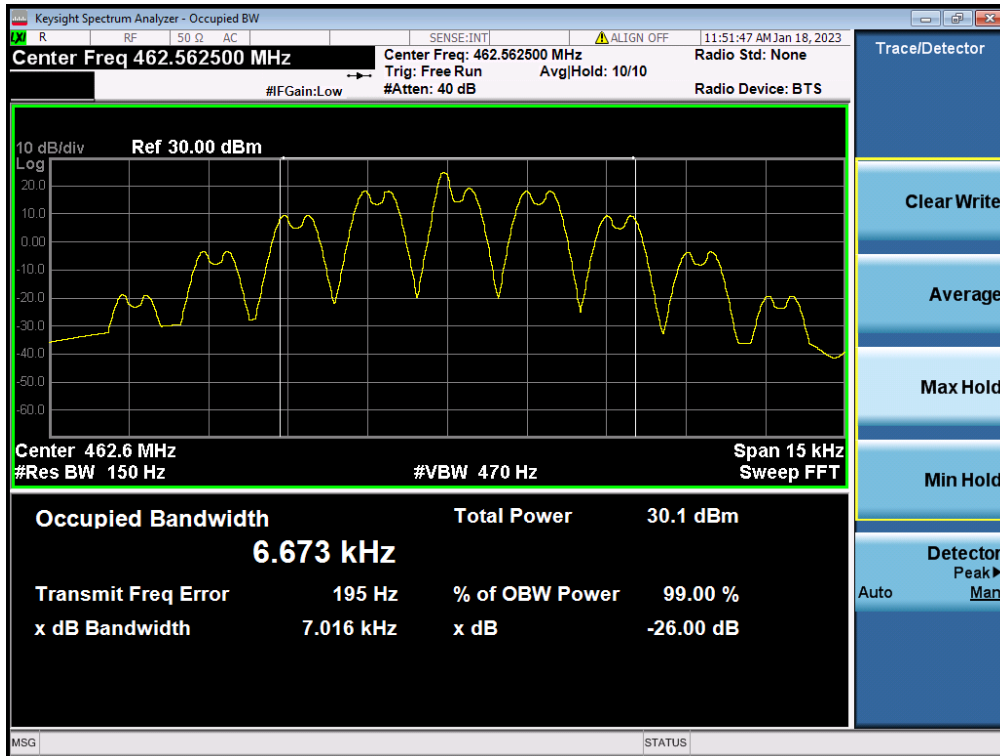
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### Test result: For Channel 1



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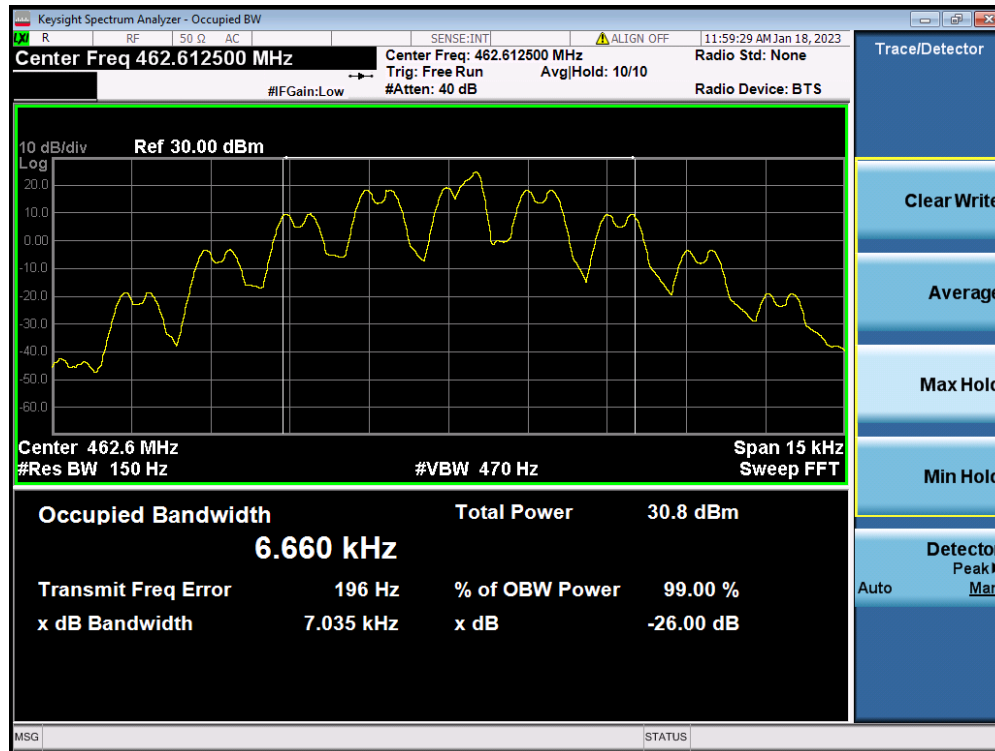
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### For channel 2



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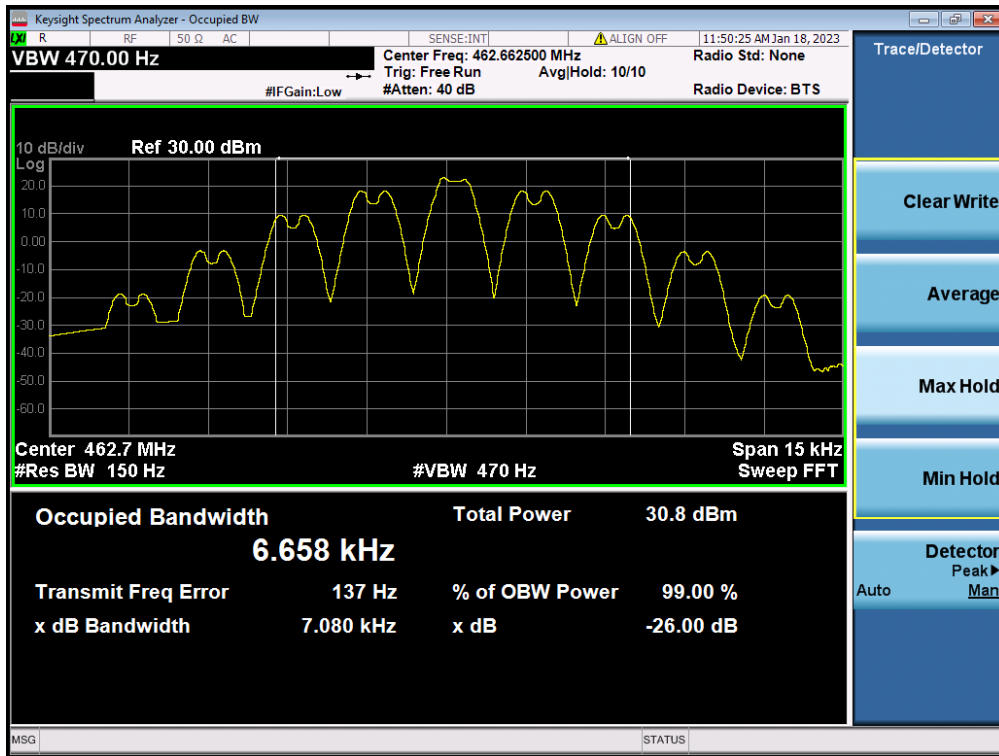
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### For channel 3



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### 7.4 Modulation characteristics

Test Requirement 47 CFR FCC Part 95.575 & FCC Part2.1047;  
Test Method: ANSI/TIA-603-E:2016  
Limit: For FCC Part 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.

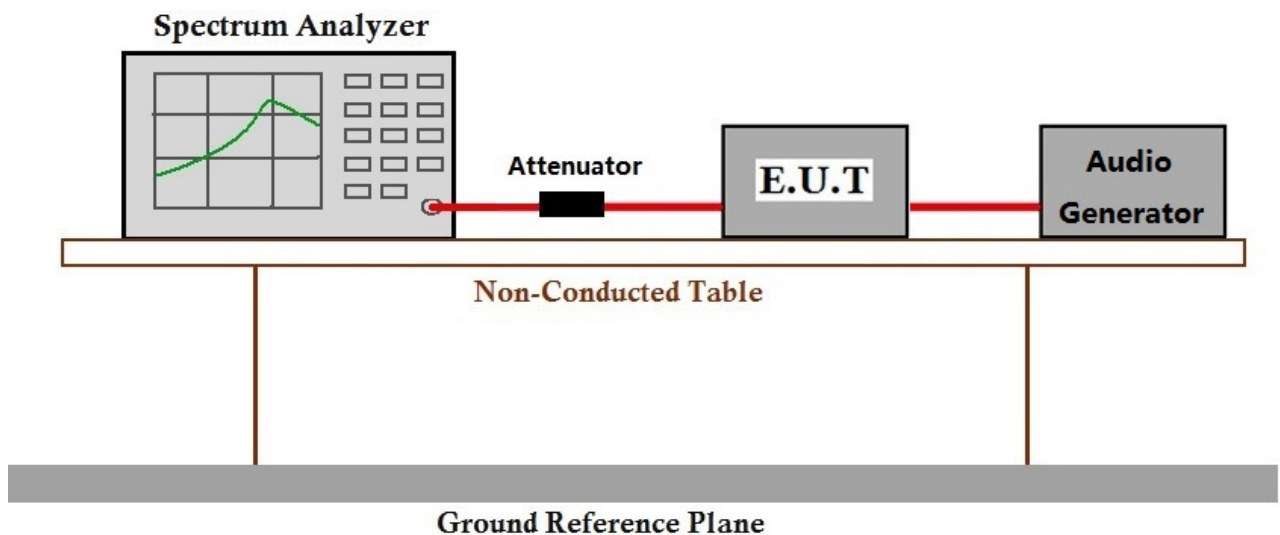
#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 50.6 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

#### 7.4.2 Test Setup Diagram



#### 7.4.3 Measurement Procedure and Data



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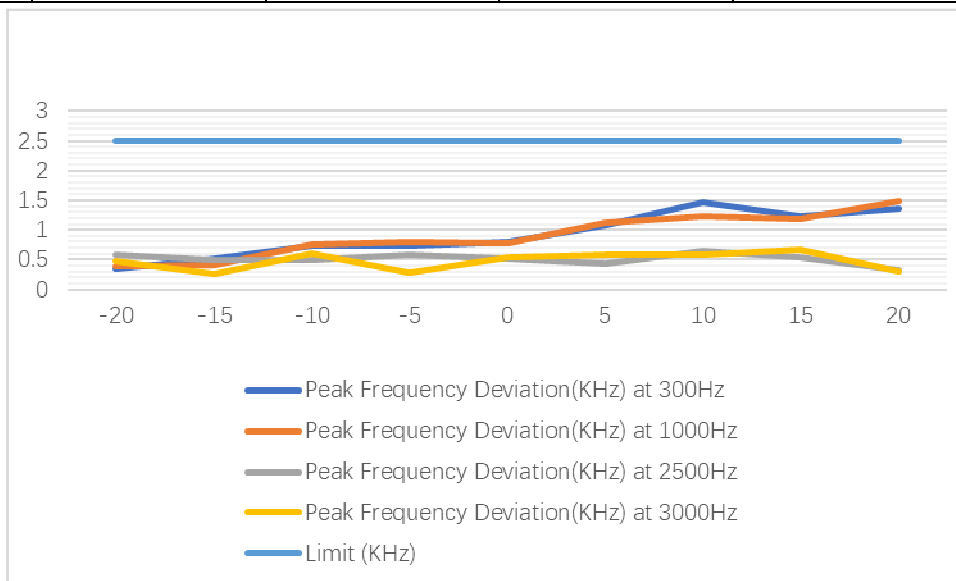
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### Test result:

#### a. Frequency deviation:

| Channel 1: 462.5625MHz FRS |  |   |   |   |             |
|----------------------------|--|---|---|---|-------------|
| Modulation Input(dB)       | Peak Frequency Deviation(KHz) at 300Hz | Peak Frequency Deviation(KHz) at 1000Hz | Peak Frequency Deviation(KHz) at 2500Hz | Peak Frequency Deviation(KHz) at 3000Hz | Limit (KHz) |
| -20                        | 0.35                                   | 0.38                                    | 0.59                                    | 0.48                                    | 2.50        |
| -15                        | 0.51                                   | 0.42                                    | 0.50                                    | 0.25                                    | 2.50        |
| -10                        | 0.74                                   | 0.76                                    | 0.50                                    | 0.60                                    | 2.50        |
| -5                         | 0.74                                   | 0.80                                    | 0.59                                    | 0.28                                    | 2.50        |
| 0                          | 0.79                                   | 0.78                                    | 0.52                                    | 0.55                                    | 2.50        |
| 5                          | 1.08                                   | 1.12                                    | 0.43                                    | 0.59                                    | 2.50        |
| 10                         | 1.46                                   | 1.22                                    | 0.64                                    | 0.59                                    | 2.50        |
| 15                         | 1.23                                   | 1.18                                    | 0.55                                    | 0.66                                    | 2.50        |
| 20                         | 1.35                                   | 1.49                                    | 0.33                                    | 0.30                                    | 2.50        |



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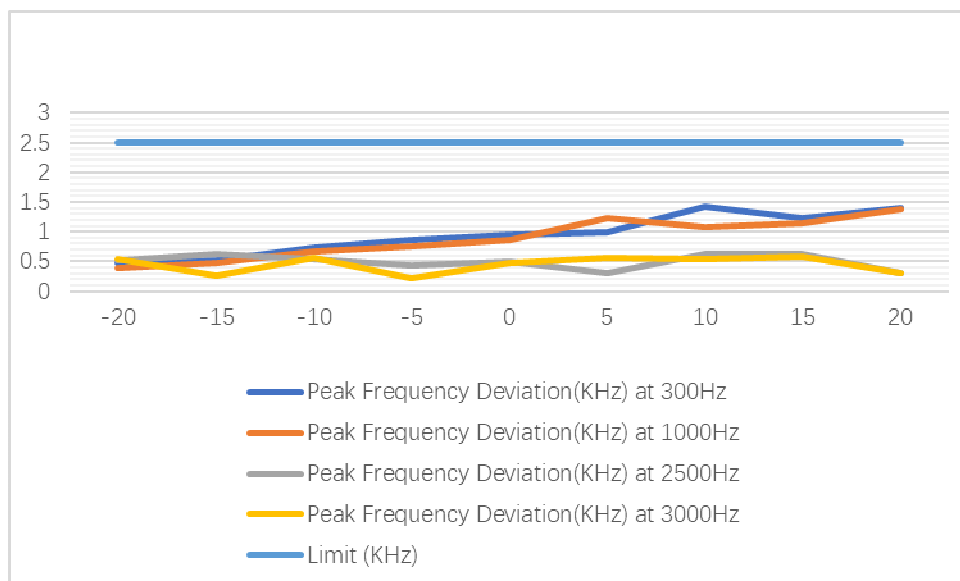
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| Channel 2: 462.6125MHz FRS |  |   |   |   |             |
|----------------------------|--|---|---|---|-------------|
| Modulation Input(dB)       | Peak Frequency Deviation(KHz) at 300Hz | Peak Frequency Deviation(KHz) at 1000Hz | Peak Frequency Deviation(KHz) at 2500Hz | Peak Frequency Deviation(KHz) at 3000Hz | Limit (KHz) |
| -20                        | 0.48                                   | 0.38                                    | 0.52                                    | 0.55                                    | 2.50        |
| -15                        | 0.51                                   | 0.47                                    | 0.62                                    | 0.27                                    | 2.50        |
| -10                        | 0.73                                   | 0.67                                    | 0.55                                    | 0.57                                    | 2.50        |
| -5                         | 0.87                                   | 0.75                                    | 0.43                                    | 0.21                                    | 2.50        |
| 0                          | 0.96                                   | 0.86                                    | 0.49                                    | 0.47                                    | 2.50        |
| 5                          | 1.00                                   | 1.23                                    | 0.31                                    | 0.57                                    | 2.50        |
| 10                         | 1.42                                   | 1.07                                    | 0.62                                    | 0.53                                    | 2.50        |
| 15                         | 1.22                                   | 1.14                                    | 0.62                                    | 0.59                                    | 2.50        |
| 20                         | 1.40                                   | 1.38                                    | 0.31                                    | 0.30                                    | 2.50        |



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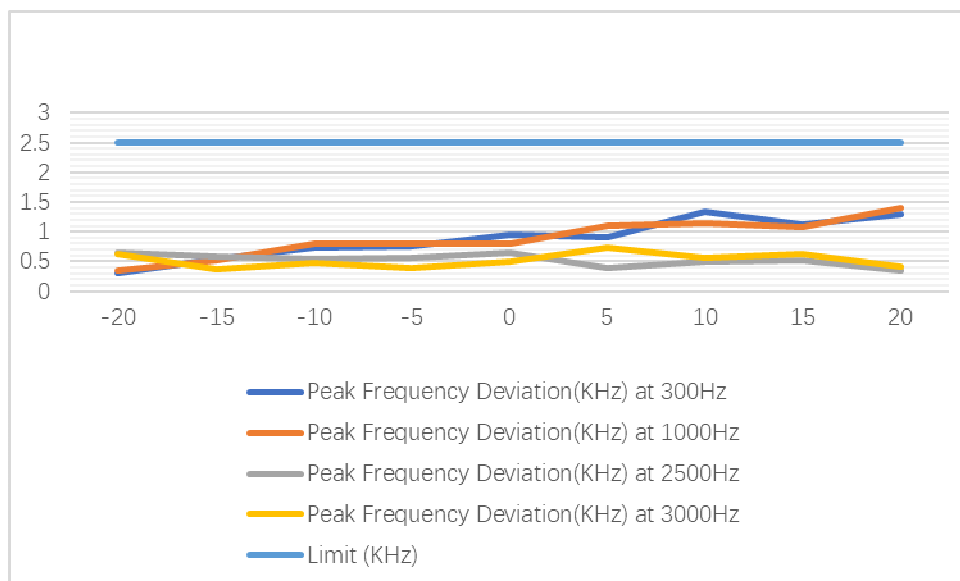
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| Channel 3: 462.6625MHz FRS |  |   |   |   |             |
|----------------------------|--|---|---|---|-------------|
| Modulation Input(dB)       | Peak Frequency Deviation(KHz) at 300Hz | Peak Frequency Deviation(KHz) at 1000Hz | Peak Frequency Deviation(KHz) at 2500Hz | Peak Frequency Deviation(KHz) at 3000Hz | Limit (KHz) |
| -20                        | 0.31                                   | 0.34                                    | 0.64                                    | 0.62                                    | 2.50        |
| -15                        | 0.54                                   | 0.52                                    | 0.59                                    | 0.36                                    | 2.50        |
| -10                        | 0.73                                   | 0.79                                    | 0.54                                    | 0.47                                    | 2.50        |
| -5                         | 0.75                                   | 0.79                                    | 0.56                                    | 0.38                                    | 2.50        |
| 0                          | 0.95                                   | 0.80                                    | 0.64                                    | 0.49                                    | 2.50        |
| 5                          | 0.90                                   | 1.10                                    | 0.39                                    | 0.73                                    | 2.50        |
| 10                         | 1.34                                   | 1.15                                    | 0.50                                    | 0.56                                    | 2.50        |
| 15                         | 1.13                                   | 1.09                                    | 0.51                                    | 0.63                                    | 2.50        |
| 20                         | 1.29                                   | 1.40                                    | 0.35                                    | 0.41                                    | 2.50        |



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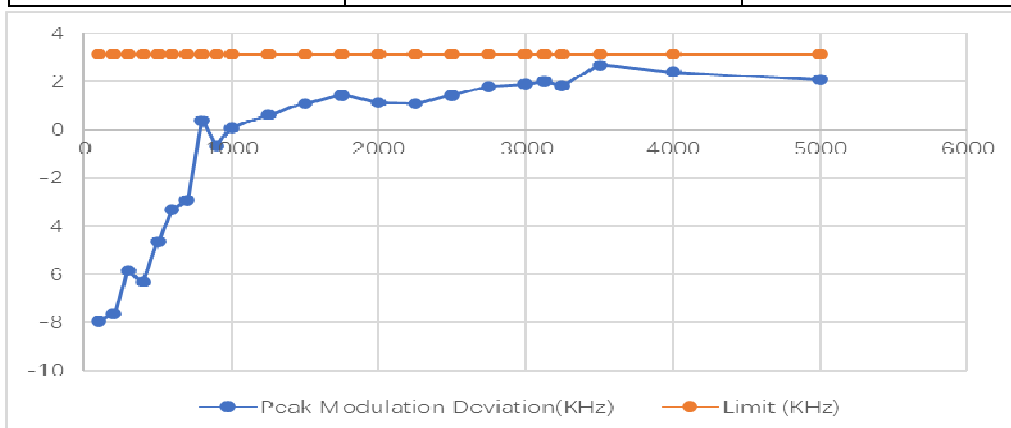
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### b. Audio Frequency Response

#### Channel 1 for FRS

| Modulation Frequency(Hz) | Peak Modulation Deviation(KHz) | Limit (KHz) |
|--------------------------|--------------------------------|-------------|
| 100                      | -7.94                          | 3.125       |
| 200                      | -7.64                          | 3.125       |
| 300                      | -5.85                          | 3.125       |
| 400                      | -6.33                          | 3.125       |
| 500                      | -4.66                          | 3.125       |
| 600                      | -3.30                          | 3.125       |
| 700                      | -2.94                          | 3.125       |
| 800                      | 0.39                           | 3.125       |
| 900                      | -0.69                          | 3.125       |
| 1000                     | 0.07                           | 3.125       |
| 1250                     | 0.61                           | 3.125       |
| 1500                     | 1.09                           | 3.125       |
| 1750                     | 1.43                           | 3.125       |
| 2000                     | 1.12                           | 3.125       |
| 2250                     | 1.08                           | 3.125       |
| 2500                     | 1.44                           | 3.125       |
| 2750                     | 1.78                           | 3.125       |
| 3000                     | 1.88                           | 3.125       |
| 3125                     | 2.00                           | 3.125       |
| 3250                     | 1.83                           | 3.125       |
| 3500                     | 2.68                           | 3.125       |
| 4000                     | 2.39                           | 3.125       |
| 5000                     | 2.08                           | 3.125       |



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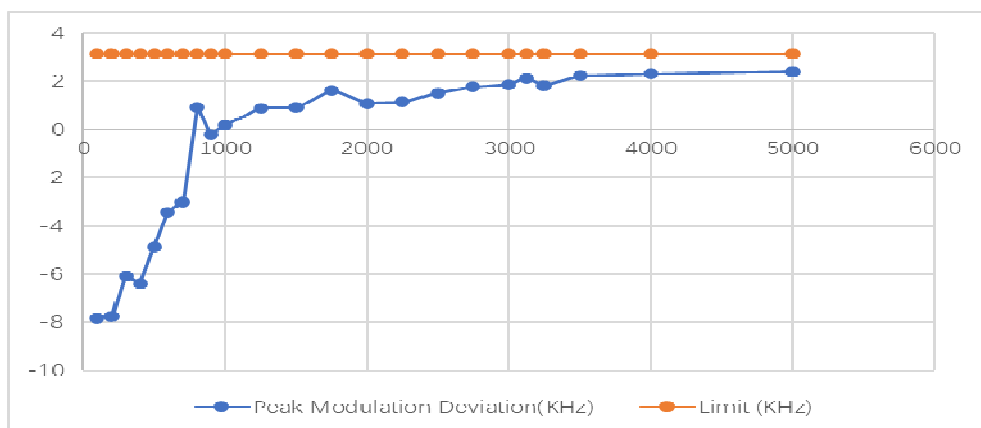
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Channel 2 for FRS

| Modulation Frequency(Hz) | Peak Modulation Deviation(KHz) | Limit (KHz) |
|--------------------------|--------------------------------|-------------|
| 100                      | -7.83                          | 3.125       |
| 200                      | -7.75                          | 3.125       |
| 300                      | -6.08                          | 3.125       |
| 400                      | -6.38                          | 3.125       |
| 500                      | -4.86                          | 3.125       |
| 600                      | -3.42                          | 3.125       |
| 700                      | -3.00                          | 3.125       |
| 800                      | 0.94                           | 3.125       |
| 900                      | -0.20                          | 3.125       |
| 1000                     | 0.17                           | 3.125       |
| 1250                     | 0.90                           | 3.125       |
| 1500                     | 0.91                           | 3.125       |
| 1750                     | 1.63                           | 3.125       |
| 2000                     | 1.08                           | 3.125       |
| 2250                     | 1.14                           | 3.125       |
| 2500                     | 1.52                           | 3.125       |
| 2750                     | 1.76                           | 3.125       |
| 3000                     | 1.86                           | 3.125       |
| 3125                     | 2.13                           | 3.125       |
| 3250                     | 1.82                           | 3.125       |
| 3500                     | 2.23                           | 3.125       |
| 4000                     | 2.31                           | 3.125       |
| 5000                     | 2.42                           | 3.125       |



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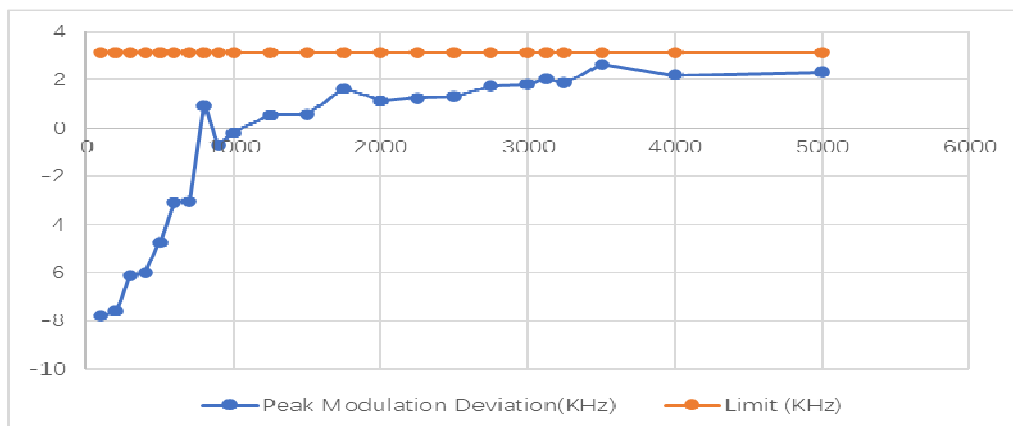
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Channel 3 for FRS

| Modulation Frequency(Hz) | Peak Modulation Deviation(KHz) | Limit (KHz) |
|--------------------------|--------------------------------|-------------|
| 100                      | -7.80                          | 3.125       |
| 200                      | -7.61                          | 3.125       |
| 300                      | -6.12                          | 3.125       |
| 400                      | -5.99                          | 3.125       |
| 500                      | -4.77                          | 3.125       |
| 600                      | -3.08                          | 3.125       |
| 700                      | -3.04                          | 3.125       |
| 800                      | 0.94                           | 3.125       |
| 900                      | -0.73                          | 3.125       |
| 1000                     | -0.20                          | 3.125       |
| 1250                     | 0.54                           | 3.125       |
| 1500                     | 0.57                           | 3.125       |
| 1750                     | 1.63                           | 3.125       |
| 2000                     | 1.12                           | 3.125       |
| 2250                     | 1.25                           | 3.125       |
| 2500                     | 1.30                           | 3.125       |
| 2750                     | 1.75                           | 3.125       |
| 3000                     | 1.81                           | 3.125       |
| 3125                     | 2.05                           | 3.125       |
| 3250                     | 1.88                           | 3.125       |
| 3500                     | 2.63                           | 3.125       |
| 4000                     | 2.19                           | 3.125       |
| 5000                     | 2.32                           | 3.125       |



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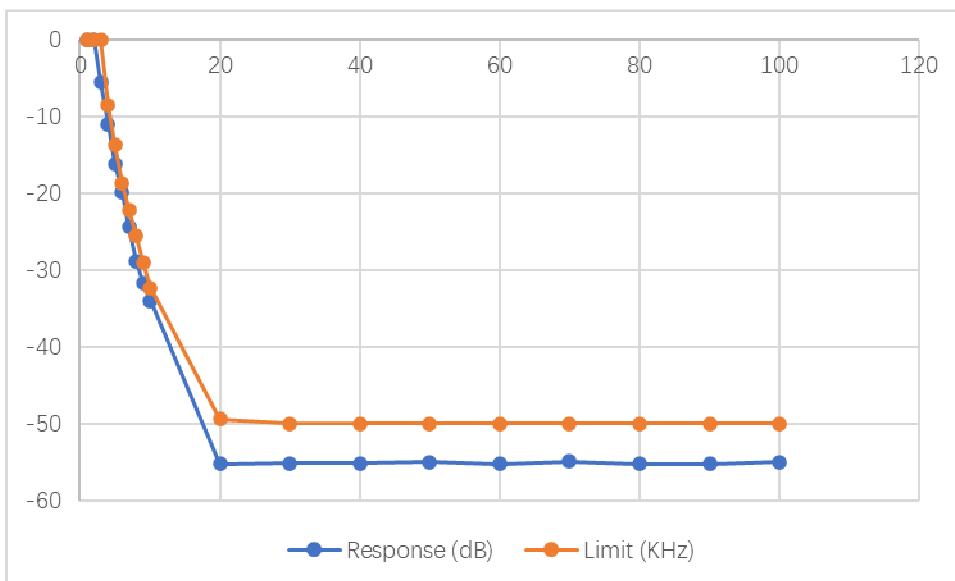
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### c. Audio Low Pass Filter Frequency Response

Channel 1 for FRS

| Frequency(KHz) | Response (dB) | Limit (KHz) |
|----------------|---------------|-------------|
| 1              | 0             | 0           |
| 2              | 0             | 0           |
| 3              | -5.59         | 0           |
| 4              | -10.96        | -8.52       |
| 5              | -16.15        | -13.64      |
| 6              | -19.93        | -18.75      |
| 7              | -24.41        | -22.16      |
| 8              | -28.93        | -25.57      |
| 9              | -31.65        | -28.98      |
| 10             | -33.96        | -32.29      |
| 20             | -55.22        | -49.43      |
| 30             | -55.17        | -50.00      |
| 40             | -55.19        | -50.00      |
| 50             | -54.97        | -50.00      |
| 60             | -55.21        | -50.00      |
| 70             | -54.95        | -50.00      |
| 80             | -55.22        | -50.00      |
| 90             | -55.26        | -50.00      |
| 100            | -54.97        | -50.00      |



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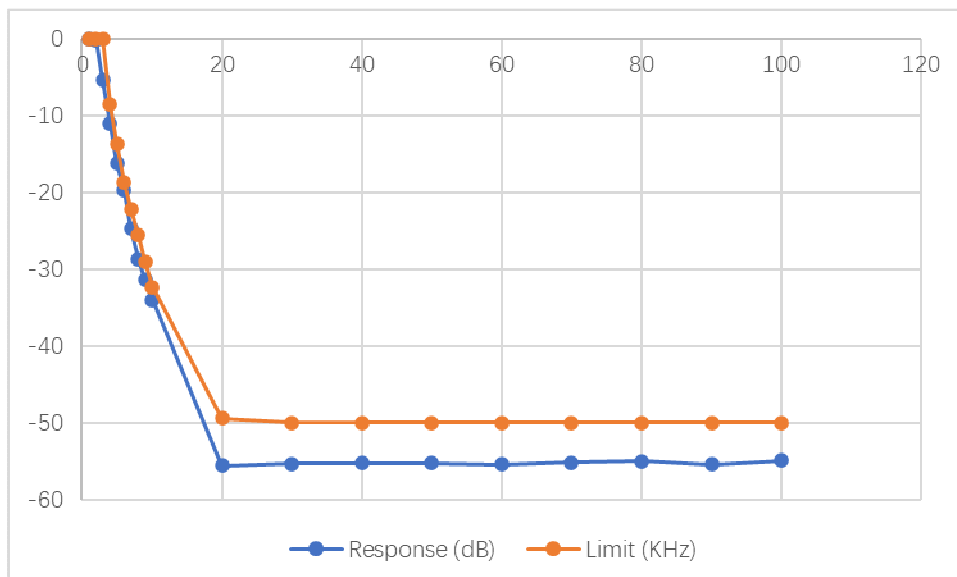
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Channel 2 for FRS

| Frequency(KHz) | Response (dB) | Limit (KHz) |
|----------------|---------------|-------------|
| 1              | 0.00          | 0           |
| 2              | -0.10         | 0           |
| 3              | -5.40         | 0           |
| 4              | -11.09        | -8.52       |
| 5              | -16.23        | -13.64      |
| 6              | -19.72        | -18.75      |
| 7              | -24.71        | -22.16      |
| 8              | -28.67        | -25.57      |
| 9              | -31.44        | -28.98      |
| 10             | -33.95        | -32.29      |
| 20             | -55.55        | -49.43      |
| 30             | -55.37        | -50.00      |
| 40             | -55.22        | -50.00      |
| 50             | -55.22        | -50.00      |
| 60             | -55.40        | -50.00      |
| 70             | -55.18        | -50.00      |
| 80             | -54.97        | -50.00      |
| 90             | -55.39        | -50.00      |
| 100            | -54.93        | -50.00      |



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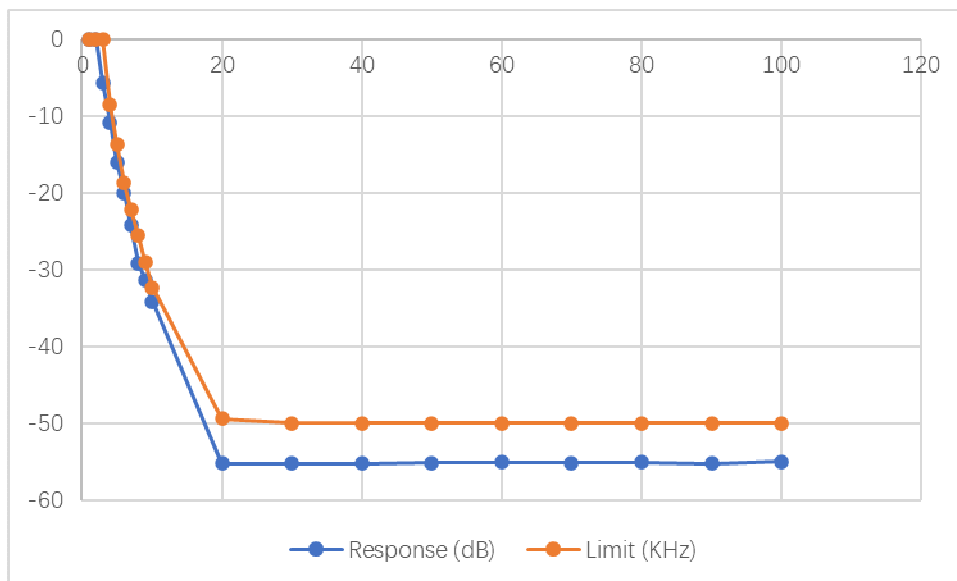
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### Channel 3 for FRS

| Frequency(KHz) | Response (dB) | Limit (KHz) |
|----------------|---------------|-------------|
| 1              | 0.00          | 0           |
| 2              | 0.00          | 0           |
| 3              | -5.64         | 0           |
| 4              | -10.78        | -8.52       |
| 5              | -16.02        | -13.64      |
| 6              | -20.00        | -18.75      |
| 7              | -24.21        | -22.16      |
| 8              | -29.12        | -25.57      |
| 9              | -31.36        | -28.98      |
| 10             | -34.17        | -32.29      |
| 20             | -55.23        | -49.43      |
| 30             | -55.23        | -50.00      |
| 40             | -55.22        | -50.00      |
| 50             | -55.20        | -50.00      |
| 60             | -55.07        | -50.00      |
| 70             | -55.17        | -50.00      |
| 80             | -55.10        | -50.00      |
| 90             | -55.27        | -50.00      |
| 100            | -55.03        | -50.00      |



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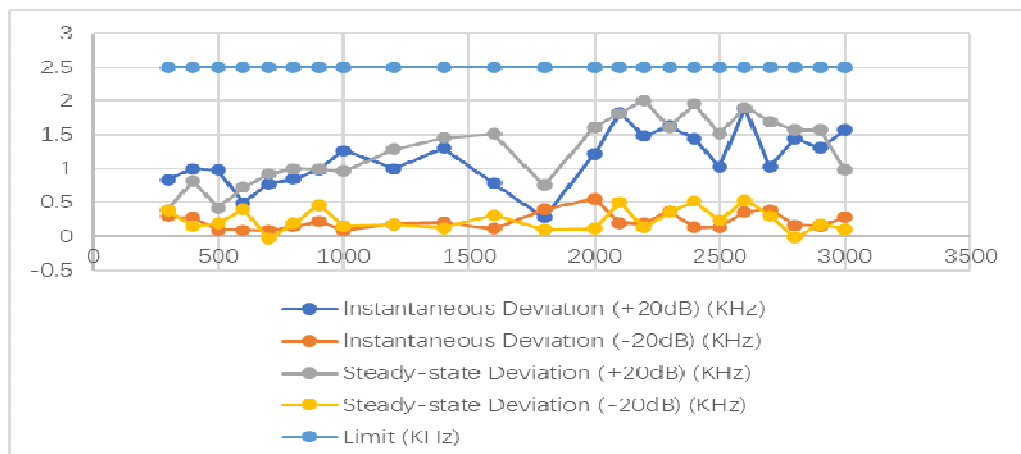
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### d. Modulation Limiting

#### Channel 1 for FRS

| Audio Frequency(Hz) | Instantaneous           |                         | Steady-state            |                         | Limit (KHz) |
|---------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------|
|                     | Deviation (+20dB) (KHz) | Deviation (-20dB) (KHz) | Deviation (+20dB) (KHz) | Deviation (-20dB) (KHz) |             |
| 300                 | 0.830                   | 0.292                   | 0.391                   | 0.388                   | 2.5         |
| 400                 | 0.995                   | 0.276                   | 0.817                   | 0.146                   | 2.5         |
| 500                 | 0.977                   | 0.090                   | 0.416                   | 0.188                   | 2.5         |
| 600                 | 0.494                   | 0.088                   | 0.721                   | 0.400                   | 2.5         |
| 700                 | 0.771                   | 0.085                   | 0.916                   | -0.037                  | 2.5         |
| 800                 | 0.838                   | 0.146                   | 0.996                   | 0.187                   | 2.5         |
| 900                 | 0.980                   | 0.218                   | 0.991                   | 0.460                   | 2.5         |
| 1000                | 1.268                   | 0.088                   | 0.961                   | 0.153                   | 2.5         |
| 1200                | 0.999                   | 0.178                   | 1.288                   | 0.170                   | 2.5         |
| 1400                | 1.305                   | 0.200                   | 1.450                   | 0.117                   | 2.5         |
| 1600                | 0.784                   | 0.110                   | 1.511                   | 0.313                   | 2.5         |
| 1800                | 0.273                   | 0.395                   | 0.750                   | 0.097                   | 2.5         |
| 2000                | 1.215                   | 0.549                   | 1.607                   | 0.113                   | 2.5         |
| 2100                | 1.821                   | 0.197                   | 1.817                   | 0.498                   | 2.5         |
| 2200                | 1.482                   | 0.188                   | 2.010                   | 0.130                   | 2.5         |
| 2300                | 1.631                   | 0.370                   | 1.605                   | 0.353                   | 2.5         |
| 2400                | 1.441                   | 0.127                   | 1.956                   | 0.514                   | 2.5         |
| 2500                | 1.022                   | 0.134                   | 1.507                   | 0.231                   | 2.5         |
| 2600                | 1.891                   | 0.357                   | 1.906                   | 0.534                   | 2.5         |
| 2700                | 1.028                   | 0.387                   | 1.695                   | 0.299                   | 2.5         |
| 2800                | 1.440                   | 0.164                   | 1.572                   | -0.020                  | 2.5         |
| 2900                | 1.301                   | 0.148                   | 1.568                   | 0.177                   | 2.5         |
| 3000                | 1.571                   | 0.276                   | 0.978                   | 0.108                   | 2.5         |



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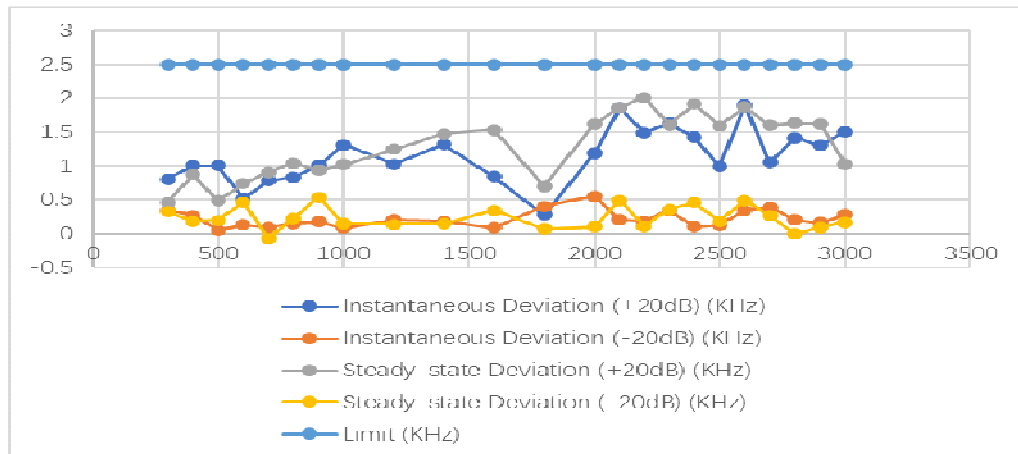
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Channel 2 for FRS

| Audio Frequency(Hz) | Instantaneous           |                         | Steady-state            |                         | Limit (KHz) |
|---------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------|
|                     | Deviation (+20dB) (KHz) | Deviation (-20dB) (KHz) | Deviation (+20dB) (KHz) | Deviation (-20dB) (KHz) |             |
| 300                 | 0.806                   | 0.342                   | 0.461                   | 0.321                   | 2.5         |
| 400                 | 1.003                   | 0.271                   | 0.874                   | 0.180                   | 2.5         |
| 500                 | 1.007                   | 0.050                   | 0.483                   | 0.198                   | 2.5         |
| 600                 | 0.517                   | 0.125                   | 0.739                   | 0.466                   | 2.5         |
| 700                 | 0.783                   | 0.088                   | 0.911                   | -0.071                  | 2.5         |
| 800                 | 0.835                   | 0.154                   | 1.040                   | 0.228                   | 2.5         |
| 900                 | 1.001                   | 0.170                   | 0.928                   | 0.539                   | 2.5         |
| 1000                | 1.309                   | 0.081                   | 1.019                   | 0.142                   | 2.5         |
| 1200                | 1.025                   | 0.201                   | 1.245                   | 0.134                   | 2.5         |
| 1400                | 1.317                   | 0.182                   | 1.476                   | 0.144                   | 2.5         |
| 1600                | 0.838                   | 0.082                   | 1.534                   | 0.343                   | 2.5         |
| 1800                | 0.276                   | 0.401                   | 0.698                   | 0.070                   | 2.5         |
| 2000                | 1.184                   | 0.551                   | 1.615                   | 0.096                   | 2.5         |
| 2100                | 1.854                   | 0.205                   | 1.861                   | 0.491                   | 2.5         |
| 2200                | 1.490                   | 0.183                   | 2.009                   | 0.109                   | 2.5         |
| 2300                | 1.631                   | 0.343                   | 1.603                   | 0.357                   | 2.5         |
| 2400                | 1.422                   | 0.096                   | 1.907                   | 0.457                   | 2.5         |
| 2500                | 0.991                   | 0.123                   | 1.591                   | 0.179                   | 2.5         |
| 2600                | 1.897                   | 0.344                   | 1.864                   | 0.495                   | 2.5         |
| 2700                | 1.051                   | 0.385                   | 1.600                   | 0.259                   | 2.5         |
| 2800                | 1.413                   | 0.199                   | 1.629                   | -0.006                  | 2.5         |
| 2900                | 1.301                   | 0.155                   | 1.620                   | 0.093                   | 2.5         |
| 3000                | 1.500                   | 0.278                   | 1.027                   | 0.168                   | 2.5         |



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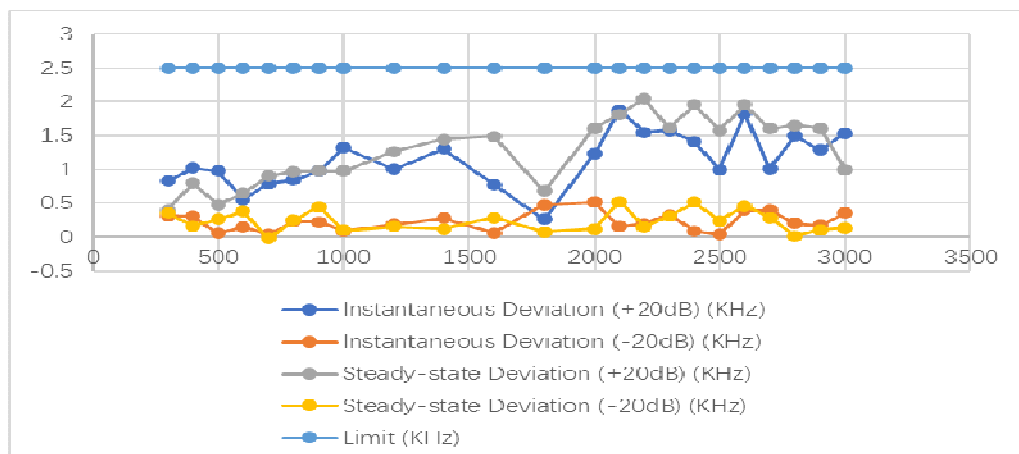
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Channel 3 for FRS

| Audio Frequency(Hz) | Instantaneous           |                         | Steady-state            |                         | Limit (KHz) |
|---------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------|
|                     | Deviation (+20dB) (KHz) | Deviation (-20dB) (KHz) | Deviation (+20dB) (KHz) | Deviation (-20dB) (KHz) |             |
| 300                 | 0.829                   | 0.317                   | 0.400                   | 0.348                   | 2.5         |
| 400                 | 1.022                   | 0.309                   | 0.799                   | 0.168                   | 2.5         |
| 500                 | 0.975                   | 0.054                   | 0.477                   | 0.265                   | 2.5         |
| 600                 | 0.548                   | 0.148                   | 0.645                   | 0.383                   | 2.5         |
| 700                 | 0.789                   | 0.036                   | 0.897                   | -0.021                  | 2.5         |
| 800                 | 0.840                   | 0.234                   | 0.965                   | 0.249                   | 2.5         |
| 900                 | 0.976                   | 0.224                   | 0.975                   | 0.449                   | 2.5         |
| 1000                | 1.318                   | 0.089                   | 0.972                   | 0.102                   | 2.5         |
| 1200                | 1.004                   | 0.189                   | 1.262                   | 0.157                   | 2.5         |
| 1400                | 1.303                   | 0.279                   | 1.441                   | 0.117                   | 2.5         |
| 1600                | 0.772                   | 0.058                   | 1.488                   | 0.286                   | 2.5         |
| 1800                | 0.263                   | 0.474                   | 0.677                   | 0.076                   | 2.5         |
| 2000                | 1.230                   | 0.516                   | 1.604                   | 0.117                   | 2.5         |
| 2100                | 1.875                   | 0.159                   | 1.817                   | 0.518                   | 2.5         |
| 2200                | 1.547                   | 0.194                   | 2.047                   | 0.151                   | 2.5         |
| 2300                | 1.576                   | 0.325                   | 1.610                   | 0.307                   | 2.5         |
| 2400                | 1.404                   | 0.093                   | 1.953                   | 0.517                   | 2.5         |
| 2500                | 0.998                   | 0.041                   | 1.574                   | 0.237                   | 2.5         |
| 2600                | 1.823                   | 0.397                   | 1.953                   | 0.461                   | 2.5         |
| 2700                | 1.013                   | 0.392                   | 1.599                   | 0.282                   | 2.5         |
| 2800                | 1.493                   | 0.205                   | 1.654                   | 0.020                   | 2.5         |
| 2900                | 1.289                   | 0.175                   | 1.604                   | 0.105                   | 2.5         |
| 3000                | 1.531                   | 0.348                   | 0.995                   | 0.139                   | 2.5         |



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### 7.5 Radiated Unwanted Emissions

Test Requirement 47 CFR FCC Part 95.579 & FCC Part2.1053;

Test Method: ANSI/TIA-603-E:2016

Measurement Distance: 3m

Resolution bandwidth =10 kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1GHz.

Video Bandwidth = 300 kHz for spurious emissions below 1 GHz, and 3 MHz for spurious emissions above 1 GHz.

Limit:

For FCC Part 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.

(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.

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.



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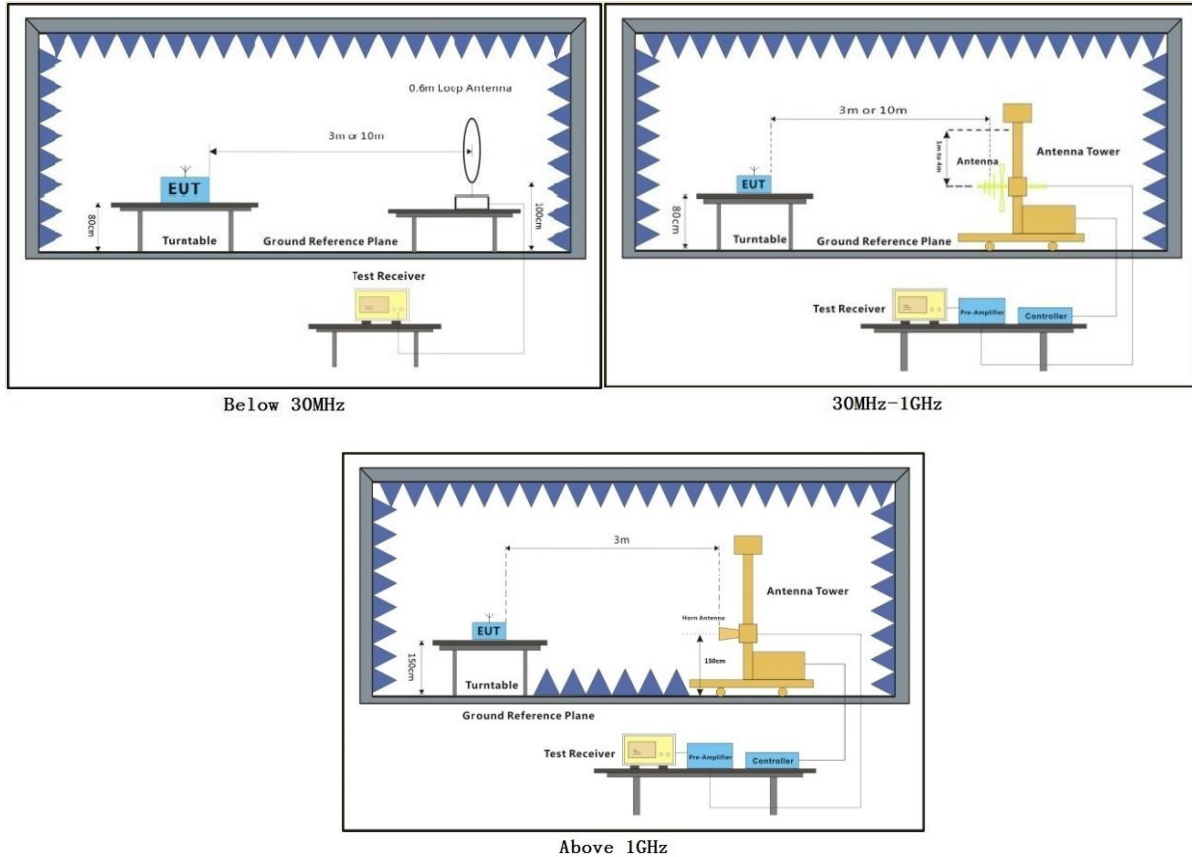
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### 7.5.2 Test Setup Diagram



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### 7.5.3 Measurement Procedure and Data

#### Test Procedure:

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



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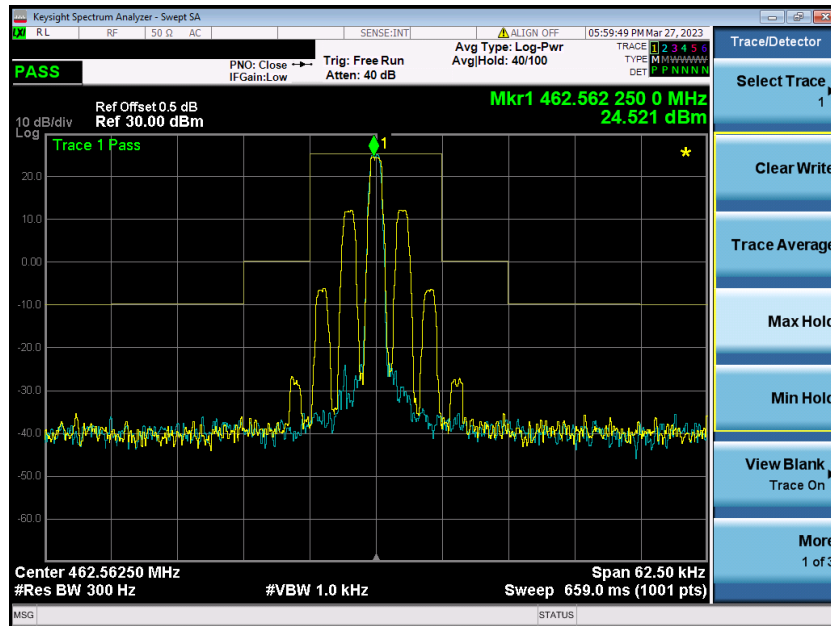
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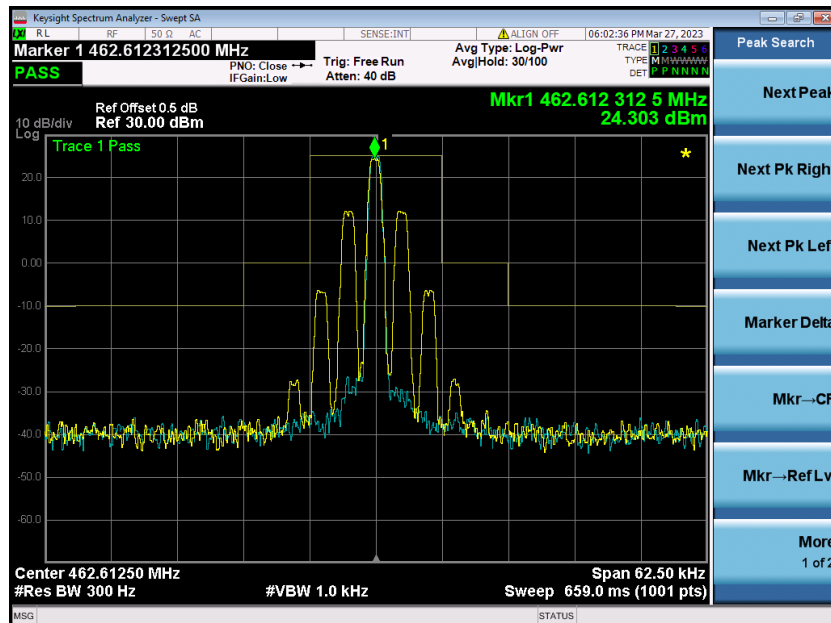
Radiated Unwanted Emissions

Emission Mask

Channel 1



Channel 2



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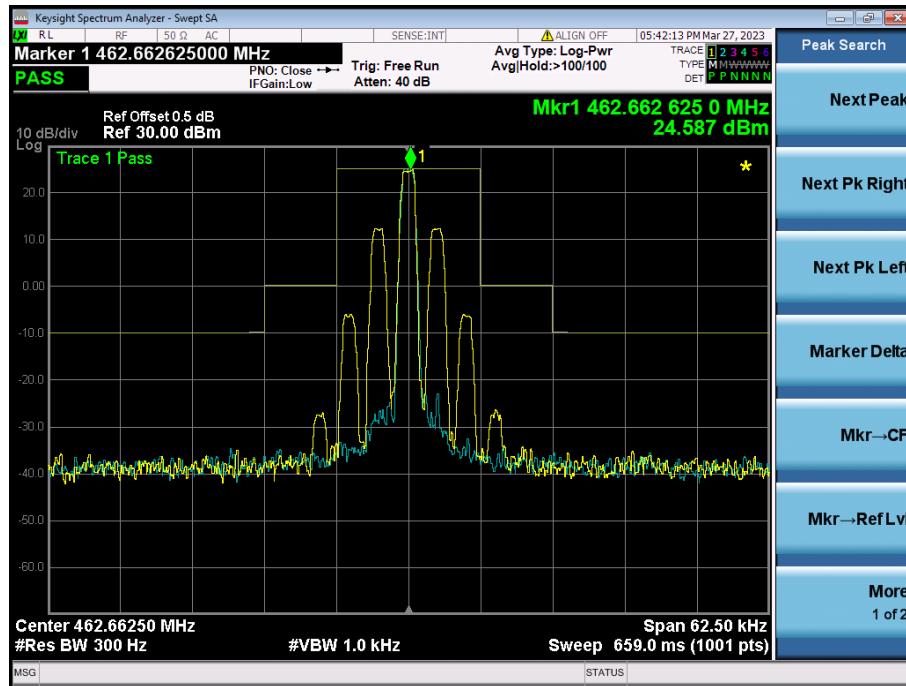
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### Channel 3



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Below 1G

Channel 1: 462.5625MHz

| Frequency<br>MHz | Polarity<br>H/V | Emission Level<br>dBm | Limit<br>dBm | Margin<br>dBm |
|------------------|-----------------|-----------------------|--------------|---------------|
| 124.293          | V               | -41.23                | -13          | -28.23        |
| 237.402          | V               | -32.35                | -13          | -19.35        |
| 239.482          | V               | -31.63                | -13          | -18.63        |
| 474.881          | V               | -42.81                | -13          | -29.81        |
| 633.653          | V               | -43.71                | -13          | -30.71        |
| 925.541          | V               | -23.54                | -13          | -10.54        |
| 32.271           | H               | -38.72                | -13          | -25.72        |
| 190.281          | H               | -45.37                | -13          | -32.37        |
| 314.272          | H               | -42.84                | -13          | -29.84        |
| 482.271          | H               | -39.42                | -13          | -26.42        |
| 721.272          | H               | -32.77                | -13          | -19.77        |
| 925.527          | H               | -25.73                | -13          | -12.73        |

Channel 2: 462.6125MHz

| Frequency<br>MHz | Polarity<br>H/V | Emission Level<br>dBm | Limit<br>dBm | Margin<br>dBm |
|------------------|-----------------|-----------------------|--------------|---------------|
| 31.261           | V               | -42.73                | -13          | -29.73        |
| 126.351          | V               | -38.58                | -13          | -25.58        |
| 218.391          | V               | -40.52                | -13          | -27.52        |
| 481.280          | V               | -39.46                | -13          | -26.46        |
| 732.202          | V               | -42.83                | -13          | -29.83        |
| 925.726          | V               | -31.63                | -13          | -18.63        |
| 32.172           | H               | -39.62                | -13          | -26.62        |
| 82.389           | H               | -41.37                | -13          | -28.37        |
| 237.371          | H               | -38.61                | -13          | -25.61        |
| 421.271          | H               | -42.36                | -13          | -29.36        |
| 627.902          | H               | -38.66                | -13          | -25.66        |
| 925.716          | H               | -31.73                | -13          | -18.73        |



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## Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Channel 3: 462.6625MHz

| Frequency<br>MHz | Polarity<br>H/V | Emission Level<br>dBm | Limit<br>dBm | Margin<br>dBm |
|------------------|-----------------|-----------------------|--------------|---------------|
| 31.251           | V               | -38.46                | -13          | -25.46        |
| 127.472          | V               | -44.72                | -13          | -31.72        |
| 226.342          | V               | -42.12                | -13          | -29.12        |
| 463.827          | V               | -39.64                | -13          | -26.64        |
| 725.923          | V               | -44.73                | -13          | -31.73        |
| 925.743          | V               | -30.43                | -13          | -17.43        |
| 40.262           | H               | -42.48                | -13          | -29.48        |
| 263.372          | H               | -39.36                | -13          | -26.36        |
| 372.382          | H               | -37.27                | -13          | -24.27        |
| 475.843          | H               | -43.84                | -13          | -30.84        |
| 829.372          | H               | -45.28                | -13          | -32.28        |
| 925.754          | H               | -33.10                | -13          | -20.10        |

Above 1G

Channel 1: 462.5625MHz

| Frequency<br>MHz | Polarity<br>H/V | Emission Level<br>dBm | Limit<br>dBm | Margin<br>dBm |
|------------------|-----------------|-----------------------|--------------|---------------|
| 1850.858         | V               | -23.63                | -13          | -10.63        |
| 2312.219         | V               | -22.68                | -13          | -9.68         |
| 4157.664         | V               | -26.37                | -13          | -13.37        |
| 1386.264         | H               | -21.29                | -13          | -8.29         |
| 3703.723         | H               | -19.26                | -13          | -6.26         |
| 5864.443         | H               | -20.53                | -13          | -7.53         |



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Channel 2: 462.6125MHz

| Frequency<br>MHz | Polarity<br>H/V | Emission Level<br>dBm | Limit<br>dBm | Margin<br>dBm |
|------------------|-----------------|-----------------------|--------------|---------------|
| 1850.858         | V               | -21.37                | -13          | -8.37         |
| 2312.219         | V               | -22.53                | -13          | -9.53         |
| 5455.631         | V               | -26.37                | -13          | -13.37        |
| 2774.03          | H               | -20.34                | -13          | -7.34         |
| 3703.723         | H               | -21.53                | -13          | -8.53         |
| 5864.443         | H               | -23.62                | -13          | -10.62        |

Channel 3: 462.6625MHz

| Frequency<br>MHz | Polarity<br>H/V | Emission Level<br>dBm | Limit<br>dBm | Margin<br>dBm |
|------------------|-----------------|-----------------------|--------------|---------------|
| 2774.03          | V               | -23.63                | -13          | -10.63        |
| 3703.723         | V               | -20.51                | -13          | -7.51         |
| 5780.3           | V               | -22.74                | -13          | -9.74         |
| 2774.03          | H               | -21.62                | -13          | -8.62         |
| 3703.723         | H               | -19.78                | -13          | -6.78         |
| 5763.617         | H               | -23.93                | -13          | -10.93        |

Note: Margin = Emission level – Limit.

Remark:

- 1) Only record the worst case in the report.
- 2) The disturbance above points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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## 8 Photographs

### 8.1 Test Setup

Refer to Appendix - Test Setup Photo for FYCR2301000005AT.

### 8.2 EUT Constructional Details

Refer to Appendix – External and Internal Photos for FYCR2301000005AT.

- End of the Report -



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